MONITORING the FUTURE

NATIONAL SURVEY RESULTS ON DRUG USE 1975–2020

2020 Overview

Key Findings on Adolescent Drug Use

Lloyd D. Johnston Richard A. Miech Patrick M. O'Malley Jerald G. Bachman John E. Schulenberg Megan E. Patrick



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Lloyd D. Johnston, Ph.D. Richard A. Miech, Ph.D. Patrick M. O'Malley, Ph.D. Jerald G. Bachman, Ph.D. John E. Schulenberg, Ph.D. Megan E. Patrick, Ph.D.

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Summary of Key Findings

Monitoring the Future (MTF) is a long-term study of substance use and related factors among U.S. adolescents, college students, and adult high school graduates through age 60. It is conducted annually and supported by the National Institute on Drug Abuse. MTF findings identify emerging substance use problems, track substance use trends, publish many scientific findings, and help to inform policy and intervention strategies.

The key findings regarding use of various substances by 8th, 10th, and 12th graders surveyed across the coterminous U.S. in 2020 are summarized below. The year 2020 was an unusual year for the study in that data collection was halted earlier than usual, in March of that year, as a result of the emerging COVID-19 epidemic. This resulted in smaller samples being obtained that year. The previous year, 2019, was unusual in a different way—it was the year that the study was transitioning from using paper and pencil questionnaires in schools to having students use electronic tablets. A random half of all respondents in 2019 used the older mode of administration while the other half used tablets. How we dealt with these two disruptions to the ongoing series will be described below. It should be noted that the 2020 data collection occurred early in 2020, so it does not cover most of the period of the pandemic, nor of its effects.

The analyses and associated tables and figures that follow present substance use trends for all three grades separately, as well as trends in key attitudes (disapproval of use), beliefs (perceived risk of use), and perceived availability. An additional set of tables provides an overview of drug use trends for the three grades combined (Tables 1–4). This information gives a summary of the general nature of historical trends over the last several years, though it obscures any age or cohort effects that may be occurring. For simultaneous trends that are in the same direction and general magnitude across all three grades, these combined analyses provide greater statistical power to detect whether period trends are occurring.

In a number of cases we provide insight into the age, period, and cohort effects that underlie trends in use as well as in key attitudes and beliefs. MTF is designed to detect these effects, which can indicate what may be driving certain changes. Age effects are changes that occur as people get older and show up in most or all cohorts as they pass through a particular period in development; they are common during adolescence. Period effects are changes that are parallel over a number of years across multiple age groups (in this case, all three grades under study—8, 10, and 12). Cohort effects are consistent differences among birth cohorts (or in this case, class cohorts in secondary school), differences that are then maintained as the cohorts age.

Vaping Finally Reverses Course

The most important finding to emerge from the 2020 survey is that the dramatic increase in the 30-day prevalence of *vaping* by adolescents, observed in the two prior years, leveled and even reversed some in 2020¹ (Figure 18).

In 2017 we asked for the first time about the vaping of three specific substances—*nicotine*, *marijuana*, and *just flavoring*. As the section on vaping in this monograph shows, there were significant and substantial increases in 2018 in the annual and 30-day prevalence of vaping of all three substances, including some of the largest absolute increases MTF has ever tracked for any substance. In 2019 there were further very large and significant increases in each of the three grades in the annual and 30-day prevalence of vaping nicotine and of vaping marijuana.² Only vaping "just flavoring" showed an earlier reversal with decreases in 2019 in all three grades.

Over the two-year interval from 2017 to 2019, 30-day prevalence of vaping *marijuana* doubled or tripled in all three grades. For example, it rose from 4.9% in 2017 to 14.0% in 2019 among 12th graders.

Vaping *nicotine* also showed sharp increases over the same interval, with 30-day prevalence more than doubling in all three grades, rising from 11.0% in 2017 to 25.5% in 2019 among 12th graders. Given that nicotine is involved in most vaping, and given that nicotine is a

¹Vaping involves the inhalation of aerosols (sometimes including nicotine) using battery-powered devices such as e-cigarettes, "mods," JUULs, and e-pens. Prior to 2017 the questions on vaping asked about vaping in general, and then asked which of several substances were vaped on last use. Based on that question, 30-day prevalence of vaping fell significantly in each grade in 2016 to levels of 6%, 11%, and 13% in the respective grades. This marked the first reversal of vaping

prevalence, which grew rapidly from near zero prevalence in 2011 to one of the most common forms of adolescent substance use by 2015. Results from 2018 showed that this decline was not lasting.

²Prevalence refers to the percent of the study sample that reports using a drug once or more during a given period—i.e., in their lifetime, during the past 12 months [annual prevalence], or during the past 30 days.

highly addictive substance, this rise in vaping nicotine and vaping in general presents a serious threat to the hard-won progress that we have tracked since the mid-1990s in the reduction of cigarette smoking among adolescents.

The JUUL brand of vaping device was dominant in the nicotine vaping market, so we introduced a few questions specific to JUUL in 2019. The 30-day prevalence levels in the three grades were high in 2019, as expected; but they fell substantially in 2020 in all three grades—by about one-quarter in 8th grade (ns), about one-third in 10th grade, and about four-tenths in 12th grade. The 30-day prevalence rates in 2020 were 6.3% (-2.2%, ns), 12.3% (-6.3ss), and 12.9% (-7.9%) in the three grades, respectively. Perceived risk and disapproval of using JUUL increased significantly in the lower grades in 2020, and perceived availability declined in the lower grades.

Vaping of *marijuana* in the prior 30 days increased from 2018 to 2019 by 1.3, 5.6, and 6.5 percentage points in the three grades respectively (all highly significant), reaching 3.9%, 12.6%, and 14.0%. But in 2020 the trend lines for 10th and 12th grades—where use tends to be highest—reversed direction in vaping nicotine and vaping marijuana. While the declines were not large or statistically significant, at least they were declines. In 8th grade—where prevalence is much lower—the 30-day prevalence of any vaping and vaping nicotine specifically held steady in 2020; and their 30-day prevalence of vaping marijuana increased slightly.

Little Change in Marijuana or the Three Indexes of Overall Drug Use

In 2020, annual *marijuana* prevalence levels were 11.4% (-0.4ns), 28.0% (-0.8ns), and 35.2% (-0.5ns) for 8^{th} , 10^{th} , and 12^{th} graders. None of these changes were significant. In 2020, *daily marijuana* rates decreased slightly in the lower two grades and were at 1.1% (-0.2ns), 4.4% (-0.3ns), and 6.9% (+0.5ns) for 8^{th} , 10^{th} , and 12^{th} graders.

Synthetic marijuana use in the past 12 months decreased significantly in 8th grade in 2020 from 2.7% to 1.6% (s), and use declined a little in the upper grades (ns). Since first being measured in 2011 in 12th grade, use has fallen by more than two-thirds.

Annual use of *any illicit drug*, which tends to be driven by marijuana—by far the most prevalent of the illicit drugs, did not change significantly in any grade in 2020. Since 2006 there has been rather little systematic change in this index.

The index of any illicit drug other than marijuana showed no significant change in lifetime, annual, or 30-day prevalence in 2020. It has shown a very gradual decline since 2001 when past 12-month use for the three

grades combined was 16% compared to 2020 when it was 9%.

Few Illicit Drugs Showing Declines in Use

Relatively few drugs exhibited a significant decline in use in 2020, although the use of most drugs is well below the peak levels recorded by the survey in previous years.

Annual prevalence of *crystal methamphetamine* declined significantly at 12^{th} grade—the only grade in which it is asked—by 0.6% to 0.0% (sss).

Narcotics other than heroin, a particularly important class of drugs in recent years, will be discussed below under psychotherapeutic drugs.

Use of Most Illicit Drugs Held Steady in 2020

The MTF study tracks many classes of drugs and the majority of them held relatively steady among secondary school students in 2020. These included *LSD*, *hallucinogens other than LSD*, *MDMA* (ecstasy, Molly), *cocaine*, *crack*, *heroin* (overall, and when used with or without a needle), *Oxycontin*, *amphetamines* (taken as a class), *Ritalin*, *Adderall*, *sedatives* (reported at 12th grade only), *tranquilizers*, *methamphetamine*, *Rohypnol*, *GHB*, *Ketamine*, and *steroids*.

Annual prevalence for *salvia* showed no change in 2020 with an annual prevalence of 0.8% for all grades combined. It appears that the use of this drug—which is not an illicit drug—is close to ending.

While not strictly speaking illicit drugs, over the counter *cough and cold medications* used to get high (most of which contain dextromethorphan) increased nonsignificantly in each of the three grades but increased significantly for the three grades combined in 2020 to an annual prevalence of 3.7% (+0.9%).

Psychotherapeutic Drugs

Use of *psychotherapeutic drugs* outside of medical supervision warranted special attention as a substantial part of the overall U.S. drug problem in the 2000s. This was in part due to increases in nonmedical use of many prescription drugs over that period, and in part due to the fact that use of many of the street drugs declined substantially after the mid- to late-1990s.

It seems likely that young people are less concerned about the dangers of using these prescription drugs outside of medical regimen because they are widely used for legitimate purposes. (Indeed, the low levels of perceived risk for sedatives and amphetamines observed among 12th graders illustrate this point.) Also, many prescription psychotherapeutic drugs are now being advertised directly to the consumer, which implies that they are both widely used and safe.

Fortunately, the use of most of these drugs by youth has declined. The proportion of 12th graders misusing *any of these prescription drugs* (i.e., amphetamines, sedatives, tranquilizers, or narcotics other than heroin) in the prior year continued its gradual decline in 2020 (-1.1 percentage points [ns]) to 7.6%, down from a high of 17% in 2005, when this index was first calculated.

Use of *narcotics other than heroin* without a doctor's orders (reported only for 12th grade) continued a decline begun after 2009, when annual prevalence was 9.2%; it was 2.1% after a nonsignificant drop of 0.6 percentage points in 2020.

Given the epidemic of narcotics misuse in older populations along with concurrent rise in medical emergencies and overdose deaths, it is particularly good news that young people are moving away from the use of these drugs. This is good news not only because they will be less vulnerable to tragedies resulting from the use of these drugs during adolescence, but also because they may well take their more cautious behaviors with them into their twenties, thirties, and beyond—ages in which overdose deaths are currently most prevalent. In other words, a cohort effect may emerge.

Several Forms of Tobacco Use Continued to Decline, but Not Cigarettes

Cigarette smoking has had a long and very substantial decline since the mid-1990s, but showed almost no further decline in 2020 in the two lower grades and even a nonsignificant increase in 30-day prevalence among 12th graders (+1.8%). For the three grades combined, 30-day prevalence of cigarette use has fallen by 85%. Daily prevalence has fallen by 90% and current half-pack-a-day prevalence by 93% since their peaks in the 1990s. In 2020 current prevalence of half-pack-a-day smoking stood at just 0.1% (down 0.2 percentage points, s) for 8th graders, 0.6% (down 0.0 percentage points, ns) for 10th graders, and 1.4% (up 0.4 percentage points, ns) for 12th graders. Because of the strong cohort effect that we have consistently observed for cigarette smoking, we have predicted that use at later ages will continue to show declines, as the lighter-smoking cohorts of 8th and 10th graders grow older.

In 2020 the *initiation* of *cigarette* use did not continue its long-term and extremely important decline in 8th and 12th grades. Lifetime prevalence rose nonsignificantly in those grades to 11.5% (+1.5% ns) and 24.0% (+1.7% ns), respectively. The long-term decline in the initiation of smoking is an important reason for the large declines in current use, at least up until 2020. The proportion of students who have ever tried cigarettes had fallen from peak levels reached in 1996 or 1997 by roughly four

fifths, three quarters, and three fifths in 8th, 10th, and 12th grades, respectively.

Overall increases in perceived risk and disapproval appear to have contributed to the downturn in cigarette use. Perceived risk of smoking one or more packs of cigarettes per day increased substantially and steadily in all grades from 1995 through 2004, with 62%, 68%, and 74% of 8th, 10th, and 12th graders seeing great risk in 2004. Since then, changes have been small and uneven, and the corresponding figures in 2020 were only slightly changed, at 64% and 69% in 8th and 10th grades (data were insufficient to produce a 2020 estimate for 12th grade). Disapproval of smoking one or more packs of cigarettes per day has increased somewhat steadily in all three grades since 1996 and has reached very high levels. In 2020 disapproval stood at 88% and 86% in 8th and 10th grades. (There were an insufficient number of cases at 12th grade in 2020 to make an estimate.)

In 2020, lifetime prevalence of cigarettes increased in 8th grade for the second year in a row by 1.5 percentage points (ns) to 11.5%. In 10th grade it decreased slightly by 0.3 percentage points (ns) to 13.9%, and in 12th grade it increased for the first time since 1996 by 1.7 percentage points (ns) to 24.0% ns.

It seems likely that some of the long-term attitudinal change surrounding cigarettes is attributable to the considerable adverse publicity aimed at the tobacco industry in the 1990s, as well as a reduction in cigarette advertising and an increase in antismoking campaigns reaching youth.

Various other attitudes toward smoking became more unfavorable during that interval as well, though most have since leveled off. For example, among 8th graders, the proportions saying that they "prefer to date people who don't smoke" rose from 71% in 1996 to 81% by 2004, about where it remained through 2020. Similar changes occurred in 10th and 12th grades. Thus, at the present time, smoking is likely to make an adolescent less attractive to the great majority of potential romantic age-mates. Likewise, most of the other negative connotations of smoking and smokers have leveled off in the past few years after rising previously.

In addition to changes in attitudes and beliefs about smoking, price almost surely also played an important role in the decline in use. Cigarette prices rose appreciably in the late 1990s and early 2000s as cigarette companies tried to cover the costs of the 1998 Master Settlement Agreement, and as many states increased excise taxes on cigarettes. A significant increase in the federal tobacco tax passed in 2009 may have contributed to the continuation of the decline in use since then.

Most forms of *combustible* tobacco use other than cigarette smoking have been in decline in recent years.

Cigarillos. One consequence of the rise in cigarette prices is that it may have shifted some adolescents to less expensive alternatives, like cigarillos (little or small cigars), which had been taxed at a lower rate than cigarettes but were set at the same federal rate of taxation as cigarettes in the 2009 legislation dealing with tobacco products.³ It does appear, however, that the annual prevalence of using small cigars is in decline, with a long-term decline in use of flavored ones by 12th graders from 23% in 2010 to 7.7% in 2019. (Insufficient data in 2020.) Of note is the fact that the majority of adolescent users of small cigars in each grade smoke flavored ones.

Hookah. Annual prevalence of smoking tobacco using a hookah (water pipe) had been increasing steadily until 2014 among 12th graders (8th and 10th graders are not asked about this practice), reaching 23% in 2014; but use has been declining steadily since, by almost thee-quarters as of 2019. (The sample size was inadequate to make an estimate for 2020.)

Smokeless tobacco. From the mid-1990s to the early 2000s, smokeless tobacco use declined substantially, but a rebound in use developed from the mid-2000s through 2010. Since 2010, prevalence levels have declined considerably in all three grades. Perceived risk and disapproval appear to have played important roles in the earlier decline in smokeless tobacco use. In all three grades, perceived risk and disapproval rose fairly steadily from 1995 through 2004, accompanied by the declines in use. However, there was not much change in use between 2004 and 2010, suggesting that other factors may have led to the increases in smokeless tobacco use during that time interval; perhaps including increased promotion of these products, a proliferation of types of smokeless tobacco products available, and increased restrictions on places where cigarette smoking is permitted. The decline in smokeless tobacco use since 2010 may be attributable, at least in part, to the 2009 increase in federal taxes on tobacco. Perceived risk has been fairly stable since around 2014.

Snus is a form of smokeless tobacco. Its annual prevalence is down considerably from when it was first measured in 2011 (or 2012 in the lower grades). It declined significantly in 2019 at 12th grade from 4.7% to 2.7% (ss). In 2012 it was 7.9%. (Insufficient 12th grade data for estimates in 2020.)

Alcohol remains the substance most widely used by today's teenagers. After a long period of decline among adolescents, the use of alcohol appears to be stabilizing. Low points in use were observed earliest among the 8th graders, subsequently followed by the 10th graders, and then the 12th graders, indicating a likely cohort effect. In 2020 there were no further significant declines observed in any of the three grades under study in lifetime, annual, 30-day, daily, or five or more drinks-in-a-row prevalence rates. Despite substantial declines in prevalence longer term, there has been some gradual increase in the prevalence of binge drinking over the past two years in all grades. By the end of high school nearly two out of every three students in 2020 (61.5%) had consumed alcohol (more than just a few sips) at some time in their lives and a quarter (26%) had done so by 8th grade.

Alcohol use began a substantial decline in the 1980s. To some degree, alcohol trends have tended to parallel the trends in illicit drug use. These include a modest increase in *binge drinking* (defined as having five or more drinks in a row at least once in the past two weeks) in the early to mid-1990s, though it was a proportionally smaller increase than was seen for cigarettes and most of the illicit drugs. Fortunately, binge drinking rates leveled off in the early 2000s, just about when the illicit drug rates began to turn around, and in 2002, a drop in drinking and drunkenness resumed in all grades. Gradual declines in 30-day prevalence continued in the upper grades into 2019, which marked the lowest levels for alcohol use and drunkenness ever recorded by the survey in the three grades combined. In 2020, 30-day alcohol use for the three grades combined increased significantly.

Prior to 2019, lifetime prevalence and annual prevalence of alcohol use for the three grades combined both declined by roughly 40-45% from the peak levels of use reached in the mid-1990s; 30-day prevalence was down by about one-half since then; and daily prevalence by three-fourths. These were dramatic declines for such a culturally ingrained behavior and good news to parents.

However, the decline in alcohol use halted by 2019 in all three grades. And in 2020 there were significant increases in lifetime, annual 30-day, and current daily alcohol prevalence for the three grades combined. This may herald the end of the longer-term decline in adolescent alcohol use.

Alcohol Use Stabilizes

³ U.S. Centers for Disease Control & Prevention (CDC), <u>Federal and State Cigarette Excise Taxes –United States</u>, 1995-2009, 57 <u>MORBIDITY & MORTALITY WEEKLY RPT. 524</u> (May 22, 2009).

Introduction

Monitoring the Future (MTF) is a long-term study of substance use and related factors among U.S. adolescents, college students, and adult high school graduates through age 60. It has been conducted annually by the University of Michigan's Institute for Social Research since its first data collection in 1975 and is supported under a series of investigator-initiated, competitive research grants from the National Institute on Drug Abuse.

The need for an ongoing study such as MTF is clear. Substance use by young people and adults in the U.S. has proven to be a rapidly changing phenomenon, requiring frequent assessments and reassessments. Since the mid-1960s, when illicit drug use burgeoned in the general youth population, it has remained a major concern for the nation. Smoking, drinking, and illicit drug use are leading causes of morbidity and mortality during adolescence as well as later in life. How vigorously the nation responds to adolescent substance use, how accurately it identifies the emerging substance abuse problems, and how well it comes to understand the effectiveness of policy and intervention efforts largely depend on the ongoing collection of valid and reliable data. MTF is uniquely designed to generate such data, providing an accurate picture of what is happening in this domain of behavior and why. The study has served this function well for the past 46 years. Policy discussions in the scientific literature and media, in government, education, public health institutions, and elsewhere have been informed by the ready availability of extensive and consistently accurate information from the study relating to a large and evergrowing number of substances that can be abused. Similarly, MTF findings help to inform organizations and agencies that provide prevention and treatment services.

The first published results of adolescent substance use across the major drugs based on the 2020 survey are presented in this volume. Recent trends in the use of licit and illicit drugs are emphasized, as well as trends in the levels of perceived risk of harm and personal disapproval associated with each drug. [This project]MTF has shown these beliefs and attitudes to be particularly important in explaining current trends in use, and even in predicting future ones. In addition, trends in the perceived availability of each drug are presented, which at times have proven important to explaining changes in usage levels for certain drugs.

Important Limitations of the 2020 Survey

In 2020 MTF surveyed 11,821 students in 8th, 10th, and 12th grades enrolled in 112 secondary schools nationwide. This was a much smaller national sample than in previous years because the COVID-19 pandemic arrived early in 2020 and the University of Michigan halted research studies involving face-to-face contact on March 15 of that year.

This resulted in a halt in data collections well before the usual halfway point in this annual data collection cycle.¹ A careful analysis of how representative the students in the 112 secondary schools in the attained sample were showed that they were quite representative after weighting.2 They closely matched the demographics of those drawn in recent years up through 2019 as well as on prevalence levels for key drugs that generally were not changing. Therefore, we treat them here as equivalent to a random sample of what we would have collected with a full data collection. One factor contributing to the 2020 data being representative is that schools were not systematically diffferent as a function of time of data collection. Indeed, they were spread out in time so that the national staff of field interviewers around the country. who conducted the data collections at each school, could spread their workloads across time.

The confidence intervals around each estimate are larger with a smaller sample of respondents. Because of this, we report here only the data points for 2020 for which there are a reasonable number of cases. The surveys in each grade use several different questionnaire forms to permit the inclusion of a larger number of topics and questions. Some questions are in only one form, but many are in two or more forms. To keep the numbers of cases on which each estimate is based reasonable in 2020, we generally do not report data based on one-sixth of the 2020 sample.

When a 2020 data point is omitted from a trend line in any of the figures in this monograph, it means that the case count for that entry was insufficient to meet the criteria just described. Thus, lack of an entry in 2020 indicates that there were what we judged to be an insufficient number of cases to make a reasonable estimate.

¹ In 2020 MTF weighted responses by region of the country (West, Midwest, Northeast and South) and, within each region, by metropolitan/non-metropolitan status. After this weighting the impact of these factors on the analysis is proportional to their size in the nation. Responses were not weighted by substance use levels or demographics.

² See the appendix to: Miech R, Leventhal A, Johnston L, O'Malley PM, Patrick ME, Barrington-Trimis J. <u>Trends in Use and Perceptions of Nicotine Vaping Among US Youth From 2017 to 2020.</u> *JAMA Pediatr.* Published online December 15, 2020.

Age, Period, and Cohort Effects

MTF is designed to detect age effects, period effects (also referred to as secular trends), and cohort effects in substance use and also in related attitudes and beliefs. Age effects (similar changes at similar ages across multiple class cohorts) are common during adolescence, and we typically find that use, as well as positive attitudes and beliefs about use, increase across 8th, 10th, and 12th grades. When historical changes in substance use (and perhaps related attitudes and beliefs) are parallel over some time interval across all three grades, they reflect period effects, which are also common.

Cohort effects pertain to differences in substance use and related attitudes and behaviors among those born at different times that are maintained as the cohorts age (in this case class-in-school cohorts, which are strongly correlated with birth cohorts). Such cohort effects sometimes drive changes in substance use prevalence at the population level. For example, much of the decline in the prevalence of U.S. cigarette smoking has its roots in youth cohorts that did not take up smoking and then continued to abstain from smoking as they aged into adulthood. As subsequent youth cohorts continued to avoid smoking and then grew older, these cohorts contributed to a further decline in the overall population prevalence of smoking. Cohort effects can also act in the opposite direction, with newer cohorts increasingly taking up a substance and continuing to have greater use of it than previous cohorts as they get older. One important contribution of the MTF study has been the specification of cohort effects that emerged starting in the early 1990s, when an increase in youth substance use occurred for many drugs.

MTF allows detection of cohort effects at an early age through comparison of substance use prevalence of 8^{th} , 10^{th} , and 12^{th} graders relative to each other. Often 8^{th} grade substance use is a bellwether, and year-to-year changes that are unique to 8^{th} grade can signify an emerging increase or decrease in substance use at later grade levels with some time lag, as the cohorts in 8^{th} grade pass into the upper grades.

Tables and Figures in This Volume

The analyses and associated tables that follow present substance use trends over time for each grade separately, as well as trends in key attitudes, beliefs, and perceived availability. In a number of cases we provide insight into

³ Prevalence refers to the proportion or percentage of the sample reporting use of the given substance on one or more occasions in a given time interval—e.g., in their lifetime, in the past 12 months, or in the past 30 days. For most drugs, the prevalence of daily use refers to reported use on 20 or more occasions in the past 30 days, except for cigarettes and smokeless tobacco, for which actual daily use is measured, and for binge drinking, defined as having 5+ drinks on at least one occasion in the prior two weeks.

the age and cohort effects and secular trends that underlie trends in use and in key attitudes and beliefs.

An additional set of tables provides an overview of drug use trends for the three grades *combined* (Tables 1–4). These tables summarize the general nature of secular trends over the last several years, though it obscures any age or cohort effects that may be occurring. Also, for simultaneous trends that are in the same direction and magnitude across all three grades, these combined analyses provide greater statistical power to detect whether secular trends are statistically significant.

Sections of This Volume

A synopsis of the design and methods used in the study follows this introductory section. We then provide a separate section for each individual drug class, including figures that show trends in the overall proportions of students at each grade level (a) using the drug, (b) seeing a "great risk" associated with its use (perceived risk), (c) disapproving of its use (disapproval), and (d) saying that it would be "fairly easy" or "very easy" to get if they wanted to (perceived availability). For 12th graders, annual data are available since 1975 and for 8th and 10th graders since 1991, the first year they were included in the study.

The tables at the end of this report provide the statistics underlying the figures; in addition, they present trend data on lifetime, annual, 30-day, and (for selected drugs) daily prevalence.³ For the sake of brevity, we present these prevalence statistics here in tabular form only for the 1991–2020 interval, but statistics on 12th graders going back to 1975 are available in other MTF publications on the MTF website. For each prevalence period, the tables indicate which one-year changes between 2019 and 2020 are statistically significant. (In the text below, 's' indicates $p \le .05$, 'ss' indicates $p \le .01$, 'sss' indicates $p \le .001$, and 'ns' indicates not statistically significant). The graphic depictions of multiyear trends often reveal gradual change that may not reach significance in a given one-year interval but nevertheless may be shown to be real over a longer time interval.

Other Publications from the Study

An extensive analysis of the study's findings on secondary school students may be found in *Volume I*, the second publication in this series, published at the end of May each year. Volume I contains a more detailed description of the study's methodology, as well as

⁴ The most recent publication of *Volume I* is Miech, R. A., Johnston, L. D., O'Malley, P. M., Bachman, J. G., Schulenberg, , J. E, & Patrick, M. E. (2020). Monitoring the Future national survey results on drug use, 1975–2019: Volume I, Secondary school students. Ann Arbor, MI: Institute for Social Research, University of Michigan, 591pp.

chapters on grade of initiation, attitudes toward drugs, the social milieu, and a summary of other publications from the study that year (mostly journal articles). The most recent such volume, as well as earlier editions, are always available in the Publications section of the MTF website.

MTF's findings on American college students and adults through age 60 are not covered in this early *Overview* report because the follow-up data from those populations become available for analysis later in the year. Those findings are covered in *Volume II*, the third monograph in this annual series, published at the end of July each year.⁵

Two annual MTF Occasional Papers are published each year in conjunction with *Volumes I* and *II*, providing trends in use for various demographic subgroups of adolescents and separately of young adults.⁶

A fourth monograph, *HIV/AIDS: Risk and Protective Behaviors Among Young Adults*, dealing with national trends in HIV/AIDS-related risk and protective behaviors among young adults 21 to 30 years old, was added to the series beginning in 2010.⁷ It is published in October of each year. From 2005 to 2009, these findings had been reported as part of *Volume II*, prior to their being reported in a separate monograph.

Information on the study, including its latest press releases, a listing of all publications, and freely accessible reports may be found at www.monitoringthefuture.org. Volumes are immediately available there upon publication. Most publications are also entered into the University of Michigan's repository of publications (https://deepblue.lib.umich.edu/). For the publication years prior to 2010, the volumes in these annual series also are available from the NIDA Drug Publications Research Dissemination Center (877-NIDA-NIH, drugpubs.drugabuse.gov).

found in. Johnston, L. D., Schulenberg, J.E., O'Malley, P. M., Bachman, J. G., Miech, R. A., & Patrick, M. E. (2020). *Demographic subgroup trends among young adults in the use of various licit and illicit drugs 1988-2018* (Monitoring the Future Occasional Paper No. 95). Ann Arbor, MI: Institute for Social Research, University of Michigan, 115 pp.

⁷The most recent publication in the *HIV/AIDS monograph series* is Johnston, L. D., O'Malley, P. M., Bachman, J. G., Schulenberg, J. E., Patrick, M. E., & Miech, R. A. (2020). *HIV/AIDS: Risk and protective behaviors among adults ages 21-30 in the U.S.*, 2004–2019. Ann Arbor, MI: Institute for Social Research, University of Michigan, 93 pp.

⁵ The most recent publication of *Volume II* is Schulenberg, J. E., Johnston, L. D., O'Malley, P. M., Bachman, J. G., Miech, R. A., & Patrick, M. E. (2020). *Monitoring the Future national survey results on drug use, 1975–2019: Volume II, College students & adults ages 19–60.* Ann Arbor, MI: Institute for Social Research, University of Michigan, 476 pp.

⁶The most recent Occasional Paper on subgroup trends among adolescents Johnston, L. D., Miech, R. A., O'Malley, P. M., Bachman, J. G., Schulenberg, J. E., & Patrick, M.E. (2020). *Demographic subgroup trends among adolescents in the use of various licit and illicit drugs 1975-2019* (Monitoring the Future Occasional Paper No. 94). Ann Arbor, MI: Institute for Social Research, University of Michigan, 821 pp.Subgroup trends among young adults may be

Study Design and Methods

A main component of Monitoring the Future's data collection involves a series of large, annual surveys of nationally representative samples of public and private secondary school students throughout the coterminous United States. Every year since 1975, such samples of 12th graders have been surveyed. In 1991, the study was expanded to include comparable, independent national samples of 8th and 10th graders. The year 2020 marked the 46th survey of 12th graders and the 30th survey of 8th and 10th graders.

Sample Sizes

In 2020 about 11,800 students in 112 secondary schools participated in the study, with sample sizes of 3,161 in 8th grade, 4,890 in 10th grade, and 3,770 in 12th grade. Multiple questionnaire forms are distributed randomly at each grade level to increase coverage of attitudinal and behavioral domains. Six different forms are used at 12th grade and four forms at 8th and 10th grade. To reduce burden on the respondents, not all questions are contained in all forms. Thus, the number of cases upon which a particular statistic is based may be less than the total sample size in that grade. The tables contain notes on the number of forms used for each statistic if less than the total sample is used. Because of the early termination of the field efforts in 2020 due to the COVID-19 pandemic, as described in the Introduction to this volume, the numbers of cases are considerably lower for 2020.

Field Procedures

University of Michigan staff members administer the questionnaires to students, usually in the student's classroom during a regular class period. Participation is voluntary. Parents or other primary caregivers are notified well in advance of the survey administration and are provided the opportunity to decline their child's participation.

With the Spring 2019 data collection, we initiated the formal transition of the MTF in-school surveys from paper surveys to surveys completed on electronic tablets. In 2019 MTF staff administered the surveys using electronic tablets for a randomly-selected half of all schools; the traditional paper-and-pencil questionnaires were used for the other half. This design allowed us to assess the extent and nature of any mode effects. In Spring of 2020 all MTF in-school surveys were administered using tablets. (In 2017 and 2018 pilot tests had been conducted of over 4,000 students in 24 schools throughout the country before we moved to the use of tablets in the main study.)

The 8th and 10th grade questionnaires are completely anonymous, and in 12th grade they are confidential (name and address information is gathered separately from the 12th grade questionnaire to permit the longitudinal follow-up surveys of random subsamples of participants after high school). Extensive procedures are followed to protect the confidentiality of the participants and their data. All procedures are reviewed and approved on an annual basis by the University of Michigan's Institutional Review Board (IRB) for compliance with federal guidelines for the treatment of human subjects.

Measures

A standard set of three questions is used to determine usage levels for most of the drugs. For example, respondents are asked, "On how many occasions (if any) have you used marijuana... (a)...in your lifetime? (b)...during the last 12 months? (c)...during the last 30 days?" Each of the three questions is answered on the same answer scale: 0, 1–2, 3–5, 6–9, 10–19, 20–39, and 40 or more occasions.

For the psychotherapeutic drugs (amphetamines, sedatives [barbiturates], tranquilizers, and narcotics other than heroin), respondents are instructed to include only use "...on your own—that is, without a doctor telling you to take them." A similar qualification is used in the

In the tables and figures in this volume, the 2019 estimates of prevalence of use of the various drugs are based on combined estimates from the half sample using traditional paper-and-pencil responses, and those from the half sample who used tablets. However, there were some differences found by mode of administarion in the results for three other sets of variables that are reported extensively in this volume for each class of drugs disapproval, perceived risk, and availability. Therefore, for those three sets of variables only the responses of the half sample using tablets in 2019 are reported here, in order to avoid our mistaking any mode effects for real changes between 2019 and 2020. In 2020 all respondents used tablets, so we are comparing results for both years based on data collected by tablet. We opted to use the full sample in 2019 because differences that year in substance use prevalence across the two modes were found to be negligible. In 2020 all respondents used tablets so the results on these variables are based on the full sample that year, and the previously reported data for 2019 have been replaced with data from just the half sample who responded by tablet that year, in order to remove any mode effect from the trends.in use.

¹ Miech, R., Couper, M. P., Heeringa, S. G., & Patrick, M. E. (2020). <u>The impact of survey mode on U.S. national estimates of adolescent drug prevalence: Results from a randomized-controlled study.</u> Addiction.

question on use of anabolic steroids, OxyContin, Vicodin, and several other drugs.

For cigarettes, respondents are asked two questions about use. First, they are asked, "Have you ever smoked cigarettes?" The answer categories are "never," "once or twice," "occasionally but not regularly," "regularly in the past," and "regularly now." The second question asks, "How frequently have you smoked cigarettes during the past 30 days?" The answer categories are "not at all," "less than one cigarette per day," "one to five cigarettes per day," "about one-half pack," "one pack," "one and one half packs," and "two packs or more per day."

Smokeless tobacco questions parallel those for cigarettes. There are also questions about vaping, small cigars, large cigars, and a number of other tobacco products. In general, their use is asked on a prevalence/frequency scale for either the last 12 months or the last 30 days. Beginning in 2017 respondents are asked separate questions about vaping nicotine, vaping marijuana, and vaping "just flavoring."

Alcohol use is measured using the three questions illustrated above for marijuana. A parallel set of three questions asks about the frequency of being drunk. (Binge drinking is assessed by asking how many times [if any] they had five or more drinks in a row over the past two weeks.) Extreme binge drinking, also called high-intensity drinking, among 12th graders is assessed with similar questions about consuming 10 or more and 15 or more drinks in a row in the past two weeks. Among 8th and 10th graders, it is assessed using only the question about 10 or more drinks.

In general, we try to keep measures consistent across time. When a change is warranted, we usually splice the older and newer measures for at least one year to permit an assessment of whether the change (usually a wording change) seemed to have any effect on reported prevalence levels.

Perceived risk is measured by the question, "How much do you think people risk harming themselves (physically or in other ways), if they..." try or use a drug—for example, "...try marijuana once or twice." The answer categories are "no risk," "slight risk," "moderate risk," "great risk," and "can't say, drug unfamiliar." Parallel questions then ask about risk in using the same drug "occasionally" and "regularly." In the 8th and 10th grade questionnaires, a fourth category—"can't say, drug unfamiliar"—is provided and included in the denominator in the calculation of percentages. That way we have an accurate estimate of the percentage of all respondents who think there is a great risk involved in using the drug.

Disapproval is measured by the question "Do YOU disapprove of people doing each of the following?" followed by "trying marijuana once or twice," for example. (In 12th grade "...people 18 or older"...is specified in the question stem.) Answer categories are "don't disapprove," "disapprove," and "strongly disapprove." As with perceived risk, in the 8th and 10th grade questionnaires, a fourth category—"can't say, drug unfamiliar"—is provided and included in the denominator in the calculation of percentages.

Perceived availability is measured by the question "How difficult do you think it would be for you to get each of the following types of drugs, if you wanted some?" Answer categories are "probably impossible," "very difficult," "fairly difficult," "fairly easy," and "very easy." For 8th and 10th graders, an additional answer category—"can't say, drug unfamiliar"—is provided and included in the calculation of percentages.

Because of the lower case count in 2020 due to the field operation being stopped early because of the COVID-19 epidemic that year, we have had to omit some 2020 estimates from the figures and tables in this volume. Specifically, data are not presented on those questions that were given to fewer than one-sixth of the participating sample. Nearly all of these omissions occur in the graphs dealing with perceived risk, disapproval, and perceived availability—three of the four elements graphed for each drug class. A footnote to all figures reminds the reader of this.

MTF routinely reports three different indexes of illicit drug use—any illicit drug,¹ any illicit drug other than marijuana, and any illicit drug including inhalants. In this section we discuss only the first two; the statistics for all three may be found in Tables 5–7.

In order to make direct comparisons over time, we have generally kept the definitions and measurement of these indexes constant. The levels of prevalence of each of the indexes could be somewhat affected by the inclusion of newer substances. Typically, the effects would be minimal, primarily because most individuals using newer ones are also using at least one of the more prevalent drugs included in the indexes. The major exception has been inhalants, the use of which is quite prevalent in the lower grades, so in 1991 a special index that includes inhalants was added.

Trends in Use

In the late 20th century, U.S. adolescents reached extraordinarily high levels of illicit drug use by U.S. as well as international standards. The trends in *lifetime* use of *any illicit drug* are shown in the first (upper left) panel of Figure 1.² In 1975, when MTF began, the majority of young people (55%) had used an illicit drug by the time they left high school. This figure rose to two thirds (66%) by 1981 before a long, gradual decline to 41% by 1992—the low point for 12th graders. After 1992—in what we have called the "relapse phase" in the drug epidemic—the proportion using any illicit drug in their lifetime rose considerably to the most recent high point of 55% in 1999; it then declined gradually to 47% in 2009, and has remained between 47% and 50% since 2011.

Trends for *annual* (i.e., last 12 month), as opposed to lifetime, prevalence are shown in the second (upper right) panel. They are quite parallel to those for lifetime prevalence, but at lower levels. Among 8th graders, a gradual and continuing falloff occurred after 1996. Peak rates since 1991 were reached in 1997 in the two upper grades and the rates then declined for some years. After 2006 or 2007, the upper grades showed increasing use that continued

for about five years. Then, after 2013 there was a three-year period of decreasing use among 10th and 12th graders, which was followed after 2016 by a period of increasing use in 8th and 10th grades. There are no significant 1-year changes in 2020 in any of the four panels in Figure 1. In the last five years (2015-2020), any illicit drug other than marijuana (third panel) declined significantly for 10th and 12th grades, with no significant change for 8th grade.

Because marijuana is much more prevalent than any other illicit drug, trends in its use tend to drive the index of any illicit drug use. Thus we also report an index that excludes marijuana and shows the proportions of students who use any of the other illicit drugs. The proportions who have used any illicit drug other than marijuana in their lifetime are shown in the third panel (lower left) of Figure 1. In 1975 over one third (36%) of 12th graders had tried some illicit drug other than marijuana. This figure rose to 43% by 1981, then declined for over a decade to a low of 25% by 1992. An increase followed in the 1990s as the use of a number of drugs rose steadily, and it reached 30% by 1997. (In 2001 it was 31%, but this apparent upward shift in the estimate was an artifact due to a change in the question "other hallucinogens" wording for tranquilizers.3) Lifetime prevalence among 12th graders then fell slightly to 24% by 2009, before dropping to 18% in 2020. The fourth (lower right) panel presents the annual prevalence data for any illicit drug other than marijuana, which shows a pattern of change over the past few years similar to the index of any illicit drug use, but with less pronounced change since 1991.

The annual prevalence of any illicit drug other than marijuana dropped fairly steadily and gradually in all three grades in recent years, reaching 11% among 12th graders by 2020. In the past few years the three grade levels have been converging in both their lifetime and annual rates of use of illicit drugs other than marijuana, with 12th graders continuing to decline in use and 8th graders showing some increase.

¹ Footnote 'a' to Tables 5 through 8 provides the exact definition of any illicit drug.

²This is the only set of figures in this Overview presenting lifetime use statistics. Lifetime statistics for all drugs may be found in Table 5.

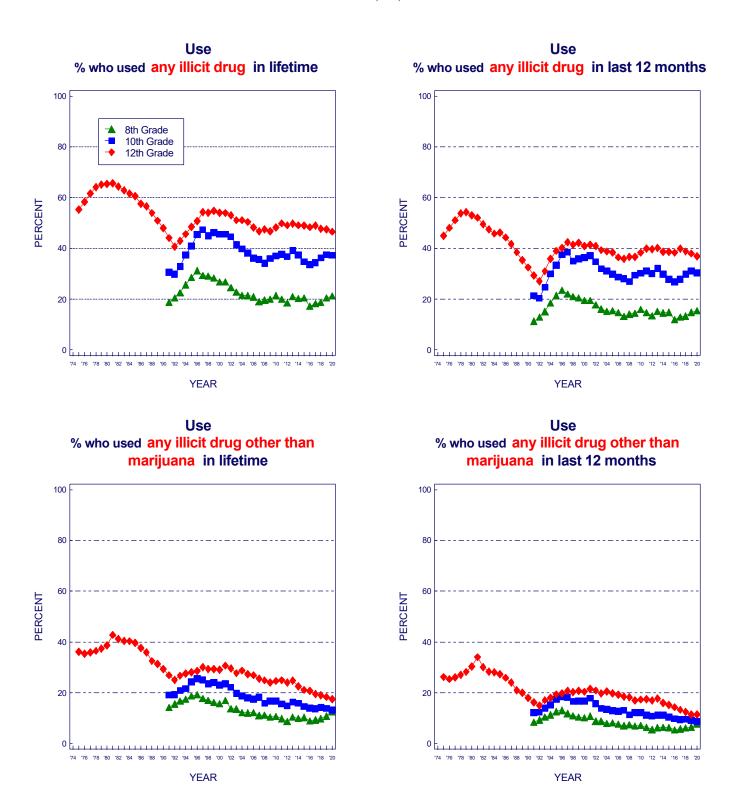
³ The term psychedelics was replaced with hallucinogens, and "shrooms" was added to the list of examples, resulting in somewhat more respondents indicating use of this class of drugs. For tranquilizers, Xanax was added to the list of examples given, slightly raising the reported prevalence of use.

Overall, these data reveal that while use of individual drugs (other than marijuana) may fluctuate widely, the proportion using *any* of them is much more stable. In other words, the proportion of students prone to using such drugs and willing to cross the normative barriers to such use changes more gradually. The prevalence for each individual drug, on the other hand, reflects many more rapidly changing determinants specific to that drug, such as how widely its psychoactive potential is recognized, how favorable the reports of its supposed benefits are, how risky it is seen to be, how acceptable it is in the peer group, how accessible it is, and so on.

Figure 1

Any Illicit Drug and Any Illicit Drug Other than Marijuana: Trends in Lifetime and Annual Use

Grades 8, 10, 12



 ${\it Source}. \ \ {\it The Monitoring the Future study}, the \ {\it University of Michigan}.$

^{*}Note: for details on the 2019 estimates see note at the end of the Figures.

^{**}In 2001, a revised set of questions on other hallucinogen use and tranquilizer use were introduced. In 2013, a revised set of questions on amphetamine use was introduced. Data for any illicit drug other than marijuana were affected by these changes.

Marijuana has been the most widely used illicit drug throughout MTF's 46 years. It can be taken orally, mixed with food or drink, vaped, and smoked, including in concentrated forms such as hashish or honey oil. The great majority of recreational use in the U.S. has involved smoking it in rolled cigarettes ("joints"), in pipes or water pipes ("bongs"), or in hollowed-out cigars ("blunts"). More recently, methods include vaping in particular and eating as well as consuming different forms of resin extracts like hash oil, honey oil, or shatter—a solid form.

Trends in Use

Annual marijuana prevalence peaked among 12th graders in 1979 at 51%, following a rise that began during the 1960s. Then use declined fairly steadily to 22% by 1992—a decline of more than half. Use resurged in the 1990s, peaking in 1996 at 8th grade and in 1997 at 10th and 12th grades. Use levels in 2020 were slightly lower than they were in 1996-97, after a decline of about ten percentage points through 2007-2008 and some subsequent rebound, with little change in 2020.

Daily marijuana prevalence rose in all three grades in 2019, significantly so in the lower two grades, with further increase in 2020 only in grade 12 (Table 8). It is noteworthy that among 8th graders, it showed rather little change between 1996 and 2019. In 2020, in all three grades daily marijuana levels were at or near the highest level recorded since 1991 (1.1%, 4.4%, and 6.9%).

Marijuna *vaping* increased significantly and substantially in 2018 and 2019, but pretty much leveled in 2020 with no significant changes. Annual prevalence levels in 2020 were 8.1% (+1.1ns), 19.1% (-0.2ns) and 22.1% (+1.3ns) in the three grades (Table 6).

It is worth noting that overall annual marijuana use with any method (e.g. smoking, vaping, eating) did not significantly increase in 2019, despite the very large increase in marijuana vaping that year. These results suggest that teens may be using vaping as a supplement to traditional methods of use such as

smoking it. It is possible that teens may use vaping to increase the frequency and intensity of use, to the extent that vaping devices allow teens to use marijuana in locations where smoking it would carry high risk of getting caught (such as in school). The increase in daily marijuana use that year is consistent with this interpretation.

Perceived Risk

The proportion of students seeing great risk from regular marijuana smoking fell during the rise in use in the late 1970s and again during the subsequent rise in use in the 1990s. Indeed, for 10th and 12th grades, perceived risk declined a vear before use rose in the upturn of the 1990s, making perceived risk a leading indicator of change in use. (The same may have happened for 8th grade but our data do not start early enough to show it.) The decline in perceived risk halted in 1996 in 8th and 10th grades; the increases in use in 10th and 12th grades ended a year or two later, again making perceived risk a leading indicator of trends in use. From 1996 - 2000, perceived risk held fairly steady, and the decline in use in the upper grades stalled. After some decline prior to 2002, perceived risk increased a bit in all grades through 2004 accompanied by decreases in use. Since 2004 in 8th grade, 2005 in 12th grade, and 2008 in 10th grade, perceived risk has fallen substantially, presaging some resurgence in marijuana use lasting three to five years; however, no increase in perceived risk preceded the recent leveling of use. Rather, perceived risk has continued a steep decline since the mid-2010s without a concomitant further rise in overall use. We have shown that a sharp decline in the use of "gateway drugs"—in particular cigarette smoking, with which marijuana use has been highly correlated—has offset expected increases in marijuana use.4

Disapproval

Personal disapproval of trying marijuana has declined some since 2007 or 2008 in all three grades, following an earlier period of decline; but disapproval of *regular* use still remained quite high in 2020 at 76% and 66% in 8th and 10th grades, respectively. During the early and mid 1990s, as use increased and perceived risk decreased, disapproval

⁴ Miech, R. A., Johnston, L. D., & O'Malley, P. M. (2017). <u>Prevalence and attitudes regarding marijuana use among adolescents over the past decade</u>. *Pediatrics*, 140(6).

fell considerably—by 17, 21, and 19 percentage points for the three grades. As is often the case, perceived risk fell before disapproval. Since 2007 there has been some decline in disapproval, with declines for experimental use in 2017 being significant for all three grades. In 2020 there was no significant decline in disapproval

Availability

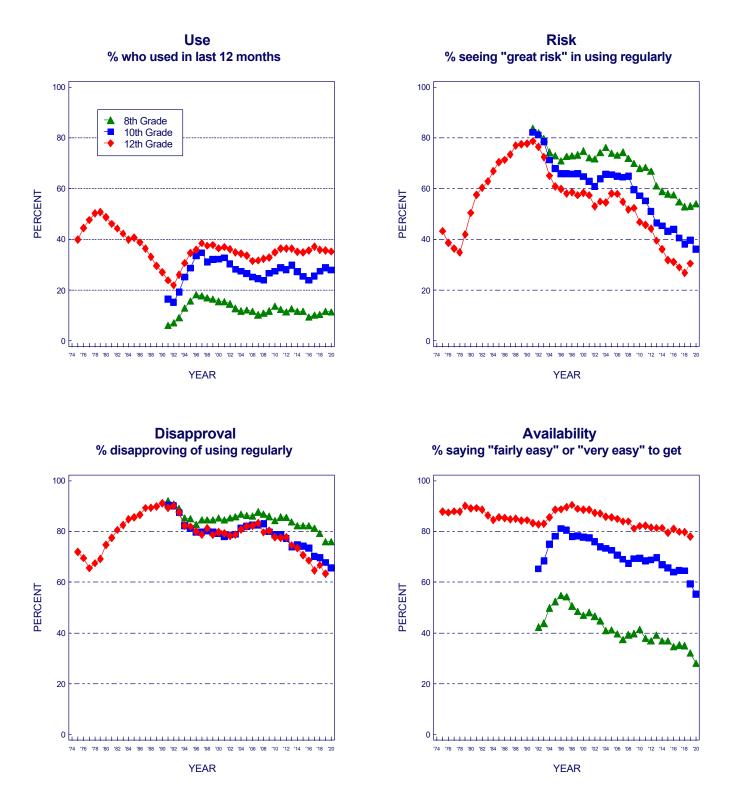
Since 1975, between 78% and 90% of 12th graders each year have said that marijuana would be fairly or very easy to get if they wanted some—with that figure standing at 78% last year in 2019 (2020 data

insufficient to estimate) following a long period of very gradual decline. It has been somewhat less readily available to 10th graders and considerably less available to 8th graders, with 55% and 28%, respectively, in 2020 reporting it to be fairly or very easy to get. Availability has declined appreciably among younger adolescents but marijuana remains readily available to most 12th graders. The decline in reported availability seems unexpected in a period of lower barriers to buying. The question does have the phrase "if you wanted some." Perhaps fewer are interested in using or buying.

Figure 2

Marijuana: Trends in Annual Use, Risk, Disapproval, and Availability

Grades 8, 10, 12



Source. The Monitoring the Future study, the University of Michigan.

^{*}Missing 12th grade estimates in 2020 are due to insufficient sample size because of the stop in data collection during the COVID-19 pandemic.

^{**}Note: for details on the 2019 estimates see note at the end of the Figures.

Synthetic Marijuana

Synthetic marijuana has generally been sold over the counter under such labels as Spice and K-2. It usually contains some herbal materials that have been sprayed with one or more of the designer chemicals that fall into the cannabinoid family. Until March 2011, these drugs were not scheduled by the Drug Enforcement Administration (DEA), so they were readily and legally available on the Internet and in convenience stores, head shops, gas stations, etc. However, the DEA scheduled some of the most widely used chemicals beginning March 1, 2011, making their possession and sale no longer legal; subsequent laws have expanded the list of banned chemicals, but producers keep tweaking the chemical formulae to avoid legal control. These drugs can be dangerous both because the active ingredients keep changing and because those ingredients have never undergone testing to determine their safety for human ingestion.

Trends in Use

MTF first addressed the use of synthetic marijuana in its 2011 survey by asking 12th graders about their use in the prior 12 months (which would have covered a considerable period of time prior to the drugs being scheduled by the DEA). Annual prevalence was found to be 11.4%, making synthetic marijuana the second most widely used class of illicit drug after marijuana itself among 12th graders at that time. Despite the DEA's intervention, use among 12th graders remained unchanged in 2012 at 11.3%, which suggests either that compliance with the new scheduling had been limited or that producers of these products succeeded in continuing to change their chemical formulae to avoid using the

ingredients that had been scheduled, or both. In 2012, for the first time, 8th and 10th graders were asked about their use of synthetic marijuana; their annual prevalence rates also were high at 4.4% and 8.8%, respectively. Use in all three grades dropped in 2013, with a sharp and significant decline among 12th graders, as well as a significant declines for both 10th and 12th graders in 2014. Since those initial measures, annual prevalence has declined appreciably and in 2020 was down to 1.6%, 2.5%, and 2.4% for the three grades.

Perceived Risk

All three grades were asked whether they associated "great risk" with trying synthetic marijuana once or twice. As can be seen in Figure 3, the level of perceived risk for experimental use was quite low in 2012 (between 24% and 25%). The availability of these drugs over the counter probably had the effect of communicating to teens that they must be safe, though in fact they are not. Perceived risk rose some, particularly among 12th graders, to 36% in 2016. (The percent would be higher if those answering "can't say, drug unfamiliar" were excluded.) After 2016 there was a decline in perceived risk in all three grades. Since 2018 the trends have been uneven. In 2020 perceived risk for trying synthetic marijuana once or twice was 26% and 28% for 8th and 10th grade, respectively, with insufficient data to make an estimate for 12th grade.

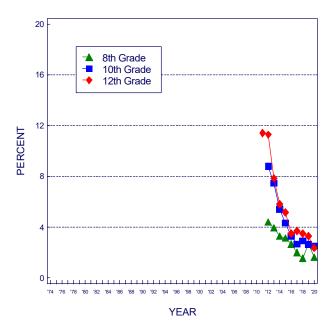
Disapproval and Availability have not been measured for this class of drugs. It might well be that access to these products has declined considerably as a result of the DEA scheduling many of them.

Figure 3

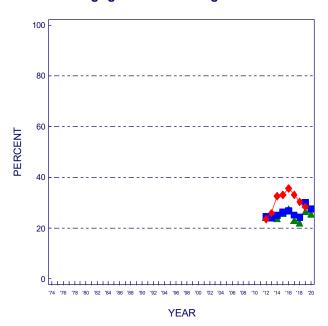
Synthetic Marijuana: Trends in Annual Use and Risk

Grades 8, 10, 12

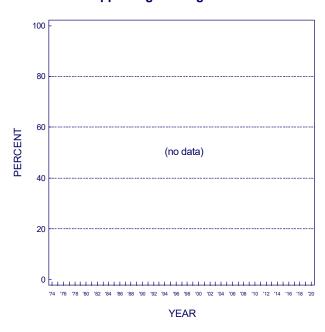
Use % who used in last 12 months



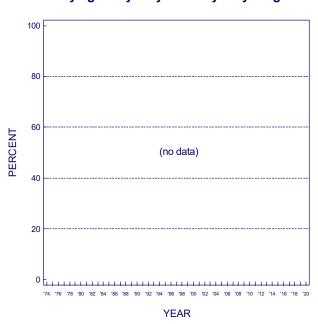
Risk % seeing "great risk" in using once or twice



Disapproval % disapproving of using once or twice



Availability
% saying "fairly easy" or "very easy" to get



Source. The Monitoring the Future study, the University of Michigan.

^{*}Missing 12th grade estimates in 2020 are due to insufficient sample size because of the stop in data collection during the COVID-19 pandemic.

^{**}Note: for details on the 2019 estimates see note at the end of the Figures.

Inhalants are any non-combusted and non-heated gases or fumes that can be inhaled to get high. The substances include many household products—the sale and possession of which is legal—including glue, nail polish remover, gasoline, solvents, butane, and propellants used in certain commercial products such as whipped cream dispensers. Unlike nearly all other classes of drugs, inhalant use is most common among younger adolescents and tends to decline as youth grow older. The use of inhalants at an early age may reflect the fact that many inhalants are cheap, readily available (often in the home), and legal to buy and possess. The decline in use with age likely reflects their coming to be seen as "kids' drugs," in addition to the fact that a number of other drugs become available to older adolescents, who are also more able to afford them. For a while the use of nitrite inhalants grew, but it has dimished considerably since then and is no longer included in the estimates.

Trends in Use

Past 12-month inhalant use (excluding the use of nitrite inhalants) by 12th graders rose gradually from 1976 to 1987, which was somewhat unusual because most other forms of illicit drug use were in decline during the 1980s. Use of inhalants rose among 8th and 10th graders from 1991, when those grades were first included in the study, through 1995; and it rose among 12th graders from 1992 to 1995. All grades then exhibited a fairly steady and substantial decline in use through 2001 or 2002. After 2001 the grades diverged somewhat in their trends: 8th graders showed a significant increase in use for two years. followed by a decline from 2004 to 2013, and a leveling in 2014, before resuming the decline in 2015 and 2016; 10th graders showed an increase after 2003 but a considerable decline since 2007; and 12th graders showed a brief increase from 2003 to 2005 but also a considerable decline since then. For the three grades combined, annual use declined significantly in both 2012 and 2013, held steady in 2014 and then declined further in 2015 and 2016. Since 2016 there has been some leveling of the trends in the upper grades and some increase in use in 8th grade.

Perceived Risk

Only 8th and 10th graders have been asked questions about the degree of risk they associated with inhalant

use, and relatively low proportions think that there is a "great risk" in using an inhalant once or twice. However, in 2020 both grades exhibited an increase in perceived risk for experimental use; but 8th grade perceived risk of regular inhalant use increased significantly by 7.6 percentage points to 50.7%, while 10th grade also increased significantly by 5.6 percentage points to 60.6%. Perhaps the warnings of inhalant use interacting adversely with COVID-19 was beginning to reach young people early in 2020. Significant increases in this belief were observed earlier, between 1995 and 1996 in both 8th and 10th grades, probably due to an anti-inhalant advertising initiative launched by The Partnership for a Drug-Free America. That increase in perceived risk marked the beginning of a long and important decline in inhalant use, when no other drugs showed a turnaround in use. However, the degree of perceived risk associated with inhalant use declined steadily between 2001 and 2008 among both 8th and 10th graders, perhaps explaining the increase in use in 2003 among 8th graders and in 2004 in the upper grades. The hazards of inhalant use were mid-1990s, communicated during the generational forgetting of those hazards has likely taken place as replacement class cohorts who did not get that earlier message now comprise the nation's adolescents. The decline in perceived risk is worrisome, and it resumed after 2015, with a significant decline in 8th grade in 2018 and further nonsignificant decline in 2019; These declines leave future class cohorts at risk for a resurgence of inhalant use and correspond to a turnaround in actual use.

Disapproval

Until 2016, over 80% of 8th and 10th grade students said that they would disapprove of even trying an inhalant. (The question was not asked of 12th graders.) There was a very gradual upward drift in disapproval from 1995 through about 2001, with a gradual falloff after that in both grades until 2020, when the decline in both grades appears to have ended.

Availability

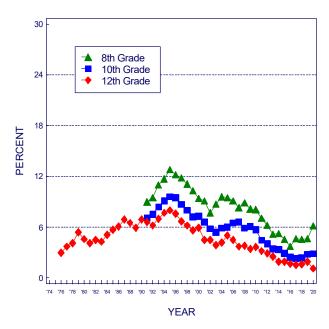
Respondents have not been asked about the availability of inhalants, because we assume that these household products are universally available to young people in these age ranges.

Figure 4

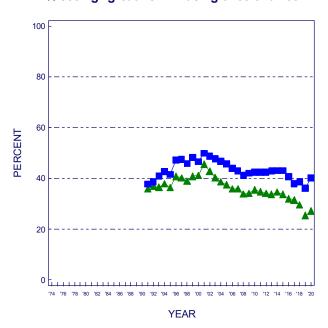
Inhalants: Trends in Annual Use, Risk, and Disapproval

Grades 8, 10, 12

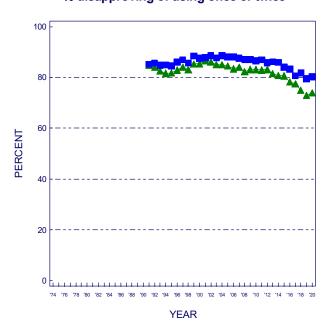
Use % who used in last 12 months



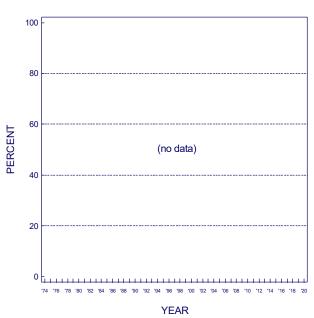
Risk % seeing "great risk" in using once or twice



Disapproval % disapproving of using once or twice



Availability % saying "fairly easy" or "very easy" to get



Source. The Monitoring the Future study, the University of Michigan. *Note: for details on the 2019 estimates see note at the end of the Figures.

