

# monitoring the future occasional paper series 

Paper 86<br>\section*{DEMOGRAPHIC SUBGROUP TRENDS AMONG ADOLESCENTS} IN THE USE OF VARIOUS LICIT AND ILLICIT DRUGS<br>1975-2015<br>Lloyd D. Johnston<br>Patrick M. O’Malley<br>Richard A. Miech<br>Jerald G. Bachman<br>John E. Schulenberg<br>Institute for Social Research<br>The University of Michigan<br>Ann Arbor, Michigan

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The mailing address of Monitoring the Future is Institute for Social Research, The University of Michigan, P.O. Box 1248, Ann Arbor, MI 48106.

# Demographic Subgroup Trends among Adolescents In the Use of Various Licit and Illicit Drugs 1975-2015 

## Monitoring the Future Occasional Paper 86

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## Drugs

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Any Illicit Drug other than Marijuana Marijuana

Synthetic Marijuana
Inhalants
Hallucinogens
LSD
Hallucinogens other than LSD
Ecstasy (MDMA)
Salvia
Cocaine
Crack
Other Cocaine
Heroin
Heroin with a Needle
Heroin without a Needle
Narcotics other than Heroin
OxyContin
Vicodin
Amphetamines/Stimulants
Ritalin
Adderall
Provigil
Methamphetamine
Crystal Methamphetamine (Ice)
Bath Salts (Synthetic Stimulants)
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This occasional paper presents national demographic subgroup data for the 1975-2015 Monitoring the Future (MTF) national survey results on 8th, 10th, and 12th graders' use of drugs, alcohol, and tobacco. MTF is funded by the National Institute on Drug Abuse at the National Institutes of Health under a series of investigator-initiated, competitive research grants to the University of Michigan. The study covers all major classes of illicit and licit psychoactive drugs for an array of population subgroups. The 2015 subgroup data presented here accompany the Monitoring the Future National Survey Results on Drug Use: 1975-2015: Overview, Key Findings on Adolescent Drug Use ${ }^{1}$ and the Monitoring the Future National Survey Results on Drug Use, 1975-2015: Volume I, Secondary School Students (Volume I, forthcoming). ${ }^{2}$ Prior to 2014 subgroup data were available in tabular form only in Appendices B and D of the relevant year's Volume I. Since 2014, the MTF subgroup definitions and data have been presented in a series of occasional paper, such as this, in both tables and figures to facilitate the examination and interpretation of trend data.

Volume I contains a description of MTF's design and purposes, as well as extended reporting on substance use of all kinds-licit and illicit-and a number of related factors, such as attitudes and beliefs about drugs, age of initiation, noncontinuation of drug use, perceived availability, relevant conditions in the social environment, history of daily marijuana use, use of drugs for the treatment of ADHD, and sources of prescription drugs used outside of medical supervision. ${ }^{3}$

The trends offered here in tabular and graphic forms cover demographic subgroups based on:

- Gender
- College plans
- Region of the country
- Population density
- Education level of the parents (a proxy for socioeconomic level)
- Racial/ethnic identification

Detailed descriptions of the demographic categories are provided in the section starting on page 367 of this paper.

The graphs and tables in this occasional paper present trend data for 8th-, 10th-, and 12th-grade respondents separately. Data for 12th grade begins with 1975, the first year in which a nationally representative sample of high school seniors was surveyed. Data for 8th and 10th grades begin with 1991, when the study's nationally representative annual surveys were expanded to include those grade levels.

[^0]FIGURE 1
Any Illicit Drug:* Trends in Annual Prevalence by Gender


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2013, a revised set of questions on amphetamine use were introduced. Data for any illicit drug are affected by these changes.

FIGURE 2
Any Illicit Drug:* Trends in Annual Prevalence by College Plans


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2013, a revised set of questions on amphetamine use were introduced. Data for any illicit drug are affected by these changes.

FIGURE 3
Any Illicit Drug:* Trends in Annual Prevalence by Region


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2013, a revised set of questions on amphetamine use were introduced. Data for any illicit drug are affected by these changes.

