

## News and Information Services

412 Maynard  
Ann Arbor, Michigan  
48109-1399

December 18, 1998  
Contact: Joyce Buchanan  
Phone: (734) 763-5043  
E-mail: [buchanan@umich.edu](mailto:buchanan@umich.edu)  
[www.isr.umich.edu/src/mtf/](http://www.isr.umich.edu/src/mtf/)

### **Drug use by American young people begins to turn downward.**

EDITORS: Results of this survey are scheduled to be announced at a news conference in Washington, D.C. Among those participating in the release of results will be Secretary of Health and Human Services Donna E. Shalala, Director of the Office on National Drug Control Policy General Barry R. McCaffrey, and the principal investigator of the Monitoring the Future Study, Lloyd D. Johnston. For further information on the study, contact Johnston at (734) 763-5043.

ANN ARBOR---Reporting on the 1998 national survey results from the Monitoring the Future Study of American secondary school students, University of Michigan scientists conclude that illicit drug use by this population is finally heading down after six years of steady increases

"The improvement so far is very modest," notes Lloyd D. Johnston, the principal investigator of the study and a research scientist at the U-M Institute for Social Research. "But at least the troublesome trends observed through most of the 90s have begun to reverse direction." All three grades have shown some decline in the proportion of students who reported using *any illicit drug* during the 12 months prior to the survey. This represents the second year of decline among eighth-graders and the first year of decline for the 10th- and 12th-graders. (Both the two-year decline for eighth-graders and the one-year decline for 10th-graders are statistically significant.) The investigators note that eighth-graders were the first to exhibit an upturn in use at the beginning of the 90s, and they also were the first to exhibit this recent downturn (Figure 1).

In the spring of each year the study surveys nationally representative samples of

(more)

students in the eighth-, 10th-, and 12th-grades. In 1998, a total of nearly 50,000 students in some 422 public and private secondary schools participated in the study. Trend data over the past 23 years (since 1975) are reported for 12th-graders, and the past 7 years (since 1991) for eighth- and 10th-graders.

Funded under a research grant from the National Institute on Drug Abuse (one of the National Institutes of Health in the U.S. Department of Health and Human Services), the study covers a wide range of substances. Each drug has its own pattern of change, discussed below:

**Marijuana**, the most widely used of the illicit drugs, accounted for most of the increase in overall illicit drug use during the 90s and it now accounts for much of the observed decrease. There was some gradual downward movement in all three grades in those reporting any use of marijuana in the prior 12 months---that is, in annual prevalence. In fact, this is the second year of decline among eighth-graders. Even though marijuana use is decreasing, it is still widespread. This year, nearly a quarter (22 percent) of all eighth-graders said they had tried marijuana, and about half (49 percent) of all 12th-graders said they had done so.

Johnston and his collaborators, Jerald G. Bachman and Patrick M. O'Malley, have found that certain attitudes and beliefs about a drug---in particular the risk of harm young people see associated with use, and the extent to which they and their friends disapprove of use---play an important role in driving changes in actual use of the drug. The increase in marijuana use in the 90s was accompanied by, and to some extent preceded by, a downturn in the risk perceived to be associated with using that drug. Peer norms against use also weakened. However, Johnston notes, "over the past two years, we saw an end to the decline in the risk that young people associate with marijuana use, and now evidence of some turnaround in this important belief, especially among eighth-graders." Personal disapproval of marijuana use has shown a similar cross-time change (Figure 2).

**Stimulants** (amphetamines) comprise another class of illicit drugs showing a noticeable turnaround. Use has declined for two years among eighth-graders and for one

(more)

year among 10th-graders, and leveled among 12th-graders in 1998 (Figure 3). The annual prevalence rates in 1998 were 7.2 percent for eighth-graders (down 0.9 percentage points this year and 1.9 percent over the past two years), 10.7 percent for 10th-graders (down 1.4 percentage points), and 10.1 percent for 12th-graders.

Data on the degree of risk associated with amphetamine use is available only for 12th-graders. It shows that an increase in perceived risk---likely due to recent heavy media coverage of the dangers of methamphetamine---preceded the leveling in use among 12th-graders this year. The proportion of 12th-graders seeing "great risk" in trying amphetamines once or twice rose from 29 percent in 1995 to 35 percent in 1998, with most of that change occurring this year.

**Hallucinogens** showed a downward movement in all three grades in 1998, although the one-year changes are too small to reach statistical significance. This pattern was seen for hallucinogens generally, and for LSD specifically (Figure 4). Use of MDMA (ecstasy) was down for the second year in a row among 10th- and 12th-graders.

**Inhalants**---glues, aerosols, butane or solvents which young people typically inhale to get high---continued a pattern of gradual decline that began three years ago, with a jump in the proportion of young people who saw inhalant use as dangerous. Prior to 1995, inhalant use had been increasing for some years (Figure 5).

"The advertising campaign against inhalant use launched in April 1995 by the Partnership for a Drug-Free America, as well as the increased media attention given to the dangers of inhalants, may well have played an important role in bringing about the turnaround in use," concludes Johnston. "Few, if any, other drugs had begun to decline by 1996."

Some categories of illicit drugs did not show an improvement this year; however, none showed a sharp increase:

**Heroin.** The rise in the use of heroin, which began among teens in the 90s, halted at all three grade levels by 1998 (Figure 6). It actually halted among eighth-graders a year

(more)

earlier. The risk perceived to be associated with heroin use has risen some over the past several years.

**Cocaine.** The use of both crack cocaine and powder cocaine rose gradually in the 90s as young people's views of how dangerous they were began to erode (Figures 7-9). In general, crack use continues to show some upward drift in the lower grades in 1998, whereas the use of powder cocaine has now leveled in those grades. And perceived risk for crack, while still declining in the upper grades, has begun to level at eighth-grade---an encouraging sign for the future, according to the investigators (Figures 7-9).

**Tranquilizers.** The increase in use of tranquilizers in eighth-grade halted in 1998, but use continued its longer-term gradual increase among 10th- and 12th-graders (Table 1b).

**Alcohol.** The use of alcoholic beverages by American teen-agers had been drifting upward very gradually in recent years as they came to see behaviors such as weekend binge drinking as less and less dangerous. In 1998, however, there was some decline in alcohol use at all three grades, in both annual and monthly prevalence rates. (The declines in 12th-grade were very small and not statistically significant). As with marijuana, this is the first evidence of any decline among 10th- or 12th-grades in a number of years, and it is the second year of decline among eighth-graders (Table 1b). Self-reported drunkenness in the past 12 months showed a comparable pattern of change. Still, despite the very modest improvements, fully one-third (33 percent) of all high school seniors report being drunk at least once in the 30-day interval preceding the survey.

The risk perceived to be associated with weekend binge drinking began to rise two years ago among eighth- and 10th-graders (after having declined for several years), which may help to explain the recent downturn in alcohol use at these grade levels. Among 12th-graders, the decline in perceived risk was halted in 1998.

"In sum, we seem to be in the middle of a gradual turnaround in young people's use of most kinds of illicit drugs, as well as alcohol, following an earlier period of sustained increases," concludes Johnston. "These behaviors sometimes change very slowly, and often only after there has been some reassessment by young people of how dangerous these

(more)

(10) Drug study---Page 5

various drugs are, and how acceptable they are in the peer group. Such a reassessment now appears to be occurring for many drugs, very gradually. This turnaround may be due in part to more young people getting to observe adverse consequences of drug use firsthand as the number of users has risen. It may also be due, in part, to more attention being paid to the drug issue by a number of sectors of society, including community groups, parents, government, and the media. One also hears and sees fewer performers in the music industry singing the praises of drugs than was true in the early 90s, which also could make a real difference for teen-agers."

#####

The study, titled "Monitoring the Future," began in 1975 at the University of Michigan's Survey Research Center with annual surveys of American high school seniors. Beginning in 1991, similar surveys of nationally representative samples of eighth- and 10th-graders have been conducted annually. At each grade level the students are drawn to be representative of all students in public and private secondary schools nationwide. In the spring of the year, they complete self-administered questionnaires given to them in their classrooms by U-M personnel. The 1998 eighth-grade sample contained about 18,700 students in 149 schools, the 10th-grade sample contained about 15,400 students in 129 schools, and the 12th-grade sample contained about 15,800 students in 144 schools. In all, nearly 50,000 students in 422 public and private secondary schools were surveyed in 1998.

**Methodological note.** For the first time in 1998, in half of the eighth- and 10th-grade schools surveyed, the questionnaires administered were made fully anonymous (as opposed to confidential, but with some identifying information being gathered on a tear-off card). Specifically, the matched half-sample of schools beginning their two-year participation in Monitoring the Future in 1998 received the anonymous questionnaires, while the half-sample participating in the study for their second and final year continued to get the confidential questionnaires. A careful examination of the 1998 results based on the two equivalent half-samples at grade 8 and at grade 10, revealed no effect of this methodological change among 10th-graders, and only a very modest difference in the self-reported rates of alcohol and marijuana use among the eighth-graders (with prevalence rates slightly higher in the anonymous condition). The net effect of this methodological change is to *slightly* increase the eighth-grade prevalence estimates for marijuana and alcohol in 1998 from what they would have been in the absence of such a change in questionnaire administration. For those two drugs, that means that the declines in use in 1998 are slightly understated. In other words, the direction of the change is the same as shown in the tables, but the actual declines are probably slightly larger than those shown. For example, the annual prevalence of marijuana use among eighth-graders is shown to have fallen by 0.8 percentage points between 1997-1998; however, the half-sample of eighth-grade schools receiving exactly the same type of questionnaire that was used in 1997 showed a slightly greater decline of 1.5 percentage points.

#####

[98drugs]

**TABLE 1a**

**Trends in Lifetime Prevalence of Use of Various Drugs for Eighth, Tenth, and Twelfth Graders**  
(Entries are percentages)

	Lifetime								'97-'98 change*
	1991	1992	1993	1994	1995	1996	1997	1998	
Any Illicit Drug <sup>b</sup>									
8th Grade	18.7	20.6	22.5	25.7	28.5	31.2	29.4	29.0	-0.4
10th Grade	30.6	29.8	32.8	37.4	40.9	45.4	47.3	44.9	-2.4
12th Grade	44.1	40.7	42.9	45.6	48.4	50.8	54.3	54.1	-0.2
Any Illicit Drug Other Than Marijuana <sup>b</sup>									
8th Grade	14.3	15.6	16.8	17.5	18.8	19.2	17.7	16.9	-0.8
10th Grade	19.1	19.2	20.9	21.7	24.3	25.5	25.0	23.6	-1.4
12th Grade	26.9	25.1	26.7	27.6	28.1	28.5	30.0	29.4	-0.6
Any Illicit Drug Including Inhalants <sup>b,c</sup>									
8th Grade	28.5	29.6	32.3	35.1	38.1	39.4	38.1	37.8	-0.3
10th Grade	36.1	36.2	38.7	42.7	45.9	49.8	50.9	49.3	-1.6
12th Grade	47.6	44.4	46.6	49.1	51.5	53.5	56.3	56.1	-0.2
Marijuana/Hashish									
8th Grade	10.2	11.2	12.6	16.7	19.9	23.1	22.6	22.2	-0.4
10th Grade	23.4	21.4	24.4	30.4	34.1	39.8	42.3	39.6	-2.7 <sup>s</sup>
12th Grade	36.7	32.6	35.3	38.2	41.7	44.9	49.6	49.1	-0.5
Inhalants <sup>c,d</sup>									
8th Grade	17.6	17.4	19.4	19.9	21.6	21.2	21.0	20.5	-0.5
10th Grade	15.7	16.6	17.5	18.0	19.0	19.3	18.3	18.3	0.0
12th Grade	17.6	16.6	17.4	17.7	17.4	16.6	16.1	15.2	-0.9
Nitrites <sup>e</sup>									
8th Grade	—	—	—	—	—	—	—	—	—
10th Grade	—	—	—	—	—	—	—	—	—
12th Grade	1.6	1.5	1.4	1.7	1.5	1.8	2.0	2.7	+0.7
Hallucinogens <sup>d</sup>									
8th Grade	3.2	3.8	3.9	4.3	5.2	5.9	5.4	4.9	-0.5
10th Grade	6.1	6.4	6.8	8.1	9.3	10.5	10.5	9.8	-0.7
12th Grade	9.6	9.2	10.9	11.4	12.7	14.0	15.1	14.1	-1.0
LSD									
8th Grade	2.7	3.2	3.5	3.7	4.4	5.1	4.7	4.1	-0.6
10th Grade	5.6	5.8	6.2	7.2	8.4	9.4	9.5	8.5	-1.0
12th Grade	8.8	8.6	10.3	10.5	11.7	12.6	13.6	12.6	-1.0

(Table continued on next page)

TABLE 1a (cont.)

Trends in Lifetime Prevalence of Use of Various Drugs for Eighth, Tenth, and Twelfth Graders

	Lifetime								'97-'98 change <sup>a</sup>
	1991	1992	1993	1994	1995	1996	1997	1998	
Hallucinogens Other Than LSD									
8th Grade	1.4	1.7	1.7	2.2	2.5	3.0	2.6	2.5	-0.1
10th Grade	2.2	2.5	2.8	3.8	3.9	4.7	4.8	5.0	+0.2
12th Grade	3.7	3.3	3.9	4.9	5.4	6.8	7.5	7.1	-0.4
PCP <sup>a</sup>									
8th Grade	—	—	—	—	—	—	—	—	—
10th Grade	—	—	—	—	—	—	—	—	—
12th Grade	2.9	2.4	2.9	2.8	2.7	4.0	3.9	3.9	0.0
MDMA (Ecstasy) <sup>a</sup>									
8th Grade	—	—	—	—	—	3.4	3.2	2.7	-0.5
10th Grade	—	—	—	—	—	5.6	5.7	5.1	-0.6
12th Grade	—	—	—	—	—	6.1	6.9	5.8	-1.1
Cocaine									
8th Grade	2.3	2.9	2.9	3.6	4.2	4.5	4.4	4.6	+0.2
10th Grade	4.1	3.3	3.6	4.3	5.0	6.5	7.1	7.2	+0.1
12th Grade	7.8	6.1	6.1	5.9	6.0	7.1	8.7	9.3	+0.6
Crack									
8th Grade	1.3	1.6	1.7	2.4	2.7	2.9	2.7	3.2	+0.5s
10th Grade	1.7	1.5	1.8	2.1	2.8	3.3	3.6	3.9	+0.3
12th Grade	3.1	2.6	2.6	3.0	3.0	3.3	3.9	4.4	+0.5
Other Cocaine <sup>f</sup>									
8th Grade	2.0	2.4	2.4	3.0	3.4	3.8	3.5	3.7	+0.2
10th Grade	3.8	3.0	3.3	3.8	4.4	5.5	6.1	6.4	+0.3
12th Grade	7.0	5.3	5.4	5.2	5.1	6.4	8.2	8.4	+0.2
Heroin <sup>f</sup>									
8th Grade	1.2	1.4	1.4	2.0	2.3	2.4	2.1	2.3	+0.2
10th Grade	1.2	1.2	1.3	1.5	1.7	2.1	2.1	2.3	+0.2
12th Grade	0.9	1.2	1.1	1.2	1.6	1.8	2.1	2.0	-0.1
Other Opiates <sup>b</sup>									
8th Grade	—	—	—	—	—	—	—	—	—
10th Grade	—	—	—	—	—	—	—	—	—
12th Grade	6.6	6.1	6.4	6.6	7.2	8.2	9.7	9.8	+0.1
Stimulants <sup>b</sup>									
8th Grade	10.5	10.8	11.8	12.3	13.1	13.5	12.3	11.3	-1.0
10th Grade	13.2	13.1	14.9	15.1	17.4	17.7	17.0	16.0	-1.0
12th Grade	15.4	13.9	15.1	15.7	15.3	15.3	16.5	16.4	-0.1

(Table continued on next page)

TABLE 1a (cont.)

Trends in Lifetime Prevalence of Use of Various Drugs for Eighth, Tenth, and Twelfth Graders

	Lifetime								'97-'98 change <sup>a</sup>
	1991	1992	1993	1994	1995	1996	1997	1998	
Ice <sup>i</sup>									
8th Grade	—	—	—	—	—	—	—	—	—
10th Grade	—	—	—	—	—	—	—	—	—
12th Grade	3.3	2.9	3.1	3.4	3.9	4.4	4.4	5.3	+0.9
Barbiturates <sup>h</sup>									
8th Grade	—	—	—	—	—	—	—	—	—
10th Grade	—	—	—	—	—	—	—	—	—
12th Grade	6.2	5.5	6.3	7.0	7.4	7.6	8.1	8.7	+0.6
Tranquilizers <sup>h</sup>									
8th Grade	3.8	4.1	4.4	4.6	4.5	5.3	4.8	4.6	-0.2
10th Grade	5.8	5.9	5.7	5.4	6.0	7.1	7.3	7.8	+0.5
12th Grade	7.2	6.0	6.4	6.6	7.1	7.2	7.8	8.5	+0.7
Alcohol <sup>j</sup>									
Any use									
8th Grade	70.1	69.3	67.1	—	—	—	—	—	—
10th Grade	83.8	82.3	80.8	—	—	—	—	—	-1.3
12th Grade	88.0	87.5	87.0	80.4	80.7	79.2	81.7	81.4	-0.3
8th Grade			71.6	71.1	70.5	71.8	72.0	69.8	-2.2s
10th Grade			80.0	80.4	80.7	79.2	81.7	81.4	-0.3
12th Grade			87.0	80.4	80.7	79.2	81.7	81.4	-0.3
8th Grade	26.7	26.8	26.4	25.9	25.3	26.8	25.2	24.8	-0.4
10th Grade	50.0	47.7	47.9	47.2	46.9	48.5	49.4	46.7	-2.7s
12th Grade	65.4	63.4	62.5	62.9	63.2	61.8	64.2	62.4	-1.8
Cigarettes									
Any use									
8th Grade	44.0	45.2	45.3	46.1	46.4	49.2	47.3	45.7	-1.6
10th Grade	55.1	53.5	56.3	56.9	57.6	61.2	60.2	57.7	-2.5s
12th Grade	63.1	61.8	61.9	62.0	64.2	63.5	65.4	65.3	-0.1
Smokeless Tobacco <sup>o</sup>									
8th Grade	22.2	20.7	18.7	19.9	20.0	20.4	16.8	15.0	-1.8
10th Grade	28.2	26.6	28.1	29.2	27.6	27.4	26.3	22.7	-3.6ss
12th Grade	—	32.4	31.0	30.7	30.9	29.8	25.3	26.2	+0.9
Steroids <sup>i</sup>									
8th Grade	1.9	1.7	1.6	2.0	2.0	1.8	1.8	2.3	+0.5s
10th Grade	1.8	1.7	1.7	1.8	2.0	1.8	2.0	2.0	0.0
12th Grade	2.1	2.1	2.0	2.4	2.3	1.9	2.4	2.7	+0.3