For some years, LSD was the most widely used drug within the larger class of hallucinogens. This was no longer true for some subsequent years, due to sharp decreases in its use combined with an increasing use of psilocybin. (Statistics on overall hallucinogen use and on use of hallucinogens other than LSD are shown in Tables 5-7.)

Trends in Use

Annual prevalence of LSD use among 12th graders has been below 10% since MTF began. Use declined some for the first 10 years among 12th graders, likely continuing a decline that had begun prior to 1975. Use was fairly level in the latter half of the 1980s but, as was true for a number of other drugs, rose in all three grades between 1991 and 1996. Between 1996 and 2003 use declined in all three grades. After that use remained at low levels although there has been a modest increase in the all three grades since 2013, particularly at 12th grade, which continued into 2020, though not a statistically significant increase this year.

Perceived Risk

We think it likely that perceived risk for LSD use increased during the early 1970s, before MTF began, as concerns grew about possible neurological and genetic effects (most of which were never scientifically confirmed) as well as "bad trips" and "flashbacks." However, among 12th graders there was some decline in perceived risk in the late 1970s, after which it remained fairly level through most of the 1980s. A substantial decline occurred in all grades in the early 1990s as use rose. Perceived risk continued to decline fairly steadily and substantially among 8th graders until 2007, before leveling; it declined considerably among 10th graders before leveling around 2002, dropping through 2007, and then leveling after that. Since 2014 and 2015 risk has declined once again in both 10th and 12th grades. In 2020 10th graders showed a significant decline. Among 12th graders, the recent decline in perceived risk appeared to mark the end of a levelling that had been in place since 2002, but there was some further deline in 2014-2018, followed by a drop in in 2020. The greater decline in 8th grade suggests that younger teens may be less knowledgeable about this drug's effects than their predecessors—through what we have called "generational forgetting" making the 8th graders vulnerable to a resurgence in use. (The percentages who respond "can't say, drug unfamiliar" to questions about LSD have risen in recent years, consistent with the notion of "generational forgetting.")

The decline in actual use of LSD from the mid-1990s to about 2003, despite a fall in perceived risk, suggests that some factors other than a change in underlying attitudes and beliefs contributed to the downturn in use—prior to 2001 some displacement by ecstasy may have been a factor while more recently a decline in the availability of LSD (discussed below) likely is a factor.

Disapproval

Disapproval of LSD use was quite high and rising among 12th graders through most of the 1980s but it began to decline after 1991 along with perceived risk. All three grades exhibited a decline in disapproval through 1996, with disapproval of experimentation dropping 11 percentage points between 1991 and 1996 among 12th graders. After 1996 came a divergence among the three grades, with a substantial increase in disapproval among 12th graders, accompanied by more of a leveling among 10th graders and a considerable decline among 8th graders. Note, however, that the percentages of 8th and 10th graders who respond with "can't say, drug unfamiliar" increased through 2008; thus the base for disapproval has shrunk, suggesting that the real decline of disapproval among the younger students is less than it appears here. Since 2010 the divergence has reversed, with levels of disapproval declining for 12th grade students, staying fairly level for 10th graders, and increasing some for 8th graders (until both lower grades showed a significant drop in disapproval in 2020, possibly a result of the small samples in 2020 introducing error).

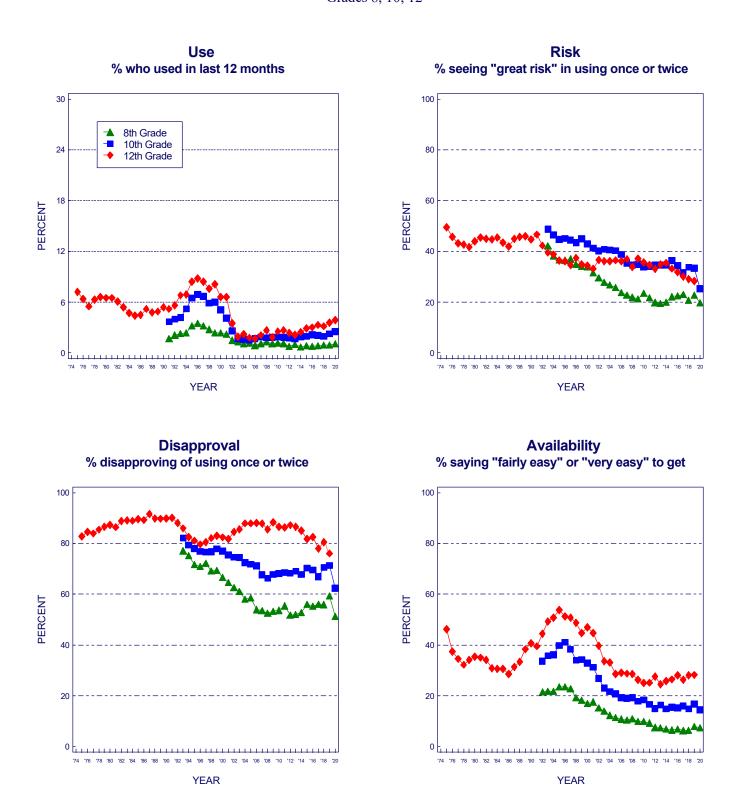
Availability

Reported availability of LSD by 12th graders fell considerably from 1975 to 1979, declined a bit further until 1986, and then began a substantial rise, reaching a peak in 1995. LSD availability also rose somewhat among 8th and 10th graders in the early 1990s, reaching a peak in 1995 or 1996. Since those peak years, there has been considerable falloff in reported availability in all three grades, quite possibly in part because fewer students have LSD-using friends from whom they could gain access.

There was also very likely a decrease in supply due to the closing of a major LSD-producing lab by the Drug Enforcement Administration in 2000. It is clear that attitudinal changes cannot explain all of the

substantial declines in use in the late 1990s. Availability finally leveled in the lower two grades after about 2013, but began to rise gradually among 12th graders in the same period.

Figure 5
LSD: Trends in Annual Use, Risk, Disapproval, and Availability
Grades 8, 10, 12



Source. The Monitoring the Future study, the University of Michigan.

^{*}Missing 12th grade estimates in 2020 are due to insufficient sample size because of the stop in data collection during the COVID-19 pandemic.

^{**}Note: for details on the 2019 estimates see note at the end of the Figures.

Cocaine was used almost exclusively in powder form for some years, though "freebasing" emerged for a while. The early 1980s brought the advent of crack cocaine. Our original questions did not distinguish among different forms of cocaine or modes of administration. Since 1987, though, we have asked separate questions about the use of crack and "cocaine other than crack," which has consisted almost entirely of powder cocaine use. Data on cocaine use in general (i.e., all forms of cocaine) are presented in the figures in this section, and results for crack alone are presented in the next section.

Trends in Use

There have been some important changes in the levels of overall cocaine use over the life of MTF. Use among 12th graders originally burgeoned in the late 1970s and remained fairly stable through the first half of the 1980s before starting a precipitous decline after 1986. Annual prevalence among 12th graders dropped by about three quarters between 1986 and 1992. Between 1992 and 1999, use reversed course again during the relapse phase of the overall drug epidemic and doubled before beginning a long-term decline in use around 1998. Use also rose among 8th and 10th graders after 1992 before reaching peak levels in 1998 and 1999. Over the last 20 years, use has declined in all three grades, except for slight nonsignificant increases in 12th grade in 2017 and 2020; annual 12th grade use stood at 2.9% in 2020—half the peak level of 5.7% in 2006—with use by 8th and 10th graders still lower, at 0.5% and 1.1%, respectively.

Perceived Risk

Questions about the dangers of cocaine in general (without specifying any particular form of cocaine) have been asked only of 12th graders. The results tell a fascinating story. They show that perceived risk for experimental use fell in the latter half of the 1970s (when use was rising), stayed level in the first half of the 1980s (when use was level), and then jumped very sharply in a single year (by 14 percentage points between 1986 and 1987), just when the substantial decline in use began. The year 1986 was marked by a media frenzy over crack cocaine and the widely publicized role of cocaine in the death of Len Bias, a

National Basketball Association first-round draft pick. Bias' death was originally reported as resulting from his first experience with cocaine. Though that was later proven to be incorrect, the message had already "taken." We believe that this event helped to persuade many young people that use of cocaine at any level is dangerous, no matter how healthy the individual.⁵ Perceived risk continued to rise through 1991 in 12th grade as the fall in use continued. Perceived risk then declined modestly from 1991 to 2000, and use rose from 1992 to 2000. Perceived risk has leveled in recent years at far higher levels than existed prior to 1987, and there was a gradual upward drift for about six years in grades 8 and 10, starting around 2008, before leveling. In 2020, 8th graders showed a nonsignificant increase to 49%, as did 10th graders to 58%. (Insufficient 12th grade sample in 2020.) For the 12th graders, perceived risk also increased for about six years before leveling after 2013, followed by some falloff in 2017, before leveling again. There is as yet little evidence of generational forgetting of cocaine's risks. For 12th graders, survey questions on both risk and disapproval referred to cocaine in general, until 1986. After that they referred to cocaine powder and crack separately, as did the questions asked of 8th and 10th graders. The question change seemed to matter rather little in the results.

Disapproval

Disapproval of cocaine use by 12th graders followed a cross-time pattern similar to that for perceived risk, although its seven percentage-point jump in 1987 was not quite as pronounced. Since 1991, when the two lower grades were added to the study, the three grades have moved in tandem. Some decline from 1991 to 1997 was followed by a period of stability. Subsequent years showed a gradual increase in disapproval in all three grades. This upward drift ended in recent years, but disapproval of even trying cocaine remained very high at 85% or greater in 8th and 10th grade in 2020.

Availability

The proportion of 12th graders saying that cocaine would be "fairly easy" or "very easy" for them to get if they wanted some was 33% in 1977, rose to 48%

⁵ Among 12th graders trends in perceived risk in Table 8 show a particularly sharp rise from 34% in 1986 to 48% in 1987 for trying cocaine once or twice.

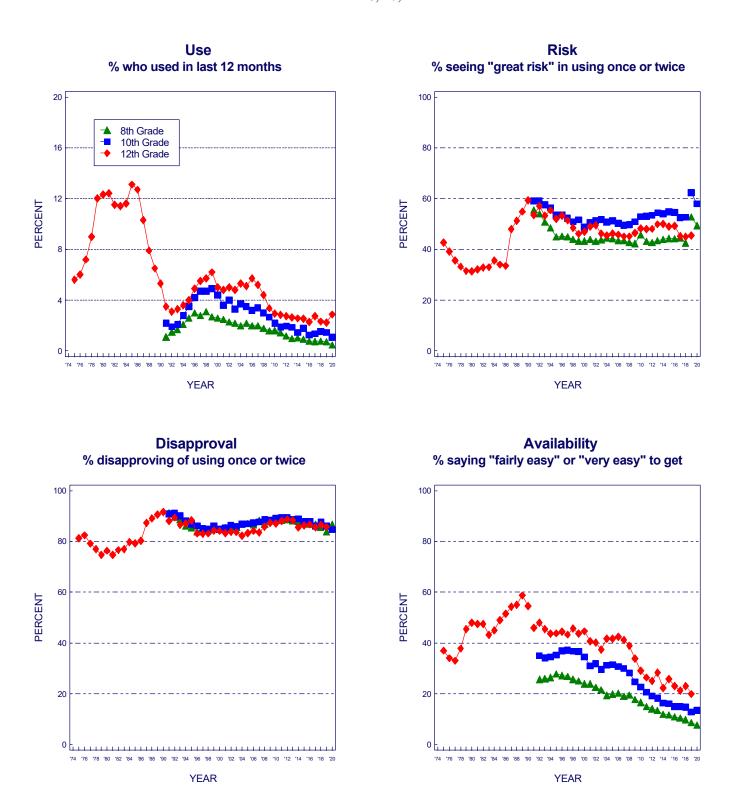
by 1980 as use rose, and held fairly level through 1982; it increased steadily again to 59% by 1989 (in a period of rapidly declining use). Perceived availability then fell back to about 47% by 1994. Since around 1997, perceived availability of cocaine has fallen considerably in all three grades. Among 12th graders it stood at 24% in 2019—less than half of its peak level in 1989. Note that the pattern of

change does not map well onto the pattern of actual use, suggesting that changes in overall availability have not been a major determinant of use—particularly during the sharp decline in use in the late 1980s—whereas changes in risk and disapproval do map well onto use patterns.⁶

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⁶ Bachman, J. G., Johnston, L. D., & O'Malley, P. M. (1990). Explaining the recent decline in cocaine use among young adults: Further evidence that

Figure 6
Cocaine (including Crack): Trends in Annual Use, Risk, Disapproval, and Availability
Grades 8, 10, 12



 ${\it Source}. \ \ \, {\it The Monitoring the Future study}, the \ {\it University of Michigan}.$

^{*}Missing 12th grade estimates in 2020 are due to insufficient sample size because of the stop in data collection during the COVID-19 pandemic.

^{**}Note: for details on the 2019 estimates see note at the end of the Figures.

^{***}Prior to 1991, data reported here is based on questions on use of cocaine in general. Starting in 1991, data based on questions on use of cocaine powder specifically.

Several indirect indicators suggest that crack use grew rapidly in the period 1983–1986, before we had direct measures of its use. In 1986 a single usage question was included in one of the five 12th grade questionnaire forms in use at that time, asking those who indicated any cocaine use in the prior 12 months if they had used crack. The results from that question represent the first data point in the first panel in Figure 7. After that, three questions about crack use covering the usual three prevalence periods were introduced into several questionnaire forms; the data generated by them may be seen in the tables at the end of this volume.

Trends in Use

Clearly crack use rose rapidly in the early 1980s, judging by the 4% annual prevalence reached in 1986; but after 1986 there was a precipitous drop in crack use among 12th graders; the drop continued through 1991. After 1991 for 8th and 10th graders (when data were first available) and after 1993 for 12th graders, all three grades showed a slow, steady increase in use through 1998 during what we have called the relapse phase of the overall drug epidemic. Since 1999, annual prevalence has dropped by about three quarters in 8th and 10th grades and nearly two thirds in 12th grade. By 2016 crack use was at historic lows in all three grades; and there has been little change in use since with the exception of a small increase in use among 12th graders since 2018. As with many drugs, the decline at 12th grade lagged behind those in the lower grades due to a cohort effect. In 2020 the annual prevalence of crack use was at or below 1.2% in all three grades.

Perceived Risk

By the time we added questions about the perceived risk of using crack in 1987, crack was already seen by 12th graders as one of the most dangerous illicit drugs: 57% saw a great risk in even trying it. This compared to 54% for heroin, for example. Perceived risk for crack rose still higher through 1990, reaching 64% of 12th graders who said they thought there was a great risk in taking crack once or twice. (Use was dropping during that interval.) After 1990 some falloff in perceived risk began, well before crack use began to increase in 1994, making perceived risk again a leading indicator of use. Between 1991 and 1998 there was a considerable falloff in this belief in

grades 8 and 10, as use rose steadily. Perceived risk leveled in 2000 in grades 8 and 12 and a year later in grade 10. We think that the declines in perceived risk for crack and cocaine during the 1990s may well reflect an example of generational forgetting wherein the class cohorts that were in adolescence when the adverse consequences were most obvious (i.e., in the mid-1980s) were replaced by cohorts who were less knowledgeable about these dangers. By 2019 perceived risk for trying crack stood at 47% and 62% in 8th and 10th grades, and had been declining for six years among 12th graders, reaching 50%. The questions on perceived risk for crack, as well as the questions on disapproval, were dropped starting in 2020 to make room for other questions.

Disapproval

Disapproval of crack use was not assessed until 1990, when it was at a very high level, with 92% of 12th graders saying that they disapproved of even trying it. Disapproval of crack use declined slightly but steadily in all three grades from 1991 through about 1997 as perceived risk decreased and use increased. After 1997, disapproval in all three grades rose back to high levels by 2012 before beginning a gradual decline.

Availability

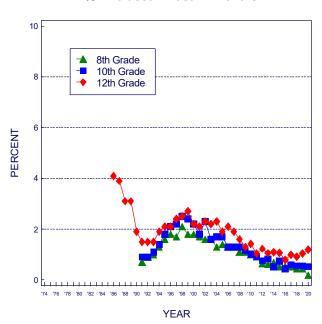
Crack availability did not change dramatically in the early years for which data are available. It began a sustained decline after 1995 among 8th graders, after 1999 among 10th graders, and after 2000 among 12th graders. Since 2000, availability has declined considerably, reaching historic lows in 2020 in 8th and 10th grades with insufficient data for 12th grade that year.

NOTE: The distinction between crack cocaine and other forms of cocaine (mostly powder) was made several years after the study's inception. The trend lines in Figure 7 begin when these distinctions were introduced. Figures are not presented here for the "other forms of cocaine" measures, simply because the trend curves look extremely similar to those for crack. (All statistics are contained in the tables.) Although the trends are very similar, the absolute levels of use, risk, etc., are somewhat different. Usage levels tend to be higher for cocaine powder compared to crack, and the levels of perceived risk a bit lower. Disapproval has been close for the two

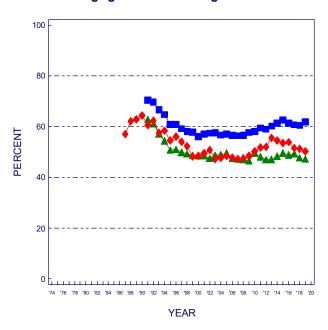
different forms of cocaine whereas their relative availability has varied (Tables 9 through 14).

Figure 7
Crack: Trends in Annual Use, Risk, Disapproval, and Availability
Grades 8, 10, 12

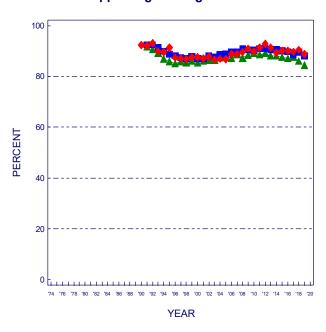
Use % who used in last 12 months



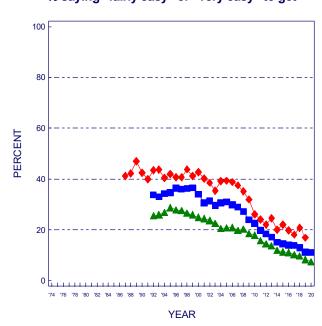
Risk % seeing "great risk" in using once or twice



Disapproval % disapproving of using once or twice



Availability
% saying "fairly easy" or "very easy" to get



 ${\it Source}. \ \ \, {\it The Monitoring the Future study}, the \ {\it University of Michigan}.$

^{*}Missing attitude in 2020 are due to insufficient sample size because of the stop in data collection during the COVID-19 pandemic.

^{**}Note: for details on the 2019 estimates see note at the end of the Figures.

Amphetamines and Other Stimulant Drugs

Amphetamines, a class of psychotherapeutic stimulants, had a relatively high prevalence of use in the youth population for many years. Amphetamines are controlled substances—they are not legally bought or sold without a doctor's prescription—but some are diverted from legitimate channels, and some are manufactured and/or imported illegally. Another controlled stimulant included here is Ritalin which is used to treat ADHD, as is Adderall, the most prevalent of the amphetamines. Separate estimates for these two drugs are contained in the tables at the end of this volume.

Trends in Use

The use of these stimulants rose in the last half of the 1970s, reaching a peak in annual prevalence of 26% in 1981 (likely exaggerated due to commonly used "look-alikes")—two years after marijuana use peaked. From 1981 to 1992, 12th graders showed a steady and very substantial decline in stimulant use, reaching 6%.

As with many other illicit drugs, stimulants made a comeback in the 1990s. Use peaked in the lower two grades by 1996 and for many years declined steadily in 8th grade and sporadically in 10th grade. Only in 2003 did use begin to decline in 12th grade—likely reflecting a cohort effect. The decline paused in 2008 for 8th graders and 2008/2009 for 12th graders, and then resumed. The 10th and 12th grade declines reversed from 2009 to 2013. In 2013 the amphetamines/stimulants prevalence question text was changed in half of the questionnaire forms. The 2013 report used data from the changed forms only. to be comparable to the 2014 measure. In 2014 the remaining forms were changed; the 2014 and subsequent data presented here are based on all the forms. From 2009 to 2013 use rose in the upper two grades, likely due to a rise in stimulant use intended to assist with academic performance in high school. Since 2013 there has been a downward drift in annual prevalence but a steeper decline in 30-day prevalence (significant in the upper grades).

See Table 6 for the trends in annual use of two specific amphetamines—Ritalin and Adderall. Since it was first measured in 2001, nonmedical Ritalin use has declined by 75% to 85% in all three grades. Nonmedical Adderall use declined in the lower

grades since it was first measured in 2009; but annual prevalence increased significantly in 12th grade between 2009 (5.4%) and 2013 (to 7.4%) where it remained in 2015 before falling to 4.4% by 2020.

Percieved Risk

Only 12th graders are asked about the amount of risk they associate with amphetamine/stimulant use. For a few years, changes in perceived risk were not correlated with changes in usage levels (at the aggregate level). Specifically, in the interval 1981– 1986, risk was quite stable even though use fell considerably, likely as a result of some displacement by increasing cocaine use. There was, however, a decrease in risk during the period 1975–1981 (when use was rising), some increase in perceived risk in 1986–1991 (when use was falling), and some decline in perceived risk from 1991 to 1995 (in advance of use rising again). Perceived risk generally rose until 2010, very likely contributing to the decline in use that occurred among 12th graders after 2002. In 2011 the examples of specific amphetamines provided in the text of the questions on perceived risk, disapproval, and availability were updated with the inclusion of Adderall and Ritalin. This led to some discontinuities in the trend lines in 2011. (Levels of perceived risk and disapproval lowered as a result.) Based on the revised question, some small decrease was occurring in perceived risk from 2013 to 2018.

Disapproval

Disapproval of amphetamine/stimulant use also is asked in 12th grade only. Relatively high proportions of 12th graders have disapproved of even trying amphetamines/stimulants throughout the life of the study. Disapproval did not change in the late 1970s despite an increase in use. From 1981 to 1992, disapproval rose gradually and substantially from 71% to 87% as perceived risk rose and use declined. In the mid-1990s disapproval declined along with perceived risk, but it then increased fairly steadily from 1996 through 2009 before leveling. There was a very slight falloff since 2013.

Availability

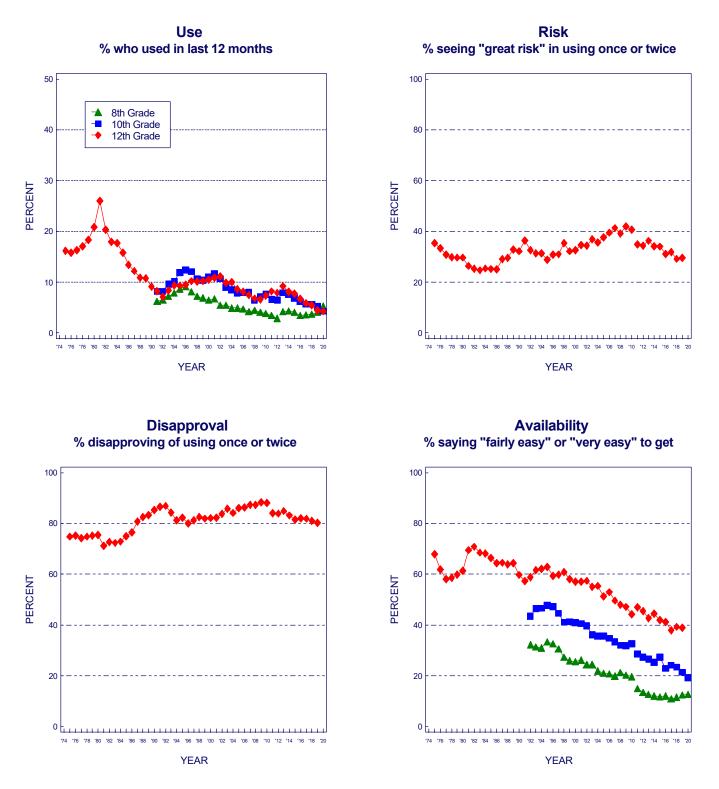
In 1975, amphetamines/stimulants had a high level of reported availability. The level fell by about 10 percentage points among 12th graders by 1977,

drifted up a bit through 1980, jumped sharply in 1981, and then began a long, gradual decline through 1991. There was a modest increase in availability at all three grade levels in the early 1990s as use rose, followed by a very large long-term decline reaching 39% through 2019. The lower grades moved in parallel to 12th graders, but at much lower levels.

Figure 8

Amphetamines: Trends in Annual Use, Risk, Disapproval, and Availability

Grades 8, 10, 12



^{*}Missing 12th grade estimates in 2020 are due to insufficient sample size because of the stop in data collection during the COVID-19 pandemic.

^{**}Note: for details on the 2019 estimates see note at the end of the Figures.

^{***}In 2013, the use question text was changed on two of the forms for 8th and 10th grade, four of the forms for 12th grade. Beginning in 2013, data presented here include only the changed forms.

^{****}In 2011, the list of examples was changed to include Adder層կฎକାଇଥାନ, etc. This likely explains the discontinity in the 2011 results.

Methamphetamine and Crystal Methamphetamine (Ice)

One subclass of amphetamines is called methamphetamine ("speed"). This subclass has been around for a long time and gave rise to the phrase "speed kills" in the 1960s. Probably because of the reputation it got at that time as a particularly dangerous drug, it was not popular for some years, so we did not include a full set of questions about its use in MTF's early questionnaires. One form of methamphetamine, crystal methamphetamine or "ice," grew in popularity in the 1980s. It comes in crystallized form, as the name implies, and the chunks can be heated and the fumes inhaled, much like crack cocaine.

Trends in Use

For most of the life of the study, the only question about methamphetamine use has been contained in one of the six 12th-grade questionnaire forms. Respondents who indicate using any type of amphetamine in the prior 12 months are asked in a sequel question to indicate on a prespecified list the types they have used during that period. Methamphetamine is one type on the list, and data exist on its use since 1976. (The rates are not graphed here until 1990.) In 1976, annual prevalence using this measure was 1.9%; it then roughly doubled to 3.7% by 1981 (the peak year), before declining for over a decade all the way down to 0.4% by 1992. Use then rose again in the mid-1990s, as did use of a number of drugs, reaching 1.3% by 1998. In other words, it has followed a cross-time trajectory fairly similar to that for amphetamines as a whole. No questions have yet been added to the study on perceived risk, disapproval, or availability with regard to overall methamphetamine use.

In 1990, in the 12th-grade questionnaires only, we introduced our usual set of three prevalence questions for *crystal methamphetamine*, measuring lifetime, annual, and 30-day use. Among 12th graders in 1990, 1.3% indicated any use in the prior year; use climbed to 3.0% by 1998, and has generally been declining since then, reaching an all-time low of 0.0% by 2020. This variable is graphed on the upper left panel of Figure 9.

In 1999, responding to the growing concern about methamphetamine use in general—not just crystal methamphetamine use—we added a full set of three questions about the use of *any* methamphetamine to the questionnaires for all three grade levels. These questions

yield a somewhat higher annual prevalence for 12th graders: 4.3% in 2000, compared to the sum of the methamphetamine and crystal methamphetamine answers in the other, branching question format, which totaled 2.8%. It would appear, then, that the long-term method we had been using for tracking methamphetamine use in any form probably yielded an underestimate of the absolute prevalence level, perhaps because some proportion of methamphetamine users did not correctly categorize themselves initially amphetamine users (even though methamphetamine was given in the question as one of the examples of amphetamines). We think it likely that the shape of the trend curve was not distorted, however.

The newer questions for *methamphetamine* in general (not graphed) show annual prevalence rates in 2020 of 0.5%, 0.3%, and 1.4% in the three grades respectively. These levels are among the lowest recorded in 8th and 10th grade. They are down considerably from the first measurements taken in 1999, when they were 3.2%, 4.6%, and 4.7% for the three grades (see Table 6). So, despite growing public concern about methamphetamine problem in the United States, use actually showed a fairly steady and substantial decline since 1999, at least among secondary school students. (A similar decline in methamphetamine use did not begin to appear among college students and young adults generally until after 2004, likely reflecting a cohort effect. See *Volume II* in this series for data on college students and all adults through age 60.)

Other Measures

Data on perceived risk and availability for crystal methamphetamine, specifically, may be found in Figure o

Clearly, the perceived risk of using crystal methamphetamine has risen considerably since 2003, very likely explaining much of the decline in use since then. Perceived risk leveled after 2013 and has shown a slight decline since. Perceived availability generally has been falling in all three grades since 2006, perhaps in part because there are many fewer crystal methamphetamine users from whom to get the drug. In 2020 there are insufficient numbers of cases for estimates of these two variables.

Figure 9
Crystal Methamphetamine (Ice): Trends in Annual Use, Risk, and Availability
Grades 8, 10, 12

Use **Risk** % who used in last 12 months % seeing "great risk" in using once or twice 10 100 8th Grade 10th Grade 12th Grade PERCENT PERCENT YEAR YEAR **Disapproval Availability** % disapproving of using once or twice % saying "fairly easy" or "very easy" to get 100 100 PERCENT PERCENT (no data)

 ${\it Source}. \ \ {\it The Monitoring the Future study}, the \ {\it University of Michigan}.$

YEAR

YEAR

^{*}Missing estimates in 2020 are due to insufficient sample size because of the stop in data collection during the COVID-19 pandemic.

^{**}Note: for details on the 2019 estimates see note at the end of the Figures.

For many decades, heroin—a derivative of opium—was administered primarily by injection into a vein. However, in the 1990s the purity of available heroin reached very high levels, making other, less efficient modes of administration (e.g., snorting, smoking) practical alternatives. Thus, in 1995 we introduced questions that asked separately about using heroin with and without a needle to determine whether non-injection use explained the upsurge in heroin use we observed. The usage statistics presented in Figure 10 are based on heroin use by any method, but data on the two specific types of administration are provided in the tables at the end of this report.

Trends in Use

The annual prevalence of heroin use among 12th graders fell by half between 1975 and 1979, from 1.0% to 0.5%. The rate then held amazingly steady until 1994. Use rose in the mid- and late-1990s, along with the use of most drugs; it reached peak levels in 1996 among 8th graders (1.6%), in 1997 among 10th graders (1.4%), and in 2000 among 12th graders (1.5%), suggesting a cohort effect. Following those peak levels, use declined, with annual prevalence in all three grades fluctuating between 0.7% and 0.9% from 2005 through 2010. Then, annual prevalence for the three grades declined, from 2010 to 0.3% in 2016 before leveling at some of the lowest levels seen in all three grades.

Because the questions about use with and without a needle were not introduced until the 1995 survey, they did not encompass much of the period of increasing heroin use. The new questions showed that, by then, about equal proportions of 8th grade users were taking heroin by each method of ingestion and some—nearly a third of users were using both means. At 10th grade, a somewhat higher proportion of all users took heroin without a needle than with, and at 12th grade, the proportion was higher still. Thus, much of the increase in overall heroin use after 1995 occurred in the proportions using it without injecting, which we strongly suspect was true in the immediately preceding period of increase as well. Likewise, much of the decrease since the recent peak levels has been due to decreasing use of heroin without a needle. In 2012, there were significant decreases in use of heroin without a needle for 8th and 12th graders, and very slight declines since then in 8th and 10th grades.

Use with a needle also has fallen considerably in all three grades since the mid-1990s; annual prevalence in 2020 for the three grades stood at 0.2%, 0.2%, and 0.1%, respectively. Heroin use by injection peaked in the mid-

1990s and has declined considerably since (see Table 6). The proportional declines were greatest in the lower grades. While an opioid epidemic continues among adults, our data—as well as those from the National Survey on Drug Use and Health—suggest that use has grown primarily among young adults and not among adolescents.

Perceived Risk

Students have long seen heroin to be one of the most dangerous drugs, which helps to account for both the consistently high level of personal disapproval of use (see below) and the quite low prevalence of use. Nevertheless, perceived risk levels have changed some over the years. Early on, between 1975 and 1986, perceived risk gradually declined; nevertheless use dropped and then stabilized in that interval. Then there was a large upward spike in 1987 (when perceived risk for cocaine also jumped dramatically), where it held for four years. In 1992, perceived risk dropped to a lower level again, presaging an increase in use a year or two later. Perceived risk rose in the latter half of the 1990s, and use leveled off and then declined. Perceived risk of use without a needle rose slightly in all grades between 1995 and 1997, foretelling an end to the increase in that form of use. Risk at 12th grade was still rising through 2016, but has fallen some since then. Note that perceived risk has served as a leading indicator of use for this drug as well as a number of others. During the 2000s, perceived risk has been relatively stable at a high level. (There are insufficient 12th grade data in 2020 to make an estimate.)

Disapproval

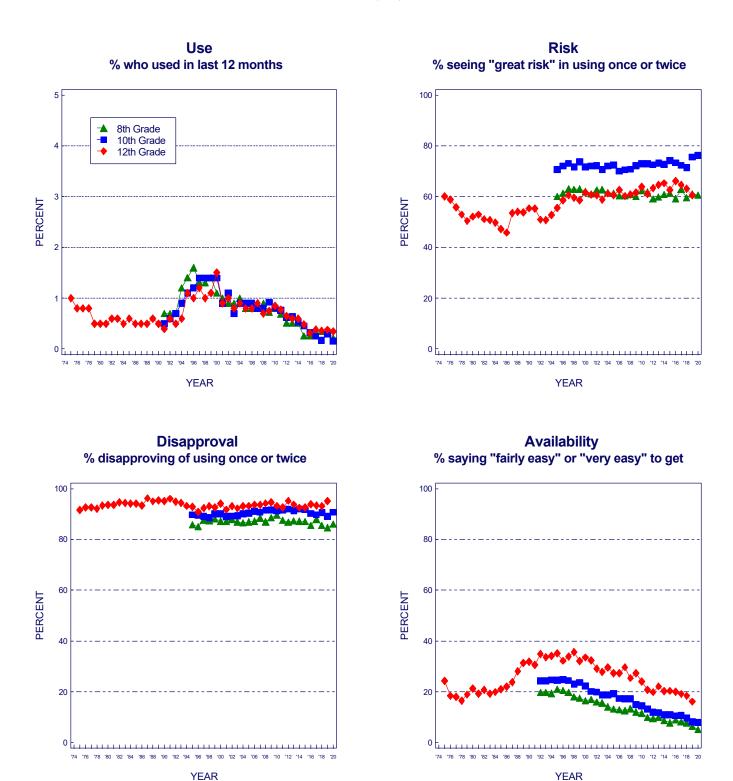
There has been little fluctuation in the very high levels of disapproval of heroin use over the years, though it did rise gradually between 1975 and 1987 and again from 2000 and 2010. The small changes that have occurred have been generally consistent with changes in perceived risk and use.

Availability

The proportion of 12th grade students saying they could get heroin fairly or very easily if they wanted some remained around 20% through the mid-1980s. It then increased considerably from 1986 to 1992 before stabilizing at about 35% from 1992 through 1998. Since then, perceived availability of heroin has declined gradually but substantially in all three grades, falling to an all-time low in 2020 in the lower grades and in 2019 among 12th graders, for whom no 2020 estimate can be made.

Figure 10
Heroin: Trends in Annual Use, Risk, Disapproval, and Availability

Grades 8, 10, 12



^{*}Missing 12th grade estimates in 2020 are due to insufficient sample size because of the stop in data collection during the COVID-19 pandemic.

^{**}Note: for details on the 2019 estimates see note at the end of the Figures.

^{***}Prior to 1995, the questions asked about heroin use in general. Since 1995, the questions have asked about heroin use without a needle.

Other Narcotic Drugs, Including OxyContin and Vicodin

There are a number of narcotic drugs other than heroin—all of which are controlled substances. Many are analgesics that can be prescribed by physicians and dentists for pain. Like heroin, many are derived from opium, but there are also a number of synthetic analogues in use today, with OxyContin and Vicodin being two of the major ones. Fentanyl is another very powerful narcotic drug which has been used in combination with other drugs, often resulting in overdoses and death.

Throughout the life of the MTF study, we have asked about the use of any narcotic drug other than heroin without specifying which one. Examples of drugs in the class are provided in the question stem. In one of the six 12th grade questionnaire forms, however, respondents indicating that they had used *any* narcotic in the past 12 months were then asked to check which of a fairly long list of specific drugs they used. Table C-4 in Appendix C of *Volume I* of the MTF annual monograph series provides trends in their annual prevalence. In the late 1970s, opium and codeine were among the narcotics most widely used. In recent years codeine has been the most prevalent.

Trends in Use

Use is reported for 12th graders only, because we considered the data from 8th and 10th graders to be of questionable validity. As shown in the first panel of Figure 11, 12th graders' use of narcotics other than heroin generally trended down from about 1977 through 1992, dropping considerably. After 1992 use rose rather steeply as all forms of substance use were increasing, with annual prevalence nearly tripling from 3.3% in 1992 to 9.5% in 2004, before leveling through about 2009. Much of this increase resulted from a revision of the example drugs, as is noted in a footnote to the figure. Importantly, since 2009, use has declined substantially from 9.2% to 2.1% in 2020 (with a significant decrease in 2019).

In 2002, the question was revised to add Vicodin, OxyContin, and Percocet to the examples given, which clearly had the effect of increasing reported prevalence, as may be seen in the first panel of Figure 11. So the extent of the increase over the full time span likely is exaggerated, although probably not by much, because these drugs came onto the scene later, during the rise. They simply were not being fully reported until the late 1990s. Narcotics had become one of the most widely used

classes of illicit drugs by 2004, when annual prevalence reached 9.5%.

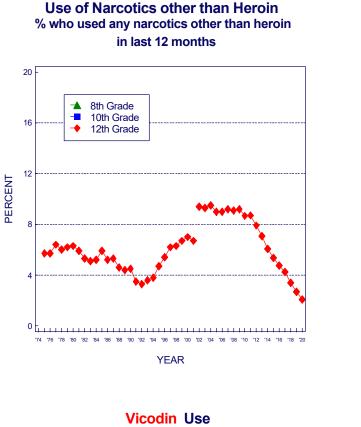
In a departure from the usual arrangement, use rates for two narcotics of recent interest—OxyContin and Vicodin—are presented in the second and third panels of Figure 11 instead of risk and disapproval. There are no data on disapproval for other narcotics, and only limited 12th grade data on perceived risk (since 2010); since 2010 risk of trying the drugs has increased slightly, from 40% in 2010 to 45% in 2019, with insufficient data to make an estimate in 2020 (see Table 12).

OxyContin use increased in all grades from 2002 (when it was first measured) through roughly 2009, though the trend lines have been irregular. Since 2009 or 2010, the prevalence rate has dropped in all grades. Annual prevalence in 2020 was down to 0.9%, 1.0%, and 2.4% in grades 8, 10, and 12, respectively, with a significant 1.1% decline among 10th graders in 2020. Use of Vicodin, on the other hand, remained fairly steady at somewhat higher levels from 2002—the first year it was measured—until 2009, after which it declined substantially in all grades. In 2020, annual prevalence rates continued to decline and were 0.5%, 0.9%, and 1.2% for 8th, 10th, and 12th graders respectively.

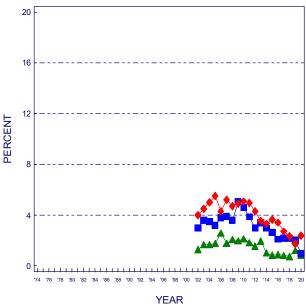
Availability

Questions were asked about the availability of narcotics other than heroin, taken as a class. (See the fourth panel on Figure 11.) Perceived availability increased gradually among 12th graders for more than a decade (from 1978 through 1989), even as reported use was dropping. Perceived availability then rose further for another decade (from 1991 through 2001) as use rose quite sharply before leveling by about 2000 and then declining after 2002 among 12th graders. In the lower two grades availability began declining earlier, after 1995. Since those turnarounds, availability has declined steadily and substantially in all three grades. (In all grades, a change in question wording in 2010 to include OxyContin and Vicodin as examples presumably accounts for the jump in reported availability that year.) Availability has declined further in all three grades since 2010, particularly among 12th graders, but there were insufficient data in 2020 to make reliable estimates of availability in any of the grades.

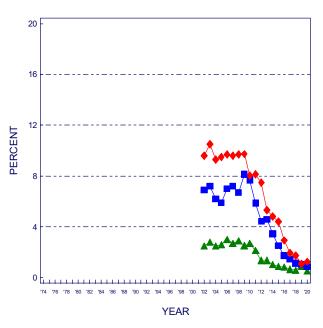
Figure 11 Narcotics other than Heroin, OxyContin, and Vicodin Specifically: Trends in Annual Use and Availability Grades 8, 10, 12



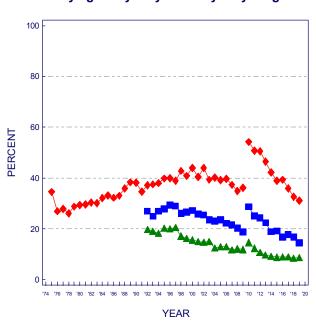
OxyContin Use % who used OxyContin in last 12 months



% who used Vicodin in last 12 months



Availability of Narcotics other than Heroin % saying "fairly easy" or "very easy" to get



^{*}Missing 12th grade estimates in 2020 are due to insufficient sample size because of the stop in data collection during the COVID-19 pandemic.

^{**}Note: for details on the 2019 estimates see note at the end of the Figures.

Tranquilizers

Tranquilizers are psychotherapeutic drugs that are legally sold only by prescription. They are central nervous depressants and, for the most part, comprise benzodiazepines (minor tranquilizers), although some non-benzodiazepines have been introduced. Respondents are instructed to exclude any medically prescribed use from their answers. At present, *Xanax* is the tranquilizer most commonly used by 12th graders (only 12th graders are asked to indicate which specific tranquilizers they used). (See Table C-3 in appendix C of *Volume I* in this series for details.) In 2001, the examples given in the tranquilizer question were modified to reflect changes in the drugs in common use-Miltown was dropped and Xanax was added. As the first panel on Figure 12 shows, this caused a modest increase in the reported level of tranquilizer use in the upper grades, so we have broken the trend line to reflect the point of redefinition.

Trends in Use

During the late 1970s and all of the 1980s, tranquilizers fell steadily and substantially in popularity, with 12th graders' use declining by three fourths over the 15-year interval between 1977 and 1992. Their use then increased, as happened with many other drugs during the 1990s. Annual prevalence more than doubled among 12th graders, rising steadily through 2002, before leveling. Use also rose steadily among 10th graders, but began to decline some in 2002. Use peaked much earlier among 8th graders in 1996 and then declined slightly for two years. Tranquilizer use remained relatively stable among 8th graders through 2010 at considerably lower levels than in the upper two grades, then shifted down slightly and again held steady until a slight rise in use since 2016. From

2002 to 2005, there was some decline among 10th graders, followed by a leveling, then a resumption of the decline through 2013 before drifting up again. Among 12th graders, there was a very gradual decline from 2002 through 2007, before leveling and then decreasing in 2010, 2013, and significantly in 2018. There has been little further change since 2012 or 2013 in the lower grades. In 2020, past 12-month prevalence of these prescription drugs was somewhat lower than their recent peak levels, with annual prevalence rates of 2.2%, 2.6%, and 3.2% in grades 8, 10, and 12, respectively.

Perceived Risk and Disapproval

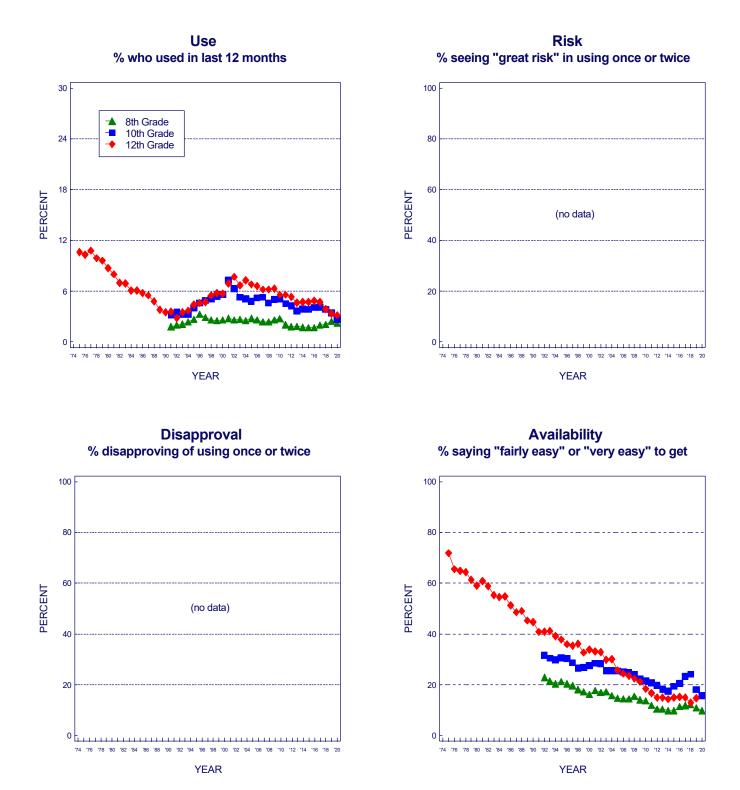
Data have not been collected on perceived risk and disapproval for tranquilizers.

Availability

As the number of 12th graders reporting nonmedically prescribed tranquilizer use fell dramatically during the 1970s and 1980s, so did the proportion saying that tranquilizers would be fairly or very easy to get. Whether declining use caused the decline in availability or vice versa is unclear. However, 12th graders' perceived availability has continued to fall since then, even as use rebounded in the 1990s; it is now down by eight tenths over the life of the study—from 72% in 1975 to 15% by 2019 saying that tranquilizers would be fairly or very easy to get if they wanted some. (Insufficient data for 2020.) In the lower grades availability fell fairly continuously after 1991, when it was first measured, until 2014 though not as sharply as it did in that period among 12th graders. Since 2014, availability has been fairly level in 8th grade but increased from 2014 through 2018 at 10th grade.

Figure 12 **Tranquilizers :** Trends in Annual Use and Availability

Grades 8, 10, 12



^{*}Missing 12th grade estimates in 2020 are due to insufficient sample size because of the stop in data collection during the COVID-19 pandemic.

^{**}Note: for details on the 2019 estimates see note at the end of the Figures.

^{***}Beginning in 2001, a revised set of questions on tranquilizer use was introduced in which Xanax replaced Miltown in the list of examples.

Sedatives (Barbiturates)

Like tranquilizers, sedatives are prescription-controlled psychotherapeutic drugs that act as central nervous system depressants. They are used to assist sleep and relieve anxiety.

Though for many years respondents have been asked specifically about their use of barbiturate sedatives, they could have been including other classes of sedatives in their answers. In 2004, the question on use was revised to say "sedatives/barbiturates"—a change that appeared to have no impact on reported levels of use. Respondents are told for what purposes sedatives are prescribed and are instructed to exclude from their answers any use under medical supervision. Usage data are reported only for 12th graders because we believe that 8th and 10th grade students tend to overreport use, perhaps including in their answers their use of nonprescription sleep aids or other over-the-counter drugs.

Trends in Use

As with tranquilizers, the use of sedatives (barbiturates) fell steadily among 12th graders from the mid-1970s through the early 1990s. From 1975 to 1992, annual prevalence fell by three fourths, from 10.7% to 2.8%. As with many other drugs, a gradual, long-term resurgence in sedative use occurred after 1992, but unlike the case with most illegal drugs, sedative (barbiturate) use continued to rise steadily through 2005, well beyond the point at which the use of most illegal drugs began falling. (Recall that tranquilizer use also continued to rise into the early 2000s.) Use has declined since 2005, and by 2020 the annual prevalence rate was down by about six tenths from its recent peak, falling to 2.4%—a record low for this drug. The sedative methaqualone (known as *Quadudes*) was included in the MTF study from the very beginning, and was never as popular among 12th graders as barbiturates; methaqualone use rates have generally been declining since 1975, reaching an annual prevalence of just 0.5% in 2007, about where it remained through 2012, after which the question was dropped.

Perceived Risk

Trying sedatives (barbiturates) was never seen by most students as very dangerous; and it is clear from the upper

right panel of Figure 13 that changes in perceived risk cannot explain the wide swings in use that occurred from 1975 through 1986, when perceived risk was actually declining along with use. But then perceived risk shifted up some through 1991 while use was still falling. It dropped back some through 1995, as use was increasing, and then remained relatively stable for a few years. Perceived risk has generally been at quite low levels, which may help to explain why the use of this class of psychotherapeutic drugs (and likely others) continued to grow in the first half of the first decade of the 2000s. For the past two decades, perceived risk has hovered within a narrow range. Even when the term "sedatives" was changed to "sedatives/barbiturates" in 2004, the trend line shifted down only slightly. In 2019 perceived risk in 12th grade decreased slightly (by 1.1percentage points, ns) for experimental use. (There were insufficient data to make a 2020 estimate.)

Disapproval

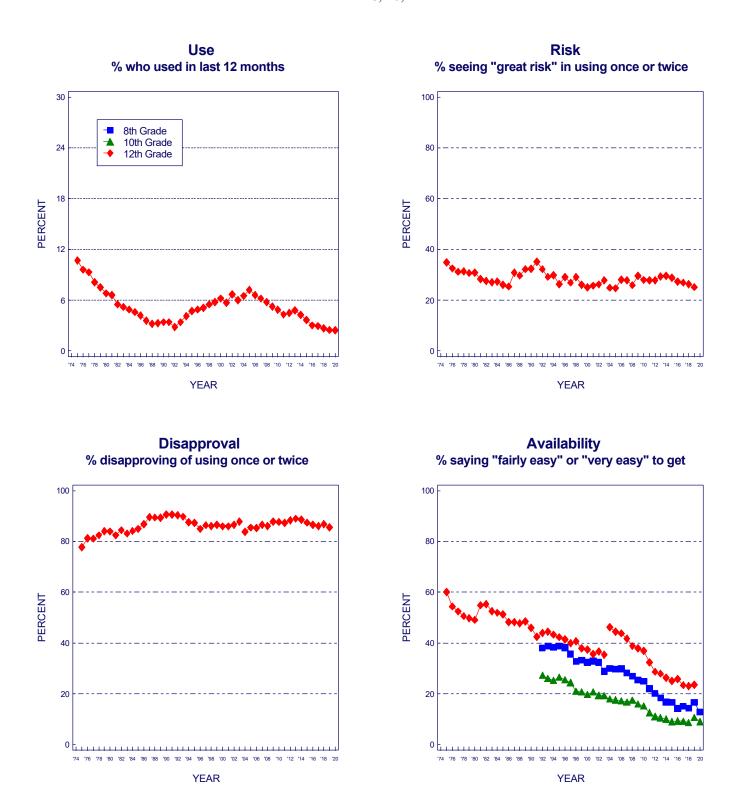
Like many illicit drugs other than marijuana, sedative (barbiturate) use has received the disapproval of most high school seniors since 1975, with some variation in disapproval rates that have moved consistently with usage patterns. The primary trending was the increase in disapproval from 1975 to about 1988. The change in question wording in 2004 appeared to lessen disapproval slightly. There was a modest increase in disapproval after 2004, although that stopped in 2014 and was followed by a slight decrease through 2017, before leveling. (There is no estimate for 2020 due to insufficient data.)

Availability

As the fourth panel in Figure 13 shows, the perceived availability of sedatives (barbiturates) has generally been declining during most of the life of the study, except for one upward shift that occurred in 1981—a year in which look-alike drugs became more widespread. (The change in question text in 2004 appears to have had the effect of increasing reported availability among 12th graders but not among students in the lower grades.) Perceived availability for sedatives (barbiturates) continued to decline, but leveled—after 2015 in grade 8, after 2016 in grade 10, and after 2018 in grade 12. (Insufficient data for a grade 12 estimate in 2020.)

⁶ Risk of regular use actually shifted up in 2004.

Figure 13
Sedatives (Barbiturates): Trends in Annual Use, Risk, Disapproval, and Availability
Grades 8, 10, 12



 ${\it Source}. \ \ {\it The Monitoring the Future study}, the \ {\it University of Michigan}.$

^{*}Missing estimates in 2020 are due to insufficient sample size because of the stop in data collection during the COVID-19 pandemic.

^{**}Note: for details on the 2019 estimates see note at the end of the Figures.

^{***}In 2004 the question text was changed from barbiturates to sedatives/barbiturates and the list of examples was changed from downers, goofballs, reds, yellows, etc. to just downers. These changes likely explain the discontinuity in the 2004 results.

MDMA (Ecstasy, Molly) and Other "Club Drugs"

"Club drugs," so called because they have been popular at nightclubs and raves, include LSD, MDMA (known as ecstasy, and more recently, including Molly), methamphetamine, GHB (gammahydroxybutyrate), ketamine (special K), and Rohypnol. (For discussion of LSD and methamphetamine, see prior pages.) We focus here initially on MDMA (ecstasy, Molly) and treat the other drugs in the last section below.

Trends in Use of MDMA (Ecstasy, Molly)

Ecstasy (3, 4-methylenedioxymethamphetamine or MDMA) is used more for its mildly hallucinogenic properties than for its stimulant properties. Questions on ecstasy use were added to the surveys in 1996.

In 1996, annual prevalence of ecstasy use was 4.6% in 10th and 12th grades—considerably higher than among college students (2.8%) and young adults (1.7%)—but use declined over the next two years. Use then rose sharply, bringing annual prevalence up to 3.5%, 6.2%, and 9.2% for 8th, 10th, and 12th graders by 2001. From 2001 to 2005, use then declined substantially to 1.7%, 2.6%, and 3.0%, respectively. Following some irregular changes, in 2014 use was down slightly in 8th grade (to 0.9%) and 10th grade (to 2.3%) and up slightly in 12th grade (to 3.6%). "Molly," reputedly a purer form of MDMA, received much attention in 2013. Because that term was not used in the 2013 questionnaires, it is not clear whether students included Molly in their answers about ecstasy use that year. The inclusion of Molly as an example in some of the 2014 questionnaires seemed to make a modest difference in reported prevalence. (The 2014 data reported in the Tables show one point based on the unmodified questionnaires and another based on the modified ones for each grade.) After 2014, the change was downward and significantly so by 2016 in all three grades, despite the inclusion of Molly. Use leveled in 2017, declined a bit more (ns) in the upper grades in 2018 and then leveled in all three grades through 2020.

Perceived Risk

In 2001, 12th graders' perceived risk of ecstasy use jumped by eight percentage points and in 2002 by another seven. Significant increases occurred in 2003 for all grades. This sharp rise in perceived risk likely caused the drop in use, as we had predicted. From 2004 to 2011, we saw a troubling drop in perceived risk (first among 8th and 10th, and then among 12th graders), corresponding to the increase in use in the upper two grades and then in all three grades. This suggests a generational forgetting of the dangers of ecstasy use. In 2014, when Molly was added to the question, the reported level of perceived risk jumped substantially in the lower grades. Later, in 2020,

there was a sharp and significant decline in this measure in grades 8 and 10. It is clear that 8th graders have seen MDMA as less dangerous than students in the upper grades since they were first asked this question in 2000.

Disapproval

Disapproval of MDMA use declined some in 12th grade after 1998 but increased significantly in all three grades in 2002, perhaps due to the rise in perceived risk. The rise in disapproval continued through 2003 for 8th, 2004 for 10th, and 2006 for 12th graders, suggesting some cohort effect in this attitude. After those peaks, disapproval dropped sharply among 8th graders and less among 10th graders before leveling, and it did not drop among 12th graders until 2010—again suggesting a cohort effect. After 2015 there was a further decline in disapproval in the lower two grades, but some increase in grade 12. The erosion in perceived risk and disapproval since around 2004 which was sharpest among 8th graders for disapproval could have left these groups more vulnerable to a possible rebound in use; and while some rebound appears to have occurred in the 2005 to 2011 period, use since has leveled among 8th graders and declined some among 10th graders.

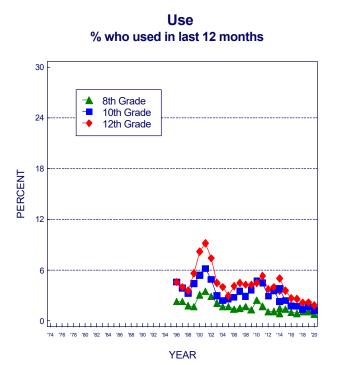
Availability

This figure shows a dramatic rise in 12th graders' perceived availability of MDMA after 1991, particularly between 1999 and 2001, consistent with informal reports about growing importation of the drug. Perceived availability then declined considerably in all grades, including significant declines in 2016 at 10th and 12th grades. Decreased availability may help to account for the declines in use after 2001 and again after 2011. Rohypnol, GHB, and Ketamine.

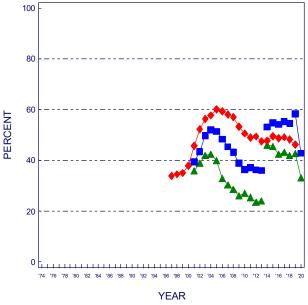
Rohypnol, GHB, and **ketamine** are called "date rape drugs" because they can have amnesiac effects, can be added to food or drink without a victim's knowledge, and are sometimes used in the commission of sexual assaults. By 2018 annual prevalence of Rohypnol for the *three grades combined* had declined by at least half since reaching its peak prevalence in the mid-1990s. In 2020, 1.0% of students in the combined grades had used Rohypnol in the prior 12 months—a significant increase from 0.5% in 2019 (ss). Questions on Ketamine and GHB were dropped for the lower grades after 2011 due to low prevalence. At 12th grade they were retained and have shown some decline in use since, from 0.8% in 2011 to 0.4% in 2019 (Table 6). (There were insufficient data in 2020 to make an estimate.)

Figure 14 **Ecstasy (MDMA)**: Trends in Annual Use, Risk, Disapproval, and Availability

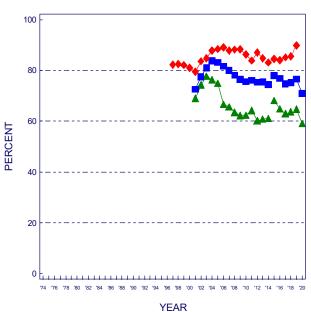
Grades 8, 10, 12



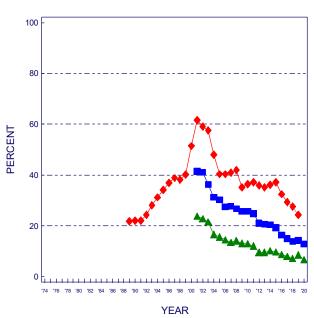
Risk
% seeing "great risk" in using once or twice



Disapproval % disapproving of using once or twice



Availability % saying "fairly easy" or "very easy" to get



^{*}Missing 12th grade estimates in 2020 are due to insufficient sample size because of the stop in data collection during the COVID-19 pandemic.

^{**}Note: for details on the 2019 estimates see note at the end of the Figures.

^{***}In 2014/2015, revised sets of questions on ecstasy were introduced in which molly was added to the description.

This likely explains the discontinuity in the results for those years.

Alcohol has been widely used by young people in the U.S. for a very long time. In 2020, the proportions of 8th, 10th, and 12th graders who reported drinking an alcoholic beverage in the 30-day period prior to the survey were 10%, 20%, and 34%, respectively. Various measures of alcohol use are presented in the tables at the end of this report. Because heavy alcohol consumption is of substantial concern from a public health perspective, we focus on "binge" drinking, defined as having five or more drinks in a row one or more times in the prior two weeks.

Trends in Use

Among 12th graders, binge drinking peaked in 1979 along with overall illicit drug use. The prevalence of binge drinking then declined substantially from 41% in 1983 to 28% in 1992, a drop of almost one third (also the low point of any illicit drug use). Although illicit drug use rose sharply in the 1990s, binge drinking rose by only a small fraction, and that rise was followed by some decline at all three grades. By 2020, proportional declines since the recent peaks reached in the 1990s were 66%, 60%, and 47% for grades 8, 10, and 12, respectively (Table 8). It is clear from the figure in the first panel of Figure 15 that the declines in use have leveled in the last four years. Indeed, we see some upward tilting in 2020, when prevalence levels for binge drinking were 5%, 10%, and 17% for grades 8, 10, and 12, respectively (Table 9).