FIGURE 4
Any Illicit Drug:* Trends in Annual Prevalence by Population Density


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2013, a revised set of questions on amphetamine use were introduced. Data for any illicit drug are affected by these changes.

FIGURE 5
Any Illicit Drug:* Trends in Annual Prevalence by Average Education Level of Parents**


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2013, a revised set of questions on amphetamine use were introduced. Data for any illicit drug are affected by these changes.
${ }^{* *}$ Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 6
Any Illicit Drug*: Trends in Annual Prevalence by Race/Ethnicity**


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2013, a revised set of questions on amphetamine use were introduced. Data for any illicit drug are affected by these changes.
**To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

## FIGURE 7

Any Illicit Drug other than Marijuana:* Trends in Annual Prevalence by Gender


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Beginning in 2013, a revised set of questions on amphetamines were introduced. Data for any illicit drug other than marijuana are affected by these changes.

FIGURE 8
Any Illicit Drug other than Marijuana:* Trends in Annual Prevalence by College Plans


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Beginning in 2013, a revised set of questions on amphetamines were introduced. Data for any illicit drug other than marijuana are affected by these changes.

FIGURE 9
Any Illicit Drug other than Marijuana:* Trends in Annual Prevalence by Region


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Beginning in 2013, a revised set of questions on amphetamines were introduced. Data for any illicit drug other than marijuana are affected by these changes.

FIGURE 10
Any Illicit Drug other than Marijuana:* Trends in Annual Prevalence by Population Density


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Beginning in 2013, a revised set of questions on amphetamines were introduced. Data for any illicit drug other than marijuana are affected by these changes.

## FIGURE 11

Any Illicit Drug other than Marijuana:* Trends in Annual Prevalence by Average Education Level of Parents**


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Beginning in 2013, a revised set of questions on amphetamines were introduced. Data for any illicit drug other than marijuana are affected by these changes.
**Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 12
Any Illicit Drug other than Marijuana:* Trends in Annual Prevalence by Race/Ethnicity**


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Beginning in 2013, a revised set of
questions on amphetamines were introduced. Data for any illicit drug other than marijuana are affected by these changes.
**To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

## FIGURE 13

Marijuana: Trends in Lifetime Prevalence by Gender


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

FIGURE 14
Marijuana: Trends in Lifetime Prevalence by College Plans


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

FIGURE 15
Marijuana: Trends in Lifetime Prevalence by Region


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

FIGURE 16
Marijuana: Trends in Lifetime Prevalence by Population Density


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

FIGURE 17
Marijuana: Trends in Lifetime Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

## FIGURE 18

## Marijuana: Trends in Lifetime Prevalence by Race/Ethnicity*



Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 19
Marijuana: Trends in Annual Prevalence by Gender


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

FIGURE 20
Marijuana: Trends in Annual Prevalence by College Plans


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

## FIGURE 21

Marijuana: Trends in Annual Prevalence by Region


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

FIGURE 22
Marijuana: Trends in Annual Prevalence by Population Density


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

## FIGURE 23

Marijuana: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 24
Marijuana: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

## FIGURE 25

Marijuana: Trends in 30-Day Prevalence by Gender


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

FIGURE 26
Marijuana: Trends in 30-Day Prevalence by College Plans


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

FIGURE 27
Marijuana: Trends in 30-Day Prevalence by Region


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

## FIGURE 28

## Marijuana: Trends in 30-Day Prevalence by Population Density



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

## FIGURE 29

Marijuana: Trends in 30-Day Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

## FIGURE 30

Marijuana: Trends in 30-Day Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

## FIGURE 31

Marijuana: Trends in 30-Day Prevalence of Daily Use by Gender


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

FIGURE 32
Marijuana: Trends in 30-Day Prevalence of Daily Use by College Plans


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

FIGURE 33
Marijuana: Trends in 30-Day Prevalence of Daily Use by Region


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

FIGURE 34
Marijuana: Trends in 30-Day Prevalence of Daily Use by Population Density


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

FIGURE 35
Marijuana: Trends 30-Day Prevalence of Daily Use by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

## FIGURE 36

Marijuana: Trends in 30-Day Prevalence of Daily Use by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 37
Synthetic Marijuana: Trends in Annual Prevalence by Gender