(Table continued on next page)



**TABLE 1b**  
**Trends in Annual and 30-Day Prevalence of Use of Various Drugs**  
**for Eighth, Tenth, and Twelfth Graders**

	Annual									30-Day								
	1991	1992	1993	1994	1995	1996	1997	1998	'97-'98 change <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998	'97-'98 change <sup>a</sup>
<b>Any Illicit Drug<sup>b</sup></b>																		
8th Grade	11.3	12.9	15.1	18.5	21.4	23.6	22.1	21.0	-1.1	5.7	6.8	8.4	10.9	12.4	14.6	12.9	12.1	-0.8
10th Grade	21.4	20.4	24.7	30.0	33.3	37.5	38.5	35.0	-3.5 <sub>ss</sub>	11.6	11.0	14.0	18.5	20.2	23.2	23.0	21.5	-1.5
12th Grade	29.4	27.1	31.0	35.8	39.0	40.2	42.4	41.4	-1.0	16.4	14.4	18.3	21.9	23.8	24.6	26.2	25.6	-0.6
<b>Any Illicit Drug Other Than Marijuana<sup>b</sup></b>																		
8th Grade	8.4	9.3	10.4	11.3	12.6	13.1	11.8	11.0	-0.8	3.8	4.7	5.3	5.6	6.5	6.9	6.0	5.5	-0.5
10th Grade	12.2	12.3	13.9	15.2	17.5	18.4	18.2	16.6	-1.6	5.5	5.7	6.5	7.1	8.9	8.9	8.8	8.6	-0.2
12th Grade	16.2	14.9	17.1	18.0	19.4	19.8	20.7	20.2	-0.5	7.1	6.3	7.9	8.8	10.0	9.5	10.7	10.7	0.0
<b>Any Illicit Drug Including Inhalants<sup>b,c</sup></b>																		
8th Grade	16.7	18.2	21.1	24.2	27.1	28.7	27.2	26.2	-1.0	8.8	10.0	12.0	14.3	16.1	17.5	16.0	14.9	-1.1
10th Grade	23.9	23.5	27.4	32.5	35.6	39.6	40.3	37.1	-3.2 <sub>ss</sub>	13.1	12.6	15.5	20.0	21.6	24.5	24.1	22.5	-1.6
12th Grade	31.2	28.8	32.5	37.6	40.2	41.9	43.3	42.4	-0.9	17.8	15.5	19.3	23.0	24.8	25.5	26.9	26.6	-0.3
<b>Marijuana/Hashish</b>																		
8th Grade	6.2	7.2	9.2	13.0	15.8	18.3	17.7	16.9	-0.8	3.2	3.7	5.1	7.8	9.1	11.3	10.2	9.7	-0.5
10th Grade	16.5	15.2	19.2	25.2	28.7	33.6	34.8	31.1	-3.7 <sub>sss</sub>	8.7	8.1	10.9	15.8	17.2	20.4	20.5	18.7	-1.8 <sub>s</sub>
12th Grade	23.9	21.9	26.0	30.7	34.7	35.8	38.5	37.5	-1.0	13.8	11.9	15.5	19.0	21.2	21.9	23.7	22.8	-0.9
<b>Inhalants<sup>c,d</sup></b>																		
8th Grade	9.0	9.5	11.0	11.7	12.8	12.2	11.8	11.1	-0.7	4.4	4.7	5.4	5.6	6.1	5.8	5.6	4.8	-0.8 <sub>s</sub>
10th Grade	7.1	7.5	8.4	9.1	9.6	9.5	8.7	8.0	-0.7	2.7	2.7	3.3	3.6	3.5	3.3	3.0	2.9	-0.1
12th Grade	6.6	6.2	7.0	7.7	8.0	7.6	6.7	6.2	-0.5	2.4	2.3	2.5	2.7	3.2	2.5	2.5	2.3	-0.2
<b>Nitrites<sup>e</sup></b>																		
8th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12th Grade	0.9	0.5	0.9	1.1	1.1	1.6	1.2	1.4	+0.2	0.4	0.3	0.6	0.4	0.4	0.7	0.7	1.0	+0.3
<b>Hallucinogens<sup>d</sup></b>																		
8th Grade	1.9	2.5	2.6	2.7	3.6	4.1	3.7	3.4	-0.3	0.8	1.1	1.2	1.3	1.7	1.9	1.8	1.4	-0.4
10th Grade	4.0	4.3	4.7	5.8	7.2	7.8	7.6	6.9	-0.7	1.6	1.8	1.9	2.4	3.3	2.8	3.3	3.2	-0.1
12th Grade	5.8	5.9	7.4	7.6	9.3	10.1	9.8	9.0	-0.8	2.2	2.1	2.7	3.1	4.4	3.5	3.9	3.8	-0.1
<b>LSD</b>																		
8th Grade	1.7	2.1	2.3	2.4	3.2	3.5	3.2	2.8	-0.4	0.6	0.9	1.0	1.1	1.4	1.5	1.5	1.1	-0.4 <sub>s</sub>
10th Grade	3.7	4.0	4.2	5.2	6.5	6.9	6.7	5.9	-0.8	1.5	1.6	1.6	2.0	3.0	2.4	2.8	2.7	-0.1
12th Grade	5.2	5.6	6.8	6.9	8.4	8.8	8.4	7.6	-0.8	1.9	2.0	2.4	2.6	4.0	2.5	3.1	3.2	+0.1
<b>Hallucinogens Other Than LSD</b>																		
8th Grade	0.7	1.1	1.0	1.3	1.7	2.0	1.8	1.6	-0.2	0.3	0.4	0.5	0.7	0.8	0.9	0.7	0.7	0.0
10th Grade	1.3	1.4	1.9	2.4	2.8	3.3	3.3	3.4	+0.1	0.4	0.5	0.7	1.0	1.0	1.0	1.2	1.4	+0.2
12th Grade	2.0	1.7	2.2	3.1	3.8	4.4	4.6	4.6	0.0	0.7	0.5	0.8	1.2	1.3	1.6	1.7	1.6	-0.1

(Table continued on next page)

**TABLE 1b (cont.)**  
**Trends in Annual and 30-Day Prevalence of Use of Various Drugs**  
**for Eighth, Tenth, and Twelfth Graders**

	Annual									30-Day								
	1991	1992	1993	1994	1995	1996	1997	1998	'97-'98 change <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998	'97-'98 change <sup>a</sup>
<b>PCP*</b>																		
8th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12th Grade	1.4	1.4	1.4	1.6	1.8	2.6	2.3	2.1	-0.2	0.5	0.6	1.0	0.7	0.6	1.3	0.7	1.0	+0.3
<b>MDMA (Ecstasy)*</b>																		
8th Grade	—	—	—	—	—	2.3	2.3	1.8	-0.5	—	—	—	—	—	1.0	1.0	0.9	-0.1
10th Grade	—	—	—	—	—	4.6	3.9	3.3	-0.6	—	—	—	—	—	1.8	1.3	1.3	0.0
12th Grade	—	—	—	—	—	4.6	4.0	3.6	-0.4	—	—	—	—	—	2.0	1.6	1.5	-0.1
<b>Cocaine</b>																		
8th Grade	1.1	1.5	1.7	2.1	2.6	3.0	2.8	3.1	+0.3	0.5	0.7	0.7	1.0	1.2	1.3	1.1	1.4	+0.3
10th Grade	2.2	1.9	2.1	2.8	3.5	4.2	4.7	4.7	0.0	0.7	0.7	0.9	1.2	1.7	1.7	2.0	2.1	+0.1
12th Grade	3.5	3.1	3.3	3.6	4.0	4.9	5.5	5.7	+0.2	1.4	1.3	1.3	1.5	1.8	2.0	2.3	2.4	+0.1
<b>Crack</b>																		
8th Grade	0.7	0.9	1.0	1.3	1.6	1.8	1.7	2.1	+0.4 <sup>s</sup>	0.3	0.5	0.4	0.7	0.7	0.8	0.7	0.9	+0.2
10th Grade	0.9	0.9	1.1	1.4	1.8	2.1	2.2	2.5	+0.3	0.3	0.4	0.5	0.6	0.9	0.8	0.9	1.1	+0.2
12th Grade	1.5	1.5	1.5	1.9	2.1	2.1	2.4	2.5	+0.1	0.7	0.6	0.7	0.8	1.0	1.0	0.9	1.0	+0.1
<b>Other Cocaine<sup>f</sup></b>																		
8th Grade	1.0	1.2	1.3	1.7	2.1	2.5	2.2	2.4	+0.2	0.5	0.5	0.6	0.9	1.0	1.0	0.8	1.0	+0.2
10th Grade	2.1	1.7	1.8	2.4	3.0	3.5	4.1	4.0	-0.1	0.6	0.6	0.7	1.0	1.4	1.3	1.6	1.8	+0.2
12th Grade	3.2	2.6	2.9	3.0	3.4	4.2	5.0	4.9	-0.1	1.2	1.0	1.2	1.3	1.3	1.6	2.0	2.0	0.0
<b>Heroin<sup>g</sup></b>																		
8th Grade	0.7	0.7	0.7	1.2	1.4	1.6	1.3	1.3	0.0	0.3	0.4	0.4	0.6	0.6	0.7	0.6	0.6	0.0
10th Grade	0.5	0.6	0.7	0.9	1.1	1.2	1.4	1.4	0.0	0.2	0.2	0.3	0.4	0.6	0.5	0.6	0.7	+0.1
12th Grade	0.4	0.6	0.5	0.6	1.1	1.0	1.2	1.0	-0.2	0.2	0.3	0.2	0.3	0.6	0.5	0.5	0.5	0.0
<b>Other Opiates<sup>h</sup></b>																		
8th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12th Grade	3.5	3.3	3.6	3.8	4.7	5.4	6.2	6.3	+0.1	1.1	1.2	1.3	1.5	1.8	2.0	2.3	2.4	+0.1
<b>Stimulants<sup>h</sup></b>																		
8th Grade	6.2	6.5	7.2	7.9	8.7	9.1	8.1	7.2	-0.9	2.6	3.3	3.6	3.6	4.2	4.6	3.8	3.3	-0.5
10th Grade	8.2	8.2	9.6	10.2	11.9	12.4	12.1	10.7	-1.4 <sup>s</sup>	3.3	3.6	4.3	4.5	5.3	5.5	5.1	5.1	0.0
12th Grade	8.2	7.1	8.4	9.4	9.3	9.5	10.2	10.1	-0.1	3.2	2.8	3.7	4.0	4.0	4.1	4.8	4.6	-0.2
<b>Ice<sup>i</sup></b>																		
8th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12th Grade	1.4	1.3	1.7	1.8	2.4	2.8	2.3	3.0	+0.7	0.6	0.5	0.6	0.7	1.1	1.1	0.8	1.2	+0.4

(Table continued on next page)

**TABLE 1b (cont.)**  
**Trends in Annual and 30-Day Prevalence of Use of Various Drugs**  
**for Eighth, Tenth, and Twelfth Graders**

	Annual									30-Day									
	1991	1992	1993	1994	1995	1996	1997	1998	'97-'98 change <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998	'97-'98 change <sup>a</sup>	
<b>Barbiturates<sup>b</sup></b>																			
8th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
10th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
12th Grade	3.4	2.8	3.4	4.1	4.7	4.9	5.1	5.5	+0.4	1.4	1.1	1.3	1.7	2.2	2.1	2.1	2.6	+0.5s	
<b>Tranquilizers<sup>b</sup></b>																			
8th Grade	1.8	2.0	2.1	2.4	2.7	3.3	2.9	2.6	-0.3	0.8	0.8	0.9	1.1	1.2	1.5	1.2	1.2	0.0	
10th Grade	3.2	3.5	3.3	3.3	4.0	4.6	4.9	5.1	+0.2	1.2	1.5	1.1	1.5	1.7	1.7	2.2	2.2	0.0	
12th Grade	3.6	2.8	3.5	3.7	4.4	4.6	4.7	5.5	+0.8s	1.4	1.0	1.2	1.4	1.8	2.0	1.8	2.4	+0.6ss	
<b>Alcohol<sup>f</sup></b>																			
Any use																			
8th Grade	54.0	53.7	51.6	—	—	—	—	—	—	25.1	26.1	26.2	—	—	—	—	—	—	
10th Grade	72.3	70.2	69.3	45.4	46.8	45.3	46.5	45.5	43.7	-1.8	42.8	39.9	41.5	25.5	24.6	26.2	24.5	23.0	-1.5
12th Grade	77.7	76.8	63.4	63.9	63.5	65.0	65.2	62.7	-2.5s	54.0	51.3	38.2	39.2	38.8	40.4	40.1	38.8	-1.3	
			72.7	73.0	73.7	72.5	74.8	74.3	-0.5			48.6	50.1	51.3	50.8	52.7	52.0	-0.7	
<b>Been Drunk<sup>i</sup></b>																			
8th Grade	17.5	18.3	18.2	18.2	18.4	19.8	18.4	17.9	-0.5	7.6	7.5	7.8	8.7	8.3	9.6	8.2	8.4	+0.2	
10th Grade	40.1	37.0	37.8	38.0	38.5	40.1	40.7	38.3	-2.4s	20.5	18.1	19.8	20.3	20.8	21.3	22.4	21.1	-1.3	
12th Grade	52.7	50.3	49.6	51.7	52.5	51.9	53.2	52.0	-1.2	31.6	29.9	28.9	30.8	33.2	31.3	34.2	32.9	-1.3	
<b>Cigarettes</b>																			
Any use																			
8th Grade	—	—	—	—	—	—	—	—	—	14.3	15.5	16.7	18.6	19.1	21.0	19.4	19.1	-0.3	
10th Grade	—	—	—	—	—	—	—	—	—	20.8	21.5	24.7	25.4	27.9	30.4	29.8	27.6	-2.2s	
12th Grade	—	—	—	—	—	—	—	—	—	28.3	27.8	29.9	31.2	33.5	34.0	36.5	35.1	-1.4	
<b>Smokeless Tobacco<sup>*</sup></b>																			
8th Grade	—	—	—	—	—	—	—	—	—	6.9	7.0	6.6	7.7	7.1	7.1	5.5	4.8	-0.7	
10th Grade	—	—	—	—	—	—	—	—	—	10.0	9.6	10.4	10.5	9.7	8.6	8.9	7.5	-1.4	
12th Grade	—	—	—	—	—	—	—	—	—	—	11.4	10.7	11.1	12.2	9.8	9.7	8.8	-0.9	
<b>Steroids<sup>i</sup></b>																			
8th Grade	1.0	1.1	0.9	1.2	1.0	0.9	1.0	1.2	+0.2	0.4	0.5	0.5	0.5	0.6	0.4	0.5	0.5	0.0	
10th Grade	1.1	1.1	1.0	1.1	1.2	1.2	1.2	1.2	0.0	0.6	0.6	0.5	0.6	0.6	0.5	0.7	0.6	-0.1	
12th Grade	1.4	1.1	1.2	1.3	1.5	1.4	1.4	1.7	+0.3	0.8	0.6	0.7	0.9	0.7	0.7	1.0	1.1	+0.1	

(Table continued on next page)

**TABLE 1c**

**Trends in 30-Day Prevalence of Daily Use of Various Drugs for Eighth, Tenth, and Twelfth Graders**

	<u>Daily</u>								'97-'98 change <sup>a</sup>
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	
<b>Marijuana/Hashish<sup>b</sup></b>									
8th Grade	0.2	0.2	0.4	0.7	0.8	1.5	1.1	1.1	0.0
10th Grade	0.8	0.8	1.0	2.2	2.8	3.5	3.7	3.6	-0.1
12th Grade	2.0	1.9	2.4	3.6	4.6	4.9	5.8	5.6	-0.2
<b>Alcohol<sup>b,k</sup></b>									
Any daily use									
8th Grade	0.5	0.6	0.8	—	—	—	—	—	—
10th Grade	1.3	1.2	1.6	1.0	0.7	1.0	0.8	0.9	+0.1 <sup>j</sup>
12th Grade	3.6	3.4	1.8	1.7	1.7	1.6	1.7	1.9	+0.2 <sup>j</sup>
			3.4	2.9	3.5	3.7	3.9	3.9	0.0 <sup>j</sup>
<b>5+ drinks in last 2 weeks</b>									
8th Grade	12.9	13.4	13.5	14.5	14.5	15.6	14.5	13.7	-0.8
10th Grade	22.9	21.1	23.0	23.6	24.0	24.8	25.1	24.3	-0.8
12th Grade	29.8	27.9	27.5	28.2	29.8	30.2	31.3	31.5	+0.2
<b>Cigarettes</b>									
Any daily use									
8th Grade	7.2	7.0	8.3	8.8	9.3	10.4	9.0	8.8	-0.2
10th Grade	12.6	12.3	14.2	14.6	16.3	18.3	18.0	15.8	-2.2 <sup>ss</sup>
12th Grade	18.5	17.2	19.0	19.4	21.6	22.2	24.6	22.4	-2.2 <sup>s</sup>
1/2 pack+/day									
8th Grade	3.1	2.9	3.5	3.6	3.4	4.3	3.5	3.6	+0.1
10th Grade	6.5	6.0	7.0	7.6	8.3	9.4	8.6	7.9	-0.7
12th Grade	10.7	10.0	10.9	11.2	12.4	13.0	14.3	12.6	-1.7 <sup>s</sup>
<b>Smokeless Tobacco<sup>c</sup></b>									
8th Grade	1.6	1.8	1.5	1.9	1.2	1.5	1.0	1.0	+0.1
10th Grade	3.3	3.0	3.3	3.0	2.7	2.2	2.2	2.2	0.0
12th Grade	—	4.3	3.3	3.9	3.6	3.3	4.4	3.2	-1.2

(Footnotes are on the next page)

NOTES: Level of significance of difference between the two years:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ .  
 '—' indicates data not available. '\*' indicates less than .05 percent but greater than 0 percent.

SOURCE: The Monitoring the Future Study, the University of Michigan.

Approximate Weighted Ns	1991	1992	1993	1994	1995	1996	1997	1998
8th Grade	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100
10th Grade	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000
12th Grade	15,000	15,800	16,300	15,400	15,400	14,300	15,400	15,200

<sup>a</sup> Any apparent inconsistency between the change estimate and the prevalence estimates for the two years is due to rounding error.

<sup>b</sup> For 12th graders only: Use of "any illicit drug" includes any use of marijuana, LSD, other hallucinogens, crack, other cocaine, or heroin, or any use of other opiates, stimulants, barbiturates, or tranquilizers not under a doctor's orders. For 8th and 10th graders: The use of other opiates and barbiturates has been excluded, because these younger respondents appear to overreport use (perhaps because they include the use of nonprescription drugs in their answers).

