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Drug trends in 1999 among American teens are mixed.

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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 of National Drug Control Policy Barry R. McCaffrey, Director of the National Institute on Drug Abuse Alan I. Leshner, 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---With a few notable exceptions, drug use among American adolescents held steady in 1999, according to the latest results from the Monitoring the Future study, conducted at the University of Michigan Institute for Social Research (ISR). Reporting on the 25th national survey of high school seniors, and the ninth national survey of eighth- and 10th-graders, ISR research scientists Lloyd D. Johnston, Jerald G. Bachman, and Patrick M. O'Malley find that, in general, the changes in 1999 are modest.

"We are down some from the recent peak levels in overall illicit drug use by American teen-agers, which were reached in 1996 and 1997," states Johnston, "but not much of that improvement occurred this year. I am hopeful that this is just a pause in a longer-term decline. In fact, we saw such a pause in the 80s, in the middle of what turned out to be a continuing decline in drug use."

The investigators note that, after several years of steady increase, the annual prevalence rates for most drugs reached their recent peak levels in the mid 1990s--- inhalants in 1995; hallucinogens, including LSD and PCP, in 1996; and marijuana and amphetamines in 1996 or 1997 (depending on the age of the students). The overall

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proportions reporting any illicit drug use in the prior year peaked among younger teens in 1996 and among older teens in 1997. In general, the usage statistics have been receding since then, at least until 1999.

Drugs which showed little change in use this year include marijuana, amphetamines, hallucinogens, tranquilizers, and heroin.

Monitoring the Future is conducted at the U-M Institute for Social Research (ISR) and is supported under a series of research grants from the National Institute on Drug Abuse, one of the National Institutes of Health in the U.S. Department of Health and Human Services.

One of the brightest spots in this year's story is that inhalant use appeared to continue its longer-term, very gradual decline at all three grades (although none of this year's changes were large enough to be statistically significant).

The use of inhalants began to turn downward in 1996, following the launching of an ad campaign by the Partnership for a Drug-Free America, and has been gradually and steadily declining since then. Inhalants are about the only drugs that are used more by younger teens than by older ones.

The use of nitrite inhalants, specifically, which is only asked of the 12th-graders, declined significantly in 1999. Less than 1 percent (0.9 percent) reported any nitrite use in the prior 12 months.

Another bright spot in this year's results is a significant drop in the use of crack cocaine among both eighth- and 10th-graders in 1999, following several years of gradually increasing use. While the rates of crack use in the 90s never attained the peak level of the original crack epidemic in the mid 80s, according to Johnston, the increase in use was still a matter of concern, given the addictive potential of that drug.

While overall amphetamine use changed little in 1999, the use of "ice" or crystal methamphetamine, declined significantly among 12th-graders to its lowest level in five years. (Only 12th-graders are asked about using ice.) Ice comes in chunks or "rocks" which can be heated and the fumes inhaled, much as is done with crack cocaine. Also like crack, it can be highly addictive. The proportion of 12th-graders indicating any use of ice

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in the prior 12 months fell from 3 percent in 1998 to 1.9 percent in 1999. (The proportions taking methamphetamines in any form, including ice, is higher---3.2 percent in eighth-grade, 4.6 percent in 10th-grade, and 4.7 percent in 12th-grade. Since the question on overall methamphetamine use was added to the survey for the first time in 1999, no trend statistics are yet available for that more general class of drugs.)

A "club drug" added to the study in 1996, rohypnol---one of the so-called "date rape drugs"---showed a small decline in use in all grades this year, though only the eighth-grade decline was large enough to be statistically significant. The annual prevalence of use is only 0.5 percent in eighth-grade and 1 percent in 10th- and 12th-grades.

The continuing decline in cigarette smoking among the younger teens was some other favorable news, according to the investigators. [Those findings are reported in detail in a separate press release.]

On the negative side of the ledger, the use of MDMA ("ecstasy"), which is one of the so-called "club drugs" because of its popularity at dance clubs and raves, rose among the older teens (10th- and 12th-graders). "While the use of this drug had been declining since we first measured it in 1996, for some reason it made a resurgence in 1999," says Johnston. Some 4.4 percent of the 1999 10th-graders reported some use of ecstasy during the prior 12 months (up from 3.3 percent in 1998) and 5.6 percent of the 12th-graders (up from 3.6 percent in 1998).

"Unfortunately we do not have data on the use of GHB, or gamma hydroxybutyrate, which, like rohypnol, is another so-called 'date rape drug' receiving considerable attention at present," says Johnston. "A number of the deaths associated with GHB have resulted from a person putting the drug into another person's drink without their knowledge," he adds, "so I don't know how accurately people can report whether they have taken it. But clearly it is a very dangerous drug, and the mounting accidental death toll among young people proves it. We will be asking about its use in our next survey."

The use of anabolic steroids by males in their early- to mid-teens jumped some in 1999. Among eighth-grade boys, the proportion reporting any use in the prior year rose from 1.6 percent in 1998 to 2.5 percent in 1999, while among 10th-grade boys there was an

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increase from 1.9 percent to 2.8 percent. This increase occurred fairly broadly across different regions and communities of different sizes. No such increase occurred among the older teens (i.e., 12th-graders).

"As many had feared, we think it likely that Mark McGwire's reported use of androstenedione in the year in which he set a new homerun record affected young boys," says Johnston. Androstenedione (pronounced an-dro-STEEN-die-own) is a steroid that the body converts to testosterone, and at present it is not a controlled substance.

"Surely it gave them the idea that it could make them stronger, though we have no questions dealing directly with that belief," adds Johnston, "but it also appears to have reassured some about the safety of using steroids." Among the 12th-graders---the only grade level asked about the safety of using steroids---the proportion of all students saying that users risk harming themselves, physically or in other ways, by using steroids dropped from 68 percent to 62 percent between the 1998 and 1999 surveys---a large one-year drop. The surveys are conducted in the spring and, therefore, bracket the 1998 baseball season.

Johnston emphasizes that McGwire announced that he had stopped using androstenedione early this year, largely because of his concern about his role-modeling effect on young people. He still turned in an extraordinary performance in the 1999 season, Johnston notes.

Heroin use has remained fairly stable at all three grade levels for the last three years, after the rates had roughly doubled between 1991 and 1995. The study has shown that the amount of danger young people perceived to be associated with heroin use fell some in the first half of the 90s, quite likely as a result of the advent of non-injectable forms of heroin use. However, since 1995 there has been some recovery in the perceived risks of heroin, which likely explains the leveling off of use.

"We think that the untimely deaths of several musicians and other celebrities from heroin use, as well as the media campaign against heroin, may have influenced young peoples' view of how dangerous a drug this is, even if it is not being injected," observes Johnston.

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Alcohol use among teens has been fairly stable over the past several years, as measured by the proportion reporting any alcohol consumption in the month prior to the survey. These rates stand at 24 percent, 40 percent, and 51 percent in grades eight, 10, and 12, respectively. There may have been a slight one-year "uptick" in binge drinking---consuming five or more drinks in a row sometime in the prior two weeks---in the lower grades, but the rates are still about where they were two to three years ago. They stand at 15 percent, 26 percent, and 31 percent among eighth-, 10th-, and 12th-graders.

"We do not have any ready explanation of why the use of marijuana and a number of other drugs seemed to level off in 1999," Johnston says, "but we think there is a fair chance that it simply reflects a pause in a longer-term decline." For the most part, beliefs about the dangers associated with the use of these drugs---which have been harbingers of change in the past---remained fairly stable in 1999. Disapproval of using marijuana rose a bit among eighth-graders. Disapproval of using inhalants rose among both eighth- and 10th-graders.

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The "Monitoring the Future" study is conducted at the University of Michigan's Institute for Social Research and has been supported since its inception under a series of investigator-initiated research grants from the National Institute of Drug Abuse, one of the National Institutes of Health in the U.S. Department of Health and Human Services. Annual surveys of high school seniors began in 1975, and annual surveys of eighth- and 10th-grade students were added, beginning in 1991. At each grade level students are drawn to be representative of all students in public and private schools in the coterminous United States. They complete self-administered, optically-scanned questionnaires given to them in their classrooms in the spring of the year by U-M personnel. In 1999 the sample sizes for eighth-, 10th-, and 12th-grades, respectively, were 17,300, 13,900, and 14,100. In all, about 45,000 students located in 433 secondary schools participated in the study.

[99drgds]

TABLE 1a

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

	<u>Lifetime</u>									<u>'98-'99 change</u>
	<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>	
Any Illicit Drug*										
8th Grade	18.7	20.6	22.5	25.7	28.5	31.2	29.4	29.0	28.3	-0.7
10th Grade	30.6	29.8	32.8	37.4	40.9	45.4	47.3	44.9	46.2	+1.3
12th Grade	44.1	40.7	42.9	45.6	48.4	50.8	54.3	54.1	54.7	+0.6
Any Illicit Drug Other Than Marijuana*										
8th Grade	14.3	15.6	16.8	17.5	18.8	19.2	17.7	16.9	16.3	-0.6
10th Grade	19.1	19.2	20.9	21.7	24.3	25.5	25.0	23.6	24.0	+0.4
12th Grade	26.9	25.1	26.7	27.6	28.1	28.5	30.0	29.4	29.4	0.0
Any Illicit Drug Including Inhalants*^b										
8th Grade	28.5	29.6	32.3	35.1	38.1	39.4	38.1	37.8	37.2	-0.6
10th Grade	36.1	36.2	38.7	42.7	45.9	49.8	50.9	49.3	49.9	+0.6
12th Grade	47.6	44.4	46.6	49.1	51.5	53.5	56.3	56.1	55.9	-0.2
Marijuana/Hashish										
8th Grade	10.2	11.2	12.6	16.7	19.9	23.1	22.6	22.2	22.0	-0.2
10th Grade	23.4	21.4	24.4	30.4	34.1	39.8	42.3	39.6	40.9	+1.3
12th Grade	36.7	32.6	35.3	38.2	41.7	44.9	49.6	49.1	49.7	+0.6
Inhalants*^{b,c}										
8th Grade	17.6	17.4	19.4	19.9	21.6	21.2	21.0	20.5	19.7	-0.8
10th Grade	15.7	16.6	17.5	18.0	19.0	19.3	18.3	18.3	17.0	-1.3
12th Grade	17.6	16.6	17.4	17.7	17.4	16.6	16.1	15.2	15.4	+0.2
Nitrites^d										
8th Grade	—	—	—	—	—	—	—	—	—	—
10th Grade	—	—	—	—	—	—	—	—	—	—
12th Grade	1.6	1.5	1.4	1.7	1.5	1.8	2.0	2.7	1.7	-1.0
Hallucinogens^e										
8th Grade	3.2	3.8	3.9	4.3	5.2	5.9	5.4	4.9	4.8	-0.1
10th Grade	6.1	6.4	6.8	8.1	9.3	10.5	10.5	9.8	9.7	-0.1
12th Grade	9.6	9.2	10.9	11.4	12.7	14.0	15.1	14.1	13.7	-0.4
LSD										
8th Grade	2.7	3.2	3.5	3.7	4.4	5.1	4.7	4.1	4.1	0.0
10th Grade	5.6	5.8	6.2	7.2	8.4	9.4	9.5	8.5	8.5	0.0
12th Grade	8.8	8.6	10.3	10.5	11.7	12.6	13.6	12.6	12.2	-0.4

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TABLE 1a (cont.)

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

	Lifetime									'98-'99 change
	1991	1992	1993	1994	1995	1996	1997	1998	1999	
Hallucinogens Other Than LSD										
8th Grade	1.4	1.7	1.7	2.2	2.5	3.0	2.6	2.5	2.4	-0.1
10th Grade	2.2	2.5	2.8	3.8	3.9	4.7	4.8	5.0	4.7	-0.3
12th Grade	3.7	3.3	3.9	4.9	5.4	6.8	7.5	7.1	6.7	-0.4
PCP ^d										
8th Grade	—	—	—	—	—	—	—	—	—	—
10th Grade	—	—	—	—	—	—	—	—	—	—
12th Grade	2.9	2.4	2.9	2.8	2.7	4.0	3.9	3.9	3.4	-0.5
MDMA (Ecstasy) ^d										
8th Grade	—	—	—	—	—	3.4	3.2	2.7	2.7	0.0
10th Grade	—	—	—	—	—	5.6	5.7	5.1	6.0	+0.9
12th Grade	—	—	—	—	—	6.1	6.9	5.8	8.0	+2.3s
Cocaine										
8th Grade	2.3	2.9	2.9	3.6	4.2	4.5	4.4	4.6	4.7	+0.1
10th Grade	4.1	3.3	3.6	4.3	5.0	6.5	7.1	7.2	7.7	+0.5
12th Grade	7.8	6.1	6.1	5.9	6.0	7.1	8.7	9.3	9.8	+0.5
Crack										
8th Grade	1.3	1.6	1.7	2.4	2.7	2.9	2.7	3.2	3.1	-0.1
10th Grade	1.7	1.5	1.8	2.1	2.8	3.3	3.6	3.9	4.0	+0.1
12th Grade	3.1	2.6	2.6	3.0	3.0	3.3	3.9	4.4	4.6	+0.2
Other Cocaine ^e										
8th Grade	2.0	2.4	2.4	3.0	3.4	3.8	3.5	3.7	3.8	+0.1
10th Grade	3.8	3.0	3.3	3.8	4.4	5.5	6.1	6.4	6.8	+0.4
12th Grade	7.0	5.3	5.4	5.2	5.1	6.4	8.2	8.4	8.8	+0.4
Heroin ^f										
8th Grade	1.2	1.4	1.4	2.0	2.3	2.4	2.1	2.3	2.3	0.0
10th Grade	1.2	1.2	1.3	1.5	1.7	2.1	2.1	2.3	2.3	0.0
12th Grade	0.9	1.2	1.1	1.2	1.6	1.8	2.1	2.0	2.0	0.0
Other Narcotics ^g										
8th Grade	—	—	—	—	—	—	—	—	—	—
10th Grade	—	—	—	—	—	—	—	—	—	—
12th Grade	6.6	6.1	6.4	6.6	7.2	8.2	9.7	9.8	10.2	+0.4
Amphetamines ^h										
8th Grade	10.5	10.8	11.8	12.3	13.1	13.5	12.3	11.3	10.7	-0.6
10th Grade	13.2	13.1	14.9	15.1	17.4	17.7	17.0	16.0	15.7	-0.3
12th Grade	15.4	13.9	15.1	15.7	15.3	15.3	16.5	16.4	16.3	-0.1

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TABLE 1a (cont.)