In 2005 two measures of *extreme binge drinking* (also called high-intensity drinking) were introduced at 12th grade—one based on having 10 or more drinks in a row in the past two weeks, which was later added to 8th and 10th grades in 2016. The second question, based on having 15 or more drinks in a row in the past two weeks, was asked only in 12th grade (see Table 9). The prevalence of these behaviors has declined substantially since then. For 10+ drinks it declined to 0.9% and 2.5% for 8th and 10th graders in 2020. For 15+ drinks it declined to 3.2% among 12th graders in 2019, which is a relative decline of 44% since 2005. (There are insufficient data to report the prevalence level for 12th graders in 2020.)

Perceived Risk

Across the past four decades, since the MTF study began, the majority of 12th graders have not viewed binge drinking on weekends as carrying a great risk. However, an increase from 36% to 49% occurred between 1982 and 1992 as use declined substantially. By 1997 a decline in

risk occurred (to 43%) as use rose, before risk stabilized. After 2003, perceived risk rose in all grades, at least through 2011 or 2012, after which it either leveled or declined some in all grades. These changes are consistent with changes in actual binge drinking. We believe that the public service advertising campaigns in the 1980s against drunk driving, as well as those that urged use of designated drivers when drinking, contributed to the increase in perceived risk of binge drinking generally. (Drunk driving by 12th graders declined during that period by an even larger proportion than binge drinking.) Also, we showed that increases in the minimum drinking age during the 1980s were followed by reductions in drinking and increases in perceived risk associated with drinking, policy-driven effects that may still be deterring alcohol use among adolescents.⁷ There were insufficient 12th grade data in 2020 to make an estimate; and the declines in the lower grades that year may be due to small samples.

Disapproval

Disapproval of weekend binge drinking moved fairly parallel with perceived risk, suggesting that such drinking (and very likely the drunk-driving behavior associated with it) became increasingly unacceptable in the peer group. Note that the rates of disapproval and perceived risk for weekend binge drinking are higher in the lower grades than in 12th grade. As with perceived risk, disapproval increased appreciably in all grades, though it leveled after 2012 among 8th graders and after 2016 among 10th graders. In 2019, 12th graders showed a decline in disapproval as did 10th graders in 2020. (There are insufficient data for a 12th grade estimate in 2020.)

Availability

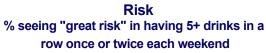
Perceived availability of alcohol, which until 1999 was asked only of 8th and 10th graders, was very high and mostly steady in the early 1990s. Since 1996, however, there have been substantial declines in 8th and 10th grades. For 12th grade, availability has declined only modestly with 84% in 2019 still saying that alcohol would be fairly or very easy to get. (There is no 2020 estimate due to insufficient cases.) Overall, it appears that states, communities, and parents have been successful in reducing adolescents' access to alcohol, particularly among the younger teens. Much room for further declines in availability still remains, however. (Note that the breaks between 2018 and 2019 are likely amplified by mode effects that year.)

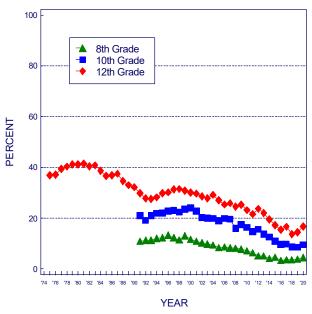
O'Malley, P. M., & Wagenaar, A. C. (1991). Effects of minimum drinking age laws on alcohol use, related behaviors, and traffic crash involvement among American youth: 1976-1987. *Journal of Studies on Alcohol, 52*, 478-491.

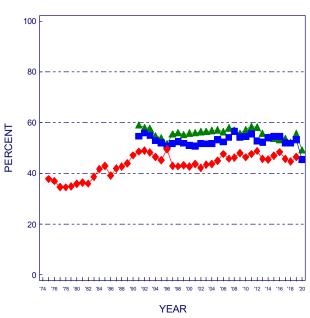
Figure 15 Alcohol: Trends in Binge Drinking, Risk, Disapproval, and Availability Grades 8, 10, 12

Use

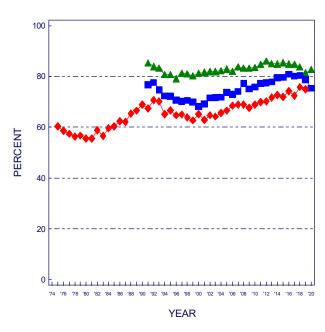
% who had 5+ drinks in a row at least once in past two weeks



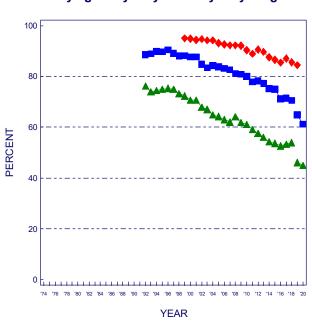




Disapproval % disapproving of having 5+ drinks in a row once or twice each weekend



Availability % saying "fairly easy" or "very easy" to get



^{*}Missing 12th grade estimates in 2020 are due to insufficient sample size because of the stop in data collection during the COVID-19 pandemic.

^{**}Note: for details on the 2019 estimates see note at the end of the Figures.

Cigarette smoking is the leading cause of preventable disease and mortality, and is responsible for more than 480,000 deaths per year in the United States. Cigarette use is usually initiated in adolescence, making smoking at this life stage particularly worrisome and important to study.

Trends in Use

Differences in smoking rates between various birth cohorts (or, in this case, school class cohorts) tend to stay with those cohorts throughout the life cycle. This means that it is critical to prevent smoking very early. It also means that the trends in a given historical period may differ across various grade levels as changes in use occurring earlier in adolescence work their way up the age spectrum as each cohort ages (i.e., as "cohort effects").

Among 12th graders, 30-day prevalence of smoking reached a peak in 1976 at 39% (likely having peaked earlier at lower grade levels as these same class cohorts passed through them in previous years.) After about a one quarter drop in 12th-grade 30-day prevalence between 1976 and 1981, the rate remained remarkably stable until 1992 (28%). In the 1990s, smoking began to rise sharply, after 1991 among 8th and 10th graders and after 1992 among 12th graders. Over the next four to five years, smoking rates increased by about one half in the lower two grades and by almost one third in grade 12—very substantial increases, to which MTF drew considerable public attention. This dramatic increase in smoking may well have contributed to the increase in nearly all forms of drug use during this relapse period. Smoking peaked in 1996 for 8th and 10th graders and in 1997 for 12th graders before beginning a fairly steady and substantial decline that continued through 2019 for 10th and 12th graders and levelled in 2017 for 8th graders after about 2002. Still, by 2020, 30-day prevalence levels had fallen from peak levels by 90%, 89%, and 79% in grades 8, 10, and 12, respectively (note that prevalence among 12th graders showed a nonsignificant rise of 1.8 percentage points in 2020). An increase in 2009 in federal taxes on cigarettes (from \$0.39 to \$1.01 per pack) may have contributed to the declines in use. Of particular importance, smoking initiation by 8th graders declined by more than three fourths from a peak of 49% in 1996 to 12% by 2020. These changes are of tremendous importance to the eventual health and longevity of this generation of adolescents. (Note: the rapid rise in vaping nicotine is addressed in a section below.)

Perceived Risk

Among 12th graders, the proportion seeing great risk in pack-a-day smoking rose before and during the first

period of decline in use in the late 1970s. Risk leveled in 1980 (before use leveled), declined a bit in 1982, but then started to rise again gradually for five years. (It is possible that cigarette advertising effectively offset the influence of rising perceptions of risk during that period.) Perceived risk fell some in the early 1990s at all three grade levels as use increased sharply. A long period of increase followed; but risk has fallen back some in 10th and 12th grades over the last five or six years, while remaining fairly level among 8th graders since 2006. Note the differences in the extent of perceived risk among grade levels. There is a clear age effect: by the time most fully appreciate the hazards of smoking, many already have initiated the behavior.

Disapproval

Disapproval rates for pack-a-day smoking have been fairly high throughout the study and, unlike perceived risk, they have been higher at the lower grade levels, though as disapproval has risen those differences have almost been eliminated. Among 12th graders, there was a gradual increase in disapproval of smoking from 1976 to 1986, followed by some erosion over the next decade through 1997 as use rose. After 1997, disapproval rose for some years in all three grades, but leveled briefly after 2006 or 2007, before rising even more. We measure a number of other smoking-related attitudes which became increasingly negative, but leveled off nine or ten years ago (see Table 3 in the 2016 MTF press release on teen tobacco use). So, disapproval has leveled in the lower grades, perceived risk is declining in the upper grades, and other attitudes and beliefs about cigarette smoking are no longer moving in a direction that would discourage use. This suggests that external changes in the environment may be required to further reduce youth smoking, such as reducing availability.

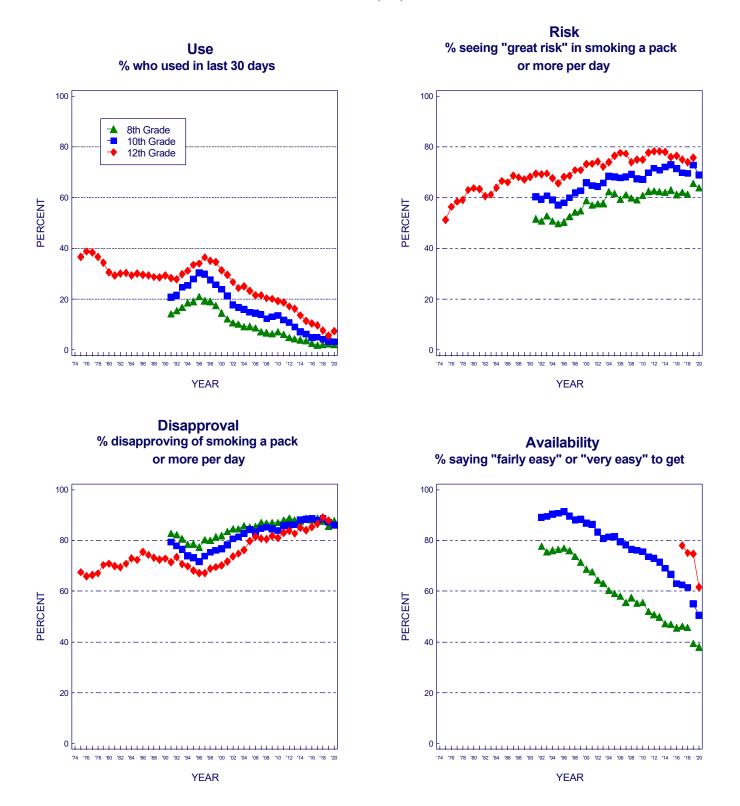
Availability

Since 1996, cigarette availability has declined considerably among 8th and 10th graders. Some 38% of 8th graders and 50% of 10th graders now say that cigarettes would be very easy or fairly easy to get, down from 78% in 1992 among 8th graders and 91% in 1995 among 10th graders. (Both grades showed further declines in 2019 specifically.) An availability measure was added for 12th graders in 2017: it has declined since from 78% to 62% in 2020, with a statistically significant, absolute 9.3% decline from 2019 to 2020. The large declines in 2020 may in part reflect the effects of the Tobacco 21 act,

which raised the age of legal purchase to 21 and went into force in January $2020.^8$

 $^{^8 \} See: https://www.congress.gov/bill/116th-congress/senate-bill/1258/text$

Figure 16
Cigarettes: Trends in 30-Day Use, Risk, Disapproval, and Availability
Grades 8, 10, 12



^{*}Missing 12th grade estimates in 2020 are due to insufficient sample size because of the stop in data collection during the COVID-19 pandemic.

^{**}Note: for details on the 2019 estimates see note at the end of the Figures.

Smokeless Tobacco

Traditionally, smokeless tobacco has come in two forms: "snuff" and "chew." Snuff is finely ground tobacco usually sold in tins, either loose or in packets. It is held in the mouth between the lip or cheek and the gums. Chew is a leafy form of tobacco, usually sold in pouches. It too is held in the mouth and may, as the name implies, be chewed. In both cases, nicotine is absorbed by the mucous membranes of the mouth. These forms are sometimes called "spit" tobacco because users expectorate the tobacco juices and saliva (stimulated by the tobacco) that accumulate in the mouth. "Snus" (rhymes with goose) is a variation on smokeless tobacco, as are some other dissolvable tobacco products that literally dissolve in the mouth. Given that snus appeared to be gaining in popularity, separate items regarding past-year use of snus and dissolvable tobacco were added to the 12th grade surveys in 2011 and to the 8th and 10th grade surveys in 2012. In addition, in 2011 snus and dissolvable tobacco were added as examples in the long-standing general question on smokeless tobacco.

Trends in Use

The use of smokeless tobacco by teens has been decreasing gradually, and 30-day prevalence is now less than half of the recent peak levels in the early 1990s, though there was a reversal of the declines from about 2006 through 2010—especially in the upper grades. Among 8th graders, 30-day prevalence declined from a 1994 peak of 7.7% to 2.2% by 2020. Among 10th graders, use declined from a 1994 peak of 10.5% to 3.2% in 2020. Among 12th graders, 30-day use declined from a 1995 peak of 12.2% to 6.1% by 2006 then rose to 8.5% in 2010, before falling back to 3.5% in 2019 (the latest year for which an estimate is available in this grade). Thirty-day prevalence of daily use of smokeless tobacco fell gradually but appreciably for some years. Daily usage rates in 2020 were 0.5% and 0.7% in grades 8 and 10, respectively—down substantially from peak levels recorded in the 1990s—but most of the declines occurred in the 1990s, not since. Daily use in 12th grade in 2019 was 1.1% and no 2020 estimate is available.

Smokeless tobacco use among young people in the U.S. is predominantly by males. The 2020 data are unavailable due to insufficient numbers, but in 2019 among males the 30-day prevalence rates were 3.3%, 5.3%, and 5.7% in

grades 8, 10, and 12, versus 1.6%, 1.4%, and 1.1% for females.

Annual prevalence in 2020 for **snus** was 1.6% and 2.2%, among 8th and 10th graders and 2.7% in 2019 for 12th graders, reflecting a decline since 2012 in all three grades.

For *dissolvable tobacco*, the corresponding figures were 0.6%, 1.3%, and 1.1%, reflecting little change since 2012. (See Table 6 for trends.)

Perceived Risk

The year 1995 was a low point in the level of perceived risk for smokeless tobacco in all three grades (though for 12th graders it was considerably lower in the mid-1980s). For a decade following 1995, there was a gradual but substantial increase in proportions saying that there is a great risk in using smokeless tobacco regularly. It thus appears that one important reason for the appreciable declines in smokeless tobacco use during the latter half of the 1990s was that an increasing proportion of young people were persuaded of the dangers of using it. However, the increases in perceived risk ended by 2004 in 12th grade, and it has declined some in all three grades until around 2014 through 2016. The decline could be due to generational forgetting of the dangers of use, the increased marketing of snus and other smokeless products, and/or public statements about smokeless tobacco use being relatively less dangerous than cigarette smoking. Since around 2016, however, we have seen some increases in perceived risk in all three grades (though there is no estimate in 2020 for 12th grade).

Disapproval

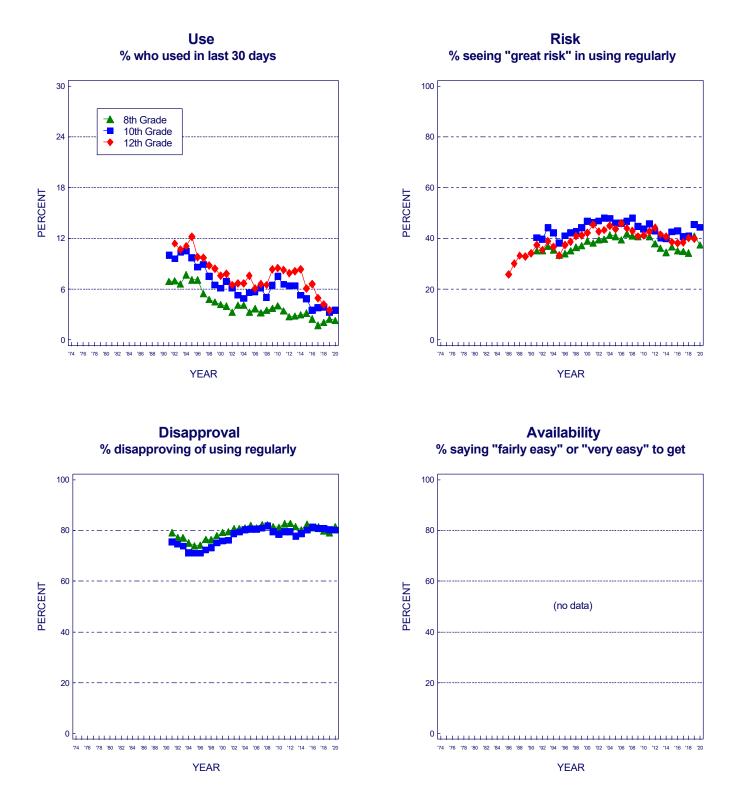
Only 8th and 10th graders have been asked about their personal disapproval of using smokeless tobacco regularly. The most recent low points for disapproval in both grades were 1995 and 1996. Disapproval rose among 8th graders from 74% in 1996 to 82% in 2005, where it was in 2020 (81%). For 10th graders, disapproval rose from 71% in 1996 to 82% in 2008, also where it was in 2020 (80%).

Availability

There are no questions on perceived availability of smokeless tobacco.

Figure 17
Smokeless Tobacco: Trends in 30-Day Use, Risk, and Disapproval

Grades 8, 10, 12



^{*}Missing 12th grade estimates in 2020 are due to insufficient sample size because of the stop in data collection during the COVID-19 pandemic.

^{**}Note: for details on the 2019 estimates see note at the end of the Figures.

Vaping

Vaping involves the use of a battery-powered device to heat a liquid or plant material that releases chemicals in an inhalable aerosol. Examples of vaping devices include e-cigarettes such as the popular brand JUUL, Puff Bars, and "mods." Contents of the aerosol may include nicotine, the active ingredients of marijuana, flavored propylene glycol, and/or flavored vegetable glycerin. The liquid that is vaporized comes in hundreds of flavors, many of which are likely to be attractive to teens (e.g., bubble gum and mint).

Starting with the 2017 survey, separate questions were included on vaping of nicotine, marijuana, and "just flavoring." Questions in previous years asked only about vaping in general, and then asked about the substance vaped at last use.

Trends in Use

Levels of *nicotine vaping* in the prior year increased dramatically in 2018 and continued to do so into 2019. From 2017 to 2019 nicotine vaping increased by 9.0, 14.9, and 16.5 percentage points in 8th, 10th, and 12th grades, which are among the largest increases ever recorded for any substance in the 46 years that MTF has tracked adolescent drug use. These increases yielded 2019 annual prevalence rates of 16.5%, 30.7%, and 35.5%, respectively.⁹ (Additionally, some students may get nicotine in what they vape without being aware of it, so these prevalence levels should be considered conservative.¹⁰) In 2020 this rapid pace of increase paused and a slight decrease (though not statistically significant) appeared in the upper grades and a leveling at 8th grade (Table 7 and Figure 18).

Levels of *marijuana vaping* also increased significantly in 2018 and 2019. In 2019 annual marijuana vaping prevalence levels reached 7.0% (+2.6 sss from 2018), 19.4% (+7.0 sss), and 20.8% (+7.7 sss) among 8th, 10th, and 12th graders, respectively. These annual levels are quite close to the levels for *lifetime* prevalence of vaping marijuana, indicating that marijuana vaping occurs mainly among established marijuana users. In 2020 marijuana prevalences rates declined to 11.3% (-1.3%, ns) and 12.2% (-1.8% ns) in 10th and 12th grades, respectively, while 8th graders showed virtually no change

⁹Miech, R., Johnston, L., O'Malley, P. M., Bachman, J. G., & Patrick, M. E. (2018). Adolescent vaping and nicotine use in 2017-2018 - U.S. national estimates. New England Journal of Medicine, 380(2), 192-193.
 ¹⁰ Miech, R. A., Johnston, L. D., O'Malley, P. M., and Terry-McElrath, Y. M. (2019). The national prevalence of adolescent nicotine use in 2017: Estimates taking into account student reports of substances vaped. Addictive Behaviors

Reports.

at 4.2% (+0.3%).

Levels of *vaping 'just flavoring'* increased significantly in 2018 but turned down in 2019 and again in 2020 in all three grades, with 30-day prevalence reaching 6.8%, 10.4%, and 8.4% in the three grades in 2020.

Evidence is accumulating, including from MTF, that vaping predicts future cigarette experimentation. ^{11,12} Thus high levels of vaping threaten to reverse some of the progress made in reducing cigarette smoking among U.S. adolescents over the past two plus decades. The large increase in nicotine vaping could lead to a stall in the decline in cigarette smoking, or even an increase in adolescent smoking, after a long period of decline in smoking.

Perceived Risk

Perceived risk of nicotine vaping increased dramatically in 2020 (Table 10). The percentage of students who considered "great risk" in vaping nicotine regularly was 53.1% (+9.5 sss) in 8th grade, 48.6% (+9.4 sss) in 10th grade, and 49.9% (+9.3 sss) in 12th grade, which may help to explain the decline or leveling in use that year.

Disapproval

Disapproval of regular use of e-cigarettes also has been relatively low compared to most other substances (not charted). In 2017 these questions were replaced with questions about disapproval of vaping an e-liquid with nicotine on a regular basis. In 2020, disapproval rose significantly in 12th grade to 78% (+6.8 sss). Eighth and 10th grades rose nonsignificantly to 79.1% (+5.7 ns) and 74.6% (+3.4 ns), respectively.

Availability

Data on availability of vaping devices were first gathered in 2017 (Tables16-18). They showed high and rising levels of availability until 2020, when there was a downturn in the upper grades. In 2020 vaping devices were seen as fairly easy or very easy to get by 43% (+1.9% ns), 61% (-3.4% ns), and 75% (-6.0% ns) among 8th, 10th, and 12th graders. Availability of nicotine e-liquid was also down in 2020 at 38% (-1.2% ns), 58% (-5.9% ns), and 75% (-7.1% s).

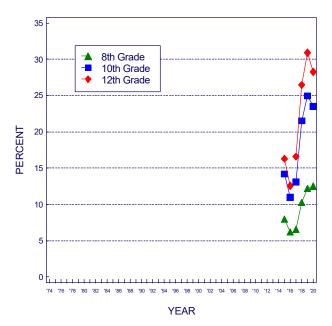
¹¹ Miech, R. A., Patrick, M. E., O'Malley, P. M., & Johnston, L. D. (2017). Ecigarette use as a predictor of cigarette smoking: Results from a 1-year follow-up of a national sample of 12th grade students. *Tobacco Control*, 26(e2), e106-e111.

¹² Soneji, S., Barrington-Trimis, J. L., Wills, T. A., Leventhal, A. M., Unger, J. B., Gibson, L. A., . . . Sargent, J. D. (2017). <u>Association between initial use of ecigarettes and subsequent cigarette smoking among adolescents and young adults: A systematic review and meta-analysis</u>. *JAMA Pediatrics*, 171(8), 788-797.

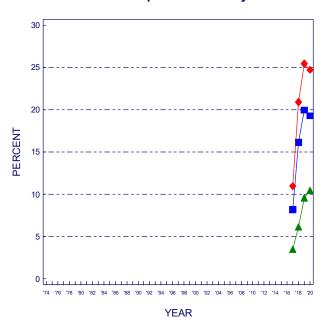
Figure 18
Vaping: Trends in 30-Day Use

Grades 8, 10, 12

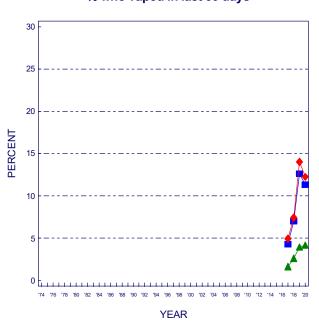
Any Vaping % who vaped in last 30 days



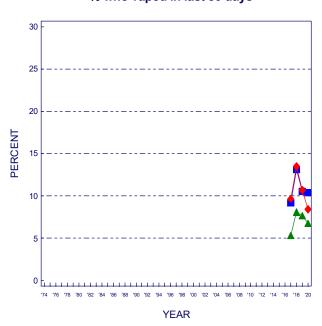
Vaping Nicotine % who vaped in last 30 days



Vaping Marijuana % who vaped in last 30 days



Vaping Just Flavoring % who vaped in last 30 days



^{*}Note: for details on the 2019 estimates see note at the end of the Figures.

^{**}In 2017, the surveys switched from asking about vaping in general to asking separately about vaping nicotine, marijuana, and just flavoring. Beginning in 2017, data presented for any vaping are based on these new questions.

Other Tobacco Products

Twelfth graders were first asked about smoking small cigars and smoking tobacco using a hookah (water pipe) in 2010. These questions were not asked of 8th and 10th graders initially, but are now. Only the prevalence and frequency of use in the past 12 months were asked; we use this prevalence period to determine whether additional questions on the substance may be warranted in future surveys. Small cigar and hookah use are charted separately in Figure 19. Sample sizes were not large enough in 2020 to provide estimates of prevalence for either outcome in 12th grade.

Smoking Tobacco Using a Hookah. The past 12-month prevalence of hookah use rose after it was first measured in 2010, from 17.1% in 2010 to 22.9% in 2014; but it then declined sharply to 5.6% by 2019. (Insufficient cases in 2020.) Only about 3% of the 12th grade students in 2019 indicated use on more than three or more occasions during the prior 12 months, suggesting that a considerable amount of hookah use is light or experimental.

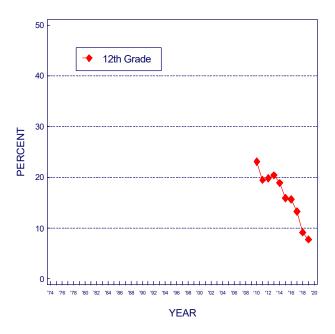
Small (little) Cigars and Cigarellos. In a set of questions introduced in 2014 we asked about the use in the prior 30 days of little cigars OR cigarillos. (Cigarillos lie between little cigars and large cigars in size-length and thickness—and are wrapped in tobacco leaf like large cigars. They also fall into the lower federal taxation bracket than cigarettes do.) Small or little cigars are the approximate size and shape of a cigarette, but they are classified as cigars because they are wrapped in brown paper, which contains some tobacco leaf, rather than in white paper. There are flavored and regular small cigars, with the flavored being more popular among youth. Since 2014 or 2015, when we first measured both types, we have seen a decline in 30-day prevalence (Table 7). In 2020 for flavored little cigars it was 2.3% and 3.0% in grades 8 and 10, respectively, and for regular little cigars or cigarillos it was 1.4% and 2.4%. Overall, use of both types is in decline.

Using longer term data on 12th graders only of smoking small cigars of any type (not distinguishing between flavored and unflavored), we find that use has been declining since 2010, when annual prevalence in 12th grade was 23%; it was 8% in 2019. (Figure 19: 2020 data not available.) The increases in the federal taxes on tobacco products, instituted in 2009, may well have played a role in decreasing the use of small cigars. The tax increase on a pack of small cigars fell under the same regulations as regular cigarettes (rising from \$0.39 to \$1.01 per pack). Some producers of small cigars subsequently increased the weight of their cigars slightly (taxation is based on weight, with cigars falling into a higher weight class with a lower tax rate) in order to avoid the higher taxes placed on cigarettes and to remove them from FDA control under current law. Four percent of 12th graders indicated having used small cigars on more than two occasions during the past year in 2019, and only 1% on more than 20 occasions, so they tend to be smoked much less frequently than regular cigarettes. (Insufficient 12th grade sample in 2020.) A concern in the public health community is that these products will have the effect of reversing the hard-won gains in reducing cigarette smoking among youth. Small cigars contain nicotine and combustible tobacco as do cigarettes, and therefore carry similar dangers.

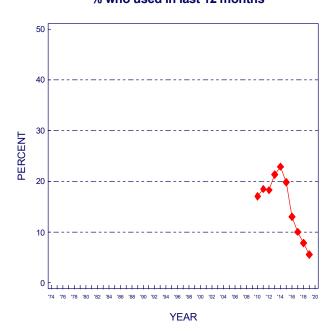
Large Cigars. A question on the 30-day prevalence of smoking large cigars also was added in 2014. The 2020 rates were 1.5% in 8th grade and 1.2% in 10th grade—reflecting a fair decline of over two-thirds in 10th grade (Table 7). In 8th grade prevalence levels have remained largely unchanged since 2014 when large cigars were first measured. Twelfth grade has shown only a modest decline from 2014 through 2019, with 2020 estimates unavailable due to a limited sample size.

Figure 19
Small Cigars and Tobacco using a Hookah: Trends in Annual Use
Grade 12

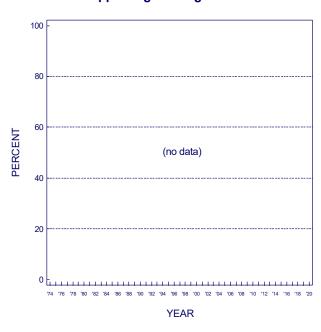




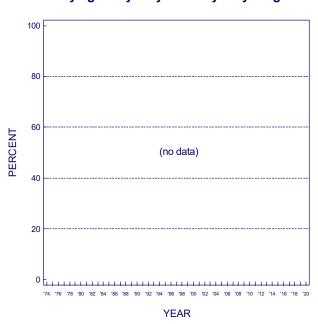
Use of Tobacco with a Hookah % who used in last 12 months



Disapproval % disapproving of using once or twice



Availability
% saying "fairly easy" or "very easy" to get



Source. The Monitoring the Future study, the University of Michigan. *Note: for details on the 2019 estimates see note at the end of the Figures.

Unlike many other drugs discussed in this Overview, anabolic steroids are not usually taken for their psychoactive effects, though they may have some, but rather for muscle and strength development. However, they are similar to most other drugs studied here in two respects: they are controlled substances for which there is an illicit market, and they can have adverse consequences for the user. Questions about steroid use were added beginning in 1989. Respondents are asked: "Steroids, or anabolic steroids, are sometimes prescribed by doctors to promote healing from certain types of injuries. Some athletes, and others, have used them to try to increase muscle development. The question asks, "On how many occasions (if any) have you taken steroids on your own that is, without a doctor telling you to take them?" In 2006, the question text was changed slightly in some questionnaire forms—the phrase "to promote healing from certain types of injuries" was replaced by "to treat certain conditions." The resulting data did not show any effect from this rewording. In 2007, the remaining forms were changed in the same manner.

Trends in Use

Anabolic steroids have been used predominately by males; therefore, data based on all respondents can mask the higher rates and larger fluctuations that occur among males. (For example, in 2019, annual prevalence levels were 0.7%, 1.1%, and 1.4% for boys in grades 8, 10, and 12, compared with 0.9%, 0.6%, and 0.6% for girls.) Between 1991 and 1998, the overall annual prevalence level was fairly stable among 8th and 10th graders, ranging between 0.9% and 1.2% (as use among 12th graders increased). In 1999, however, use among both 8th and 10th graders increased from 1.2% to 1.7%. (Almost all of that increase occurred among boys, increasing from 1.6% in 1998 to 2.5% in 1999 in 8th grade and from 1.9% to 2.8% in 10th grade.) Thus, levels among boys increased by about half in a single year. The fact that it was the year following Mark McGwire hitting a record number of home runs and admitting using androstenedione (a steroid precursor) is likely not a coincidence. By 2020 among all 8th graders, steroid use had declined by about two-thirds to 1.1%. Among 10th graders, use continued to increase slightly—perhaps reflecting a cohort effect—reaching 2.2% in 2002, but then declined by about two-thirds to 0.9% by 2020. In 12th grade, there was a different trend story. With data going back to 1989, we can see that steroid use first fell from 1.9% overall in 1989 to 1.1% in 1992—the low point. From 1992 to 2000, there was a more gradual increase in use, reaching 1.7% in 2000. In 2001, use rose significantly among 12th graders to 2.4% (possibly reflecting a cohort effect). Twelfth graders' use decreased significantly in 2005 to 1.5%, then stayed fairly level through 2015 (1.7%), and then declined significantly in 2016 to 1.1% with little change since then. Use is now down from recent peak levels by about two thirds among 8th and 10th graders, and about six tenths among 12th graders. (The use of androstenedione—a steroid precursor—has also declined sharply since 2001, most sharply through 2007. It was classified as a Schedule II controlled substance in 2005 by the DEA.) Note that there has been some increase in steroid use in recent years, with the increase showing up sequentially across grades.

Perceived Risk

Perceived risk and disapproval were asked of 8th and 10th graders for only a few years. All grades seemed to have a peak in perceived risk around 1993. The longer-term data from 12th graders show a ten percentage-point drop between 1998 and 2000. A change this sharp is quite unusual and highly significant, suggesting that some particular event or events in 1998—quite possibly publicity about use of androstenedione by a famous home-run-hitting baseball player, Mark McGwire made steroids seem less risky. It seems likely that perceived risk dropped substantially in the lower grades as well, consistent with the sharp upturn in their use that year. By 2006, perceived risk for 12th graders was up to 60%, with little change until 2013 when it showed a significant 4.4 percentage point decline. In 2019 it stood at 51% among 12th graders. (There were insufficient cases in 2020 to make an estimate for 12th graders.)

Disapproval

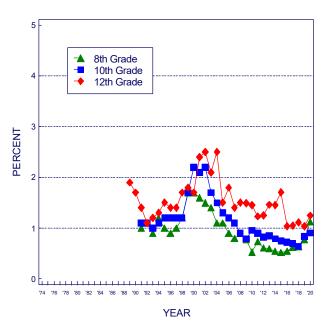
Among 12th graders, disapproval of steroid use has been quite high for some years. Between 1998 and 2003, there was a modest decrease, though not as dramatic as the drop in perceived risk. From 2003 to 2008, disapproval rose some—as perceived risk rose and use declined—then leveled and declined from 2012 through 2014, before leveling. In 2019 it rose some to 89%.

Availability

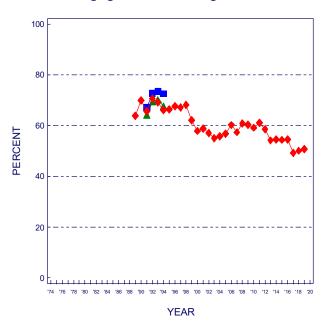
Perceived availability of steroids was relatively high prior to 2001 or 2002, but declined appreciably at all grades and in 2019 it was at the lowest levels recorded by the study, after a drop that year in all three grades—significant in the two upper grades. The lower grades continued to decline in 2020 (ns), but that cannot be determined for 12th graders in 2020 due to limited sample. A number of steroids have been scheduled by the DEA, likely contributing to the drop in availability.

Figure 20
Steroids: Trends in Annual Use, Risk, Disapproval, and Availability
Grades 8, 10, 12

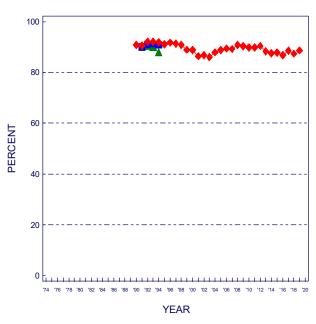




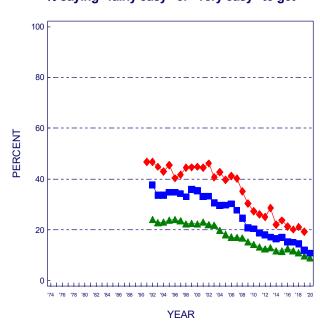
Risk % seeing "great risk" in using once or twice



Disapproval % disapproving of using once or twice



Availability
% saying "fairly easy" or "very easy" to get



 ${\it Source}. \ \ \, {\it The Monitoring the Future study}, the \ {\it University of Michigan}.$

^{*}Missing 12th grade estimates in 2020 are due to insufficient sample size because of the stop in data collection during the COVID-19 pandemic.

^{**}Note: for details on the 2019 estimates see note at the end of the Figures.

^{***}Question discontinued in 8th- and 10th-grade questionnaires in 1995.

Note on 2019 Estimates

In 2019 a randomly-selected half of the respondents answered survey questions using electronic tables and the other half used paper and pencil. Drug prevalence estimates were the same across survey mode (documented here), while questions on the other topics were subject to survey mode effects in some cases. All 2019 drug prevalence estimates combine responses from electronic tables and paper. For estimates other than drug prevalence we use the mode that allows us direct comparison of the latest year and the penultimate year of estimates without mode effects. Specifically, we report tablet-based 2019 estimates for outcomes with 2020 estimates (when all respondents used tablets) and we report paper-based 2019 respondents when 2019 estimates are the most recent reported (for direct comparison with 2018 estimates, when all respondents used paper).

Subgroup Differences

Understanding the important subgroup variations in substance use among the nation's youth allows for more informed considerations of substance use epidemiology, etiology, and prevention. It also helps to prioritize prevention and treatment efforts. In this section, we usually present a brief overview of some of the major demographic subgroup differences we have observed over the years. However, this year we do not have sufficient data to extend the period covered into 2020. This is due to there being insufficient numbers of cases in the various subgroups in 2020 resulting from the early termination of our field data collections caused by the pandemic.

The MTF occasional paper on subgroup data provides tables giving *cross-time trends* in the subgroup prevalence levels for all of the classes of drugs discussed here and, importantly, *figures* showing the subgroup trends for all drugs. The version of this occasional paper

incorporating the 2019 results was published in February, 2020. The *figures* in the occasional paper present easily accessible views of trends and comparisons while its tables provide the specific numbers behind the figures. For a synopsis of the findings on major subgroup differences in substance use up through 2019, see <u>last year's volume</u> in this series, starting on page 49. Subgroup differences are discussed with regard to gender, race/ethnicity, college plans, region of the country, population density, and socioeconomic level.

Chapters 4 and 5 of last year's <u>Volume I</u> have a more detailed discussion of these subgroup differences through 2019. <u>MTF Occasional Paper 92</u> provides tables giving cross-time trends in the subgroup prevalence levels for all of the classes of drugs discussed here for each grade level and through 2019, more importantly, figures showing the subgroup trends for all drugs at each grade level.

Implications for Prevention

The wide divergence in historical trajectories of the various drugs over time helps to illustrate that, to a considerable degree, the determinants of use are often specific to each drug. These determinants include both perceived benefits and perceived adverse outcomes that young people come to associate with each drug, as well as environmental factors such as the availability of each drug and peer norms about its use. The introduction of entirely new delivery devices, like vaporizers and edibles, can be another cause of variability over time.

The "Honeymoon Period" for New Drugs

Unfortunately, word of the supposed benefits of using a drug usually spreads much faster than information about the adverse consequences. Supposed benefits take only rumor and a few testimonials, the spread of which have been hastened and expanded greatly by the media in general, and in particular the internet and social media. It usually takes much longer for the evidence of adverse consequences (e.g., adverse reactions, disease, overdose, addiction, and death) to cumulate, be recognized, and then be disseminated. Thus, when a new drug comes onto the scene, it has a considerable "honeymoon period" during which its benefits are alleged and its consequences are not yet known. We believe that cocaine and ecstasy both illustrated this dynamic. Synthetic marijuana and socalled "bath salts" are two more recent examples. "Vaping" may have been in a honeymoon period, but evidence of adverse consequences is cumulating quickly and may have reversed the sharp upward trends in both nicotine vaping and marijuana vaping.

Although encouraging the avoidance or delay of *any* type of substance use is likely beneficial, especially at young ages, prevention efforts also need to be drug-specific. That is, to a considerable degree, prevention must occur drug by drug because people will not necessarily generalize the adverse consequences of the use of one drug to the use of others Many beliefs and attitudes held by young people are drug specific. The figures in this *Overview* on perceived risk and disapproval for the various drugs—attitudes and beliefs that we have shown to be important in explaining many drug trends over the years—amply illustrate this assertion. These attitudes and beliefs are at quite different levels for the various drugs and, more importantly, often trend quite differently over time.

Marijuana is one drug that is likely to be affected by some very specific policies, including medicalization and

legalization of recreational use by adults. The effects on youth behaviors and attitudes of recent changes in a number of states will need to be carefully evaluated and monitored to determine their longer-term effects. Currently, marijuana does not hold the same appeal for youth as it did in the past, and today's annual prevalence among 12th graders of 35% is considerably lower than rates exceeding 50% observed in the 1970s. However, if states that legalize recreational marijuana allow advertising and promotion of marijuana, and if Federal legislation legalizes recreational use without prohibiting advertising and promotion, then prevalence could rebound and approach or even surpass previous levels.

"Generational Forgetting" Helps Keep the Drug Epidemic Going

Another point worth keeping in mind is that there tends to be a continuous flow of new drugs onto the scene and of older ones being rediscovered by young people. Many drugs have made a comeback years after they first fell from popularity, often because knowledge among youth of their adverse consequences faded as generational replacement took place. We call this process "generational forgetting." Examples include LSD and methamphetamine, two drugs used widely in the 1960s that made a comeback in the 1990s after their initial popularity faded as a result of extensive media coverage of potential adverse consequences occurring primarily in periods of high use. Heroin, cocaine, PCP, and crack are some others that have followed a similar pattern. LSD, inhalants, and ecstasy have all shown some effects of generational forgetting in recent years—that is, perceived risk has declined appreciably for those drugs, particularly among the younger students—which puts future cohorts at greater risk of having a resurgence in use. In the case of LSD—one of the earliest drugs to attain substantial popularity—perceived risk among 8th graders has declined substantially, and more students are saying that they are not familiar with the drug.

As for newly emerging drugs, examples include nitrite inhalants and PCP in the 1970s; crack and crystal methamphetamine in the 1980s; Rohypnol, GHB, and ecstasy in the 1990s; dextromethorphan and salvia in the early 2000s; "bath salts" and "synthetic marijuana" in the 2010s; and vaping in the decade since 2010. The frequent introduction of new drugs (or new forms or new modes of administration of older drugs, as illustrated by vaping, crack, crystal methamphetamine, and non-injected heroin) helps keep this nation's drug problem alive. Because of the lag times described previously, the forces of containment are always playing catch-up with the

forces of encouragement and exploitation. Organized efforts to reduce the grace period for new drugs would seem to be among the most promising responses for minimizing the damage they will cause. Such efforts regarding ecstasy by the National Institute on Drug Abuse and others appeared to pay off. Perhaps recent efforts aimed at vaping will also be successful.

As for other approaches to prevention, it may be useful to emphasize that many street drugs should be considered dangerous simply because they are made and sold by people who seem to be totally unconcerned with adverse consequences for their users. Those who manufacture illicit drugs or liquids for vaping regularly experiment with different chemical formulations in order to avoid being charged under existing laws, and they make no effort to assess safety. Dealers at the distribution level, in an effort to build a reputation for selling powerful drugs, may mix highly potent drugs (e.g., fentanyl) into other drugs (e.g., heroin or other narcotics, marijuana), not attending to the danger such adulteration carries for the user and not telling their customers that they are "spiking" the drugs they sell. Some such drugs are extremely potent. As a result there are many drugs on the market with potential users having little or no information about their adverse effects, and many injuries and deaths result from their use. If young people understood this, they might be less likely to use drugs on the illicit market.

TABLE 1

Trends in Lifetime Prevalence of Use of Various Drugs for Grades 8, 10, and 12 Combined

(Entries are percentages.)

	<u>1991</u>	1992	<u>1993</u>	1994	1995	1996	1997	1998	<u>1999</u>	2000	2001	2002	2003	2004	2005
Any Illicit Drug ^b	30.4	29.8	32.1	35.7	38.9	42.2	43.3	42.3	41.9	41.0	40.9	39.5	37.5	36.4	35.7
Any Illicit Drug other than Marijuanab	19.7	19.7	21.2	22.0	23.6	24.2	24.0	23.1	22.7	22.1‡	23.2	21.1	19.8	19.3	18.6
Any Illicit Drug including Inhalants ^b	36.8	36.3	38.8	41.9	44.9	47.4	48.2	47.4	46.9	46.2	45.5	43.7	41.9	41.3	41.0
Marijuana/Hashish	22.7	21.1	23.4	27.8	31.6	35.6	37.8	36.5	36.4	35.3	35.3	34.0	32.4	31.4	30.8
Inhalants	17.0	16.9	18.2	18.6	19.4	19.1	18.6	18.1	17.5	16.4	15.3	13.6	13.4	13.7	14.1
Hallucinogens	6.1	6.3	7.0	7.7	8.9	10.0	10.2	9.5	9.0	8.5‡	9.2	7.6	6.9	6.3	5.9
LSD	5.5	5.7	6.5	6.9	8.1	8.9	9.1	8.3	7.9	7.2	6.5	5.0	3.7	3.0	2.6
Hallucinogens other than LSD	2.4	2.5	2.7	3.6	3.9	4.8	4.9	4.8	4.4	4.5‡	6.7	6.0	5.8	5.6	5.4
Ecstasy (MDMA) ^c	_	_	_	_	_	4.9	5.2	4.5	5.3	7.2	8.0	6.9	5.4	4.7	4.0
Cocaine	4.6	4.0	4.1	4.5	5.1	6.0	6.6	7.0	7.2	6.5	5.9	5.7	5.3	5.5	5.5
Crack	2.0	1.9	2.0	2.5	2.8	3.2	3.4	3.8	3.8	3.5	3.2	3.2	2.9	2.9	2.8
Other cocaine	4.1	3.5	3.6	3.9	4.2	5.2	5.9	6.1	6.3	5.6	5.1	4.8	4.5	4.7	4.7
Heroin	1.1	1.3	1.3	1.6	1.9	2.1	2.1	2.2	2.2	2.1	1.7	1.7	1.5	1.5	1.5
With a needle	_	_	_	_	1.1	1.2	1.1	1.1	1.3	1.0	0.9	0.9	0.9	0.9	0.9
Without a needle	_	_	_	_	1.3	1.7	1.7	1.6	1.6	1.8	1.3	1.3	1.3	1.2	1.1
Amphetamines ^b	12.9	12.5	13.8	14.3	15.2	15.5	15.2	14.5	14.0	13.5	13.9	13.1	11.8	11.2	10.3
Methamphetamine	_	_	_	_	_	_	_	_	6.5	6.2	5.8	5.3	5.0	4.5	3.9
Tranquilizers	5.5	5.3	5.4	5.5	5.8	6.5	6.6	6.9	7.0	6.9‡	7.9	7.9	7.3	7.1	6.8
Alcohol	80.1	79.2‡	68.4	68.4	68.2	68.4	68.8	67.4	66.4	66.6	65.5	62.7	61.7	60.5	58.6
Been drunk	46.3	44.9	44.6	44.3	44.5	45.1	45.7	44.0	43.7	44.0	43.4	40.5	38.9	39.4	38.4
Flavored alcoholic beverages	_	_	_	_	_	_	_	_	_	_	_	_	_	54.7	54.7
Cigarettes	53.5	53.0	54.0	54.6	55.8	57.8	57.4	56.0	54.5	51.8	49.1	44.2	40.8	39.6	37.4
Smokeless tobacco	_	26.2	25.6	26.3	26.0	25.7	22.7	21.1	19.4	17.9	16.6	15.2	14.1	13.6	13.8
Any Vaping ^d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vaping nicotine	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vaping marijuana	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vaping just flavoring	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Steroids	1.9	1.8	1.8	2.1	2.1	1.8	2.1	2.3	2.8	3.0	3.3	3.3	3.0	2.5	2.1

Table continued on next page.

TABLE 1 (continued) Trends in <u>Lifetime</u> Prevalence of Use of Various Drugs for Grades 8, 10, and 12 Combined

(Entries are percentages.)

																	Peak vear-	-2020 change	Low year-2020 change		
																2019-2020	Absolute	Proportional	Absolute	Proportional	
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 ^e	2020	<u>change</u>	change	change (%) a	change	<u>change</u>	
Any Illicit Drug ^b	34.0	32.7	32.6	33.2	34.4	34.7	34.1	36.0‡	34.9	34.3	32.6	33.4	33.9	34.8	34.7	-0.1	-0.2	-0.5	+2.1	+6.4	
Any Illicit Drug other than Marijuana ^b	18.2	17.7	16.8	16.5	16.8	16.1	15.5	16.8‡	15.8	15.1	14.3	14.0	14.2	14.2	14.3	+0.1	-1.5	-9.7	+0.3	+2.1	
Any Illicit Drug including Inhalants ^b	39.3	38.0	37.9	37.9	38.8	38.7	37.9	39.3±		37.4	34.9	36.5	36.6	37.8	38.3	+0.5	_	_	+3.4 s	+9.9	
Marijuana/Hashish	28.9	27.9	27.9	29.0	30.4	31.0	30.7	32.0	30.5	30.0	28.6	29.3	29.7	30.6	30.2	-0.4	-7.5 sss	-20.0	+2.3	+8.4	
Inhalants	13.7	13.5	13.1	12.5	12.1	10.6	10.0	8.9	8.8	7.5	6.5	6.7	6.6	7.3	8.1	+0.8	-11.3 sss	-58.4	+1.6 s	+24.6	
Hallucinogens	5.7	5.8	5.6	5.3	5.8	5.7	5.0	5.0	4.3	4.3	4.3	4.2	4.1	4.6	5.0	+0.4	-4.1 sss	-45.1	+0.9	+21.5	
LSD	2.5	2.6	2.7	2.5	2.8	2.7	2.5	2.6	2.4	2.8	3.1	3.1	3.0	3.5	3.9	+0.4	-5.2 sss	-57.5	+1.4 sss	+59.9	
Hallucinogens other than LSD	5.2	5.1	4.8	4.7	5.0	4.9	4.3	4.1	3.5	3.1	3.0	2.9	2.8	3.1	3.3	+0.3	-3.3 sss	-50.0	+0.5	+18.0	
Ecstasy (MDMA) ^c	4.3	4.5	4.1	4.6	5.5	5.5	4.6	4.7±	5.0	4.0	3.1	3.0	2.7	2.7	2.6	-0.1	-2.4 sss	-48.3	_	_	
Cocaine	5.3	5.2	4.8	4.2	3.8	3.4	3.3	3.1	2.9	2.7	2.3	2.5	2.6	2.4	2.4	-0.1	-4.8 sss	-67.0	0.0	+1.6	
Crack	2.6	2.5	2.2	2.0	1.9	1.6	1.5	1.5	1.3	1.3	1.0	1.1	1.1	1.1	1.0	-0.1	-2.8 sss	-72.9	0.0	+1.7	
Other cocaine	4.7	4.6	4.1	3.7	3.4	3.1	2.9	2.7	2.5	2.3	2.1	2.1	2.3	2.1	2.2	+0.1	-4.0 sss	-64.5	+0.1	+7.1	
Heroin	1.4	1.4	1.3	1.4	1.4	1.2	1.0	1.0	0.9	0.7	0.6	0.6	0.6	0.6	0.4	-0.2	-1.8 sss	-82.3	_	_	
With a needle	0.9	0.8	0.8	0.8	0.9	0.8	0.6	0.7	0.7	0.5	0.4	0.4	0.4	0.4	0.2	-0.2	-1.1 sss	-82.4	_	_	
Without a needle	1.0	1.0	0.9	0.9	1.0	0.9	0.7	0.7	0.6	0.5	0.4	0.4	0.4	0.4	0.3	-0.1	-1.5 sss	-85.1	_	_	
Amphetamines ^b	10.1	9.5	8.6	8.6	8.9	8.6	8.3	10.5‡	9.7	9.1	8.1	7.7	7.7	7.6	7.8	+0.2	-1.9 ss	-19.9	+0.2	+2.6	
Methamphetamine	3.4	2.5	2.5	2.2	2.2	1.8	1.6	1.5	1.4	1.1	0.8	0.9	0.7	0.8	1.2	+0.4	-5.4 sss	-81.8	+0.4	+59.6	
Tranquilizers	7.0	6.7	6.3	6.5	6.6	6.0	5.8	5.2	5.3	5.2	5.5	5.6	5.4	5.3	5.2	0.0	-2.6 sss	-33.3	0.0	+0.5	
Alcohol	57.0	56.3	55.1	54.6	53.6	51.5	50.0	48.4	46.4	45.2	41.9	41.7	<u>41.2</u>	41.5	44.0	+2.5 s	-24.8 sss	-36.0	+2.8 s	+6.7	
Been drunk	37.6	36.6	35.1	35.9	34.2	32.5	32.8	31.7	29.2	28.2	26.4	26.0	25.6	<u>25.0</u>	26.4	+1.4	-19.9 sss	-42.9	+1.4	+5.6	
Flavored alcoholic beverages	53.1	51.3	49.3	47.9	46.7	44.5	42.7	41.1	38.8	37.4	33.8	33.5	34.3	30.6	32.8	+2.2	-21.9 sss	-40.0	+2.2	+7.2	
Cigarettes	35.0	33.3	31.3	31.2	30.9	28.7	27.0	25.6	22.9	21.1	18.2	17.0	16.1	<u>15.3</u>	16.2	+0.9	-41.6 sss	-72.0	+0.9	+5.9	
Smokeless tobacco	13.3	12.9	12.3	13.5	14.5	13.8	13.5	12.8	12.1	11.3	10.3	8.7	8.8	<u>8.7</u>	12.0	+3.3 sss	-14.3 sss	-54.5	+3.3 sss	+38.0	
Any Vaping ^d	_	_	_	_	_	_	_	_	_	29.9	26.6‡		33.4	36.7	37.2	+0.4	_	_	+9.0 sss	+31.8	
Vaping nicotine	_	_	_	_	_	_	_	_	_	_	_	<u>18.9</u>	25.2	32.3	35.0	+2.7 ss	_	_	+16.1 sss	+85.6	
Vaping marijuana		_	_	_	_	_	_	_	_	_	_	8.5	11.7	18.1	20.1	+2.0 s	_		+11.6 sss	+136.6	
Vaping just flavoring	_	_	_	_	_	_	_	_	_	_	_	<u>24.9</u>	28.3	25.3	25.0	-0.4	-3.3 ss	-11.7	+0.0	+0.2	
JUUL	_	_	_								_	_	_	28.1	27.7	-0.4	-0.4	-1.4	_	_	
Steroids	2.0	1.8	1.6	1.5	1.5	1.5	1.4	1.5	1.4	1.5	1.3	<u>1.2</u>	1.3	1.6	1.9	+0.4	-1.4 sss	-41.5	+0.7 ss	+53.0	

(Table continued on next page.)

TABLE 1 (continued)

Trends in Lifetime Prevalence of Use of Various Drugs for Grades 8, 10, and 12 Combined

Source. The Monitoring the Future study, the University of Michigan.

ofes. '-' indicates data not available. '‡' indicates a change in the question text. When a question change occurs, peak levels after that change are used to calculate the peak year to current year difference.

Values in bold equal peak levels since 1991. Values in italics equal peak level before wording change. Underlined values equal lowest level since recent peak level.

Level of significance of difference between classes: s = .05, ss = .01, sss = .001.

Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

^aThe proportional change is the percent by which the most recent year deviates from the peak year [or the low year] for the drug in question. So, if a drug was at 20% prevalence in the peak year and declined to 10% prevalence in the most recent year, that would reflect a proportional decline of 50%.

bln 2013, for the questions on the use of amphetamines, the text was changed on two of the questionnaire forms for 8th and 10th graders and four of the questionnaire forms for 12th graders. This change also impacted the any illicit drug indices. Data presented here include only the changed forms beginning in 2013.

cln 2014, the text was changed on one of the questionnaire forms for 8th, 10th, and 12th graders to include "molly" in the description. The remaining forms were changed in 2015. Data for both versions of the question are presented here.

d ln 2017, the surveys switched from asking about vaping in general to asking separately about vaping nicotine, marijuana, and just flavoring. Beginning in 2017, data presented for any vaping are based on these new questions.

^eIn 2019 a randomly-selected half of the respondents answered survey questions using electronic tablets and the other half used paper and pencil. Drug prevalence estimates were the same across survey mode (documented<u>here)</u>, while questions on the other topics were subject to survey mode effects in some cases. All 2019 drug prevalence estimates combine responses from electronic tablets and paper. For estimates other than drug prevalence we use the mode that allows us direct comparison of the latest year and the penultimate year of estimates without mode effects. Specifically, we report tablet-based 2019 estimates for outcomes with 2020 estimates (when all respondents used tablets) and we report paper-based 2019 respondents when 2019 estimates are the most recent reported (for direct comparison with 2018 estimates, when all respondents used paper).

TABLE 2
Trends in **Annual** Prevalence of Use of Various Drugs for Grades 8, 10, and 12 Combined

(Entries are percentages.)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Any Illicit Drug ^c	20.2	19.7	23.2	27.6	31.0	33.6	34.1	32.2	31.9	31.4	31.8	30.2	28.4	27.6	27.1
Any Illicit Drug other than Marijuana ^c	12.0	12.0	13.6	14.6	16.4	17.0	16.8	15.8	15.6	15.3±	16.3	14.6	13.7	13.5	13.1
Any Illicit Drug including Inhalants ^c	23.5	23.2	26.7	31.1	34.1	36.6	36.7	35.0	34.6	34.1	34.3	32.3	30.8	30.1	30.1
Marijuana/Hashish	15.0	14.3	17.7	22.5	26.1	29.0	30.1	28.2	27.9	27.2	27.5	26.1	24.6	23.8	23.4
Synthetic marijuana	_	_	_		_	_	_	_	_	_	_	_	_	_	_
Inhalants	7.6	7.8	8.9	9.6	10.2	9.9	9.1	8.5	7.9	7.7	6.9	6.1	6.2	6.7	7.0
Hallucinogens	3.8	4.1	4.8	5.2	6.6	7.2	6.9	6.3	6.1	5.4±	6.0	4.5	4.1	4.0	3.9
LSD	3.4	3.8	4.3	4.7	5.9	6.3	6.0	5.3	5.3	4.5	4.1	2.4	1.6	1.6	1.5
Hallucinogens other than LSD	1.3	1.4	1.7	2.2	2.7	3.2	3.2	3.1	2.9	2.8‡	4.0	3.7	3.6	3.6	3.4
Ecstasy (MDMA) ^d	_	_	_	_	_	3.1	3.4	2.9	3.7	5.3	6.0	4.9	3.1	2.6	2.4
Salvia	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Cocaine	2.2	2.1	2.3	2.8	3.3	4.0	4.3	4.5	4.5	3.9	3.5	3.7	3.3	3.5	3.5
Crack	1.0	1.1	1.2	1.5	1.8	2.0	2.1	2.4	2.2	2.1	1.8	2.0	1.8	1.7	1.6
Other cocaine	2.0	1.8	2.0	2.3	2.8	3.4	3.7	3.7	4.0	3.3	3.0	3.1	2.8	3.1	3.0
Heroin	0.5	0.6	0.6	0.9	1.2	1.3	1.3	1.2	1.3	1.3	0.9	1.0	0.8	0.9	0.8
With a needle	_	_	_	_	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5
Without a needle	_	_	_	_	0.9	0.9	1.0	0.9	1.0	1.1	0.7	0.7	0.6	0.7	0.7
OxyContin	_	_	_	_	_	_	_	_	_	_	_	2.7	3.2	3.3	3.4
Vicodin	_	_	_	_	_	_	_	_	_	_	_	6.0	6.6	5.8	5.7
Amphetamines ^c	7.5	7.3	8.4	9.1	10.0	10.4	10.1	9.3	9.0	9.2	9.6	8.9	8.0	7.6	7.0
Ritalin	_	_	_	_	_	_	_	_	_	_	4.2	3.8	3.5	3.6	3.3
Adderall	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Methamphetamine	_	_	_	_	_	_	_	_	4.1	3.5	3.4	3.2	3.0	2.6	2.4
Bath salts (synthetic stimulants)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Tranquilizers	2.8	2.8	2.9	3.1	3.7	4.1	4.1	4.4	4.4	4.5‡	5.5	5.3	4.8	4.8	4.7
OTC Cough/Cold Medicines	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Rohypnol	_	_	_	_	_	1.1	1.1	1.1	0.8	0.7	0.9‡	8.0	0.8	0.9	0.8
GHB ^b	_	_	_	_	_	_	_	_	_	1.4	1.2	1.2	1.2	1.1	0.8
Ketamine ^b	_	_	_	_	_	_	_	_	_	2.0	1.9	2.0	1.7	1.3	1.0
Alcohol	67.4	66.3‡	59.7	60.5	60.4	60.9	61.4	59.7	59.0	59.3	58.2	55.3	54.4	54.0	51.9
Been drunk	35.8	34.3	34.3	35.0	35.9	36.7	36.9	35.5	36.0	35.9	35.0	32.1	31.2	32.5	30.8
Flavored alcoholic beverages	_	_	_	_	_	_	_	_	_	_	_	_	_	44.5	43.9
Alcoholic beverages containing caffeine	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Any Vaping	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vaping nicotine	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vaping marijuana	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vaping just flavoring	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Dissolvable tobacco products	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Snus	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Steroids	1.2	1.1	1.0	1.2	1.3	1.1	1.2	1.3	1.7	1.9	2.0	2.0	1.7	1.6	1.3

Table continued on next page.