<sup>c</sup> For 12th graders only: Data based on five of six forms; N is five-sixths of N indicated.

<sup>d</sup> Inhalants are unadjusted for underreporting of amyl and butyl nitrites; hallucinogens are unadjusted for underreporting of PCP.

<sup>e</sup> For 8th and 10th graders only: Smokeless tobacco data based on one of two forms for 1991–96 and on two of four forms beginning in 1997; N is one-half of N indicated. MDMA data based on one-third of N indicated due to changes on the questionnaire forms. For 12th graders only: Data based on one form; N is one-sixth of N indicated.

<sup>f</sup> For 12th graders only: Data based on four of six forms; N is four-sixths of N indicated.

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

<sup>h</sup> Only drug use which was not under a doctor's orders is included here.

<sup>i</sup> For 12th graders only: Data based on two of six forms; N is two-sixths of N indicated.

<sup>j</sup> For all grades: In 1993, the question text was changed slightly in half of the forms to indicate that a "drink" meant "more than a few sips." The data in the upper line for alcohol came from forms using the original wording, while the data in the lower line came from forms using the revised wording. In 1993, each line of data was based on one of two forms for the 8th and 10th graders and on three of six forms for the 12th graders. N is one-half of N indicated for all groups. Data for 1994–98 were based on all forms for all grades.

<sup>k</sup> Daily use is defined as use on twenty or more occasions in the past thirty days except for 5+ drinks, cigarettes, and smokeless tobacco, for which actual daily use is measured.

TABLE 2

Long-Term Trends in Lifetime Prevalence of Use of Various Drugs for Twelfth Graders

	Percent ever used																							'97-'98 change		
	Class of 1975	Class of 1976	Class of 1977	Class of 1978	Class of 1979	Class of 1980	Class of 1981	Class of 1982	Class of 1983	Class of 1984	Class of 1985	Class of 1986	Class of 1987	Class of 1988	Class of 1989	Class of 1990	Class of 1991	Class of 1992	Class of 1993	Class of 1994	Class of 1995	Class of 1996	Class of 1997		Class of 1998	
Approx. N =	9400	15400	17100	17800	15500	15900	17500	17700	16300	15900	16000	15200	16300	16300	16700	15200	15000	15800	16300	15400	15400	14300	15400	15200		
Any Illicit Drug <sup>a,b</sup>	55.2	58.3	61.6	64.1	65.1	65.4	65.6	64.4	62.9	61.6	60.6	57.6	56.6	53.9	50.9	47.9	44.1	40.7	42.9	45.6	48.4	50.8	54.3	54.1	-0.2	
Any Illicit Drug Other Than Marijuana <sup>a,b</sup>	36.2	35.4	35.8	36.5	37.4	38.7	42.8	41.1	40.4	40.3	39.7	37.7	35.8	32.5	31.4	29.4	26.9	25.1	26.7	27.6	28.1	28.5	30.0	29.4	-0.6	
Marijuana/Hashish	47.3	52.8	56.4	59.2	60.4	60.3	59.5	58.7	57.0	54.9	54.2	50.9	50.2	47.2	43.7	40.7	36.7	32.6	35.3	38.2	41.7	44.9	49.6	49.1	-0.5	
Inhalants <sup>c</sup>	—	10.3	11.1	12.0	12.7	11.9	12.3	12.8	13.6	14.4	15.4	15.9	17.0	16.7	17.6	18.0	17.6	16.6	17.4	17.7	17.4	16.6	16.1	15.2	-0.9	
Inhalants, Adjusted <sup>d</sup> Amyl/Butyl Nitrites <sup>e,f</sup>	—	—	—	—	18.2	17.3	17.2	17.7	18.2	18.0	18.1	20.1	18.6	17.5	18.6	18.5	18.0	17.0	17.7	18.3	17.8	17.5	16.9	16.5	-0.4	
Hallucinogens	16.3	15.1	13.9	14.3	14.1	13.3	13.3	12.5	11.9	10.7	10.3	9.7	10.3	8.9	9.4	9.4	9.6	9.2	10.9	11.4	12.7	14.0	15.1	14.1	-1.0	
Hallucinogens, Adjusted <sup>g</sup> LSD	—	—	—	—	17.7	15.6	15.3	14.3	13.6	12.3	12.1	11.9	10.6	9.2	9.9	9.7	10.0	9.4	11.3	11.7	13.1	14.5	15.4	14.4	-1.0	
PCP <sup>e,f</sup>	11.3	11.0	9.8	9.7	9.5	9.3	9.8	9.6	8.9	8.0	7.5	7.2	8.4	7.7	8.3	8.7	8.8	8.6	10.3	10.5	11.7	12.6	13.6	12.6	-1.0	
MDMA (Ecstasy) <sup>g</sup>	—	—	—	—	12.8	9.6	7.8	6.0	5.6	5.0	4.9	4.8	3.0	2.9	3.9	2.8	2.9	2.4	2.9	2.8	2.7	4.0	3.9	3.9	0.0	
Cocaine	9.0	9.7	10.8	12.9	15.4	15.7	16.5	16.0	16.2	16.1	17.3	16.9	15.2	12.1	10.3	9.4	7.8	6.1	6.1	5.9	6.0	7.1	8.7	9.3	+0.6	
Crack <sup>h</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	5.4	4.8	4.7	3.5	3.1	2.6	2.6	3.0	3.0	3.3	3.9	4.4	+0.5
Other Cocaine <sup>i</sup>	—	—	—	—	—	—	—	—	—	—	—	—	14.0	12.1	8.5	8.6	7.0	5.3	5.4	5.2	5.1	6.4	8.2	8.4	+0.2	
Heroin <sup>j</sup>	2.2	1.8	1.8	1.6	1.1	1.1	1.1	1.2	1.2	1.3	1.2	1.1	1.2	1.1	1.3	1.3	0.9	1.2	1.1	1.2	1.6	1.8	2.1	2.0	-0.1	
Other Opiates <sup>k</sup>	9.0	9.6	10.3	9.9	10.1	9.8	10.1	9.6	9.4	9.7	10.2	9.0	9.2	8.6	8.3	8.3	6.6	6.1	6.4	6.6	7.2	8.2	9.7	9.8	+0.1	
Stimulants <sup>b,h</sup>	22.3	22.6	23.0	22.9	24.2	26.4	32.2	27.9	26.9	27.9	26.2	23.4	21.6	19.8	19.1	17.5	15.4	13.9	15.1	15.7	15.3	15.3	16.5	16.4	-0.1	
Crystal Meth. (Ice) <sup>l</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.7	3.3	2.9	3.1	3.4	3.9	4.4	4.4	5.3	+0.9	
Sedatives <sup>k,m</sup>	18.2	17.7	17.4	16.0	14.6	14.9	16.0	15.2	14.4	13.3	11.8	10.4	8.7	7.8	7.4	7.5	6.7	6.1	6.4	7.3	7.6	8.2	8.7	9.2	+0.5	
Barbiturates <sup>n</sup>	16.9	16.2	15.6	13.7	11.8	11.0	11.3	10.3	9.9	9.9	9.2	8.4	7.4	6.7	6.5	6.8	6.2	5.5	6.3	7.0	7.4	7.6	8.1	8.7	+0.6	
Methaqualone <sup>k,m</sup>	8.1	7.8	8.5	7.9	8.3	9.5	10.6	10.7	10.1	8.3	6.7	5.2	4.0	3.3	2.7	2.3	1.3	1.6	0.8	1.4	1.2	2.0	1.7	1.6	-0.1	
Tranquilizers <sup>k</sup>	17.0	16.8	18.0	17.0	16.3	15.2	14.7	14.0	13.3	12.4	11.9	10.9	10.9	9.4	7.6	7.2	7.2	6.0	6.4	6.6	7.1	7.2	7.8	8.5	+0.7	
Alcohol <sup>n</sup>	90.4	91.9	92.5	93.1	93.0	93.2	92.6	92.8	92.6	92.6	92.2	91.3	92.2	92.0	90.7	89.5	88.0	87.5	87.0	—	—	—	—	—	—	
Been Drunk <sup>l</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.0	80.4	80.7	79.2	81.7	81.4	—	-0.3	
Cigarettes	73.6	75.4	75.7	75.3	74.0	71.0	71.0	70.1	70.6	69.7	68.8	67.6	67.2	66.4	65.7	64.4	63.1	61.8	61.9	62.0	64.2	63.5	65.4	65.3	-0.1	
Smokeless Tobacco <sup>o,p</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	65.4	63.4	62.5	62.9	63.2	61.8	64.2	62.4	-1.8
Steroids <sup>l</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.4	31.0	30.7	30.9	29.8	25.3	26.2	+0.9	
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.0	2.9	2.1	2.1	2.0	2.4	2.3	1.9	2.4	2.7	+0.3	

NOTES: Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available.  
SOURCE: The Monitoring the Future Study, the University of Michigan.

## Footnotes for Table 2-Table 5

<sup>a</sup>Use of "any illicit drug" includes any use of marijuana, LSD, other hallucinogens, crack, other cocaine, or heroin, or any use of other opiates, stimulants, barbiturates, methaqualone (excluded since 1990), or tranquilizers not under a doctor's orders.

<sup>b</sup>Beginning in 1982 the question about stimulant use (i.e., amphetamines) was revised to get respondents to exclude the inappropriate reporting of non-prescription stimulants. The prevalence rate dropped slightly as a result of this methodological change.

<sup>c</sup>Data based on four of five forms in 1976-88; N is four-fifths of N indicated. Data based on five of six forms in 1989-98; N is five-sixths of N indicated.

<sup>d</sup>Adjusted for underreporting of amyl and butyl nitrites. See text for details.

<sup>e</sup>Data based on one form; N is one-fifth of N indicated in 1979-88 and one-sixth of N indicated in 1989-98.

<sup>f</sup>Question text changed slightly in 1987.

<sup>g</sup>Adjusted for underreporting of PCP. See text for details.

<sup>h</sup>Data based on one of five forms in 1986; N is one-fifth of N indicated. Data based on two forms in 1987-89; N is two-fifths of N indicated in 1987-88 and two-sixths of N indicated in 1989. Data based on six forms in 1990-98.

<sup>i</sup>Data based on one form in 1987-89; N is one-fifth of N indicated in 1987-88 and one-sixth of N indicated in 1989. Data based on four of six forms in 1990-98; N is four-sixths of N indicated.

<sup>j</sup>In 1995 the heroin question was changed in half of the questionnaire forms. Separate questions were asked for use with injection and without injection. Data presented here represent the combined data from all forms.

<sup>k</sup>Only drug use which was not under a doctor's orders is included here.

<sup>l</sup>Data based on two of six forms; N is two-sixths of N indicated. Steroid data based on one of six forms in 1989-90; N is one-sixth of N indicated in 1989-90. Steroid data based on two of six forms since 1991; N is two-sixths of N indicated since 1991.

<sup>m</sup>Sedatives: Data based on five forms in 1975-88, six forms in 1989, one form in 1990 (N is one-sixth of N indicated in 1990), and six forms of data adjusted by one-form data beginning in 1991. Methaqualone: Data based on five forms in 1975-88, six forms in 1989, and one of six forms beginning in 1990 (N is one-sixth of N indicated beginning in 1990).

<sup>n</sup>Data based on five forms in 1975-88 and on six forms in 1989-92. In 1993, the question text was changed slightly in three of six forms to indicate that a "drink" meant "more than a few sips." The data in the upper line for alcohol came from the three forms using the original wording (N is three-sixths of N indicated), while the data in the lower line came from the three forms containing the revised wording (N is three-sixths of N indicated). Data for 1994-98 were based on all six forms.

<sup>o</sup>Prevalence of smokeless tobacco was not asked of twelfth graders in 1990 and 1991. Prior to 1990 the prevalence question on smokeless tobacco was located near the end of one twelfth-grade questionnaire form, whereas after 1991 the question was placed earlier and in a different form. This shift could explain the discontinuities between the corresponding data.

SOURCE: The Monitoring the Future Study, the University of Michigan.

**TABLE 3**

**Long-Term Trends in Annual Prevalence of Use of Various Drugs for Twelfth Graders**

Percent who used in last twelve months

	Class of 1975	Class of 1976	Class of 1977	Class of 1978	Class of 1979	Class of 1980	Class of 1981	Class of 1982	Class of 1983	Class of 1984	Class of 1985	Class of 1986	Class of 1987	Class of 1988	Class of 1989	Class of 1990	Class of 1991	Class of 1992	Class of 1993	Class of 1994	Class of 1995	Class of 1996	Class of 1997	Class of 1998	'97-'98 change	
Approx. N =	9400	15400	17100	17800	15500	15900	17500	17700	16300	15900	16000	15200	16300	16300	16700	15200	15000	15800	16300	15400	15400	14300	15400	15200		
Any Illicit Drug <sup>a,b</sup>	45.0	48.1	51.1	53.8	54.2	53.1	52.1	49.4	47.4	45.8	46.3	44.3	41.7	38.5	35.4	32.5	29.4	27.1	31.0	35.8	39.0	40.2	42.4	41.4	-1.0	
Any Illicit Drug Other Than Marijuana <sup>a,b</sup>	26.2	25.4	26.0	27.1	28.2	30.4	34.0	30.1	28.4	28.0	27.4	25.9	24.1	21.1	20.0	17.9	16.2	14.9	17.1	18.0	19.4	19.8	20.7	20.2	-0.5	
Marijuana/Hashish	40.0	44.5	47.6	50.2	50.8	48.8	46.1	44.3	42.3	40.0	40.6	38.8	36.3	33.1	29.6	27.0	23.9	21.9	26.0	30.7	34.7	35.8	38.5	37.5	-1.0	
Inhalants <sup>c</sup>	—	3.0	3.7	4.1	5.4	4.6	4.1	4.5	4.3	5.1	5.7	6.1	6.9	6.5	5.9	6.9	6.6	6.2	7.0	7.7	8.0	7.6	6.7	6.2	-0.5	
Inhalants, Adjusted <sup>c,d</sup>	—	—	—	—	8.9	7.9	6.1	6.6	6.2	7.2	7.5	8.9	8.1	7.1	6.9	7.5	6.9	6.4	7.4	8.2	8.4	8.5	7.3	7.1	-0.2	
Amyl/Butyl Nitrites <sup>e,f</sup>	—	—	—	—	6.5	5.7	3.7	3.6	3.6	4.0	4.0	4.7	2.6	1.7	1.7	1.4	0.9	0.5	0.9	1.1	1.1	1.6	1.2	1.4	+0.2	
Hallucinogens	11.2	9.4	8.8	9.6	9.9	9.3	9.0	8.1	7.3	6.5	6.3	6.0	6.4	5.5	5.6	5.9	5.8	5.9	7.4	7.6	9.3	10.1	9.8	9.0	-0.8	
Hallucinogens, Adjusted <sup>g</sup>	—	—	—	—	11.8	10.4	10.1	9.0	8.3	7.3	7.6	7.6	6.7	5.8	6.2	6.0	6.1	6.2	7.8	7.8	9.7	10.7	10.0	9.2	-0.8	
LSD	7.2	6.4	5.5	6.3	6.6	6.5	6.5	6.1	5.4	4.7	4.4	4.5	5.2	4.8	4.9	5.4	5.2	5.6	6.8	6.9	8.4	8.8	8.4	7.6	-0.8	
PCP <sup>o,f</sup>	—	—	—	—	7.0	4.4	3.2	2.2	2.6	2.3	2.9	2.4	1.3	1.2	2.4	1.2	1.4	1.4	1.4	1.6	1.8	2.6	2.3	2.1	-0.2	
MDMA (Ecstasy) <sup>g</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.6	4.0	3.6	-0.4	
Cocaine	5.6	6.0	7.2	9.0	12.0	12.3	12.4	11.5	11.4	11.6	13.1	12.7	10.3	7.9	6.5	5.3	3.5	3.1	3.3	3.6	4.0	4.9	5.5	5.7	+0.2	
Crack <sup>h</sup>	—	—	—	—	—	—	—	—	—	—	—	4.1	3.9	3.1	3.1	1.9	1.5	1.5	1.5	1.9	2.1	2.1	2.4	2.5	+0.1	
Other Cocaine <sup>i</sup>	—	—	—	—	—	—	—	—	—	—	—	—	9.8	7.4	5.2	4.6	3.2	2.6	2.9	3.0	3.4	4.2	5.0	4.9	-0.1	
Heroin <sup>j</sup>	1.0	0.8	0.8	0.8	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.6	0.5	0.4	0.6	0.5	0.6	1.1	1.0	1.2	1.0	-0.2	
Other Opiates <sup>k</sup>	5.7	5.7	6.4	6.0	6.2	6.3	5.9	5.3	5.1	5.2	5.9	5.2	5.3	4.6	4.4	4.5	3.5	3.3	3.6	3.8	4.7	5.4	6.2	6.3	+0.1	
Stimulants <sup>h,k</sup>	16.2	15.8	16.3	17.1	18.3	20.8	26.0	20.3	17.9	17.7	15.8	13.4	12.2	10.9	10.8	9.1	8.2	7.1	8.4	9.4	9.3	9.5	10.2	10.1	-0.1	
Crystal Meth. (Ice) <sup>l</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.3	1.4	1.3	1.7	1.8	2.4	2.8	2.3	3.0	+0.7	
Sedatives <sup>k,m</sup>	11.7	10.7	10.8	9.9	9.9	10.3	10.5	9.1	7.9	6.6	5.8	5.2	4.1	3.7	3.7	3.6	3.6	2.9	3.4	4.2	4.9	5.3	5.4	6.0	+0.6	
Barbiturates <sup>k</sup>	10.7	9.6	9.3	8.1	7.5	6.8	6.6	5.5	5.2	4.9	4.6	4.2	3.6	3.2	3.3	3.4	3.4	2.8	3.4	4.1	4.7	4.9	5.1	5.5	+0.4	
Methaqualone <sup>k,m</sup>	5.1	4.7	5.2	4.9	5.9	7.2	7.6	6.8	5.4	3.8	2.8	2.1	1.5	1.3	1.3	0.7	0.5	0.6	0.2	0.8	0.7	1.1	1.0	1.1	+0.1	
Tranquilizers <sup>k</sup>	10.6	10.3	10.8	9.9	9.6	8.7	8.0	7.0	6.9	6.1	6.1	5.8	5.5	4.8	3.8	3.5	3.6	2.8	3.5	3.7	4.4	4.6	4.7	5.5	+0.8s	
Alcohol <sup>n</sup>	84.8	85.7	87.0	87.7	88.1	87.9	87.0	86.8	87.3	86.0	85.6	84.5	85.7	85.3	82.7	80.6	77.7	76.8	76.0	—	—	—	—	—	—	
Been Drunk <sup>l</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52.7	50.3	49.6	51.7	52.5	51.9	53.2	52.0	-1.2	
Cigarettes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Smokeless Tobacco <sup>o,o</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Steroids <sup>l</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.9	1.7	1.4	1.1	1.2	1.3	1.5	1.4	1.4	1.7	+0.3	

NOTES: Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. See Table 2 for relevant footnotes.  
 SOURCE: The Monitoring the Future Study, the University of Michigan.