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

	Lifetime									'98-'99 change
	1991	1992	1993	1994	1995	1996	1997	1998	1999	
Ice ^b										
8th Grade	—	—	—	—	—	—	—	—	—	—
10th Grade	—	—	—	—	—	—	—	—	—	—
12th Grade	3.3	2.9	3.1	3.4	3.9	4.4	4.4	5.3	4.8	-0.5
Barbiturates ^c										
8th Grade	—	—	—	—	—	—	—	—	—	—
10th Grade	—	—	—	—	—	—	—	—	—	—
12th Grade	6.2	5.5	6.3	7.0	7.4	7.6	8.1	8.7	8.9	+0.2
Tranquilizers ^c										
8th Grade	3.8	4.1	4.4	4.6	4.5	5.3	4.8	4.6	4.4	-0.2
10th Grade	5.8	5.9	5.7	5.4	6.0	7.1	7.3	7.8	7.9	+0.1
12th Grade	7.2	6.0	6.4	6.6	7.1	7.2	7.8	8.5	9.3	+0.8
Alcohol ⁱ										
Any use										
8th Grade	70.1	69.3	67.1	—	—	—	—	—	—	—
10th Grade	83.8	82.3	80.8	55.7	54.5	55.3	53.8	52.5	52.1	-0.4
12th Grade	88.0	87.5	87.0	71.6	71.1	70.5	71.8	72.0	69.8	+0.8
8th Grade			80.0	80.4	80.7	79.2	81.7	81.4	80.0	-1.4
Been Drunk ^b										
8th Grade	26.7	26.8	26.4	25.9	25.3	26.8	25.2	24.8	24.8	0.0
10th Grade	50.0	47.7	47.9	47.2	46.9	48.5	49.4	46.7	48.9	+2.2
12th Grade	65.4	63.4	62.5	62.9	63.2	61.8	64.2	62.4	62.3	-0.1
Cigarettes										
Any use										
8th Grade	44.0	45.2	45.3	46.1	46.4	49.2	47.3	45.7	44.1	-1.6
10th Grade	55.1	53.5	56.3	56.9	57.6	61.2	60.2	57.7	57.6	-0.1
12th Grade	63.1	61.8	61.9	62.0	64.2	63.5	65.4	65.3	64.6	-0.7
Smokeless Tobacco ^d										
8th Grade	22.2	20.7	18.7	19.9	20.0	20.4	16.8	15.0	14.4	-0.6
10th Grade	28.2	26.6	28.1	29.2	27.6	27.4	26.3	22.7	20.4	-2.3
12th Grade	—	32.4	31.0	30.7	30.9	29.8	25.3	26.2	23.4	-2.8
Steroids ^h										
8th Grade	1.9	1.7	1.6	2.0	2.0	1.8	1.8	2.3	2.7	+0.4
10th Grade	1.8	1.7	1.7	1.8	2.0	1.8	2.0	2.0	2.7	+0.7 ^{ss}
12th Grade	2.1	2.1	2.0	2.4	2.3	1.9	2.4	2.7	2.9	+0.2

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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	1999	'98-'99 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	'98-'99 change
Any Illicit Drug*	11.3	12.9	15.1	18.5	21.4	23.6	22.1	21.0	20.5	-0.5	5.7	6.8	8.4	10.9	12.4	14.6	12.9	12.1	12.2	+0.1
8th Grade	21.4	20.4	24.7	30.0	33.3	37.5	38.5	35.0	35.9	+0.9	11.6	11.0	14.0	18.5	20.2	23.2	23.0	21.5	22.1	+0.6
10th Grade	29.4	27.1	31.0	35.8	39.0	40.2	42.4	41.4	42.1	+0.7	16.4	14.4	18.3	21.9	23.8	24.6	26.2	25.6	25.9	+0.3
12th Grade																				
Any Illicit Drug Other Than Marijuana*	8.4	9.3	10.4	11.3	12.6	13.1	11.8	11.0	10.5	-0.5	3.8	4.7	5.3	5.6	6.5	6.9	6.0	5.5	5.5	0.0
8th Grade	12.2	12.3	13.9	15.2	17.5	18.4	18.2	16.6	16.7	+0.1	5.5	5.7	6.5	7.1	8.9	8.9	8.8	8.6	8.6	0.0
10th Grade	16.2	14.9	17.1	18.0	19.4	19.8	20.7	20.2	20.7	+0.5	7.1	6.3	7.9	8.8	10.0	9.5	10.7	10.7	10.4	-0.3
12th Grade																				
Any Illicit Drug Including Inhalants ^b	16.7	18.2	21.1	24.2	27.1	28.7	27.2	26.2	25.3	-0.9	8.8	10.0	12.0	14.3	16.1	17.5	16.0	14.9	15.1	+0.2
8th Grade	23.9	23.5	27.4	32.5	35.6	39.6	40.3	37.1	37.7	+0.6	13.1	12.6	15.5	20.0	21.6	24.5	24.1	22.5	23.1	+0.6
10th Grade	31.2	28.8	32.5	37.6	40.2	41.9	43.3	42.4	43.1	+0.7	17.8	15.5	19.3	23.0	24.8	25.5	26.9	26.6	26.5	-0.1
12th Grade																				
Marijuana/Hashish	6.2	7.2	9.2	13.0	15.8	18.3	17.7	16.9	16.5	-0.4	3.2	3.7	5.1	7.8	9.1	11.3	10.2	9.7	9.7	0.0
8th Grade	16.5	15.2	19.2	25.2	28.7	33.6	34.8	31.1	32.1	+1.0	8.7	8.1	10.9	15.8	17.2	20.4	20.5	18.7	19.4	+0.7
10th Grade	23.9	21.9	26.0	30.7	34.7	35.8	38.5	37.5	37.8	+0.3	13.8	11.9	15.5	19.0	21.2	21.9	23.7	22.8	23.1	+0.3
12th Grade																				
Inhalants ^{b,c}	9.0	9.5	11.0	11.7	12.8	12.2	11.8	11.1	10.3	-0.8	4.4	4.7	5.4	5.6	6.1	5.8	5.6	4.8	5.0	+0.2
8th Grade	7.1	7.5	8.4	9.1	9.6	9.5	8.7	8.0	7.2	-0.8	2.7	2.7	3.3	3.6	3.5	3.3	3.0	2.9	2.6	-0.3
10th Grade	6.6	6.2	7.0	7.7	8.0	7.6	6.7	6.2	5.6	-0.6	2.4	2.3	2.5	2.7	3.2	2.5	2.5	2.3	2.0	-0.3
12th Grade																				
Nitrites ^d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10th Grade	0.9	0.5	0.9	1.1	1.1	1.6	1.2	1.4	0.9	-0.5	0.4	0.3	0.6	0.4	0.4	0.7	0.7	1.0	0.4	-0.6s
12th Grade																				
Hallucinogens ^e	1.9	2.5	2.6	2.7	3.6	4.1	3.7	3.4	2.9	-0.5	0.8	1.1	1.2	1.3	1.7	1.9	1.8	1.4	1.3	-0.1
8th Grade	4.0	4.3	4.7	5.8	7.2	7.8	7.6	6.9	6.9	0.0	1.6	1.8	1.9	2.4	3.3	2.8	3.3	3.2	2.9	-0.3
10th Grade	5.8	5.9	7.4	7.6	9.3	10.1	9.8	9.0	9.4	+0.4	2.2	2.1	2.7	3.1	4.4	3.5	3.9	3.8	3.5	-0.3
12th Grade																				
LSD	1.7	2.1	2.3	2.4	3.2	3.5	3.2	2.8	2.4	-0.4	0.6	0.9	1.0	1.1	1.4	1.5	1.5	1.1	1.1	0.0
8th Grade	3.7	4.0	4.2	5.2	6.5	6.9	6.7	5.9	6.0	+0.1	1.5	1.6	1.6	2.0	3.0	2.4	2.8	2.7	2.3	-0.4
10th Grade	5.2	5.6	6.8	6.9	8.4	8.8	8.4	7.6	8.1	+0.5	1.9	2.0	2.4	2.6	4.0	2.5	3.1	3.2	2.7	-0.5
12th Grade																				
Hallucinogens Other Than LSD	0.7	1.1	1.0	1.3	1.7	2.0	1.8	1.6	1.5	-0.1	0.3	0.4	0.5	0.7	0.8	0.9	0.7	0.7	0.6	-0.1
8th Grade	1.3	1.4	1.9	2.4	2.8	3.3	3.3	3.4	3.2	-0.2	0.4	0.5	0.7	1.0	1.0	1.0	1.2	1.4	1.2	-0.2
10th Grade	2.0	1.7	2.2	3.1	3.8	4.4	4.6	4.6	4.3	-0.3	0.7	0.5	0.8	1.2	1.3	1.6	1.7	1.6	1.6	0.0
12th Grade																				

(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	1999	'98-'99 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	'98-'99 change
PCP ^d																				
8th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12th Grade	1.4	1.4	1.4	1.6	1.8	2.6	2.3	2.1	1.8	-0.3	0.5	0.6	1.0	0.7	0.6	1.3	0.7	1.0	0.8	-0.2
MDMA (Ecstasy) ^d																				
8th Grade	—	—	—	—	—	2.3	2.3	1.8	1.7	-0.1	—	—	—	—	—	1.0	1.0	0.9	0.8	-0.1
10th Grade	—	—	—	—	—	4.6	3.9	3.3	4.4	+1.1s	—	—	—	—	—	1.8	1.3	1.3	1.8	+0.5
12th Grade	—	—	—	—	—	4.6	4.0	3.6	5.6	+2.0ss	—	—	—	—	—	2.0	1.6	1.5	2.5	+1.0s
Cocaine																				
8th Grade	1.1	1.5	1.7	2.1	2.6	3.0	2.8	3.1	2.7	-0.4	0.5	0.7	0.7	1.0	1.2	1.3	1.1	1.4	1.3	-0.1
10th Grade	2.2	1.9	2.1	2.8	3.5	4.2	4.7	4.7	4.9	+0.2	0.7	0.7	0.9	1.2	1.7	1.7	2.0	2.1	1.8	-0.3
12th Grade	3.5	3.1	3.3	3.6	4.0	4.9	5.5	5.7	6.2	+0.5	1.4	1.3	1.3	1.5	1.8	2.0	2.3	2.4	2.6	+0.2
Crack																				
8th Grade	0.7	0.9	1.0	1.3	1.6	1.8	1.7	2.1	1.8	-0.4s	0.3	0.5	0.4	0.7	0.7	0.8	0.7	0.9	0.8	-0.1
10th Grade	0.9	0.9	1.1	1.4	1.8	2.1	2.2	2.5	2.4	-0.1	0.3	0.4	0.5	0.6	0.9	0.8	0.9	1.1	0.8	-0.3s
12th Grade	1.5	1.5	1.5	1.9	2.1	2.1	2.4	2.5	2.7	+0.2	0.7	0.6	0.7	0.8	1.0	1.0	0.9	1.0	1.1	+0.1
Other Cocaine ^e																				
8th Grade	1.0	1.2	1.3	1.7	2.1	2.5	2.2	2.4	2.3	-0.1	0.5	0.5	0.6	0.9	1.0	1.0	0.8	1.0	1.1	+0.1
10th Grade	2.1	1.7	1.8	2.4	3.0	3.5	4.1	4.0	4.4	+0.4	0.6	0.6	0.7	1.0	1.4	1.3	1.6	1.8	1.6	-0.2
12th Grade	3.2	2.6	2.9	3.0	3.4	4.2	5.0	4.9	5.8	+0.9	1.2	1.0	1.2	1.3	1.3	1.6	2.0	2.0	2.5	+0.5
Heroin ^f																				
8th Grade	0.7	0.7	0.7	1.2	1.4	1.6	1.3	1.3	1.4	+0.1	0.3	0.4	0.4	0.6	0.6	0.7	0.6	0.6	0.6	0.0
10th Grade	0.5	0.6	0.7	0.9	1.1	1.2	1.4	1.4	1.4	0.0	0.2	0.2	0.3	0.4	0.6	0.5	0.6	0.7	0.7	0.0
12th Grade	0.4	0.6	0.5	0.6	1.1	1.0	1.2	1.0	1.1	+0.1	0.2	0.3	0.2	0.3	0.6	0.5	0.5	0.5	0.5	0.0
Other Narcotics ^g																				
8th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12th Grade	3.5	3.3	3.6	3.8	4.7	5.4	6.2	6.3	6.7	+0.4	1.1	1.2	1.3	1.5	1.8	2.0	2.3	2.4	2.6	+0.2
Amphetamines ^h																				
8th Grade	6.2	6.5	7.2	7.9	8.7	9.1	8.1	7.2	6.9	-0.3	2.6	3.3	3.6	3.6	4.2	4.6	3.8	3.3	3.4	+0.1
10th Grade	8.2	8.2	9.6	10.2	11.9	12.4	12.1	10.7	10.4	-0.3	3.3	3.6	4.3	4.5	5.3	5.5	5.1	5.1	5.0	-0.1
12th Grade	8.2	7.1	8.4	9.4	9.3	9.5	10.2	10.1	10.2	+0.1	3.2	2.8	3.7	4.0	4.0	4.1	4.8	4.6	4.5	-0.1
Ice ^b																				
8th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12th Grade	1.4	1.3	1.7	1.8	2.4	2.8	2.3	3.0	1.9	-1.1ss	0.6	0.5	0.6	0.7	1.1	1.1	0.8	1.2	0.8	-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	1999	'98-'99 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	'98-'99 change		
Barbiturates ^f																						
8th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
10th Grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
12th Grade	3.4	2.8	3.4	4.1	4.7	4.9	5.1	5.5	5.8	+0.3	1.4	1.1	1.3	1.7	2.2	2.1	2.1	2.6	2.6	0.0		
Tranquilizers ^f																						
8th Grade	1.8	2.0	2.1	2.4	2.7	3.3	2.9	2.6	2.5	-0.1	0.8	0.8	0.9	1.1	1.2	1.5	1.2	1.2	1.1	-0.1		
10th Grade	3.2	3.5	3.3	3.3	4.0	4.6	4.9	5.1	5.4	+0.3	1.2	1.5	1.1	1.5	1.7	1.7	2.2	2.2	2.2	0.0		
12th Grade	3.6	2.8	3.5	3.7	4.4	4.6	4.7	5.5	5.8	+0.3	1.4	1.0	1.2	1.4	1.8	2.0	1.8	2.4	2.5	+0.1		
Alcohol ⁱ																						
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	43.5	-0.2	42.8	39.9	41.5	24.3	25.5	24.6	26.2	24.5	23.0	24.0	+1.0
12th Grade	77.7	76.8	76.0	63.4	63.9	63.5	65.0	65.2	62.7	63.7	+1.0	54.0	51.3	51.0	38.2	39.2	38.8	40.4	40.1	38.8	40.0	+1.2
12th Grade			72.7	73.0	73.7	72.5	74.8	74.3	73.8	-0.5			48.6	50.1	51.3	50.8	52.7	52.0	51.0	—	-1.0	
Been Drunk ^h																						
8th Grade	17.5	18.3	18.2	18.2	18.4	19.8	18.4	17.9	18.5	+0.6	7.6	7.5	7.8	8.7	8.3	9.6	8.2	8.4	9.4	+1.0		
10th Grade	40.1	37.0	37.8	38.0	38.5	40.1	40.7	38.3	40.9	+2.6s	20.5	18.1	19.8	20.3	20.8	21.3	22.4	21.1	22.5	+1.4		
12th Grade	52.7	50.3	49.6	51.7	52.5	51.9	53.2	52.0	53.2	+1.2	31.6	29.9	28.9	30.8	33.2	31.3	34.2	32.9	32.9	0.0		
Cigarettes																						
Any use																						
8th Grade	—	—	—	—	—	—	—	—	—	—	14.3	15.5	16.7	18.6	19.1	21.0	19.4	19.1	17.5	-1.6s		
10th Grade	—	—	—	—	—	—	—	—	—	—	20.8	21.5	24.7	25.4	27.9	30.4	29.8	27.6	25.7	-1.9		
12th Grade	—	—	—	—	—	—	—	—	—	—	28.3	27.8	29.9	31.2	33.5	34.0	36.5	35.1	34.6	-0.5		
Smokeless Tobacco ^d																						
8th Grade	—	—	—	—	—	—	—	—	—	—	6.9	7.0	6.6	7.7	7.1	7.1	5.5	4.8	4.5	-0.3		
10th Grade	—	—	—	—	—	—	—	—	—	—	10.0	9.6	10.4	10.5	9.7	8.6	8.9	7.5	6.5	-1.0		
12th Grade	—	—	—	—	—	—	—	—	—	—	—	11.4	10.7	11.1	12.2	9.8	9.7	8.8	8.4	-0.4		
Steroids ^h																						
8th Grade	1.0	1.1	0.9	1.2	1.0	0.9	1.0	1.2	1.7	+0.5sss	0.4	0.5	0.5	0.5	0.6	0.4	0.5	0.5	0.7	+0.2s		
10th Grade	1.1	1.1	1.0	1.1	1.2	1.2	1.2	1.2	1.7	+0.5ss	0.6	0.6	0.5	0.6	0.6	0.5	0.7	0.6	0.9	+0.3s		
12th Grade	1.4	1.1	1.2	1.3	1.5	1.4	1.4	1.7	1.8	+0.1	0.8	0.6	0.7	0.9	0.7	0.7	1.0	1.1	0.9	-0.2		