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

FIGURE 38
Synthetic Marijuana: Trends in Annual Prevalence by College Plans


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

FIGURE 39
Synthetic Marijuana: Trends in Annual Prevalence by Region


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

FIGURE 40
Synthetic Marijuana: Trends in Annual Prevalence by Population Density


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

## FIGURE 41

Synthetic Marijuana: Trends Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

## FIGURE 42

Synthetic Marijuana: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

## FIGURE 43

Inhalants: Trends in Annual Prevalence by Gender


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

FIGURE 44
Inhalants: Trends in Annual Prevalence by College Plans


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

## FIGURE 45

Inhalants: Trends in Annual Prevalence by Region


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

FIGURE 46
Inhalants: Trends in Annual Prevalence by Population Density


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

FIGURE 47
Inhalants: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 48
Inhalants: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 49
Hallucinogens:* Trends in Annual Prevalence by Gender


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Data for hallucinogens are affected by these changes.
Refer to corresponding tables for further details.

## FIGURE 50

Hallucinogens:* Trends in Annual Prevalence by College Plans


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Data for hallucinogens are affected by these changes.
Refer to corresponding tables for further details.

## FIGURE 51

Hallucinogens:* Trends in Annual Prevalence by Region


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Data for hallucinogens are affected by these changes.
Refer to corresponding tables for further details.

## FIGURE 52

Hallucinogens:* Trends in Annual Prevalence by Population Density


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Data for hallucinogens are affected by these changes.
Refer to corresponding tables for further details.

## FIGURE 53

Hallucinogens:* Trends in Annual Prevalence by Average Education Level of Parents**


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Data for hallucinogens are affected by these changes.
Refer to corresponding tables for further details.
**Parental education is an average score of mother's education and father's education. See appendix B for details.

## FIGURE 54

Hallucinogens:* Trends in Annual Prevalence by Race/Ethnicity**


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Data for hallucinogens are affected by these changes.
Refer to corresponding tables for further details.
${ }^{* *}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

## FIGURE 55

LSD: Trends in Annual Prevalence by Gender


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

## FIGURE 56

LSD: Trends in Annual Prevalence by College Plans


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

FIGURE 57
LSD: Trends in Annual Prevalence by Region


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

## FIGURE 58

LSD: Trends in Annual Prevalence by Population Density


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

## FIGURE 59

LSD: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 60
LSD: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 61
Hallucinogens other than LSD:* Trends in Annual Prevalence by Gender


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Refer to corresponding tables for further details.

## FIGURE 62

Hallucinogens other than LSD:* Trends in Annual Prevalence by College Plans


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Refer to corresponding tables for further details.

FIGURE 63
Hallucinogens other than LSD:* Trends in Annual Prevalence by Region


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Refer to corresponding tables for further details.

## FIGURE 64

Hallucinogens other than LSD:* Trends in Annual Prevalence by Population Density


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Refer to corresponding tables for further details.

## FIGURE 65

Hallucinogens other than LSD:* Trends in Annual Prevalence by Average Education Level of Parents**


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Refer to corresponding tables for further details.
**Parental education is an average score of mother's education and father's education. See appendix B for details.

## FIGURE 66

Hallucinogens other than LSD:* Trends in Annual Prevalence by Race/Ethnicity**


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Refer to corresponding tables for further details.
**To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 67
Ecstasy (MDMA)*: Trends in Annual Prevalence by Gender


Source. The Monitoring the Future study, the University of Michigan.
${ }^{*}$ In 2014, the question was changed in some of the questionnaire forms to include molly in the list of examples. In 2015, it was changed in the remaining forms. Data is presented here for both versions of the question.

FIGURE 68
Ecstasy (MDMA)*: Trends in Annual Prevalence by College Plans


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

FIGURE 69
Ecstasy (MDMA)*: Trends in Annual Prevalence by Region


Source. The Monitoring the Future study, the University of Michigan.
*In 2014, the question was changed in some of the questionnaire forms to include molly in the list of examples. In 2015, it was changed in the remaining forms. Data is presented here for both versions of the question.