TABLE 4

Long-Term Trends in Thirty-Day Prevalence of Use of Various Drugs for Twelfth Graders

Percent who used in last thirty days

	Class of 1975	Class of 1976	Class of 1977	Class of 1978	Class of 1979	Class of 1980	Class of 1981	Class of 1982	Class of 1983	Class of 1984	Class of 1985	Class of 1986	Class of 1987	Class of 1988	Class of 1989	Class of 1990	Class of 1991	Class of 1992	Class of 1993	Class of 1994	Class of 1995	Class of 1996	Class of 1997	Class of 1998	'97-'98 change	
Approx. N =	9400	15400	17100	17800	15500	15900	17500	17700	16300	15900	16000	15200	16300	16300	16700	15200	15000	15800	16300	15400	15400	14300	15400	15200		
Any Illicit Drug <sup>a,b</sup>	30.7	34.2	37.6	38.9	38.9	37.2	36.9	32.5	30.5	29.2	29.7	27.1	24.7	21.3	19.7	17.2	16.4	14.4	18.3	21.9	23.8	24.6	26.2	25.6	-0.6	
Any Illicit Drug Other Than Marijuana <sup>a,b</sup>	15.4	13.9	15.2	15.1	16.8	18.4	21.7	17.0	15.4	15.1	14.9	13.2	11.6	10.0	9.1	8.0	7.1	6.3	7.9	8.8	10.0	9.5	10.7	10.7	0.0	
Marijuana/Hashish	27.1	32.2	35.4	37.1	36.5	33.7	31.6	28.5	27.0	25.2	25.7	23.4	21.0	18.0	16.7	14.0	13.8	11.9	15.5	19.0	21.2	21.9	23.7	22.8	-0.9	
Inhalants <sup>c</sup>	—	0.9	1.3	1.5	1.7	1.4	1.5	1.5	1.7	1.9	2.2	2.5	2.8	2.6	2.3	2.7	2.4	2.3	2.5	2.7	3.2	2.5	2.5	2.3	-0.2	
Inhalants, Adjusted <sup>c,d</sup>	—	—	—	—	3.2	2.7	2.5	2.5	2.5	2.6	3.0	3.2	3.5	3.0	2.7	2.9	2.6	2.5	2.8	2.9	3.5	2.9	2.9	3.1	+0.2	
Amyl/Butyl Nitrites <sup>c,f</sup>	—	—	—	—	2.4	1.8	1.4	1.1	1.4	1.4	1.6	1.3	1.3	0.6	0.6	0.6	0.4	0.3	0.6	0.4	0.4	0.7	0.7	1.0	+0.3	
Hallucinogens	4.7	3.4	4.1	3.9	4.0	3.7	3.7	3.4	2.8	2.6	2.5	2.5	2.5	2.2	2.2	2.2	2.2	2.1	2.7	3.1	4.4	3.5	3.9	3.8	-0.1	
Hallucinogens, Adjusted <sup>g</sup>	—	—	—	—	5.3	4.4	4.5	4.1	3.5	3.2	3.8	3.5	2.8	2.3	2.9	2.3	2.4	2.3	3.3	3.2	4.6	3.8	4.1	4.1	0.0	
LSD	2.3	1.9	2.1	2.1	2.4	2.3	2.5	2.4	1.9	1.5	1.6	1.7	1.8	1.8	1.8	1.9	1.9	2.0	2.4	2.6	4.0	2.5	3.1	3.2	+0.1	
PCP <sup>e,f</sup>	—	—	—	—	2.4	1.4	1.4	1.0	1.3	1.0	1.6	1.3	0.6	0.3	1.4	0.4	0.5	0.6	1.0	0.7	0.6	1.3	0.7	1.0	+0.3	
MDMA (Ecstasy) <sup>g</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.0	1.6	1.5	-0.1	
Cocaine	1.9	2.0	2.9	3.9	5.7	5.2	5.8	5.0	4.9	5.8	6.7	6.2	4.3	3.4	2.8	1.9	1.4	1.3	1.3	1.5	1.8	2.0	2.3	2.4	+0.1	
Crack <sup>h</sup>	—	—	—	—	—	—	—	—	—	—	—	—	1.3	1.6	1.4	0.7	0.7	0.6	0.7	0.8	1.0	1.0	0.9	1.0	+0.1	
Other Cocaine <sup>i</sup>	—	—	—	—	—	—	—	—	—	—	—	—	4.1	3.2	1.9	1.7	1.2	1.0	1.2	1.3	1.3	1.6	2.0	2.0	0.0	
Heroin <sup>j</sup>	0.4	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.6	0.5	0.5	0.5	0.0	
Other Opiates <sup>k</sup>	2.1	2.0	2.8	2.1	2.4	2.4	2.1	1.8	1.8	1.8	2.3	2.0	1.8	1.6	1.6	1.5	1.1	1.2	1.3	1.5	1.8	2.0	2.3	2.4	+0.1	
Stimulants <sup>b,k</sup>	8.5	7.7	8.8	8.7	9.9	12.1	15.8	10.7	8.9	8.3	6.8	5.5	5.2	4.6	4.2	3.7	3.2	2.8	3.7	4.0	4.0	4.1	4.8	4.6	-0.2	
Crystal Meth. (Ice) <sup>l</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.6	0.6	0.5	0.6	0.7	1.1	1.1	0.8	1.2	+0.4	
Sedatives <sup>k,m</sup>	5.4	4.5	5.1	4.2	4.4	4.8	4.6	3.4	3.0	2.3	2.4	2.2	1.7	1.4	1.6	1.4	1.5	1.2	1.3	1.8	2.3	2.3	2.1	2.8	+0.7ss	
Barbiturates <sup>k</sup>	4.7	3.9	4.3	3.2	3.2	2.9	2.6	2.0	2.1	1.7	2.0	1.8	1.4	1.2	1.4	1.3	1.4	1.1	1.3	1.7	2.2	2.1	2.1	2.6	+0.5s	
Methaqualone <sup>k,m</sup>	2.1	1.6	2.3	1.9	2.3	3.3	3.1	2.4	1.8	1.1	1.0	0.8	0.6	0.5	0.6	0.2	0.2	0.4	0.1	0.4	0.4	0.6	0.3	0.6	+0.3	
Tranquilizers <sup>k</sup>	4.1	4.0	4.6	3.4	3.7	3.1	2.7	2.4	2.5	2.1	2.1	2.1	2.0	1.5	1.3	1.2	1.4	1.0	1.2	1.4	1.8	2.0	1.8	2.4	+0.6ss	
Alcohol <sup>n</sup>	68.2	68.3	71.2	72.1	71.8	72.0	70.7	69.7	69.4	67.2	65.9	65.3	66.4	63.9	60.0	57.1	54.0	51.3	51.0	—	—	—	—	—	—	
Been Drunk <sup>l</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	48.6	50.1	51.3	50.8	52.7	52.0	-0.7	
Cigarettes	36.7	38.8	38.4	36.7	34.4	30.5	29.4	30.0	30.3	29.3	30.1	29.6	29.4	28.7	28.6	29.4	28.3	27.8	29.9	31.2	33.5	34.0	36.5	35.1	-1.4	
Smokeless Tobacco <sup>o,o</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.6	29.9	28.9	30.8	33.2	31.3	34.2	-1.3
Steroids <sup>l</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.4	10.7	11.1	12.2	9.8	9.7	8.8	-0.9
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.8	1.0	0.8	0.6	0.7	0.9	0.7	0.7	1.0	1.1	+0.1	

NOTES: Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. See Table 2 for relevant footnotes.  
 SOURCE: The Monitoring the Future Study, the University of Michigan.

TABLE 5

Long-Term Trends in Thirty-Day Prevalence of Daily Use of Various Drugs for Twelfth Graders

Percent who used daily in last thirty days

	Class of 1975	Class of 1976	Class of 1977	Class of 1978	Class of 1979	Class of 1980	Class of 1981	Class of 1982	Class of 1983	Class of 1984	Class of 1985	Class of 1986	Class of 1987	Class of 1988	Class of 1989	Class of 1990	Class of 1991	Class of 1992	Class of 1993	Class of 1994	Class of 1995	Class of 1996	Class of 1997	Class of 1998	'97-'98 change		
Approx. N =	9400	15400	17100	17800	15500	15900	17500	17700	16300	15900	16000	15200	16300	16700	15200	15000	15800	16300	15400	15400	14300	15400	15200				
Marijuana/Hashish	6.0	8.2	9.1	10.7	10.3	9.1	7.0	6.3	5.5	5.0	4.9	4.0	3.3	2.7	2.9	2.2	2.0	1.9	2.4	3.6	4.6	4.9	5.8	5.6	-0.2		
Inhalants <sup>c</sup>	—	*	*	0.1	*	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	+0.1	
Amyl/Butyl Nitrites <sup>e,f</sup>	—	—	—	—	*	0.1	0.1	0.0	0.2	0.1	0.3	0.5	0.3	0.1	0.3	0.1	0.2	0.1	0.1	0.2	0.2	0.4	0.1	0.3	+0.3s		
Hallucinogens	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	-0.2ss	
LSD	*	*	*	*	*	*	0.1	*	0.1	0.1	0.1	*	0.1	*	*	0.1	0.1	0.1	0.1	0.1	0.1	*	0.2	0.1	-0.1ss		
PCP <sup>e,f</sup>	—	—	—	—	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.1	0.3	+0.2	
MDMA (Ecstasy) <sup>g</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0	0.1	0.2	0.0	
Cocaine	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.0	
Crack <sup>h</sup>	—	—	—	—	—	—	—	—	—	—	—	—	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.0	
Other Cocaine <sup>i</sup>	—	—	—	—	—	—	—	—	—	—	—	—	0.2	0.2	0.1	0.1	0.1	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	+0.1	
Heroin <sup>j</sup>	0.1	*	*	*	*	*	*	*	0.1	*	*	*	*	*	0.1	*	*	*	*	*	*	0.1	0.1	0.1	0.1	0.0	
Other Opiates <sup>k</sup>	0.1	0.1	0.2	0.1	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	*	*	0.1	0.1	0.2	0.2	0.1	-0.1		
Stimulants <sup>b,k</sup>	0.5	0.4	0.5	0.5	0.6	0.7	1.2	0.7	0.8	0.6	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.0	
Crystal Meth. (Ice) <sup>l</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.1	0.1	0.1	0.1	*	0.1	0.1	0.1	*	-0.1		
Sedatives <sup>k,m</sup>	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	*	0.1	0.1	0.1	*	-0.1	
Barbiturates <sup>k</sup>	0.1	0.1	0.2	0.1	*	0.1	0.1	0.1	0.1	*	0.1	0.1	0.1	*	0.1	0.1	0.1	0.1	0.1	*	0.1	0.1	0.1	0.1	0.1	0.0	
Methaqualone <sup>k,m</sup>	*	*	*	*	*	0.1	0.1	0.1	*	*	*	*	*	0.1	*	*	*	*	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	
Tranquilizers <sup>k</sup>	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	*	*	0.1	*	0.1	0.1	0.1	*	*	0.1	*	0.2	0.1	0.1	0.0		
Alcohol																											
Daily <sup>n</sup>	5.7	5.6	6.1	5.7	6.9	6.0	6.0	5.7	5.5	4.8	5.0	4.8	4.8	4.2	4.2	3.7	3.6	3.4	2.5	—	—	—	—	—	—		
Been drunk daily <sup>l</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.9	0.8	0.9	3.4	2.9	3.5	3.7	3.9	3.9	0.0	
5+ drinks in a row in last 2 weeks	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.9	0.8	0.9	1.2	1.3	1.6	2.0	1.5	-0.5
Cigarettes	36.8	37.1	39.4	40.3	41.2	41.2	41.4	40.5	40.8	38.7	36.7	36.8	37.5	34.7	33.0	32.2	29.8	27.9	27.5	28.2	29.8	30.2	31.3	31.5	+0.2		
Daily	26.9	28.8	28.8	27.5	25.4	21.3	20.3	21.1	21.2	18.7	19.5	18.7	18.7	18.1	18.9	19.1	18.5	17.2	19.0	19.4	21.6	22.2	24.6	22.4	-2.2s		
Half-pack or more per day	17.9	19.2	19.4	18.8	16.5	14.3	13.5	14.2	13.8	12.3	12.5	11.4	11.4	10.6	11.2	11.3	10.7	10.0	10.9	11.2	12.4	13.0	14.3	12.6	-1.7s		
Smokeless Tobacco <sup>e,o</sup>	—	—	—	—	—	—	—	—	—	—	—	4.7	5.1	4.3	3.3	—	—	4.3	3.3	3.9	3.6	3.3	4.4	3.2	-1.2		
Steroids <sup>l</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.1	0.2	0.1	0.1	0.1	0.4	0.2	0.3	0.3	0.3	0.0		

NOTES: Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001.

'—' indicates data not available. '\*' indicates less than .05 percent but greater than 0 percent.

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

See Table 2 for relevant footnotes.

Daily use is defined as use on twenty or more occasions in the past thirty days except for 5+ drinks, cigarettes, and smokeless tobacco, for which actual daily use is measured.

SOURCE: The Monitoring the Future Study, the University of Michigan.

**TABLE 6**

**Trends in Harmfulness of Drugs as Perceived by Eighth, Tenth, and Twelfth Graders, 1991-98**

How much do you think people risk harming themselves (physically or in other ways), if they . . .	Percentage saying "great risk" <sup>a</sup>																											
	8th Grade									10th Grade									12th Grade									
	1991	1992	1993	1994	1995	1996	1997	1998	'97-'98 change	1991	1992	1993	1994	1995	1996	1997	1998	'97-'98 change	1991	1992	1993	1994	1995	1996	1997	1998	'97-'98 change	
Try marijuana once or twice	40.4	39.1	36.2	31.6	28.9	27.9	25.3	28.1	+2.8 <sup>sss</sup>	30.0	31.9	29.7	24.4	21.5	20.0	18.8	19.6	+0.8	27.1	24.5	21.9	19.5	16.3	15.6	14.9	16.7	+1.8	
Smoke marijuana occasionally	57.9	56.3	53.8	48.6	45.9	44.3	43.1	45.0	+1.9 <sup>s</sup>	48.6	48.9	46.1	38.9	35.4	32.8	31.9	32.5	+0.6	40.6	39.6	35.6	30.1	25.6	25.9	24.7	24.4	-0.3	
Smoke marijuana regularly	83.8	82.0	79.6	74.3	73.0	70.9	72.7	73.0	+0.3	82.1	81.1	78.5	71.3	67.9	65.9	65.9	65.8	-0.1	78.6	76.5	72.5	65.0	60.8	59.9	58.1	58.5	+0.4	
Try inhalants once or twice <sup>b</sup>	35.9	37.0	36.5	37.9	36.4	40.8	40.1	38.9	-1.2	37.8	38.7	40.9	42.7	41.6	47.2	47.5	45.8	-1.7	—	—	—	—	—	—	—	—	—	
Try inhalants regularly <sup>b</sup>	65.6	64.4	64.6	65.5	64.8	68.2	68.7	67.2	-1.5	69.8	67.9	69.6	71.5	71.8	75.8	74.5	73.3	-1.2	—	—	—	—	—	—	—	—	—	
Take LSD once or twice <sup>c</sup>	—	—	42.1	38.3	36.7	36.5	37.0	34.9	-2.1	—	—	48.7	46.5	44.7	45.1	44.5	43.5	-1.0	46.6	42.3	39.5	38.8	36.4	36.2	34.7	37.4	+2.7	
Take LSD regularly <sup>c</sup>	—	—	68.3	65.8	64.4	63.6	64.1	59.6	-4.5 <sup>s</sup>	—	—	78.9	75.9	75.5	75.3	73.8	72.3	-1.5	84.3	81.8	79.4	79.1	78.1	77.8	76.6	76.5	-0.1	
Try crack once or twice <sup>b</sup>	62.8	61.2	57.2	54.4	50.8	51.0	49.9	49.3	-0.6	70.4	69.6	66.6	64.7	60.9	60.9	59.2	58.0	-1.2	60.6	62.4	57.6	58.4	54.6	56.0	54.0	52.2	-1.8	
Take crack occasionally <sup>b</sup>	82.2	79.6	76.8	74.4	72.1	71.6	71.2	70.6	-0.6	87.4	86.4	84.4	83.1	81.2	80.3	78.7	77.5	-1.2	76.5	76.3	73.9	73.8	72.8	71.4	70.3	68.7	-1.6	
Try cocaine powder once or twice <sup>b</sup>	55.5	54.1	50.7	48.4	44.9	45.2	45.0	44.0	-1.0	59.1	59.2	57.5	56.4	53.5	53.6	52.2	50.9	-1.3	53.6	57.1	53.2	55.4	52.0	53.2	51.4	48.5	-2.9	
Take cocaine powder occasionally <sup>b</sup>	77.0	74.3	71.8	69.1	66.4	65.7	65.8	65.2	-0.6	82.2	80.1	79.1	77.8	75.6	75.0	73.9	71.8	-2.1 <sup>s</sup>	69.8	70.8	68.6	70.6	69.1	68.8	67.7	65.4	-2.3	
Try heroin once or twice without using a needle <sup>c</sup>	—	—	—	—	60.1	61.3	63.0	62.8	-0.2	—	—	—	—	70.7	72.1	73.1	71.7	-1.4	—	—	—	—	55.6	58.6	60.5	59.6	-0.9	
Take heroin occasionally without using a needle <sup>c</sup>	—	—	—	—	76.8	76.6	79.2	79.0	-0.2	—	—	—	—	85.1	85.8	86.5	84.9	-1.6	—	—	—	—	71.2	71.0	74.3	73.4	-0.9	
Try one or two drinks of an alcoholic beverage (beer, wine, liquor)	11.0	12.1	12.4	11.6	11.6	11.8	10.4	12.1	+1.7 <sup>ss</sup>	9.0	10.1	10.9	9.4	9.3	8.9	9.0	10.1	+1.1 <sup>s</sup>	9.1	8.6	8.2	7.6	5.9	7.3	6.7	8.0	+1.3	
Take one or two drinks nearly every day	31.8	32.4	32.6	29.9	30.5	28.6	29.1	30.3	+1.2	36.1	36.8	35.9	32.5	31.7	31.2	31.8	31.9	+0.1	32.7	30.6	28.2	27.0	24.8	25.1	24.8	24.3	-0.5	
Have five or more drinks once or twice each weekend	59.1	58.0	57.7	54.7	54.1	51.8	55.6	56.0	+0.4	54.7	55.9	54.9	52.9	52.0	50.9	51.8	52.5	+0.7	48.6	49.0	48.3	46.5	45.2	49.5	43.0	42.8	-0.2	
Smoke one or more packs of cigarettes per day	51.6	50.8	52.7	50.8	49.8	50.4	52.6	54.3	+1.7	60.3	59.3	60.7	59.0	57.0	57.9	59.9	61.9	+2.0	69.4	69.2	69.5	67.6	65.6	68.2	68.7	70.8	+2.1	
Use smokeless tobacco regularly	35.1	35.1	36.9	35.5	33.5	34.0	35.2	36.5	+1.3	40.3	39.6	44.2	42.2	38.2	41.0	42.2	42.8	+0.6	37.4	35.5	38.9	36.6	33.2	37.4	38.6	40.9	+2.3	
Take steroids <sup>d</sup>	64.2	69.5	70.2	67.6	—	—	—	—	—	67.1	72.7	73.4	72.5	—	—	—	—	—	65.6	70.7	69.1	66.1	66.4	67.6	67.2	68.1	+0.9	
Approx. N (in thousands) =	17.4	18.7	18.4	17.4	17.5	17.9	18.8	18.1	—	14.7	14.8	15.3	15.9	17.0	15.7	15.6	15.0	—	2.5	2.7	2.8	2.6	2.6	2.4	2.6	2.5	—	

NOTES: Level of significance of difference between the two most recent classes: s =.05, ss =.01, sss =.001. '—' indicates data not available.  
 SOURCE: The Monitoring the Future Study, the University of Michigan.