(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>									<u>'98-'99</u> <u>change</u>
	<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>	
Marijuana/Hashish ¹										
8th Grade	0.2	0.2	0.4	0.7	0.8	1.5	1.1	1.1	1.4	+0.3
10th Grade	0.8	0.8	1.0	2.2	2.8	3.5	3.7	3.6	3.8	+0.2
12th Grade	2.0	1.9	2.4	3.6	4.6	4.9	5.8	5.6	6.0	+0.4
Alcohol ¹⁴										
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	1.0	+0.1
12th Grade	3.6	3.4	1.8	1.7	1.7	1.6	1.7	1.9	1.9	0.0
5+ drinks in last 2 weeks			3.4	2.9	3.5	3.7	3.9	3.9	3.4	-0.6s
8th Grade	12.9	13.4	13.5	14.5	14.5	15.6	14.5	13.7	15.2	+1.5s
10th Grade	22.9	21.1	23.0	23.6	24.0	24.8	25.1	24.3	25.6	+1.3
12th Grade	29.8	27.9	27.5	28.2	29.8	30.2	31.3	31.5	30.8	-0.7
Cigarettes										
Any daily use										
8th Grade	7.2	7.0	8.3	8.8	9.3	10.4	9.0	8.8	8.1	-0.7
10th Grade	12.6	12.3	14.2	14.6	16.3	18.3	18.0	15.8	15.9	+0.1
12th Grade	18.5	17.2	19.0	19.4	21.6	22.2	24.6	22.4	23.1	+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	-0.3
10th Grade	6.5	6.0	7.0	7.6	8.3	9.4	8.6	7.9	7.6	-0.3
12th Grade	10.7	10.0	10.9	11.2	12.4	13.0	14.3	12.6	13.2	+0.6
Smokeless Tobacco ⁴										
8th Grade	1.6	1.8	1.5	1.9	1.2	1.5	1.0	1.0	0.9	-0.1
10th Grade	3.3	3.0	3.3	3.0	2.7	2.2	2.2	2.2	1.5	-0.7
12th Grade	—	4.3	3.3	3.9	3.6	3.3	4.4	3.2	2.9	-0.3

(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.

Any apparent inconsistency between the change estimate and the prevalence of use estimates for the two years is due to rounding error.

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

Approximate Weighted Ns	1991	1992	1993	1994	1995	1996	1997	1998	1999
8th Grade	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700
10th Grade	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600
12th Grade	15,000	15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600

^aFor 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 narcotics, amphetamines, barbiturates, or tranquilizers not under a doctor's orders. For 8th and 10th graders: The use of other narcotics 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).

^bFor 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 one-half of N indicated.

^cInhalants are unadjusted for underreporting of amyl and butyl nitrites; hallucinogens are unadjusted for underreporting of PCP.

^dFor 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.

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

^fIn 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.

^gOnly drug use which was not under a doctor's orders is included here.

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

ⁱFor 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 1994-99 were based on all forms for all grades.

^jDaily 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																								'98-'99 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		Class of 1999		
<i>Approx. N =</i>	9400	15400	17100	17800	15500	15900	17500	17700	16300	15900	16000	15200	16300	16300	16700	15200	15000	15800	16300	15400	15400	14300	15400	15200	13600			
Any Illicit Drug ^{a,b}	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	54.7	+0.6		
Any Illicit Drug Other Than Marijuana ^{a,b}	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	29.4	0.0		
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	49.7	+0.6		
Inhalants ^c	—	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	15.4	+0.2		
Inhalants, Adjusted ^d Amyl/Butyl Nitrites ^{e,f}	—	—	—	—	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	16.0	-0.5		
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	13.7	-0.4		
Hallucinogens, Adjusted ^g 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	14.2	-0.2		
PCP ^{e,f}	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	12.2	-0.4		
MDMA (Ecstasy) ^e	—	—	—	—	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	3.4	-0.5		
Cocaine	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.1	6.9	5.8	8.0	+2.3s		
Crack ^h	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	9.8	+0.5		
Other Cocaine ⁱ	—	—	—	—	—	—	—	—	—	—	—	—	5.4	4.8	4.7	3.5	3.1	2.6	2.6	3.0	3.0	3.3	3.9	4.4	4.6	+0.2		
Heroin ^j	—	—	—	—	—	—	—	—	—	—	—	—	14.0	12.1	8.5	8.6	7.0	5.3	5.4	5.2	5.1	6.4	8.2	8.4	8.8	+0.4		
Other Narcotics ^k	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	2.0	0.0		
Amphetamines ^{b,k}	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	10.2	+0.4		
Crystal Meth. (Ice) ^l	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	16.3	-0.1		
Sedatives ^{k,m}	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.7	3.3	2.9	3.1	3.4	3.9	4.4	4.4	5.3	4.8	-0.5		
Barbiturates ^k	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	9.5	+0.3		
Methaqualone ^{k,m}	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	8.9	+0.2		
Tranquilizers ^k	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	1.8	+0.2		
Alcohol ⁿ	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	9.3	+0.8		
Been Drunk ^l	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	—	—	—	—	—	—	—		
																			80.0	80.4	80.7	79.2	81.7	81.4	80.0	-1.4		
Cigarettes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	65.4	63.4	62.5	62.9	63.2	61.8	64.2	62.4	62.3	-0.1		
Smokeless Tobacco ^o	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	64.6	-0.7		
Steroids ^l	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.4	32.2	30.4	29.2	—	—	32.4	31.0	30.7	29.8	25.3	26.2	23.4	-2.8
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.0	2.9	2.1	2.1	2.0	2.4	2.3	1.9	2.4	2.7	2.9	+0.2		

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

*Use of "any illicit drug" includes any use of marijuana, LSD, other hallucinogens, crack, other cocaine, or heroin, or any use of other narcotics, amphetamines, barbiturates, methaqualone (excluded since 1990), or tranquilizers not under a doctor's orders.

^bBeginning in 1982 the question about amphetamine use was revised to get respondents to exclude the inappropriate reporting of nonprescription amphetamines. The prevalence of use rate dropped slightly as a result of this methodological change.

^cData 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. Data based on three of six forms beginning in 1999; N is one-half of N indicated.

^dAdjusted for underreporting of amyl and butyl nitrites. See text for details.

^eData based on one form; N is one-fifth of N indicated in 1979-88 and one-sixth of N indicated in 1989-99.

^fQuestion text changed slightly in 1987.

^gAdjusted for underreporting of PCP. See text for details.

^hData 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 1990-99.

ⁱData 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 1990-99; N is four-sixths of N indicated.

^jIn 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.

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

^lData 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.

^mSedatives: 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).

ⁿData 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 1994-99 were based on all six forms.

^oThe prevalence of use of smokeless tobacco was not asked of twelfth graders in 1990 and 1991. Prior to 1990 the prevalence of use 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																									'98-'99 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	Class of 1999		
<i>Approx. N =</i>	9400	15400	17100	17800	15500	15900	17500	17700	16300	15900	16000	15200	16300	16300	16700	15200	15000	15800	16300	15400	15400	14300	15400	15200	13600		
Any Illicit Drug ^{a,b}	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	42.1	+0.7	
Any Illicit Drug Other Than Marijuana ^{a,b}	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	20.7	+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	37.8	+0.3	
Inhalants ^c	—	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	5.6	-0.6	
Inhalants, Adjusted ^{c,d}	—	—	—	—	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	6.0	-1.1	
Amyl/Butyl Nitrites ^{e,f}	—	—	—	—	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	0.9	-0.5	
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	9.4	+0.4	
Hallucinogens, Adjusted ^g	—	—	—	—	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	9.8	+0.6	
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	8.1	+0.5	
PCP ^{e,f}	—	—	—	—	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	1.8	-0.3	
MDMA (Ecstasy) ^g	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.6	4.0	3.6	5.6	+2.0 _{ss}	
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	6.2	+0.5	
Crack ^h	—	—	—	—	—	—	—	—	—	—	—	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	2.7	+0.2	
Other Cocaine ⁱ	—	—	—	—	—	—	—	—	—	—	—	—	9.8	7.4	5.2	4.6	3.2	2.6	2.9	3.0	3.4	4.2	5.0	4.9	5.8	+0.9	
Heroin ^j	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	1.1	+0.1	
Other Narcotics ^k	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	6.7	+0.4	
Amphetamines ^{b,k}	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	10.2	+0.1	
Crystal Meth. (Ice) ^l	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.3	1.4	1.3	1.7	1.8	2.4	2.8	2.3	3.0	1.9	-1.1 _{ss}	
Sedatives ^{k,m}	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	6.3	+0.3	
Barbiturates ^k	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	5.8	+0.3	
Methaqualone ^{k,m}	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	1.1	0.0	
Tranquilizers ^k	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	5.8	+0.3	
Alcohol ⁿ	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	—	—	—	—	—	—	—	
																			72.7	73.0	73.7	72.5	74.8	74.3	73.8	-0.5	
Been Drunk ^l	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52.7	50.3	49.6	51.7	52.5	51.9	53.2	52.0	+1.2
Cigarettes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Smokeless Tobacco ^o	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Steroids ^l	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.9	1.7	1.4	1.1	1.2	1.3	1.5	1.4	1.4	1.7	1.8	+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 4

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

	Percent who used in last thirty days																								'98-'99 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		Class of 1999	
	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 13600																										
Any Illicit Drug ^{a,b}	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	25.9	+0.3	
Any Illicit Drug Other Than Marijuana ^{a,b}	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	10.4	-0.3	
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	23.1	+0.3	
Inhalants ^c	—	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	2.0	-0.3	
Inhalants, Adjusted ^d	—	—	—	—	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	2.4	-0.7	
Amyl/Butyl Nitrites ^{e,f}	—	—	—	—	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	0.4	-0.6s	
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	3.5	-0.3	
Hallucinogens, Adjusted ^g	—	—	—	—	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	3.9	-0.2	
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	2.7	-0.5	
PCP ^{e,f}	—	—	—	—	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	0.8	-0.2	
MDMA (Ecstasy) ^g	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.0	1.6	1.5	2.5	+1.0s	
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	2.6	+0.2	
Crack ^h	—	—	—	—	—	—	—	—	—	—	—	—	1.3	1.6	1.4	0.7	0.7	0.6	0.7	0.8	1.0	1.0	0.9	1.0	1.1	+0.1	
Other Cocaine ⁱ	—	—	—	—	—	—	—	—	—	—	—	—	4.1	3.2	1.9	1.7	1.2	1.0	1.2	1.3	1.3	1.6	2.0	2.0	2.5	+0.5	
Heroin ^j	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	0.5	0.0	
Other Narcotics ^k	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	2.6	+0.2	
Amphetamines ^{b,k}	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	4.5	-0.1	
Crystal Meth. (Ice) ^l	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.6	0.6	0.5	0.6	0.7	1.1	1.1	0.8	1.2	0.8	-0.4	
Sedatives ^{k,m}	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	2.8	0.0	
Barbiturates ^k	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	2.6	0.0	
Methaqualone ^{k,m}	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	0.4	-0.2	
Tranquilizers ^t	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	2.5	+0.1	
Alcohol ⁿ	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	48.6	50.1	51.3	50.8	52.7	52.0	51.0	-1.0
Been Drunk ^l	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.6	29.9	28.9	30.8	33.2	31.3	34.2	32.9	32.9	0.0	
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	34.6	-0.5	
Smokeless Tobacco ^o	—	—	—	—	—	—	—	—	—	—	—	11.5	11.3	10.3	8.4	—	—	11.4	10.7	11.1	12.2	9.8	9.7	8.8	8.4	-0.4	
Steroids ^l	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.8	1.0	0.8	0.6	0.7	0.9	0.7	0.7	1.0	1.1	0.9	-0.2	