FIGURE 70
Ecstasy (MDMA)*: Trends in Annual Prevalence by Population Density


Source. The Monitoring the Future study, the University of Michigan.
${ }^{*}$ In 2014, the question was changed in some of the questionnaire forms to include molly in the list of examples. In 2015, it was changed in the remaining forms. Data is presented here for both versions of the question.

## FIGURE 71

Ecstasy (MDMA)*: Trends in Annual Prevalence by Average Education Level of Parents**


Source. The Monitoring the Future study, the University of Michigan.
*In 2014, the question was changed in some of the questionnaire forms to include molly in the list of examples. In 2015, it was changed in the remaining forms. Data is presented here for both versions of the question.
**Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 72
Ecstasy (MDMA)*: Trends in Annual Prevalence by Race/Ethnicity**


Source. The Monitoring the Future study, the University of Michigan.
*In 2014, the question was changed in some of the questionnaire forms to include molly in the list of examples. In 2015, it was changed in
the remaining forms. Data is presented here for both versions of the question.
**To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 73
Salvia: Trends in Annual Prevalence by Gender


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

FIGURE 74
Salvia: Trends in Annual Prevalence by College Plans


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

FIGURE 75
Salvia: Trends in Annual Prevalence by Region


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

FIGURE 76
Salvia: Trends in Annual Prevalence by Population Density


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

FIGURE 77
Salvia: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 78
Salvia: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

## FIGURE 79

Cocaine: Trends in Annual Prevalence by Gender


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

## FIGURE 80

## Cocaine: Trends in Annual Prevalence by College Plans



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

## FIGURE 81

Cocaine: Trends in Annual Prevalence by Region


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

FIGURE 82
Cocaine: Trends in Annual Prevalence by Population Density


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

## FIGURE 83

Cocaine: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 84
Cocaine: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 85
Crack: Trends in Annual Prevalence by Gender


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

FIGURE 86

## Crack: Trends in Annual Prevalence by College Plans



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

## Crack: Trends in Annual Prevalence by Region



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

## FIGURE 88

## Crack: Trends in Annual Prevalence by Population Density



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

FIGURE 89
Crack: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 90
Crack: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 91
Other Cocaine: Trends in Annual Prevalence by Gender


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

FIGURE 92
Other Cocaine: Trends in Annual Prevalence by College Plans


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

FIGURE 93
Other Cocaine: Trends in Annual Prevalence by Region


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

FIGURE 94
Other Cocaine: Trends in Annual Prevalence by Population Density


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

FIGURE 95
Other Cocaine: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 96
Other Cocaine: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

## FIGURE 97

Heroin: Trends in Annual Prevalence by Gender


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

FIGURE 98
Heroin: Trends in Annual Prevalence by College Plans


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

## FIGURE 99

Heroin: Trends in Annual Prevalence by Region


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

FIGURE 100
Heroin: Trends in Annual Prevalence by Population Density


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

FIGURE 101
Heroin: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 102
Heroin: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 103

## Heroin with a Needle: Trends in Annual Prevalence by Gender



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

FIGURE 104
Heroin with a Needle: Trends in Annual Prevalence by College Plans


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

FIGURE 105
Heroin with a Needle: Trends in Annual Prevalence by Region


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

FIGURE 106
Heroin with a Needle: Trends in Annual Prevalence by Population Density


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

FIGURE 107
Heroin with a Needle: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 108
Heroin with a Needle: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 109
Heroin without a Needle: Trends in Annual Prevalence by Gender


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

FIGURE 110
Heroin without a Needle: Trends in Annual Prevalence by College Plans


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

FIGURE 111
Heroin without a Needle: Trends in Annual Prevalence by Region


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

FIGURE 112
Heroin without a Needle: Trends in Annual Prevalence by Population Density


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

FIGURE 113
Heroin without a Needle: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 114
Heroin without a Needle: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

## FIGURE 115

## Narcotics other than Heroin:* Trends in Annual Prevalence by Gender



Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Refer to corresponding tables for further details.

## FIGURE 116

Narcotics other than Heroin:* Trends in Annual Prevalence by College Plans


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Refer to corresponding tables for further details.

FIGURE 117
Narcotics other than Heroin:* Trends in Annual Prevalence by Region


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Refer to corresponding tables for further details.