TABLE 2 (continued)

Trends in **Annual** Prevalence of Use of Various Drugs for Grades 8, 10, and 12 Combined

(Entries are percentages.)

																	Peak year-	-2020 change	Low year-2	2020 change
																2019–2020	Absolute	Proportional	Absolute	Proportional
	<u>2006</u>	2007	<u>2008</u>	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	2017	<u>2018</u>	2019 ^e	2020	<u>change</u>	<u>change</u>	change (%) a	<u>change</u>	<u>change</u>
Any Illicit Drug ^c	25.8	24.8	24.9	25.9	27.3	27.6	27.1	28.6‡	27.2	26.8	25.3	26.5	27.1	27.7	27.3	-0.3	-0.3	-1.2	+2.0	+7.9
Any Illicit Drug other than Marijuana ^c	12.7	12.4	11.9	11.6	11.8	11.3	10.8	11.4‡	10.9	10.5	9.7	9.4	9.3	9.0	9.2	+0.2	-1.8 s	-16.1	+0.2	+2.4
Any Illicit Drug including Inhalants ^c	28.7	27.6	27.6	28.5	29.7	29.8	29.0	30.5‡	28.5	28.4	26.3	28.3	28.8	29.0	29.2	+0.2	_	_	+2.9 s	+11.2
Marijuana/Hashish	22.0	21.4	21.5	22.9	24.5	25.0	24.7	25.8	24.2	23.7	22.6	23.9	24.3	25.2	24.6	-0.6	-5.5 sss	-18.2	+3.2 ss	+15.1
Synthetic marijuana	_	_	_	_	_	_	8.0	6.4	4.8	4.2	3.1	2.8	2.6	2.9	2.2	-0.7 ss	-6.8 sss	-84.4	_	_
Inhalants	6.9	6.4	6.4	6.1	6.0	5.0	4.5	3.8	3.6	3.2	2.6	2.9	2.9	2.9	3.4	+0.6	-2.6 sss	-25.4	+0.8 s	+29.9
Hallucinogens	3.6	3.8	3.8	3.5	3.8	3.7	3.2	3.1	2.8	2.8	2.8	2.7	2.7	2.9	3.4	+0.5	-2.6 sss	-43.2	+0.7	+24.6
LSD	1.4	1.7	1.9	1.6	1.8	1.8	1.6	1.6	1.7	1.9	2.0	2.1	2.0	2.2	2.5	+0.3	-3.8 sss	-60.9	+1.1 sss	+76.1
Hallucinogens other than LSD	3.3	3.3	3.2	3.0	3.3	3.1	2.7	2.5	2.1	1.9	1.8	1.8	1.7	1.9	2.0	+0.1	-2.0 sss	-50.3	+0.3	+15.4
Ecstasy (MDMA) ^d	2.7	3.0	2.9	3.0	3.8	3.7	2.5	2.8‡	3.4	2.4	1.8	1.7	1.5	1.6	1.3	-0.4	-2.1 sss	-61.6	_	_
Salvia	_	_	_	_	3.5	3.6	2.7	2.3	1.4	1.2	1.2	0.9	0.8	0.8	0.8	0.0	-2.8 sss	-77.1	+0.1	+9.4
Cocaine	3.5	3.4	2.9	2.5	2.2	2.0	1.9	1.8	1.6	1.7	1.4	1.6	1.5	1.4	1.4	0.0	-3.0 sss	-68.2	0.0	+0.4
Crack	1.5	1.5	1.3	1.2	1.1	1.0	0.9	0.8	0.7	8.0	0.6	0.7	0.6	0.7	0.6	0.0	-1.8 sss	-74.0	0.0	+6.5
Other cocaine	3.1	2.9	2.6	2.1	1.9	1.7	1.7	1.5	1.5	1.5	1.2	1.3	1.3	1.3	1.4	+0.2	-2.6 sss	-64.1	+0.2	+16.0
Heroin	0.8	0.8	0.8	8.0	0.8	0.7	0.6	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.2	-0.1	-1.1 sss	-82.2	_	_
With a needle	0.5	0.5	0.5	0.5	0.6	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	-0.1	-0.5 sss	-70.8	_	_
Without a needle	0.6	0.7	0.6	0.5	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.1	-0.1	-1.0 sss	-88.8	_	_
OxyContin	3.5	3.5	3.4	3.9	3.8	3.4	2.9	2.9	2.4	2.3	2.1	1.9	1.7	1.7	1.4	-0.3	-2.5 sss	-64.6	_	_
Vicodin	6.3	6.2	6.1	6.5	5.9	5.1	4.3	3.7	3.0	2.5	1.8	1.3	1.1	1.0	0.9	-0.2	-5.7 sss	-86.9	_	_
Amphetamines ^c	6.8	6.5	5.8	5.9	6.2	5.9	5.6	7.0‡	6.6	6.2	5.4	5.0	5.0	4.6	4.6	0.0	-2.0 sss	-30.1	0.0	+0.1
Ritalin	3.5	2.8	2.6	2.5	2.2	2.1	1.7	1.7	1.5	1.4	1.1	8.0	0.8	0.9	1.0	+0.1	-3.1 sss	-74.9	+0.3	+33.3
Adderall	_	_	_	4.3	4.5	4.1	4.4	4.4	4.1	4.5	3.9	3.5	3.5	3.1	3.3	+0.2	-1.2 ss	-26.8	+0.2	+4.9
Methamphetamine	2.0	1.4	1.3	1.3	1.3	1.2	1.0	1.0	8.0	0.6	0.5	0.5	0.5	0.5	0.7	+0.2	-3.4 sss	-83.3	+0.2	+48.7
Bath salts (synthetic stimulants)	_	_	_	_	_	_	0.9	0.9	8.0	0.7	0.8	0.5	0.7	_	_	_	_	_	_	_
Tranquilizers	4.6	4.5	4.3	4.5	4.4	3.9	3.7	3.3	3.4	3.4	3.5	3.6	3.2	3.1	2.7	-0.4	-2.8 sss	-51.7	_	_
OTC Cough/Cold Medicines	5.4	5.0	4.7	5.2	4.8	4.4	4.4	4.0	3.2	3.1	3.2	3.0	3.2	2.8	3.7	+0.9 ss	-1.6 sss	-30.4	+0.9 ss	+33.7
Rohypnol	0.7	0.8	0.7	0.6	0.8	0.9	0.7	0.6	0.5	0.5	0.7	0.5	0.4	0.5	1.0	+0.5 ss	_	_	+0.5 ss	+118.7
GHB ^b	0.9	0.7	0.9	0.9	0.8	0.8	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Ketamine ^b	1.1	1.0	1.2	1.3	1.2	1.2	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Alcohol	50.7	50.2	48.7	48.4	47.4	45.3	44.3	42.8	40.7	39.9	36.7	36.7	36.1	35.9	38.3	+2.4 s	-23.0 sss	-37.5	+2.4 s	+6.8
Been drunk	30.7	29.7	28.1	28.7	27.1	25.9	26.4	25.4	23.6	22.5	20.7	20.4	20.0	19.5	22.1	+2.6 ss	-14.8 sss	-40.1	+2.6 ss	+13.3
Flavored alcoholic beverages	42.4	40.8	39.0	37.8	35.9	33.7	32.5	31.3	29.4	28.8	25.3	25.9	26.1	24.6	26.5	+1.9	-18.0 sss	-40.4	+1.9	+7.8
Alcoholic beverages containing caffeine	_	_	_	_	_	19.7	18.6	16.6	14.3	13.0	11.2	10.6	10.1	9.2	8.6	-0.6	-11.0 sss	-56.1	_	_
Any Vaping	_	_	_	_	_	_	_	_	_	_	_	21.5	28.9	31.9	30.7	-1.2	-1.2	-3.9	+9.2 sss	+42.7
Vaping nicotine	_	_	_	_	_	_	_	_	_	_	_	13.9	21.6	27.3	27.1	-0.2	-0.2	-0.8	+13.2 sss	+94.4
Vaping marijuana	_	_	_	_	_	_	_	_	_	_	_	6.8	9.9	15.6	16.3	+0.7	_	_	+9.5 sss	+138.6
Vaping just flavoring	_	_	_	_	_	_	_	_	_	_	_	17.2	21.8	18.6	15.8	-2.8 s	-6.0 sss	-27.4	_	_
JUUL					_	_	_	_	_	_	_	_	_	23.9	18.0	-5.9 sss	-5.9 sss	-24.6	_	_
Dissolvable tobacco products	_	_	_	_	_	_	1.4	1.4	1.2	1.1	0.9	0.9	1.0	1.0	0.9	-0.1	-0.5	-35.1	_	_
Snus	_	_			_	_	5.6	4.8	4.1	3.8	3.6	2.6	3.0	2.2	2.7	+0.5	-2.9 sss	-52.1	+0.5	+25.0
Steroids																		-		

(Table continued on next page.)

TABLE 2 (continued)

Trends in Annual Prevalence of Use of Various Drugs for Grades 8, 10, and 12 Combined

Source. The Monitoring the Future study, the University of Michigan.

Notes. '-' indicates data not available. '‡' indicates a change in the question text. When a question change occurs, peak levels after that change are used to calculate the peak year to current year difference.

Values in bold equal peak levels since 1991. Values in italics equal peak level before wording change. Underlined values equal lowest level since recent peak level.

Level of significance of difference between classes: s = .05, ss = .01, sss = .001.

Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

^aThe proportional change is the percent by which the most recent year deviates from the peak year [or the low year] for the drug in question. So, if a drug was at 20% prevalence in the peak year and declined to 10% prevalence in the most recent year, that would reflect a proportional decline of 50%.

^bQuestion was discontinued among 8th and 10th graders in 2012.

°In 2013, for the questions on the use of amphetamines, the text was changed on two of the questionnaire forms for 8th and 10th graders and four of the questionnaire forms for 12th graders. This change also impacted the any illicit drug indices. Data presented here include only the changed forms beginning in 2013.

^dIn 2014, the text was changed on one of the questionnaire forms for 8th, 10th, and 12th graders to include "molly" in the description. The remaining forms were changed in 2015. Data for both versions of the question are presented here.

^eIn 2019 a randomly-selected half of the respondents answered survey questions using electronic tablets and the other half used paper and pencil. Drug prevalence estimates were the same across survey mode (documented here), while questions on the other topics were subject to survey mode effects in some cases. All 2019 drug prevalence estimates combine responses from electronic tablets and paper. For estimates other than drug prevalence we use the mode that allows us direct comparison of the latest year and the penultimate year of estimates without mode effects. Specifically, we report tablet-based 2019 estimates for outcomes with 2020 estimates (when all respondents used tablets) and we report paper-based 2019 respondents when 2019 estimates are the most recent reported (for direct comparison with 2018 estimates, when all respondents used paper).

TABLE 3
Trends in 30-Day Prevalence of Use of Various Drugs for Grades 8, 10, and 12 Combined

(Entries are percentages.)

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	2003	2004	2005
Any Illicit Drug ^b	10.9	10.5	13.3	16.8	18.6	20.6	20.5	19.5	19.5	19.2	19.4	18.2	17.3	16.2	15.8
Any Illicit Drug other than Marijuanab	5.4	5.5	6.5	7.1	8.4	8.4	8.4	8.2	7.9	8.0‡	8.2	7.7	7.1	7.0	6.7
Any Illicit Drug including Inhalants ^b	13.0	12.5	15.4	18.9	20.7	22.4	22.2	21.1	21.1	21.0	20.8	19.5	18.6	17.5	17.5
Marijuana/Hashish	8.3	7.7	10.2	13.9	15.6	17.7	17.9	16.9	16.9	16.3	16.6	15.3	14.8	13.6	13.4
Inhalants	3.2	3.3	3.8	4.0	4.3	3.9	3.7	3.4	3.3	3.2	2.8	2.7	2.7	2.9	2.9
Hallucinogens	1.5	1.6	1.9	2.2	3.1	2.7	3.0	2.8	2.5	2.0‡	2.3	1.7	1.5	1.5	1.5
LSD	1.3	1.5	1.6	1.9	2.8	2.1	2.4	2.3	2.0	1.4	1.5	0.7	0.6	0.6	0.6
Hallucinogens other than LSD	0.5	0.5	0.7	1.0	1.0	1.2	1.2	1.2	1.1	1.1‡	1.4	1.4	1.2	1.3	1.2
Ecstasy (MDMA) ^c	_	_	_	_	_	1.5	1.3	1.2	1.6	2.4	2.4	1.8	1.0	0.9	0.9
Cocaine	0.8	0.9	0.9	1.2	1.5	1.7	1.8	1.9	1.9	1.7	1.5	1.6	1.4	1.6	1.6
Crack	0.4	0.5	0.5	0.7	8.0	0.9	8.0	1.0	0.9	0.9	0.9	1.0	8.0	8.0	0.8
Other cocaine	0.7	0.7	8.0	1.1	1.2	1.3	1.5	1.6	1.7	1.4	1.3	1.3	1.2	1.4	1.3
Heroin	0.2	0.3	0.3	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.5	0.4	0.5	0.5
With a needle	_	_	_	_	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Without a needle	_	_	_	_	0.4	0.4	0.5	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.3
Amphetamines ^b	3.0	3.3	3.9	4.0	4.5	4.8	4.5	4.3	4.2	4.5	4.7	4.4	3.9	3.6	3.3
Methamphetamine	_	_	_	_	_	_	_	_	1.5	1.5	1.4	1.5	1.4	1.1	0.9
Tranquilizers	1.1	1.1	1.1	1.3	1.6	1.7	1.7	1.9	1.9	2.1‡	2.3	2.4	2.2	2.1	2.1
Alcohol	39.8	38.4‡	36.3	37.6	37.8	38.8	38.6	37.4	37.2	36.6	35.5	33.3	33.2	32.9	31.4
Been drunk	19.2	17.8	18.2	19.3	20.3	20.4	21.2	20.4	20.6	20.3	19.7	17.4	17.7	18.1	17.0
Flavored alcoholic beverages	_	_	_	_	_	_	_	_	_	_	_	_	_	23.0	21.6
Cigarettes	20.7	21.2	23.4	24.7	26.6	28.3	28.3	27.0	25.2	22.6	20.2	17.7	16.6	16.1	15.3
Smokeless tobacco	_	9.2	9.1	9.7	9.6	8.5	8.0	7.0	6.3	5.8	6.1	5.2	5.3	5.1	5.3
Any Vaping ^d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vaping nicotine	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vaping marijuana	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vaping just flavoring	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
JUUL	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Large Cigars	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Flavored Little Cigars	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Regular Little Cigars	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Tobacco using a hookah	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Steroids	0.6	0.6	0.6	0.7	0.6	0.5	0.7	0.7	0.9	0.9	0.9	1.0	0.9	0.9	0.7

TABLE 3 (continued) Trends in 30-Day Prevalence of Use of Various Drugs for Grades 8, 10, and 12 Combined

(Entries are percentages.)

																	Peak vear-	-2020 change	Low year-	2020 change
																2019–2020	Absolute	Proportional	Absolute	Proportional
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 ^e	2020	change	change	change (%) a	change	change
Any Illicit Drug ^b	14.9	14.8	14.6	15.8	16.7	17.0		17.3‡		15.9	15.5	16.1	16.3	17.2	16.2	-1.0	-0.3	-1.7	+0.7	+4.6
Any Illicit Drug other than Marijuana ^b	6.4	6.4	5.9	5.7	5.7	5.7	5.2	5.4‡	5.4	5.1	4.6	4.4	4.4	4.3	4.0	-0.3	-1.5 sss	-26.7	_	-
Any Illicit Drug including Inhalants ^b	16.5	16.5	16.1	17.3	18.0	18.3		18.4‡		16.8	16.0	17.2	17.1	17.9	17.4	-0.5	-0.5	-2.9	+1.4	+8.4
Marijuana/Hashish	12.5	12.4	12.5	13.8	14.8	15.2	15.1	15.6	14.4	14.0		14.5	14.6	15.6	14.6	-1.0	-3.4 sss	-18.7	+2.2 ss	+17.7
Inhalants	2.7	2.6	2.6	2.5	2.4	2.1	17	1.5	1.4	1.3	1.2	1.3	1.1	1.4	1.6	+0.2	-2.7 sss	-62.5	+0.5 s	+43.2
Hallucinogens	1.3	1.4	1.4	1.3	1.4	1.3	1.1	1.1	1.0	1.0	1.0	1.0	0.9	1.2	1.3	+0.1	-0.9 sss	-40.5	+0.4 s	+45.2
LSD	0.6	0.6	0.7	0.5	0.7	0.7	0.5	0.6	0.6	0.7	0.7	0.8	0.6	0.9	1.0	+0.1	-1.8 sss	-64.0	+0.4 ss	+89.1
Hallucinogens other than LSD	1.1	1.1	1.1	1.0	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.6	0.6	0.7	0.8	+0.1	-0.7 sss	-46.8	+0.2 s	+42.6
Ecstasy (MDMA) ^c	1.0	1.1	1.2	1.2	1.5	1.4	0.8	1.0‡	1.1	0.8	0.6	0.6	0.5	0.6	0.5	-0.1	-0.6 s	-51.5	+0.1	+14.9
Cocaine	1.6	1.4	1.3	1.0	0.9	0.8	0.8	0.8	0.7	0.8	0.5	0.7	0.7	0.6	0.4	-0.2	-1.4 sss	-74.1	_	_
Crack	0.7	0.7	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.3	0.4	0.3	-0.1 s	-0.7 sss	-70.9	_	_
Other cocaine	1.4	1.1	1.1	0.8	0.8	0.7	0.7	0.6	0.6	0.7	0.4	0.6	0.6	0.5	0.5	-0.1	-1.2 sss	-71.4	+0.1	+18.5
Heroin	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.0	-0.3 sss	-55.0	+0.1	+73.1
With a needle	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.3	0.1	0.2	0.1	0.1	0.2	0.2	0.0	-0.2 ss	-51.6	+0.1	+48.2
Without a needle	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	-0.3 sss	-72.6	0.0	+61.0
Amphetamines ^b	3.0	3.2	2.6	2.7	2.7	2.8	2.5	3.2±		2.7	2.5	2.2	2.2	2.2	2.0	-0.2	-1.2 sss	-38.2	_	_
Methamphetamine	0.7	0.5	0.7	0.5	0.6	0.5	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.4	+0.2	-1.1 sss	-74.3	+0.2	+110.3
Tranquilizers	2.1	2.0	1.9	1.9	1.9	1.7	1.5	1.5	1.5	1.5	1.4	1.4	1.2	1.2	0.9	-0.3 s	-1.4 sss	-60.2	_	_
Alcohol	31.0	30.1	28.1	28.4	26.8	25.5	25.9	24.3	22.6	21.8	19.8	19.9	18.7	18.2	20.9	+2.6 sss	-17.9 sss	-46.2	+2.6 sss	+14.5
Been drunk	17.4	16.5	14.9	15.2	14.6	13.5	14.7	13.5	11.9	11.0	10.1	9.8	9.1	9.4	10.5	+1.1	-10.7 sss	-50.4	+1.4	+15.6
Flavored alcoholic beverages	21.7	20.4	18.6	17.9	17.0	15.2	14.9	14.0	12.9	12.8	10.9	12.3	11.4	11.2	11.9	+0.7	-11.2 sss	-48.5	+1.0	+9.0
Cigarettes	14.4	13.6	12.6	12.7	12.8	11.7	10.6	9.6	8.0	7.0	5.9	5.4	4.6	3.7	4.2	+0.4	-24.1 sss	-85.2	+0.4	+11.8
Smokeless tobacco	5.1	5.2	4.9	6.0	6.5	5.9	5.6	5.7	5.4	4.7	4.1	3.5	3.4	3.1	4.9	+1.9 ss	-4.7 sss	-49.1	+1.9 ss	+60.2
Any Vaping ^d	_	_	_	_	_	_	_	_	_	12.8	9.9‡	12.0	19.2	22.5	21.2	-1.2 s	-1.2 s	-5.5	+9.3 sss	+77.5
Vaping nicotine	_	_	_	_	_	_	_	_	_	_	_	7.5	14.2	18.1	18.0	-0.2	-0.2	-0.9	+10.5 sss	+140.2
Vaping marijuana	_	_	_	_	_	_	_	_	_	_	_	3.6	5.7	10.1	9.2	-0.9 s	-0.9 s	-8.9	+5.6 sss	+154.8
Vaping just flavoring	_	_	_		_	_	_	_	_	_	_	8.0	11.5	9.6	8.5	-1.1 ss	-3.0 sss	-25.9	+0.5	+6.6
JUUL	_	_	_	_	_	_	_	_	_	_	_	_	_	15.8	<u>10.4</u>	-5.4 sss	-5.4 sss	-34.1	_	_
Large Cigars	_	_	_	_	_	_	_	_	3.9	4.2	3.3	3.2	3.2	2.8	<u>1.8</u>	-1.0 sss	-2.4 sss	-56.6	_	_
Flavored Little Cigars	_	_	_	_	_	_	_	_	7.4	7.1	5.6	5.4	5.5	4.5	<u>3.1</u>	-1.4 sss	-4.4 sss	-58.8	_	_
Regular Little Cigars	_	_	_	_	_	_	_	_	4.5	4.9	3.6	3.6	3.4	3.0	<u>2.4</u>	-0.6 ss	-2.5 sss	-51.1	_	_
Tobacco using a hookah	_	_	_	_	_	_	_	_	_	_	4.3	3.4	2.7	2.5	<u>1.1</u>	-1.4 ss	-3.2 sss	-74.5	_	_
Steroids	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.5	0.5	0.6	+0.1	-0.4 ss	-39.2	+0.2 s	+47.5

TABLE 3 (continued)

Trends in 30-Day Prevalence of Use of Various Drugs for Grades 8, 10, and 12 Combined

(Entries are percentages.)

Source. The Monitoring the Future study, the University of Michigan.

Notes. '-' indicates data not available. '‡' indicates a change in the question text. When a question change occurs, peak levels after that change are used to calculate the peak year to current year difference.

Values in bold equal peak levels since 1991. Values in italics equal peak level before wording change. Underlined values equal lowest level since recent peak level.

Level of significance of difference between classes: s = .05, ss = .01, sss = .001.

Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

^aThe proportional change is the percent by which the most recent year deviates from the peak year [or the low year] for the drug in question. So, if a drug was at 20% prevalence in the peak year and declined to 10% prevalence in the most recent year, that would reflect a proportional decline of 50%.

^bIn 2013, for the questions on the use of amphetamines, the text was changed on two of the questionnaire forms for 8th and 10th graders and four of the questionnaire forms for 12th graders. This change also impacted the any illicit drug indices. Data presented here include only the changed forms beginning in 2013.

cin 2014, the text was changed on one of the questionnaire forms for 8th, 10th, and 12th graders to include "molly" in the description. The remaining forms were changed in 2015. Data for both versions of the question are presented here.

^dIn 2017, the surveys switched from asking about vaping in general to asking separately about vaping nicotine, marijuana, and just flavoring. Beginning in 2017, data presented for any vaping are based on these new questions.

end 2019 a randomly-selected half of the respondents answered survey questions using electronic tablets and the other half used paper and pencil. Drug prevalence estimates were the same across survey mode (documented here), while questions on the other topics were subject to survey mode effects in some cases. All 2019 drug prevalence estimates combine responses from electronic tablets and paper. For estimates other than drug prevalence we use the mode that allows us direct comparison of the latest year and the penultimate year of estimates without mode effects. Specifically, we report tablet-based 2019 estimates for outcomes with 2020 estimates (when all respondents used tablets) and we report paper-based 2019 respondents when 2019 estimates are the most recent reported (for direct comparison with 2018 estimates, when all respondents used paper).

TABLE 4
Trends in <u>Daily</u> Prevalence of Use of Selected Drugs and <u>Heavy Use</u> of Alcohol and Tobacco for Grades 8, 10, and 12 Combined

(Entries are percentages.)

	<u> 1991</u>	1992	<u>1993</u>	<u>1994</u>	<u> 1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	<u>2005</u>
Marijuana	0.9	0.9	1.2	2.1	2.7	3.2	3.4	3.4	3.5	3.5	3.7	3.5	3.4	3.0	2.9
Alcohol	1.7	1.6‡	2.0	1.8	1.9	2.0	2.1	2.2	2.0	1.7	2.0	1.9	1.7	1.5	1.5
5+ drinks in a row in last 2 weeks	20.0	19.0	19.5	20.3	21.1	21.9	21.9	21.5	21.7	21.2	20.4	18.9	18.6	18.8	17.5
Been drunk	0.4	0.4	0.5	0.6	0.7	0.7	0.9	8.0	0.9	8.0	0.7	0.6	0.7	0.7	0.6
Cigarettes	12.4	11.9	13.5	14.0	15.5	16.8	16.9	15.4	15.0	13.4	11.6	10.2	9.3	9.0	8.0
1/2 pack+/day	6.5	6.1	6.9	7.2	7.9	8.7	8.6	7.9	7.6	6.4	5.7	4.9	4.5	4.1	3.7
Vaping nicotine	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vaping marijuana	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vaping just flavoring	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Smokeless tobacco	_	3.0	2.7	2.9	2.5	2.3	2.5	2.1	1.7	1.9	2.0	1.4	1.6	1.7	1.6

TABLE 4 (continued) Trends in Daily Prevalence of Use of Selected Drugs and Heavy Use of Alcohol and Tobacco

for Grades 8, 10, and 12 Combined

(Entries are percentages.)

																	Peak year-	-2020 change	Low year	<u>–2020 change</u>
																2019–2020	Absolute	Proportional	Absolute	Proportional
	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	2017	<u>2018</u>	2019 b	2020	<u>change</u>	<u>change</u>	change (%) a	<u>change</u>	<u>change</u>
Marijuana	2.8	2.7	2.8	2.8	3.4	3.6	3.6	3.7	3.3	3.3	3.0	3.1	3.2	4.1	4.1	-0.1	-0.1	-1.3	+1.3 sss	+48.9
Alcohol	1.5	1.6	1.4	1.3	1.4	1.0	1.2	1.1	1.0	8.0	0.7	0.7	0.6	8.0	1.3	+0.5 sss	-0.9 sss	-39.7	+0.7 sss	+126.8
5+ drinks in a row in last 2 weeks	17.4	17.2	15.5	16.1	14.9	13.6	14.3	13.2	11.7	10.7	9.4	9.9	8.6	8.7	10.1	+1.4 s	-11.8 sss	-54.0	+1.5 s	+18.0
Been drunk	0.7	0.6	0.6	0.5	0.6	0.5	0.6	0.5	0.5	0.3	0.3	0.4	0.3	0.4	0.4	0.0	-0.5 sss	-52.4	+0.1	+42.9
Cigarettes	7.6	7.1	6.4	6.4	6.4	5.7	5.2	4.7	3.6	3.2	2.5	2.3	2.0	<u>1.5</u>	1.6	+0.2	-15.3 sss	-90.4	+0.2	+11.1
1/2 pack+/day	3.4	3.0	2.7	2.6	2.5	2.1	1.9	1.8	1.4	1.1	0.9	8.0	8.0	0.5	0.6	+0.1	-8.1 sss	-92.7	+0.1	+17.7
Vaping nicotine	_	_	_	_	_	_	_	_	_	_	_	_	_	9.2	<u>5.9</u>	-3.3 sss	-6.7 sss	-72.3	_	_
Vaping marijuana	_	_	_	_	_	_	_	_	_	_	_	_	_	2.4	1.6	-0.8 ss	-1.4 ss	-57.5	_	_
Vaping just flavoring	_	_	_	_	_	_	_	_	_	_	_	_	_	2.0	<u>1.4</u>	-0.6 sss	-1.3 sss	-65.4	_	_
Smokeless tobacco	1.5	1.6	1.6	1.8	2.1	1.8	1.9	1.7	1.8	1.7	1.4	1.0	1.0	<u>0.8</u>	1.6	+0.7 s	-1.4 s	-47.3	+0.7 s	+86.4

Source. The Monitoring the Future study, the University of Michigan.

Notes.

'-' indicates data not available. '‡' indicates a change in the question text. When a question change occurs, peak levels after that change are used to calculate the peak year to current year difference.

Values in bold equal peak levels since 1991. Values in italics equal peak level before wording change. Underlined values equal lowest level since recent peak level.

Level of significance of difference between classes: s = .05, ss = .01, sss = .001.

Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

^aThe proportional change is the percent by which the most recent year deviates from the peak year [or the low year] for the drug in question. So, if a drug was at 20% prevalence in the peak year and declined to 10% prevalence in the most recent year, that would reflect a proportional decline of 50%.

end 2019 a randomly-selected half of the respondents answered survey questions using electronic tablets and the other half used paper and pencil. Drug prevalence estimates were the same across survey mode (documented here), while questions on the other topics were subject to survey mode effects in some cases. All 2019 drug prevalence estimates combine responses from electronic tablets and paper. For estimates other than drug prevalence we use the mode that allows us direct comparison of the latest year and the penultimate year of estimates without mode effects. Specifically, we report tablet-based 2019 estimates for outcomes with 2020 estimates (when all respondents used tablets) and we report paper-based 2019 respondents when 2019 estimates are the most recent reported (for direct comparison with 2018 estimates, when all respondents used paper).

(Entries are percentages.)

Any Illicit Drug ^a	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	1998	<u>1999</u>	2000	<u>2001</u>	2002	2003	<u>2004</u>	2005	2006	<u>2007</u>	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2019 ^{kk}	2020	2019– 2020 <u>change</u>
8th Grade	18.7	20.6	22.5	25.7	28.5	31.2	29.4	29.0	28.3	26.8	26.8	24.5	22.8	21.5	21.4	20.9	19.0	19.6	19.9	21.4	20.1	18.5‡	21.1	20.3	20.5	17.2	18.2	18.7	20.4	21.3	+0.8
10th Grade	30.6	29.8	32.8	37.4	40.9	45.4	47.3	44.9	46.2	45.6		44.6			38.2	36.1	35.6	34.1				36.8‡		37.4	34.7	33.7	34.3	36.3	37.5	37.3	-0.3
12th Grade	44.1	40.7	42.9	45.6	48.4	50.8	54.3	54.1	54.7	54.0	53.9	53.0	51.1	51.1	50.4	48.2	46.8	47.4	46.7	48.2	49.9	49.1‡	49.8	49.1	48.9	48.3	48.9	47.8	47.4	46.6	-0.8
Any Illicit Drug other than Marijuana ^{a,b}																															
8th Grade	14.3	15.6	16.8	17.5	18.8	19.2	17.7	16.9	16.3	15.8‡	17.0	13.7	13.6	12.2	12.1	12.2	11.1	11.2	10.4	10.6	9.8	8.7‡	10.4	10.0	10.3	8.9	9.3	9.8	10.8	12.5	+1.7
10th Grade	19.1	19.2	20.9	21.7	24.3	25.5	25.0	23.6	24.0	23.1‡	23.6	22.1	19.7	18.8	18.0	17.5	18.2	15.9	16.7	16.8	15.6	14.9‡	16.4	15.9	14.6	14.0	13.7	14.2	13.8	13.2	-0.6
12th Grade	26.9	25.1	26.7	27.6	28.1	28.5	30.0	29.4	29.4	29.0‡	30.7	29.5	27.7	28.7	27.4	26.9	25.5	24.9	24.0	24.7	24.9	24.1‡	24.8	22.6	21.1	20.7	19.5	18.9	18.4	17.5	-0.9
Any Illicit Drug including Inhalants a,c																															
8th Grade	28.5	29.6	32.3	35.1	38.1	39.4	38.1	37.8	37.2	35.1	34.5	31.6	30.3	30.2	30.0	29.2	27.7	28.3	27.9	28.6	26.4	25.1‡	25.9	25.2	24.9	20.6	23.3	23.2	25.4	28.4	+3.0
10th Grade	36.1	36.2	38.7	42.7	45.9	49.8	50.9	49.3	49.9	49.3	48.8	47.7	44.9	43.1	42.1	40.1	39.8	38.7	40.0	40.6	40.8	40.0‡	41.6	40.4	37.2	35.9	37.0	38.7	39.8	39.7	-0.1
12th Grade	47.6	44.4	46.6	49.1	51.5	53.5	56.3	56.1	56.3	57.0	56.0	54.6	52.8	53.0	53.5	51.2	49.1	49.3	48.4	49.9	51.8	50.3‡	52.3	49.9	51.4	49.3	50.3	49.0	49.1	47.6	-1.5
Marijuana/Hashish																															
8th Grade	10.2	11.2	12.6	16.7	19.9	23.1	22.6	22.2	22.0	20.3	20.4	19.2	17.5	16.3	16.5	15.7	14.2	14.6	15.7	17.3	16.4	15.2	16.5	15.6	15.5	12.8	13.5	13.9	15.2	14.8	-0.3
10th Grade	23.4	21.4	24.4	30.4	34.1	39.8	42.3	39.6	40.9	40.3	40.1	38.7	36.4	35.1	34.1	31.8	31.0	29.9	32.3	33.4	34.5	33.8	35.8	33.7	31.1	29.7	30.7	32.6	34.0	33.3	-0.8
12th Grade	36.7	32.6	35.3	38.2	41.7	44.9	49.6	49.1	49.7	48.8	49.0	47.8	46.1	45.7	44.8	42.3	41.8	42.6	42.0	43.8	45.5	45.2	45.5	44.4	44.7	44.5	45.0	43.6	43.7	43.7	-0.0
Marijuana Under a Doc	tor's Or	ders ^{n,o}																													
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.1	1.1	1.3	1.0	-0.2
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.1	1.3	2.0	2.0	0.0
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.5	1.2	2.0	§	_
Inhalants ^{c,d}																															
8th Grade	17.6	17.4	19.4	19.9	21.6	21.2	21.0	20.5	19.7	17.9	17.1	15.2	15.8	17.3	17.1	16.1	15.6	15.7	14.9	14.5	13.1	11.8	10.8	10.8	9.4	7.7	8.9	8.7	9.5	12.6	+3.2 s
10th Grade	15.7	16.6	17.5	18.0	19.0	19.3	18.3	18.3	17.0	16.6	15.2	13.5	12.7	12.4	13.1	13.3	13.6	12.8	12.3	12.0	10.1	9.9	8.7	8.7	7.2	6.6	6.1	6.5	6.8	7.4	+0.6
12th Grade	17.6	16.6	17.4	17.7	17.4	16.6	16.1	15.2	15.4	14.2	13.0	11.7	11.2	10.9	11.4	11.1	10.5	9.9	9.5	9.0	8.1	7.9	6.9	6.5	5.7	5.0	4.9	4.4	5.3	3.8	-1.5 s
Hallucinogens b,f																															
8th Grade	3.2	3.8	3.9	4.3	5.2	5.9	5.4	4.9	4.8	4.6‡	5.2	4.1	4.0	3.5	3.8	3.4	3.1	3.3	3.0	3.4	3.3	2.8	2.5	2.0	2.0	1.9	1.9	2.2	2.4	3.0	+0.6
10th Grade	6.1	6.4	6.8	8.1	9.3	10.5	10.5	9.8	9.7	8.9‡	8.9	7.8	6.9	6.4	5.8	6.1	6.4	5.5	6.1	6.1	6.0	5.2	5.4	5.0	4.6	4.4	4.2	3.9	4.7	4.8	+0.1
12th Grade	9.6	9.2	10.9	11.4	12.7	14.0	15.1	14.1	13.7	13.0‡	14.7	12.0	10.6	9.7	8.8	8.3	8.4	8.7	7.4	8.6	8.3	7.5	7.6	6.3	6.4	6.7	6.7	6.6	6.9	7.5	+0.5

(Entries are percentages.)

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	2002	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2019 ^{kk}	<u>2020</u>	2019– 2020 <u>change</u>
LSD ^b																															
8th Grade	2.7	3.2	3.5	3.7	4.4	5.1	4.7	4.1	4.1	3.9	3.4	2.5	2.1	1.8	1.9	1.6	1.6	1.9	1.7	1.8	1.7	1.3	1.4	1.1	1.3	1.2	1.3	1.4	1.6	2.1	+0.5
10th Grade	5.6	5.8	6.2	7.2	8.4	9.4	9.5	8.5	8.5	7.6	6.3	5.0	3.5	2.8	2.5	2.7	3.0	2.6	3.0	3.0	2.8	2.6	2.7	2.6	3.0	3.2	3.0	2.8	3.6	3.8	+0.2
12th Grade	8.8	8.6	10.3	10.5	11.7	12.6	13.6	12.6	12.2	11.1	10.9	8.4	5.9	4.6	3.5	3.3	3.4	4.0	3.1	4.0	4.0	3.8	3.9	3.7	4.3	4.9	5.0	5.1	5.6	5.9	+0.3
Hallucinogens other than LSD ^b																															
8th Grade	1.4	1.7	1.7	2.2	2.5	3.0	2.6	2.5	2.4	2.3‡	3.9	3.3	3.2	3.0	3.3	2.8	2.6	2.5	2.4	2.7	2.8	2.3	1.9	1.5	1.2	1.3	1.2	1.5	1.7	2.0	+0.2
10th Grade	2.2	2.5	2.8	3.8	3.9	4.7	4.8	5.0	4.7	4.8‡	6.6	6.3	5.9	5.8	5.2	5.5	5.7	4.8	5.4	5.3	5.2	4.5	4.4	4.1	3.3	3.1	2.9	2.7	3.3	3.4	+0.2
12th Grade	3.7	3.3	3.9	4.9	5.4	6.8	7.5	7.1	6.7	6.9‡	10.4	9.2	9.0	8.7	8.1	7.8	7.7	7.8	6.8	7.7	7.3	6.6	6.4	5.1	4.8	4.7	4.8	4.5	4.3	4.7	+0.4
MDMA (Ecstasy, Molly	') ^g																														
8th Grade	_	_	_	_	_	3.4	3.2	2.7	2.7	4.3	5.2	4.3	3.2	2.8	2.8	2.5	2.3	2.4	2.2	3.3	2.6	2.0	1.8‡	2.4	2.3	1.7	1.5	1.6	1.7	1.7	0.0
10th Grade	_	_	_	_	_	5.6	5.7	5.1	6.0	7.3	8.0	6.6	5.4	4.3	4.0	4.5	5.2	4.3	5.5	6.4	6.6	5.0	5.7‡	5.2	3.8	2.8	2.8	2.4	3.2	2.6	-0.6
12th Grade	_	_	_	_	_	6.1	6.9	5.8	8.0	11.0	11.7	10.5	8.3	7.5	5.4	6.5	6.5	6.2	6.5	7.3	8.0	7.2	7.1‡	7.9	5.9	4.9	4.9	4.1	3.3	3.6	+0.3
Cocaine																															
8th Grade	2.3	2.9	2.9	3.6	4.2	4.5	4.4	4.6	4.7	4.5	4.3	3.6	3.6	3.4	3.7	3.4	3.1	3.0	2.6	2.6	2.2	1.9	1.7	1.8	1.6	1.4	1.3	1.4	1.2	1.6	+0.3
10th Grade	4.1	3.3	3.6	4.3	5.0	6.5	7.1	7.2	7.7	6.9	5.7	6.1	5.1	5.4	5.2	4.8	5.3	4.5	4.6	3.7	3.3	3.3	3.3	2.6	2.7	2.1	2.1	2.6	2.5	1.6	-0.9
12th Grade	7.8	6.1	6.1	5.9	6.0	7.1	8.7	9.3	9.8	8.6	8.2	7.8	7.7	8.1	8.0	8.5	7.8	7.2	6.0	5.5	5.2	4.9	4.5	4.6	4.0	3.7	4.2	3.9	3.8	4.1	+0.4
Crack																															
8th Grade	1.3	1.6	1.7	2.4	2.7	2.9	2.7	3.2	3.1	3.1	3.0	2.5	2.5	2.4	2.4	2.3	2.1	2.0	1.7	1.5	1.5	1.0	1.2	1.2	1.0	0.9	0.8	0.9	0.9	0.9	+0.1
10th Grade	1.7	1.5	1.8	2.1	2.8	3.3	3.6	3.9	4.0	3.7	3.1	3.6	2.7	2.6	2.5	2.2	2.3	2.0	2.1	1.8	1.6	1.4	1.5	1.0	1.1	0.8	0.8	1.0	0.9	0.7	-0.3
12th Grade	3.1	2.6	2.6	3.0	3.0	3.3	3.9	4.4	4.6	3.9	3.7	3.8	3.6	3.9	3.5	3.5	3.2	2.8	2.4	2.4	1.9	2.1	1.8	1.8	1.7	1.4	1.7	1.5	1.7	1.6	0.0
Cocaine other than Cra	ack ^h																														
8th Grade	2.0	2.4	2.4	3.0	3.4	3.8	3.5	3.7	3.8	3.5	3.3	2.8	2.7	2.6	2.9	2.7	2.6	2.4	2.1	2.1	1.8	1.6	1.4	1.4	1.3	1.1	1.0	1.2	1.0	1.3	+0.3
10th Grade	3.8	3.0	3.3	3.8	4.4	5.5	6.1	6.4	6.8	6.0	5.0	5.2	4.5	4.8	4.6	4.3	4.8	4.0	4.1	3.4	3.0	3.0	2.9	2.2	2.3	1.9	1.9	2.4	2.3	1.5	-0.8
12th Grade	7.0	5.3	5.4	5.2	5.1	6.4	8.2	8.4	8.8	7.7	7.4	7.0	6.7	7.3	7.1	7.9	6.8	6.5	5.3	5.1	4.9	4.4	4.2	4.1	3.4	3.3	3.5	3.3	3.2	4.0	+0.8

(Entries are percentages.)

Heroin ^{I,j} 8th Grade	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u> 2.0	<u>1995</u> 2.3	<u>1996</u> 2.4	<u>1997</u> 2.1	<u>1998</u> 2.3	<u>1999</u> 2.3	<u>2000</u>	<u>2001</u> 1.7	<u>2002</u> 1.6	2003 1.6	2004 1.6	2005 1.5	<u>2006</u>	2007 1.3	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u> 1.2	2012 0.8	2013 1.0	2014 0.9	2015 0.5	2016 0.5	2017 0.7	2018 ; 0.6	2019 ^{kk} 0.7	<u>2020</u> 0.5	2019– 2020 change
10th Grade	1.2	1.2	1.3	1.5	1.7	2.1	2.1	2.3	2.3	2.2	1.7	1.8	1.5	1.5	1.5	1.4	1.5	1.2	1.5	1.3	1.2	1.1	1.0	0.9	0.7	0.6	0.4	0.4	0.4	0.3	-0.1
12th Grade	0.9	1.2	1.1	1.2	1.6	1.8	2.1	2.0	2.0	2.4	1.8	1.7	1.5	1.5	1.5	1.4	1.5	1.3	1.2	1.6	1.4	1.1	1.0	1.0	8.0	0.7	0.7	8.0	0.6	0.4	-0.2
With a Needle ^j																															
8th Grade	_	_	_	_	1.5	1.6	1.3	1.4	1.6	1.1	1.2	1.0	1.0	1.1	1.0	1.0	0.9	0.9	0.9	0.9	8.0	0.6	0.6	8.0	0.3	0.3	0.4	0.4	0.5	0.3	-0.2
10th Grade	_	_	_	_	1.0	1.1	1.1	1.2	1.3	1.0	8.0	1.0	0.9	8.0	8.0	0.9	0.9	0.7	0.9	8.0	8.0	0.7	0.7	0.6	0.5	0.5	0.3	0.2	0.3	0.2	-0.1
12th Grade	_	_	_	_	0.7	8.0	0.9	8.0	0.9	8.0	0.7	8.0	0.7	0.7	0.9	8.0	0.7	0.7	0.6	1.1	0.9	0.7	0.7	8.0	0.6	0.5	0.4	0.5	0.4	0.2	-0.1
Without a Needle j																															
8th Grade	_	_	_	_	1.5	1.6	1.4	1.5	1.4	1.3	1.1	1.0	1.1	1.0	0.9	0.9	0.7	0.9	0.8	0.7	0.7	0.5	0.5	0.4	0.3	0.4	0.5	0.3	0.4	0.4	+0.1
10th Grade	_	_	_	_	1.1	1.7	1.7	1.7	1.6	1.7	1.3	1.3	1.0	1.1	1.1	1.0	1.1	0.8	1.0	0.9	0.8	8.0	0.7	0.5	0.4	0.3	0.3	0.2	0.3	0.2	-0.1
12th Grade	_	_	_	_	1.4	1.7	2.1	1.6	1.8	2.4	1.5	1.6	1.8	1.4	1.3	1.1	1.4	1.1	0.9	1.4	1.3	8.0	0.9	0.7	0.7	0.6	0.4	0.6	0.4	0.1	-0.3 s
Narcotics other than He	roin ^{k,l}																														
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	6.6	6.1	6.4	6.6	7.2	8.2	9.7	9.8	10.2	10.6	9.9‡	13.5	13.2	13.5	12.8	13.4	13.1	13.2	13.2	13.0	13.0	12.2	11.1	9.5	8.4	7.8	6.8	6.0	5.3	5.3	0.0
Amphetamines k,m																															
8th Grade	10.5	10.8	11.8	12.3	13.1	13.5	12.3	11.3	10.7	9.9	10.2	8.7	8.4	7.5	7.4	7.3	6.5	6.8	6.0	5.7	5.2	4.5‡	6.9	6.7	6.8	5.7	5.7	5.9	6.8	8.9	+2.1
10th Grade	13.2	13.1	14.9	15.1	17.4	17.7	17.0	16.0	15.7	15.7	16.0	14.9	13.1	11.9	11.1	11.2	11.1	9.0	10.3	10.6	9.0	8.9‡	11.2	10.6	9.7	8.8	8.2	8.6	8.2	7.0	-1.2
12th Grade	15.4	13.9	15.1	15.7	15.3	15.3	16.5	16.4	16.3	15.6	16.2	16.8	14.4	15.0	13.1	12.4	11.4	10.5	9.9	11.1	12.2	12.0‡	13.8	12.1	10.8	10.0	9.2	8.6	7.7	7.3	-0.3
Methamphetamine n,o																															
8th Grade	_	_	_	_	_	_	_	_	4.5	4.2	4.4	3.5	3.9	2.5	3.1	2.7	1.8	2.3	1.6	1.8	1.3	1.3	1.4	1.0	8.0	0.6	0.7	0.7	0.9	1.1	+0.3
10th Grade	_	_	_	_	_	_	_	_	7.3	6.9	6.4	6.1	5.2	5.3	4.1	3.2	2.8	2.4	2.8	2.5	2.1	1.8	1.6	1.4	1.3	0.7	0.9	8.0	0.7	0.8	+0.1
12th Grade	_	_	_	_	_	_	_	_	8.2	7.9	6.9	6.7	6.2	6.2	4.5	4.4	3.0	2.8	2.4	2.3	2.1	1.7	1.5	1.9	1.0	1.2	1.1	0.7	8.0	1.7	+0.9

(Entries are percentages.)

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	2003	2004	2005	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2019 ^{kk}	<u>2020</u>	2019– 2020 <u>change</u>
Crystal Methamphetan	nine (Ic	e)°																													
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	3.3	2.9	3.1	3.4	3.9	4.4	4.4	5.3	4.8	4.0	4.1	4.7	3.9	4.0	4.0	3.4	3.4	2.8	2.1	1.8	2.1	1.7	2.0	1.3	1.2	1.4	1.5	1.1	1.3	0.2	-1.1 sss
Sedatives (Barbiturates)) ^{k,p}																														
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	6.2	5.5	6.3	7.0	7.4	7.6	8.1	8.7	8.9	9.2	8.7	9.5	8.8	9.9	10.5	10.2	9.3	8.5	8.2	7.5	7.0	6.9	7.5	6.8	5.9	5.2	4.5	4.2	4.2	4.4	+0.2
Tranquilizers b,k																															
8th Grade	3.8	4.1	4.4	4.6	4.5	5.3	4.8	4.6	4.4	4.4‡	5.0	4.3	4.4	4.0	4.1	4.3	3.9	3.9	3.9	4.4	3.4	3.0	2.9	2.9	3.0	3.0	3.4	3.5	4.0	3.9	-0.1
10th Grade	5.8	5.9	5.7	5.4	6.0	7.1	7.3	7.8	7.9	8.0‡	9.2	8.8	7.8	7.3	7.1	7.2	7.4	6.8	7.0	7.3	6.8	6.3	5.5	5.8	5.8	6.1	6.0	6.0	5.7	4.9	-0.8
12th Grade	7.2	6.0	6.4	6.6	7.1	7.2	7.8	8.5	9.3	8.9‡	10.3	11.4	10.2	10.6	9.9	10.3	9.5	8.9	9.3	8.5	8.7	8.5	7.7	7.4	6.9	7.6	7.5	6.6	6.1	7.0	+0.9
Any Prescription Drug ^q																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	24.0	23.9	22.2	21.5	20.9	21.6	21.7	21.2‡	22.2	19.9	18.3	18.0	16.5	15.5	14.6	14.2	-0.4
Rohypnol ^r																															
8th Grade	_	_	_	_	_	1.5	1.1	1.4	1.3	1.0	1.1	0.8	1.0	1.0	1.1	1.0	1.0	0.7	0.7	0.9	2.0	1.0	0.7	0.6	8.0	0.9	0.6	0.7	0.6	§	_
10th Grade	_	_	_	_	_	1.5	1.7	2.0	1.8	1.3	1.5	1.3	1.0	1.2	1.0	0.8	1.3	0.9	0.7	1.4	1.2	0.8	1.1	1.0	0.5	1.0	0.7	0.5	0.9	§	_
12th Grade	_	_	_	_	_	1.2	1.8	3.0	2.0	1.5	1.7	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Alcohol ^s																															
Any Use																															
8th Grade	70.1	69.3‡	55.7	55.8	54.5	55.3	53.8	52.5	52.1	51.7	50.5	47.0	45.6	43.9	41.0	40.5	38.9	38.9	36.6	35.8	33.1	29.5	27.8	26.8	26.1	22.8	23.1	23.5	24.5	25.6	+1.1
10th Grade	83.8	82.3‡	71.6	71.1	70.5	71.8	72.0	69.8	70.6	71.4	70.1	66.9	66.0	64.2	63.2	61.5	61.7	58.3	59.1	58.2	56.0	54.0	52.1	49.3	47.1	43.4	42.2	43.0	43.1	46.4	+3.3
12th Grade	88.0	87.5‡	80.0	80.4	80.7	79.2	81.7	81.4	80.0	80.3	79.7	78.4	76.6	76.8	75.1	72.7	72.2	71.9	72.3	71.0	70.0	69.4	68.2	66.0	64.0	61.2	61.5	58.5	58.5	61.5	+3.0

(Entries are percentages.)

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	2003	<u>2004</u>	2005	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	2017	<u>2018</u>	2019 ^{kk}	<u>2020</u>	2019– 2020 <u>change</u>
Been Drunk °																															
8th Grade	26.7	26.8	26.4	25.9	25.3	26.8	25.2	24.8	24.8	25.1	23.4	21.3	20.3	19.9	19.5	19.5	17.9	18.0	17.4	16.3	14.8	12.8	12.2	10.8	10.9	8.6	9.2	9.2	10.1	10.1	-0.1
10th Grade	50.0	47.7	47.9	47.2	46.9	48.5	49.4	46.7	48.9	49.3	48.2	44.0	42.4	42.3	42.1	41.4	41.2	37.2	38.6	36.9	35.9	34.6	33.5	30.2	28.6	26.0	25.1	26.2	25.5	28.8	+3.3
12th Grade	65.4	63.4	62.5	62.9	63.2	61.8	64.2	62.4	62.3	62.3	63.9	61.6	58.1	60.3	57.5	56.4	55.1	54.7	56.5	54.1	51.0	54.2	52.3	49.8	46.7	46.3	45.3	42.9	40.8	41.7	+0.9
Flavored Alcoholic Beverages ^{e,n}																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	37.9	35.5	35.5	34.0	32.8	29.4	30.0	27.0	23.5	21.9	19.2	19.3	16.3	16.0	18.0	15.1	18.3	+3.2
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	58.6	58.8	58.1	55.7	53.5	51.4	51.3	48.4	46.7	44.9	42.3	38.7	33.3	34.8	35.9	33.2	36.4	+3.2
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	71.0	73.6	69.9	68.4	65.5	67.4	62.6	62.4	60.5	58.9	57.5	55.6	53.6	51.2	50.4	44.7	§	_
Cigarettes																															
Any Use																															
8th Grade	44.0	45.2	45.3	46.1	46.4	49.2	47.3	45.7	44.1	40.5	36.6	31.4	28.4	27.9	25.9	24.6	22.1	20.5	20.1	20.0	18.4	15.5	14.8	13.5	13.3	9.8	9.4	9.1	10.0	11.5	+1.5
10th Grade	55.1	53.5	56.3	56.9	57.6	61.2	60.2	57.7	57.6	55.1	52.8	47.4	43.0	40.7	38.9	36.1	34.6	31.7	32.7	33.0	30.4	27.7	25.7	22.6	19.9	17.5	15.9	16.0	14.2	13.9	-0.3
12th Grade	63.1	61.8	61.9	62.0	64.2	63.5	65.4	65.3	64.6	62.5	61.0	57.2	53.7	52.8	50.0	47.1	46.2	44.7	43.6	42.2	40.0	39.5	38.1	34.4	31.1	28.3	26.6	23.8	22.3	24.0	+1.7
Smokeless Tobacco ^t																															
8th Grade	22.2	20.7	18.7	19.9	20.0	20.4	16.8	15.0	14.4	12.8	11.7	11.2	11.3	11.0	10.1	10.2	9.1	9.8	9.6	9.9	9.7	8.1	7.9	8.0	8.6	6.9	6.2	6.4	7.1	7.8	+0.6
10th Grade	28.2	26.6	28.1	29.2	27.6	27.4	26.3	22.7	20.4	19.1	19.5	16.9	14.6	13.8	14.5	15.0	15.1	12.2	15.2	16.8	15.6	15.4	14.0	13.6	12.3	10.2	9.1	10.0	9.2	9.3	+0.1
12th Grade	_	32.4	31.0	30.7	30.9	29.8	25.3	26.2	23.4	23.1	19.7	18.3	17.0	16.7	17.5	15.2	15.1	15.6	16.3	17.6	16.9	17.4	17.2	15.1	13.2	14.2	11.0	10.1	9.8	§	_
Any Vaping ^{bb,cc}																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	21.7	17.5‡	18.5	21.5	24.3	24.1	-0.2
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	32.8	29.0‡	30.9	36.9	41.0	41.0	0.0
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	35.5	33.8‡	35.8	42.5	45.6	47.2	+1.6
Vaping Nicotine ^{bb}																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	10.6	13.5	20.3	22.7	+2.4
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	21.4	28.6	36.3	38.7	+2.4
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	25.0	34.0	40.8	44.3	+3.5

(Entries are percentages.)

Vaping Marijuana ^{bb} 8th Grade 10th Grade 12th Grade	<u>1991</u> — — —	<u>1992</u> 	<u>1993</u> — — —	<u>1994</u> 	<u>1995</u> — —	<u>1996</u> — — —	<u>1997</u> — —	<u>1998</u> 	<u>1999</u> — — —	<u>2000</u> 	<u>2001</u> 	<u>2002</u> 	<u>2003</u> 	<u>2004</u> 	<u>2005</u> 	<u>2006</u> 	<u>2007</u> 	<u>2008</u> 	<u>2009</u> 	<u>2010</u> 	<u>2011</u> 	<u>2012</u> 	<u>2013</u> 	<u>2014</u> 	<u>2015</u> 	<u>2016</u> — —	2017 4.0 9.8 11.9	5.5 14.2	9.0 21.8 23.7	10.2	2019– 2020 <u>change</u> +1.2 +0.9 +4.2 s
Vaping Just Flavoring ^{bb}																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	17.0	19.4	18.9	17.8	-1.0
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	27.5			27.7	-0.7
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	30.7			29.8	+0.8
JUUL ^{jj}																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	18.9	16.9	-2.1
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	32.8	30.7	-2.1
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	33.0	36.2	+3.3
Steroids ^{k,u}																															
8th Grade	1.9	1.7	1.6	2.0	2.0	1.8	1.8	2.3	2.7	3.0	2.8	2.5	2.5	1.9	1.7	1.6	1.5	1.4	1.3	1.1	1.2	1.2	1.1	1.0	1.0	0.9	1.1	1.1	1.5	2.0	+0.5
10th Grade	1.8	1.7	1.7	1.8	2.0	1.8	2.0	2.0	2.7	3.5	3.5	3.5	3.0	2.4	2.0	1.8	1.8	1.4	1.3	1.6	1.4	1.3	1.3	1.4	1.2	1.3	1.1	1.2	1.6	1.7	+0.1
12th Grade	2.1	2.1	2.0	2.4	2.3	1.9	2.4	2.7	2.9	2.5	3.7	4.0	3.5	3.4	2.6	2.7	2.2	2.2	2.2	2.0	1.8	1.8	2.1	1.9	2.3	1.6	1.6	1.6	1.6	2.0	+0.5
Legal Use of Over-the	-Counte	er Stim	nulants																												
Diet Pills ^e																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	17.2	15.0	14.8	14.9	15.6	16.0	16.6	15.7	17.1	16.6	17.1	21.0	17.9	15.6	13.7	13.0	10.4	10.5	9.5	7.2	7.7	7.7	8.1	9.1	7.9	6.4	6.7	6.2	5.1	§	_
Stay-Awake Pills ^e																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	37.0	35.6	30.5	31.3	31.2	30.5	31.0	29.6	25.5	23.0	25.6	22.5	19.8	18.4	15.8	14.8	12.3	9.6	7.6	6.4	6.3	5.9	5.2	4.5	3.8	3.6	3.8	3.6	3.4	§	

(Entries are percentages.)