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																										'98-'99 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	Class of 1999												
	<i>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 13600</i>																																				
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	6.0	+0.4											
Inhalants ^c	—	*	*	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	0.2	0.0										
Amyl/Butyl Nitrites ^{c,f}	—	—	—	—	*	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	0.2	-0.1											
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	0.3	0.1	0.1	0.0											
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	0.1	0.0											
PCP ^{e,f}	—	—	—	—	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	-0.1										
MDMA (Ecstasy) ^e	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0	0.1	0.2	0.1	-0.1											
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	0.2	0.0										
Crack ^h	—	—	—	—	—	—	—	—	—	—	—	—	—	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Other Cocaine ⁱ	—	—	—	—	—	—	—	—	—	—	—	—	—	0.2	0.2	0.1	0.1	0.1	*	0.1	0.1	0.1	0.1	0.1	0.1	0.2	+0.1										
Heroin ^j	0.1	*	*	*	*	*	*	*	0.1	*	*	*	*	*	*	0.1	*	*	*	*	*	0.1	0.1	0.1	0.1	0.1	0.1	0.0									
Other Narcotics ^k	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	0.2	0.1	0.2	+0.1									
Amphetamines ^{b,k}	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	0.2	0.3	0.3	0.3	0.3	0.3	0.0										
Crystal Meth. (Ice) ^j	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.1	0.1	0.1	0.1	*	0.1	0.1	0.1	*	*	0.0											
Sedatives ^{k,m}	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	0.2	+0.1										
Barbiturates ^k	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	0.2	+0.1										
Methaqualone ^{k,m}	*	*	*	*	*	0.1	0.1	0.1	0.1	*	*	*	*	*	0.1	*	*	*	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0										
Tranquilizers ^k	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	0.1	0.1	0.0										
Alcohol																																					
Daily ⁿ	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 ^l 5+ drinks in a row in last 2 weeks	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.9	0.8	0.9	3.4	2.9	3.5	3.7	3.9	3.9	3.4	-0.6s										
Cigarettes																																					
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	23.1	+0.7											
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	13.2	+0.6											
Smokeless Tobacco ^{e,o}	—	—	—	—	—	—	—	—	—	—	—	—	—	4.7	5.1	4.3	3.3	—	—	4.3	3.3	3.9	3.6	3.3	4.4	3.2	2.9	-0.3									
Steroids ^l	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.1	0.2	0.1	0.1	0.1	0.4	0.2	0.3	0.3	0.3	0.2	-0.1										

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 of use 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, 1991-99

How much do you think people risk harming themselves (physically or in other ways), if they . . .	Percentage saying "great risk" ^a																													
	8th Grade									'98-'99 change	10th Grade									'98-'99 change	12th Grade					'98-'99 change				
	1991	1992	1993	1994	1995	1996	1997	1998	1999		1991	1992	1993	1994	1995	1996	1997	1998	1999		1991	1992	1993	1994	1995		1996	1997	1998	1999
Try marijuana once or twice	40.4	39.1	36.2	31.6	28.9	27.9	25.3	28.1	28.0	0.0	30.0	31.9	29.7	24.4	21.5	20.0	18.8	19.6	19.2	-0.4	27.1	24.5	21.9	19.5	16.3	15.6	14.9	16.7	15.7	-1.0
Smoke marijuana occasionally	57.9	56.3	53.8	48.6	45.9	44.3	43.1	45.0	45.7	+0.7	48.6	48.9	46.1	38.9	35.4	32.8	31.9	32.5	33.5	+1.0	40.6	39.6	35.6	30.1	25.6	25.9	24.7	24.4	23.9	-0.5
Smoke marijuana regularly	83.8	82.0	79.6	74.3	73.0	70.9	72.7	73.0	73.3	+0.3	82.1	81.1	78.5	71.3	67.9	65.9	65.9	65.8	65.9	+0.2	78.6	76.5	72.5	65.0	60.8	59.9	58.1	58.5	57.4	-1.1
Try inhalants once or twice ^b	35.9	37.0	36.5	37.9	36.4	40.8	40.1	38.9	40.8	+1.9	37.8	38.7	40.9	42.7	41.6	47.2	47.5	45.8	48.2	+2.3s	—	—	—	—	—	—	—	—	—	—
Try inhalants regularly ^b	65.6	64.4	64.6	65.5	64.8	68.2	68.7	67.2	68.8	+1.6	69.8	67.9	69.6	71.5	71.8	75.8	74.5	73.3	76.3	+3.0ss	—	—	—	—	—	—	—	—	—	—
Take LSD once or twice ^c	—	—	42.1	38.3	36.7	36.5	37.0	34.9	34.1	-0.8	—	—	48.7	46.5	44.7	45.1	44.5	43.5	45.0	+1.5	46.6	42.3	39.5	38.8	36.4	36.2	34.7	37.4	34.9	-2.5
Take LSD regularly ^c	—	—	68.3	65.8	64.4	63.6	64.1	59.6	58.8	-0.8	—	—	78.9	75.9	75.5	75.3	73.8	72.3	73.9	+1.6	84.3	81.8	79.4	79.1	78.1	77.8	76.6	76.5	76.1	-0.4
Try crack once or twice ^b	62.8	61.2	57.2	54.4	50.8	51.0	49.9	49.3	48.7	-0.6	70.4	69.6	66.6	64.7	60.9	60.9	59.2	58.0	57.8	-0.1	60.6	62.4	57.6	58.4	54.6	56.0	54.0	52.2	48.2	-4.0s
Take crack occasionally ^b	82.2	79.6	76.8	74.4	72.1	71.6	71.2	70.6	70.6	0.0	87.4	86.4	84.4	83.1	81.2	80.3	78.7	77.5	79.1	+1.7	76.5	76.3	73.9	73.8	72.8	71.4	70.3	68.7	67.3	-1.4
Try cocaine powder once or twice ^b	55.5	54.1	50.7	48.4	44.9	45.2	45.0	44.0	43.3	-0.6	59.1	59.2	57.5	56.4	53.5	53.6	52.2	50.9	51.6	+0.7	53.6	57.1	53.2	55.4	52.0	53.2	51.4	48.5	46.1	-2.4
Take cocaine powder occasionally ^b	77.0	74.3	71.8	69.1	66.4	65.7	65.8	65.2	65.4	+0.1	82.2	80.1	79.1	77.8	75.6	75.0	73.9	71.8	73.6	+1.8	69.8	70.8	68.6	70.6	69.1	68.8	67.7	65.4	64.2	-1.2
Try heroin once or twice without using a needle ^c	—	—	—	—	60.1	61.3	63.0	62.8	63.0	+0.2	—	—	—	—	70.7	72.1	73.1	71.7	73.7	+2.0	—	—	—	—	55.6	58.6	60.5	59.6	58.5	-1.1
Take heroin occasionally without using a needle ^c	—	—	—	—	76.8	76.6	79.2	79.0	78.9	-0.1	—	—	—	—	85.1	85.8	86.5	84.9	86.5	+1.6	—	—	—	—	71.2	71.0	74.3	73.4	73.6	+0.2
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	11.6	-0.5	9.0	10.1	10.9	9.4	9.3	8.9	9.0	10.1	10.5	+0.4	9.1	8.6	8.2	7.6	5.9	7.3	6.7	8.0	8.3	+0.3
Take one or two drinks nearly every day	31.8	32.4	32.6	29.9	30.5	28.6	29.1	30.3	29.7	-0.6	36.1	36.8	35.9	32.5	31.7	31.2	31.8	31.9	32.9	+0.9	32.7	30.6	28.2	27.0	24.8	25.1	24.8	24.3	21.8	-2.5
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	55.3	-0.8	54.7	55.9	54.9	52.9	52.0	50.9	51.8	52.5	51.9	-0.6	48.6	49.0	48.3	46.5	45.2	49.5	43.0	42.8	43.1	+0.3
Smoke one or more packs of cigarettes per day ^d	51.6	50.8	52.7	50.8	49.8	50.4	52.6	54.3	54.8	+0.5	60.3	59.3	60.7	59.0	57.0	57.9	59.9	61.9	62.7	+0.8	69.4	69.2	69.5	67.6	65.6	68.2	68.7	70.8	70.8	0.0
Use smokeless tobacco regularly	35.1	35.1	36.9	35.5	33.5	34.0	35.2	36.5	37.1	+0.6	40.3	39.6	44.2	42.2	38.2	41.0	42.2	42.8	44.2	+1.4	37.4	35.5	38.9	36.6	33.2	37.4	38.6	40.9	41.1	+0.2
Take steroids ^e	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	62.1	-5.9sss
Approx. N (in thousands) =	17.4	18.7	18.4	17.4	17.5	17.9	18.8	18.1	16.7		14.7	14.8	15.3	15.9	17.0	15.7	15.6	15.0	13.6		2.5	2.7	2.8	2.6	2.6	2.4	2.6	2.5	2.3	

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.

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

^b8th and 10th grade: Beginning in 1997, data based on two-thirds of N indicated due to changes in questionnaire forms.

^c8th 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.

^d8th and 10th grade: Beginning in 1999, data based on two-thirds of N indicated due to changes in questionnaire forms.

^e8th 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"																								'98-'99 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		Class of 1999	
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	15.7	-1.0	
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	23.9	-0.5	
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	57.4	-1.1	
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	34.9	-2.5	
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	76.1	-0.4	
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	44.8	-2.0	
Try MDMA once or twice	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	33.8	34.5	35.0	+0.5	
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	52.1	-2.5	
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	70.1	0.0	
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	85.8	-0.5	
Try crack once or twice	—	—	—	—	—	—	—	—	—	—	—	—	57.0	62.1	62.9	64.3	60.6	62.4	57.6	58.4	54.6	56.0	54.0	52.2	48.2	-4.0s	
Take crack occasionally	—	—	—	—	—	—	—	—	—	—	—	—	70.4	73.2	75.3	80.4	76.5	76.3	73.9	73.8	72.8	71.4	70.3	68.7	67.3	-1.4	
Take crack regularly	—	—	—	—	—	—	—	—	—	—	—	—	84.6	84.8	85.6	91.6	90.1	89.3	87.5	89.6	88.6	88.0	86.2	85.3	85.4	+0.1	
Try cocaine powder once or twice	—	—	—	—	—	—	—	—	—	—	—	—	45.3	51.7	53.8	53.9	53.6	57.1	53.2	55.4	52.0	53.2	51.4	48.5	46.1	-2.4	
Take cocaine powder occasionally	—	—	—	—	—	—	—	—	—	—	—	—	56.8	61.9	65.8	71.1	69.8	70.8	68.6	70.6	69.1	68.8	67.7	65.4	64.2	-1.2	
Take cocaine powder regularly	—	—	—	—	—	—	—	—	—	—	—	—	81.4	82.9	83.9	90.2	88.9	88.4	87.0	88.6	87.8	86.8	86.0	84.1	84.6	+0.5	
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	56.0	-1.8	
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	77.3	+0.4	
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	89.9	+0.8	
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	32.2	-3.1	
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	66.4	-1.3	
Try crystal meth. (ice) once or twice	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	61.6	61.9	57.5	58.3	54.4	55.3	54.4	52.7	51.2	-1.5	
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	26.1	-3.0	
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	54.1	-2.3	
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	8.3	+0.3	
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	21.8	-2.5	
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	61.1	-1.0	
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	43.1	+0.3	
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	70.8	0.0	
Use smokeless tobacco regularly	—	—	—	—	—	—	—	—	—	—	—	—	25.8	30.0	33.2	32.9	34.2	37.4	35.5	38.9	36.6	33.2	37.4	38.6	40.9	41.1	+0.2
Take steroids	—	—	—	—	—	—	—	—	—	—	—	—	—	—	63.8	69.9	65.6	70.7	69.1	66.1	66.4	67.6	67.2	68.1	62.1	-5.9sss	