<sup>a</sup>Answer alternatives were: (1) No risk, (2) Slight risk, (3) Moderate risk, (4) Great risk, (5) Can't say, drug unfamiliar.  
<sup>b</sup>8th and 10th grade: Beginning in 1997, data based on two-thirds of N indicated due to changes in questionnaire forms.  
<sup>c</sup>8th and 10th grade: Data based on one of two forms in 1993-96; N is one-half of N indicated. Beginning in 1997, data based on one-third of N indicated due to changes in questionnaire forms.  
<sup>d</sup>8th and 10th grade: 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.

TABLE 7

Long-Term Trends in Harmfulness of Drugs as Perceived by Twelfth Graders

How much do you think people risk harming themselves (physically or in other ways), if they . . .	Percentage saying "great risk"*																							'97-'98 change		
	Class of 1975	Class of 1976	Class of 1977	Class of 1978	Class of 1979	Class of 1980	Class of 1981	Class of 1982	Class of 1983	Class of 1984	Class of 1985	Class of 1986	Class of 1987	Class of 1988	Class of 1989	Class of 1990	Class of 1991	Class of 1992	Class of 1993	Class of 1994	Class of 1995	Class of 1996	Class of 1997		Class of 1998	
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	24.5	21.9	19.5	16.3	15.6	14.9	16.7	+1.8	
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	39.6	35.6	30.1	25.6	25.9	24.7	24.4	-0.3	
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	76.5	72.5	65.0	60.8	59.9	58.1	58.5	+0.4	
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	42.3	39.5	38.8	36.4	36.2	34.7	37.4	+2.7	
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	81.8	79.4	79.1	78.1	77.8	76.6	76.5	-0.1	
Try PCP once or twice	—	—	—	—	—	—	—	—	—	—	—	—	55.6	58.8	56.6	55.2	51.7	54.8	50.8	51.5	49.1	51.0	48.8	46.8	-2.0	
Try MDMA once or twice	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	33.8	34.5	+0.7	
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	56.8	57.6	57.2	53.7	54.2	53.6	54.6	+1.0	
Take cocaine occasionally	—	—	—	—	—	—	—	—	—	—	—	—	54.2	66.8	69.2	71.8	73.9	75.5	75.1	73.3	73.7	70.8	72.1	72.4	70.1	-2.3
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	90.2	90.1	89.3	87.9	88.3	87.1	86.3	-0.8	
Try crack once or twice	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Take crack occasionally	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Take crack regularly	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Try cocaine powder once or twice	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Take cocaine powder occasionally	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Take cocaine powder regularly	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Try heroin once or twice	60.1	58.9	55.8	52.9	50.4	52.1	52.9	51.1	50.8	49.8	47.3	45.8	53.6	54.0	53.8	55.4	55.2	50.9	50.7	52.8	50.9	52.5	56.7	57.8	+1.1	
Take heroin occasionally	75.6	75.6	71.9	71.4	70.9	70.9	72.2	69.8	71.8	70.7	69.8	68.2	74.6	73.8	75.5	76.6	74.9	74.2	72.0	72.1	71.0	74.8	76.3	76.9	+0.6	
Take heroin regularly	87.2	88.6	86.1	86.6	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	89.2	88.3	88.0	87.2	89.5	88.9	89.1	+0.2	
Try amphetamines once or twice	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	32.6	31.3	31.4	28.8	30.8	31.0	35.3	+4.3 <sup>sss</sup>	
Take amphetamines regularly	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	72.4	69.9	67.0	65.9	66.8	66.0	67.7	+1.7	
Try crystal meth. (ice) once or twice	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Try barbiturates once or twice	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	32.2	29.2	29.9	26.3	29.1	26.9	29.0	+2.1	
Take barbiturates regularly	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	70.2	66.1	63.3	61.6	60.4	56.8	56.3	-0.5	
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	8.6	8.2	7.6	5.9	7.3	6.7	8.0	+1.3	
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	30.6	28.2	27.0	24.8	25.1	24.8	24.3	-0.5	
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	70.5	67.8	66.2	62.8	65.6	63.0	62.1	-0.9	
Have five or more drinks once or twice 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	49.0	48.3	46.5	45.2	49.5	43.0	42.8	-0.2	
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	69.2	69.5	67.6	65.6	68.2	68.7	70.8	+2.1	
Use smokeless tobacco regularly	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Take steroids	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Approx. N =	2804	2918	3052	3770	3250	3234	3604	3557	3305	3262	3250	3020	3315	3276	2796	2553	2549	2684	2759	2591	2603	2449	2579	2571	+0.9	

NOTES: Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available.  
 SOURCE: The Monitoring the Future Study, the University of Michigan.

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

**TABLE 8**

**Trends in Disapproval of Drug Use by Eighth, Tenth, and Twelfth Graders, 1991-98**

Percent who "disapprove" or "strongly disapprove"<sup>a</sup>

Do you disapprove of people who . . .	8th Grade										10th Grade										12th Grade <sup>b</sup>									
	1991	1992	1993	1994	1995	1996	1997	1998	'97-'98 change	1991	1992	1993	1994	1995	1996	1997	1998	'97-'98 change	1991	1992	1993	1994	1995	1996	1997	1998	'97-'98 change			
Try marijuana once or twice	84.6	82.1	79.2	72.9	70.7	67.5	67.6	69.0	+1.4	74.6	74.8	70.3	62.4	59.8	55.5	54.1	56.0	+1.9	68.7	69.9	63.3	57.6	56.7	52.5	51.0	51.6	+0.6			
Smoke marijuana occasionally	89.5	88.1	85.7	80.9	79.7	76.5	78.1	78.4	+0.3	83.7	83.6	79.4	72.3	70.0	66.9	66.2	67.3	+1.1	79.4	79.7	75.5	68.9	66.7	62.9	63.2	64.4	+1.2			
Smoke marijuana regularly	92.1	90.8	88.9	85.3	85.1	82.8	84.6	84.5	-0.1	90.4	90.0	87.4	82.2	81.1	79.7	79.7	80.1	+0.4	89.3	90.1	87.6	82.3	81.9	80.0	78.8	81.2	+2.4			
Try inhalants once or twice <sup>c</sup>	84.9	84.0	82.5	81.6	81.8	82.9	84.1	83.0	-1.1	85.2	85.6	84.8	84.9	84.5	86.0	86.9	85.6	-1.3	—	—	—	—	—	—	—	—	—			
Take inhalants regularly <sup>c</sup>	90.6	90.0	88.9	88.1	88.8	89.3	90.3	89.5	-0.8	91.0	91.5	90.9	91.0	90.9	91.7	91.7	91.1	-0.6	—	—	—	—	—	—	—	—	—			
Try LSD once or twice <sup>d</sup>	—	—	77.1	75.2	71.6	70.9	72.1	69.1	-3.0s	—	—	82.1	79.3	77.9	76.8	76.6	76.7	+0.1	90.1	88.1	85.9	82.5	81.1	79.6	80.5	82.1	+1.6			
Take LSD regularly <sup>d</sup>	—	—	79.8	78.4	75.8	75.3	76.3	72.5	-3.8ss	—	—	86.8	85.6	84.8	84.5	83.4	82.9	-0.5	96.4	95.5	95.8	94.3	92.5	93.2	92.9	93.5	+0.6			
Try crack once or twice <sup>c</sup>	91.7	90.7	89.1	86.9	85.9	85.0	85.7	85.4	-0.3	92.5	92.5	91.4	89.9	88.7	88.2	87.4	87.1	-0.3	92.1	93.1	89.9	89.5	91.4	87.4	87.0	86.7	-0.3			
Take crack occasionally <sup>c</sup>	93.3	92.5	91.7	89.9	89.8	89.3	90.3	89.5	-0.8	94.3	94.4	93.6	92.5	91.7	91.9	91.0	90.6	-0.4	94.2	95.0	92.8	92.8	94.0	91.2	91.3	90.9	-0.4			
Try cocaine powder once or twice <sup>c</sup>	91.2	89.6	88.5	86.1	85.3	83.9	85.1	84.5	-0.6	90.8	91.1	90.0	88.1	86.8	86.1	85.1	84.9	-0.2	88.0	89.4	86.6	87.1	88.3	83.1	83.0	83.1	+0.1			
Take cocaine powder occasionally <sup>c</sup>	93.1	92.4	91.6	89.7	89.7	88.7	90.1	89.3	-0.8	94.0	94.0	93.2	92.1	91.4	91.1	90.4	89.7	-0.7	93.0	93.4	91.2	91.0	92.7	89.7	89.3	88.7	-0.6			
Try heroin once or twice without using a needle <sup>d</sup>	—	—	—	—	85.8	85.0	87.7	87.3	-0.4	—	—	—	—	89.7	89.5	89.1	88.7	-0.4	—	—	—	—	92.9	90.8	92.3	93.0	+0.7			
Take heroin occasionally without using a needle <sup>d</sup>	—	—	—	—	88.5	87.7	90.1	89.6	-0.5	—	—	—	—	91.6	91.7	91.4	90.5	-0.9	—	—	—	—	94.7	93.2	94.4	94.3	-0.1			
Try one or two drinks of an alcoholic beverage (beer, wine, liquor)	51.7	52.2	50.9	47.8	48.0	45.5	45.7	47.5	+1.8	37.6	39.9	38.5	36.5	36.1	34.2	33.7	34.7	+1.0	29.8	33.0	30.1	28.4	27.3	26.5	26.1	24.5	-1.6			
Take one or two drinks nearly every day	82.2	81.0	79.6	76.7	75.9	74.1	76.6	76.9	+0.3	81.7	81.7	78.6	75.2	75.4	73.8	75.4	74.6	-0.8	76.5	75.9	77.8	73.1	73.3	70.8	70.0	69.4	-0.6			
Have five or more drinks once or twice each weekend	85.2	83.9	83.3	80.7	80.7	79.1	81.3	81.0	-0.3	76.7	77.6	74.7	72.3	72.2	70.7	70.2	70.5	+0.3	67.4	70.7	70.1	65.1	66.7	64.7	65.0	63.8	-1.2			
Smoke one or more packs of cigarettes per day	82.8	82.3	80.6	78.4	78.6	77.3	80.3	80.0	-0.3	79.4	77.8	76.5	73.9	73.2	71.6	73.8	75.3	+1.5	71.4	73.5	70.6	69.8	68.2	67.2	67.1	68.8	+1.7			
Use smokeless tobacco regularly	79.1	77.2	77.1	75.1	74.0	74.1	76.5	76.3	-0.2	75.4	74.6	73.8	71.2	71.0	71.0	72.3	73.2	+0.9	—	—	—	—	—	—	—	—	—			
Take steroids <sup>e</sup>	89.8	90.3	89.9	87.9	—	—	—	—	—	90.0	91.0	91.2	90.8	—	—	—	—	—	90.5	92.1	92.1	91.9	91.0	91.7	91.4	90.8	-0.6			
<i>Approx. N (in thousands)</i>	17.4	18.5	18.4	17.4	17.6	18.0	18.8	18.1	—	14.8	14.8	15.3	15.9	17.0	15.7	15.6	15.0	—	2.5	2.6	2.7	2.6	2.6	2.4	2.6	2.5	—			

NOTES: Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available.  
 SOURCE: The Monitoring the Future Study, the University of Michigan.

<sup>a</sup>Answer alternatives were: (1) Don't disapprove, (2) Disapprove, (3) Strongly disapprove. For 8th and 10th grades, there was another category—"Can't say, drug unfamiliar"—which was included in the calculation of these percentages.  
<sup>b</sup>The twelfth grade questions ask about people who are 18 or older.  
<sup>c</sup>8th and 10th grade: Beginning in 1997, data based on two-thirds of N indicated due to changes in questionnaire forms.  
<sup>d</sup>8th and 10th grade: Data based on one of two forms in 1993-96; N is one-half of N indicated. Beginning in 1997, data based on one-third of N indicated due to changes in questionnaire forms.  
<sup>e</sup>8th and 10th grade: Data based on two forms in 1991 and 1992 and on one of two forms in 1993 and 1994; N is one-half of N indicated.

TABLE 9

Long-Term Trends in Disapproval of Drug Use by Twelfth Graders

Do you disapprove of people (who are 18 or older) doing each of the following? <sup>a</sup>	Percentage "disapproving" <sup>b</sup>																							'97-'98 change	
	Class of 1975	Class of 1976	Class of 1977	Class of 1978	Class of 1979	Class of 1980	Class of 1981	Class of 1982	Class of 1983	Class of 1984	Class of 1985	Class of 1986	Class of 1987	Class of 1988	Class of 1989	Class of 1990	Class of 1991	Class of 1992	Class of 1993	Class of 1994	Class of 1995	Class of 1996	Class of 1997		Class of 1998
Try 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	69.9	63.3	57.6	56.7	52.5	51.0	51.6	+0.6
Smoke 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	79.7	75.5	68.9	66.7	62.9	63.2	64.4	+1.2
Smoke 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	90.1	87.6	82.3	81.9	80.0	78.8	81.2	+2.4
Try 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	88.1	85.9	82.5	81.1	79.6	80.5	82.1	+1.6
Take 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	95.5	95.8	94.3	92.5	93.2	92.9	93.5	+0.6
Try MDMA once or twice	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Try 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	93.0	92.7	91.6	90.3	90.0	88.0	89.5	+1.5
Take 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	96.9	97.5	96.6	96.1	95.6	96.0	95.6	-0.4
Try crack once or twice	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Take crack occasionally	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Take crack regularly	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Try cocaine powder once or twice	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Take cocaine powder occasionally	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Take cocaine powder regularly	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Try 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	94.9	94.4	93.2	92.8	92.1	92.3	93.7	+1.4
Take 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	96.8	97.0	96.2	95.7	95.0	95.4	96.1	+0.7
Take 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	97.2	97.5	97.1	96.4	96.3	96.4	96.6	+0.2
Try amphetamines once or twice	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	86.9	84.2	81.3	82.2	79.9	81.3	82.5	+1.2
Take amphetamines regularly	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	95.6	96.0	94.1	94.3	93.5	94.3	94.0	-0.3
Try barbiturates once or twice	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	90.3	89.7	87.5	87.3	84.9	86.4	86.0	-0.4
Take barbiturates regularly	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	96.5	97.0	96.1	95.2	94.8	95.3	94.6	-0.7
Try 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	33.0	30.1	28.4	27.3	26.5	26.1	24.5	-1.6
Take 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	75.9	77.8	73.1	73.3	70.8	70.0	69.4	-0.6
Take 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	90.8	90.6	89.8	88.8	89.4	88.6	86.7	-1.9
Have 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	70.7	70.1	65.1	66.7	64.7	65.0	63.8	-1.2
Smoke 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	73.5	70.6	69.8	68.2	67.2	67.1	68.8	+1.7
Take steroids	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Approx. N =	2677	2957	3085	3686	3221	3261	3610	3651	3341	3254	3265	3113	3302	3311	2799	2566	2547	2645	2723	2588	2603	2399	2601	2545

NOTES: Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available.  
 SOURCE: The Monitoring the Future Study, the University of Michigan.

<sup>a</sup>The 1975 question asked about people who are "20 or older."  
<sup>b</sup>Answer alternatives were: (1) Don't disapprove, (2) Disapprove, and (3) Strongly disapprove. Percentages are shown for categories (2) and (3) combined.