## FIGURE 118

## Narcotics other than Heroin:* Trends in Annual Prevalence by Population Density



Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Refer to corresponding tables for further details.

## FIGURE 119

Narcotics other than Heroin:* Trends in Annual Prevalence by Average Education Level of Parents**


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Refer to corresponding tables for further details.
**Parental education is an average score of mother's education and father's education. See appendix B for details.

## FIGURE 120

## Narcotics other than Heroin:* Trends in Annual Prevalence by Race/Ethnicity**



Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Refer to corresponding tables for further details. ${ }^{* *}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 121
OxyContin: Trends in Annual Prevalence by Gender


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

FIGURE 122
OxyContin: Trends in Annual Prevalence by College Plans


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

FIGURE 123
OxyContin: Trends in Annual Prevalence by Region


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

FIGURE 124
OxyContin: Trends in Annual Prevalence by Population Density


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

FIGURE 125
OxyContin: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 126
OxyContin: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 127
Vicodin: Trends in Annual Prevalence by Gender


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

FIGURE 128
Vicodin: Trends in Annual Prevalence by College Plans


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

FIGURE 129
Vicodin: Trends in Annual Prevalence by Region


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

FIGURE 130
Vicodin: Trends in Annual Prevalence by Population Density


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

FIGURE 131
Vicodin: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 132
Vicodin: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 133
Amphetamines:* Trends in Annual Prevalence by Gender


Source. The Monitoring the Future study, the University of Michigan.
*After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers.
Beginning in 2013, a revised set of questions on amphetamine use was introduced. Refer to corresponding tables for further details.

FIGURE 134
Amphetamines:* Trends in Annual Prevalence by College Plans


Source. The Monitoring the Future study, the University of Michigan.
*After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers.
Beginning in 2013, a revised set of questions on amphetamine use was introduced. Refer to corresponding tables for further details.

FIGURE 135
Amphetamines:* Trends in Annual Prevalence by Region


Source. The Monitoring the Future study, the University of Michigan.
*After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers.
Beginning in 2013, a revised set of questions on amphetamine use was introduced. Refer to corresponding tables for further details.

FIGURE 136
Amphetamines:* Trends in Annual Prevalence by Population Density


Source. The Monitoring the Future study, the University of Michigan.
*After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers.
Beginning in 2013, a revised set of questions on amphetamine use was introduced. Refer to corresponding tables for further details.

FIGURE 137
Amphetamines:* Trends in Annual Prevalence by Average Education Level of Parents**


Source. The Monitoring the Future study, the University of Michigan.
*After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers.
Beginning in 2013, a revised set of questions on amphetamine use was introduced. Refer to corresponding tables for further details.
**Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 138
Amphetamines:* Trends in Annual Prevalence by Race/Ethnicity**


Source. The Monitoring the Future study, the University of Michigan.
*After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers. In 2013, for the questions on the use of amphetamines, the text was changed on two of the questionnaire forms for 8 th and 10 th graders and four of the questionnaire forms for 12 th graders. Data presented here for 2013 include only the unchanged forms.
**To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 139
Ritalin: Trends in Annual Prevalence by Gender


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

FIGURE 140
Ritalin: Trends in Annual Prevalence by College Plans


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

FIGURE 141
Ritalin: Trends in Annual Prevalence by Region


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

FIGURE 142
Ritalin: Trends in Annual Prevalence by Population Density


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

FIGURE 143
Ritalin: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 144
Ritalin: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 145
Adderall: Trends in Annual Prevalence by Gender


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

FIGURE 146
Adderall: Trends in Annual Prevalence by College Plans


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

FIGURE 147
Adderall: Trends in Annual Prevalence by Region


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

FIGURE 148
Adderall: Trends in Annual Prevalence by Population Density


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

FIGURE 149
Adderall: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 150
Adderall: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

## FIGURE 151

## Provigil:* Trends in Annual Prevalence by Gender



Source. The Monitoring the Future study, the University of Michigan.
*Question discontinued in 2012.

FIGURE 152
Provigil:* Trends in Annual Prevalence by College Plans


Source. The Monitoring the Future study, the University of Michigan.
*Question discontinued in 2012.