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 2564 2306

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, 1991-99

Do you disapprove of people who . . .	Percent who "disapprove" or "strongly disapprove" ^a																													
	8th Grade										10th Grade										12th Grade ^b									
	1991	1992	1993	1994	1995	1996	1997	1998	1999	'98-'99 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	'98-'99 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	'98-'99 change
Try marijuana once or twice	84.6	82.1	79.2	72.9	70.7	67.5	67.6	69.0	70.7	+1.8s	74.6	74.8	70.3	62.4	59.8	55.5	54.1	56.0	56.2	+0.2	68.7	69.9	63.3	57.6	56.7	52.5	51.0	51.6	48.8	-2.8
Smoke marijuana occasionally	89.5	88.1	85.7	80.9	79.7	76.5	78.1	78.4	79.3	+0.9	83.7	83.6	79.4	72.3	70.0	66.9	66.2	67.3	68.2	+1.0	79.4	79.7	75.5	68.9	66.7	62.9	63.2	64.4	62.5	-2.0
Smoke marijuana regularly	92.1	90.8	88.9	85.3	85.1	82.8	84.6	84.5	84.5	0.0	90.4	90.0	87.4	82.2	81.1	79.7	79.7	80.1	79.8	-0.3	89.3	90.1	87.6	82.3	81.9	80.0	78.8	81.2	78.6	-2.6
Try inhalants once or twice ^c	84.9	84.0	82.5	81.6	81.8	82.9	84.1	83.0	85.2	+2.2s	85.2	85.6	84.8	84.9	84.5	86.0	86.9	85.6	88.4	+2.8sss	—	—	—	—	—	—	—	—	—	—
Take inhalants regularly ^c	90.6	90.0	88.9	88.1	88.8	89.3	90.3	89.5	90.3	+0.8	91.0	91.5	90.9	91.0	90.9	91.7	91.7	91.1	92.4	+1.2s	—	—	—	—	—	—	—	—	—	—
Try LSD once or twice ^d	—	—	77.1	75.2	71.6	70.9	72.1	69.1	69.4	+0.3	—	—	82.1	79.3	77.9	76.8	76.6	76.7	77.8	+1.1	90.1	88.1	85.9	82.5	81.1	79.6	80.5	82.1	83.0	+0.9
Take LSD regularly ^d	—	—	79.8	78.4	75.8	75.3	76.3	72.5	72.5	-0.1	—	—	86.8	85.6	84.8	84.5	83.4	82.9	84.3	+1.4	96.4	95.5	95.8	94.3	92.5	93.2	92.9	93.5	94.3	+0.8
Try crack once or twice ^e	91.7	90.7	89.1	86.9	85.9	85.0	85.7	85.4	86.0	+0.6	92.5	92.5	91.4	89.9	88.7	88.2	87.4	87.1	87.8	+0.8	92.1	93.1	89.9	89.5	91.4	87.4	87.0	86.7	87.6	+0.9
Take crack occasionally ^e	93.3	92.5	91.7	89.9	89.8	89.3	90.3	89.5	89.9	+0.4	94.3	94.4	93.6	92.5	91.7	91.9	91.0	90.6	91.5	+0.8	94.2	95.0	92.8	92.8	94.0	91.2	91.3	90.9	92.3	+1.4
Try cocaine powder once or twice ^e	91.2	89.6	88.5	86.1	85.3	83.9	85.1	84.5	85.2	+0.7	90.8	91.1	90.0	88.1	86.8	86.1	85.1	84.9	86.0	+1.1	88.0	89.4	86.6	87.1	88.3	83.1	83.0	83.1	84.3	+1.2
Take cocaine powder occasionally ^e	93.1	92.4	91.6	89.7	89.7	88.7	90.1	89.3	89.9	+0.5	94.0	94.0	93.2	92.1	91.4	91.1	90.4	89.7	90.7	+1.0	93.0	93.4	91.2	91.0	92.7	89.7	89.3	88.7	90.0	+1.3
Try heroin once or twice without using a needle ^d	—	—	—	—	85.8	85.0	87.7	87.3	88.0	+0.6	—	—	—	—	89.7	89.5	89.1	88.6	90.1	+1.4	—	—	—	—	92.9	90.8	92.3	93.0	92.6	-0.4
Take heroin occasionally without using a needle ^d	—	—	—	—	88.5	87.7	90.1	89.7	90.2	+0.6	—	—	—	—	91.6	91.7	91.4	90.5	91.8	+1.3	—	—	—	—	94.7	93.2	94.4	94.3	93.8	-0.5
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	48.3	+0.9	37.6	39.9	38.5	36.5	36.1	34.2	33.7	34.7	35.1	+0.3	29.8	33.0	30.1	28.4	27.3	26.5	26.1	24.5	24.6	+0.1
Take one or two drinks nearly every day	82.2	81.0	79.6	76.7	75.9	74.1	76.6	76.9	77.0	+0.1	81.7	81.7	78.6	75.2	75.4	73.8	75.4	74.6	75.4	+0.8	76.5	75.9	77.8	73.1	73.3	70.8	70.0	69.4	67.2	-2.2
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	80.3	-0.7	76.7	77.6	74.7	72.3	72.2	70.7	70.2	70.5	69.9	-0.6	67.4	70.7	70.1	65.1	66.7	64.7	65.0	63.8	62.7	-1.1
Smoke one or more packs of cigarettes per day ^e	82.8	82.3	80.6	78.4	78.6	77.3	80.3	80.0	81.4	+1.4	79.4	77.8	76.5	73.9	73.2	71.6	73.8	75.3	76.1	+0.8	71.4	73.5	70.6	69.8	68.2	67.2	67.1	68.8	69.5	+0.7
Use smokeless tobacco regularly	79.1	77.2	77.1	75.1	74.0	74.1	76.5	76.3	78.0	+1.8s	75.4	74.6	73.8	71.2	71.0	71.0	72.3	73.2	75.1	+1.8s	—	—	—	—	—	—	—	—	—	—
Take steroids ^f	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	88.9	-1.9
<i>Approx. N (in thousands) =</i>	17.4	18.5	18.4	17.4	17.6	18.0	18.8	18.1	16.7		14.8	14.8	15.3	15.9	17.0	15.7	15.6	15.0	13.6		2.5	2.6	2.7	2.6	2.6	2.4	2.6	2.5	2.3	

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.

^aAnswer alternatives were: (1) Don't disapprove, (2) Disapprove, and (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.

^bThe twelfth grade questions ask about people who are 18 or older.

^c8th and 10th grade: Beginning in 1997, data based on two-thirds of N indicated due to changes in questionnaire forms.

^d8th 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.

^e8th and 10th grade: Beginning in 1999, data based on two-thirds of N indicated due to changes in questionnaire forms.

^f8th 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? ^a	Percentage "disapproving" ^b																									'98-'99 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	Class of 1999	
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	48.8	-2.8
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	62.5	-2.0
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	78.6	-2.6
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	83.0	+0.9
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	94.3	+0.8
Try MDMA once or twice	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.2	82.5	82.1	-0.4
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	89.1	-0.4
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	94.9	-0.6
Try crack once or twice	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	92.3	92.1	93.1	89.9	89.5	91.4	87.4	87.0	86.7	87.6	+0.9
Take crack occasionally	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	94.3	94.2	95.0	92.8	92.8	94.0	91.2	91.3	90.9	92.3	+1.4
Take crack regularly	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	94.9	95.0	95.5	93.4	93.1	94.1	93.0	92.3	91.9	93.2	+1.3
Try cocaine powder once or twice	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	87.9	88.0	89.4	86.6	87.1	88.3	83.1	83.0	83.1	84.3	+1.2
Take cocaine powder occasionally	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	92.1	93.0	93.4	91.2	91.0	92.7	89.7	89.3	88.7	90.0	+1.3
Take cocaine powder regularly	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	93.7	94.4	94.3	93.0	92.5	93.8	92.9	91.5	91.1	92.3	+1.2
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	93.5	-0.2
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	95.7	-0.4
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	96.4	-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	81.9	-0.6
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	93.7	-0.2
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	86.6	+0.6
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	94.7	+0.1
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	24.6	+0.1
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	67.2	-2.2
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	86.9	+0.2
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	62.7	-1.1
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	69.5	+0.7
Take steroids	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	90.8	90.5	92.1	92.1	91.9	91.0	91.7	91.4	90.8	88.9	-1.9

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 2310

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.

^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.

TABLE 10

Trends in Perceived Availability of Drugs by Eighth, Tenth, and Twelfth Graders, 1992-99

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 ^a																											
	8th Grade								10th Grade								12th Grade											
	1992	1993	1994	1995	1996	1997	1998	1999	'98-'99 change	1992	1993	1994	1995	1996	1997	1998	1999	'98-'99 change	1992	1993	1994	1995	1996	1997	1998	1999	'98-'99 change	
Marijuana	42.3	43.8	49.9	52.4	54.8	54.2	50.6	48.4	-2.2s	65.2	68.4	75.0	78.1	81.1	80.5	77.9	78.2	+0.3	82.7	83.0	85.5	88.5	88.7	89.6	90.4	88.9	-1.5	
LSD	21.5	21.8	21.8	23.5	23.6	22.7	19.3	18.3	-1.0	33.6	35.8	36.1	39.8	41.0	38.3	34.0	34.3	+0.2	44.5	49.2	50.8	53.8	51.3	50.7	48.8	44.7	-4.1s	
PCP ^b	18.0	18.5	17.7	19.0	19.6	19.2	17.5	17.1	-0.4	23.7	23.4	23.8	24.7	26.8	24.8	23.9	24.5	+0.6	31.7	31.7	31.4	31.0	30.5	30.0	30.7	26.7	-4.0s	
Crack	25.6	25.9	26.9	28.7	27.9	27.5	26.5	25.9	-0.7	33.7	33.0	34.2	34.6	36.4	36.0	36.3	36.5	+0.2	43.5	43.6	40.5	41.9	40.7	40.6	43.8	41.1	-2.7	
Cocaine powder	25.7	25.9	26.4	27.8	27.2	26.9	25.7	25.0	-0.7	35.0	34.1	34.5	35.3	36.9	37.1	36.8	36.7	-0.2	48.0	45.4	43.7	43.8	44.4	43.3	45.7	43.7	-2.0	
Heroin	19.7	19.8	19.4	21.1	20.6	19.8	18.0	17.5	-0.5	24.3	24.3	24.7	24.6	24.8	24.4	23.0	23.7	+0.8	34.9	33.7	34.1	35.1	32.2	33.8	35.6	32.1	-3.5s	
Other narcotics ^b	19.8	19.0	18.3	20.3	20.0	20.6	17.1	16.2	-0.9	26.9	24.9	26.9	27.8	29.4	29.0	26.1	26.6	+0.5	37.1	37.5	38.0	39.8	40.0	38.9	42.8	40.8	-2.0	
Amphetamines	32.2	31.4	31.0	33.4	32.6	30.6	27.3	25.9	-1.5	43.4	46.4	46.6	47.7	47.2	44.6	41.0	41.3	+0.3	58.8	61.5	62.0	62.8	59.4	59.8	60.8	58.1	-2.7	
Crystal meth. (ice) ^b	16.0	15.1	14.1	16.0	16.3	15.7	16.0	14.7	-1.3	18.8	16.4	17.8	20.7	22.6	22.9	22.1	21.8	-0.3	26.0	26.6	25.6	27.0	26.9	27.6	29.8	27.6	-2.2	
Barbiturates	27.4	26.1	25.3	26.5	25.6	24.4	21.1	20.8	-0.3	38.0	38.8	38.3	38.8	38.1	35.6	32.7	33.2	+0.5	44.0	44.5	43.3	42.3	41.4	40.0	40.7	37.9	-2.8	
Tranquilizers	22.9	21.4	20.4	21.3	20.4	19.6	18.1	17.3	-0.7	31.6	30.5	29.8	30.6	30.3	28.7	26.5	26.8	+0.3	40.9	41.1	39.2	37.8	36.0	35.4	36.2	32.7	-3.6s	
Alcohol	76.2	73.9	74.5	74.9	75.3	74.9	73.1	72.3	-0.8	88.6	88.9	89.8	89.7	90.4	89.0	88.0	88.2	+0.2	—	—	—	—	—	—	—	—	—	
Cigarettes	77.8	75.5	76.1	76.4	76.9	76.0	73.6	71.5	-2.1ss	89.1	89.4	90.3	90.7	91.3	89.6	88.1	88.3	+0.2	—	—	—	—	—	—	—	—	—	
Steroids	24.0	22.7	23.1	23.8	24.1	23.6	22.3	22.6	+0.3	37.6	33.6	33.6	34.8	34.8	34.2	33.0	35.9	+2.9ss	46.8	44.8	42.9	45.5	40.3	41.7	44.5	44.6	+0.1	
	Approx. N = 8355 16775 16119 15496 16318 16482 16208 15397										7014 14652 15192 16209 14887 14856 14423 13112										2586 2670 2526 2552 2340 2517 2520 2215							

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.

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

^b8th and 10th grade only: Beginning in 1993, data based on one of two forms; N is one-half of N indicated.

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*																								'98-'99 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		Class of 1999
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	88.9	-1.5
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	21.4	-3.7s
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	44.7	-4.1s
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	29.5	-5.7sss
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	26.7	-4.0s
MDMA (Ecstasy)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.7	22.0	22.1	24.2	28.1	31.2	34.2	36.9	38.8	38.2	40.1	+1.9
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	47.6	-3.7s
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	41.1	-2.7
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	43.7	-2.1
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	32.1	-3.5s
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	40.8	-2.0
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	58.1	-2.7
Crystal meth. (ice)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24.1	24.3	26.0	26.6	25.6	27.0	26.9	27.6	29.8	27.6	-2.1
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	37.9	-2.8
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	32.7	-3.5s
Steroids	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	46.7	46.8	44.8	42.9	45.5	40.3	41.7	44.5	44.6	+0.1
	Approx. N =	2627	2865	3065	3598	3172	3240	3578	3602	3385	3269	3274	3077	3271	3231	2806	2549	2476	2586	2670	2526	2552	2340	2517	2520	2215

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) 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