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	2003	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	2008	2009	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2019 ^{kk}	<u>2020</u>	2019– 2020 <u>change</u>
Look-Alikes ^e																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	8.9	10.1	10.5	10.3	11.6	10.7	10.8	9.4	9.2	10.0	9.8	9.6	8.6	8.1	7.4	5.7	4.6	5.2	4.3	2.6	3.5	2.9	2.7	2.2	3.3	2.3	2.6	_	_	_	_
Legal Use of Prescript Stimulant-Type ^{n,dd}	ion AD	HD Dr	ugs																												
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.3	9.3	8.3	8.1	7.8	8.2	7.6	7.7	7.1	7.2	7.1	7.5	6.6	7.1	6.5	5.0	-1.5
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.7	8.5	8.4	7.8	8.2	8.6	7.2	8.0	8.3	6.8	8.8	7.1	6.5	8.2	6.6	6.0	-0.5
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.5	7.8	7.6	8.6	8.2	8.3	8.4	9.0	9.6	9.1	9.9	8.4	8.6	8.6	7.9	7.5	-0.4
Non-Stimulant-Type ^{n,d}	d																														
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	7.3	7.9	6.3	6.3	5.8	5.8	6.1	5.1	5.1	4.8	5.1	5.7	4.9	4.4	4.5	4.2	-0.3
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.3	8.3	6.7	6.8	6.8	6.1	6.4	5.2	4.9	5.8	5.8	5.2	4.6	5.1	5.2	5.1	-0.1
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	6.2	6.1	7.0	6.4	5.4	6.7	5.8	5.9	5.4	5.6	5.6	5.8	6.4	6.1	5.7	4.8	-0.9
Either Type n,dd																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	13.7	15.8	13.4	13.1	12.8	12.8	12.4	11.6	11.5	11.2	11.4	12.1	10.9	11.0	9.8	7.3	-2.5
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	14.3	14.2	12.9	12.8	13.0	12.7	12.0	12.0	11.7	11.3	13.1	11.5	10.1	12.1	9.8	9.3	-0.5
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	12.4	11.7	12.1	13.1	11.0	12.7	12.2	12.7	13.2	12.6	13.7	12.7	13.0	12.7	11.1	9.9	-1.2
Previously surveyed d	rugs th	at hav	e beer	dropp	oed.																										
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	1.6	1.5	1.4	1.7	1.5	1.8	2.0	2.7	1.7	8.0	1.9	1.5	1.6	1.3	1.1	1.2	1.2	0.6	1.1	_	_	_	_	_	_	_	_	_	_	_	_
PCP ^e																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	2.9	2.4	2.9	2.8	2.7	4.0	3.9	3.9	3.4	3.4	3.5	3.1	2.5	1.6	2.4	2.2	2.1	1.8	1.7	1.8	2.3	1.6	1.3	_	_	_	_	_	_	_	

TABLE 5 (cont.)

Trends in <u>Lifetime</u> Prevalence of Use of Various Drugs in Grades 8, 10, and 12

(Entries are percentages.)

																															2019–	
																															2020	
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	2007	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2019 ^{kk}	2020	<u>change</u>	
Methaqualone e,k																																
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
12th Grade	1.3	1.6	0.8	1.4	1.2	2.0	1.7	1.6	1.8	8.0	1.1	1.5	1.0	1.3	1.3	1.2	1.0	0.8	0.7	0.4	0.6	0.8	_	_	_	_	_	_	_	_	_	

Source. The Monitoring the Future study, the University of Michigan.

Note: See footnotes following Table 9.

(Entries are percentages.)

Any Illicit Drug ^a	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	2003	2004	2005	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019^{kk}</u>	2020	2019– 2020 <u>change</u>
8th Grade	11.3	12.9	15.1	18.5	21.4	23.6	22.1	21.0	20.5	19.5	19.5	17.7	16.1	15.2	15.5	14.8	13.2	14.1	14.5	16.0	14.7	13.4‡	15.2	14.6	14.8	12.0	12.9	13.4	14.8	15.6	+0.7
10th Grade	21.4	20.4	24.7	30.0	33.3	37.5	38.5	35.0	35.9	36.4	37.2	34.8	32.0	31.1	29.8	28.7	28.1	26.9	29.4	30.2	31.1	30.1‡	32.1	29.9	27.9	26.8	27.8	29.9	31.0	30.4	-0.7
12th Grade	29.4	27.1	31.0	35.8	39.0	40.2	42.4	41.4	42.1	40.9	41.4	41.0	39.3	38.8	38.4	36.5	35.9	36.6	36.5	38.3	40.0	39.7‡	40.1	38.7	38.6	38.3	39.9	38.8	38.0	36.8	-1.2
Any Illicit Drug other than Marijuana ^{a,b}																															
8th Grade	8.4	9.3	10.4	11.3	12.6	13.1	11.8	11.0	10.5	10.2‡	10.8	8.8	8.8	7.9	8.1	7.7	7.0	7.4	7.0	7.1	6.4	5.5‡	6.3	6.4	6.3	5.4	5.8	6.1	6.5	7.7	+1.2
10th Grade	12.2	12.3	13.9	15.2	17.5	18.4	18.2	16.6	16.7	16.7‡	17.9	15.7	13.8	13.5	12.9	12.7	13.1	11.3	12.2	12.1	11.2	10.8‡	11.2	11.2	10.5	9.8	9.4	9.6	9.1	8.6	-0.5
12th Grade	16.2	14.9	17.1	18.0	19.4	19.8	20.7	20.2	20.7	20.4‡	21.6	20.9	19.8	20.5	19.7	19.2	18.5	18.3	17.0	17.3	17.6	17.0‡	17.8	15.9	15.2	14.3	13.3	12.4	11.5	11.4	0.0
Any Illicit Drug including Inhalants ^{a,c}																															
8th Grade	16.7	18.2	21.1	24.2	27.1	28.7	27.2	26.2	25.3	24.0	23.9	21.4	20.4	20.2	20.4	19.7	18.0	19.0	18.8	20.3	18.2	17.0‡	17.6	16.8	17.0	13.5	15.8	16.0	17.5	18.5	+1.0
10th Grade	23.9	23.5	27.4	32.5	35.6	39.6	40.3	37.1	37.7	38.0	38.7	36.1	33.5	32.9	31.7	30.7	30.2	28.8	31.2	31.8	32.5	31.5‡	33.2	31.0	28.9	27.7	29.1	31.0	31.7	31.3	-0.4
12th Grade	31.2	28.8	32.5	37.6	40.2	41.9	43.3	42.4	42.8	42.5	42.6	42.1	40.5	39.1	40.3	38.0	37.0	37.3	37.6	39.2	41.5	40.2‡	42.3	39.2	40.2	38.7	41.2	40.2	38.8	38.7	-0.1
Marijuana/Hashish																															
8th Grade	6.2	7.2	9.2	13.0	15.8	18.3	17.7	16.9	16.5	15.6	15.4	14.6	12.8	11.8	12.2	11.7	10.3	10.9	11.8	13.7	12.5	11.4	12.7	11.7	11.8	9.4	10.1	10.5	11.8	11.4	-0.4
10th Grade	16.5	15.2	19.2	25.2	28.7	33.6	34.8	31.1	32.1	32.2	32.7	30.3	28.2	27.5	26.6	25.2	24.6	23.9	26.7	27.5	28.8	28.0	29.8	27.3	25.4	23.9	25.5	27.5	28.8	28.0	-0.8
12th Grade	23.9	21.9	26.0	30.7	34.7	35.8	38.5	37.5	37.8	36.5	37.0	36.2	34.9	34.3	33.6	31.5	31.7	32.4	32.8	34.8	36.4	36.4	36.4	35.1	34.9	35.6	37.1	35.9	35.7	35.2	-0.5
Synthetic Marijuana n,o																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	4.4	4.0	3.3	3.1	2.7	2.0	1.6	2.7	1.6	-1.0 s
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.8	7.4	5.4	4.3	3.3	2.7	2.9	2.6	2.5	-0.1
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	11.4	11.3	7.9	5.8	5.2	3.5	3.7	3.5	3.3	2.4	-0.9
Inhalants ^{c,d}																															
8th Grade	9.0	9.5	11.0	11.7	12.8	12.2	11.8	11.1	10.3	9.4	9.1	7.7	8.7	9.6	9.5	9.1	8.3	8.9	8.1	8.1	7.0	6.2	5.2	5.3	4.6	3.8	4.7	4.6	4.7	6.1	+1.5
10th Grade	7.1	7.5	8.4	9.1	9.6	9.5	8.7	8.0	7.2	7.3	6.6	5.8	5.4	5.9	6.0	6.5	6.6	5.9	6.1	5.7	4.5	4.1	3.5	3.3	2.9	2.4	2.3	2.4	2.8	2.9	+0.1
12th Grade	6.6	6.2	7.0	7.7	8.0	7.6	6.7	6.2	5.6	5.9	4.5	4.5	3.9	4.2	5.0	4.5	3.7	3.8	3.4	3.6	3.2	2.9	2.5	1.9	1.9	1.7	1.5	1.6	1.9	1.1	-0.8

(Entries are percentages.)

																															2019–
																															2020
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	2002	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	2007	2008	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2019 ^{kk}	<u>2020</u>	<u>change</u>
Hallucinogens b,f																															
8th Grade	1.9	2.5	2.6	2.7	3.6	4.1	3.7	3.4	2.9	2.8‡	3.4	2.6	2.6	2.2	2.4	2.1	1.9	2.1	1.9	2.2	2.2	1.6	1.6	1.3	1.3	1.2	1.1	1.4	1.3	1.7	+0.4
10th Grade	4.0	4.3	4.7	5.8	7.2	7.8	7.6	6.9	6.9	6.1‡	6.2	4.7	4.1	4.1	4.0	4.1	4.4	3.9	4.1	4.2	4.1	3.5	3.4	3.3	3.1	2.9	2.8	2.7	3.1	3.4	+0.2
12th Grade	5.8	5.9	7.4	7.6	9.3	10.1	9.8	9.0	9.4	8.1‡	9.1	6.6	5.9	6.2	5.5	4.9	5.4	5.9	4.7	5.5	5.2	4.8	4.5	4.0	4.2	4.3	4.4	4.3	4.6	5.3	+0.7
LSD ^b																															
8th Grade	1.7	2.1	2.3	2.4	3.2	3.5	3.2	2.8	2.4	2.4	2.2	1.5	1.3	1.1	1.2	0.9	1.1	1.3	1.1	1.2	1.1	8.0	1.0	0.7	0.9	0.8	0.9	0.9	0.9	1.1	+0.2
10th Grade	3.7	4.0	4.2	5.2	6.5	6.9	6.7	5.9	6.0	5.1	4.1	2.6	1.7	1.6	1.5	1.7	1.9	1.8	1.9	1.9	1.8	1.7	1.7	1.9	2.0	2.1	2.1	2.0	2.3	2.5	+0.3
12th Grade	5.2	5.6	6.8	6.9	8.4	8.8	8.4	7.6	8.1	6.6	6.6	3.5	1.9	2.2	1.8	1.7	2.1	2.7	1.9	2.6	2.7	2.4	2.2	2.5	2.9	3.0	3.3	3.2	3.6	3.9	+0.3
Hallucinogens																															
other than LSD b																															
8th Grade	0.7	1.1	1.0	1.3	1.7	2.0	1.8	1.6	1.5	1.4‡	2.4	2.1	2.1	1.9	2.0	1.8	1.6	1.6	1.5	1.8	1.8	1.3	1.2	1.0	0.8	0.8	0.7	0.9	0.9	1.1	+0.2
10th Grade	1.3	1.4	1.9	2.4	2.8	3.3	3.3	3.4	3.2	3.1‡	4.3	4.0	3.6	3.7	3.5	3.7	3.8	3.3	3.5	3.5	3.5	3.0	2.7	2.6	1.9	2.0	1.8	1.7	2.1	2.2	+0.1
12th Grade	2.0	1.7	2.2	3.1	3.8	4.4	4.6	4.6	4.3	4.4‡	5.9	5.4	5.4	5.6	5.0	4.6	4.8	5.0	4.2	4.8	4.3	4.0	3.7	3.0	2.9	2.7	2.9	2.7	2.7	2.8	+0.1
PCP ^e																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	1.4	1.4	1.4	1.6	1.8	2.6	2.3	2.1	1.8	2.3	1.8	1.1	1.3	0.7	1.3	0.7	0.9	1.1	1.0	1.0	1.3	0.9	0.7	8.0	1.4	1.3	1.0	1.1	1.1	§	_
MDMA (Ecstasy, Molly	/) ^g																														
8th Grade		_	_	_	_	2.3	2.3	1.8	1.7	3.1	3.5	2.9	2.1	1.7	1.7	1.4	1.5	1.7	1.3	2.4	1.7	1.1	1.1‡	1.5	1.4	1.0	0.9	1.1	1.1	0.8	-0.3
10th Grade		_	_	_	_	4.6	3.9	3.3	4.4	5.4	6.2	4.9	3.0	2.4	2.6	2.8	3.5	2.9	3.7	4.7	4.5	3.0	3.6‡	3.8	2.4	1.8	1.7	1.4	1.7	1.2	-0.4
12th Grade		_	_	_	_	4.6	4.0	3.6	5.6	8.2	9.2	7.4	4.5	4.0	3.0	4.1	4.5	4.3	4.3	4.5	5.3	3.8	4.0‡	5.0	3.6	2.7	2.6	2.2	2.2	1.8	-0.3
Salvia ^{n,o}																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.7	1.6	1.4	1.2	0.6	0.7	0.9	0.4	0.6	0.8	0.5	-0.3
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.7	3.9	2.5	2.3	1.8	1.2	0.9	0.9	0.7	0.9	1.2	+0.3
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	5.7	5.5	5.9	4.4	3.4	1.8	1.9	1.8	1.5	0.9	0.7	0.7	0.0

(Entries are percentages.)

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	2003	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2019 ^{kk}	<u>2020</u>	2019– 2020 <u>change</u>
Cocaine																															
8th Grade	1.1	1.5	1.7	2.1	2.6	3.0	2.8	3.1	2.7	2.6	2.5	2.3	2.2	2.0	2.2	2.0	2.0	1.8	1.6	1.6	1.4	1.2	1.0	1.0	0.9	8.0	8.0	8.0	0.7	0.5	-0.2
10th Grade	2.2	1.9	2.1	2.8	3.5	4.2	4.7	4.7	4.9	4.4	3.6	4.0	3.3	3.7	3.5	3.2	3.4	3.0	2.7	2.2	1.9	2.0	1.9	1.5	1.8	1.3	1.4	1.5	1.5	1.1	-0.4
12th Grade	3.5	3.1	3.3	3.6	4.0	4.9	5.5	5.7	6.2	5.0	4.8	5.0	4.8	5.3	5.1	5.7	5.2	4.4	3.4	2.9	2.9	2.7	2.6	2.6	2.5	2.3	2.7	2.3	2.2	2.9	+0.6
Crack																															
8th Grade	0.7	0.9	1.0	1.3	1.6	1.8	1.7	2.1	1.8	1.8	1.7	1.6	1.6	1.3	1.4	1.3	1.3	1.1	1.1	1.0	0.9	0.6	0.6	0.7	0.5	0.5	0.5	0.4	0.4	0.2	-0.2 s
10th Grade	0.9	0.9	1.1	1.4	1.8	2.1	2.2	2.5	2.4	2.2	1.8	2.3	1.6	1.7	1.7	1.3	1.3	1.3	1.2	1.0	0.9	8.0	8.0	0.5	0.7	0.4	0.6	0.6	0.6	0.5	0.0
12th Grade	1.5	1.5	1.5	1.9	2.1	2.1	2.4	2.5	2.7	2.2	2.1	2.3	2.2	2.3	1.9	2.1	1.9	1.6	1.3	1.4	1.0	1.2	1.1	1.1	1.1	8.0	1.0	0.9	1.0	1.2	+0.1
Cocaine other than Cra	ack ^h																														
8th Grade	1.0	1.2	1.3	1.7	2.1	2.5	2.2	2.4	2.3	1.9	1.9	1.8	1.6	1.6	1.7	1.6	1.5	1.4	1.3	1.3	1.1	1.0	8.0	8.0	8.0	0.6	0.6	0.7	0.6	0.5	0.0
10th Grade	2.1	1.7	1.8	2.4	3.0	3.5	4.1	4.0	4.4	3.8	3.0	3.4	2.8	3.3	3.0	2.9	3.1	2.6	2.3	1.9	1.7	1.8	1.6	1.3	1.5	1.1	1.2	1.4	1.4	1.0	-0.4
12th Grade	3.2	2.6	2.9	3.0	3.4	4.2	5.0	4.9	5.8	4.5	4.4	4.4	4.2	4.7	4.5	5.2	4.5	4.0	3.0	2.6	2.6	2.4	2.4	2.4	2.1	2.0	2.3	2.0	1.9	2.9	+1.0
Heroin ^{I,j}																															
8th Grade	0.7	0.7	0.7	1.2	1.4	1.6	1.3	1.3	1.4	1.1	1.0	0.9	0.9	1.0	8.0	8.0	8.0	0.9	0.7	8.0	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.2	-0.1
10th Grade	0.5	0.6	0.7	0.9	1.1	1.2	1.4	1.4	1.4	1.4	0.9	1.1	0.7	0.9	0.9	0.9	8.0	8.0	0.9	8.0	8.0	0.6	0.6	0.5	0.5	0.3	0.2	0.2	0.3	0.2	-0.1
12th Grade	0.4	0.6	0.5	0.6	1.1	1.0	1.2	1.0	1.1	1.5	0.9	1.0	8.0	0.9	8.0	8.0	0.9	0.7	0.7	0.9	8.0	0.6	0.6	0.6	0.5	0.3	0.4	0.4	0.4	0.3	0.0
With a Needle ^j																															
8th Grade	_	_	_	_	0.9	1.0	8.0	0.8	0.9	0.6	0.7	0.6	0.6	0.7	0.6	0.5	0.6	0.5	0.5	0.6	0.5	0.4	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.0
10th Grade	_	_	_	_	0.6	0.7	0.7	8.0	0.6	0.5	0.4	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.5	0.4	0.2	0.3	0.2	0.1	0.2	0.2	-0.1
12th Grade	_	_	_	_	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.3	0.7	0.6	0.4	0.4	0.5	0.3	0.3	0.2	0.3	0.3	0.1	-0.2
Without a Needle ^j																															
8th Grade	_	_	_	_	0.8	1.0	8.0	0.8	0.9	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.4	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.0
10th Grade	_	_	_	_	0.8	0.9	1.1	1.0	1.1	1.1	0.7	0.8	0.5	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.2	0.1	-0.1
12th Grade	_	_	_	_	1.0	1.0	1.2	8.0	1.0	1.6	8.0	8.0	8.0	0.7	8.0	0.6	1.0	0.5	0.6	8.0	0.7	0.4	0.4	0.5	0.4	0.3	0.2	0.2	0.2	0.1	-0.1

(Entries are percentages.)

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	2002	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	2008	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2019 ^{kk}	<u>2020</u>	2019– 2020 <u>change</u>
Narcotics other than He	roin ^{k,l}																														
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	3.5	3.3	3.6	3.8	4.7	5.4	6.2	6.3	6.7	7.0	6.7‡	9.4	9.3	9.5	9.0	9.0	9.2	9.1	9.2	8.7	8.7	7.9	7.1	6.1	5.4	4.8	4.2	3.4	2.7	2.1	-0.6
OxyContin k,n,v																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	1.3	1.7	1.7	1.8	2.6	1.8	2.1	2.0	2.1	1.8	1.6	2.0	1.0	8.0	0.9	8.0	8.0	1.2	0.9	-0.4
10th Grade	_	_	_	_	_	_	_	_	_	_	_	3.0	3.6	3.5	3.2	3.8	3.9	3.6	5.1	4.6	3.9	3.0	3.4	3.0	2.6	2.1	2.2	2.2	2.0	1.0	-1.1 s
12th Grade	_	_	_	_	_	_	_	_	_	_	_	4.0	4.5	5.0	5.5	4.3	5.2	4.7	4.9	5.1	4.9	4.3	3.6	3.3	3.7	3.4	2.7	2.3	1.7	2.4	+0.7
Vicodin k,n,v																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	2.5	2.8	2.5	2.6	3.0	2.7	2.9	2.5	2.7	2.1	1.3	1.4	1.0	0.9	8.0	0.7	0.6	0.9	0.5	-0.4
10th Grade	_	_	_	_	_	_	_	_	_	_	_	6.9	7.2	6.2	5.9	7.0	7.2	6.7	8.1	7.7	5.9	4.4	4.6	3.4	2.5	1.7	1.5	1.1	1.1	0.9	-0.2
12th Grade	_	_	_	_	_	_	_	_	_	_	_	9.6	10.5	9.3	9.5	9.7	9.6	9.7	9.7	8.0	8.1	7.5	5.3	4.8	4.4	2.9	2.0	1.7	1.1	1.2	+0.2
Amphetamines k,m																															
8th Grade	6.2	6.5	7.2	7.9	8.7	9.1	8.1	7.2	6.9	6.5	6.7	5.5	5.5	4.9	4.9	4.7	4.2	4.5	4.1	3.9	3.5	2.9‡	4.2	4.3	4.1	3.5	3.5	3.7	4.1	5.3	+1.2
10th Grade	8.2	8.2	9.6	10.2	11.9	12.4	12.1	10.7	10.4	11.1	11.7	10.7	9.0	8.5	7.8	7.9	8.0	6.4	7.1	7.6	6.6	6.5‡	7.9	7.6	6.8	6.1	5.6	5.7	5.2	4.3	-1.0
12th Grade	8.2	7.1	8.4	9.4	9.3	9.5	10.2	10.1	10.2	10.5	10.9	11.1	9.9	10.0	8.6	8.1	7.5	6.8	6.6	7.4	8.2	7.9‡	9.2	8.1	7.7	6.7	5.9	5.5	4.5	4.3	-0.2
Ritalin k,n,o																															
8th Grade	_	_	_	_	_	_	_	_	_	_	2.9	2.8	2.6	2.5	2.4	2.6	2.1	1.6	1.8	1.5	1.3	0.7	1.1	0.9	0.6	8.0	0.4	0.5	1.0	0.5	-0.4
10th Grade	_	_	_	_	_	_	_	_	_	_	4.8	4.8	4.1	3.4	3.4	3.6	2.8	2.9	3.6	2.7	2.6	1.9	1.8	1.8	1.6	1.2	8.0	0.9	0.7	1.0	+0.3
12th Grade	_	_	_	_	_	_	_	_	_	_	5.1	4.0	4.0	5.1	4.4	4.4	3.8	3.4	2.1	2.7	2.6	2.6	2.3	1.8	2.0	1.2	1.3	0.9	1.1	1.7	+0.6
Adderall k,n,o																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	2.0	2.3	1.7	1.7	1.8	1.3	1.0	1.5	1.3	1.8	2.5	2.7	+0.2
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	5.7	5.3	4.6	4.5	4.4	4.6	5.2	4.2	4.0	4.1	3.1	2.9	-0.2
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	5.4	6.5	6.5	7.6	7.4	6.8	7.5	6.2	5.5	4.6	3.9	4.4	+0.5

(Entries are percentages.)

Methamphetamine ^{n,o}	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	2003	2004	2005	2006	<u>2007</u>	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2019 ^{kk}	2020	2019– 2020 <u>change</u>
8th Grade	_	_	_	_	_	_	_	_	3.2	2.5	2.8	2.2	2.5	1.5	1.8	1.8	1.1	1.2	1.0	1.2	0.8	1.0	1.0	0.6	0.5	0.4	0.5	0.4	0.5	0.5	0.0
10th Grade 12th Grade	_	_	_	_	_	_	_	_	4.6	4.0	3.7	3.9	3.3	3.0	2.9	1.8	1.6	1.5	1.6	1.6	1.4	1.0	1.0	0.8	8.0	0.4	0.4	0.4	0.5	0.3	-0.2
12th Grade	_	_	_	_	_	_	_	_	4.7	4.3	3.9	3.6	3.2	3.4	2.5	2.5	1.7	1.2	1.2	1.0	1.4	1.1	0.9	1.0	0.6	0.6	0.6	0.5	0.5	1.4	0.9
Crystal Methamphetam	ine (Ice	e)°																													
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	1.4	1.3	1.7	1.8	2.4	2.8	2.3	3.0	1.9	2.2	2.5	3.0	2.0	2.1	2.3	1.9	1.6	1.1	0.9	0.9	1.2	8.0	1.1	8.0	0.5	8.0	8.0	0.6	0.6	0.0	-0.6 sss
Bath salts (synthetic stin	nulants)	n,o																													
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.0	1.0	0.5	0.4	0.9	0.5	0.9	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.6	0.9	0.9	0.7	8.0	0.4	0.5	_	_	_
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.3	0.9	0.9	1.0	8.0	0.6	0.6	_	_	_
Sedatives (Barbiturates)	k,p																														
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	3.4	2.8	3.4	4.1	4.7	4.9	5.1	5.5	5.8	6.2	5.7	6.7	6.0	6.5	7.2	6.6	6.2	5.8	5.2	4.8	4.3	4.5	4.8	4.3	3.6	3.0	2.9	2.7	2.5	2.4	0.0
Tranquilizers b,k																															
8th Grade	1.8	2.0	2.1	2.4	2.7	3.3	2.9	2.6	2.5	2.6‡	2.8	2.6	2.7	2.5	2.8	2.6	2.4	2.4	2.6	2.8	2.0	1.8	1.8	1.7	1.7	1.7	2.0	2.0	2.4	2.2	-0.2
10th Grade	3.2	3.5	3.3	3.3	4.0	4.6	4.9	5.1	5.4	5.6‡	7.3	6.3	5.3	5.1	4.8	5.2	5.3	4.6	5.0	5.1	4.5	4.3	3.7	3.9	3.9	4.1	4.1	3.9	3.4	2.6	-0.8
12th Grade	3.6	2.8	3.5	3.7	4.4	4.6	4.7	5.5	5.8	5.7‡	6.9	7.7	6.7	7.3	6.8	6.6	6.2	6.2	6.3	5.6	5.6	5.3	4.6	4.7	4.7	4.9	4.7	3.9	3.4	3.2	-0.2
Any Prescription Drug ^q																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	17.1	16.8	15.8	15.4	14.4	15.0	15.2	14.8‡	15.9	13.9	12.9	12.0	10.9	9.9	8.6	7.6	-1.1

(Entries are percentages.)

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	<u>2005</u>	2006	2007	2008	<u>2009</u>	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2019 ^{kk}	2020	2019- 2020 <u>change</u>
OTC Cough/Cold Medicines n,o																															
8th Grade																4.2	4.0	3.6	3.8	3.2	2.7	3.0	2.9	2.0	1.6	2.6	2.1	2.8	3.2	4.6	+1.4
10th Grade																5.3	5.4	5.3	6.0	5.1	5.5	4.7	4.3	3.7	3.3	3.0	3.6		2.6	3.3	+0.7
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	6.9	5.8	5.5	5.9	6.6	5.3	5.6	5.0	4.1	4.6	4.0	3.2	3.4	2.5	3.2	+0.7
Rohypnol ^r																															
8th Grade	_	_	_	_	_	1.0	0.8	0.8	0.5	0.5	0.7	0.3	0.5	0.6	0.7	0.5	0.7	0.5	0.4	0.5	0.8	0.4	0.4	0.3	0.3	0.5	0.4	0.3	0.4	§	_
10th Grade	_	_	_	_	_	1.1	1.3	1.2	1.0	8.0	1.0	0.7	0.6	0.7	0.5	0.5	0.7	0.4	0.4	0.6	0.6	0.5	0.6	0.5	0.2	0.5	0.3	0.3	0.6	§	_
12th Grade	_	_	_	_	_	1.1	1.2	1.4	1.0	8.0	0.9‡	1.6	1.3	1.6	1.2	1.1	1.0	1.3	1.0	1.5	1.3	1.5	0.9	0.7	1.0	1.1	8.0	0.7	0.5	§	_
GHB ^{n,w}																															
8th Grade	_	_	_	_	_	_	_	_	_	1.2	1.1	8.0	0.9	0.7	0.5	8.0	0.7	1.1	0.7	0.6	0.6	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	1.1	1.0	1.4	1.4	8.0	8.0	0.7	0.6	0.5	1.0	0.6	0.5	_	_	_	_	_	_	_	_	_	_
12th Grade	_	_	_	_	_	_	_	_	_	1.9	1.6	1.5	1.4	2.0	1.1	1.1	0.9	1.2	1.1	1.4	1.4	1.4	1.0	1.0	0.7	0.9	0.4	0.3	0.4	§	_
Ketamine n,x																															
8th Grade	_	_	_	_	_	_	_	_	_	1.6	1.3	1.3	1.1	0.9	0.6	0.9	1.0	1.2	1.0	1.0	8.0	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	2.1	2.1	2.2	1.9	1.3	1.0	1.0	8.0	1.0	1.3	1.1	1.2	_	_	_	_	_	_	_	_	_	_
12th Grade	_	_	_	_	_	_	_	_	_	2.5	2.5	2.6	2.1	1.9	1.6	1.4	1.3	1.5	1.7	1.6	1.7	1.5	1.4	1.5	1.4	1.2	1.2	0.7	0.7	1.3	+0.6
Alcohol s																															
Any Use																															
8th Grade	54.0	53.7‡	45.4	46.8	45.3	46.5	45.5	43.7	43.5	43.1	41.9	38.7	37.2	36.7	33.9	33.6	31.8	32.1	30.3	29.3	26.9	23.6	22.1	20.8	21.0	17.6	18.2	18.7	19.3	20.5	+1.1
10th Grade	72.3	70.2‡	63.4	63.9	63.5	65.0	65.2	62.7	63.7	65.3	63.5	60.0	59.3	58.2	56.7	55.8	56.3	52.5	52.8	52.1	49.8	48.5	47.1	44.0	41.9	38.3	37.7	37.8	37.7	40.7	+3.0
12th Grade	77.7	76.8‡	72.7	73.0	73.7	72.5	74.8	74.3	73.8	73.2	73.3	71.5	70.1	70.6	68.6	66.5	66.4	65.5	66.2	65.2	63.5	63.5	62.0	60.2	58.2	55.6	55.7	53.3	52.1	55.3	+3.2
Been Drunk °																															
8th Grade	17.5	18.3	18.2	18.2	18.4	19.8	18.4	17.9	18.5	18.5	16.6	15.0	14.5	14.5	14.1	13.9	12.6	12.7	12.2	11.5	10.5	8.6	8.4	7.3	7.7	5.7	6.4	6.5	6.6	7.5	+0.9
10th Grade	40.1	37.0	37.8	38.0	38.5	40.1	40.7	38.3	40.9	41.6	39.9	35.4	34.7	35.1	34.2	34.5	34.4	30.0	31.2	29.9	28.8	28.2	27.1	24.6	23.4	20.5	20.4	20.9	20.2	23.1	+2.9
12th Grade	52.7	50.3	49.6	51.7	52.5	51.9	53.2	52.0	53.2	51.8	53.2	50.4	48.0	51.8	47.7	47.9	46.1	45.6	47.0	44.0	42.2	45.0	43.5	41.4	37.7	37.3	35.6	33.9	32.8	36.9	+4.1

(Entries are percentages.)

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	2002	2003	2004	2005	2006	<u>2007</u>	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018	2019 ^{kk}	2020	2019– 2020 <u>change</u>
Flavored Alcoholic																															
Beverages e,n,y																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	30.4	27.9	26.8	26.0	25.0	22.2	21.9	19.2	17.0	15.7	13.4	13.4	11.2	10.8	12.1	10.7	14.7	+4.0
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	49.7	48.5	48.8	45.9	43.4	41.5	41.0	38.3	37.8	35.6	33.2	31.4	26.1	28.3	28.8	26.8	29.6	+2.9
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	55.2	55.8	58.4	54.7	53.6	51.8	53.4	47.9	47.0	44.4	44.2	43.6	42.8	40.0	39.6	38.4	37.5	§	_
Alcoholic Beverages containing Caffeine n,c	,z																														
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	11.8	10.9	10.2	9.5	8.4	6.5	5.6	6.0	7.3	5.7	-1.7
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	22.5	19.7	16.9	14.3	12.8	10.6	9.9	9.8	8.4	8.3	-0.1
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	26.4	26.4	23.5	20.0	18.3	17.0	16.9	14.7	12.3	12.3	0.0
Tobacco using a Hookal	n ^e																														
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	17.1	18.5	18.3	21.4	22.9	19.8	13.0	10.1	7.8	5.6	§	_
Small cigars ^e																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	23.1	19.5	19.9	20.4	18.9	15.9	15.6	13.3	9.2	7.8	§	_
Dissolvable Tobacco Products ^{e,n}																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.0	1.1	1.1	0.9	0.7	0.6	0.6	1.1	0.6	-0.5
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.6	1.2	1.3	1.1	0.9	0.6	1.1	0.8	1.3	+0.5
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.5	1.6	1.9	1.1	1.4	1.1	1.4	1.3	1.1	§	_
Snus ^{e,n}																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	2.4	2.0	2.2	1.9	2.2	1.1	1.3	1.5	1.6	+0.1
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	6.9	5.2	4.5	4.0	3.0	2.6	3.1	2.3	2.2	-0.1
12th Grade																				_	7.9	7.9	7.7	5.8	5.8	5.8	4.2	4.7	2.7	§	

(Entries are percentages.)

Alth Grade	Abb	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	2003	<u>2004</u>	<u>2005</u>	2006	2007	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2019 ^{kk}	<u>2020</u>	2019– 2020 <u>change</u>
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Any Vaping ^{bb}																															
Vaging Nictione** **** **** **** *** *** ***		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_					
Vaping Nicoting** Sthi Grade		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_					
6 Figure 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	27.8	37.3	40.6	39.0	-1.0
10ln Grade 1	Vaping Nicotinebb																															
Valing Marijuand ²⁴ Sthi Grade 1. 1	8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	7.5	10.9	16.5	16.6	+0.2
Veping Marijuand** 8th Grade 6th Crade 7th Crade 7th Crade 8th Grade 8th Crade 8t	10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	15.8	24.7	30.7	30.7	-0.1
8th Grade	12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	18.8	29.7	35.3	34.5	-0.8
8th Grade	Vaning Marijuana ^{bb}																															
10th Grade		_	_	_	_	_	_	_	_		_	_		_	_	_	_		_	_	_	_	_	_	_	_	_	3.0	4.4	7.0	8 1	+1.1
Vasing Just Flavoring* Notice Series			_		_																											
8th Grade		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_					
8th Grade	hh.																															
10th Grade																																
JULLI Steroids Ku Steroids Ku		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_					
Steroids Kur Stero		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_					
8th Grade	12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	20.6	25.7	20.3	16.6	-3.7
10th Grade	JUUL ^{jj}																															
Steroids Ku Stero	8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	14.7	11.7	-2.9
Steroids ^{k,u} 8th Grade 1.0 1.1 1.0 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.0	10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	28.7	20.0	-8.7 sss
8th Grade 1.0 1.1 0.9 1.2 1.0 0.9 1.0 1.2 1.0 0.9 1.0 1.2 1.7 1.7 1.6 1.5 1.4 1.1 1.0 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.0 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	28.4	22.7	-5.6 s
8th Grade 1.0 1.1 0.9 1.2 1.0 0.9 1.0 1.2 1.7 1.7 1.6 1.5 1.4 1.1 1.0 0.9 0.8 0.9 0.8 0.9 0.8 0.5 0.7 0.6 0.6 0.6 0.6 0.5 0.5 0.6 0.6 0.6 0.8 1.1 +0.4 10th Grade 1.1 1.1 1.0 1.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Steroids ^{k,u}																															
10th Grade 1.1 1.1 1.0 1.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2		1.0	1.1	0.9	1.2	1.0	0.9	1.0	1.2	1.7	1.7	1.6	1.5	1.4	1.1	1.1	0.9	0.8	0.9	0.8	0.5	0.7	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.8	1.1	+0.4
Androstenedione be 8th Grade																																
8th Grade — — — — — — — — — — — — — — — — — — —																																
8th Grade — — — — — — — — — — — — — — — — — — —	Androstenedione bb																															
10th Grade — — — — — — — — — — — — 2.2 1.9 1.7 1.1 0.9 0.9 0.6 0.9 1.1 1.0 0.8 0.9 0.9 0.9 0.7 — — — — — —		_	_	_	_	_	_	_	_	_	_	1 1	12	1.0	0 0	0.6	1.0	0 0	n a	0.8	0 0	0.6	0.6	0.7	0.4	0.4	_	_	_	_	_	_
							_		_																							_
		_	_	_	_	_	_	_	_	_	_																0.9	0.6	0.5	0.5	8	_

(Entries are percentages.)

																															2019– 2020
	<u>1991</u>	1992	1993	1994	<u>1995</u>	<u>1996</u>	<u>1997</u>	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 ^{kk}	2020	<u>change</u>
Creatine bb																															
8th Grade	_	_	_	_	_	_	_	_	_	_	2.7	2.3	2.3	1.9	1.3	2.2	2.0	2.0	1.9	1.9	1.9	1.9	2.0	1.6	1.2	1.8	1.7	1.7	2.0	2.5	+0.5
10th Grade	_	_	_	_	_	_	_	_	_	_	7.9	7.6	5.8	5.3	5.1	6.5	6.1	5.8	6.0	6.0	7.1	6.8	5.7	6.0	6.0	7.8	6.8	6.2	5.4	4.5	-0.9
12th Grade	_	_	_	_	_	_	_	_	_	_	11.7	8.5	8.3	8.1	8.1	7.8	8.0	8.3	9.1	9.2	8.6	9.5	9.3	10.0	8.8	9.0	8.1	9.3	7.6	7.2	-0.4
Legal Use of Over-the	e-Counte	er Stin	nulants	;																											
Diet Pills ^e																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	8.8	8.4	8.0	9.3	9.8	9.3	9.8	9.6	10.2	11.1	11.8	15.1	13.0	10.7	10.0	9.4	6.7	7.2	6.1	4.3	4.9	5.5	5.3	6.4	5.1	4.5	4.0	3.5	3.1	§	_
Stay-Awake Pills ^e																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	22.2	20.4	19.1	20.7	20.3	19.0	19.7	19.0	15.7	15.0	17.3	14.9	12.5	11.8	10.4	10.0	7.6	6.3	4.8	3.2	3.9	3.8	3.2	3.5	2.7	2.5	2.5	2.4	1.8	§	_
Look-Alikes ^e																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	5.2	5.4	6.2	6.0	6.8	6.5	6.4	5.7	5.0	5.8	7.1	6.6	5.4	5.0	4.2	3.7	2.8	3.1	2.6	1.7	2.2	2.1	1.7	1.4	2.3	1.6	1.5	_	_	_	_
Previously surveyed	drugs th	nat hav	ve beei	n dropp	ped.																										
Nitrites ^e																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	0.9	0.5	0.9	1.1	1.1	1.6	1.2	1.4	0.9	0.6	0.6	1.1	0.9	8.0	0.6	0.5	0.8	0.6	0.9	_	_	_	_	_	_	_	_	_	_	_	_
Provigil k,o																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.8	1.3	1.5	_	_	_	_	_	_	_	_	_	

(Entries are percentages.)

																															2019–
	<u>1991</u>	1992	<u>1993</u>	1994	<u>1995</u>	1996	<u>1997</u>	<u>1998</u>	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	<u>2010</u>	2011	2012	2013	2014	2015	2016	2017	2018	2019 ^{kk}	2020	2020 <u>change</u>
Powdered Alcohol ^{n,o}																													2013		
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.0	0.8	0.8	1.2	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.3	8.0	1.2	1.0	_	_
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.7	1.0	1.3	1.4	_	_
Methaqualone e,k																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	0.5	0.6	0.2	8.0	0.7	1.1	1.0	1.1	1.1	0.3	8.0	0.9	0.6	8.0	0.9	8.0	0.5	0.5	0.6	0.3	0.3	0.4	_	_	_	_	_	_	_	_	_
Bidis ^{n,o}																															
8th Grade	_	_	_	_	_	_	_	_	_	3.9	2.7	2.7	2.0	1.7	1.6	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	6.4	4.9	3.1	2.8	2.1	1.6	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	_	_	_	_	_	_	_	_	_	9.2	7.0	5.9	4.0	3.6	3.3	2.3	1.7	1.9	1.5	1.4	_	_	_	_	_	_	_	_	_	_	_
Kreteks ^{n,o}																															
8th Grade	_	_	_	_	_	_	_	_	_	_	2.6	2.6	2.0	1.9	1.4	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	6.0	4.9	3.8	3.7	2.8	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	_	_	_	_	_	_	_	_	_	_	10.1	8.4	6.7	6.5	7.1	6.2	6.8	6.8	5.5	4.6	2.9	3.0	1.6	1.6	_	_	_	_	_	_	_

Source. The Monitoring the Future study, the University of Michigan.

Note: See footnotes following Table 9.

													Perc	entag	e who ເ	ısed in	last 30) days													2019–
	1001	1000	1000	1004	1005	1006	1007	1000	1000	2000	2004	2002	2002	2004	2005	2006	2007	2000	2000	2010	2011	2012	2042	2014	2015	2016	2017	2040	aa aakk	< 2020	2020
Any Illicit Drug ^a	<u>1991</u>	1992	1993	<u>1994</u>	1990	<u>1996</u>	<u>1997</u>	<u>1998</u>	1999	2000	2001	2002	2003	2004	2005	2000	2007	2008	2009	2010	2011	<u>2012</u>	2013	2014	2015	2010	2017	2010	2019**	2020	<u>change</u>
8th Grade	5.7	6.8	8.4	10.9	12 4	14 6	12 9	12 1	12 2	11.9	11 7	10.4	9.7	8.4	8.5	8.1	7.4	7.6	8.1	9.5	8.5	7.7‡	8.7	8.3	8.1	6.9	7.0	7.3	8.5	8.7	+0.2
10th Grade												20.8										18.6‡						18.3	19.8	18.2	-1.6
12th Grade																						25.2‡									-1.5
Any Illicit Drug other																															
than Marijuana ^{a,b}																															
8th Grade	3.8	4.7	5.3	5.6	6.5	6.9	6.0	5.5	5.5	5.6‡	5.5	4.7	4.7	4.1	4.1	3.8	3.6	3.8	3.5	3.5	3.4	2.6‡	3.6	3.3	3.1	2.7	2.7	3.0	3.4	3.5	+0.1
10th Grade	5.5	5.7	6.5	7.1	8.9	8.9	8.8	8.6	8.6	8.5‡	8.7	8.1	6.9	6.9	6.4	6.3	6.9	5.3	5.7	5.8	5.4	5.0‡	4.9	5.6	4.9	4.4	4.5	4.2	4.2	3.7	-0.5
12th Grade	7.1	6.3	7.9	8.8	10.0	9.5	10.7	10.7	10.4	10.4‡	11.0	11.3	10.4	10.8	10.3	9.8	9.5	9.3	8.6	8.6	8.9	8.4‡	8.2	7.7	7.6	6.9	6.3	6.0	5.2	4.8	-0.4
Any Illicit Drug																															
including Inhalants	a,c																														
8th Grade	8.8	10.0	12.0	14.3	16.1	17.5	16.0	14.9	15.1	14.4	14.0	12.6	12.1	11.2	11.2	10.9	10.1	10.4	10.6	11.7	10.5	9.5‡	10.0	9.5	9.3	7.9	8.6	8.3	9.7	10.2	+0.5
10th Grade	13.1	12.6	15.5	20.0	21.6	24.5	24.1	22.5	23.1	23.6	23.6	21.7	20.5	19.3	18.4	17.7	18.1	16.8	18.8	19.4	20.1	19.3‡	20.0	19.1	17.1	16.4	18.0	18.7	20.4	18.7	-1.7
12th Grade	17.8	15.5	19.3	23.0	24.8	25.5	26.9	26.6	26.4	26.4	26.5	25.9	24.6	23.3	24.2	22.1	22.8	22.8	24.1	24.5	26.2	25.2‡	26.5	24.3	24.7	24.6	25.7	25.0	24.1	23.8	-0.3
Marijuana/Hashish																															
8th Grade	3.2	3.7	5.1	7.8	9.1	11.3	10.2	9.7	9.7	9.1	9.2	8.3	7.5	6.4	6.6	6.5	5.7	5.8	6.5	8.0	7.2	6.5	7.0	6.5	6.5	5.4	5.5	5.6	6.6	6.5	-0.2
10th Grade	8.7	8.1	10.9	15.8	17.2	20.4	20.5	18.7	19.4	19.7	19.8	17.8	17.0	15.9	15.2	14.2	14.2	13.8	15.9	16.7	17.6	17.0	18.0	16.6	14.8	14.0	15.7	16.7	18.4	16.6	-1.8
12th Grade	13.8	11.9	15.5	19.0	21.2	21.9	23.7	22.8	23.1	21.6	22.4	21.5	21.2	19.9	19.8	18.3	18.8	19.4	20.6	21.4	22.6	22.9	22.7	21.2	21.3	22.5	22.9	22.2	22.3	21.1	-1.2
Inhalants ^{c,d}																															
8th Grade	4.4	4.7	5.4	5.6	6.1	5.8	5.6	4.8	5.0	4.5	4.0	3.8	4.1	4.5	4.2	4.1	3.9	4.1	3.8	3.6	3.2	2.7	2.3	2.2	2.0	1.8	2.1	1.8	2.1	2.9	+0.8
10th Grade	2.7	2.7	3.3	3.6	3.5	3.3	3.0	2.9	2.6	2.6	2.4	2.4	2.2	2.4	2.2	2.3	2.5	2.1	2.2	2.0	1.7	1.4	1.3	1.1	1.2	1.0	1.1	1.0	1.1	1.2	+0.1
12th Grade	2.4	2.3	2.5	2.7	3.2	2.5	2.5	2.3	2.0	2.2	1.7	1.5	1.5	1.5	2.0	1.5	1.2	1.4	1.2	1.4	1.0	0.9	1.0	0.7	0.7	8.0	8.0	0.7	0.9	0.7	-0.2
Hallucinogens b,f																															
8th Grade	8.0	1.1	1.2	1.3	1.7	1.9	1.8	1.4	1.3	1.2‡	1.6	1.2	1.2	1.0	1.1	0.9	1.0	0.9	0.9	1.0	1.0	0.6	8.0	0.5	0.6	0.6	0.5	0.6	0.6	0.9	+0.3
10th Grade	1.6	1.8	1.9	2.4	3.3	2.8	3.3	3.2	2.9	2.3‡	2.1	1.6	1.5	1.6	1.5	1.5	1.7	1.3	1.4	1.6	1.4	1.2	1.1	1.2	0.9	0.9	1.1	8.0	1.3	1.4	+0.1
12th Grade	2.2	2.1	2.7	3.1	4.4	3.5	3.9	3.8	3.5	2.6‡	3.3	2.3	1.8	1.9	1.9	1.5	1.7	2.2	1.6	1.9	1.6	1.6	1.4	1.5	1.6	1.4	1.6	1.4	1.8	1.8	-0.1

													Perc	entage	who u	sed in	last 30	days													2019–
	1001	1992	1003	1004	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 ^{kk}	2020	2020 change
LSD ^b	1001	1002	1000	1004	1000	1000	1001	1000	1000	2000	2001	2002	2000	2004	2000	2000	2001	2000	2000	2010	2011	2012	2010	2014	2010	2010	2011	2010	2019	2020	onungo
8th Grade	0.6	0.9	1.0	1.1	1.4	1.5	1.5	1.1	1.1	1.0	1.0	0.7	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.6	0.5	0.3	0.5	0.3	0.4	0.4	0.3	0.4	0.4	0.6	+0.2
10th Grade	1.5	1.6	1.6	2.0	3.0	2.4	2.8	2.7	2.3	1.6	1.5	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.5	0.7	0.7	0.5	0.6	0.6	0.6	0.7	0.8	0.5	1.1	1.0	0.0
12th Grade	1.9	2.0	2.4	2.6	4.0	2.5	3.1	3.2	2.7	1.6	2.3	0.7	0.6	0.7	0.7	0.6	0.6	1.1	0.5	8.0	8.0	8.0	8.0	1.0	1.1	1.0	1.2	1.0	1.4	1.4	0.0
Hallucinogens other than LSD ^b																															
8th Grade	0.3	0.4	0.5	0.7	8.0	0.9	0.7	0.7	0.6	0.6‡	1.1	1.0	1.0	8.0	0.9	0.7	0.7	0.7	0.7	8.0	0.7	0.5	0.5	0.4	0.3	0.3	0.3	0.4	0.4	0.6	+0.3
10th Grade	0.4	0.5	0.7	1.0	1.0	1.0	1.2	1.4	1.2	1.2‡	1.4	1.4	1.2	1.4	1.3	1.3	1.4	1.0	1.1	1.2	1.1	0.9	8.0	8.0	0.6	0.5	0.6	0.5	0.8	0.9	+0.2
12th Grade	0.7	0.5	8.0	1.2	1.3	1.6	1.7	1.6	1.6	1.7‡	1.9	2.0	1.5	1.7	1.6	1.3	1.4	1.6	1.4	1.5	1.2	1.3	1.0	1.0	0.9	0.7	1.0	0.9	1.0	0.7	-0.3
MDMA (Ecstasy, M	olly) ^g																														
8th Grade		_	_	_	_	1.0	1.0	0.9	8.0	1.4	1.8	1.4	0.7	8.0	0.6	0.7	0.6	8.0	0.6	1.1	0.6	0.5	0.5‡	0.7	0.5	0.3	0.4	0.4	0.5	0.3	-0.2
10th Grade		_	_	_	_	1.8	1.3	1.3	1.8	2.6	2.6	1.8	1.1	8.0	1.0	1.2	1.2	1.1	1.3	1.9	1.6	1.0	1.2‡	1.1	0.9	0.5	0.5	0.4	0.7	0.5	-0.1
12th Grade		_	_	_	_	2.0	1.6	1.5	2.5	3.6	2.8	2.4	1.3	1.2	1.0	1.3	1.6	1.8	1.8	1.4	2.3	0.9	1.5‡	1.5	1.1	0.9	0.9	0.5	0.7	8.0	0.0
Cocaine																															
8th Grade	0.5	0.7	0.7	1.0	1.2	1.3	1.1	1.4	1.3	1.2	1.2	1.1	0.9	0.9	1.0	1.0	0.9	8.0	0.8	0.6	0.8	0.5	0.5	0.5	0.5	0.3	0.4	0.3	0.3	0.1	-0.2
10th Grade	0.7	0.7	0.9	1.2	1.7	1.7	2.0	2.1	1.8	1.8	1.3	1.6	1.3	1.7	1.5	1.5	1.3	1.2	0.9	0.9	0.7	0.8	0.8	0.6	0.8	0.4	0.5	0.6	0.6	0.4	-0.3 s
12th Grade	1.4	1.3	1.3	1.5	1.8	2.0	2.3	2.4	2.6	2.1	2.1	2.3	2.1	2.3	2.3	2.5	2.0	1.9	1.3	1.3	1.1	1.1	1.1	1.0	1.1	0.9	1.2	1.1	1.0	8.0	-0.2
Crack																															
8th Grade	0.3	0.5	0.4	0.7	0.7	8.0	0.7	0.9	0.8	0.8	0.8	0.8	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.5	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.1	-0.1
10th Grade	0.3	0.4	0.5	0.6	0.9	8.0	0.9	1.1	0.8	0.9	0.7	1.0	0.7	0.8	0.7	0.7	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.3	0.3	0.3	-0.1
12th Grade	0.7	0.6	0.7	8.0	1.0	1.0	0.9	1.0	1.1	1.0	1.1	1.2	0.9	1.0	1.0	0.9	0.9	8.0	0.6	0.7	0.5	0.6	0.6	0.7	0.6	0.5	0.6	0.5	0.7	0.4	-0.3
Cocaine other than	Crack	h																													
8th Grade	0.5	0.5	0.6	0.9	1.0	1.0	0.8	1.0	1.1	0.9	0.9	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.5	0.6	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.2	0.1	-0.1
10th Grade	0.6	0.6	0.7	1.0	1.4	1.3	1.6	1.8	1.6	1.6	1.2	1.3	1.1	1.5	1.3	1.3	1.1	1.0	0.8	0.7	0.6	0.7	0.7	0.5	0.7	0.3	0.4	0.5	0.6	0.3	-0.3 s
12th Grade	1.2	1.0	1.2	1.3	1.3	1.6	2.0	2.0	2.5	1.7	1.8	1.9	1.8	2.2	2.0	2.4	1.7	1.7	1.1	1.1	1.0	1.0	0.9	0.9	1.1	0.6	1.1	1.0	0.9	1.0	+0.1

													Perc	entage	who u	sed in	last 30	days													2019–
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 ^{kk}	2020	2020 change
Heroin ^{I,j}																															
8th Grade	0.3	0.4	0.4	0.6	0.6	0.7	0.6	0.6	0.6	0.5	0.6	0.5	0.4	0.5	0.5	0.3	0.4	0.4	0.4	0.4	0.4	0.2	0.3	0.3	0.1	0.2	0.2	0.1	0.1	0.2	+0.1
10th Grade	0.2	0.2	0.3	0.4	0.6	0.5	0.6	0.7	0.7	0.5	0.3	0.5	0.3	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.2	0.2	0.1	0.1	0.2	0.1	-0.1
12th Grade	0.2	0.3	0.2	0.3	0.6	0.5	0.5	0.5	0.5	0.7	0.4	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.2	0.3	0.2	0.3	0.3	0.0
With a Needle ^j																															
8th Grade	_	_	_	_	0.4	0.5	0.4	0.5	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.2	+0.1
10th Grade	_	_	_	_	0.3	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.1	0.2	0.1	0.1	0.2	0.1	0.0
12th Grade	_	_	_	_	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.1	0.4	0.4	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.1	-0.1
Without a Needle ^j																															
8th Grade	_	_	_	_	0.3	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.2	+0.1
10th Grade	_	_	_	_	0.3	0.3	0.4	0.5	0.5	0.4	0.2	0.4	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.1	-0.1
12th Grade	_	-	_	_	0.6	0.4	0.6	0.4	0.4	0.7	0.3	0.5	0.4	0.3	0.5	0.3	0.4	0.2	0.3	0.4	0.4	0.2	0.2	0.4	0.3	0.1	0.2	0.1	0.2	0.1	0.0
Narcotics other than	Heroin	k,I																													
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	1.1	1.2	1.3	1.5	1.8	2.0	2.3	2.4	2.6	2.9	3.0‡	4.0	4.1	4.3	3.9	3.8	3.8	3.8	4.1	3.6	3.6	3.0	2.8	2.2	2.1	1.7	1.6	1.1	1.0	0.7	-0.3
Amphetamines k,m																															
8th Grade	2.6	3.3	3.6	3.6	4.2	4.6	3.8	3.3	3.4	3.4	3.2	2.8	2.7	2.3	2.3	2.1	2.0	2.2	1.9	1.8	1.8	1.3‡	2.3	2.1	1.9	1.7	1.7	1.8	2.2	2.2	+0.1
10th Grade	3.3	3.6	4.3	4.5	5.3	5.5	5.1	5.1	5.0	5.4	5.6	5.2	4.3	4.0	3.7	3.5	4.0	2.8	3.3	3.3	3.1	2.8‡	3.3	3.7	3.1	2.7	2.5	2.4	2.4	1.9	-0.5
12th Grade	3.2	2.8	3.7	4.0	4.0	4.1	4.8	4.6	4.5	5.0	5.6	5.5	5.0	4.6	3.9	3.7	3.7	2.9	3.0	3.3	3.7	3.3‡	4.2	3.8	3.2	3.0	2.6	2.4	2.0	1.7	-0.2
Methamphetamine	n,o																														
8th Grade	_	_	_	_	_	_	_	_	1.1	0.8	1.3	1.1	1.2	0.6	0.7	0.6	0.6	0.7	0.5	0.7	0.4	0.5	0.4	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.0
10th Grade	_	_	_	_	_		_	_	1.8	2.0	1.5	1.8	1.4	1.3	1.1	0.7	0.4	0.7	0.6	0.7	0.5	0.6	0.4	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.0
12th Grade	_	_	_	_	_	_	_	_	1.7	1.9	1.5	1.7	1.7	1.4	0.9	0.9	0.6	0.6	0.5	0.5	0.6	0.5	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.8	+0.6

													Perd	entage	e who ι	ısed in	last 30) days													2019–
	1991	<u>1992</u>	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 ^{kk}	2020	2020 change
Crystal Methamph																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	0.6	0.5	0.6	0.7	1.1	1.1	8.0	1.2	8.0	1.0	1.1	1.2	8.0	8.0	0.9	0.7	0.6	0.6	0.5	0.6	0.6	0.4	8.0	0.4	0.3	0.4	0.5	0.4	0.4	0.0	-0.4 ss
Sedatives (Barbitur	ates) ^{k,p}																														
8th Grade	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	1.4	1.1	1.3	1.7	2.2	2.1	2.1	2.6	2.6	3.0	2.8	3.2	2.9‡	2.9	3.3	3.0	2.7	2.8	2.5	2.2	1.8	2.0	2.2	2.0	1.7	1.5	1.4	1.2	1.2	1.2	+0.1
Tranquilizers b,k																															
8th Grade	0.8	0.8	0.9	1.1	1.2	1.5	1.2	1.2	1.1	1.4‡	1.2	1.2	1.4	1.2	1.3	1.3	1.1	1.2	1.2	1.2	1.0	0.8	0.9	0.8	8.0	0.8	0.7	0.9	1.2	1.1	0.0
10th Grade	1.2	1.5	1.1	1.5	1.7	1.7	2.2	2.2	2.2	2.5‡	2.9	2.9	2.4	2.3	2.3	2.4	2.6	1.9	2.0	2.2	1.9	1.7	1.6	1.6	1.7	1.5	1.5	1.3	1.3	0.7	-0.5 ss
12th Grade	1.4	1.0	1.2	1.4	1.8	2.0	1.8	2.4	2.5	2.6‡	2.9	3.3	2.8	3.1	2.9	2.7	2.6	2.6	2.7	2.5	2.3	2.1	2.0	2.1	2.0	1.9	2.0	1.3	1.3	1.0	-0.2
Any Prescription Dr	ug ^q																														
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	_	-	_	_	_	-	_	-	_	_	_	_	_	_	8.6	8.1	7.8	7.2	7.3	6.9	7.2	7.0‡	7.1	6.4	5.9	5.4	4.9	4.2	3.6	3.3	-0.3
Rohypnol ^r																															
8th Grade	_	_	_	_	_	0.5	0.3	0.4	0.3	0.3	0.4	0.2	0.1	0.2	0.2	0.4	0.3	0.1	0.2	0.2	0.6	0.1	0.1	0.2	0.1	0.2	0.1	0.3	0.4	§	_
10th Grade	_	_	_	_	_	0.5	0.5	0.4	0.5	0.4	0.2	0.4	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.4	0.1	0.3	0.0	0.1	0.2	§	_
12th Grade	_	_	_	_	_	0.5	0.3	0.3	0.3	0.4	0.3	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Alcohol s																															
Any Use																															
8th Grade	25.1	26.1‡	24.3	25.5	24.6	26.2	24.5	23.0	24.0	22.4	21.5	19.6	19.7	18.6	17.1	17.2	15.9	15.9	14.9	13.8	12.7	11.0	10.2	9.0	9.7	7.3	8.0	8.2	7.9	9.9	+1.9
10th Grade	42.8	39.9‡	38.2	39.2	38.8	40.4	40.1	38.8	40.0	41.0	39.0	35.4	35.4	35.2	33.2	33.8	33.4	28.8	30.4	28.9	27.2	27.6	25.7	23.5	21.5	19.9	19.7	18.6	18.4	20.3	+1.9
12th Grade	54.0	51.3‡	48.6	50.1	51.3	50.8	52.7	52.0	51.0	50.0	49.8	48.6	47.5	48.0	47.0	45.3	44.4	43.1	43.5	41.2	40.0	41.5	39.2	37.4	35.3	33.2	33.2	30.2	29.3	33.6	+4.3