**TABLE 10**

**Trends in Perceived Availability of Drugs by Eighth, Tenth, and Twelfth Graders, 1992-98**

*How difficult do you think it would be for you to get each of the following types of drugs, if you wanted some?*

Percent saying "fairly easy" or "very easy" to get\*

	8th Grade								10th Grade								12th Grade							
	1992	1993	1994	1995	1996	1997	1998	'97-'98 change	1992	1993	1994	1995	1996	1997	1998	'97-'98 change	1992	1993	1994	1995	1996	1997	1998	'97-'98 change
Marijuana	42.3	43.8	49.9	52.4	54.8	54.2	50.6	-3.6sss	65.2	68.4	75.0	78.1	81.1	80.5	77.9	-2.6ss	82.7	83.0	85.5	88.5	88.7	89.6	90.4	+0.8
LSD	21.5	21.8	21.8	23.5	23.6	22.7	19.3	-3.4sss	33.6	35.8	36.1	39.8	41.0	38.3	34.0	-4.3sss	44.5	49.2	50.8	53.8	51.3	50.7	48.8	-1.9
PCP <sup>b</sup>	18.0	18.5	17.7	19.0	19.6	19.2	17.5	-1.7	23.7	23.4	23.8	24.7	26.8	24.8	23.9	-0.9	31.7	31.7	31.4	31.0	30.5	30.0	30.7	+0.7
Crack	25.6	25.9	26.9	28.7	27.9	27.5	26.5	-1.0	33.7	33.0	34.2	34.6	36.4	36.0	36.3	+0.3	43.5	43.6	40.5	41.9	40.7	40.6	43.8	+3.2
Cocaine Powder	25.7	25.9	26.4	27.8	27.2	26.9	25.7	-1.2	35.0	34.1	34.5	35.3	36.9	37.1	36.8	-0.3	48.0	45.4	43.7	43.8	44.4	43.3	45.7	+2.4
Heroin	19.7	19.8	19.4	21.1	20.6	19.8	18.0	-1.8s	24.3	24.3	24.7	24.6	24.8	24.4	23.0	-1.4	34.9	33.7	34.1	35.1	32.2	33.8	35.6	+1.8
Other Opiates <sup>b</sup>	19.8	19.0	18.3	20.3	20.0	20.6	17.1	-3.5ss	26.9	24.9	26.9	27.8	29.4	29.0	26.1	-2.9s	37.1	37.5	38.0	39.8	40.0	38.9	42.8	+3.9s
Amphetamines	32.2	31.4	31.0	33.4	32.6	30.6	27.3	-3.3sss	43.4	46.4	46.6	47.7	47.2	44.6	41.0	-3.6sss	58.8	61.5	62.0	62.8	59.4	59.8	60.8	+1.0
Crystal Meth. (Ice) <sup>b</sup>	16.0	15.1	14.1	16.0	16.3	15.7	16.0	+0.3	18.8	16.4	17.8	20.7	22.6	22.9	22.1	-0.8	26.0	26.6	25.6	27.0	26.9	27.6	29.8	+2.2
Barbiturates	27.4	26.1	25.3	26.5	25.6	24.4	21.1	-3.3sss	38.0	38.8	38.3	38.8	38.1	35.6	32.7	-2.9ss	44.0	44.5	43.3	42.3	41.4	40.0	40.7	+0.7
Tranquilizers	22.9	21.4	20.4	21.3	20.4	19.6	18.1	-1.5s	31.6	30.5	29.8	30.6	30.3	28.7	26.5	-2.2s	40.9	41.1	39.2	37.8	36.0	35.4	36.2	+0.8
Alcohol	76.2	73.9	74.5	74.9	75.3	74.9	73.1	-1.8ss	88.6	88.9	89.8	89.7	90.4	89.0	88.0	-1.0	—	—	—	—	—	—	—	—
Cigarettes	77.8	75.5	76.1	76.4	76.9	76.0	73.6	-2.4sss	89.1	89.4	90.3	90.7	91.3	89.6	88.1	-1.5ss	—	—	—	—	—	—	—	—
Steroids	24.0	22.7	23.1	23.8	24.1	23.6	22.3	-1.3	37.6	33.6	33.6	34.8	34.8	34.2	33.0	-1.2	46.8	44.8	42.9	45.5	40.3	41.7	44.5	+2.8
<i>Approx. N =</i>	<i>8355</i>	<i>16775</i>	<i>16119</i>	<i>15496</i>	<i>16318</i>	<i>16482</i>	<i>16208</i>		<i>7014</i>	<i>14652</i>	<i>15192</i>	<i>16209</i>	<i>14887</i>	<i>14856</i>	<i>14423</i>		<i>2586</i>	<i>2670</i>	<i>2526</i>	<i>2552</i>	<i>2340</i>	<i>2517</i>	<i>2520</i>	

NOTES: Level of significance of difference between the two years: s = .05, ss = .01, sss = .001. '—' indicates data not available.  
 SOURCE: The Monitoring the Future Study, the University of Michigan.

\*Answer alternatives were: (1) Probably impossible, (2) Very difficult, (3) Fairly difficult, (4) Fairly easy, (5) Very easy. For 8th and 10th grades, there was another category—"Can't say, drug unfamiliar"—which was included in the calculation of these percentages.

<sup>b</sup>8th and 10th grade only: Data based on one of two forms; N is one-half of N indicated in 1993-98.

**TABLE 11**  
**Long-Term Trends in Perceived Availability of Drugs by Twelfth Graders**

*How difficult do you think it would be for you to get each of the following types of drugs, if you wanted some?*

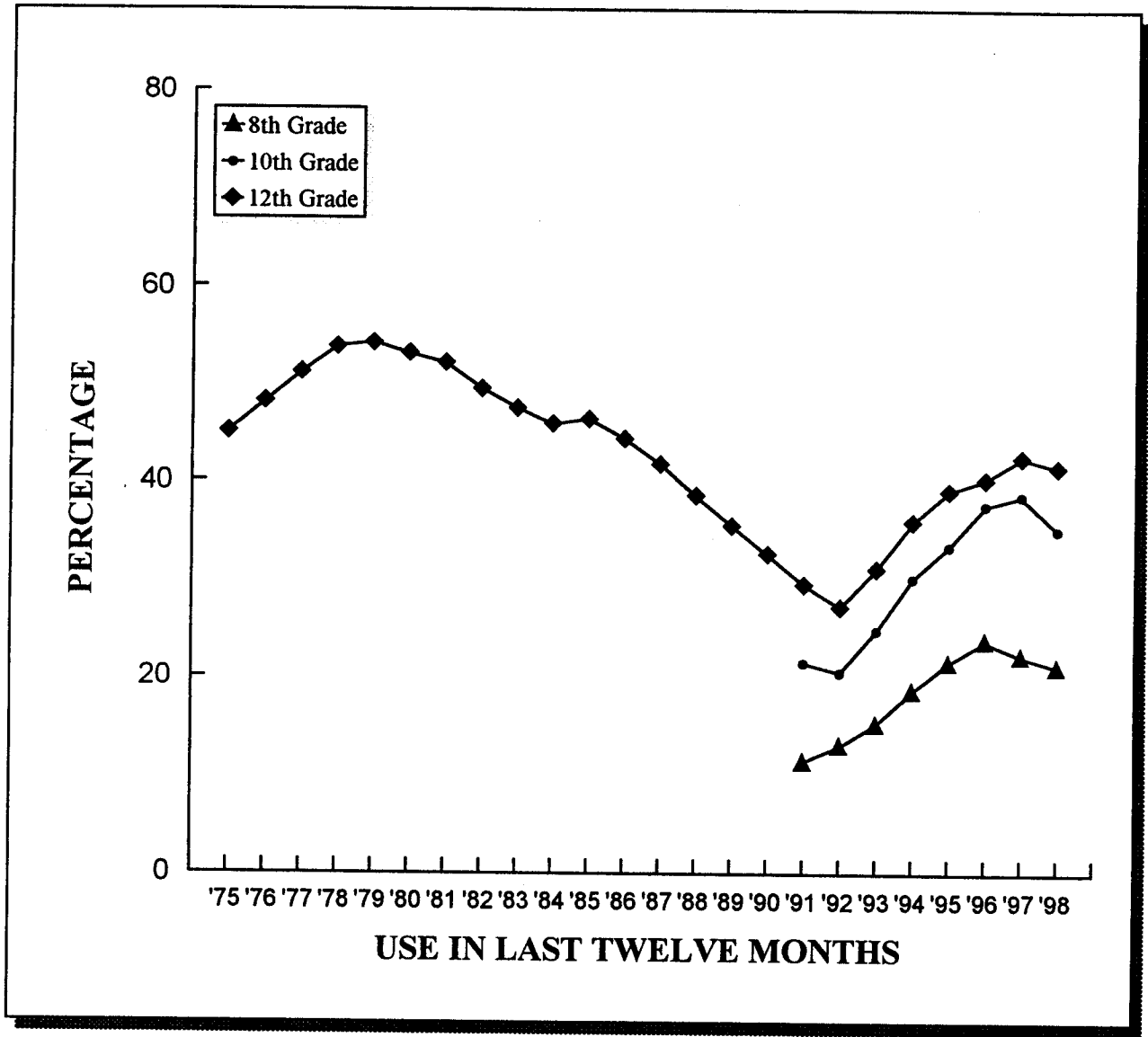
	Percent saying "fairly easy" or "very easy" to get <sup>a</sup>																								'97-'98 change
	Class of 1975	Class of 1976	Class of 1977	Class of 1978	Class of 1979	Class of 1980	Class of 1981	Class of 1982	Class of 1983	Class of 1984	Class of 1985	Class of 1986	Class of 1987	Class of 1988	Class of 1989	Class of 1990	Class of 1991	Class of 1992	Class of 1993	Class of 1994	Class of 1995	Class of 1996	Class of 1997	Class of 1998	
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	83.3	82.7	83.0	85.5	88.5	88.7	89.6	90.4	+0.8
Amyl/Butyl Nitrites	—	—	—	—	—	—	—	—	—	—	—	—	23.9	25.9	26.8	24.4	22.7	25.9	25.9	26.7	26.0	23.9	23.8	25.1	+1.3
LSD	46.2	37.4	34.5	32.2	34.2	35.3	35.0	34.2	30.9	30.6	30.5	28.5	31.4	33.3	38.3	40.7	39.5	44.5	49.2	50.8	53.8	51.3	50.7	48.8	-1.9
Some other psychedelic	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	26.2	28.2	28.3	28.0	29.9	33.5	33.8	35.8	33.9	33.9	35.1	+1.2
PCP	—	—	—	—	—	—	—	—	—	—	—	—	22.8	24.9	28.9	27.7	27.6	31.7	31.7	31.4	31.0	30.5	30.0	30.7	+0.7
MDMA (Ecstasy)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.7	22.0	22.1	24.2	28.1	31.2	34.2	36.9	38.8	38.2	-0.6
Cocaine	37.0	34.0	33.0	37.8	45.5	47.9	47.5	47.4	43.1	45.0	48.9	51.5	54.2	55.0	58.7	54.5	51.0	52.7	48.5	46.6	47.7	48.1	48.5	51.3	+2.8
Crack	—	—	—	—	—	—	—	—	—	—	—	—	41.1	42.1	47.0	42.4	39.9	43.5	43.6	40.5	41.9	40.7	40.6	43.8	+3.2
Cocaine powder	—	—	—	—	—	—	—	—	—	—	—	—	52.9	50.3	53.7	49.0	46.0	48.0	45.4	43.7	43.8	44.4	43.3	45.7	+2.4
Heroin	24.2	18.4	17.9	16.4	18.9	21.2	19.2	20.8	19.3	19.9	21.0	22.0	23.7	28.0	31.4	31.9	30.6	34.9	33.7	34.1	35.1	32.2	33.8	35.6	+1.8
Some other narcotic (including methadone)	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	38.1	34.6	37.1	37.5	38.0	39.8	40.0	38.9	42.8	+3.9s
Amphetamines	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	57.3	58.8	61.5	62.0	62.8	59.4	59.8	60.8	+1.0
Crystal meth. (ice)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24.1	24.3	26.0	26.6	25.6	27.0	26.9	27.6	29.8	+2.2
Barbiturates	60.0	54.4	52.4	50.6	49.8	49.1	54.9	55.2	52.5	51.9	51.3	48.3	48.2	47.8	48.4	45.9	42.4	44.0	44.5	43.3	42.3	41.4	40.0	40.7	+0.7
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	40.8	40.9	41.1	39.2	37.8	36.0	35.4	36.2	+0.8
Steroids	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	46.7	46.8	44.8	42.9	45.5	40.3	41.7	44.5	+2.8
	<i>Approx. N =</i>	2627	2865	3065	3598	3172	3240	3578	3602	3385	3269	3274	3077	3271	3231	2806	2549	2476	2586	2670	2526	2552	2340	2517	2520

NOTES: Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available.  
SOURCE: The Monitoring the Future Study, the University of Michigan.

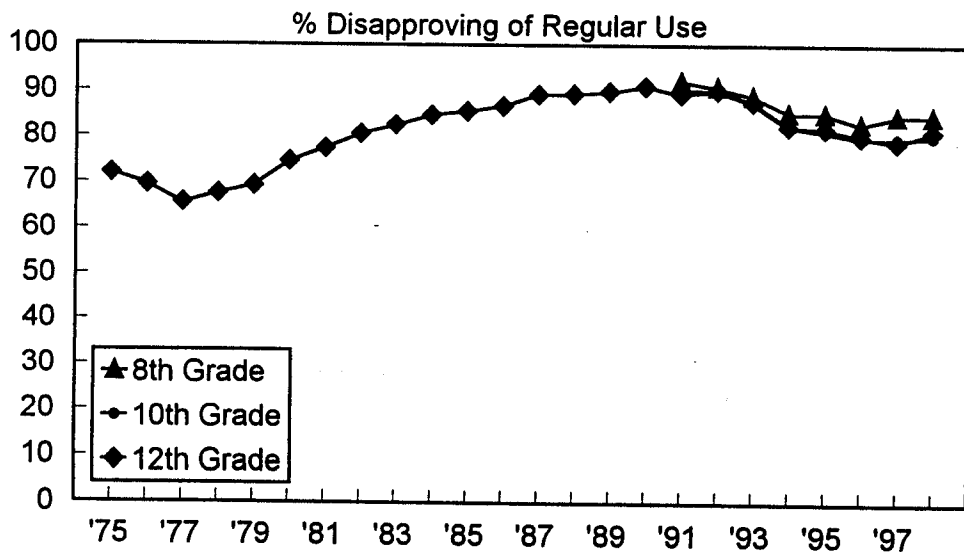
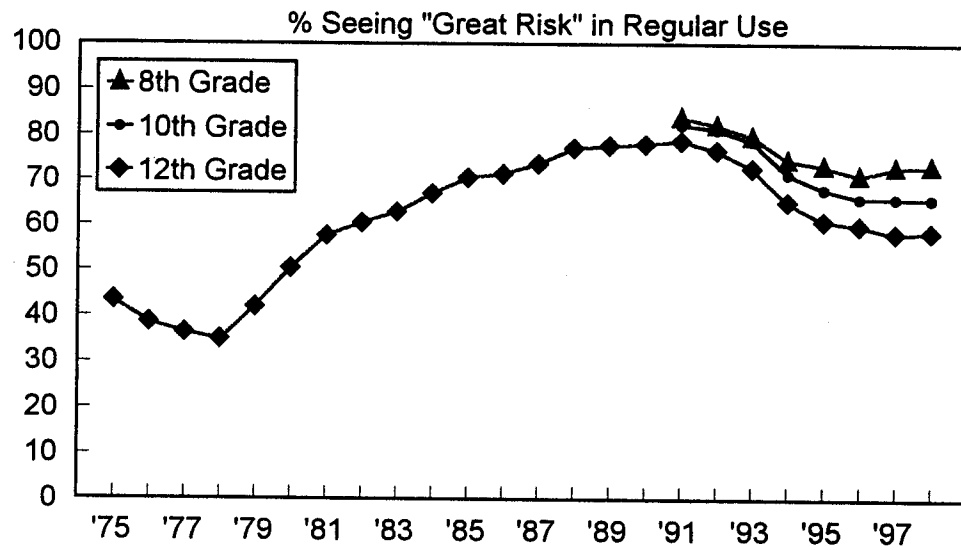
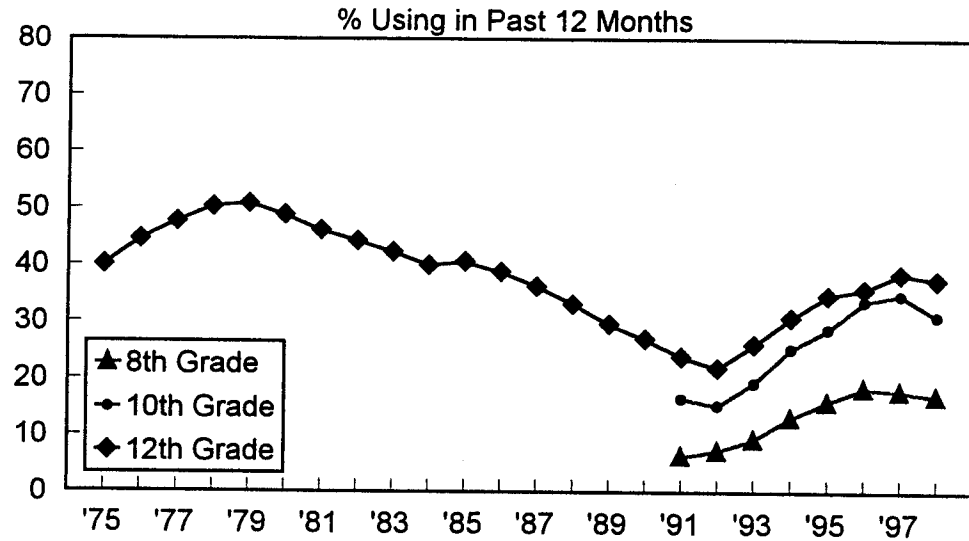
<sup>a</sup>Answer alternatives were: (1) Probably impossible, (2) Very difficult, (3) Fairly difficult, (4) Fairly easy, and (5) Very easy.