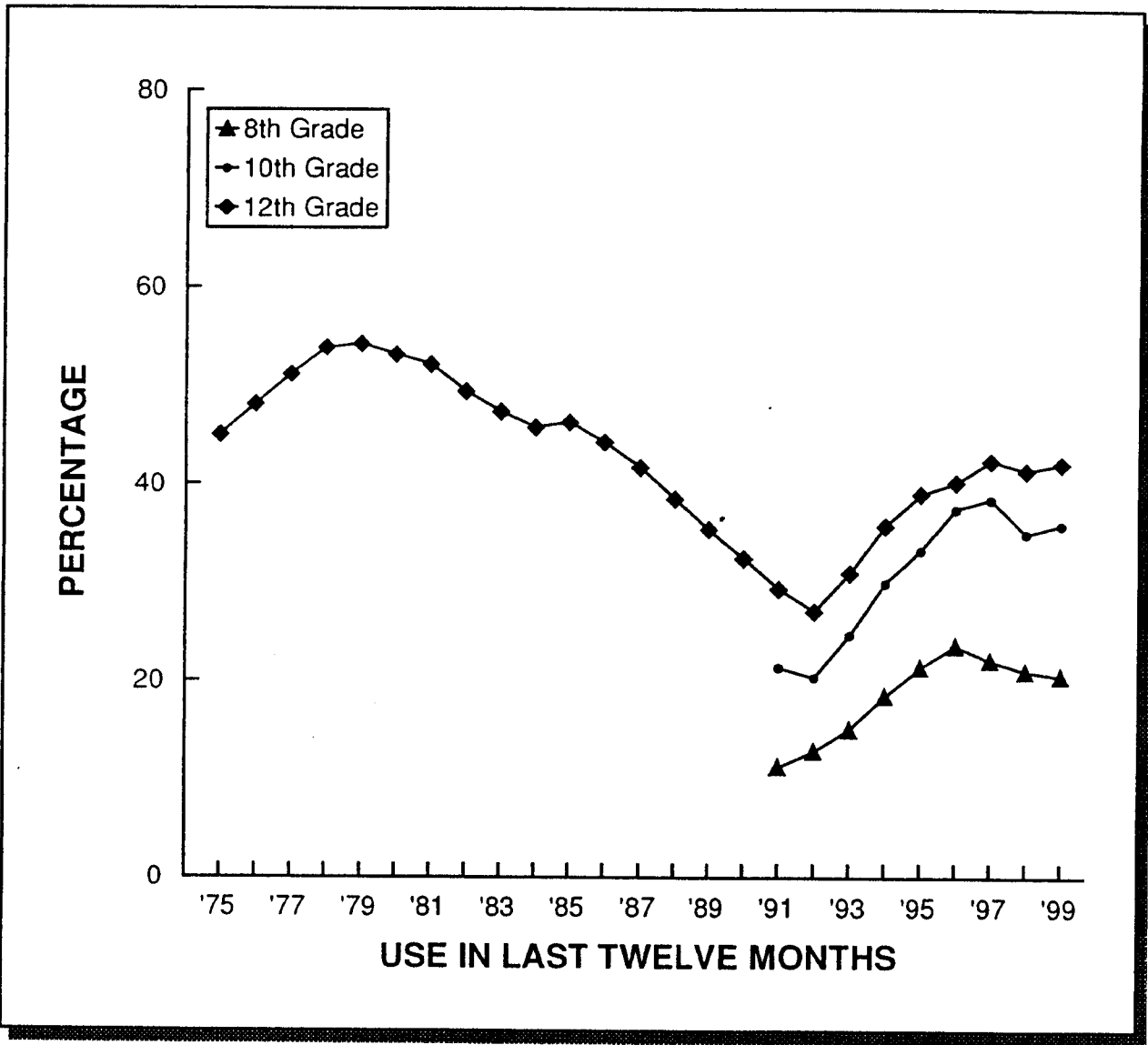


FIGURE 2
Marijuana: Trends in Annual Prevalence, Perceived Risk, and Disapproval

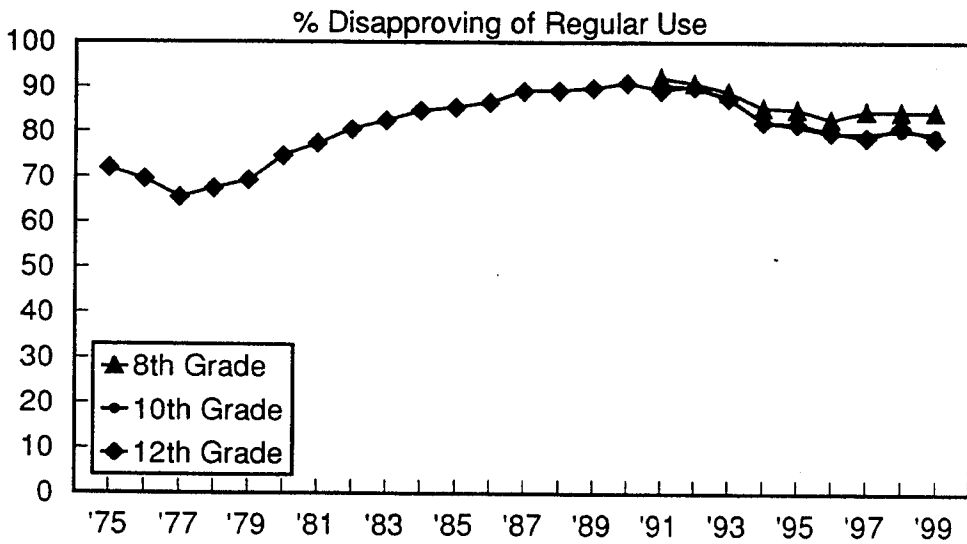
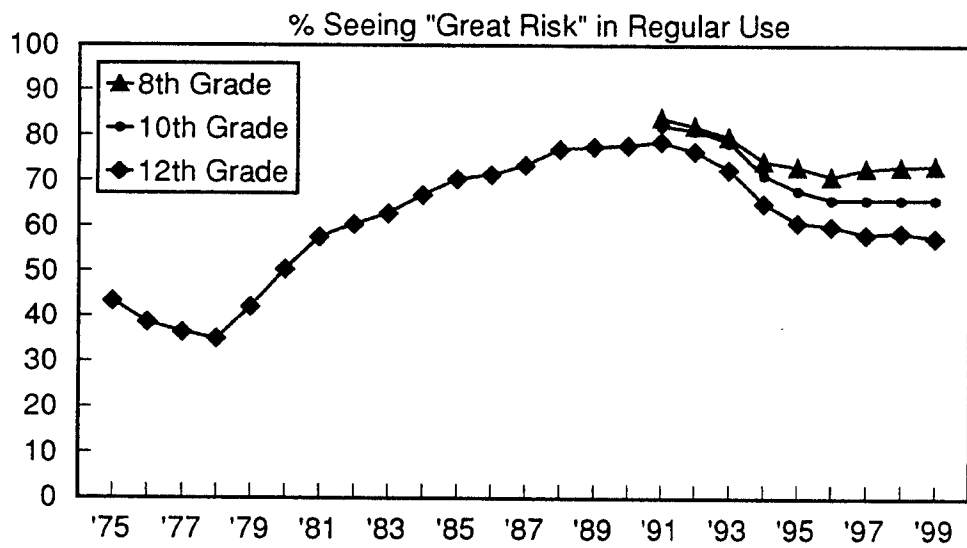
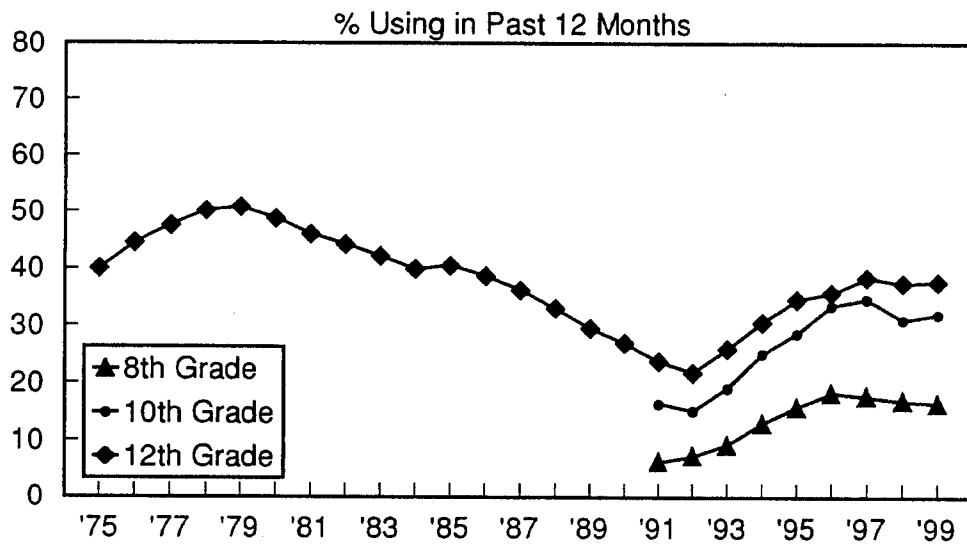
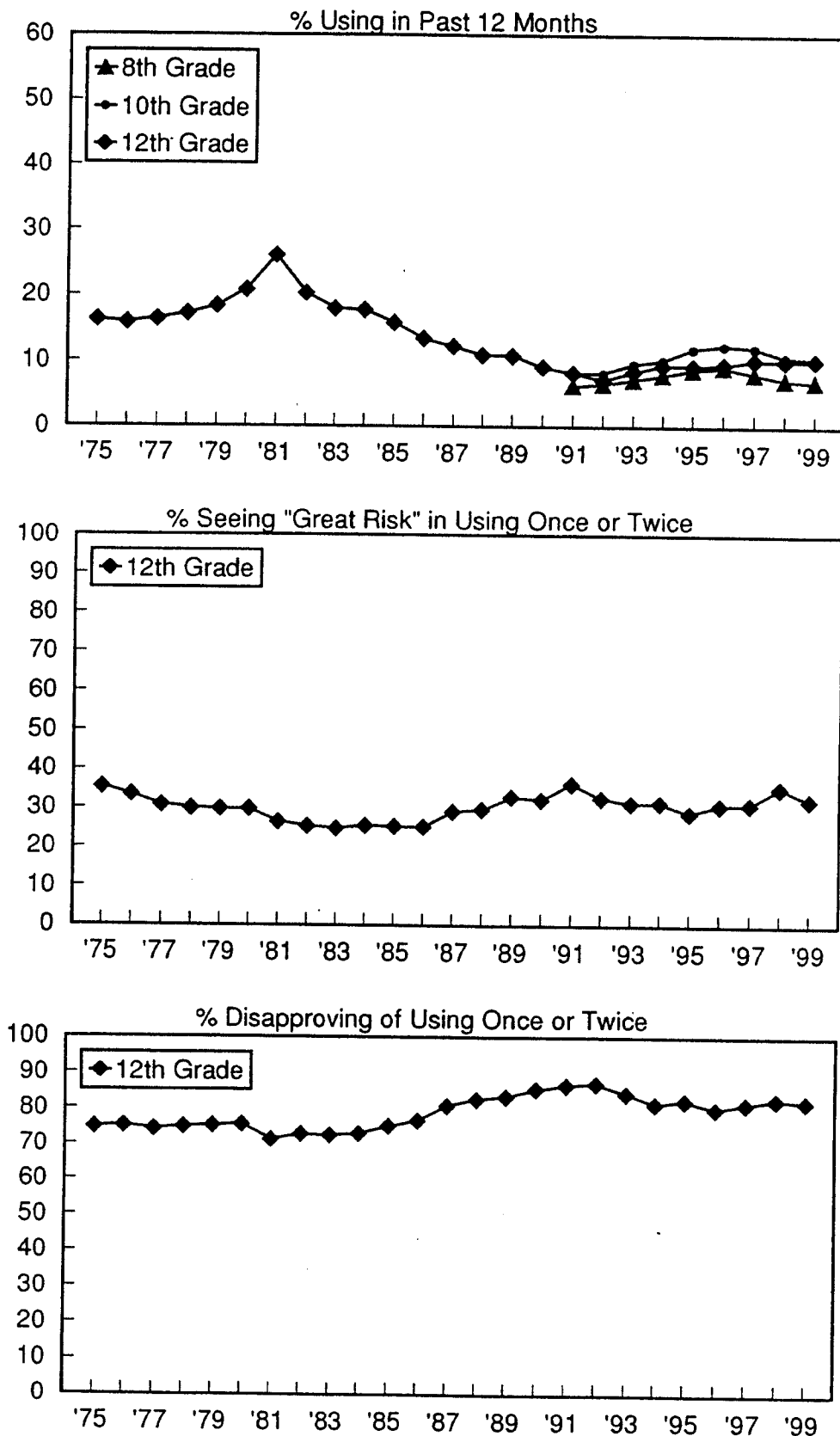


FIGURE 3
Amphetamines: Trends in Annual Prevalence,
Perceived Risk, and Disapproval



*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 dropped slightly as a result of this methodological change.

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

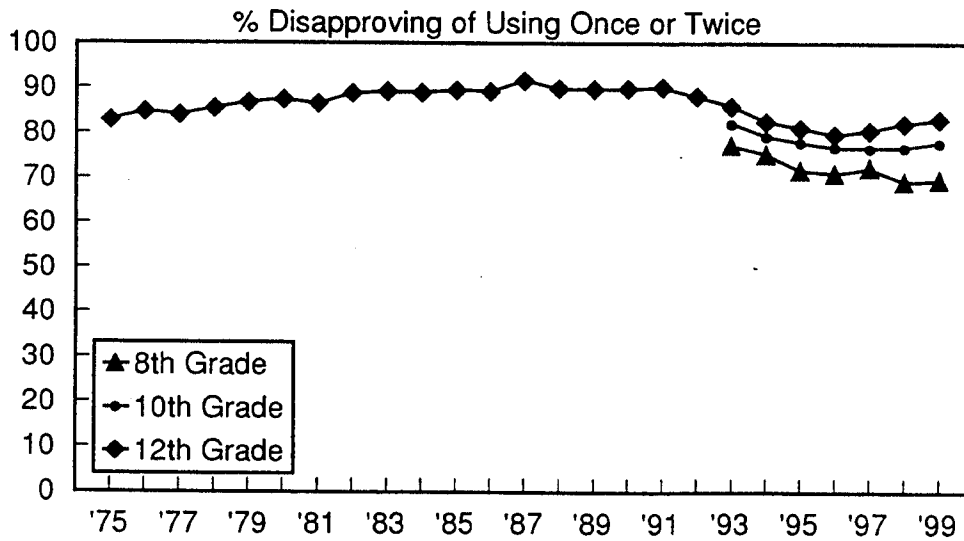
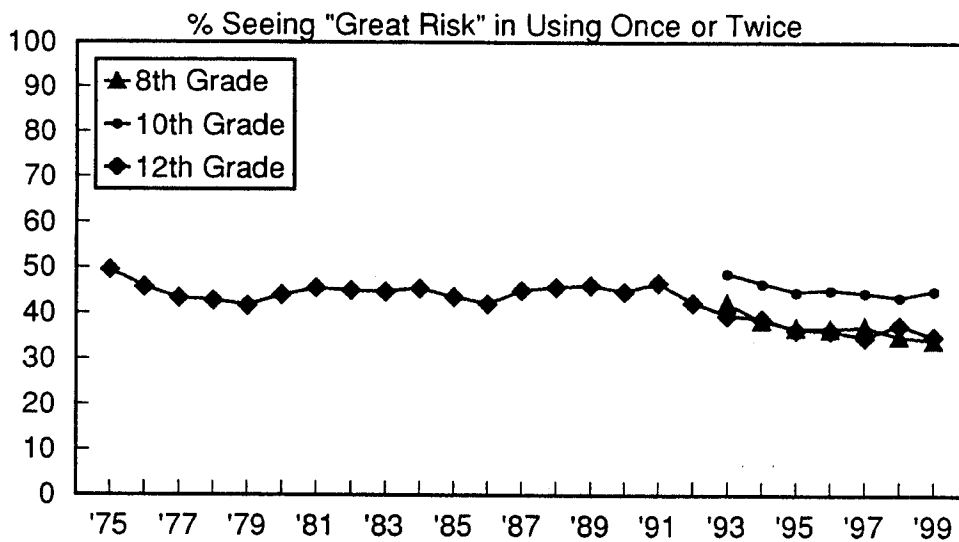
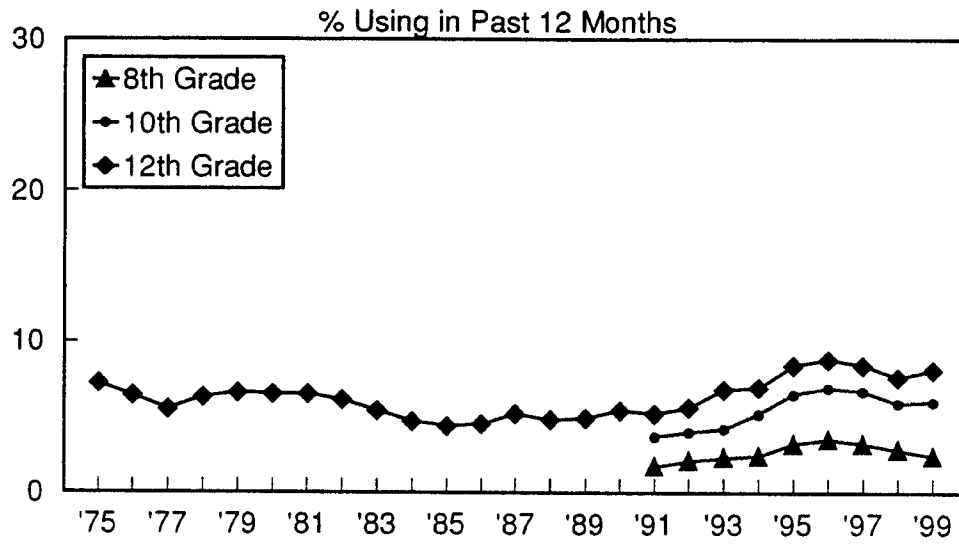