													Perc	entage	e who ι	ısed in	last 30	days													2019–
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	<u>2017</u>	2018	2010 ^{kk}	2020	2020 change
Been Drunk °	<u></u>	1002			1000		1001	1000	1000											2010	2011		2010			20.0	2011	2010	2013		onungo
8th Grade	7.6	7.5	7.8	8.7	8.3	9.6	8.2	8.4	9.4	8.3	7.7	6.7	6.7	6.2	6.0	6.2	5.5	5.4	5.4	5.0	4.4	3.6	3.5	2.7	3.1	1.8	2.2	2.1	2.6	3.4	+0.7
10th Grade	20.5	18.1	19.8	20.3	20.8	21.3	22.4	21.1	22.5	23.5	21.9	18.3	18.2	18.5	17.6	18.8	18.1	14.4	15.5	14.7	13.7	14.5	12.8	11.2	10.3	9.0	8.9	8.4	8.8	9.3	+0.5
12th Grade	31.6	29.9	28.9	30.8	33.2	31.3	34.2	32.9	32.9	32.3	32.7	30.3	30.9	32.5	30.2	30.0	28.7	27.6	27.4	26.8	25.0	28.1	26.0	23.5	20.6	20.4	19.1	17.5	17.5	19.8	+2.3
Flavored Alcoholic Beverages ^{e,n}																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	14.6	12.9	13.1	12.2	10.2	9.5	9.4	8.6	7.6	6.3	5.7	5.5	4.0	4.4	4.9	4.5	6.6	+2.1
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	25.1	23.1	24.7	21.8	20.2	19.0	19.4	15.8	16.3	15.5	14.0	12.8	11.0	12.9	11.8	11.1	12.5	+1.3
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	31.1	30.5	29.3	29.1	27.4	27.4	24.1	23.1	21.8	21.0	19.9	20.8	18.3	20.2	18.1	18.5	§	_
Cigarettes																															
Any Use																															
8th Grade	14.3	15.5	16.7	18.6	19.1	21.0	19.4	19.1	17.5	14.6	12.2	10.7	10.2	9.2	9.3	8.7	7.1	6.8	6.5	7.1	6.1	4.9	4.5	4.0	3.6	2.6	1.9	2.2	2.3	2.2	-0.1
10th Grade	20.8	21.5	24.7	25.4	27.9	30.4	29.8	27.6	25.7	23.9	21.3	17.7	16.7	16.0	14.9	14.5	14.0	12.3	13.1	13.6	11.8	10.8	9.1	7.2	6.3	4.9	5.0	4.2	3.4	3.2	-0.2
12th Grade	28.3	27.8	29.9	31.2	33.5	34.0	36.5	35.1	34.6	31.4	29.5	26.7	24.4	25.0	23.2	21.6	21.6	20.4	20.1	19.2	18.7	17.1	16.3	13.6	11.4	10.5	9.7	7.6	5.7	7.5	+1.8
Smokeless Tobacco	t																														
8th Grade	6.9	7.0	6.6	7.7	7.1	7.1	5.5	4.8	4.5	4.2	4.0	3.3	4.1	4.1	3.3	3.7	3.2	3.5	3.7	4.1	3.5	2.8	2.8	3.0	3.2	2.5	1.7	2.1	2.5	2.3	-0.2
10th Grade	10.0	9.6	10.4	10.5	9.7	8.6	8.9	7.5	6.5	6.1	6.9	6.1	5.3	4.9	5.6	5.7	6.1	5.0	6.5	7.5	6.6	6.4	6.4	5.3	4.9	3.5	3.8	3.9	3.2	3.5	+0.3
12th Grade	_	11.4	10.7	11.1	12.2	9.8	9.7	8.8	8.4	7.6	7.8	6.5	6.7	6.7	7.6	6.1	6.6	6.5	8.4	8.5	8.3	7.9	8.1	8.4	6.1	6.6	4.9	4.2	3.5	§	_
Large Cigars ⁱⁱ																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.9	2.4	1.5	1.5	1.7	1.3	1.5	+0.2
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.9	3.4	2.3	2.6	2.8	2.1	1.2	-0.9
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	-	_	_	-	_	_	_	_	6.4	7.0	6.5	5.6	5.2	5.3	§	_
Flavored Little Cigar	s ⁱⁱ																														
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	4.1	4.1	2.8	2.6	2.6	2.2	2.3	+0.1
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	6.9	6.1	4.9	4.0	5.3	3.7	3.0	-0.8
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	11.9	11.4	9.5	10.1	8.9	7.7	§	

													Perc	entage	who u	sed in	last 30	days													2019–
	1991	1992	1993	<u>1994</u>	1995	1996	1997	<u>1998</u>	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 ^{kk}	2020	2020 change
Regular Little Cigars		1002	1000	<u></u>	1000		1001	1000	1000											20.10		2012				20.0		2010	2019		<u>onango</u>
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	2.5	3.3	1.9	1.6	1.6	1.6	1.4	-0.2
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	4.4	3.8	3.0	3.0	3.1	2.6	2.4	-0.2
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	7.0	7.8	6.1	6.6	5.8	4.9	§	_
Any Vaping bb,cc																															
8th Grade	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	8.0	6.2‡	6.6	10.4	12.2	12.5	+0.3
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	14.2	11.0‡	13.1	21.7	25.0	23.5	-1.5
12th Grade	-	_	_	_	_	_	-	-	_	_	_	_	_	_	_	_	-	_	-	-	_	_	_	_	16.3	12.5‡	16.6	26.7	30.9	28.2	-2.7
Vaping Nicotine bb																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.5	6.1	9.6	10.5	+0.9
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.2	16.1	19.9	19.3	-0.7
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_			25.5	24.7	-0.8
Vaping Marijuana ^{bb}																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.6	2.6	3.9	4.2	+0.3
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	4.3	7.0	12.6	11.3	-1.3
12th Grade	-	_	_	_	_	_	-	-	_	_	_	_	_	_	_	_	-	_	-	-	_	_	_	_	_	-	4.9	7.5	14.0	12.2	-1.8
Vaping Just Flavoring	bb																														
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	5.3	8.1	7.7	6.8	-0.9
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	9.2	13.1	10.5	10.4	-0.2
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	9.7	13.5	10.7	8.4	-2.3
JUUL ^{jj}																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.5	6.3	-2.2
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	18.5		-6.3 ss
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		12.9	-7.9 sss
Tobacco Using a Hoo	kah ⁱⁱ																														
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	2.8	2.5	1.6	1.3	0.7	-0.6
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	4.0	3.0	2.4	2.4	1.0	-1.4 s
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	6.1	5.0	4.4	4.0	§	_

													Perc	entage	who u	ısed in	last 30	days													2019–
	<u>1991</u>	1992	<u>1993</u>	1994	<u>1995</u>	<u>1996</u>	1997	<u>1998</u>	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 ^{kl}	· <u>2020</u>	2020 change
Any Nicotine Use e,gg																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	12.3	11.2	-1.1
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	24.0	18.8	-5.2 s
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	25.6	32.5	33.6	§	_
Any Nicotine Use other than Vaping ^e	,hh																														
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	5.9	4.7	-1.2
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.3	6.6	-1.7
12th Grade	-	-	_	_	_	_	_	_	_	_	-	-	_	-	_	-	_	_	-	_	_	_	_	_	-	_	20.6	18.5	15.7	§	_
Steroids k,u																															
8th Grade	0.4	0.5	0.5	0.5	0.6	0.4	0.5	0.5	0.7	8.0	0.7	0.8	0.7	0.5	0.5	0.5	0.4	0.5	0.4	0.3	0.4	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.0
10th Grade	0.6	0.6	0.5	0.6	0.6	0.5	0.7	0.6	0.9	1.0	0.9	1.0	0.8	0.8	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.5	0.0
12th Grade	8.0	0.6	0.7	0.9	0.7	0.7	1.0	1.1	0.9	8.0	1.3	1.4	1.3	1.6	0.9	1.1	1.0	1.0	1.0	1.1	0.7	0.9	1.0	0.9	1.0	0.7	8.0	8.0	0.7	1.2	+0.4
Legal Use of Over-t	he-Coı	unter S	Stimula	nts																											
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	3.7	4.0	3.8	4.2	3.8	4.3	4.6	4.8	5.4	5.8	6.3	9.2	6.5	5.6	4.4	5.3	3.8	3.7	2.6	2.1	2.4	3.4	2.4	3.6	2.1	2.1	2.4	1.9	1.9	§	_
Stay-Awake Pills ^e																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	6.8	7.2	7.0	6.3	7.3	7.5	7.8	7.4	6.8	7.3	7.2	5.8	5.0	4.5	4.2	4.2	3.3	2.6	2.3	1.6	2.2	1.9	1.5	1.7	1.2	1.7	1.6	1.2	1.1	§	_
Look-Alikes ^e																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_		_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_		_		_	_
12th Grade	2.1	2.4	2.7	2.4	3.0	3.1	2.7	2.7	2.4	2.6	3.3	2.8	2.4	2.5	1.9	2.3	1.1	1.6	1.0	8.0	1.2	0.8	0.7	0.7	0.9	0.9	0.8	_	_	_	_

													Perc	entage	who u	ısed in	last 30	days													2019–
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 ^{kk}	2020	2020 <u>change</u>
Legal Use of Presc																															
Stimulant-Type ^{n,dd,}																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.9	3.5	3.1	3.5	3.7	3.4	3.3	3.5	3.4	3.2	3.6	3.7	3.4	3.7	2.8	2.0	-0.8
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.4	2.8	2.8	2.9	3.3	3.1	2.8	3.8	3.7	3.4	4.2	3.0	3.0	3.9	2.9	2.5	-0.4
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	2.9	2.3	2.6	2.9	2.9	3.0	3.3	3.8	4.4	3.8	4.0	3.9	3.4	3.5	3.2	3.1	-0.2
Non-Stimulant-Type	e ^{n,dd,ee}																														
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	2.2	1.9	1.4	1.6	1.2	1.4	1.5	1.2	1.4	1.2	1.2	2.0	1.1	1.2	1.4	1.4	0.0
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	2.3	2.3	1.6	1.7	1.9	1.6	1.3	1.3	1.3	1.4	1.7	1.2	1.0	1.4	1.8	1.8	0.0
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.6	1.6	1.7	1.9	1.5	2.3	1.9	1.8	1.8	2.2	1.5	2.1	2.5	2.6	2.3	1.7	-0.6
Either Type n,dd,ee																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	6.1	5.2	4.5	5.1	4.9	4.7	4.9	4.7	5.0	4.6	4.9	5.6	4.7	5.2	3.8	2.7	-1.1
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	5.6	4.8	4.2	4.5	5.0	4.6	4.2	5.1	5.0	4.8	5.8	4.3	4.0	5.1	4.4	4.0	-0.3
12th Grade	_	_	_	_	-	_	_	_	_	_	_	_	-	_	4.5	3.7	4.1	4.4	4.3	5.2	5.1	5.5	6.0	5.5	5.3	5.6	5.7	5.9	5.0	4.2	-0.7
Previously surveye	d drug	s that I	have b	een dı	opped																										
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	0.4	0.3	0.6	0.4	0.4	0.7	0.7	1.0	0.4	0.3	0.5	0.6	0.7	0.7	0.5	0.3	0.5	0.3	0.6	_	_	_	_	_	_	_	_	_	_	_	_
PCP ^e																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	0.5	0.6	1.0	0.7	0.6	1.3	0.7	1.0	8.0	0.9	0.5	0.4	0.6	0.4	0.7	0.4	0.5	0.6	0.5	8.0	8.0	0.5	0.4	_	_	_	_	_	_	_	_
Methaqualone ^{e,k}																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	0.2	0.4	0.1	0.4	0.4	0.6	0.3	0.6	0.4	0.2	0.5	0.3	0.4	0.5	0.5	0.4	0.4	0.2	0.3	0.2	0.2	0.3									

Source. The Monitoring the Future study, the University of Michigan.

Note: See footnotes following Table 9.

(Entries are percentages.)

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	2003	<u>2004</u>	<u>2005</u>	<u>2006</u>	2007	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2019 ^{kk}	<u>2020</u>	2019– 2020 <u>change</u>
Marijuana/Hashish Used Daily in Past 30	Dovo as	1																													
8th Grade			0.4	0.7	0.0	4.5	4.4	4.4	4.4	4.0	4.0	4.0	4.0	0.0	4.0	4.0	0.0	0.0	4.0	4.0	4.0	4.4	4.4	4.0	4.4	0.7	0.0	0.7	4.0	4.4	0.0
10th Grade	0.2	0.2	0.4	0.7	0.8 2.8	1.5	1.1 3.7	1.1	1.4	1.3	1.3	1.2	1.0	0.8	1.0	1.0	0.8	0.9	1.0	1.2	1.3	1.1	1.1	1.0 3.4	1.1 3.0	0.7	0.8	0.7 3.4	1.3 4.8		-0.2
12th Grade	2.0	0.8 1.9	1.0	2.2 3.6	4.6	3.5 4.9		3.6	3.8 6.0	3.8 6.0	4.5 5.8	3.9 6.0	3.6 6.0	3.2	3.1 5.0	2.8 5.0	2.8 5.1	2.7 5.4	2.8 5.2	3.3 6.1	3.6 6.6	3.5 6.5	4.0 6.5	5.8	6.0	2.5 6.0	2.9 5.9			4.4	-0.3 +0.5
12th Grade	2.0	1.9	2.4	3.0	4.6	4.9	5.8	5.6	6.0	6.0	5.8	6.0	6.0	5.6	5.0	5.0	5.1	5.4	5.2	0.1	0.0	0.5	0.5	5.8	6.0	6.0	5.9	5.8	6.4	6.9	+0.5
Ever Used Daily for M	lonth or	More i	n Lifeti	me ^e																											
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_
12th Grade	9.0	8.4	9.6	11.3	12.1	15.7	18.8	18.0	17.9	17.0	18.0	15.5	16.4	17.8	14.5	16.6	15.7	15.1	14.9	15.5	17.4	18.2	15.8	13.7	12.4	14.3	13.9	12.3	14.9	§	_
Alcohol ^{s,aa} Any Daily Use																															
8th Grade	0.5	0.6‡	1.0	1.0	0.7	1.0	8.0	0.9	1.0	8.0	0.9	0.7	8.0	0.6	0.5	0.5	0.6	0.7	0.5	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.4	+0.2
10th Grade	1.3	1.2‡	1.8	1.7	1.7	1.6	1.7	1.9	1.9	1.8	1.9	1.8	1.5	1.3	1.3	1.4	1.4	1.0	1.1	1.1	8.0	1.0	0.9	8.0	0.5	0.5	0.6	0.5	0.6	1.0	+0.3
12th Grade	3.6	3.4‡	3.4	2.9	3.5	3.7	3.9	3.9	3.4	2.9	3.6	3.5	3.2	2.8	3.1	3.0	3.1	2.8	2.5	2.7	2.1	2.5	2.2	1.9	1.9	1.3	1.6	1.2	1.7	2.7	+1.0
Been Drunk Daily ^{o,aa}																															
8th Grade	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.2	+0.1
10th Grade	0.2	0.3	0.4	0.4	0.6	0.4	0.6	0.6	0.7	0.5	0.6	0.5	0.5	0.4	0.4	0.5	0.5	0.3	0.4	0.3	0.2	0.4	0.3	0.3	0.1	0.1	0.2	0.2	0.2	0.3	+0.1
12th Grade	0.9	8.0	0.9	1.2	1.3	1.6	2.0	1.5	1.9	1.7	1.4	1.2	1.6	1.8	1.5	1.6	1.3	1.4	1.1	1.6	1.3	1.5	1.3	1.1	8.0	8.0	1.1	0.7	1.1	8.0	-0.3
5+ Drinks in a Row in Last 2 Weeks																															
8th Grade	10.9	11.3	11.3	12.1	12.3	13.3	12.3	11.5	13.1	11.7	11.0	10.3	9.8	9.4	8.4	8.7	8.3	8.1	7.8	7.2	6.4	5.1	5.1	4.1	4.6	3.4	3.7	3.7	3.8	4.5	+0.7
10th Grade	21.0	19.1	21.0	21.9	22.0	22.8	23.1	22.4	23.5	24.1	22.8	20.3	20.0	19.9	19.0	19.9	19.6	16.0	17.5	16.3	14.7	15.6	13.7	12.6	10.9	9.7	9.8	8.7	8.5	9.6	+1.1
12th Grade	29.8	27.9	27.5	28.2	29.8	30.2	31.3	31.5	30.8	30.0	29.7	28.6	27.9	29.2	27.1	25.4	25.9	24.6	25.2	23.2	21.6	23.7	22.1	19.4	17.2	15.5	16.6	13.8	14.4	16.8	+2.4

(Entries are percentages.)

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2019 ^{kk}	<u>2020</u>	2019– 2020 <u>change</u>
Cigarettes																															
Any Daily Use																															
8th Grade	7.2	7.0	8.3	8.8	9.3	10.4	9.0	8.8	8.1	7.4	5.5	5.1	4.5	4.4	4.0	4.0	3.0	3.1	2.7	2.9	2.4	1.9	1.8	1.4	1.3	0.9	0.6	8.0	8.0	8.0	0.0
10th Grade	12.6	12.3	14.2	14.6	16.3	18.3	18.0	15.8	15.9	14.0	12.2	10.1	8.9	8.3	7.5	7.6	7.2	5.9	6.3	6.6	5.5	5.0	4.4	3.2	3.0	1.9	2.2	1.8	1.3	1.2	-0.2
12th Grade	18.5	17.2	19.0	19.4	21.6	22.2	24.6	22.4	23.1	20.6	19.0	16.9	15.8	15.6	13.6	12.2	12.3	11.4	11.2	10.7	10.3	9.3	8.5	6.7	5.5	4.8	4.2	3.6	2.4	3.1	+0.7
1/2 Pack+/Day																															
8th Grade	3.1	2.9	3.5	3.6	3.4	4.3	3.5	3.6	3.3	2.8	2.3	2.1	1.8	1.7	1.7	1.5	1.1	1.2	1.0	0.9	0.7	0.6	0.7	0.5	0.4	0.3	0.2	0.3	0.2	0.1	-0.2 s
10th Grade	6.5	6.0	7.0	7.6	8.3	9.4	8.6	7.9	7.6	6.2	5.5	4.4	4.1	3.3	3.1	3.3	2.7	2.0	2.4	2.4	1.9	1.5	1.5	1.2	1.0	0.6	0.7	0.7	0.5	0.6	0.0
12th Grade	10.7	10.0	10.9	11.2	12.4	13.0	14.3	12.6	13.2	11.3	10.3	9.1	8.4	8.0	6.9	5.9	5.7	5.4	5.0	4.7	4.3	4.0	3.4	2.6	2.1	1.8	1.7	1.5	0.9	1.4	+0.4
Vaping Nicotine bb																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	2.0	2.0	0.0
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	6.8	5.6	-1.2
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	11.6	8.6	-3.0
Vaping Marijuana bb																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.8	0.7	-0.1
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.0	1.7	-1.3 s
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.5	2.5	-1.0
Vaping Just Flavoring ^{bt}	b																														
8th Grade	_	_	_	_	_	_	_	_	_		_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.2	0.6	-0.7 ss
10th Grade	_	_	_	_	_	_	_	_	_		_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	2.0	1.6	-0.4
12th Grade																													2.8	1.9	-0.8

TABLE 8 (cont.)

Trends in 30-Day Prevalence of <u>Daily</u> Use of Various Drugs in Grades 8, 10, and 12

(Entries are percentages.)

																															2019-
																															2020
	<u>1991</u>	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 ^{kk}	2020	change
Smokeless Tobacco Daily ^t																															
8th Grade	1.6	1.8	1.5	1.9	1.2	1.5	1.0	1.0	0.9	0.9	1.2	0.8	8.0	1.0	0.7	0.7	0.8	0.8	8.0	0.9	8.0	0.5	0.5	0.5	8.0	0.6	0.4	0.3	0.5	0.5	0.0
10th Grade	3.3	3.0	3.3	3.0	2.7	2.2	2.2	2.2	1.5	1.9	2.2	1.7	1.8	1.6	1.9	1.7	1.6	1.4	1.9	2.5	1.7	2.0	1.9	1.8	1.6	1.0	0.6	1.0	0.9	0.7	-0.2
12th Grade	_	4.3	3.3	3.9	3.6	3.3	4.4	3.2	2.9	3.2	2.8	2.0	2.2	2.8	2.5	2.2	2.8	2.7	2.9	3.1	3.1	3.2	3.0	3.4	2.9	2.7	2.0	1.6	1.1	§	_
Legal Use of Stimulan	ıts																														
Energy Drinks 1 or More Daily ^{e,z}																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	18.6	17.7	16.3	14.2	12.8	12.1	11.3	10.1	10.3	10.5	§	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	13.6	11.4	10.8	10.3	9.6	7.8	9.2	8.8	9.1	10.5	§	_
12th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	12.3	9.5	9.2	8.2	8.3	7.8	9.8	9.4	10.1	11.6	§	_
Energy Shots 1 or More Daily ^{e,z}																															
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	6.4	6.8	5.7	5.6	4.2	5.3	4.4	4.0	3.7	4.6	8	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	4.3	4.6	4.0	4.0	3.4	2.6	3.3	3.3	3.8	4.1	§	_
12th Grade	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	4.3	4.0	2.7	2.5	2.1	3.1	4.1	3.8	4.2	4.1	§	_
Either Energy Drinks																															
or Energy Shots 1 or More Daily ^{e,z}																															
8th Grade	_		_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	19.5	18.9	17.2	15.4	13.5	13.0	12.3	11.1	11.4	11.7	§	_
10th Grade	_		_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	14.4	12.4	11.8	11.3	10.1	8.4	10.0	9.5	9.9	11.6	§	_
12th Grade	_		_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	13.5	11.0	9.9	9.1	9.3	9.0	10.9	10.9	11.2	12.8	§	_

Source. The Monitoring the Future study, the University of Michigan.

Note. See footnotes following Table 9.

TABLE 9
Trends in Two Week Prevalence of <u>Binge</u> and <u>Extreme Binge Drinking</u> in Grades 8, 10, and 12

								Percenta	ige who u	sed in last	t two week	S						
	1975- 2004	<u>2005</u>	<u>2006</u>	<u>2007</u>	2008	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2019 ^{kk}	2020	2019– 2020 <u>change</u>
5+ drinks in a row in last 2 weeks																		
8th Grade	_	8.4	8.7	8.3	8.1	7.8	7.2	6.4	5.1	5.1	4.1	4.6	3.4	3.7	3.7	3.8	4.5	+0.7
10th Grade	_	19.0	19.9	19.6	16.0	17.5	16.3	14.7	15.6	13.7	12.6	10.9	9.7	9.8	8.7	8.5	9.6	+1.1
12th Grade	_	27.1	25.4	25.9	24.6	25.2	23.2	21.6	23.7	22.1	19.4	17.2	15.5	16.6	13.8	14.4	16.8	+2.4
10+ drinks in a row in last 2 weeks e,ff																		
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	1.2	1.1	1.1	1.7	0.9	-0.8
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	3.0	3.6	3.3	3.3	2.5	-0.8
12th Grade	_	10.6	12.9	11.1	10.4	10.6	9.9	9.8	10.4	8.1	7.1	6.1	4.4	6.0	4.6	5.3	§	_
15+ drinks in a row in last 2 weeks ^e																		
8th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
10th Grade	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12th Grade	_	5.7	7.2	5.6	5.6	6.0	6.3	4.6	5.5	4.4	4.1	3.5	2.3	3.1	2.5	3.2	§	

Source. The Monitoring the Future study, the University of Michigan.

Note. See footnotes following Table 9.

Footnotes for Tables 5 through 9

Approximate Weighted Ns 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 8th Graders 18,600 18,300 17.300 17,500 17,800 18,600 18,100 16,700 16,700 16,200 15,100 16,500 17,000 16.800 10th Graders 14.800 14.800 15.300 15.800 17.000 15.600 15.500 15.000 13.600 14.300 14.000 14.300 15.800 16.400 16.200 16.200 12th Graders 15,000 15,800 16,300 15,400 15,400 14,300 15,400 15,200 13,600 12,800 12,800 12,900 14,600 14,600 14,700 14,200 **Approximate** Weighted Ns 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2017 2018 8th Graders 14,600 14,600 14,400 16,900 15,300 15,300 16,100 15,700 15,000 15,300 16,000 15,100 14.000 13.600 10th Graders 16,100 15,100 15,900 15,200 14,900 15,000 12,900 13,000 15,600 14,700 13,500 13,500 14,300 14,000 4,800 12th Graders 14,500 14,000 13,700 14,400 14,100 13,700 12,600 12,400 12,900 11,800 12,600 12,600 13,300 12,900 3,500

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available.' ‡ 'indicates that the question changed in the following year. See relevant footnote for that drug. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

§This estimate is not presented in 2020 due to small sample size. The survey question for this estimate appears on a randomly-selected 1/6 of the questionnaires, and the number of responses is uniquely small in 2020 when the COVID-19 pandemic halted MTF data collection prematurely and the resulting sample size was only 25% of the target.

^aFor 12th graders only: Use of any illicit drug includes any use of marijuana, LSD, other hallucinogens, crack, cocaine other than crack, or heroin; or any use of narcotics other than heroin, amphetamines, sedatives (barbiturates), or tranquilizers not under a doctor's orders. For 8th and 10th graders only: The use of narcotics other than heroin and sedatives (barbiturates) has been excluded because these younger respondents appear to overreport use (perhaps because they include the use of nonprescription drugs in their answers). Due to changes in the amphetamines questions 2013 data for all grades for any illicit drug use, any illicit drug use other than marijuana and 8th and 10th grade any illicit drug use including inhalants are based on one half of the *N* indicated. 12th grade any illicit drug use including inhalants data are based on one form; *N* is one sixth of *N* indicated. 2014 data are based on all forms. See the amphetamine note for details.

^bIn 2001 the question text was changed on half of the questionnaire forms for each age group. Other psychedelics was changed to other hallucinogens and shrooms was added to the list of examples. For the tranquilizer list of examples, Miltown was replaced with Xanax. For 8th, 10th, and 12th graders: The 2001 data presented here are based on the changed forms only; *N* is one half of *N* indicated. In 2002 the remaining forms were changed to the new wording. The data are based on all forms beginning in 2002. Data for any illicit drug other than marijuana and data for hallucinogens are also affected by these changes and have been handled in a parallel manner. Hallucinogens, LSD, and hallucinogens other than LSD are based on five of six forms beginning in 2014; *N* is five sixths of *N* indicated.

^cFor 12th graders only: Data based on five of six forms in 1991–1998; *N* is five sixths of *N* indicated. Data based on three of six forms beginning in 1999; *N* is three sixths of *N* indicated. For 8th and 10th graders only, beginning in 2014 data based on two thirds of *N* indicated.

^dInhalants are unadjusted for underreporting of amyl and butyl nitrites.

^eFor 12th graders only: Data based on one of six forms; *N* is one sixth of *N* indicated. In 2011 for flavored alcoholic beverages Skyy Blue and Zima were dropped from the list of examples. An examination of the data did not show any effect from the wording change. In 2014 the PCP use questions were dropped; annual PCP use was moved to another form. In 2016 a question on use of tobacco using a hookah was added to two additional forms; *N* is three sixths of *N* indicated.

fHallucinogens are unadjusted for underreporting of PCP.

⁹For 8th and 10th graders only: Data based on one of two forms in 1996; *N* is one half of *N* indicated. Data based on one third of *N* indicated in 1997–2001 due to changes in the questionnaire forms. Data based on two of four forms beginning in 2002; *N* is one half of *N* indicated. In 2014 a revised question on use of ecstasy (MDMA) including "Molly" was added to one form. The 2013 and 2014 "Original wording" data reported here are for only the questionnaires using the original question wording; *N* is one half of *N* indicated. Beginning in 2014 data

Footnotes for Tables 5 through 9 (cont.)

reported here for the "Revised wording" are for only the questionnaires which include "Molly;" *N* is two sixths of *N* indicated in 2014 and five sixths of the *N* indicated in 2015. For 12th graders only: Data based on one of six forms in 1996–2001; *N* is one sixth of *N* indicated Data based on two of six forms beginning in 2002; *N* is two sixths of *N* indicated. In 2014 a revised question on use of ecxtasy (MDMA) including "Molly" was added to one form. The 2013 and 2014 "Original wording" data reported here are for only the questionnaires using the original question wording; *N* is two sixths of *N* indicated. Beginning in 2014 data reported for the "Revised wording" are for only the questionnaires which include "Molly,"; *N* is one sixth of the *N* indicated in 2014 and three sixths of the *N* indicated in 2015.

^hFor 12th graders only: Data based on four of six forms; *N* is four sixths of *N* indicated.

In 1995 the heroin question was changed in one of two forms for 8th and 10th graders and in three of six forms for 12th graders. Separate questions were asked for use with and without injection. In 1996, the heroin question was changed in the remaining 8th-and 10th-grade forms. Data presented here represent the combined data from all forms.

^JFor 8th and 10th graders only: Data based on one of two forms in 1995; *N* is one half of *N* indicated. Data based on all forms in 1996 through 2014. In 2015 the question was dropped from 1 form; *N* is four sixths of *N* indicated. For 12th graders only: Data based on three of six forms; *N* is three sixths of *N* indicated.

^kOnly drug use not under a doctor's orders is included here.

In 2002 the question text was changed in half of the questionnaire forms. The list of examples of narcotics other than heroin was updated: Talwin, laudanum, and paregoric—all of which had negligible rates of use by 2001—were replaced with Vicodin, OxyContin, and Percocet. The 2002 data presented here are based on the changed forms only; *N* is one half of *N* indicated. In 2003, the remaining forms were changed to the new wording. The data are based on all forms beginning in 2003. In 2013 the list of examples was changed on one form: MS Contin, Roxycodone, Hydrocodone (Lortab, Lorcet, Norco), Suboxone, Tylox, and Tramadol were added to the list. An examination of the data did not show any effect from the wording change.

^mFor 8th, 10th, and 12th graders: In 2009, the question text was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change. In 2010 the remaining forms were changed in a like manner. In 2011 the question text was changed slightly in one form; bennies, Benzedrine and Methadrine were dropped from the list of examples. An examination of the data did not show any effect from the wording change. In 2013 the question wording was changed slightly in two of the 8th and 10th grade questionnaires and in three of the 12th grade questionnaires. The new wording in 2013 asked "On how many occasions (if any) have taken amphetamines or other prescription stimulant drugs..." In contrast, the old wording did not include the text highlighted in red. Results in 2013 indicated higher prevalence in questionnaires with the new wording as compared to the old wording; it was proportionally 61% higher in 8th grade, 34% higher in 10th grade, and 21% higher in 12th grade. 2013 data are based on the changed forms only; for 8th, 10th, and 12th graders N is one half of N indicated. Beginning in 2014 all questionnaires included the new, updated wording.

"For 8th and 10th graders only: Data based on one of four forms; N is one third of N indicated. See text for detailed explanation. In 2011 for flavored alcoholic beverages: Skyy Blue and Zima were dropped from the list of examples. An examination of the data did not show any effect from the wording change. Annual synthetic marijuana use questions asked of one third of N indicated.

^oFor 12th graders only: Data based on two of six forms; N is two sixths of N indicated. Bidis and kreteks based on one of six forms beginning in 2009; N is one sixth N indicated.

PFor 12th graders only: In 2004 the barbiturate question text was changed on half of the questionnaire forms. Barbiturates was changed to sedatives including barbiturates, and "have you taken barbiturates..." was changed to "have you taken sedatives..." In the list of examples downs, downers, goofballs, yellow, reds, blues, rainbows were changed to downs, or downers, and include Phenobarbital, Tuinal, Nembutal, and Seconal. An examination of the data did not show any effect from the wording change. In 2005 the remaining forms were changed in a like manner. In 2013 the question text was changed in all forms: Tuinal, Nembutal, and Seconal were replaced with Ambien, Lunesta, and Sonata. In one form the list of examples was also changed: Tuinal was dropped from the list and Dalmane, Restoril, Halcion, Intermezzo, and Zolpimist were added. An examination of the data did not show any effect from the wording change.

Footnotes for Tables 5 through 9 (cont.)

^qThe use of any prescription drug includes use of any of the following: amphetamines, sedatives (barbiturates), narcotics other than heroin, or tranquilizers "...without a doctor telling you to use them."

For 8th and 10th graders only: Data based on one of two forms in 1996; *N* is one half of *N* indicated. Data based on three of four forms in 1997–1998; *N* is two thirds of *N* indicated. Data based on two of four forms in 1999–2001; *N* is one third of *N* indicated. Data based on one of four forms beginning in 2002; *N* is one sixth of *N* indicated. See text for detailed explanation. For 12th graders only: Data based on one of six forms in 1996–2001; *N* is one sixth of *N* indicated. Data based on two of six forms in 2002–2009; *N* is two sixths of *N* indicated. Data for 2001 and 2002 are not comparable due to changes in the questionnaire forms. Data based on one of six forms beginning in 2010; *N* is one sixth of *N* indicated.

For 8th, 10th, and 12th graders: In 1993, the question text was changed slightly in half of the forms to indicate that a drink meant more than just a few sips. The 1993 data are based on the changed forms only; *N* is one half of *N* indicated for these groups. In 1994 the remaining forms were changed to the new wording. The data are based on all forms beginning in 1994. In 2004, the question text was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change. The remaining forms were changed in 2005.

^tFor 8th and 10th graders only: Data based on one of two forms for 1991–1996 and on two of four forms beginning in 1997; *N* is one half of *N* indicated. For 12th graders only: Data based on one of six forms; *N* is one sixth of *N* indicated. For all grades in 2011: snus and dissolvable tobacco were added to the list of examples. An examination of the data did not show any effect from the wording change.

"For 8th and 10th graders only: In 2006, the question text was changed slightly in half of the questionnaire forms. An examination of the data did not show any effect from the wording change. In 2007 the remaining forms were changed in a like manner. In 2008 the question text was changed slightly in half of the questionnaire forms. An examination of the data did not show any effect from the wording change. In 2009 the remaining forms were changed in a like manner. For 12th graders only: Data based on two of six forms in 1991–2005 and; again beginning in 2019; N is two sixths of *N* indicated. Data based on three of six forms in 2006-2018; *N* is three sixths of *N* indicated. In 2006 a slightly altered version of the question was added to a third form. An examination of the data did not show any effect from the wording change. In 2007 the remaining forms were changed in a like manner. In 2008 the question text was changed slightly in two of the questionnaire forms. An examination of the data did not show any effect from the wording change. In 2009 the remaining form was changed in a like manner.

"For 12th graders only: Data based on two of six forms in 2002–2005; *N* is two sixths of *N* indicated. Data based on three of six forms

*For 12th graders only: Data based on two of six forms in 2000; *N* is two sixths of *N* indicated. Data based on three of six forms in 2001; *N* is three sixths of *N* indicated. Data based on one of six forms beginning in 2002; *N* is one sixth of *N* indicated.

^xFor 12th graders only: Data based on two of six forms in 2000; *N* is two sixths of *N* indicated. Data based on three of six forms in 2001–2009; *N* is three sixths of *N* indicated. Data based on two of six forms beginning in 2010; *N* is two sixths of *N* indicated.

^yThe 2003 flavored alcoholic beverage data were created by adjusting the 2004 data to reflect the change in the 2003 and 2004 alcopops data

²For 8th and 10th graders only: Data based on one of four forms; *N* is one third of *N* indicated. See text for detailed explanation. For 12th graders only: Data based on two of six forms; *N* is two sixths of *N* indicated. For all grades: In 2011 the question text was "...had an alcoholic beverage containing caffeine (like Four Loko or Joose)." In 2012 the question text was changed to "...had an alcoholic beverage mixed with an energy drink (like Red Bull)." An examination of the data did not show any effect from the wording changes.

^{aa} Daily use is defined as use on 20 or more occasions in the past 30 days except for cigarettes and smokeless tobacco, for which actual daily use is measured, and for 5+ drinks, for which the prevalence of having five or more drinks in a row in the last two weeks is measured.

^{bb}8th and 10th grade data based on one third of *N* indicated until 2019. In 2019, data based on two thirds of *N* indicated. 12th grade data based on two of six forms until 2019; N is two sixths of N indicated. In 2019, data based on four of six forms; *N* is four sixths of *N* indicated. Beginning in 2020, data based on all available forms for 8th, 10th, and 12th graders.

For androstenedione, beginning in 2016, data based on one form. N is one sixth of N indicated.

beginning in 2006; N is three sixths of N indicated.

^{cc}In 2017, the surveys switched from asking about vaping in general to asking separately about vaping nicotine, marijuana, and just flavoring. Beginning in 2017, data presented for any vaping are based on these new questions.

 $^{\text{dd}}$ In 2005, data omitted for one of the questionnaire forms due to an error in the skip pattern in the questionnaire. In 2005, data based on one of six forms and N is one sixth of N indicated. Beginning in 2006, data based on two of six forms and N is two sixths of N indicated.

Footnotes for Tables 5 through 9 (cont.)

^{II}For 8th and 10th graders only: Prior to 2020, data based on one of four forms; *N* is one sixth of *N* indicated. For 12th graders only: Prior to 2020, data based on one of six forms; *N* is one sixth of *N* indicated. Beginning in 2020, data based on all available forms for 8th, 10th, and 12th graders.

kkln 2019 a randomly-selected half of the respondents answered survey questions using electronic tablets and the other half used paper and pencil. Drug prevalence estimates were the same across survey mode (documented <u>here</u>), while questions on the other topics were subject to survey mode effects in some cases. All 2019 drug prevalence estimates combine responses from electronic tablets and paper. For estimates other than drug prevalence we use the mode that allows us direct comparison of the latest year and the penultimate year of estimates without mode effects.

Specifically, we report tablet-based 2019 estimates for outcomes with 2020 estimates (when all respondents used tablets) and we report paper-based 2019 respondents when 2019 estimates are the most recent reported (for direct comparison with 2018 estimates, when all respondents used paper).

ee-For the use of prescription ADHD drugs, the question is asked differently than that for other drugs presented here. Therefore, the estimates indicate youth who reported "Yes, I take them now."

^{ff}For 8th and 10th graders only: Data based on two of four forms; *N* is one third of *N* indicated.

⁹⁹Includes use of any of the following: cigarettes, large cigars, flavored small cigars, regular small cigars, tobacco using a hookah, smokeless tobacco, or vaping nicotine.

hhlncludes use of any of the following: cigarettes, large cigars, flavored small cigars, regular small cigars, tobacco using a hookah, or smokeless tobacco.

[&]quot;For 8th and 10th graders only: Data based on one third of *N* indicated. For 12th graders only: Data based on one of six forms; *N* is one sixth of *N* indicated.

TABLE 10
Trends in <u>Harmfulness</u> of Drugs as Perceived by <u>8th Graders</u>

Herricon de la control de la c						Pé	ercentad	e savina	great ris	k ^a						
How much do you think people risk harming themselves (physically or in other ways), if																
they	1991	1992	1993	1994	<u>1995</u>	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	200
Try marijuana once or twice b	40.4	39.1	36.2	31.6	28.9	27.9	25.3	28.1	28.0	29.0	27.7	28.2	30.2	31.9	31.4	32.
Smoke marijuana occasionally b	57.9	56.3	53.8	48.6	45.9	44.3	43.1	45.0	45.7	47.4	46.3	46.0	48.6	50.5	48.9	48.
Smoke marijuana regularly ^b	83.8	82.0	79.6	74.3	73.0	70.9	72.7	73.0	73.3	74.8	72.2	71.7	74.2	76.2	73.9	73.
Try synthetic marijuana once or twice c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take synthetic marijuana occasionally ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try inhalants once or twice d	35.9	37.0	36.5	37.9	36.4	40.8	40.1	38.9	40.8	41.2	45.6	42.8	40.3	38.7	37.5	35.
Take inhalants regularly ^d	65.6	64.4	64.6	65.5	64.8	68.2	68.7	67.2	68.8	69.9	71.6	69.9	67.4	66.4	64.1	62.
Take LSD once or twice e	_	_	42.1	38.3	36.7	36.5	37.0	34.9	34.1	34.0	31.6	29.6	27.9	26.8	25.8	23.
Take LSD regularly ^e	_	_	68.3	65.8	64.4	63.6	64.1	59.6	58.8	57.5	52.9	49.3	48.2	45.2	44.0	40.
Try ecstasy (MDMA, Molly) once or twice f	_	_	_	_	_	_	_	_	_	_	35.8	38.9	41.9	42.5	40.0	32.
Take ecstasy (MDMA, Molly) occasionally ^f	_	_	_	_	_	_	_	_	_	_	55.5	61.8	65.8	65.1	60.8	52.
Try salvia once or twice c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take salvia occasionally ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try cocaine once or twice d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take cocaine occasionally d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try crack once or twice d	62.8	61.2	57.2	54.4	50.8	51.0	49.9	49.3	48.7	48.5	48.6	47.4	48.7	49.0	49.6	47.6
Take crack occasionally ^d	82.2	79.6	76.8	74.4	72.1	71.6	71.2	70.6	70.6	70.1	70.0	69.7	70.3	70.4	69.4	68.7
Try cocaine powder once or twice d	55.5	54.1	50.7	48.4	44.9	45.2	45.0	44.0	43.3	43.3	43.9	43.2	43.7	44.4	44.2	43.
Take cocaine powder occasionally ^d	77.0	74.3	71.8	69.1	66.4	65.7	65.8	65.2	65.4	65.5	65.8	64.9	65.8	66.0	65.3	64.
Try heroin once or twice without using				00.1	00. F	00.7	00.0	00.2	JJ. 7	00.0	00.0	01.0	00.0	00.0	55.5	
a needle e	_	_	_	_	60.1	61.3	63.0	62.8	63.0	62.0	61.1	62.6	62.7	61.6	61.4	60.
Take heroin occasionally without using																
a needle e	_			_	76.8	76.6	79.2	79.0	78.9	78.6	78.5	78.5	77.8	77.5	76.8	75.
Try OxyContin once or twice o	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take OxyContin occasionally ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try Vicodin once or twice c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take Vicodin occasionally °	-	-	-	-	-	-	_	_	-	_	_	_	-	_	-	_
Try Adderall once or twice c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take Adderall occasionally ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try bath salts (synthetic stimulants) once or twice c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take bath salts (synthetic stimulants) occasionally ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try cough/cold medicine once or twice c							_		_		_		_		_	
Take cough/cold medicine occasionally ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Try one or two drinks of an alcoholic																
beverage (beer, wine, liquor) b	11.0	10.1	10.4	11.6	11.0	11.0	10.4	10.1	11.6	11.0	10.0	10.5	10.6	12.7	12.0	14.
Take one or two drinks nearly every day b	11.0	12.1	12.4	11.6	11.6	11.8	10.4	12.1	11.6	11.9	12.2	12.5	12.6	13.7	13.9	
	31.8	32.4	32.6	29.9	30.5	28.6	29.1	30.3	29.7	30.4	30.0	29.6	29.9	31.0	31.4	31.
Have five or more drinks once or twice each weekend ^b	50.4	50.0				54.0	FF 6	F0.0	55.0	55.6	50.4	56.4	56.5	50.0	F7.0	
	59.1	58.0	57.7	54.7	54.1	51.8	55.6	56.0	55.3	55.9	56.1			56.9	57.2	56.4
Smoke one to five cigarettes per day c	_	_	_	_	_	_	_	_	26.9	28.9	30.5	32.8	33.4	37.0	37.5	37.
Smoke one or more packs of cigarettes																
per day ^g	51.6	50.8	52.7	50.8	49.8	50.4	52.6	54.3	54.8	58.8	57.1	57.5	57.7	62.4	61.5	59.
Use electronic cigarettes (e-cigarettes) regularly ^h	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vape an e-liquid with nicotine occasionally ^{e.j}	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Vape an e-liquid with nicotine regularly c,i	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vape marijuana occasionally ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vape marijuana regularly ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Use JUUL occasionally k	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Use JUUL regularly k	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Smoke little cigars or cigarillos regularly °	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Use smokeless tobacco regularly	35.1	35.1	36.9	35.5	33.5	34.0	35.2	36.5	37.1	39.0	38.2	39.4	39.7	41.3	40.8	39.
Take dissolvable tobacco regularly °	-	_	_	_	_	_	_	_	_	_	_	-	-	_		_
Take snus regularly °	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take steroids i	64.2	69.5	70.2	67.6	_			_					_			
Approximate weighted N =	17,400	18,700	18,400	17,400	17,500	17,900	18.800	18,100	16,700	16.700	16,200	15,100	16,500	17,000	16,800	16,50
roightout it	,,,,,,,	. 2,700	2, 700	.,,,,,,,	,000	,000	. 2,000	. 2, 100	. 2,700	2,700	. 2,200	. 2, 700	2,500	,500	2,300	. 5,5

TABLE 10 (cont.)
Trends in <u>Harmfulness</u> of Drugs as Perceived by <u>8th Graders</u>

How much do you think people risk harming						Percer	ntage sa	ying grea	at risk ^a						
themselves (physically or in other ways), if they	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2019–2020 change
Try marijuana once or twice b	32.8	31.1	29.5	29.5	28.2	26.0	24.1	23.0	23.0	22.8	22.0	20.3	22.2	21.7	-0.5
Smoke marijuana occasionally ^b	50.2	48.1	44.8	44.1	43.4	41.7	37.2	36.7	36.8	36.8	34.0	32.1	31.9	31.4	-0.5
Smoke marijuana regularly b	74.3	72.0	69.8	68.0	68.3	66.9	61.0	58.9	58.0	57.5	54.8	52.9	53.1	54.0	+0.9
Try synthetic marijuana once or twice °	_	_	_	_	_	24.4	24.2	23.9	26.0	27.5	23.0	22.2	26.5	25.7	-0.8
Take synthetic marijuana occasionally ^c	_	_	_	_	_	36.8	36.2	32.4	33.5	35.4	30.4	28.8	31.1	32.3	+1.2
Try inhalants once or twice d	35.9	33.9	34.1	35.5	34.7	34.2	33.7	34.5	33.7	32.0	31.5	29.6	25.4	27.2	+1.8
Take inhalants regularly ^d	61.9	59.2	58.1	60.6	59.0	59.0	56.7	55.3	54.1	52.1	50.0	46.8	43.1	50.7	+7.6 ss
Take LSD once or twice e	22.8	21.9	21.4	23.6	21.7	19.9	19.6	20.0	22.2	22.6	23.1	20.8	22.7	19.7	-3.0
Take LSD regularly ^e	38.5	36.9	37.0	38.6	37.8	35.0	34.5	33.7	37.0	36.8	37.9	36.4	40.0	38.4	-1.7
Try ecstasy (MDMA, Molly) once or twice f	30.4	28.6	26.0	27.0	25.4	23.6	24.1‡	46.1	45.5	42.5	43.3	41.9	42.7	33.0	-9.6 sss
Take ecstasy (MDMA, Molly) occasionally f	48.6	46.8	43.9	45.0	43.7	41.0	42.1‡	59.7	58.5	54.0	54.6	53.6	53.7	44.2	-9.5 sss
Try salvia once or twice °	_	_	_	_	_	9.5	8.5	_	_	_	_	_	_	_	_
Take salvia occasionally ^c	_	_	_	_	_	16.1	14.6	_	_	_	_	_	_	_	_
Try cocaine once or twice d	_	_	_	_	_	_	_	_	_	_	_	_	_	49.4	_
Take cocaine occasionally d	_	_	_	_	_	_	_	_	_	_	_	_	_	68.1	_
Try crack once or twice ^d	47.3	47.1	46.6	49.6	48.1	47.0	47.1	48.3	49.6	48.9	49.3	47.7	47.2	-	_
Take crack occasionally d	68.3	67.9	66.6	68.4	67.7	67.8	66.5	65.5	65.7	65.7	66.9	65.3	64.5	_	_
Try cocaine powder once or twice ^d	43.5	42.7	42.3	45.7	43.3	42.8	43.5	43.9	44.3	44.3	44.5	42.6	52.7	_	-
Take cocaine powder occasionally d	64.2	62.7	62.3	64.2	63.5	63.3	62.7	61.8	61.6	62.4	62.7	61.0	63.8	_	_
Try heroin once or twice without using a needle e	60.3	60.8	60.0	62.3	61.7	59.1	59.8	60.9	61.4	59.2	62.9	59.5	61.0	60.6	-0.5
Take heroin occasionally without using															
a needle e	76.4	75.5	74.0	76.7	75.9	75.1	73.4	73.2	72.7	70.3	74.7	72.1	70.5	73.1	+2.6
Try OxyContin once or twice c	_	_	_	_	_	21.9	19.9	22.1	20.2	21.3	21.0	20.8	22.4	18.7	-3.7
Take OxyContin occasionally ^c	_	_	_	_	_	35.3	32.6	34.4	32.5	33.5	32.6	32.5	35.5	34.0	-1.5
Try Vicodin once or twice c	_	_	_	_	_	17.5	15.0	18.4	16.9	18.3	17.1	16.1	21.8	19.6	-2.2
Take Vicodin occasionally ^c	_	_	_	_	_	29.4	26.2	28.2	26.7	28.8	26.7	25.9	30.6	29.2	-1.4
Try Adderall once or twice c	_	_	_	_	_	17.6	16.5	20.7	19.2	21.4	20.4	20.1	24.7	24.5	-0.1
Take Adderall occasionally ^c	_	_	_	_	_	29.9	28.3	32.5	32.0	35.9	33.8	34.0	32.0	32.2	+0.3
Try bath salts (synthetic stimulants) once or twice ^c	_	_	_	_	_	24.9	39.3	36.8	33.9	31.8	32.0	30.1	_	_	_
Take bath salts (synthetic stimulants) occasionally ^c						38.8	51.9	49.1	45.5	42.5	43.1	41.2			
Try cough/cold medicine once or twice c			_		_								26.0	24.0	_
Take cough/cold medicine occasionally c	_	_	_	_	_	21.2 38.8	20.1 37.3	22.9 37.9	20.9 37.3	23.5 38.6	21.2 35.2	19.5 34.5	26.8 36.8	24.9 34.9	-1.9 -1.9
Try one or two drinks of an alcoholic	_	_	_	_	_	30.0	31.3	37.9	37.3	30.0	35.2	34.5	30.0	34.9	-1.9
beverage (beer, wine, liquor) b	14.9	13.5	14.4	14.9	14.5	13.9	13.7	14.8	15.3	14.7	14.2	13.6	15.6	9.8	-5.8 ss
Take one or two drinks nearly every day ^b	32.6	31.5	31.5	32.3	31.8	31.4	30.6	31.0	30.9	30.7	30.0	28.7	33.2	27.1	-6.0 s
Have five or more drinks once or twice															
each weekend ^b	57.9	57.0	55.8	57.2	58.4	58.2	55.7	54.3	53.9	53.4	53.7	52.3	55.6	49.3	-6.3 s
Smoke one to five cigarettes per day ^c	38.6	38.6	38.6	38.2	37.4	40.4	42.8	41.9	41.7	43.2	41.9	40.8	38.8	38.2	-0.6
Smoke one or more packs of cigarettes per day ^g	61.1	59.8	59.1	60.9	62.5	62.6	62.4	62.1	63.0	61.2	62.1	61.3	65.6	63.9	-1.7
Use electronic cigarettes (e-cigarettes) regularly ^h								14.5	18.5	21.3	20.3	22.1			
Vape an e-liquid with nicotine occasionally c, j	_	_	_	_	_	_	_				18.3	16.9	21.3	28.0	+6.7 s
Vape an e-liquid with nicotine regularly c, j	_	_	_	_	_	_	_	_	_	_	32.7	32.4	43.6	53.1	+9.5 ss
Vape marijuana occasionally ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	36.4	_
Vape marijuana regularly °	_	_	_	_	_	_	_	_	_	_	_	_	_	55.4	_
Use JUUL occasionally k	_	_	_	_	_	_	_	_	_	_	_	_	23.0	29.2	+6.2 sss
Use JUUL regularly k	_	_	_	_	_	_	_	_	_	_	_	_	37.9	49.5	+11.6 sss
Smoke little cigars or cigarillos regularly °	_	_	_	_	_	_	_	28.8	31.0	32.5	30.8	30.5	37.2	41.9	+4.7
Use smokeless tobacco regularly	41.8	41.0	40.8	41.8	40.8	37.8	36.2	34.5	36.6	35.1	34.8	34.3	40.9	37.3	-3.6
Take dissolvable tobacco regularly ^c	_	_	_	_	_	34.8	32.2	33.5	33.0	34.3	31.9	31.3	37.4	37.3	-0.1
Take snus regularly °	_	_	_	_	_	42.2	38.9	38.3	37.7	37.9	36.4	34.2	38.3	37.2	-1.1
Take steroids i	_	_	_		_	_	_	_	_	_	_	_	_	_	_
Approximate weighted N =	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	6,800	3,100	

TABLE 10 (cont.)

Trends in Harmfulness of Drugs as Perceived by 8th Graders

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between

the change estimate and the prevalence estimates for the two most recent years is due to rounding. "‡' indicates that the question changed the following year.

^aAnswer alternatives were: (1) No risk, (2) Slight risk, (3) Moderate risk, (4) Great risk, and (5) Can't say, drug unfamiliar.

^bBeginning in 2012 data based on two thirds of N indicated.

Data based on one third of N indicated.

^dBeginning in 1997, data based on two thirds of N indicated.

Data based on one of two forms in 1993–1996; N is one half of N indicated. Beginning in 1997, data based on one third of N indicated due to changes in questionnaire forms.

Beginning in 2014 data are based on the revised question which included "Molly," N is one third of N indicated in 2014 and two thirds of N indicated in 2015. 2014 and 2015 data

are not comparable to earlier years due to the revision of the question text.

⁹Beginning in 1999, data based on two thirds of N indicated due to changes in questionnaire forms.

 $^{\rm h}\textsc{E-cigarette}$ data based on two thirds of N indicated. Little cigars or cigarillos data based on one third N indicated.

¹Data based on two forms in 1991 and 1992. Data based on one of two forms in 1993 and 1994; N is one half of N indicated.

Percentages for all years reported here include respondents who replied "can't say, drug unfamiliar" in the denominator. The percentage for 2017 published in late 2017 and early

2018 did not include these respondents in the denominator.

^kData based on two thirds of N indicated.

In 2019 a randomly-selected half of the respondents answered survey questions using electronic tablets and the other half used paper and pencil. Drug prevalence estimates were the same across survey mode (documented here), while questions on the other topics were subject to survey mode effects in some cases. All 2019 drug prevalence estimates combine responses from electronic tablets and paper. For estimates other than drug prevalence we use the mode that allows us direct comparison of the latest year and the penultimate year of estimates without mode effects. Specifically, we report tablet-based 2019 estimates for outcomes with 2020 estimates (when all respondents used tablets) and we report paper-based 2019 respondents when 2019 estimates are the most recent reported (for direct comparison with 2018 estimates, when all respondents used paper).