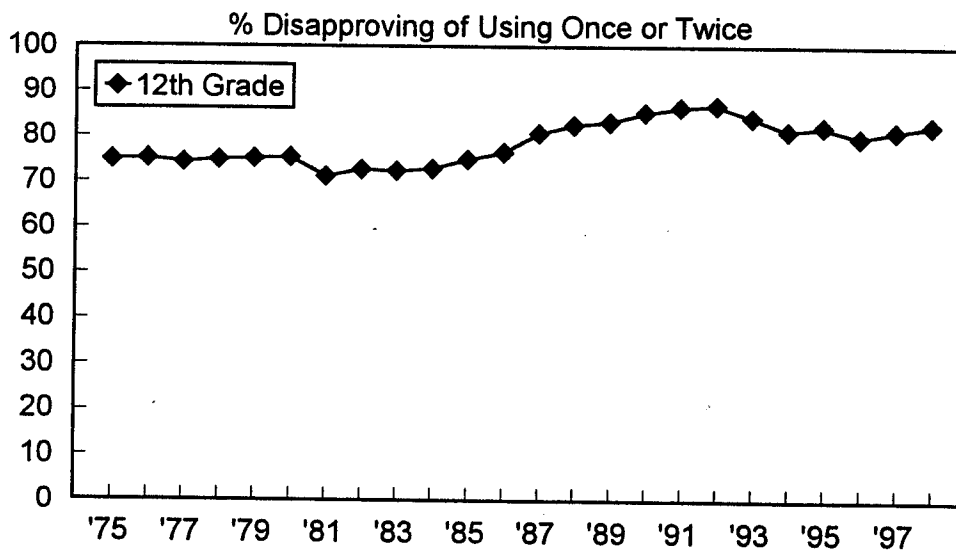
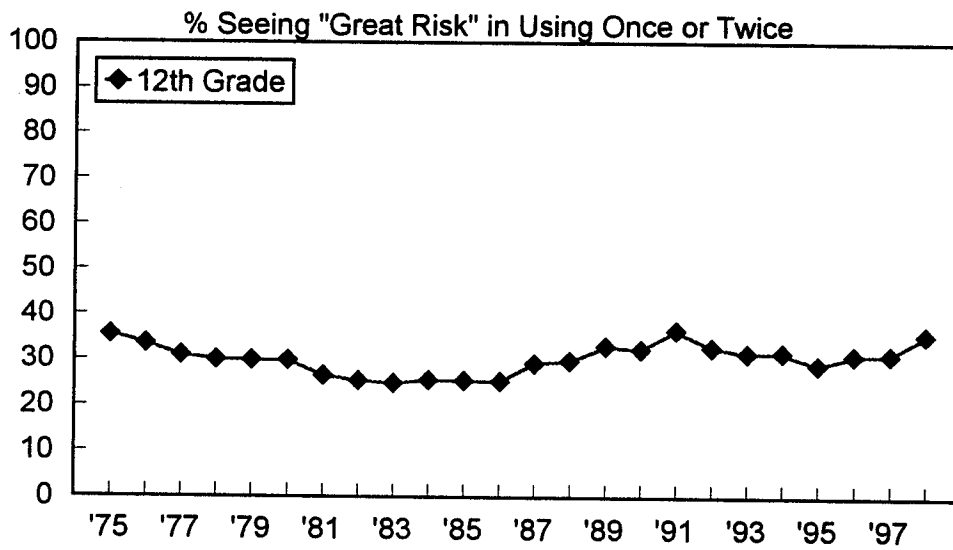
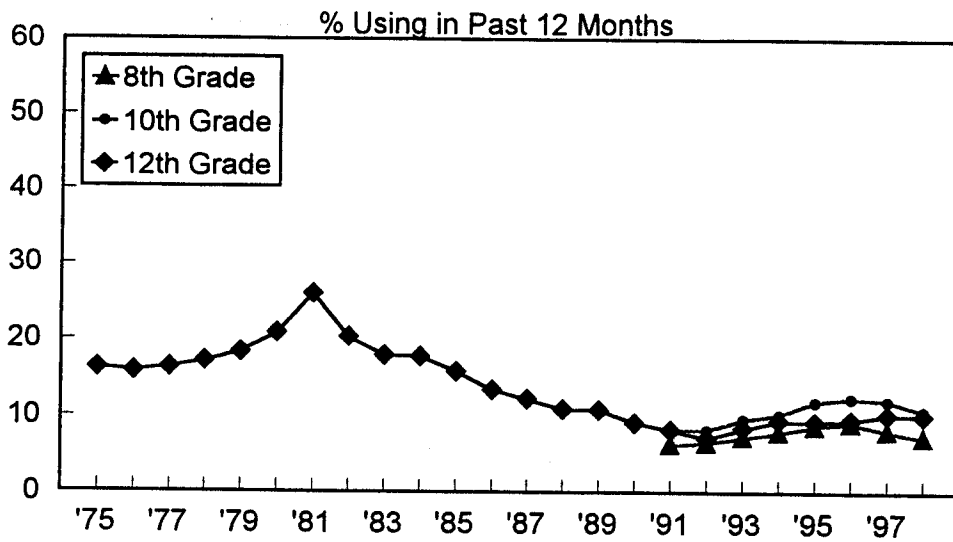
FIGURE 1  
Trends in Annual Prevalence of an Illicit Drug Use Index for Eighth, Tenth,  
and Twelfth Graders



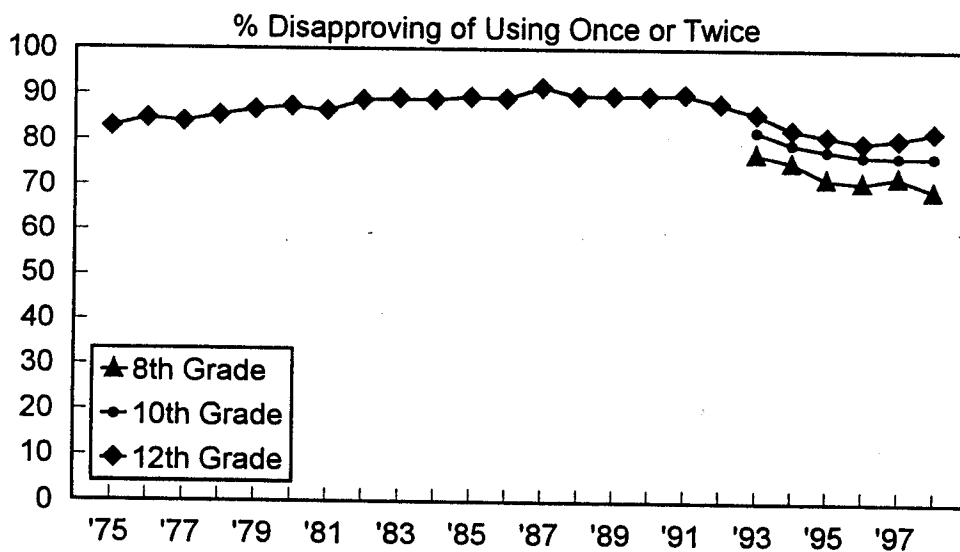
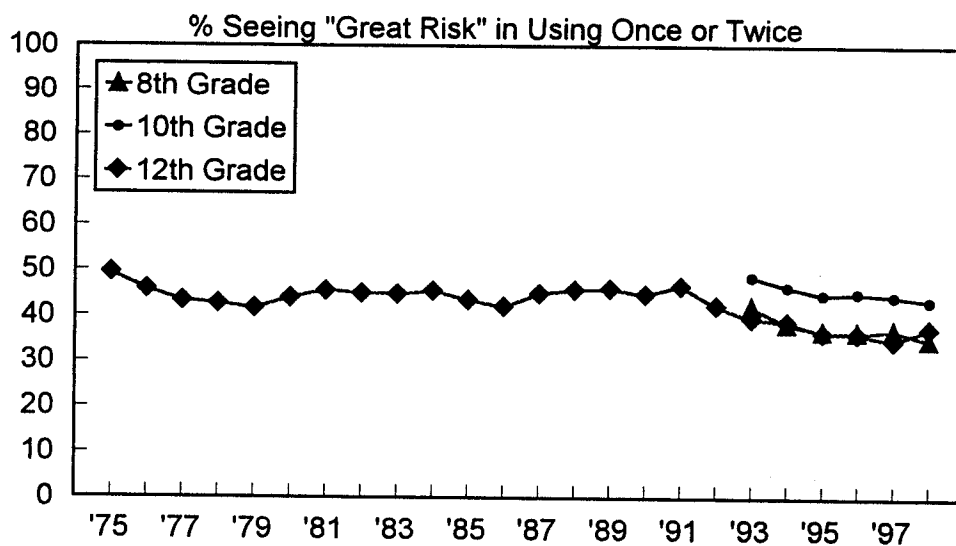
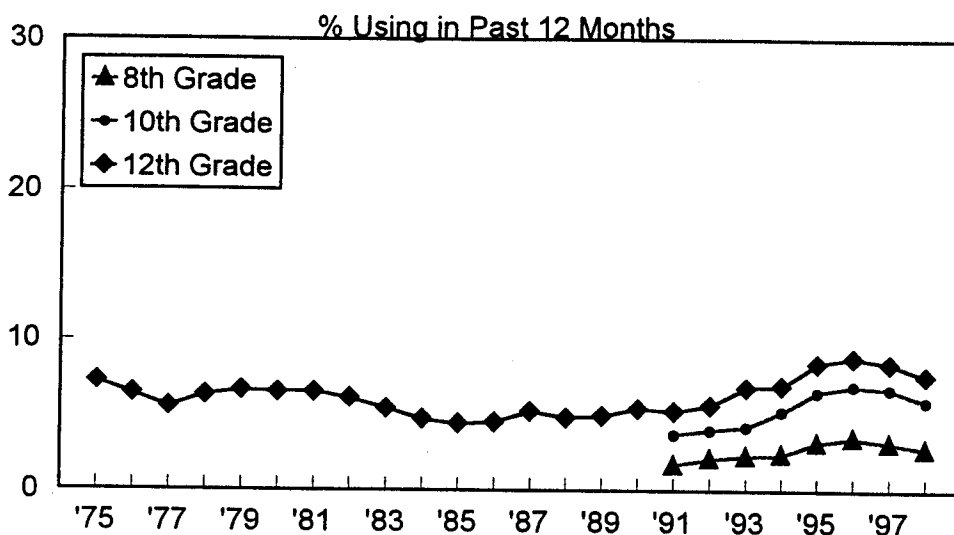
**FIGURE 2**  
**Marijuana: Trends in Annual Prevalence, Perceived Risk, and Disapproval**



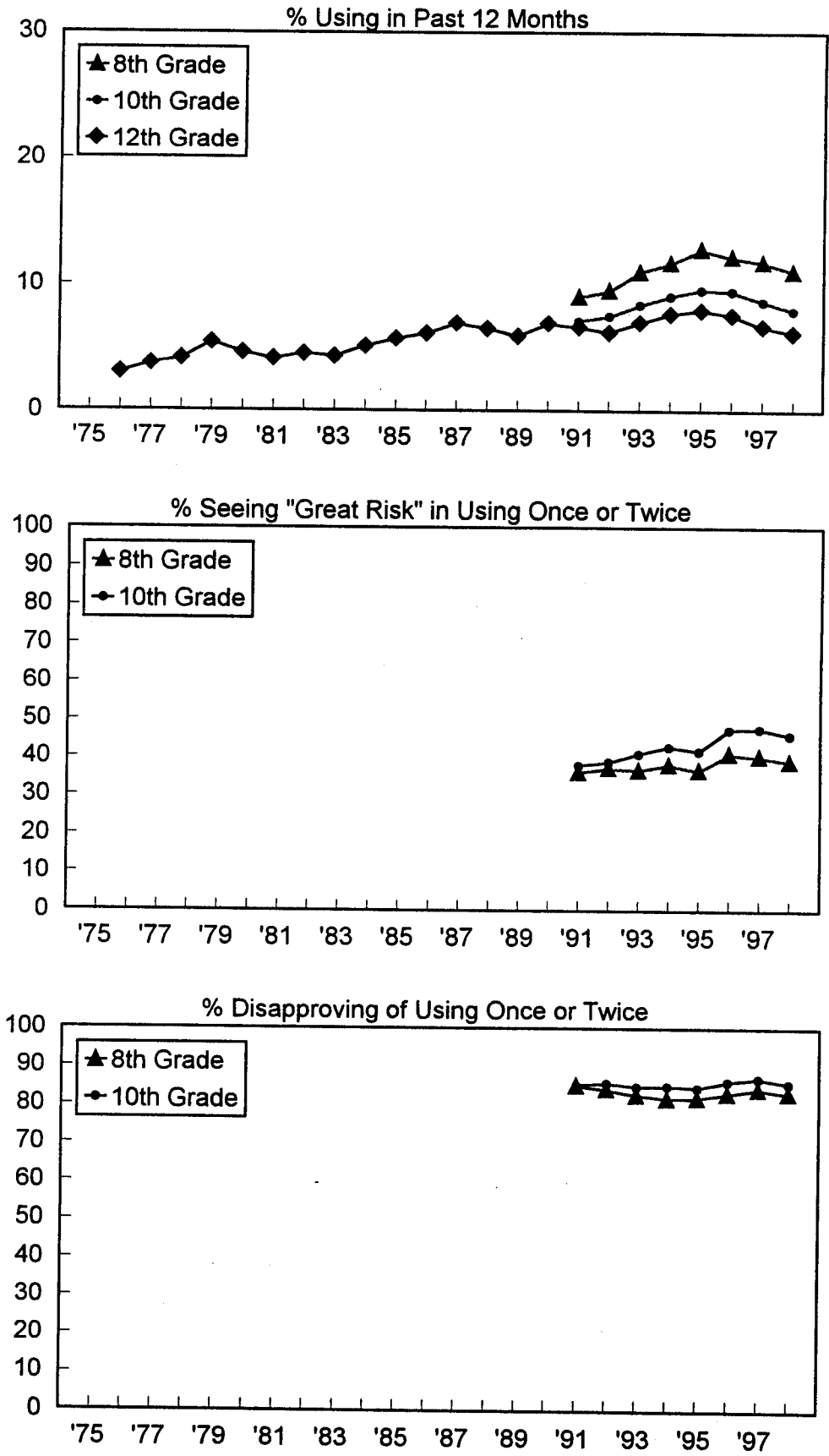
**FIGURE 3**  
**Amphetamines: Trends in Annual Prevalence,**  
**Perceived Risk, and Disapproval**



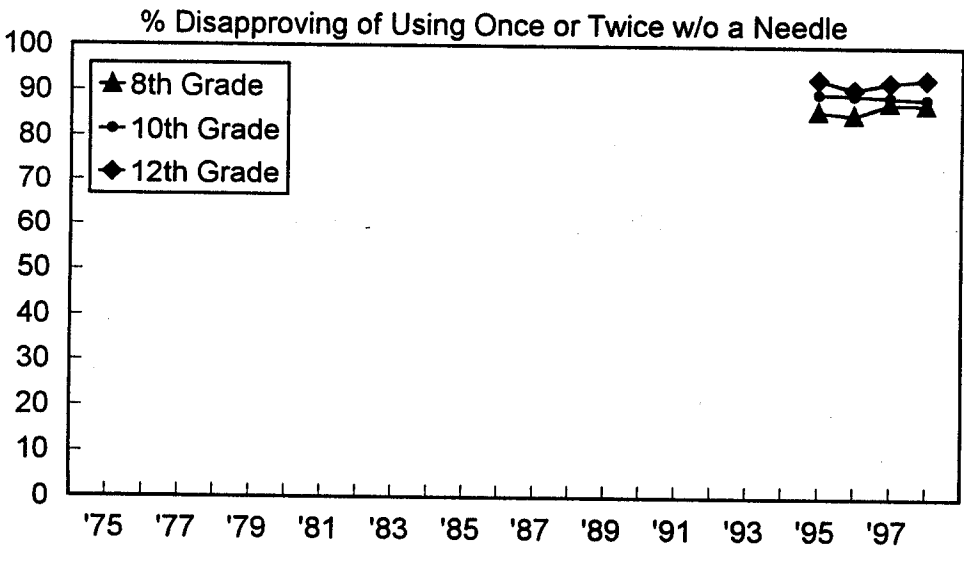
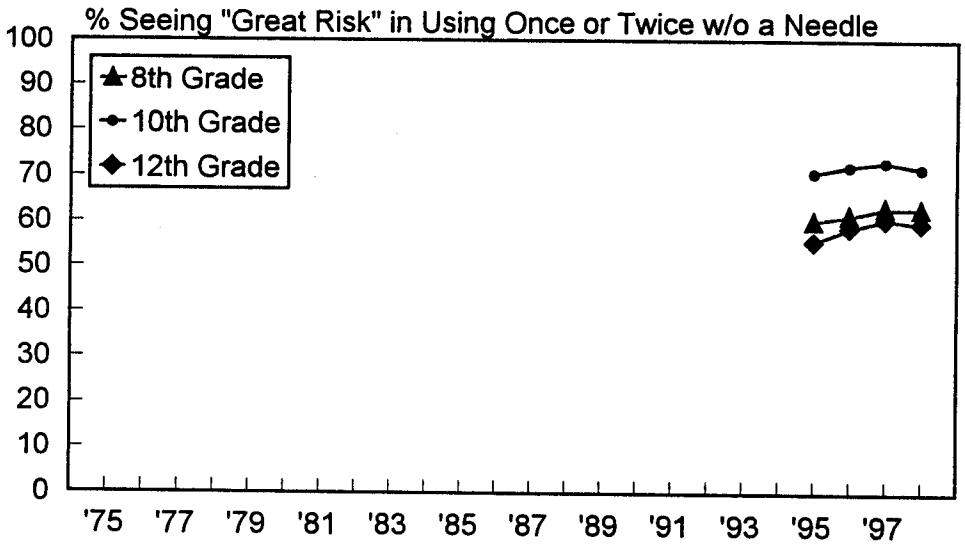
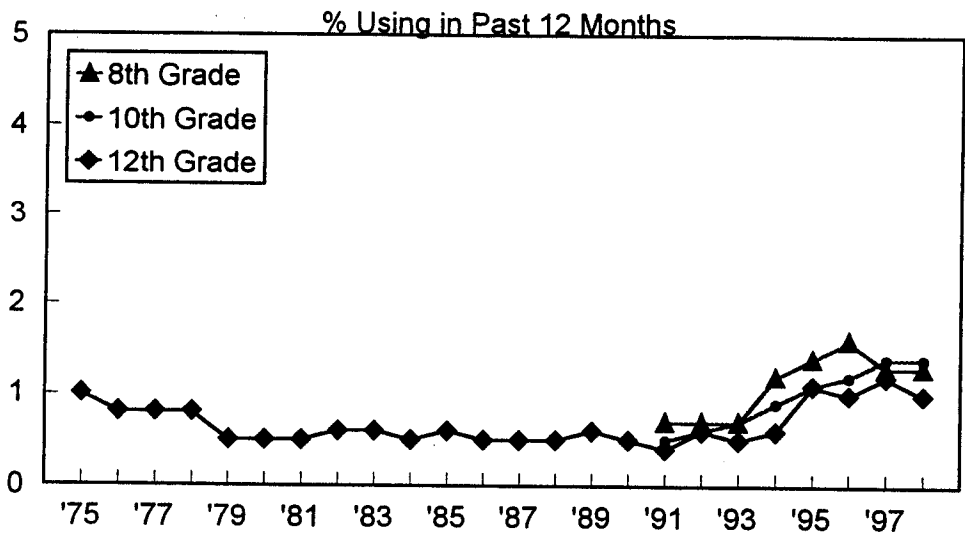
**FIGURE 4**  
**LSD: Trends in Annual Prevalence, Perceived Risk,**  
**and Disapproval**