FIGURE 5
Inhalants: Trends in Annual Prevalence, Perceived Risk, and Disapproval

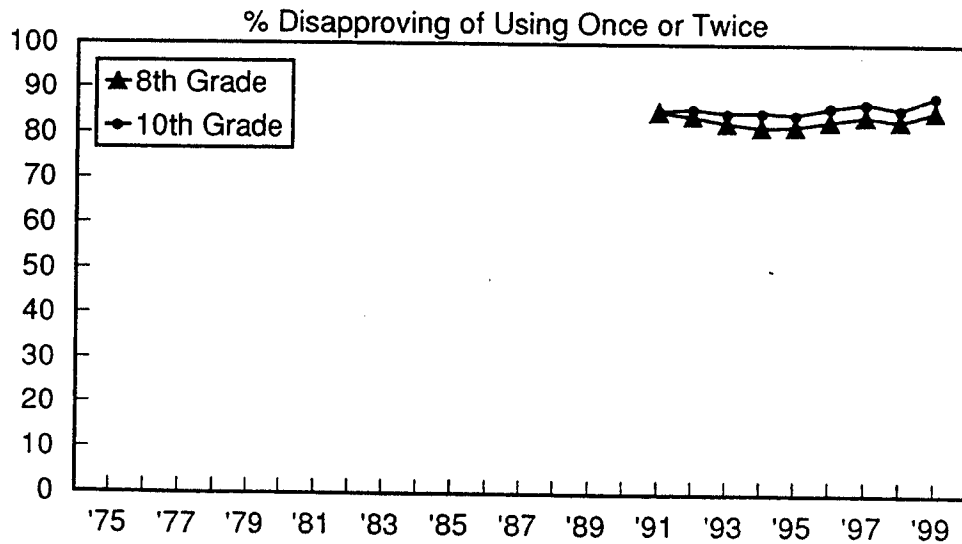
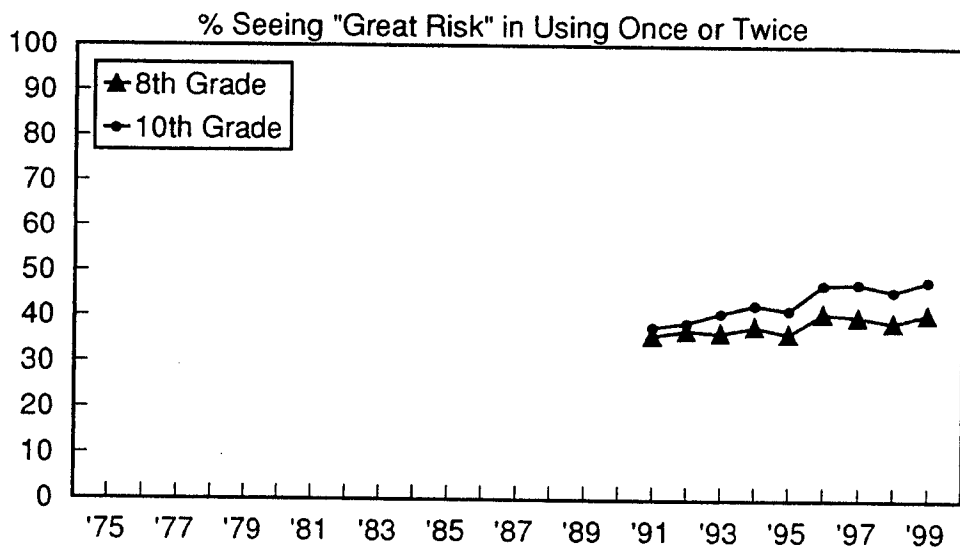
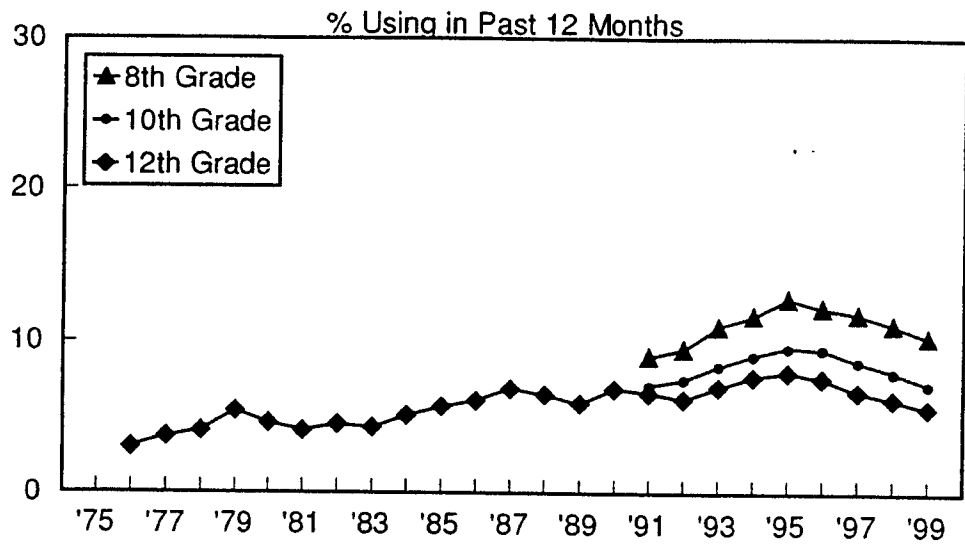


FIGURE 6
Heroin: Trends in Annual Prevalence, Perceived Risk,
and Disapproval

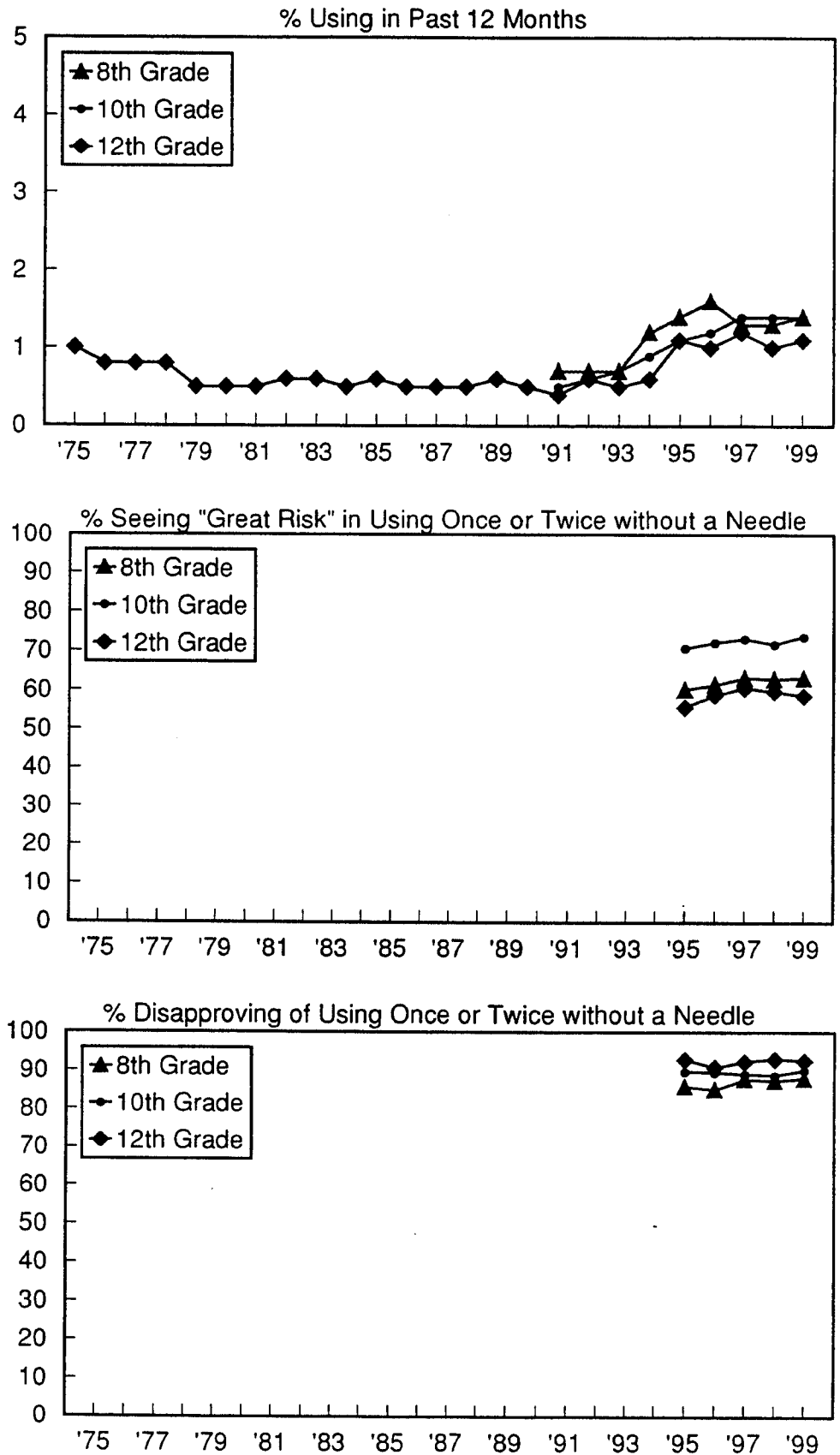


FIGURE 7
Cocaine: Trends in Annual Prevalence, Perceived Risk,
and Disapproval

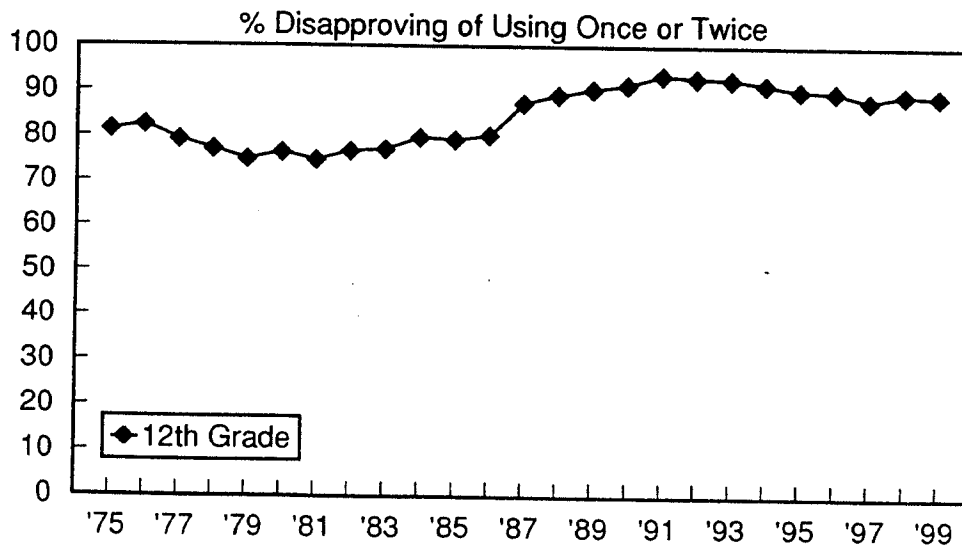
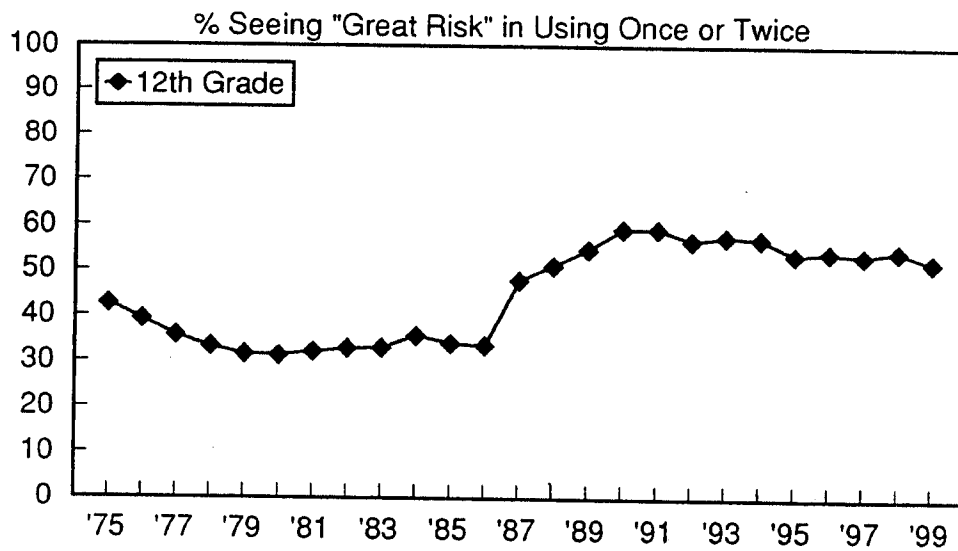
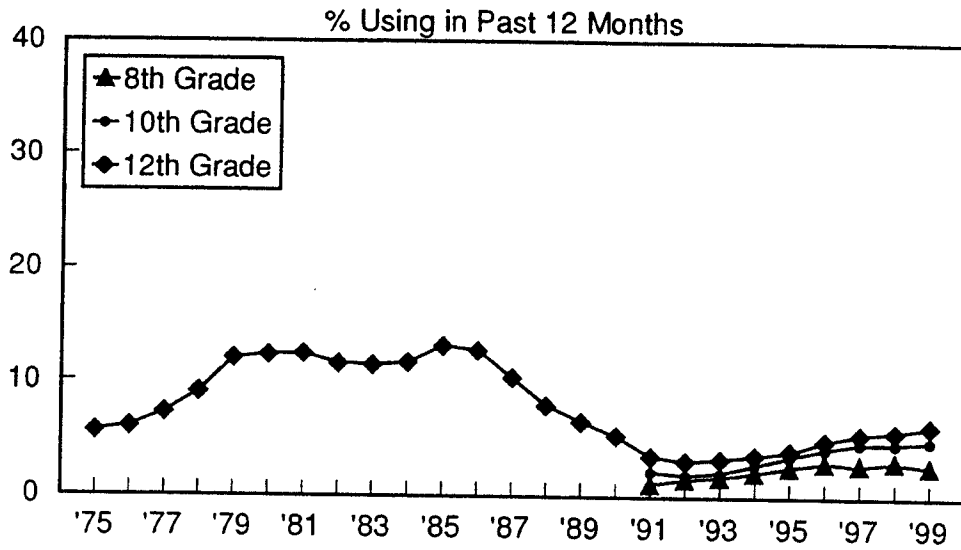