TABLE 11
Trends in <u>Harmfulness</u> of Drugs as Perceived by <u>10th Graders</u>

How much do you think people risk harming							Percer	ntage say	ying grea					_		
themselves (physically or in other ways), if they	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Try marijuana once or twice ^b	30.0	31.9	29.7	24.4	21.5	20.0	18.8	19.6	19.2	18.5	17.9	19.9	21.1	22.0	22.3	22.2
Smoke marijuana occasionally ^b	48.6	48.9	46.1	38.9	35.4	32.8	31.9	32.5	33.5	32.4	31.2	32.0	34.9	36.2	36.6	35.6
Smoke marijuana regularly ^b	82.1	81.1	78.5	71.3	67.9	65.9	65.9	65.8	65.9	64.7	62.8	60.8	63.9	65.6	65.5	64.9
Try synthetic marijuana once or twice c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take synthetic marijuana occasionally ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try inhalants once or twice ^d	37.8	38.7	40.9	42.7	41.6	47.2	47.5	45.8	48.2	46.6	49.9	48.7	47.7	46.7	45.7	43.9
Take inhalants regularly ^d	69.8	67.9	69.6	71.5	71.8	75.8	74.5	73.3	76.3	75.0	76.4	73.4	72.2	73.0	71.2	70.2
Take LSD once or twice e	_	_	48.7	46.5	44.7	45.1	44.5	43.5	45.0	43.0	41.3	40.1	40.8	40.6	40.3	38.8
Take LSD regularly ^e	_	_	78.9	75.9	75.5	75.3	73.8	72.3	73.9	72.0	68.8	64.9	63.0	63.1	60.8	60.7
Try ecstasy (MDMA, Molly)) once or twice ^f	_	_	_	_	_	_	_	_	_	_	39.4	43.5	49.7	52.0	51.4	48.4
Take ecstasy (MDMA, Molly) occasionally ^f	_	_	_	_	_	_	_	_	_	_	64.8	67.3	71.7	74.6	72.8	71.3
Try salvia once or twice c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take salvia occasionally ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try cocaine once or twice d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take cocaine occasionally ^d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try crack once or twice ^d	70.4	69.6	66.6	64.7	60.9	60.9	59.2	58.0	57.8	56.1	57.1	57.4	57.6	56.7	57.0	56.6
Take crack occasionally ^d	87.4	86.4	84.4	83.1	81.2	80.3	78.7	77.5	79.1	76.9	77.3	75.7	76.4	76.7	76.9	76.2
Try cocaine powder once or twice ^d	59.1	59.2	57.5	56.4	53.5	53.6	52.2	50.9	51.6	48.8	50.6	51.3	51.8	50.7	51.3	50.2
Take cocaine powder occasionally ^d	82.2	80.1	79.1	77.8	75.6	75.0	73.9	71.8	73.6	70.9	72.3	71.0	71.4	72.2	72.4	71.3
Try heroin once or twice without using a needle ^e	_	_	_	_	70.7	72.1	73.1	71.7	73.7	71.7	72.0	72.2	70.6	72.0	72.4	70.0
Take heroin occasionally without using a needle ^e	_	_	_	_	85.1	85.8	86.5	84.9	86.5	85.2	85.4	83.4	83.5	85.4	85.2	83.6
Try OxyContin once or twice c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take OxyContin occasionally ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try Vicodin once or twice ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take Vicodin occasionally ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try Adderall once or twice c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take Adderall occasionally c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try bath salts (synthetic stimulants) once or twice ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take bath salts (synthetic stimulants) occasionally ^c																
	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try cough/cold medicine once or twice c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take cough/cold medicine occasionally c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try one or two drinks of an alcoholic			40.0						40.5					40.0		
beverage (beer, wine, liquor) b Take one or two drinks nearly every day b	9.0	10.1	10.9	9.4	9.3	8.9	9.0	10.1	10.5	9.6	9.8	11.5	11.5	10.8	11.5	11.1
	36.1	36.8	35.9	32.5	31.7	31.2	31.8	31.9	32.9	32.3	31.5	31.0	30.9	31.3	32.6	31.7
Have five or more drinks once or twice each weekend "	54.7	55.9	54.9	52.9	52.0	50.9	51.8	52.5	51.9	51.0	50.7	51.7	51.6	51.7	53.3	52.4
Smoke one to five cigarettes per day c	_	_	_	_	_	_	_	_	28.4	30.2	32.4	35.1	38.1	39.7	41.0	41.3
Smoke one or more packs of cigarettes per day ⁹	60.3	59.3	60.7	59.0	57.0	57.9	59.9	61.9	62.7	65.9	64.7	64.3	65.7	68.4	68.1	67.7
Use electronic cigarettes (e-cigarettes)																
regularly h	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vape an e-liquid with nicotine occasionally ^{c,j}	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vape an e-liquid with nicotine regularly c.j	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vape marijuana occasionally ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vape marijuana regularly ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Use JUUL occasionally k	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Use JUUL regularly k	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Smoke little cigars or cigarillos regularly c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Use smokeless tobacco regularly	40.3	39.6	44.2	42.2	38.2	41.0	42.2	42.8	44.2	46.7	46.2	46.9	48.0	47.8	46.1	45.9
Take dissolvable tobacco regularly ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take snus regularly ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take steroids i	67.1	72.7	73.4	72.5	_	_	_	_	_	_	_	_	_	_	_	_
Approximate weighted N =	14,700	14,800	15,300	15,900	17,000	15,700	15,600	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200
•																

TABLE 11 (cont.)
Trends in <u>Harmfulness</u> of Drugs as Perceived by <u>10th Graders</u>

How much do you think people risk harming						Percer	ntage say	ing grea	at risk ^a						
themselves (physically or in other ways), if they	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 ¹	2020	2019–2020 change
Try marijuana once or twice b	22.2	23.1	20.5	19.9	19.3	17.2	15.7	15.2	15.8	16.4	14.8	13.9	15.2	13.7	-1.5
Smoke marijuana occasionally ^b	36.0	37.0	32.9	30.9	30.1	26.8	25.1	23.9	24.7	24.4	21.9	21.4	21.0	19.1	-1.9
Smoke marijuana regularly ^b	64.5	64.8	59.5	57.2	55.2	50.9	46.5	45.4	43.2	44.0	40.6	38.1	39.6	36.1	-3.6
Try synthetic marijuana once or twice c	_		_			24.6	24.1	25.0	26.3	26.8	25.1	24.3	30.2	27.5	-2.7
Take synthetic marijuana occasionally ^c	_	_	_	_	_	34.9	32.8	30.7	31.7	31.8	29.2	28.8	32.5	30.4	-2.1
Try inhalants once or twice d	43.0	41.2	42.0	42.5	42.4	42.4	43.0	43.1	43.1	40.7	37.9	38.6	36.1	40.1	+4.0 s
Γake inhalants regularly ^d	68.6	66.8	66.8	67.1	66.2	66.1	65.9	64.7	63.1	59.7	57.7	57.6	55.0	60.6	+5.6 ss
Take LSD once or twice ^e	35.4	34.6	34.9	33.9	34.2	34.7	34.7	34.5	36.4	34.4	31.6	33.8	33.3	25.3	-8.0 ss
Take LSD regularly ^e	56.8	55.7	56.7	56.1	54.9	56.4	55.9	54.8	58.3	55.2	53.0	54.1	57.8	51.1	-6.7 s
Try ecstasy (MDMA, Molly)) once or twice 1	45.3	43.2	38.9	36.3	37.2	36.2	36.0‡	53.2	54.8	54.2	55.4	54.5	58.3	42.8	-15.5 sss
Take ecstasy (MDMA, Molly) occasionally ¹	68.2	66.4	62.1	59.2	60.8	59.8	58.6‡	69.0	70.1	69.3	68.6	67.6	67.4	56.0	-11.4 sss
Try salvia once or twice c	_	_	_	_	_	12.2	10.7	_	_	_	_	_	_	_	_
Γake salvia occasionally ^c	_	_	_	_	_	20.3	17.1	_	_	_	_	_	_	_	_
Fry cocaine once or twice d	_	_	_	_	_	_	_	_	_	_	_	_	_	57.9	_
Γake cocaine occasionally ^d	_	_	_	_	_	_	_	_	_	_	_	_	_	72.4	_
Try crack once or twice d	56.4	56.5	57.7	58.1	59.5	59.0	60.2	61.4	62.5	61.3	60.7	60.4	61.9	_	_
Γake crack occasionally ^d	76.0	76.5	75.9	76.2	76.5	76.7	77.8	76.4	77.5	75.2	75.1	75.0	75.2	_	_
Γry cocaine powder once or twice ^d	49.5	49.8	50.8	52.9	53.0	53.4	54.5	54.1	54.8	54.6	52.5	52.6	62.3	_	_
Take cocaine powder occasionally d	70.9	71.1	71.0	72.2	72.0	72.6	72.8	71.7	72.6	70.9	70.4	70.2	72.9	_	_
Fry heroin once or twice without using a needle ^e	70.5	70.8	72.2	73.0	72.9	72.6	73.2	72.6	74.1	73.3	72.2	71.4	75.6	76.3	+0.6
ake heroin occasionally without using a needle e														00.4	
	84.2	83.1	83.3	84.8	83.4	84.4	84.0	82.5	83.3	82.2	81.4	81.0	81.8	83.4	+1.6
ry OxyContin once or twice ^c Take OxyContin occasionally ^c	_	_	_	_	_	30.9	29.4	29.7	29.9	28.7	27.8	29.6	31.4	30.2	-1.2
ry Vicodin once or twice c	_	_	_	_	_	48.3	44.7	44.4	43.7	41.4	41.3	43.9	45.8	45.0	-0.8
ake Vicodin occasionally c	_	_	_	_	_	23.2	21.0	22.5	24.1	21.8	22.1	23.2	28.2	27.5	-0.6
ry Adderall once or twice c			_	_	_	40.3	36.0	36.4	35.4 22.9	32.6	32.0	34.8	38.6	35.7	-2.9
Take Adderall occasionally c	_	_	_	_	_	19.7 34.3	17.6 30.5	22.2 37.0	37.0	22.5 35.8	21.6 36.4	23.2 39.8	29.4 38.8	27.6 38.4	-1.8 -0.4
ry bath salts (synthetic stimulants)	_	_	_	_	_								30.0	30.4	-0.4
Take bath salts (synthetic stimulants)	_	_	_	_	_	32.3	50.1	49.6	49.1	42.7	42.5	41.1	_	_	_
occasionally ^c	_	_	_	_	_	44.9	61.8	61.1	60.4	53.0	51.5	51.4	_	_	_
Try cough/cold medicine once or twice c	_	_	_	_	_	23.6	21.6	22.9	24.0	24.0	21.8	22.1	31.1	28.5	-2.6
Take cough/cold medicine occasionally ^c	_	_	_	_	_	40.4	37.3	38.3	38.2	37.6	36.4	37.2	39.3	38.8	-0.5
ry one or two drinks of an alcoholic															
beverage (beer, wine, liquor) b	11.6	12.6	11.9	11.9	12.3	11.3	11.3	11.6	12.4	13.3	12.5	13.0	13.4	10.2	-3.2 s
Take one or two drinks nearly every day b	33.3	35.0	33.8	33.1	32.9	31.8	30.6	31.3	31.2	32.2	30.9	30.3	33.7	27.2	-6.6 sss
Have five or more drinks once or twice															
each weekend ^b	54.1	56.6	54.2	54.6	55.5	52.8	52.3	54.0	54.5	54.5	52.0	51.8	53.3	45.5	-7.8 sss
Smoke one to five cigarettes per day c	41.7	43.5	42.8	41.4	44.8	49.1	47.7	52.0	52.9	53.0	50.0	49.9	47.7	48.0	+0.2
Smoke one or more packs of cigarettes per day ^g	68.2	69.1	67.3	67.2	69.8	71.6	70.8	72.0	72.9	71.5	69.8	69.6	72.8	68.9	-3.9
Jse electronic cigarettes (e-cigarettes) regularly ^h	_	_	_	_	_	_	_	14.1	17.0	19.1	19.4	22.8	_	_	_
ape an e-liquid with nicotine occasionally $^{\mathrm{e,j}}$	_	_	_	_	_	_	_	_	_	_	17.0	17.9	18.4	25.9	+7.5 sss
/ape an e-liquid with nicotine regularly ^{c,j}	_	_	_	_	_	_	_	_	_	_	30.0	31.3	39.2	48.6	+9.4 ss
/ape marijuana occasionally ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	23.7	_
/ape marijuana regularly ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	35.5	_
Jse JUUL occasionally k	_	_	_	_	_	_	_	_	_	_	_	_	22.0	25.4	+3.4
Jse JUUL regularly ^k	_	_	_	_	_	_	_	_	_	_	_	_	36.5	43.4	+6.9 ss
Smoke little cigars or cigarillos regularly ^c	_	_	_	_	_	_	_	31.0	34.9	35.3	34.0	34.9	45.3	46.6	+1.2
Jse smokeless tobacco regularly	46.7	48.0	44.7	43.7	45.7	42.9	40.0	39.9	42.5	43.0	40.7	41.0	45.4	44.4	-1.1
ake dissolvable tobacco regularly c	_	_	_	_	_	33.3	31.3	32.0	35.6	34.2	32.7	33.2	41.7	37.2	-4.4
ake snus regularly ^c	_	_	_	_	_	41.0	38.9	38.8	41.8	39.9	38.1	39.8	43.2	40.7	-2.4
ake steroids i	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Approximate weighted N =	16,100	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	7,000	4,800	

TABLE 11 (cont.)

Trends in **Harmfulness** of Drugs as Perceived by 10th Graders

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates

for the two most recent years is due to rounding. '‡' indicates that the question changed the following year.

aAnswer alternatives were: (1) No risk, (2) Slight risk, (3) Moderate risk, (4) Great risk, and (5) Can't say, drug unfamiliar.

^bBeginning in 2012 data based on two thirds of N indicated.

^cData based on one third of N indicated.

^dBeginning in 1997, data based on two thirds of N indicated.

Data based on one of two forms in 1993–1996; N is one half of N indicated. Beginning in 1997, data based on one third of N indicated due to changes in questionnaire forms.

Beginning in 2014 data are based on the revised question which included "Molly," N is one third of N indicated in 2014 and two thirds of N indicated in 2015. 2014 and 2015 data are not comparable to earlier years due to the revision of the question text.

⁹Beginning in 1999, data based on two thirds of N indicated due to changes in questionnaire forms.

^hE-cigarette data based on two thirds of N indicated. Little cigars or cigarillos data based on one third N indicated.

Data based on two forms in 1991 and 1992. Data based on one of two forms in 1993 and 1994; N is one half of N indicated.

Percentages for all years reported here include respondents who replied "can't say, drug unfamiliar" in the denominator. The percentage for 2017 published in late 2017 and early

2018 did not include these respondents in the denominator.

^kData based on two thirds of N indicated

In 2019 a randomly-selected half of the respondents answered survey questions using electronic tablets and the other half used paper and pencil. Drug prevalence estimates were the same across survey mode (documented here), while questions on the other topics were subject to survey mode effects in some cases. All 2019 drug prevalence estimates combine responses from electronic tablets and paper. For estimates other than drug prevalence we use the mode that allows us direct comparison of the latest year and the penultimate year of estimates without mode effects. Specifically, we report tablet-based 2019 estimates for outcomes with 2020 estimates (when all respondents used tablets) and we report paper-based 2019 respondents when 2019 estimates are the most recent reported (for direct comparison with 2018 estimates, when all respondents used paper).

TABLE 12
Trends in Harmfulness of Drugs as Perceived by 12th Graders

							P	ercentag	e saying	great ris	k ^a						
How much do you think people risk harming themselves (physically or in other ways), if they	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	1984	<u>1985</u>	<u>1986</u>	1987	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>
Try marijuana once or twice	15.1	11.4	9.5	8.1	9.4	10.0	13.0	11.5	12.7	14.7	14.8	15.1	18.4	19.0	23.6	23.1	27.1
Smoke marijuana occasionally	18.1	15.0	13.4	12.4	13.5	14.7	19.1	18.3	20.6	22.6	24.5	25.0	30.4	31.7	36.5	36.9	40.6
Smoke marijuana regularly	43.3	38.6	36.4	34.9	42.0	50.4	57.6	60.4	62.8	66.9	70.4	71.3	73.5	77.0	77.5	77.8	78.6
Try synthetic marijuana once or twice	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take synthetic marijuana occasionally	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try LSD once or twice	49.4	45.7	43.2	42.7	41.6	43.9	45.5	44.9	44.7	45.4	43.5	42.0	44.9	45.7	46.0	44.7	46.6
Take LSD regularly	81.4	80.8	79.1	81.1	82.4	83.0	83.5	83.5	83.2	83.8	82.9	82.6	83.8	84.2	84.3	84.5	84.3
Try PCP once or twice	_	_	_	_	_	_	_	_	_	_	_	_	55.6	58.8	56.6	55.2	51.7
Try ecstasy (MDMA, Molly) once or twice ^b	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try salvia once or twice ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take salvia occasionally	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try cocaine once or twice	42.6	39.1	35.6	33.2	31.5	31.3	32.1	32.8	33.0	35.7	34.0	33.5	47.9	51.2	54.9	59.4	59.4
Take cocaine occasionally	_	_	_	_	_	_	_	_	_	_	_	54.2	66.8	69.2	71.8	73.9	75.5
Take cocaine regularly	73.1	72.3	68.2	68.2	69.5	69.2	71.2	73.0	74.3	78.8	79.0	82.2	88.5	89.2	90.2	91.1	90.4
Try crack once or twice	_	_	_	_	_	_	_	_	_	_	_	_	57.0	62.1	62.9	64.3	60.6
Take crack occasionally	_	_	_	_	_	_	_	_	_	_	_	_	70.4	73.2	75.3	80.4	76.5
Take crack regularly	_	_	_	_	_	_	_	_	_	_	_	_	84.6	84.8	85.6	91.6	90.1
Try cocaine powder once or twice	_	_	_	_	_	_	_	_	_	_	_	_	45.3	51.7	53.8	53.9	53.6
Take cocaine powder occasionally	_	_	_	_	_	_	_	_	_	_	_	_	56.8	61.9	65.8	71.1	69.8
Take cocaine powder regularly	- 60.1	-	— EF 0	 52.0	- 50.4	 	- 52.9	E4.4	 50.8	40.0	- 47.3	45.0	81.4	82.9 54.0	83.9	90.2 55.4	88.9
Try heroin once or twice	75.6	58.9 75.6	55.8 71.9	52.9 71.4	70.9	52.1 70.9	52.9 72.2	51.1 69.8	71.8	49.8 70.7	47.3 69.8	45.8 68.2	53.6 74.6	73.8	53.8 75.5	76.6	55.2 74.9
Take heroin occasionally	87.2	88.6	86.1	86.6	70.9 87.5	86.2	87.5	86.0	86.1	87.2	86.0	87.1	88.7	88.8	89.5	90.2	89.6
Take heroin regularly Try heroin once or twice without using a needle	07.2	00.0	00.1	00.0	67.5	00.2	67.5	80.0	00.1	07.2	80.0	07.1	00.7	00.0	69.5	90.2	09.0
Take heroin occasionally without using a needle	_	_			_		_	_								_	
Try any narcotic other than heroin (codeine, Vicodin,			_	_		_					_				_	_	
OxyContin, Percocet, etc.) once or twice	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take any narcotic other than heroin occasionally	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take any narcotic other than heroin regularly	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try amphetamines once or twice ^d	35.4	33.4	30.8	29.9	29.7	29.7	26.4	25.3	24.7	25.4	25.2	25.1	29.1	29.6	32.8	32.2	36.3
Take amphetamines regularly ^d	69.0	67.3	66.6	67.1	69.9	69.1	66.1	64.7	64.8	67.1	67.2	67.3	69.4	69.8	71.2	71.2	74.1
Try Adderall once or twice ^e	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try Adderall occasionally ^e	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try crystal methamphetamine (ice) once or twice	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	61.6
Try bath salts (synthetic stimulants)																	
once or twice	-	-	-	-	-	_	-	-	-	-	_	-	-	-	_	_	_
Take bath salts (synthetic stimulants)																	
occasionally	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try sedatives (barbiturates) once or twice f	34.8	32.5	31.2	31.3	30.7	30.9	28.4	27.5	27.0	27.4	26.1	25.4	30.9	29.7	32.2	32.4	35.1
Take sedatives (barbiturates) regularly ^f	69.1	67.7	68.6	68.4	71.6	72.2	69.9	67.6	67.7	68.5	68.3	67.2	69.4	69.6	70.5	70.2	70.5
Try one or two drinks of an alcoholic beverage																	
(beer, wine, liquor)	5.3	4.8	4.1	3.4	4.1	3.8	4.6	3.5	4.2	4.6	5.0	4.6	6.2	6.0	6.0	8.3	9.1
Take one or two drinks nearly every day	21.5	21.2	18.5	19.6	22.6	20.3	21.6	21.6	21.6	23.0	24.4	25.1	26.2	27.3	28.5	31.3	32.7
Take four or five drinks nearly every day	63.5	61.0	62.9	63.1	66.2	65.7	64.5	65.5	66.8	68.4	69.8	66.5	69.7	68.5	69.8	70.9	69.5
Have five or more drinks once or twice	07.0	07.0	0	0.5	0	05.0	00.0	00.0	00.0	44.7	40.0	00.4	44.0	40.0	4.0	47.4	40.0
each weekend	37.8	37.0	34.7	34.5	34.9	35.9	36.3	36.0	38.6	41.7	43.0	39.1	41.9	42.6	44.0	47.1	48.6
Smoke one or more packs of cigarettes per day	51.3	56.4	58.4	59.0	63.0	63.7	63.3	60.5	61.2	63.8	66.5	66.0	68.6	68.0	67.2	68.2	69.4
Use electronic cigarettes (e-cigarettes)																	
regularly ⁹	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vape an e-liquid with nicotine occasionally ^g Vape an e-liquid with nicotine regularly ^g	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Use JULI regularly	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Use JUUL regularly	_	_			_	_	_	_	_	_		_	_	_	_	_	
Smoke little cigars or cigarillos regularly Use smokeless tobacco regularly	_	_	_	_	_	_	_	_	_	_	_	25.8	30.0	33.2	32.9	34.2	37.4
Take steroids												20.0	30.0	33.2	63.8	69.9	65.6
Approximate weighted N =	2,804	2,918	3,052	3,770	3,250	3,234	3,604	3,557	3,305	3,262	3,250	3,020	3,315	3,276	2,796	2,553	2,549
reproximate weighted iv =	2,304	2,510	0,002	5,.70	0,200	0,207	3,304	0,007	0,000	0,202	0,200	0,020	0,010	0,270	2,.00	2,500	2,040

TABLE 12 (cont.) Trends in <u>Harmfulness</u> of Drugs as Perceived by <u>12th Graders</u>

Try marijuana once or twice 24.5 21.9 19.5 16.3 15.6 14.9 16.7 15.7 13.7 15.3 16.1 16.1 15.9 16.1 Smoke marijuana occasionally 39.6 35.6 30.1 25.6 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.8 25.0 25.4 25.8 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	2006 2007 17.8 18.6 25.9 27.1 57.9 54.8
Try marijuana once or twice 24.5 21.9 19.5 16.3 15.6 14.9 16.7 15.7 13.7 15.3 16.1 16.1 15.9 16.1 Smoke marijuana occasionally 39.6 35.6 30.1 25.6 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.8 25.9 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 24.9 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 24.9 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 24.9 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 24.1 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 24.1 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 24.1 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.4 24.1 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 25.2 25.0 25.2 26.5 25.2 26.5 25.2 26.5 25.2 26.5 25.2 26.5 25.2 26.5 25.2 26.5 25.2 26.5 25.2 26.5 25.2 26.2 25.2 25	17.8 18.6 25.9 27.1 57.9 54.8 ————————————————————————————————————
Smoke marijuana occasionally 39.6 35.6 30.1 25.6 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.8 25.9 24.7 24.4 23.9 23.4 23.5 23.2 26.6 25.4 25.8 25.9 24.7 24.8 25.8 25.0 <	25.9 27.1 57.9 54.8 — — — — — — — — — — — — — — — — — — —
Smoke marijuana regularly 76.5 72.5 65.0 60.8 59.9 58.1 58.5 57.4 58.3 57.4 58.0 58.0 57.4 58.0 57.4 58.0 58.	57.9 54.8 — — — — — — — — — — — — — — — — — — —
Try synthetic marijuana occasionally — — — — — — — — — — — — — — — — — —	36.1 37.0 69.3 67.3 47.0 48.0 59.3 58.1
Take synthetic marijuana occasionally	69.3 67.3 47.0 48.0 59.3 58.1 — 52.5 51.3 69.8 68.8 84.6 83.3 47.8 67.8 62.8 82.8 82.8 45.1 61.9 59.9 82.1 81.5
Try LSD once or twice 42.3 39.5 38.8 36.4 36.2 34.7 37.4 34.9 34.3 33.2 36.7 36.2 36.2 36.5 36.4 LSD regularly 81.8 79.4 79.1 78.1 77.8 76.6 76.5 76.1 75.9 74.1 73.9 72.3 70.2 69.9 67.5 Try PCP once or twice 54.8 50.8 51.5 49.1 51.0 48.8 46.8 44.8 45.0 46.2 48.3 45.2 47.1 46.6 47.5 Try salvia once or twice 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	69.3 67.3 47.0 48.0 59.3 58.1 — 52.5 51.3 69.8 68.8 84.6 83.3 47.8 67.8 62.8 82.8 82.8 45.1 61.9 59.9 82.1 81.5
Take LSD regularly 81.8 79.4 79.1 78.1 77.8 76.6 76.5 76.1 75.9 74.1 73.9 72.3 70.2 69.9 77.9 CPC once or twice 54.8 50.8 51.5 49.1 51.0 48.8 46.8 44.8 45.0 46.2 48.3 45.2 47.1 46.6 47.9 CPC once or twice Try ecstasy (MDMA, Molly) once or twice	69.3 67.3 47.0 48.0 59.3 58.1 — 52.5 51.3 69.8 68.8 84.6 83.3 47.8 67.8 62.8 82.8 82.8 45.1 61.9 59.9 82.1 81.5
Try PCP once or twice 54.8 50.8 51.5 49.1 51.0 48.8 46.8 44.8 45.0 46.2 48.3 45.2 47.1 46.6 47.1	47.0 48.0 59.3 58.1 — — — — — — — — — — — — — — — — — — —
Try sestasy (MDMA, Molly) once or twice bank and the session of the sestion of the session of the sestion of th	59.3 58.1 — — — — — 52.5 51.3 69.8 68.8 44.6 83.3 47.8 63.6 64.8 63.6 64.8 62.8 82.6 45.8 45.1 61.9 59.9 82.1 81.5
Try salvia once or twice 6 — — — — — — — — — — — — — — — — — —	52.5 51.3 69.8 68.8 84.6 83.3 47.8 47.3 64.8 63.6 82.8 82.6 45.8 45.1 61.9 59.9 82.1 81.5
Take salvia occasionally — — — 57.2 53.7 54.2 53.6 54.6 52.1 51.1 50.7 51.2 51.0 50.7 50.5 51.2 51.0 50.7 51.2 51.0 50.7 50.5 51.2 51.0 50.7 51.2 51.0 50.7 51.2 51.0 50.7 51.2 51.0 50.7 51.2 51.0 50.7 51.2 51.0 50.7 51.2 51.0 50.7 51.2 51.0 50.7 51.2 51.0 50.7 51.2 51.0 50.7 51.2 51.0 50.7 51.2 51.0 50.7 51.2 51.0 50.7 51.2 51.0 50.7 51.2 51.0 50.7 51.2 51.0 50.7	69.8 68.8 84.6 83.3 47.8 47.3 64.8 63.6 82.8 82.6 45.8 45.1 61.9 59.9 82.1 81.5
Try cocaine once or twice 56.8 57.6 57.2 53.7 54.2 53.6 54.6 52.1 51.1 50.7 51.2 51.0 50.7 50.5 51.0 50.7 50.5 51.0 50.7 50.5 51.0 50.7 51.0 50.7 51.0 50.7 50.5 51.0 50.7 51.0 51.0 51.0 51.0 51.0 51.0 51.0 51.0	69.8 68.8 84.6 83.3 47.8 47.3 64.8 63.6 82.8 82.6 45.8 45.1 61.9 59.9 82.1 81.5
Take cocaine occasionally 75.1 73.3 73.7 70.8 72.1 72.4 70.1 70.1 69.5 69.9 68.3 69.1 67.2 66.7 66.7 67.3 68.3 87.1 86.3 85.8 86.2 84.1 84.5 83.0 82.2 82.8 87.1 86.3 85.8 86.2 84.1 84.5 83.0 82.2 82.8 87.1 86.7 87.2 86.7 87.2 88.2 88.2	69.8 68.8 84.6 83.3 47.8 47.3 64.8 63.6 82.8 82.6 45.8 45.1 61.9 59.9 82.1 81.5
Take cocaine regularly 90.2 90.1 89.3 87.9 88.3 87.1 86.3 85.8 86.2 84.1 84.5 83.0 82.2 82.8 82.7 Try crack once or twice 62.4 57.6 58.4 54.6 56.0 54.0 52.2 48.2 48.4 49.4 50.8 47.3 47.8 48.4 48.4 49.4 50.8 66.6 64.0 64.5 63.8 67.3 68.7 67.3 65.8 65.4 65.6 64.0 64.5 63.8 67.3 68.7 67.3 65.8 65.4 65.0 64.0 64.5 63.8 67.3 68.7 67.3 65.8 65.4 65.6 64.0 64.5 63.8 67.3 68.7 67.3 65.8 65.4 65.0 64.0 64.5 63.8 68.2 85.3 85.4 85.3 85.8 84.1 82.2 83.5 83.3 85.8 84.1 82.5 83.5 83.3 85.8 84.1	84.6 83.3 47.8 47.3 64.8 63.6 82.8 82.6 45.8 45.1 61.9 59.9 82.1 81.5
Try crack once or twice 62.4 57.6 58.4 57.6 58.4 54.6 56.0 54.0 52.2 48.2 48.4 49.4 50.8 47.3 47.8 48.4 48.4 Fake crack occasionally 76.3 73.9 73.8 72.8 71.4 70.3 68.7 67.3 65.8 65.4 65.6 64.0 64.5 63.8 67.3 65.8 65.4 65.0 65.0 64.0 64.5 63.8 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	47.8 47.3 64.8 63.6 82.8 82.6 45.8 45.1 61.9 59.9 82.1 81.5
Take crack occasionally 76.3 73.9 73.8 72.8 71.4 70.3 68.7 67.3 65.8 65.4 65.6 64.0 64.5 63.8 65.4 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	64.8 63.6 82.8 82.6 45.8 45.1 61.9 59.9 82.1 81.5
Take crack regularly 89.3 87.5 89.6 88.6 88.0 86.2 85.3 85.4 85.3 85.8 84.1 83.2 83.5 83.3 87.5 89.6 89.6 89.6 89.6 89.6 89.6 89.6 89.6	82.8 82.6 45.8 45.1 61.9 59.9 82.1 81.5
Try cocaine powder once or twice 57.1 53.2 55.4 52.0 53.2 51.4 48.5 46.1 47.0 49.0 49.5 46.2 45.4 46.2	45.8 45.1 61.9 59.9 82.1 81.5
	61.9 59.9 82.1 81.5
Take cocaine powder occasionally 70.8 68.6 70.6 69.1 68.8 67.7 65.4 64.2 64.7 63.2 64.4 61.4 61.6 60.8 (82.1 81.5
Take cocaine powder regularly 88.4 87.0 88.6 87.8 86.8 86.0 84.1 84.6 85.5 84.4 84.2 82.3 81.7 82.7 8	59.1 58.4
Try heroin once or twice 50.9 50.7 52.8 50.9 52.5 56.7 57.8 56.0 54.2 55.6 56.0 58.0 56.6 55.2 50.2 50.2 50.2 50.2 50.2 50.2 50.2	
Take heroin occasionally 74.2 72.0 72.1 71.0 74.8 76.3 76.9 77.3 74.6 75.9 76.6 78.5 75.7 76.0 77.0 74.8 76.3 76.9 77.3 74.6 75.9 76.6 78.5 75.7 76.0 77.0 74.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75	79.1 76.2
Take heroin regularly 89.2 88.3 88.0 87.2 89.5 88.9 89.1 89.9 89.2 88.3 88.5 89.3 86.8 87.5 8	89.7 87.8
Try heroin once or twice without using a needle — — 55.6 58.6 60.5 59.6 58.5 61.6 60.7 60.6 58.9 61.2 60.5 60.5	62.6 60.2
Take heroin occasionally without using a needle — — 71.2 71.0 74.3 73.4 73.6 74.7 74.4 74.7 73.0 76.1 73.3 73.4 73.6 74.7 74.4 74.7 75.0 76.1 75.3	76.2 73.9
Try any narcotic other than heroin (codeine, Vicodin,	
OxyContin, Percocet, etc.) once or twice	
Take any narcotic other than heroin occasionally — — — — — — — — — — — — — — — — — —	
Take any narcotic other than heroin regularly — — — — — — — — — — — — — — — — — — —	
Try amphetamines once or twice ^d 32.6 31.3 31.4 28.8 30.8 31.0 35.3 32.2 32.6 34.7 34.4 36.8 35.7 37.7	39.5 41.3
Take amphetamines regularly d 72.4 69.9 67.0 65.9 66.8 66.0 67.7 66.4 66.3 67.1 64.8 65.6 63.9 67.1 (68.1 68.1
Try Adderall once or twice e	
Try Adderall occasionally ^e	
Try crystal methamphetamine (ice) once or twice 61.9 57.5 58.3 54.4 55.3 54.4 52.7 51.2 51.3 52.7 53.8 51.2 52.4 54.6	59.1 60.2
Try bath salts (synthetic stimulants)	
once or twice	
Take bath salts (synthetic stimulants)	
occasionally — — — — — — — — — —	
	28.0 27.9
	56.8 55.1
Try one or two drinks of an alcoholic beverage	
	0.2 10.5
	9.3 10.5
	25.3 25.1
	63.4 61.8
Have five or more drinks once or twice	
each weekend 49.0 48.3 46.5 45.2 49.5 43.0 42.8 43.1 42.7 43.6 42.2 43.5 43.6 45.0	47.6 45.8
Smoke one or more packs of cigarettes per day 69.2 69.5 67.6 65.6 68.2 68.7 70.8 70.8 70.8 73.1 73.3 74.2 72.1 74.0 76.5	77.6 77.3
Use electronic cigarettes (e-cigarettes)	
regularly ⁹	
Vape an e-liquid with nicotine occasionally ⁹	
Vape an e-liquid with nicotine regularly ⁹	
Vape marijuana occasionally	
Vape marijuana regularly ¹	
Use JUUL occasionally	
Use JUUL regularly	_
Smoke little cigars or cigarillos regularly	
	45.9 44.0
	60.2 57.4
Approximate weighted N = 2,684 2,759 2,591 2,603 2,449 2,579 2,564 2,306 2,130 2,173 2,198 2,466 2,491 2,512 2	2,407 2,450

TABLE 12 (cont.) Trends in <u>Harmfulness</u> of Drugs as Perceived by <u>12th Graders</u>

					Pe	ercentag	e saying	great ris	k ^a					
How much do you think people risk harming														2019 – 2020
themselves (physically or in other ways), if they	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 i	2020	<u>change</u>
Try marijuana once or twice	17.4	18.5	17.1	15.6	14.8	14.5	12.5	12.3	12.9	11.9	12.1	10.7	§	_
Smoke marijuana occasionally	25.8	27.4	24.5	22.7	20.6	19.5	16.4	15.8	17.1	14.1	14.3	13.5	§	_
Smoke marijuana regularly	51.7	52.4	46.8	45.7	44.1	39.5	36.1	31.9	31.1	29.0	26.7	30.5	§	_
Try synthetic marijuana once or twice	_	_	_	_	23.5	25.9	32.5	33.0	35.6	33.0	30.4	28.4	§	_
Take synthetic marijuana occasionally	_	_	_	_	32.7	36.2	39.4	40.9	43.9	40.0	37.1	35.4	§	_
Try LSD once or twice	33.9	37.1	35.6	34.7	33.1	34.9	35.5	33.2	31.7	30.0	29.0	28.3	§	_
Take LSD regularly	63.6	67.8	65.3	65.5	66.8	66.8	62.7	60.7	58.2	56.1	55.2	57.9	§	_
Try PCP once or twice	47.4	49.7	52.4	53.9	51.6	53.9	53.8	54.4	55.1	53.6	51.7	52.6	§	_
Try ecstasy (MDMA, Molly) once or twice ^b	57.0	53.3	50.6	49.0	49.4	47.5‡	47.8	49.5	48.8	49.1	48.2	46.3	§	_
Try salvia once or twice ^c	_	_	39.8	36.7‡	13.8	12.9	14.1	13.1	13.0	10.2	9.8	10.0	§	_
Take salvia occasionally	_	_	_	_	23.1	21.3	20.0	17.6	16.3	13.8	12.0	12.7	§	_
Try cocaine once or twice	50.3	53.1	52.8	54.0	51.6	54.4	53.7	51.1	52.7	49.5	47.9	47.7	§	_
Take cocaine occasionally	67.1	71.4	67.8	69.7	69.0	70.2	68.1	66.3	68.6	64.6	62.1	64.2	§	_
Take cocaine regularly	80.7	84.4	81.7	83.8	82.6	83.3	80.6	79.1	78.3	74.9	75.2	74.7	§	_
Try crack once or twice	47.5	48.4	50.2	51.7	52.0	55.6	54.5	53.6	53.9	51.6	51.3	50.2	_	_
Take crack occasionally	65.2	64.7	64.3	66.2	66.5	69.5	68.5	67.8	66.2	65.3	64.4	62.7	_	_
Take crack regularly	83.4	84.0	83.8	83.9	84.0	85.4	82.0	81.2	81.9	79.8	79.8	79.0	_	
Try cocaine powder once or twice	45.1	46.5	48.2	48.0	48.1	49.9	49.9	49.0	49.3	45.1	44.9	45.4	_	_
Take cocaine powder occasionally	61.6	62.6	62.6	64.2	62.6	65.4	64.8	62.8	62.9	60.1	59.8	59.9	_	_
Take cocaine powder regularly	82.5	83.4	81.8	83.3	83.3	83.9	81.5	80.1	80.7	78.8	77.6	77.4	_	_
Try heroin once or twice	55.5	59.3	58.3	59.1	59.4	61.7	62.8	64.0	64.5	63.0	61.8	62.6	§	_
Take heroin occasionally	75.3	79.7	74.8	77.2	78.0	78.2	77.9	78.0	78.7	74.6	75.0	75.7	§	_
Take heroin regularly	86.4	89.9	85.5	87.9	88.6	87.6	85.7	84.8	85.4	83.3	81.4	81.2	§	_
Try heroin once or twice without using a needle	60.8	61.5	63.8	61.1	63.3	64.5	65.3	62.5	66.1	64.6	63.1	60.5	§	_
Take heroin occasionally without using a needle	73.2	74.8	76.2	74.7	76.1	76.4	73.6	71.1	74.6	72.7	69.6	69.4	§	_
Try any narcotic other than heroin (codeine, Vicodin,														
OxyContin, Percocet, etc.) once or twice	_	_	40.4	39.9	38.4	43.1	42.7	44.1	43.6	42.0	43.2	45.0	§	_
Take any narcotic other than heroin occasionally	_	_	54.3	54.8	53.8	57.3	59.0	58.5	55.7	55.5	56.7	56.7	§	_
Take any narcotic other than heroin regularly	_	_	74.9	75.5	73.9	75.8	72.7	73.9	72.4	70.8	71.6	73.1	§	_
Try amphetamines once or twice ^a	39.2	41.9	40.6‡	34.8	34.3	36.3	34.1	34.0	31.1	31.9	29.2	29.7	§	_
Take amphetamines regularly d	65.4	69.0	63.6‡	58.7	60.0	59.5	55.1	54.3	51.3	50.0	51.1	48.4	§	_
Try Adderall once or twice e	_	_	33.3	31.2	27.2	31.8	33.6	34.3	32.5	32.0	34.0	34.3	§	_
Try Adderall occasionally ^e	-	-	41.6	40.8	35.3	38.8	41.5	41.6	40.9	40.6	40.1	41.8	§	_
Try crystal methamphetamine (ice) once or twice	62.2	63.4	64.9	66.5	67.8	72.2	70.2	70.0	70.0	69.3	67.1	67.1	§	_
Try bath salts (synthetic stimulants)					00.0	50.5	50.0	c7 c	54.0	54.0	50.7			
once or twice	_	_	_	_	33.2	59.5	59.2	57.5	54.9	51.3	50.7	_	_	_
Take bath salts (synthetic stimulants)					45.0	60.0	60.0	67.4	64.0	C1 E	60.7			
occasionally	- OF C	- 20.6	-	27.0	45.0	69.9	68.8	67.4	64.2	61.5	60.7	— 2F.2	_	_
Try sedatives (barbiturates) once or twice ^f Take sedatives (barbiturates) regularly ^f	25.9	29.6 54.7	28.0	27.8	27.8	29.4	29.6	28.9	27.4 47.0	26.9	26.3	25.2	§ 2	_
Try one or two drinks of an alcoholic beverage	50.2	54.7	52.1	52.4	53.9	53.3	50.5	50.6	47.0	44.0	45.1	45.0	§	_
(beer, wine, liquor)	10.0	9.4	10.8	9.4	8.7	9.9	8.6	10.3	9.5	9.3	10.2	9.7	e	
Take one or two drinks nearly every day	24.2	23.7	25.4	9.4 24.6	23.7	23.1	21.1	21.5	9.5 21.6	9.3 21.6	22.8	9.7 21.0	§ &	_
Take one or two drinks nearly every day Take four or five drinks nearly every day	60.8	62.4	25.4 61.1	62.3	63.6	62.4	61.2	21.5 59.1	59.1	58.7	59.1	59.7	§ &	_
Have five or more drinks once or twice	00.0	02.4	01.1	02.3	03.0	02.4	01.2	J9. I	J9. I	56.7	Ja. I	59.7	§	_
each weekend	46.3	48.0	46.3	47.6	48.8	45.8	45.4	46.9	48.4	45.7	44.7	46.4	§	
Smoke one or more packs of cigarettes per day	74.0	74.9	75.0	77.7	78.2	78.2	78.0	75.9	76.5	74.9	73.9	75.6	§ §	
Use electronic cigarettes (e-cigarettes)	74.0	74.5	13.0	11.1	10.2	10.2	70.0	13.8	70.0	14.5	13.8	73.0	3	_
regularly ^g							14.2	16.2	18.2	16.1	18.0			
Vape an e-liquid with nicotine occasionally ^g							14.2	10.2	10.2	16.4	15.8	24.6	26.7	+2.1
Vape an e-liquid with nicotine occasionally		_	_	_	_	_	_	_	_	27.0	27.7	40.5	49.9	+9.3 sss
Vape marijuana occasionally h										21.0	21.1	40.5	23.2	- 0.0 555
Vape marijuana regularly ^h													39.4	
Use JUUL occasionally											_	16.8	39.4 §	
Use JUUL regularly		_	_	_	_	_	_	_	_	_		32.9	§	_
Smoke little cigars or cigarillos regularly				_	_		38.3	39.7	39.5	38.2	42.5	41.3	3	
Use smokeless tobacco regularly	42.9	40.8	41.2	42.6	44.3	41.6	40.7	38.5	38.1	38.4	40.2	39.9		
Take steroids	60.8	60.2	59.2	61.1	58.6	54.2	54.6	54.4	54.5	49.1	50.1	50.8	<u> </u>	
Tuno dicroido	00.0	00.2	35.2	01.1	30.0	04.2	J4.0	J4.4	04.0	40.1	50.1	30.0	3	

Table continued on next page.

Approximate weighted N = 2,389 2,290 2,440 2,408 2,331 2,098 2,067 2,174 1,988 1,919 1,976 1,116 568

TABLE 12 (cont.) Trends in Harmfulness of Drugs as Perceived by 12th Graders

Source. The Monitoring the Future study, the University of Michigan.

Notes Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available.' ‡' indicates that the question changed the following year. See relevant footnote for that drug. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

\$This estimate is not presented in 2020 due to small sample size. The survey question for this estimate appears on a randomly-selected 1/6 of the questionnaires, and the number of responses is uniquely small in 2020 when the COVID-19 pandemic halted MTF data collection prematurely and the resulting sample size was only 25% of the target.

^aAnswer alternatives were: (1) No risk, (2) Slight risk, (3) Moderate risk, (4) Great risk, and (5) Can't say, drug unfamiliar

b Beginning in 2014 data are based on the revised question which included "Molly." 2014 and 2015 data are not comparable to earlier years due to the revision of the question text.

^cIn 2011 the question on perceived risk of using salvia once or twice appeared at the end of a form. In 2012 the question was moved to an earlier section of the same form. A question on perceived risk of using salvia occasionally was also added following the question on perceived risk of trying salvia once or twice. These changes likely explain the discontinuity in the 2012 results.

^dIn 2011 the list of examples was changed from uppers, pep pills, bennies, speed to uppers, speed, Adderall, Ritalin, etc. These changes likely explain the discontinuity in the 2011 results.

^eIn 2014 "(without a doctor's orders)" added to the questions on perceived risk of using Adderall.

In 2004 the question text was changed from barbiturates to sedatives/barbiturates and the list of examples was changed from downers, goofballs, reds, yellows, etc. to just downers. These changes likely explain the discontinuity in the 2004 results.

⁹Based on two of six forms in 2017 and 2018; N is two times the N indicated. Beginning in 2019, data based on three of six forms; N is three times the N indicated.

 $^{\rm h}$ Data based on three of six forms; N is three times the N indicated.

In 2019 a randomly-selected half of the respondents answered survey questions using electronic tablets and the other half used paper and pencil. Drug prevalence estimates were the same across survey mode (documented here), while questions on the other topics were subject to survey mode effects in some cases. All 2019 drug prevalence estimates combine responses from electronic tablets and paper. For estimates other than drug prevalence we use the mode that allows us direct comparison of the latest year and the penultimate year of estimates without mode effects. Specifically, we report tablet-based 2019 estimates (when all respondents used tablets) and we report paper-based 2019 respondents when 2019 estimates are the most recent reported (for direct comparison with 2018 estimates, when all respondents used paper).

TABLE 13
Trends in <u>Disapproval</u> of Drug Use in <u>Grade 8</u>

	Percentage who disapprove or strongly disapprove ^a															
Do you disapprove of people who	<u>1991</u>	1992	1993	1994	<u>1995</u>	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Try marijuana once or twice ^b	84.6	82.1	79.2	72.9	70.7	67.5	67.6	69.0	70.7	72.5	72.4	73.3	73.8	75.9	75.3	76.0
Smoke marijuana occasionally ^b	89.5	88.1	85.7	80.9	79.7	76.5	78.1	78.4	79.3	80.6	80.6	80.9	81.5	83.1	82.4	82.2
Smoke marijuana regularly ^b	92.1	90.8	88.9	85.3	85.1	82.8	84.6	84.5	84.5	85.3	84.5	85.3	85.7	86.8	86.3	86.1
Try inhalants once or twice ^c	84.9	84.0	82.5	81.6	81.8	82.9	84.1	83.0	85.2	85.4	86.6	86.1	85.1	85.1	84.6	83.4
Take inhalants regularly ^c	90.6	90.0	88.9	88.1	88.8	89.3	90.3	89.5	90.3	90.2	90.5	90.4	89.8	90.1	89.8	89.0
Take LSD once or twice d	_	_	77.1	75.2	71.6	70.9	72.1	69.1	69.4	66.7	64.6	62.6	61.0	58.1	58.5	53.9
Take LSD regularly d	_	_	79.8	78.4	75.8	75.3	76.3	72.5	72.5	69.3	67.0	65.5	63.5	60.5	60.7	55.8
Try ecstasy (MDMA, Molly) once or twice ^e	_	_	_	_	_	_	_	_	_	_	69.0	74.3	77.7	76.3	75.0	66.7
Take ecstasy (MDMA, Molly) occasionally e	_	_	_	_	_	_	_	_	_	_	73.6	78.6	81.3	79.4	77.9	69.8
Try cocaine once or twice ^d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Take cocaine occasionally ^d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Try crack once or twice c	91.7	90.7	89.1	86.9	85.9	85.0	85.7	85.4	86.0	85.4	86.0	86.2	86.4	87.4	87.6	87.2
Take crack occasionally ^c	93.3	92.5	91.7	89.9	89.8	89.3	90.3	89.5	89.9	88.8	89.8	89.6	89.8	90.3	90.5	90.0
Try cocaine powder once or twice ^c	91.2	89.6	88.5	86.1	85.3	83.9	85.1	84.5	85.2	84.8	85.6	85.8	85.6	86.8	87.0	86.5
Take cocaine powder occasionally ^c	93.1	92.4	91.6	89.7	89.7	88.7	90.1	89.3	89.9	88.8	89.6	89.9	89.8	90.3	90.7	90.2
Try heroin once or twice without using a needle ^d	_	_	_	_	85.8	85.0	87.7	87.3	88.0	87.2	87.2	87.8	86.9	86.6	86.9	87.2
Take heroin occasionally without using					00.0	00.0	0	01.0	00.0	01.2	02	01.0	00.0	00.0	00.0	01.2
a needle ^d	_	_	_	_	88.5	87.7	90.1	89.7	90.2	88.9	88.9	89.6	89.0	88.6	88.5	88.5
Try one or two drinks of an alcoholic																
beverage (beer, wine, liquor) b	51.7	52.2	50.9	47.8	48.0	45.5	45.7	47.5	48.3	48.7	49.8	51.1	49.7	51.1	51.2	51.3
Take one or two drinks nearly every day ^b	82.2	81.0	79.6	76.7	75.9	74.1	76.6	76.9	77.0	77.8	77.4	78.3	77.1	78.6	78.7	78.7
Have five or more drinks once or twice																
each weekend ^b	85.2	83.9	83.3	80.7	80.7	79.1	81.3	81.0	80.3	81.2	81.6	81.9	81.9	82.3	82.9	82.0
Smoke one to five cigarettes per day e	_	_	_	_	_	_	_	_	75.1	79.1	80.4	81.1	81.4	83.1	82.9	83.5
Smoke one or more packs of cigarettes																
per day ^f	82.8	82.3	80.6	78.4	78.6	77.3	80.3	80.0	81.4	81.9	83.5	84.6	84.6	85.7	85.3	85.6
Use electronic cigarettes (e-cigarettes)																
regularly ^e	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vape an e-liquid with nicotine occasionally e,h	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vape an e-liquid with nicotine regularly ^{e,h}	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Vape marijuana occasionally ^e	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vape marijuana regularly ^e	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Use JUUL occasionally ^e	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Use JUUL regularly ^e	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Use smokeless tobacco regularly ^b	79.1	77.2	77.1	75.1	74.0	74.1	76.5	76.3	78.0	79.2	79.4	80.6	80.7	81.0	82.0	81.0
Take steroids ⁹	89.8	90.3	89.9	87.9	_	_	_	_	_	_	_	_	_	_	_	_
Approximate weighted N =	17,400	18,500	18,400	17,400	17,600	18,000	18,800	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500

TABLE 13 (cont.) Trends in <u>Disapproval</u> of Drug Use in <u>Grade 8</u>

Percentage who disapprove or strongly disapprove a	1
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				-	Percenta	ge who d	disapprov	ve or stro	ongly dis	approve	a .				
Do you disapprove of people who	2007	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2019 ⁱ	2020	2019–2020 <u>change</u>
Try marijuana once or twice ^b	78.7	76.6	75.3	73.5	74.4	75.1	72.0	70.5	70.3	70.1	67.3	64.5	62.3	62.7	+0.4
Smoke marijuana occasionally ^b	84.5	82.6	81.9	79.9	81.1	81.6	78.8	77.7	77.5	77.5	75.5	73.1	70.3	71.2	+0.9
Smoke marijuana regularly ^b	87.7	86.8	85.9	84.3	85.7	85.6	83.8	82.2	82.2	82.3	81.2	79.3	76.0	75.9	-0.1
Try inhalants once or twice ^c	84.1	82.3	83.1	83.1	82.9	83.1	81.6	80.7	80.6	78.3	77.4	75.0	72.9	74.0	+1.0
Take inhalants regularly ^c	89.5	88.5	88.4	88.9	88.5	88.6	86.8	85.5	85.4	83.3	82.8	81.3	78.8	82.0	+3.2
Take LSD once or twice d	53.5	52.6	53.2	53.7	55.4	51.8	52.0	52.8	56.0	55.2	56.1	55.9	59.4	51.3	-8.1 ss
Take LSD regularly ^d	55.6	54.7	55.7	55.8	57.6	54.1	53.6	54.8	58.1	57.6	58.2	59.4	62.1	56.0	-6.1 s
Try ecstasy (MDMA, Molly) once or twice ^e	65.7	63.5	62.3	62.4	64.2	60.2	60.9	61.0‡	68.2	64.8	63.0	63.7	64.7	59.1	-5.6
Take ecstasy (MDMA, Molly) occasionally e	68.3	66.5	65.7	65.9	67.5	63.2	63.4	64.1‡	71.7	67.5	65.8	67.1	67.6	63.9	-3.6
Try cocaine once or twice ^d	_	_	_	_	_	_	_	_	_	_	_	_	_	86.7	_
Take cocaine occasionally ^d	_	_	_	_	_	_	_	_	_	_	_	_	_	89.5	_
Try crack once or twice c	88.6	87.2	88.4	89.1	88.5	89.0	88.1	88.0	87.5	87.0	87.5	86.1	84.4	_	_
Take crack occasionally ^c	91.2	90.3	91.0	91.5	91.0	91.2	90.3	89.8	89.8	88.8	89.6	88.4	86.1	_	_
Try cocaine powder once or twice ^c	88.2	86.8	88.1	88.4	88.3	88.6	88.0	87.7	87.5	86.8	86.8	85.6	83.8	_	_
Take cocaine powder occasionally ^c	91.0	90.1	90.7	91.4	91.3	91.5	90.6	90.1	90.1	89.3	90.0	88.9	86.5	_	_
Try heroin once or twice without using															
a needle ^d	88.4	86.9	88.6	89.5	87.5	86.8	87.2	87.1	87.1	85.6	87.9	85.5	84.6	86.0	+1.4
Take heroin occasionally without using															
a needle ^d	89.7	88.2	90.1	90.6	89.0	87.7	88.2	88.1	88.0	86.7	88.7	86.8	85.5	87.6	+2.0
Try one or two drinks of an alcoholic															
beverage (beer, wine, liquor) b	54.0	52.5	52.7	54.2	54.0	54.1	53.3	53.3	53.7	52.6	51.0	47.4	51.0	46.0	-4.9
Take one or two drinks nearly every day b	80.4	79.2	78.5	79.5	80.7	81.3	80.2	79.6	79.7	79.1	79.5	77.9	77.8	78.1	+0.2
Have five or more drinks once or twice															
each weekend ^b	83.8	83.2	83.2	83.6	84.8	86.0	85.0	84.9	85.4	84.9	84.7	83.7	81.3	82.8	+1.5
Smoke one to five cigarettes per day e	85.3	85.0	83.6	84.7	86.8	_	_	_	_	_	_	_	_	_	_
Smoke one or more packs of cigarettes															
per day ^f	87.0	86.7	87.1	87.0	88.0	88.8	88.0	87.5	88.8	88.1	88.8	87.6	85.5	87.8	+2.3
Use electronic cigarettes (e-cigarettes)															
regularly ^e	_	_	_	_	_	_	_	58.4	65.0	66.6	_	_	_	_	_
Vape an e-liquid with nicotine occasionally ^{e,h}	_	_	_	_	_	_	_	_	_	_	63.2	60.8	65.0	73.0	+8.0 s
Vape an e-liquid with nicotine regularly ^{e,h}	_	_	_	_	_	_	_	_	_	_	69.9	68.9	73.4	79.1	+5.7
Vape marijuana occasionally ^e	_	_	_	_	_	_	_	_	_	_	_	_	_	75.7	_
Vape marijuana regularly ^e	_	_	_	_	_	_	_	_	_	_	_	_	_	79.4	_
Use JUUL occasionally ^e	_	_	_	_	_	_	_	_	_	_	_	_	63.0	71.7	+8.7 sss
Use JUUL regularly ^e	_	_	_	_	_	_	_	_	_	_	_	_	70.4	79.5	+9.0 sss
Use smokeless tobacco regularly ^b	82.3	82.1	81.5	81.2	82.6	82.7	81.5	80.2	82.5	81.1	81.3	79.9	79.1	81.4	+2.3
Take steroids ^g	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Approximate weighted N =	16,100	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	6,800	3,100	

Table continued on next page.

TABLE 13 (cont.) Trends in Disapproval of Drug Use in Grade 8

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. '‡' indicates that the question changed the following year.

^aAnswer alternatives were: (1) Don't disapprove, (2) Disapprove, (3) Strongly disapprove, and (4) Can't say, drug unfamiliar. Percentages are shown for categories (2) and (3) combined.

^bBeginning in 2012, data based on two thirds of *N* indicated.

^cBeginning in 1997, data based on two thirds of N indicated.

^dData based on one of two forms in 1993–1996; N is one half of N indicated. Beginning in 1997, data based on one third of N indicated due to changes in questionnaire forms.

Data based on one third of N indicated. For MDMA "Molly" was added to the question text in 2015; 2014 and 2015 data are not comparable due to this change

^fBeginning in 1999, data based on two thirds of *N* indicated due to changes in questionnaire forms.

⁹Data based on two forms in 1991 and 1992. Data based on one of two forms in 1993 and 1994; N is one half of N indicated.

h Percentages for all years reported here include respondents who replied "can't say, drug unfamiliar" in the denominator. The percentage for 2017 published in late 2017 and early

2018 did not include these respondents in the denominator.

In 2019 a randomly-selected half of the respondents answered survey questions using electronic tablets and the other half used paper and pencil. Drug prevalence estimates were the same across survey mode (documented here), while questions on the other topics were subject to survey mode effects in some cases. All 2019 drug prevalence estimates combine responses from electronic tablets and paper. For estimates other than drug prevalence we use the mode that allows us direct comparison of the latest year and the penultimate year of estimates without mode effects. Specifically, we report tablet-based 2019 estimates for outcomes with 2020 estimates (when all respondents used tablets) and we report paper-based 2019 respondents when 2019 estimates are the most recent reported (for direct comparison with 2018 estimates, when all respondents used paper).