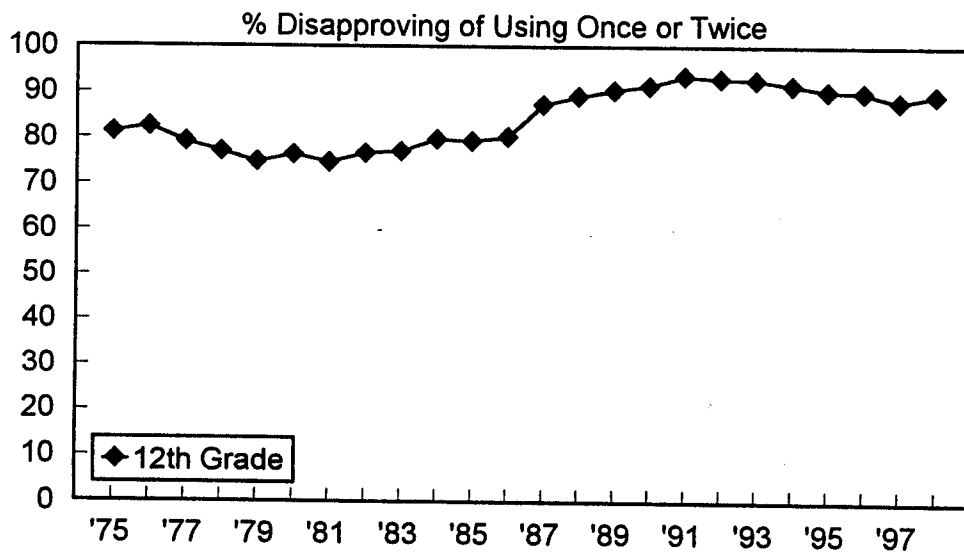
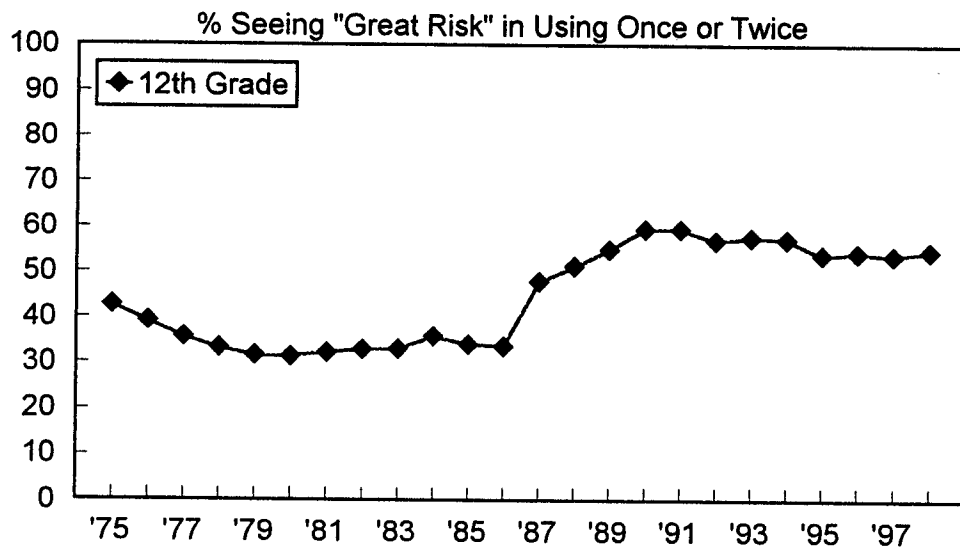
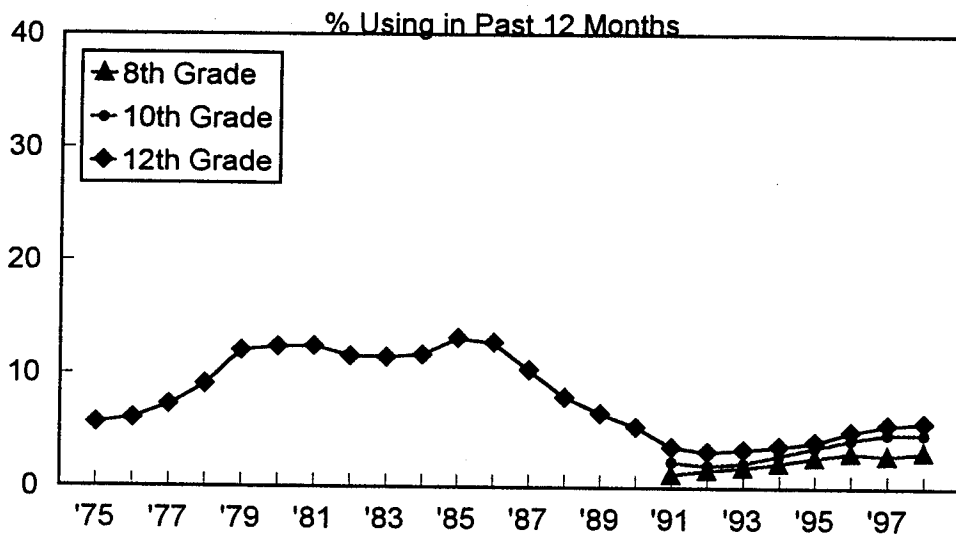
**FIGURE 5**  
**Inhalants: Trends in Annual Prevalence, Perceived Risk, and Disapproval**



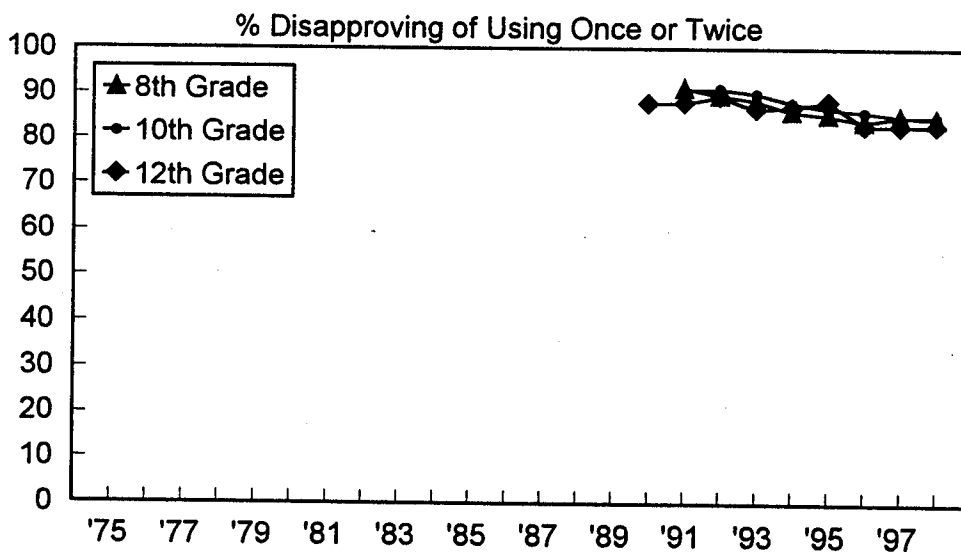
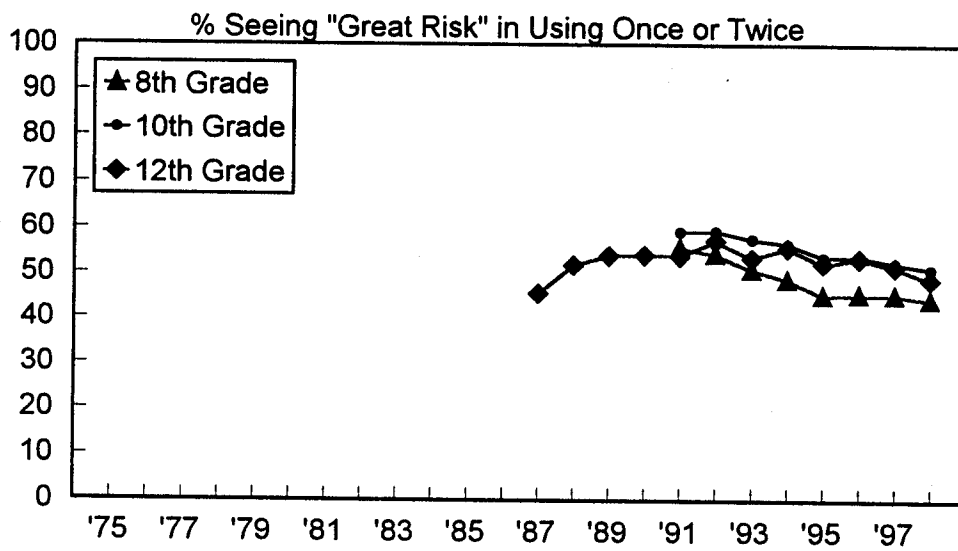
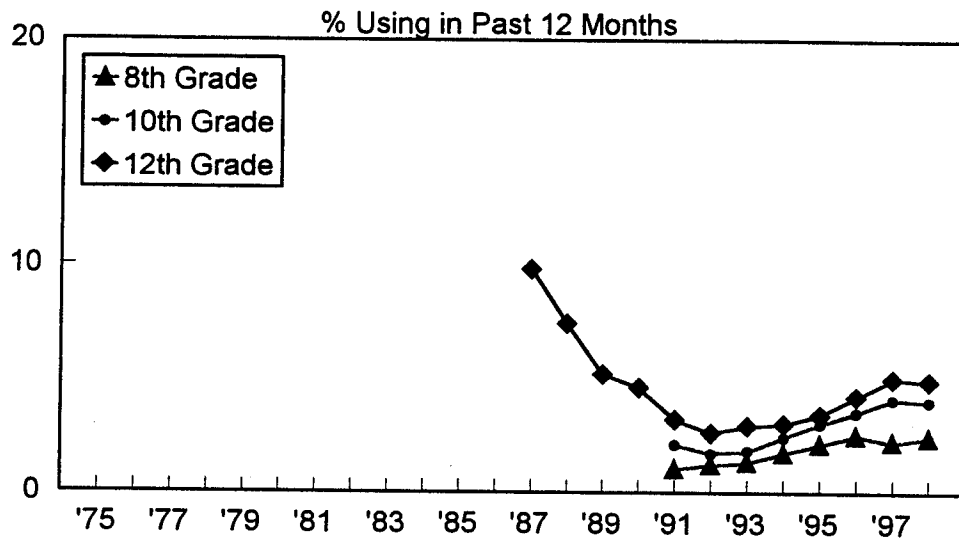
**FIGURE 6**  
**Heroin: Trends in Annual Prevalence, Perceived Risk,**  
**and Disapproval**



**FIGURE 7**  
**Cocaine: Trends in Annual Prevalence, Perceived Risk, and Disapproval**

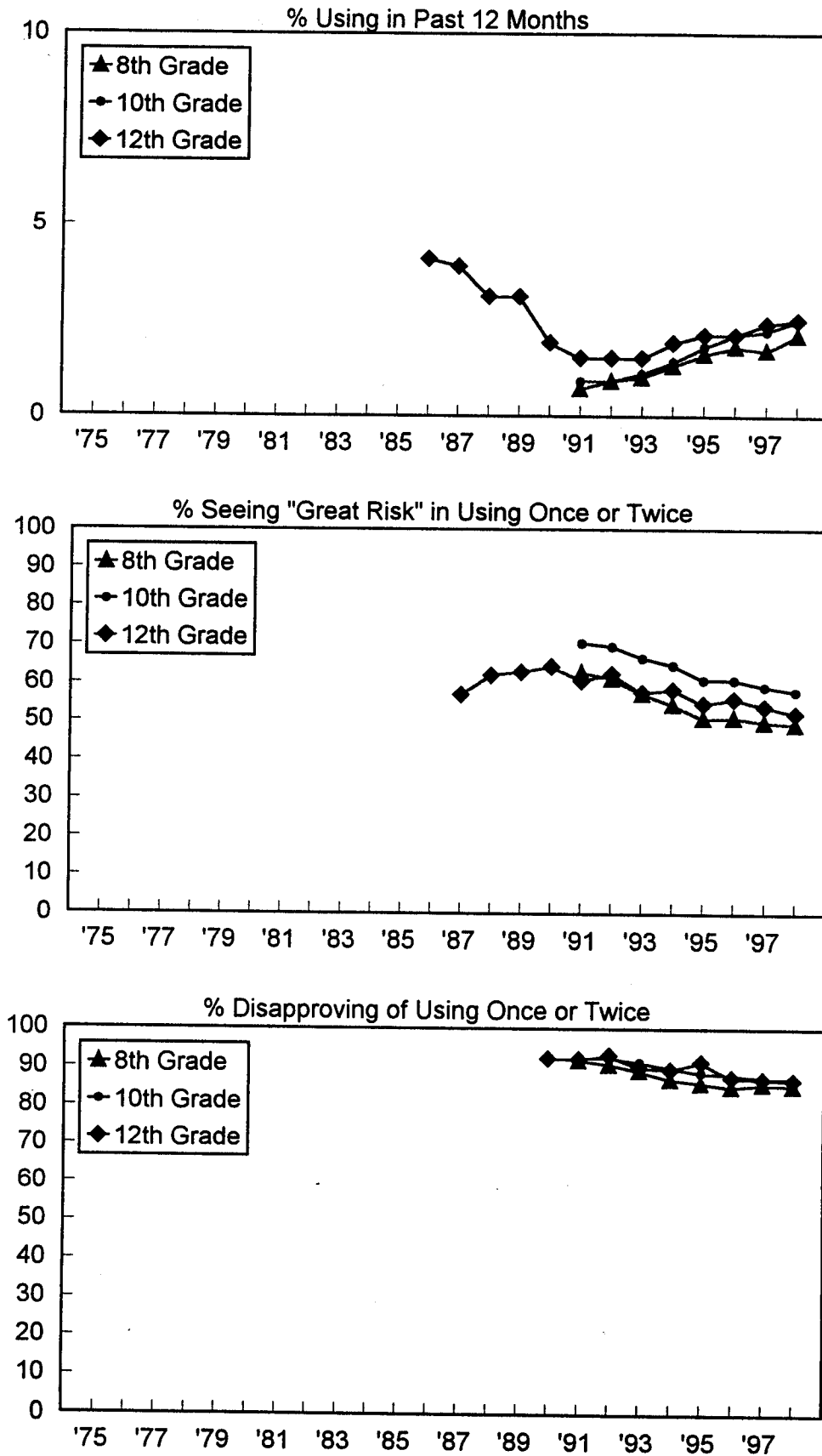


**FIGURE 8**  
**Cocaine Powder: Trends in Annual Prevalence,**  
**Perceived Risk, and Disapproval**





**FIGURE 9**  
**Crack: Trends in Annual Prevalence, Perceived Risk, and Disapproval**



**FIGURE 10**  
**Alcohol: Trends in Two-Week Prevalence of Heavy Drinking, Perceived Risk, and Disapproval**

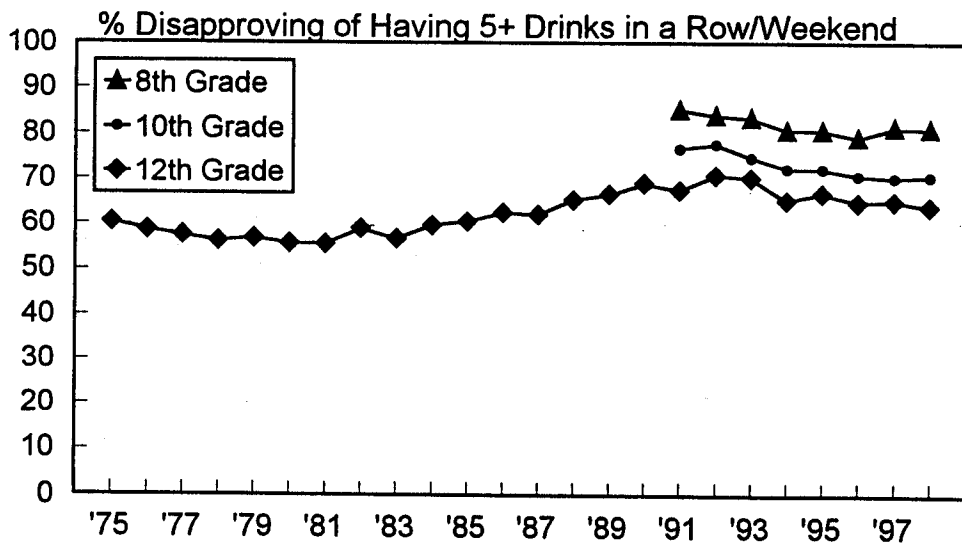
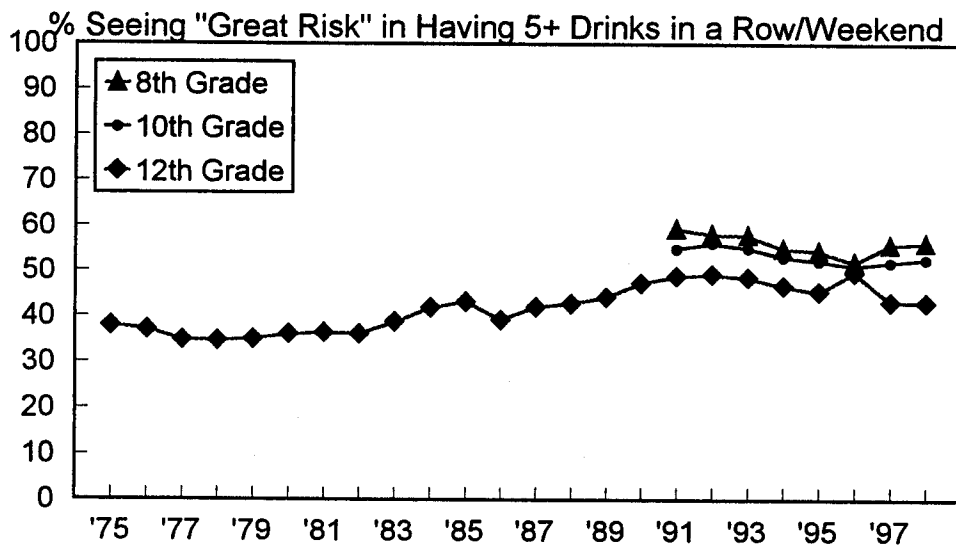
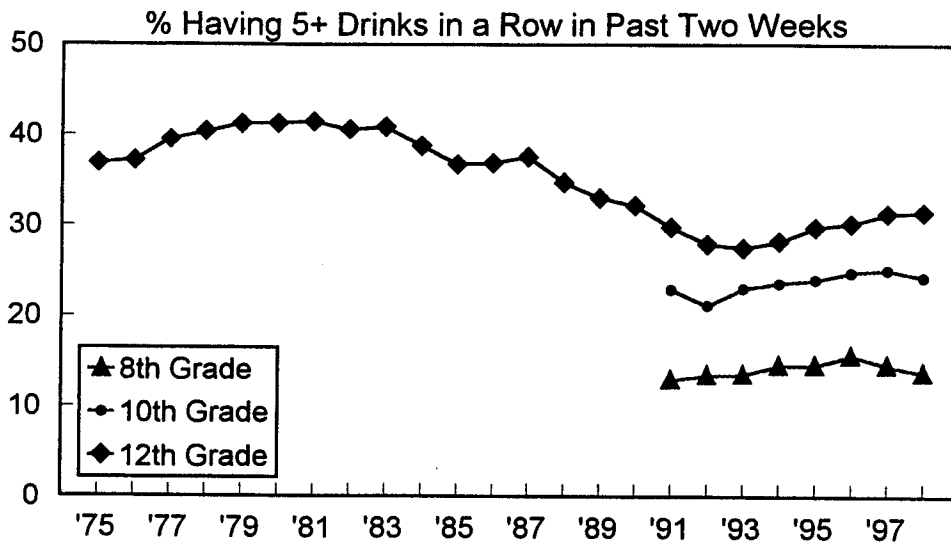


FIGURE 11

**Marijuana: Trends in Perceived Availability,  
Perceived Risk of Regular Use,  
and Prevalence of Use in Past Thirty Days for Twelfth Graders**