FIGURE 8
Cocaine Powder: Trends in Annual Prevalence,
Perceived Risk, and Disapproval

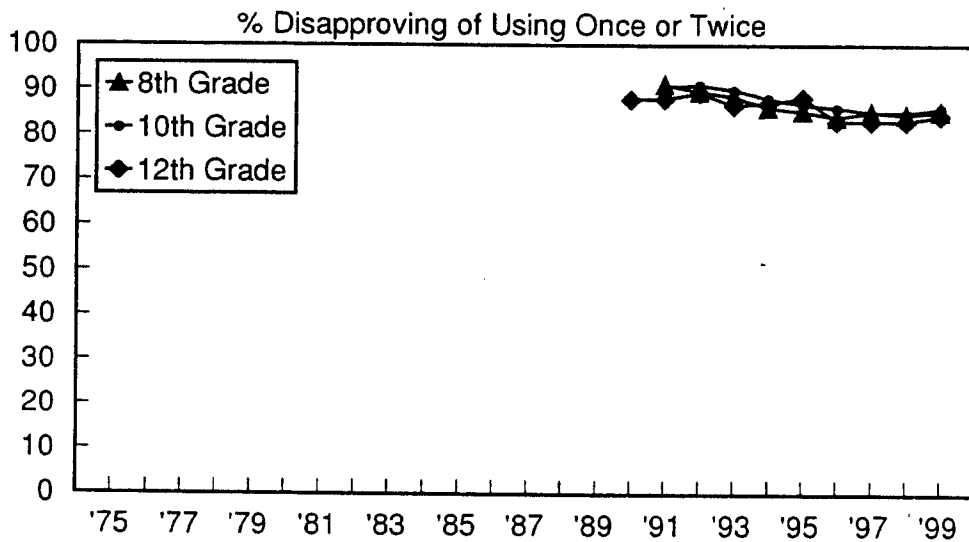
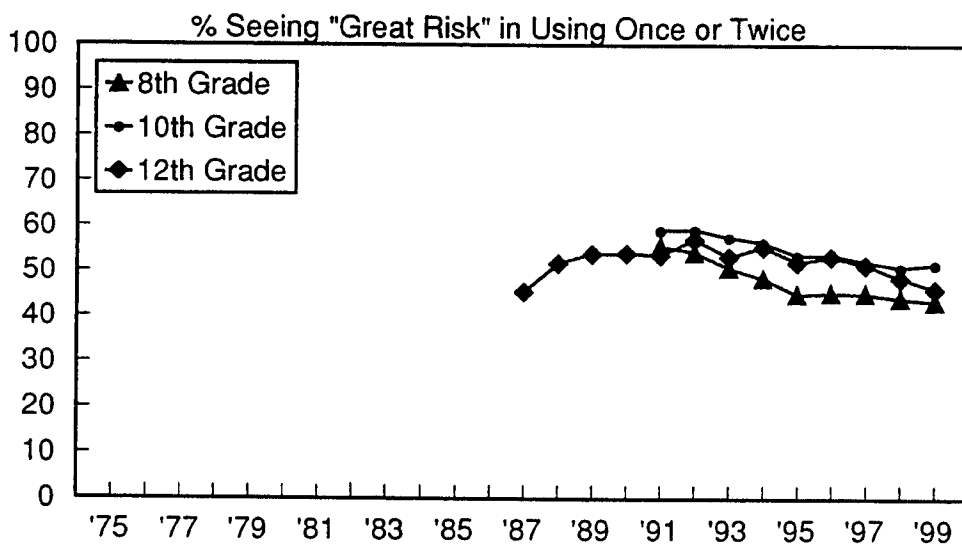
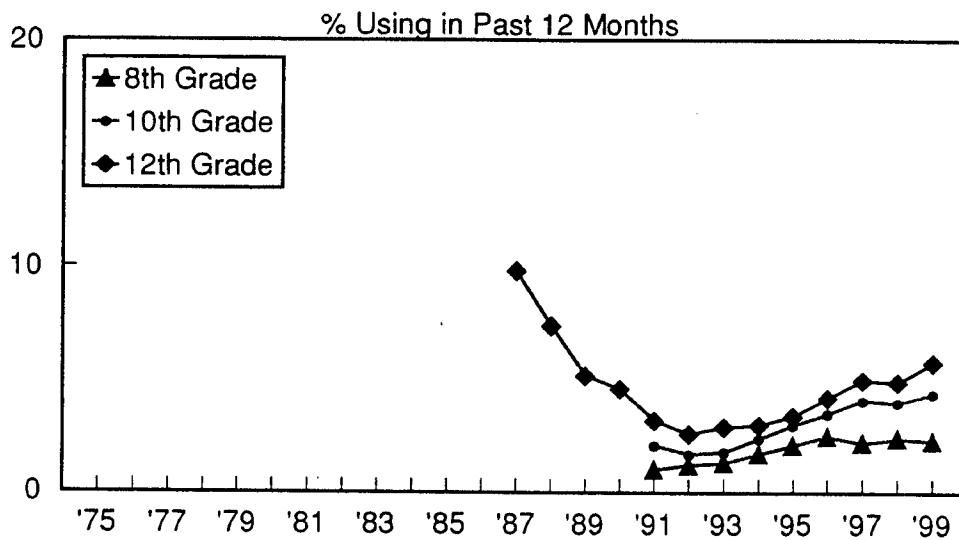


FIGURE 9
Crack: Trends in Annual Prevalence, Perceived Risk, and Disapproval

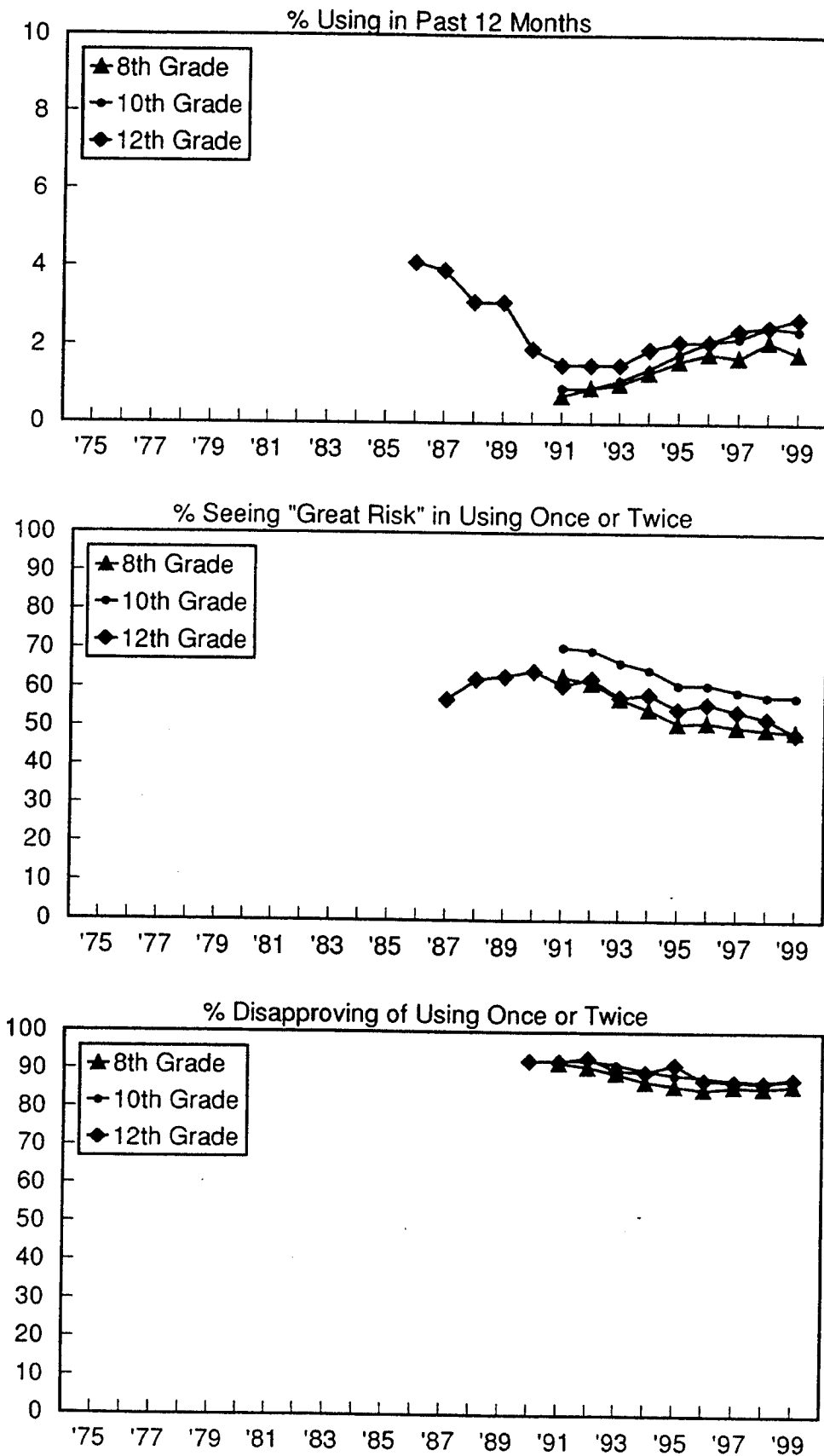


FIGURE 10
Alcohol: Trends in Two-Week Prevalence of Heavy Drinking, Perceived Risk, and Disapproval

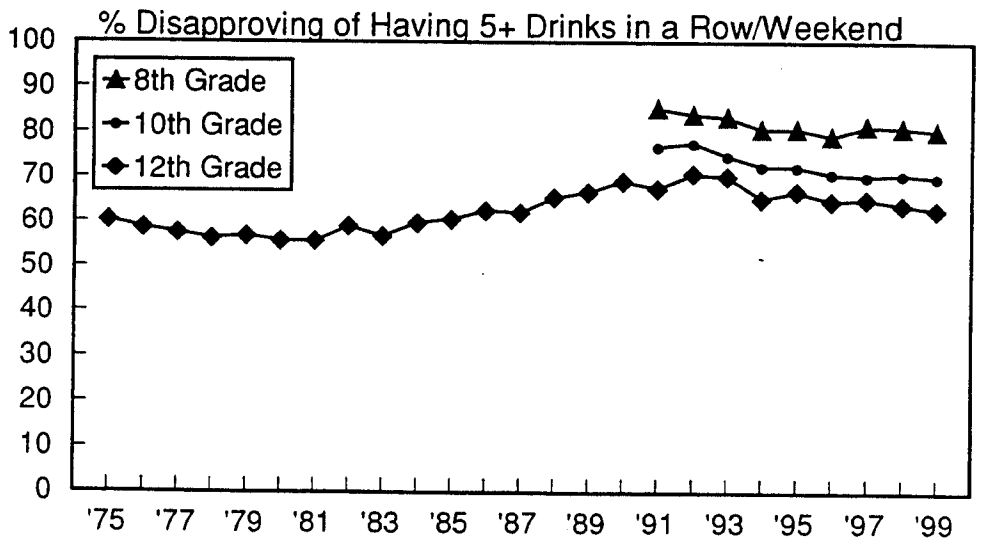
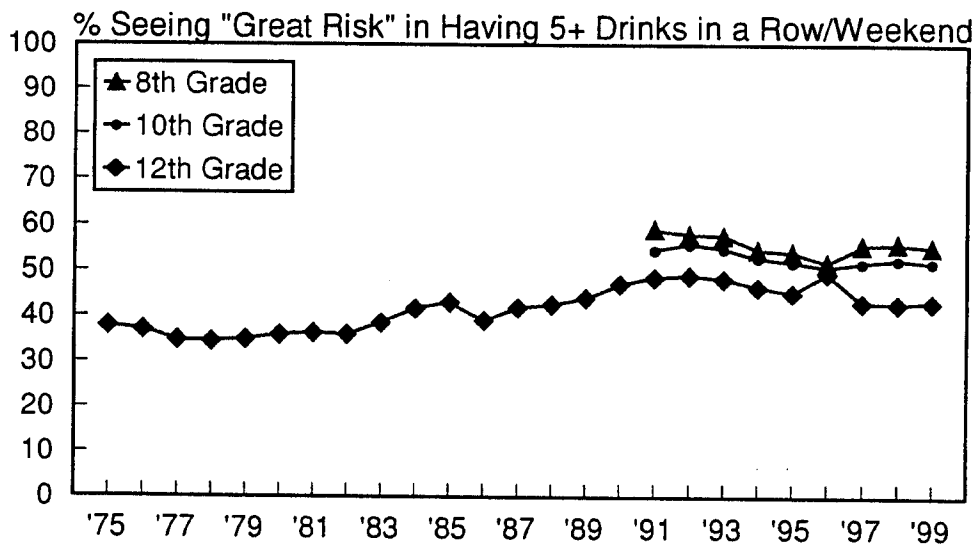
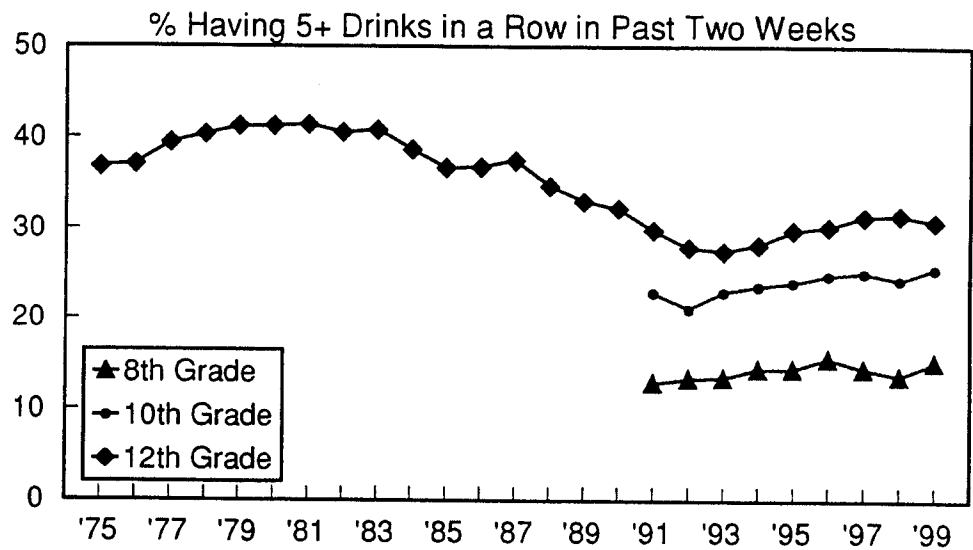


FIGURE 11

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