TABLE 14
Trends in <u>Disapproval</u> of Drug Use in <u>Grade 10</u>

Do you disapprove of people who
Try marijuana once or twice b 74.6 74.8 70.3 62.4 59.8 55.5 54.1 56.0 56.2 54.9 54.8 57.8 58.1 60.4 61.3 62.5 Smoke marijuana occasionally b 83.7 83.6 79.4 72.3 70.0 66.9 66.2 67.3 68.2 67.2 66.2 68.3 68.4 70.8 71.9 72.6 Smoke marijuana regularly b 90.4 90.0 87.4 82.2 81.1 79.7 79.7 80.1 79.8 79.1 78.0 78.6 78.8 81.3 82.0 82.5 Try inhalants once or twice c 85.2 85.6 84.8 84.9 84.5 86.0 86.9 85.6 88.4 87.5 87.8 88.6 87.7 88.5 88.1 88.1 Take inhalants regularly c 91.0 91.5 90.9 91.0 90.9 91.7 91.7 91.1 92.4 91.8 91.3 91.8 91.0 92.3 91.9 92.2 Take LSD once or twice d — — 82.1 79.3 77.9 76.8 76.6 76.7 77.8 77.0 75.4 74.6 74.4 72.4 71.8 71.2 Take LSD regularly d — — 86.8 85.6 84.8 84.5 83.4 82.9 84.3 82.1 80.8 79.4 77.6 75.9 75.0 74.9 Try ecstasy (MDMA, Molly) once or twice d — — — — — — — — — — — — — — — — — —
Smoke marijuana occasionally b 83.7 83.6 79.4 72.3 70.0 66.9 66.2 67.3 68.2 67.2 66.2 68.3 68.4 70.8 71.9 72.6 Smoke marijuana regularly b 90.4 90.0 87.4 82.2 81.1 79.7 79.7 80.1 79.8 79.1 78.0 78.6 78.8 81.3 82.0 82.5 Try inhalants once or twice c 85.2 85.6 84.8 84.9 84.5 86.0 86.9 85.6 84.8 84.9 84.5 86.0 86.9 85.6 84.8 84.9 84.5 86.0 86.9 85.6 84.8 87.5 87.8 88.6 87.7 88.5 88.1 88.1 Take inhalants regularly c 91.0 91.5 90.9 91.0 90.9 91.7 91.7 91.1 92.4 91.8 91.3 91.8 91.0 92.3 91.9 92.2 Take LSD once or twice d — — 82.1 79.3 77.9 76.8 76.6 76.7 77.8 77.0 75.4 74.6 74.4 72.4 71.8 71.2 Take LSD regularly d — — 86.8 85.6 84.8 84.5 83.4 82.9 84.3 82.1 80.8 79.4 77.6 75.9 75.0 74.9 Try ecstasy (MDMA, Molly) once or twice d — — — — — — — — — — — — — — — — — —
Smoke marijuana regularly b 90.4 90.0 87.4 82.2 81.1 79.7 79.7 80.1 79.8 79.1 78.0 78.6 78.8 81.3 82.0 82.5 Try inhalants once or twice c 85.2 85.6 84.8 84.9 84.5 86.0 86.9 85.6 88.4 87.5 87.8 88.6 87.7 88.5 88.1 88.1 Take inhalants regularly c 91.0 91.5 90.9 91.0 90.9 91.7 91.7 91.1 92.4 91.8 91.3 91.8 91.0 92.3 91.9 92.2 Take LSD once or twice d — — 82.1 79.3 77.9 76.8 76.6 76.6 76.7 77.8 77.0 75.4 74.6 74.4 72.4 71.8 71.2 Take LSD regularly d — — 86.8 85.6 84.8 84.5 83.4 82.9 84.3 82.1 80.8 79.4 77.6 75.9 75.0 74.9 Try ecstasy (MDMA, Molly) once or twice d — — — — — — — — — — — — — — — 72.6 77.4 81.0 83.7 83.1 81.6 Take ecstasy (MDMA, Molly) occasionally d — — — — — — — — — — — — — — — — — —
Try inhalants once or twice c 85.2 85.6 84.8 84.9 84.5 86.0 86.9 85.6 88.4 87.5 87.8 88.6 87.7 88.5 88.1 88.1 Take inhalants regularly c 91.0 91.5 90.9 91.0 90.9 91.7 91.7 91.1 92.4 91.8 91.3 91.8 91.0 92.3 91.9 92.2 Take LSD once or twice d — — 82.1 79.3 77.9 76.8 76.6 76.7 77.8 77.0 75.4 74.6 74.4 72.4 71.8 71.2 Take LSD regularly d — — 86.8 85.6 84.8 84.5 83.4 82.9 84.3 82.1 80.8 79.4 77.6 75.9 75.0 74.9 Try ecstasy (MDMA, Molly) once or twice c — — — — — — — — — — — — — 72.6 77.4 81.0 83.7 83.1 81.6 Take ecstasy (MDMA, Molly) occasionally d — — — — — — — — — — — — — 86.0 87.4 86.0 Try cocaine once or twice d — — — — — — — — — — — — — — 81.0 84.6 86.3 88.0 87.4 86.0 Try cocaine occasionally d — — — — — — — — — — — — — — — — — —
Take inhalants regularly ° 91.0 91.5 90.9 91.0 90.9 91.7 91.7 91.1 92.4 91.8 91.3 91.8 91.0 92.3 91.9 92.2 Take LSD once or twice d — — 82.1 79.3 77.9 76.8 76.6 76.7 77.8 77.0 75.4 74.6 74.4 72.4 71.8 71.2 Take LSD regularly d — — 86.8 85.6 84.8 84.5 83.4 82.9 84.3 82.1 80.8 79.4 77.6 75.9 75.0 74.9 Try ecstasy (MDMA, Molly) once or twice — — — — — — — — — — — — — — 72.6 77.4 81.0 83.7 83.1 81.6 Take ecstasy (MDMA, Molly) occasionally d — — — — — — — — — — — — 81.0 84.6 86.3 88.0 87.4 86.0 Try cocaine once or twice d — — — — — — — — — — — — — — — — — —
Take LSD once or twice d — — 82.1 79.3 77.9 76.8 76.6 76.7 77.8 77.0 75.4 74.6 74.4 72.4 71.8 71.2 Take LSD regularly d — — 86.8 85.6 84.8 84.5 83.4 82.9 84.3 82.1 80.8 79.4 77.6 75.9 75.0 74.9 Try cestasy (MDMA, Molly) once or twice d — — — — — — — — — — — — — — — 81.0 84.6 86.3 88.0 87.4 86.0 Try cocaine once or twice d — — — — — — — — — — — — — — — — — —
Take LSD regularly d — — 86.8 85.6 84.8 84.5 83.4 82.9 84.3 82.1 80.8 79.4 77.6 75.9 75.0 74.9 Try ecstasy (MDMA, Molly) once or twice d — — — — — — — — — — — — — — — — — —
Try costasy (MDMA, Molly) once or twice 6 — — — — — — — — — — — — — — — — — —
Try cocaine once or twice d
Try cocaine once or twice d
Try crack once or twice ° 92.5 92.5 91.4 89.9 88.7 88.2 87.4 87.1 87.8 87.1 86.9 88.0 87.6 88.6 88.8 89.5 Take crack occasionally ° 94.3 94.4 93.6 92.5 91.7 91.9 91.0 90.6 91.5 90.9 90.6 91.0 91.0 91.0 91.8 91.8 92.0 Try cocaine powder once or twice ° 90.8 91.1 90.0 88.1 86.8 86.1 85.1 84.9 86.0 84.8 85.3 86.4 85.9 86.8 86.9 87.3 Take cocaine powder occasionally ° 94.0 94.0 93.2 92.1 91.4 91.1 90.4 89.7 90.7 89.9 90.2 89.9 90.4 91.2 91.2 91.4
Take crack occasionally ° 94.3 94.4 93.6 92.5 91.7 91.9 91.0 90.6 91.5 90.9 90.6 91.0 91.0 91.8 91.8 92.0 Try cocaine powder once or twice ° 90.8 91.1 90.0 88.1 86.8 86.1 85.1 84.9 86.0 84.8 85.3 86.4 85.9 86.8 86.9 87.3 Take cocaine powder occasionally ° 94.0 94.0 93.2 92.1 91.4 91.1 90.4 89.7 90.7 89.9 90.2 89.9 90.4 91.2 91.2 91.4
Take crack occasionally c 94.3 94.4 93.6 92.5 91.7 91.9 91.0 90.6 91.5 90.9 90.6 91.0 91.0 91.0 91.8 91.8 92.0 Try cocaine powder once or twice c 90.8 91.1 90.0 88.1 86.8 86.1 85.1 84.9 86.0 84.8 85.3 86.4 85.9 86.8 86.9 87.3 Take cocaine powder occasionally c 94.0 94.0 93.2 92.1 91.4 91.1 90.4 89.7 90.7 89.9 90.2 89.9 90.4 91.2 91.2 91.4
Take cocaine powder occasionally 94.0 94.0 93.2 92.1 91.4 91.1 90.4 89.7 90.7 89.9 90.2 89.9 90.4 91.2 91.2 91.4
Try heroin once or twice without using
,
a needle ^d 89.7 89.5 89.1 88.6 90.1 90.1 89.1 89.2 89.3 90.1 90.3 91.1
Take heroin occasionally without using
a needle d 91.6 91.7 91.4 90.5 91.8 92.3 90.8 90.7 90.6 91.8 92.0 92.5
Try one or two drinks of an alcoholic
beverage (beer, wine, liquor) b 37.6 39.9 38.5 36.5 36.1 34.2 33.7 34.7 35.1 33.4 34.7 37.7 36.8 37.6 38.5 37.8
Take one or two drinks nearly every day b 81.7 81.7 78.6 75.2 75.4 73.8 75.4 74.6 75.4 73.8 73.8 74.9 74.2 75.1 76.9 76.4
Have five or more drinks once or twice
each weekend b 76.7 77.6 74.7 72.3 72.2 70.7 70.2 70.5 69.9 68.2 69.2 71.5 71.6 71.8 73.7 72.9
Smoke one to five cigarettes per day e
Smoke one or more packs of cigarettes
per day ^f 79.4 77.8 76.5 73.9 73.2 71.6 73.8 75.3 76.1 76.7 78.2 80.6 81.4 82.7 84.3 83.2
Use electronic cigarettes (e-cigarettes)
regularly ^e
Vape an e-liquid with nicotine occasionally ^{e,h}
Vape an e-liquid with nicotine regularly ^{e,h}
Vape marijuana occasionally ^e
Vape marijuana regularly ^e
Use JUUL occasionally ^e
Use JUUL regularly ^e
Use smokeless tobacco regularly b 75.4 74.6 73.8 71.2 71.0 71.0 72.3 73.2 75.1 75.8 76.1 78.7 79.4 80.2 80.5 80.5
Take steroids ⁹ 90.0 91.0 91.2 90.8 — — — — — — — — — — — — — —

 $Approximate\ weighted\ N=\ 14,800\ \ 14,800\ \ 15,300\ \ 15,900\ \ 15,900\ \ 15,000\ \ 15,000\ \ 15,000\ \ 14,300\ \ 14,000\ \ 14,300\ \ 15,800\ \ 16,200\ \ 16,200$

TABLE 14 (cont.)
Trends in Disapproval of Drug Use in Grade 10

Percentage who disapprove or strongly disapprove a Do you disapprove of people who . . . 2019-2020 2007 2008 2009 2010 2013 2020 change 2011 2012 2014 2015 2016 2017 2018 2019 i Try marijuana once or twice t 63.9 64.5 60.1 59.2 58.5 56.2 53.2 53.8 52.7 52.6 48.1 47.9 46.9 44.3 -2.6 Smoke marijuana occasionally b 73.3 73.6 69.2 68.0 67.9 65.7 62.1 62.9 62.6 61.9 58.1 57.4 56.0 53.4 -2.6 Smoke marijuana regularly b 82.4 83.0 78.7 78.8 73.8 74.6 74.3 70.2 69.7 67.7 65.6 -2.2 79.9 77.3 73.5 Try inhalants once or twice c 79.5 +0.8 87.6 87.1 87.0 86.5 86.9 85.7 86.1 85.9 84.1 83.3 80.7 81.8 80.3 Take inhalants regularly c 91.8 91.6 91.1 90.8 90.9 90.0 89.7 89.7 88.3 87.1 85.4 86.9 83.9 84.2 +0.3 Take LSD once or twice of 66.3 67.8 68.2 68.5 68.3 69.1 67.8 70.3 69.5 66.9 70.5 71.3 62.4 -8.9 s Take LSD regularly d 71.5 69.8 72.2 72.9 72.5 73.0 74.2 73.3 76.5 74.9 74.5 76.5 79.9 73.0 -6.9 s Try ecstasy (MDMA, Molly) once or twice e 80.0 78.1 76.5 75.5 76.1 75.3 75.4 74.4± 78.0 76.8 74.7 75.3 76.6 70.9 -5.7 Take ecstasy (MDMA, Molly) occasionally 81.3 82.2 80.0 79.5 -4.3 84.3 83.0 81.3 81.2 81.3 80.4± 84.0 81.7 82.4 78.0 Try cocaine once or twice d 84.6 Take cocaine occasionally d 89.1 Try crack once or twice c 90.8 90.4 90.3 90.9 91.0 90.6 90.6 90.1 88.4 89.5 88.0 89.5 89.7 Take crack occasionally c 92.7 92.9 92.8 92.4 93.0 93.0 92.4 92.4 92.1 91.1 90.0 91.2 90.0 Try cocaine powder once or twice c 87.7 88.6 88.4 89.0 89.4 89.3 88.7 88.9 87.9 87.9 86.1 87.6 86.0 Take cocaine powder occasionally c 92.0 92.1 92.1 92.2 92.5 92.4 91.8 91.9 91.8 90.8 89.9 90.9 89.1 Try heroin once or twice without using a needle d 90.7 91.4 91.6 91.4 91.6 91.9 91.3 91.9 91.7 90.2 89.7 90.6 89.0 90.7 +1.7 Take heroin occasionally without using a needle d 92.5 92.5 93.0 92.4 92.4 92.9 92.3 92.7 92.7 90.9 90.5 91.2 89.3 91.2 +1.9 Try one or two drinks of an alcoholic beverage (beer, wine, liquor) b 41.8 39.7 41.5 39.6 38.5 40.7 40.0 39.3 39.6 38.1 -2.8 Take one or two drinks nearly every day b 79.1 77.6 77.6 0.08 78.0 77.1 77.9 78.2 78.6 77.7 77.9 77.6 76.0 Have five or more drinks once or twice each weekend b -3.4 s 77.2 75.1 75.9 77.3 77.5 77.8 79.5 79.6 80.8 80.1 78.8 Smoke one to five cigarettes per day e 79.7 82.5 80.0 80.6 82.1 Smoke one or more packs of cigarettes per dayf 84.7 85.2 83.9 85.8 86.0 86.1 88.0 88.3 88.5 87.8 88.5 86.0 -1.2 Use electronic cigarettes (e-cigarettes) regularly e Vape an e-liquid with nicotine occasionally e,h 59.3 58.0 58.5 66.4 +7.9 sss Vape an e-liquid with nicotine regularly e,h 67.8 71.2 +3.4 68.3 74.6 Vape marijuana occasionally e 60.1 Vape marijuana regularly e 70.0 Use JUUL occasionally e 59.0 64.9 +5.9 s Use JUUL regularly e 69.8 72.9 +3.0 Use smokeless tobacco regularly b 80.9 79.5 79.5 77.7 78.7 80.7 80.2 80.1 -0.1 Take steroids ^g

Approximate weighted N = 16,100 15,100 15,900 15,200 14,900 15,000 12,900 13,000 15,600 14,700 13,500 14,300 7,000

TABLE 14 (cont.) Trends in Disapproval of Drug Use in Grade 10

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. '‡' indicates that the question changed the following year.

^aAnswer alternatives were: (1) Don't disapprove, (2) Disapprove, (3) Strongly disapprove, and (4) Can't say, drug unfamiliar. Percentages are shown for categories (2) and (3) combined.

^bBeginning in 2012, data based on two thirds of N indicated.

^cBeginning in 1997, data based on two thirds of N indicated.

^dData based on one of two forms in 1993–1996; N is one half of N indicated. Beginning in 1997, data based on one third of N indicated due to changes in questionnaire forms.

Data based on one third of N indicated. For MDMA "Molly" was added to the question text in 2015; 2014 and 2015 data are not comparable due to this change.

^fBeginning in 1999, data based on two thirds of *N* indicated due to changes in questionnaire forms.

⁹Data based on two forms in 1991 and 1992. Data based on one of two forms in 1993 and 1994; N is one half of N indicated.

h Percentages for all years reported here include respondents who replied "can't say, drug unfamiliar" in the denominator. The percentage for 2017 published in late 2017 and early

2018 did not include these respondents in the denominator.

In 2019 a randomly-selected half of the respondents answered survey questions using electronic tablets and the other half used paper and pencil. Drug prevalence estimates were the same across survey mode (documented here), while questions on the other topics were subject to survey mode effects in some cases. All 2019 drug prevalence estimates combine responses from electronic tablets and paper. For estimates other than drug prevalence we use the mode that allows us direct comparison of the latest year and the penultimate year of estimates without mode effects. Specifically, we report tablet-based 2019 estimates for outcomes with 2020 estimates (when all respondents used tablets) and we report paper-based 2019 respondents when 2019 estimates are the most recent reported (for direct comparison with 2018 estimates, when all respondents used paper).

TABLE 15 Trends in **Disapproval** of Drug Use in **Grade 12**

Percentage who disapprove or strongly disapprove	

	T decinage who disapprove of strongly disapprove																
Do you disapprove of people (who are 18 or older)																	
doing each of the following? ^a	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>
Trying marijuana once or twice	47.0	38.4	33.4	33.4	34.2	39.0	40.0	45.5	46.3	49.3	51.4	54.6	56.6	60.8	64.6	67.8	68.7
Smoking marijuana occasionally	54.8	47.8	44.3	43.5	45.3	49.7	52.6	59.1	60.7	63.5	65.8	69.0	71.6	74.0	77.2	80.5	79.4
Smoking marijuana regularly	71.9	69.5	65.5	67.5	69.2	74.6	77.4	80.6	82.5	84.7	85.5	86.6	89.2	89.3	89.8	91.0	89.3
Trying LSD once or twice	82.8	84.6	83.9	85.4	86.6	87.3	86.4	88.8	89.1	88.9	89.5	89.2	91.6	89.8	89.7	89.8	90.1
Taking LSD regularly	94.1	95.3	95.8	96.4	96.9	96.7	96.8	96.7	97.0	96.8	97.0	96.6	97.8	96.4	96.4	96.3	96.4
Trying ecstasy (MDMA, Molly) once or twice ^c	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Trying cocaine once or twice	81.3	82.4	79.1	77.0	74.7	76.3	74.6	76.6	77.0	79.7	79.3	80.2	87.3	89.1	90.5	91.5	93.6
Taking cocaine regularly	93.3	93.9	92.1	91.9	90.8	91.1	90.7	91.5	93.2	94.5	93.8	94.3	96.7	96.2	96.4	96.7	97.3
Trying crack once or twice	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	92.3	92.1
Taking crack occasionally	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	94.3	94.2
Taking crack regularly	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	94.9	95.0
Trying cocaine powder once or twice	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	87.9	88.0
Taking cocaine powder occasionally	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	92.1	93.0
Taking cocaine powder regularly	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	93.7	94.4
Trying heroin once or twice	91.5	92.6	92.5	92.0	93.4	93.5	93.5	94.6	94.3	94.0	94.0	93.3	96.2	95.0	95.4	95.1	96.0
Taking heroin occasionally	94.8	96.0	96.0	96.4	96.8	96.7	97.2	96.9	96.9	97.1	96.8	96.6	97.9	96.9	97.2	96.7	97.3
Taking heroin regularly	96.7	97.5	97.2	97.8	97.9	97.6	97.8	97.5	97.7	98.0	97.6	97.6	98.1	97.2	97.4	97.5	97.8
Trying heroin once or twice without using a needle	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Taking heroin occasionally without using a needle	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Trying amphetamines once or twice ^d	74.8	75.1	74.2	74.8	75.1	75.4	71.1	72.6	72.3	72.8	74.9	76.5	80.7	82.5	83.3	85.3	86.5
Taking amphetamines regularly ^d	92.1	92.8	92.5	93.5	94.4	93.0	91.7	92.0	92.6	93.6	93.3	93.5	95.4	94.2	94.2	95.5	96.0
Trying sedatives (barbiturates) once or twice ^e	77.7	81.3	81.1	82.4	84.0	83.9	82.4	84.4	83.1	84.1	84.9	86.8	89.6	89.4	89.3	90.5	90.6
Taking sedatives (barbiturates) regularly ^e	93.3	93.6	93.0	94.3	95.2	95.4	94.2	94.4	95.1	95.1	95.5	94.9	96.4	95.3	95.3	96.4	97.1
Trying one or two drinks of an alcoholic beverage																	
(beer, wine, liquor)	21.6	18.2	15.6	15.6	15.8	16.0	17.2	18.2	18.4	17.4	20.3	20.9	21.4	22.6	27.3	29.4	29.8
Taking one or two drinks nearly every day	67.6	68.9	66.8	67.7	68.3	69.0	69.1	69.9	68.9	72.9	70.9	72.8	74.2	75.0	76.5	77.9	76.5
Taking four or five drinks nearly every day	88.7	90.7	88.4	90.2	91.7	90.8	91.8	90.9	90.0	91.0	92.0	91.4	92.2	92.8	91.6	91.9	90.6
Having five or more drinks once or twice																	
each weekend	60.3	58.6	57.4	56.2	56.7	55.6	55.5	58.8	56.6	59.6	60.4	62.4	62.0	65.3	66.5	68.9	67.4
Smoking one or more packs of cigarettes per day	67.5	65.9	66.4	67.0	70.3	70.8	69.9	69.4	70.8	73.0	72.3	75.4	74.3	73.1	72.4	72.8	71.4
Vape an e-liquid with nicotine occasionally ^f	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vape an e-liquid with nicotine regularly ^f	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vape marijuana occasionally ^f	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vape marijuana regularly ^f	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Use JUUL occasionally ^f	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Use JUUL regularly ^f	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Taking steroids	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	90.8	90.5
Approximate weighted N =	2,677	2,957	3,085	3,686	3,221	3,261	3,610	3,651	3,341	3,254	3,265	3,113	3,302	3,311	2,799	2,566	2,547

TABLE 15 (cont.)
Trends in <u>Disapproval</u> of Drug Use in <u>Grade 12</u>

Percentage who disapprove or strongly disapprove^b

	Percentage who disapprove or strongly disapprove															
Do you disapprove of people (who are 18 or older)																
doing each of the following? ^a	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Trying marijuana once or twice	69.9	63.3	57.6	56.7	52.5	51.0	51.6	48.8	52.5	49.1	51.6	53.4	52.7	55.0	55.6	58.6
Smoking marijuana occasionally	79.7	75.5	68.9	66.7	62.9	63.2	64.4	62.5	65.8	63.2	63.4	64.2	65.4	67.8	69.3	70.2
Smoking marijuana regularly	90.1	87.6	82.3	81.9	80.0	78.8	81.2	78.6	79.7	79.3	78.3	78.7	80.7	82.0	82.2	83.3
Trying LSD once or twice	88.1	85.9	82.5	81.1	79.6	80.5	82.1	83.0	82.4	81.8	84.6	85.5	87.9	87.9	88.0	87.8
Taking LSD regularly	95.5	95.8	94.3	92.5	93.2	92.9	93.5	94.3	94.2	94.0	94.0	94.4	94.6	95.6	95.9	94.9
Trying ecstasy (MDMA, Molly) once or twice ^c	_	_	_	_	_	82.2	82.5	82.1	81.0	79.5	83.6	84.7	87.7	88.4	89.0	87.8
Trying cocaine once or twice	93.0	92.7	91.6	90.3	90.0	88.0	89.5	89.1	88.2	88.1	89.0	89.3	88.6	88.9	89.1	89.6
Taking cocaine regularly	96.9	97.5	96.6	96.1	95.6	96.0	95.6	94.9	95.5	94.9	95.0	95.8	95.4	96.0	96.1	96.2
Trying crack once or twice	93.1	89.9	89.5	91.4	87.4	87.0	86.7	87.6	87.5	87.0	87.8	86.6	86.9	86.7	88.8	88.8
Taking crack occasionally	95.0	92.8	92.8	94.0	91.2	91.3	90.9	92.3	91.9	91.6	91.5	90.8	92.1	91.9	92.9	92.4
Taking crack regularly	95.5	93.4	93.1	94.1	93.0	92.3	91.9	93.2	92.8	92.2	92.4	91.2	93.1	92.1	93.8	93.6
Trying cocaine powder once or twice	89.4	86.6	87.1	88.3	83.1	83.0	83.1	84.3	84.1	83.3	83.8	83.6	82.2	83.2	84.1	83.5
Taking cocaine powder occasionally	93.4	91.2	91.0	92.7	89.7	89.3	88.7	90.0	90.3	89.8	90.2	88.9	90.0	89.4	90.4	90.6
Taking cocaine powder regularly	94.3	93.0	92.5	93.8	92.9	91.5	91.1	92.3	92.6	92.5	92.2	90.7	92.6	92.0	93.2	92.6
Trying heroin once or twice	94.9	94.4	93.2	92.8	92.1	92.3	93.7	93.5	93.0	93.1	94.1	94.1	94.2	94.3	93.8	94.8
Taking heroin occasionally	96.8	97.0	96.2	95.7	95.0	95.4	96.1	95.7	96.0	95.4	95.6	95.9	96.4	96.3	96.2	96.8
Taking heroin regularly	97.2	97.5	97.1	96.4	96.3	96.4	96.6	96.4	96.6	96.2	96.2	97.1	97.1	96.7	96.9	97.1
Trying heroin once or twice without using a needle	_	_	_	92.9	90.8	92.3	93.0	92.6	94.0	91.7	93.1	92.2	93.1	93.2	93.7	93.6
Taking heroin occasionally without using a needle	_	_	_	94.7	93.2	94.4	94.3	93.8	95.2	93.5	94.4	93.5	94.4	95.0	94.5	94.9
Trying amphetamines once or twice ^d	86.9	84.2	81.3	82.2	79.9	81.3	82.5	81.9	82.1	82.3	83.8	85.8	84.1	86.1	86.3	87.3
Taking amphetamines regularly ^d	95.6	96.0	94.1	94.3	93.5	94.3	94.0	93.7	94.1	93.4	93.5	94.0	93.9	94.8	95.3	95.4
Trying sedatives (barbiturates) once or twice ^e	90.3	89.7	87.5	87.3	84.9	86.4	86.0	86.6	85.9	85.9	86.6	87.8‡	83.7	85.4	85.3	86.5
Taking sedatives (barbiturates) regularly ^e	96.5	97.0	96.1	95.2	94.8	95.3	94.6	94.7	95.2	94.5	94.7	94.4‡	94.2	95.2	95.1	94.6
Trying one or two drinks of an alcoholic beverage																
(beer, wine, liquor)	33.0	30.1	28.4	27.3	26.5	26.1	24.5	24.6	25.2	26.6	26.3	27.2	26.0	26.4	29.0	31.0
Taking one or two drinks nearly every day	75.9	77.8	73.1	73.3	70.8	70.0	69.4	67.2	70.0	69.2	69.1	68.9	69.5	70.8	72.8	73.3
Taking four or five drinks nearly every day	90.8	90.6	89.8	88.8	89.4	88.6	86.7	86.9	88.4	86.4	87.5	86.3	87.8	89.4	90.6	90.5
Having five or more drinks once or twice																
each weekend	70.7	70.1	65.1	66.7	64.7	65.0	63.8	62.7	65.2	62.9	64.7	64.2	65.7	66.5	68.5	68.8
Smoking one or more packs of cigarettes per day	73.5	70.6	69.8	68.2	67.2	67.1	68.8	69.5	70.1	71.6	73.6	74.8	76.2	79.8	81.5	80.7
Vape an e-liquid with nicotine occasionally	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vape an e-liquid with nicotine regularly	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vape marijuana occasionally f	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vape marijuana regularly ^f	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Use JUUL occasionally f	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Use JUUL regularly [†]		_												_		_
Taking steroids	92.1	92.1	91.9	91.0	91.7	91.4	90.8	88.9	88.8	86.4	86.8	86.0	87.9	88.8	89.4	89.2
Approximate weighted N =	2,645	2,723	2,588	2,603	2,399	2,601	2,545	2,310	2,150	2,144	2,160	2,442	2,455	2,460	2,377	2,450

TABLE 15 (cont.)
Trends in <u>Disapproval</u> of Drug Use in <u>Grade 12</u>

Percentage who disapprove or strongly disapprove^b

Do you disapprove of people (who are 18 or older)														2019–2020
doing each of the following? ^a	2008	2009	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	2016	<u>2017</u>	<u>2018</u>	2019 ^g	2020	change
Trying marijuana once or twice	55.5	54.8	51.6	51.3	48.8	49.1	48.0	45.5	43.1	39.0	41.1	34.1	§	_
Smoking marijuana occasionally	67.3	65.6	62.0	60.9	59.1	58.9	56.7	52.9	50.5	46.7	49.2	41.4	§	_
Smoking marijuana regularly	79.6	80.3	77.7	77.5	77.8	74.5	73.4	70.7	68.5	64.7	66.7	63.4	§	_
Trying LSD once or twice	85.5	88.2	86.5	86.3	87.2	86.6	85.0	81.7	82.4	78.0	80.5	76.1	§	_
Taking LSD regularly	93.5	95.3	94.3	94.9	95.2	95.3	94.7	92.5	92.4	92.7	93.4	93.8	§	_
Trying ecstasy (MDMA, Molly) once or twice ^c	88.2	88.2	86.3	83.9	87.1	84.9‡	83.1	84.5	84.0	85.1	85.6	89.8	§	_
Trying cocaine once or twice	89.2	90.8	90.5	91.1	91.0	92.3	90.0	89.0	88.4	88.0	88.9	88.5	§	_
Taking cocaine regularly	94.8	96.5	96.0	96.0	96.8	96.7	96.3	95.2	94.8	94.8	95.8	96.5	§	_
Trying crack once or twice	89.6	90.9	89.8	91.4	92.8	91.4	89.3	90.2	90.1	89.7	90.4	88.7	_	_
Taking crack occasionally	93.3	94.0	92.6	93.9	95.0	93.6	91.9	92.5	92.0	91.8	92.2	91.1	_	_
Taking crack regularly	93.5	94.3	93.1	94.4	95.4	94.1	92.4	92.8	92.6	92.5	92.5	91.5	_	_
Trying cocaine powder once or twice	85.7	87.3	87.0	88.1	88.7	88.2	85.5	86.4	86.6	85.5	86.5	85.7	_	_
Taking cocaine powder occasionally	91.7	92.3	91.0	92.2	93.0	91.7	90.4	91.3	90.6	90.3	91.3	90.1	_	_
Taking cocaine powder regularly	92.8	93.9	92.6	93.8	95.0	94.1	91.7	92.4	92.0	92.2	92.0	91.2	_	_
Trying heroin once or twice	93.3	94.7	93.9	94.3	95.8	95.6	94.7	94.2	94.1	93.7	95.0	95.7	§	_
Taking heroin occasionally	95.3	96.9	96.2	96.3	97.0	96.9	96.6	95.3	95.5	95.5	96.4	96.7	§	_
Taking heroin regularly	95.9	97.4	96.4	96.7	97.4	97.4	97.1	96.4	95.7	95.9	96.8	97.3	§	_
Trying heroin once or twice without using a needle	94.2	94.7	93.2	92.6	95.2	93.7	92.5	92.6	93.8	93.3	93.0	95.2	§	_
Taking heroin occasionally without using a needle	95.3	95.5	94.5	94.1	95.9	94.6	93.5	92.8	94.0	93.8	93.4	95.4	§	_
Trying amphetamines once or twice ^d	87.2	88.2	88.1‡	84.1	83.9	84.9	83.1	81.4	82.1	81.9	81.0	80.3	§	_
Taking amphetamines regularly ^d	94.2	95.6	94.9‡	92.9	93.9	93.2	93.0	92.2	92.2	92.0	92.8	94.4	§	_
Trying sedatives (barbiturates) once or twice e	86.1	87.7	87.6	87.3	88.2	88.9	88.5	87.4	86.5	85.9	86.9	85.6	_	_
Taking sedatives (barbiturates) regularly ^e	94.3	95.8	94.7	95.1	96.1	95.8	95.0	94.7	94.8	94.4	95.3	95.1	_	_
Trying one or two drinks of an alcoholic beverage														
(beer, wine, liquor)	29.8	30.6	30.7	28.7	25.4	27.3	29.2	28.9	28.8	27.2	31.3	26.3	§	_
Taking one or two drinks nearly every day	73.3	74.5	70.5	71.5	72.8	70.8	71.9	71.7	71.1	71.8	70.8	73.4	§	_
Taking four or five drinks nearly every day	90.5	89.8	89.7	88.8	90.8	90.1	90.6	91.9	89.7	91.1	90.7	91.5	§	_
Having five or more drinks once or twice														
each weekend	68.9	67.6	68.8	70.0	70.1	71.6	72.6	71.9	74.2	72.5	75.8	75.0	§	_
Smoking one or more packs of cigarettes per day	80.5	81.8	81.0	83.0	83.7	82.6	85.0	84.1	85.3	86.6	89.0	87.9	§	_
Vape an e-liquid with nicotine occasionally	_	_	_	_	_	_	_	_		62.0	59.2	60.7	64.4	+3.6
Vape an e-liquid with nicotine regularly ^f	_	_	_	_	_	_	_	_	_	71.8	70.9	70.7	77.5	+6.8 ss
Vape marijuana occasionally ^f	_	_	_	_	_	_	_	_	_	_	_	_	57.8	_
Vape marijuana regularly ^f	_	_	_	_	_	_	_	_	_	_	_	_	70.3	_
Use JUUL occasionally f	_	_	_	_	_	_	_	_	_	_	_	57.9	60.5	+2.6
Use JUUL regularly ^f	_	_	_	_	_	_	_	_	_	_	_	69.2	71.7	+2.5
Taking steroids	90.9	90.3	89.8	89.7	90.4	88.2	87.5	87.8	86.7	88.5	87.4	88.7	§	_
Approximate weighted N =	= 2,314	2,233	2.449	2.384	2.301	2,147	2.078	2.193	2.000	1.870	1.918	1,103	617	

TABLE 15 (cont.)

Trends in **Disapproval** of Drug Use in **Grade 12**

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. ' ‡ ' indicates that the question

changed the following year. See relevant footnote for that drug. Any apparent inconsistency between the change estimate and the prevalence estimates for the

two most recent years is due to rounding.

§This estimate is not presented in 2020 due to small sample size. The survey question for this estimate appears on a randomly-selected 1/6 of the questionnaires, and the number of responses is uniquely small in 2020 when the COVID-19 pandemic halted MTF data collection prematurely and the resulting sample size was only 25% of the target.

^aThe 1975 question asked about people who are 20 or older.

^bAnswer alternatives were: (1) Don't disapprove, (2) Disapprove, and (3) Strongly disapprove. Percentages are shown for categories (2) and (3) combined.

Beginning in 2014 "molly" was added to the question on disapproval of using MDMA once or twice. 2014 and 2015 data are not comparable to earlier years due to this change.

d n 2011 the list of examples was changed from upper, pep pill, bennie, speed to upper, speed, Adderall, Ritalin, etc. These changes likely explain the discontinuity in the

2011 results.

en 2004 the question text was changed from barbiturates to sedatives/barbiturates and the list of examples was changed from downers, goofballs, reds, yellows, etc. to just downers. These changes likely explain the discontinuity in the 2004 results.

^fBased on two of six forms; N is two times the N indicated.

⁹In 2019 a randomly-selected half of the respondents answered survey questions using electronic tablets and the other half used paper and pencil. Drug prevalence estimates were the same across survey mode (documented<u>here)</u>, while questions on the other topics were subject to survey mode effects in some cases. All 2019 drug prevalence estimates combine responses from electronic tablets and paper. For estimates other than drug prevalence we use the mode that allows us direct comparison of the latest year and the penultimate year of estimates without mode effects. Specifically, we report tablet-based 2019 estimates for outcomes with 2020 estimates (when all respondents used tablets) and we report paper-based 2019 respondents when 2019 estimates are the most recent reported (for direct comparison with 2018 estimates, when all respondents used paper).

TABLE 16
Trends in <u>Availability</u> of Drugs as Perceived by <u>8th Graders</u>

How difficult do you think it would be for you	Percentage saying fairly easy or very easy to get a													-			
to get each of the following types of drugs, if you wanted some?	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	<u>2001</u>	2002	2003	<u>2004</u>	<u>2005</u>	<u>2006</u>	
Marijuana	_	42.3	43.8	49.9	52.4	54.8	54.2	50.6	48.4	47.0	48.1	46.6	44.8	41.0	41.1	39.6	
LSD	_	21.5	21.8	21.8	23.5	23.6	22.7	19.3	18.3	17.0	17.6	15.2	14.0	12.3	11.5	10.8	
PCP ^b	_	18.0	18.5	17.7	19.0	19.6	19.2	17.5	17.1	16.0	15.4	14.1	13.7	11.4	11.0	10.5	
MDMA (e.g. ecstasy, "Molly") ^b	_	_	_	_	_	_	_	_	_	_	23.8	22.8	21.6	16.6	15.6	14.5	
Crack	_	25.6	25.9	26.9	28.7	27.9	27.5	26.5	25.9	24.9	24.4	23.7	22.5	20.6	20.8	20.9	
Cocaine powder	_	25.7	25.9	26.4	27.8	27.2	26.9	25.7	25.0	23.9	23.9	22.5	21.6	19.4	19.9	20.2	
Heroin	_	19.7	19.8	19.4	21.1	20.6	19.8	18.0	17.5	16.5	16.9	16.0	15.6	14.1	13.2	13.0	
Narcotics other than Heroin ^{b,c}	_	19.8	19.0	18.3	20.3	20.0	20.6	17.1	16.2	15.6	15.0	14.7	15.0	12.4	12.9	13.0	Table continu
Amphetamines ^d	_	32.2	31.4	31.0	33.4	32.6	30.6	27.3	25.9	25.5	26.2	24.4	24.4	21.9	21.0	20.7	next page.
Crystal methamphetamine (ice) ^b	_	16.0	15.1	14.1	16.0	16.3	15.7	16.0	14.7	14.9	13.9	13.3	14.1	11.9	13.5	14.5	
Sedatives (barbiturates)	_	27.4	26.1	25.3	26.5	25.6	24.4	21.1	20.8	19.7	20.7	19.4	19.3	18.0	17.6	17.3	
Tranquilizers	_	22.9	21.4	20.4	21.3	20.4	19.6	18.1	17.3	16.2	17.8	16.9	17.3	15.8	14.8	14.4	
Alcohol	_	76.2	73.9	74.5	74.9	75.3	74.9	73.1	72.3	70.6	70.6	67.9	67.0	64.9	64.2	63.0	
Cigarettes	_	77.8	75.5	76.1	76.4	76.9	76.0	73.6	71.5	68.7	67.7	64.3	63.1	60.3	59.1	58.0	
Vaping device ^{e,f}	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
E-liquid with nicotine (for vaping) ^{e,f}	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Flavored e-liquid with nicotine (for vaping) i	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
E-liquid for marijuana vaping ⁱ	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
JUUL vaping device ^g	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Steroids	_	24.0	22.7	23.1	23.8	24.1	23.6	22.3	22.6	22.3	23.1	22.0	21.7	19.7	18.1	17.1	
Approximate weighted N =		8,355	16,775	16,119	15,496	16,318	16,482	16,208	15,397	15,180	14,804	13,972	15,583	15,944	15,730	15,502	

TABLE 16 (cont.)
Trends in <u>Availability</u> of Drugs as Perceived by <u>8th Graders</u>

How difficult do you think it would be for you	Percentage saying fairly easy or very easy to get ^a															
to get each of the following types of drugs, if you wanted some?	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	2019 ^h	<u>2020</u>	2019–2020 <u>change</u>	
Marijuana	37.4	39.3	39.8	41.4	37.9	36.9	39.1	36.9	37.0	34.6	35.2	35.0	32.0	28.0	-4.0	
LSD	10.5	10.9	10.0	10.0	9.3	7.5	7.4	6.9	6.6	6.9	6.3	6.5	7.9	7.3	-0.5	
PCP ^b	9.5	10.1	9.1	8.0	7.9	6.7	5.8	5.5	5.1	4.8	4.6	4.7	5.6	§	_	
MDMA (e.g. ecstasy, "Molly") ^b	13.4	14.1	13.1	12.9	12.0	9.6	9.5	10.1	9.6	8.7	8.0	7.2	8.6	6.6	-2.0	
Crack	19.7	20.2	18.6	17.9	15.7	14.4	13.7	12.0	11.3	11.1	10.2	9.6	8.3	7.3	-1.0	
Cocaine powder	19.0	19.5	17.8	16.6	14.9	14.1	13.5	11.9	11.6	11.0	10.4	9.8	8.6	7.6	-1.0	
Heroin	12.6	13.3	12.0	11.6	9.9	9.4	10.0	8.6	7.8	8.9	8.1	7.8	6.4	5.1	-1.3	
Narcotics other than Heroin b,c	11.7	12.1	11.8‡	14.6	12.3	10.6	9.7	9.2	8.8	8.9	8.9	8.3	9.3	§	_	Table continued on
Amphetamines ^d	19.9	21.3	20.2	19.6‡	15.0	13.4	12.8	12.1	11.8	12.1	11.0	11.6	12.4	12.7	+0.4	next page.
Crystal methamphetamine (ice) b	12.1	12.8	11.9	10.9	9.6	8.8	8.5	7.7	6.9	6.6	6.6	6.2	6.9	§	_	
Sedatives (barbiturates) ^e	16.8	17.5	15.9	15.3	12.6	11.1	10.6	10.0	9.0	9.3	9.2	8.6	10.8	9.1	-1.7	
Tranquilizers	14.4	15.4	14.1	13.7	12.0	10.5	10.4	9.8	9.8	11.4	11.8	12.2	10.9	9.8	-1.1	
Alcohol	62.0	64.1	61.8	61.1	59.0	57.5	56.1	54.4	53.6	52.7	53.2	53.9	46.1	45.0	-1.1	
Cigarettes	55.6	57.4	55.3	55.5	51.9	50.7	49.9	47.2	47.0	45.6	46.2	45.7	39.4	38.1	-1.3	
Vaping device e,f	_	_	_	_	_	_	_	_	_	_	38.6	45.7	40.9	42.8	+1.9	
E-liquid with nicotine (for vaping) e,f	_	_	_	_	_	_	_	_	_	_	31.0	37.9	39.3	38.0	-1.2	
Flavored e-liquid with nicotine (for vaping) i	_	_	_	_	_	_	_	_	_	_	_	_	_	38.0	_	
E-liquid for marijuana vaping ⁱ	_	_	_	_	_	_	_	_	_	_	_	_	_	24.2	_	
JUUL vaping device ^g	_	_	_	_	_	_	_	_	_	_	_	_	47.2	43.4	-3.8 s	
Steroids	17.0	16.8	15.2	14.2	13.3	12.5	12.9	11.8	11.6	12.6	11.6	10.9	9.6	8.9	-0.7	
Approximate weighted N =	15,043	14,482	13,989	14,485	15,233	14,235	13,605	13,208	13,494	15,628	14,042	12,315	6,706	2,939		

TABLE 16 (cont.) Trends in Availability of Drugs as Perceived by 8th Graders

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. '‡' indicates that the question changed the following year. See relevant footnote for that drug. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

§This estimate is not presented in 2020 due to small sample size. The survey question for this estimate appears on a randomly-selected 1/6 of the questionnaires, and the number of responses is uniquely small in 2020 when the COVID-19 pandemic halted MTF data collection prematurely and the resulting sample size was only 25% of the target.

^aAnswer alternatives were: (1) Probably impossible, (2) Very difficult, (3) Fairly difficult, (4) Fairly easy, (5) Very easy, and (6) Can't say, drug unfamiliar.

^bBeginning in 1993, data based on one of two of forms; *N* is one half of *N* indicated. Beginning in 2014 data based on one sixth of *N* indicated. For MDMA only: In 2014 the question text was changed in one form to include "Molly." In 2015 a second from was changed to including "Molly;" data based on one sixth of *N* indicated in 2014 and on one half of *N* indicated in 2015. An examination of the data did not show any effect from this wording change.

^cIn 2010 the list of examples for narcotics other than heroin was changed from methadone, opium to Vicodin, OxyContin, Percocet, etc. This change likely explains the discontinuity in the 2010 results.

^dIn 2011 the list of examples for amphetamines was changed from uppers, pep pills, bennies, speed to uppers, speed, Adderall, Ritalin, etc. These changes likely explain the discontinuity in the 2012 results.

^eBeginning in 2017, data based on one half of N indicated.

Percentages for all years reported here include respondents who replied "can't say, drug unfamiliar" in the deniminator. The percentage for 2017 published in late 2017 and early 2018 did not include these respondents in the deniminator.

^g Data based on three of four forms. *N* is two thirds of *N* indicated.

^hIn 2019 a randomly-selected half of the respondents answered survey questions using electronic tablets and the other half used paper and pencil. Drug prevalence estimates were the same across survey mode (documented here), while questions on the other topics were subject to survey mode effects in some cases. All 2019 drug prevalence estimates combine responses from electronic tablets and paper. For estimates other than drug prevalence we use the mode that allows us direct comparison of the latest year and the penultimate year of estimates without mode effects. Specifically, we report tablet-based 2019 estimates for outcomes with 2020 estimates (when all respondents used tablets) and we report paper-based 2019 respondents when 2019 estimates are the most recent reported (for direct comparison with 2018 estimates, when all respondents used paper).

TABLE 17
Trends in <u>Availability</u> of Drugs as Perceived by <u>10th Graders</u>

Percentage saying fairly easy or very easy to get a How difficult do you think it would be for you to get each of the following types of drugs, if 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 vou wanted some? Marijuana 65.2 68.4 75.0 78.1 81.1 80.5 77.9 78.2 77.7 77.4 75.9 73.9 73.3 72.6 70.7 LSD 33.6 35.8 36.1 39.8 41.0 38.3 34.0 34.3 32.9 31.2 26.8 23.1 21.6 20.7 19.2 PCP b 23.7 23.4 23.8 24.7 26.8 24.8 23.9 24.5 25.0 21.6 20.8 19.4 18.0 18.1 15.8 MDMA (e.g. ecstasy, "Molly") c 41.4 41.0 36.3 31.2 30.2 27.4 Crack 34.2 36.0 34.0 30.6 29.6 30.6 29.9 33.7 33.0 34.6 36.4 36.3 36.5 31.3 31.0 Cocaine powder 35.0 34.1 34.5 35.3 36.9 37.1 36.8 36.7 34.5 31.0 31.8 29.6 31.2 31.5 30.7 Heroin 24.3 24.3 24.7 24.6 24.8 24.4 23.0 23.7 22.3 20.1 19.9 18.8 18.7 19.3 17.4 Narcotics other than Heroin b 26.9 24.9 26.9 27.8 29.4 29.0 26.1 26.6 27.2 25.8 25.4 23.5 23.1 23.6 22.2 Amphetamines d 43.4 46.4 46.6 47.7 47.2 44.6 41.0 41.3 40.9 40.6 39.6 36.1 35.7 35.6 34.7 Crystal methamphetamine (ice) b 20.7 18.8 16.4 17.8 22.6 22.9 22.1 21.8 22.8 19.9 20.5 19.0 19.5 21.6 20.8 Sedatives (barbiturates) 38.0 38.8 38.3 38.8 38.1 35.6 32.7 33.2 32.4 32.8 32.4 28.8 30.0 29.7 29.9 **Tranquilizers** 31.6 30.5 29.8 30.6 30.3 28.7 26.5 26.8 27.6 28.5 28.3 25.6 25.6 25.4 25.1 Alcohol 88.6 88.9 89.8 89.7 90.4 89.0 88.0 88.2 87.7 87.7 84.8 83.4 84.3 83.7 83.1 Cigarettes 89.1 89.4 90.3 90.7 89.6 88.1 88.3 86.8 86.3 83.3 80.7 81.4 81.5 79.5 91.3 Vaping device e,f E-liquid with nicotine (for vaping) e,f Flavored e-liquid with nicotine (for vaping) E-liquid for marijuana vaping j JUUL vaping device h Steroids 33.6 33.6 34.8 34.8 34.2 33.0 35.9 35.4 33.1 33.2 30.6 29.6 29.7 30.2 37.6 Approximate weighted N = 7,014 14,652 15,192 16,209 14,887 14,856 14,423 13,112 13,690 13,518 13,694 15,255 15,806 15,636 15,804

TABLE 17 (cont.)
Trends in <u>Availability</u> of Drugs as Perceived by <u>10th Graders</u>

Have difficult do you think it would be for you	Percentage saying fairly easy or very easy to get ^a															
How difficult do you think it would be for you to get each of the following types of drugs, if															2019–2020	
you wanted some?	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019 </u>	<u>2020</u>	<u>change</u>	
Marijuana	69.0	67.4	69.3	69.4	68.4	68.8	69.7	66.9	65.6	64.0	64.6	64.5	59.4	55.3	-4.1	
LSD	19.0	19.3	17.8	18.3	16.6	14.9	16.3	14.8	15.5	15.2	15.9	14.9	16.7	14.4	-2.3	
PCP ^b	15.4	14.4	13.4	12.6	12.0	10.2	9.4	8.3	9.0	7.6	7.1	7.3	9.5	§	_	
MDMA (e.g. ecstasy, "Molly") ^c	27.7	26.7	25.6	25.7	24.8	21.0	20.7	20.4	19.3	16.3	15.0	13.9	14.3	12.8	-1.5	
Crack	29.0	27.2	23.9	22.5	19.7	18.4	17.1	15.1	14.4	13.9	13.8	13.0	11.2	11.1	-0.1	
Cocaine powder	30.0	28.2	24.7	22.6	20.6	19.2	18.3	16.4	16.1	14.9	15.0	14.7	12.9	13.4	+0.6	
Heroin	17.3	17.2	15.0	14.5	13.2	11.9	11.9	10.9	11.0	10.6	10.6	9.7	8.2	7.9	-0.3	
Narcotics other than Heroin b,g	21.5	20.3	18.8‡	28.7	25.0	24.3	22.5	18.8	19.2	16.8	17.7	16.8	17.1	§	_	Table continued on
Amphetamines ^d	33.3	32.0	31.8	32.6‡	28.5	27.3	26.5	25.2	27.3	22.9	24.2	23.4	21.4	19.3	-2.1	next page.
Crystal methamphetamine (ice) b	18.8	15.8	14.0	13.3	11.8	10.7	10.0	9.8	8.9	8.2	8.0	8.0	9.9	§	_	
Sedatives (barbiturates) ^e	28.2	26.9	25.5	24.9	22.0	20.2	18.3	16.7	16.6	14.2	15.1	14.4	16.6	12.8	-3.8 s	
Tranquilizers	24.9	24.1	22.3	21.6	20.8	19.7	18.3	17.5	19.4	20.5	23.3	24.2	18.1	15.8	-2.3	
Alcohol	82.6	81.1	80.9	80.0	77.9	78.2	77.2	75.3	74.9	71.1	71.5	70.6	64.8	61.2	-3.7	
Cigarettes	78.2	76.5	76.1	75.6	73.6	72.9	71.4	69.0	66.6	62.9	62.5	61.5	55.0	50.4	-4.6	
Vaping device e,f	_	_	_	_	_	_	_	_	_	_	59.5	66.6	64.1	60.7	-3.4	
E-liquid with nicotine (for vaping) e,f	_	_	_	_	_	_	_	_	_	_	52.8	60.4	64.1	58.2	-5.9	
Flavored e-liquid with nicotine (for vaping) j	_	_	_	_	_	_	_	_	_	_	_	_	_	56.5	_	
E-liquid for marijuana vaping ^j	_	_	_	_	_	_	_	_	_	_	_	_	_	47.7	_	
JUUL vaping device h	_	_	_	_	_	_	_	_	_	_	_	_	69.2	61.1	-8.1	
Steroids	27.7	24.5	20.8	20.3	18.8	18.0	17.2	16.5	17.0	15.3	15.0	14.5	11.9	10.8	-1.1	
Approximate weighted N =	15,511	14,634	15,451	14,827	14,509	14,628	12,601	12,574	15,186	14,126	12,901	13,365	6,864	4,625		

TABLE 17 (cont.)

Trends in **Availability** of Drugs as Perceived by 10th Graders

Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. '‡' indicates that the question changed the following year. See relevant footnote for that drug. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

§This estimate is not presented in 2020 due to small sample size. The survey question for this estimate appears on a randomly-selected 1/6 of the questionnaires, and the number of responses is uniquely small in 2020 when the COVID-19 pandemic halted MTF data collection prematurely and the resulting sample size was only 25% of the target.

^aAnswer alternatives were: (1) Probably impossible, (2) Very difficult, (3) Fairly difficult, (4) Fairly easy, (5) Very easy, and (6) Can't say, drug unfamiliar.

^bBeginning in 1993, data based on one of two forms; N is one half of N indicated. Beginning in 2014 data based on one sixth of N indicated.

^cBeginning in 1993, data based on one of two of forms; N is one half of N indicated. Beginning in 2014 data based on one sixth of N indicated for MDMA only:

In 2014 the question text was changed in one form to include "Molly." In 2015 a second from was changed to including "Molly;" data based on one sixth of N indicated in 2014 and on one half of N indicated in 2015. An examination of the data did not show any effect from this wording change.

^dIn 2011 the list of examples for amphetamines was changed from uppers, pep pills, bennies, speed to uppers, speed, Adderall, Ritalin, etc. These changes likely explain the discontinuity in the 2011 results.

^eBeginning in 2017, data based on one half of N indicated.

Percentages for all years reported here include respondents who replied "can't say, drug unfamiliar" in the deniminator. The percentage for 2017 published in late 2017 and early 2018 did not include these respondents in the deniminator.

⁹In 2010 the list of examples for narcotics other than heroin was changed from methadone, opium to Vicodin, OxyContin, Percocet, etc. This change likely explains the discontinuity in the 2010 results.

^h Data based on three of four forms. N is two thirds of N indicated.

In 2019 a randomly-selected half of the respondents answered survey questions using electronic tablets and the other half used paper and pencil. Drug prevalence estimates were the same across survey mode (documented here), while questions on the other topics were subject to survey mode effects in some cases. All 2019 drug prevalence estimates combine responses from electronic tablets and paper. For estimates other than drug prevalence we use the mode that allows us direct comparison of the latest year and the penultimate year of estimates without mode effects. Specifically, we report tablet-based 2019 estimates for outcomes with 2020 estimates (when all respondents used tablets) and we report paper-based 2019 respondents when 2019 estimates are the most recent reported (for direct comparison with 2018 estimates, when all respondents used paper).

Data based on two of four forms. N is one half of N indicated.

TABLE 18
Trends in Availability of Drugs as Perceived by 12th Graders

Percentage saying fairly easy or very easy to get a How difficult do you think it would be for you to get each of the following types of drugs, if you wanted some? 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 Marijuana 87.8 87.4 87.9 87.8 90.1 89.0 89.2 88.5 86.2 84.6 85.5 85.2 84.8 85.0 84.3 84.4 Amyl/butyl nitrites 23.9 25.9 26.8 24.4 LSD 37.4 32.2 46.2 34.5 34.2 35.3 35.0 34.2 30.9 30.6 30.5 28.5 31.4 33.3 38.3 40.7 Some other hallucinogen b 26.2 47.8 35.7 33.8 33.8 34.6 35.0 32.7 30.6 26.6 26.6 26.1 24.9 25.0 28.2 28.3 PCP 22.8 24.9 28.9 27.7 MDMA (e.g. ecstasy, "molly") c 22.0 21.7 Cocaine 48.9 55.0 58.7 37.0 34.0 33.0 37.8 45.5 47.9 47.5 47.4 43.1 45.0 51.5 54.2 54.5 Crack 42.1 42.4 41.1 47.0 Cocaine powder 52.9 50.3 53.7 49.0 Heroin 24.2 21.2 19.2 22.0 28.0 18.4 17.9 16.4 18.9 20.8 19.3 19.9 21.0 23.7 31.4 31.9 Some other narcotic (including methadone) d 38.1 34.5 26.9 27.8 26.1 28.7 29.4 29.6 30.4 30.0 32.1 33.1 32.2 33.0 35.8 38.3 Amphetamines ^e 67.8 61.8 58.1 58.5 59.9 61.3 69.5 70.8 68.5 68.2 66.4 64.3 64.5 63.9 64.3 59.7 Crystal methamphetamine (ice) 24.1 Sedatives (barbiturates) f 60.0 54.4 52.4 50.6 49.8 49.1 52.5 48.3 48.2 47.8 48.4 45.9 54.9 55.2 51.9 51.3 Tranquilizers 71.8 65.5 64.9 64.3 61.4 59.1 60.8 58.9 55.3 54.5 54.7 51.2 48.6 49.1 45.3 44.7 Alcohol Cigarettes ^g Vaping device ^g E-liquid with nicotine (for vaping) ^g Steroids Approximate weighted N = 2,6272,865 3,065 3,598 3,172 3,240 3,578 3,602 3,385 3,269 3,274 3,077 3,271 3,231 2,806 2,549

TABLE 18 (cont.) Trends in **Availability** of Drugs as Perceived by **12th Graders**

Percentage saying fairly easy or very easy to get ^a

How difficult do you think it would be for you to get each of the following types of drugs, if you wanted some?	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	2000	2001	2002	2003	2004	2005	<u>2006</u>
Marijuana	83.3	82.7	83.0	85.5	88.5	88.7	89.6	90.4	88.9	88.5	88.5	87.2	87.1	85.8	85.6	84.9
Amyl/butyl nitrites	22.7	25.9	25.9	26.7	26.0	23.9	23.8	25.1	21.4	23.3	22.5	22.3	19.7	20.0	19.7	18.4
LSD	39.5	44.5	49.2	50.8	53.8	51.3	50.7	48.8	44.7	46.9	44.7	39.6	33.6	33.1	28.6	29.0
Some other hallucinogen ^b	28.0	29.9	33.5	33.8	35.8	33.9	33.9	35.1	29.5	34.5‡	48.5	47.7	47.2	49.4	45.0	43.9
PCP	27.6	31.7	31.7	31.4	31.0	30.5	30.0	30.7	26.7	28.8	27.2	25.8	21.9	24.2	23.2	23.1
MDMA (e.g. ecstasy, "Molly") °	22.1	24.2	28.1	31.2	34.2	36.9	38.8	38.2	40.1	51.4	61.5	59.1	57.5	47.9	40.3	40.3
Cocaine	51.0	52.7	48.5	46.6	47.7	48.1	48.5	51.3	47.6	47.8	46.2	44.6	43.3	47.8	44.7	46.5
Crack	39.9	43.5	43.6	40.5	41.9	40.7	40.6	43.8	41.1	42.6	40.2	38.5	35.3	39.2	39.3	38.8
Cocaine powder	46.0	48.0	45.4	43.7	43.8	44.4	43.3	45.7	43.7	44.6	40.7	40.2	37.4	41.7	41.6	42.5
Heroin	30.6	34.9	33.7	34.1	35.1	32.2	33.8	35.6	32.1	33.5	32.3	29.0	27.9	29.6	27.3	27.4
Some other narcotic (including methadone) ^d	34.6	37.1	37.5	38.0	39.8	40.0	38.9	42.8	40.8	43.9	40.5	44.0	39.3	40.2	39.2	39.6
Amphetamines ^e	57.3	58.8	61.5	62.0	62.8	59.4	59.8	60.8	58.1	57.1	57.1	57.4	55.0	55.4	51.2	52.9
Crystal methamphetamine (ice)	24.3	26.0	26.6	25.6	27.0	26.9	27.6	29.8	27.6	27.8	28.3	28.3	26.1	26.7	27.2	26.7
Sedatives (barbiturates) ^f	42.4	44.0	44.5	43.3	42.3	41.4	40.0	40.7	37.9	37.4	35.7	36.6	35.3‡	46.3	44.4	43.8
Tranquilizers	40.8	40.9	41.1	39.2	37.8	36.0	35.4	36.2	32.7	33.8	33.1	32.9	29.8	30.1	25.7	24.4
Alcohol	_	_	_	_	_	_	_	_	95.0	94.8	94.3	94.7	94.2	94.2	93.0	92.5
Cigarettes ^g	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Vaping device ^g	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
E-liquid with nicotine (for vaping) ^g	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Flavored e-liquid with nicotine (for vaping) ^g	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
E-liquid for marijuana vaping ^g	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Steroids	46.7	46.8	44.8	42.9	45.5	40.3	41.7	44.5	44.6	44.8	44.4	45.5	40.7	42.6	39.7	41.1
Approximate weighted N =	2,476	2,586	2,670	2,526	2,552	2,340	2,517	2,520	2,215	2,095	2,120	2,138	2,391	2,169	2,161	2,131

TABLE 18 (cont.)
Trends in Availability of Drugs as Perceived by 12th Graders

Percentage saying "fairly easy" or "very easy" to get a How difficult do you think it would be for you to get each of the following types of drugs, if 2019-2020 you wanted some? 2007 2008 2012 2015 2018 2019 h 2020 2009 2010 2011 2013 2014 2016 2017 change 82.2 81.0 Marijuana 83.9 83.9 81.1 82.1 81.6 81.4 81.3 79.5 79.8 79.7 78.0 Amyl/butyl nitrites 18.1 16.9 15.7 26.3 28.7 28.5 25.1 25.1 27.6 24.5 25.9 26.5 28.0 26.3 28.0 28.2 Some other hallucinogen b 40.5 36.6 32.5 29.7 43.7 42.8 39.5 38.3 37.8 33.6 31.4 28.4 28.6 § PCP 21.0 20.6 19.2 18.5 17.2 14.2 15.3 13.8 12.6 10.6 11.1 10.8 11.0 MDMA (e.g. ecstasy, "Molly") c 40.9 41.9 35.1 36.4 37.1 35.9 35.1 36.1 37.1 32.5 29.3 27.7 24.3 Ş Cocaine 47.1 42.4 39.4 35.5 30.5 29.8 30.5 29.2 29.1 28.6 27.3 28.1 24.2 Crack 37.5 35.2 31.9 26.1 24.0 22.0 24.6 20.1 22.0 19.8 18.1 20.8 16.9 § Cocaine powder 41.2 38.9 33.9 29.0 26.4 25.1 28.4 22.3 25.8 22.9 21.3 23.0 19.9 29.7 25.4 27.4 24.1 20.8 19.9 22.1 20.2 20.4 20.0 19.1 18.4 16.1 Heroin § Some other narcotic (including methadone) d 37.3 34.9 36.1‡ 54.2 50.7 50.4 46.5 42.2 39.0 39.3 35.8 32.5 31.0 Amphetamines e 49.6 47.9 47.1 44.1‡ 47.0 45.4 42.7 44.5 41.9 41.1 38.0 39.3 39.0 § Crystal methamphetamine (ice) 25.1 23.3 22.3 18.3 17.1 14.5 17.2 13.7 15.3 14.5 13.6 13.6 11.9 37.9 27.9 Sedatives (barbiturates) 41.7 38.8 36.8 32.4 28.7 26.3 25.0 25.7 23.4 23.0 23.6 § Tranquilizers 23.6 22.4 21.2 18.4 16.8 14.9 15.0 14.4 14.9 15.2 14.9 13.0 14.7 Alcohol 92.2 92.1 92.2 90.4 88.9 90.6 89.7 87.6 86.6 85.4 87.1 85.5 84.4 § Cigarettes ^g 77.9 75.1 71.0 61.6 -9.3 sss Vaping device ^g 78.2 80.5 81.2 75.3 -6.0 s E-liquid with nicotine (for vaping) ^g 75.0 79.3 72.2 -7.1 s 77.2 Flavored e-liquid with nicotine (for vaping) ^g 70.0 E-liquid for marijuana vaping ^g 58.2 Steroids 40.1 35.2 30.3 27.3 26.1 25.0 28.5 22.0 23.7 21.3 20.1 21.1 19.2 § Approximate weighted N = 2,420 2,2762,243 2,395 2,337 2,280 2,092 2,066 2,181 1,958 1,882 1,931 1,085 560

TABLE 18 (cont.) Trends in Availability of Drugs as Perceived by 12th Graders

Source. The Monitoring the Future study, the University of Michigan.

Votes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. '‡' indicates that the question changed the following year. See relevant footnote for that drug. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

§This estimate is not presented in 2020 due to small sample size. The survey question for this estimate appears on a randomly-selected 1/6 of the questionnaires, and the number of responses is uniquely small in 2020 when the COVID-19 pandemic halted MTF data collection prematurely and the resulting sample size was only 25% of the target.

^aAnswer alternatives were: (1) Probably impossible, (2) Very difficult, (3) Fairly difficult, (4) Fairly easy, and (5) Very easy.

^bIn 2001 the question text was changed from other psychedelics to other hallucinogens and shrooms was added to the list of examples. These changes likely explain the discontinuity in the 2001 results.

^cBeginning in 2014 "molly" was added to the question on availability of Ecstasy (MDMA). An examination of the data did not show any effect from this wording change. ^dIn 2010 the list of examples for narcotics other than heroin was changed from methadone, opium to Vicodin, OxyContin, Percocet, etc. This change likely explains the discontinuity in the 2010 results.

eln 2011 the list of examples was changed from uppers, pep pills, bennies, speed to uppers, speed, Adderall, Ritalin, etc. These changes likely explain the discontinuity in the 2011 results.

^fIn 2004 the question text was changed from barbiturates to sedatives/barbiturates and the list of examples was changed from downers, goofballs, reds, yellows, etc. to just downers. These changes likely explain the discontinuity in the 2004 results.

⁹Data based on 2 of 6 forms. N is twice the N indicated.

^hIn 2019 a randomly-selected half of the respondents answered survey questions using electronic tablets and the other half used paper and pencil. Drug prevalence estimates were the same across survey mode (documented <u>here</u>), while questions on the other topics were subject to survey mode effects in some cases. All 2019 drug prevalence estimates combine responses from electronic tablets and paper. For estimates other than drug prevalence we use the mode that allows us direct comparison of the latest year and the penultimate year of estimates without mode effects. Specifically, we report tablet-based 2019 estimates for outcomes with 2020 estimates (when all respondents used tablets) and we report paper-based 2019 respondents when 2019 estimates are the most recent reported (for direct comparison with 2018 estimates, when all respondents used paper).



Monitoring the Future website: http://www.monitoringthefuture.org