## FIGURE 153

## Provigil:* Trends in Annual Prevalence by Region



Source. The Monitoring the Future study, the University of Michigan.
*Question discontinued in 2012.

## FIGURE 154

## Provigil:* Trends in Annual Prevalence by Population Density



Source. The Monitoring the Future study, the University of Michigan.
*Question discontinued in 2012.

## FIGURE 155

## Provigil:* Trends in Annual Prevalence by Average Education Level of Parents**



Source. The Monitoring the Future study, the University of Michigan.
*Question discontinued in 2012.
**Parental education is an average score of mother's education and father's education. See appendix B for details.

## FIGURE 156

## Provigil:* Trends in Annual Prevalence by Race/Ethnicity**



Source. The Monitoring the Future study, the University of Michigan.
*Question discontinued in 2012.
**To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 157
Methamphetamine: Trends in Annual Prevalence by Gender


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

FIGURE 158
Methamphetamine: Trends in Annual Prevalence by College Plans


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

FIGURE 159
Methamphetamine: Trends in Annual Prevalence by Region


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

FIGURE 160
Methamphetamine: Trends in Annual Prevalence by Population Density


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

FIGURE 161
Methamphetamine: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 162
Methamphetamine: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 163
Crystal Methamphetamine (Ice): Trends in Annual Prevalence by Gender


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

## FIGURE 164

## Crystal Methamphetamine (Ice): Trends in Annual Prevalence by College Plans



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

FIGURE 165
Crystal Methamphetamine (Ice): Trends in Annual Prevalence by Region


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

## FIGURE 166

Crystal Methamphetamine (Ice): Trends in Annual Prevalence by Population Density


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

## FIGURE 167

Crystal Methamphetamine (Ice): Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 168
Crystal Methamphetamine (Ice): Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 169
Bath Salts (Synthetic Stimulants): Trends in Annual Prevalence by Gender


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

FIGURE 170
Bath Salts (Synthetic Stimulants): Trends in Annual Prevalence by College Plans


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

FIGURE 171
Bath Salts (Synthetic Stimulants): Trends in Annual Prevalence by Region


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

FIGURE 172
Bath Salts (Synthetic Stimulants): Trends in Annual Prevalence by Population Density


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

FIGURE 173
Bath Salts (Synthetic Stimulants): Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 174
Bath Salts (Synthetic Stimulants): Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

## FIGURE 175

## Sedatives (Barbiturates): Trends in Annual Prevalence by Gender



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

## FIGURE 176

Sedatives (Barbiturates): Trends in Annual Prevalence by College Plans


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

## FIGURE 177

## Sedatives (Barbiturates): Trends in Annual Prevalence by Region



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

FIGURE 178
Sedatives (Barbiturates): Trends in Annual Prevalence by Population Density


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

## FIGURE 179

Sedatives (Barbiturates): Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

## FIGURE 180

## Sedatives (Barbiturates): Trends in Annual Prevalence by Race/Ethnicity*



Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 181
Tranquilizers:* Trends in Annual Prevalence by Gender


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on tranquilizer use was introduced. Refer to corresponding tables for further details.

FIGURE 182
Tranquilizers:* Trends in Annual Prevalence by College Plans


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on tranquilizer use was introduced. Refer to corresponding tables for further details.

FIGURE 183
Tranquilizers:* Trends in Annual Prevalence by Region


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on tranquilizer use was introduced. Refer to corresponding tables for further details.

FIGURE 184

## Tranquilizers:* Trends in Annual Prevalence by Population Density



Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on tranquilizer use was introduced. Refer to corresponding tables for further details.

FIGURE 185
Tranquilizers:* Trends in Annual Prevalence by Average Education Level of Parents**


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on tranquilizer use was introduced. Refer to corresponding tables for further details.
**Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 186
Tranquilizers:* Trends in Annual Prevalence by Race/Ethnicity**


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2001, a revised set of questions on tranquilizer use was introduced. Refer to corresponding tables for further details.
${ }^{* *}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 187
Over-the-Counter Cough/Cold Medicines: Trends in Annual Prevalence by Gender


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

FIGURE 188
Over-the-Counter Cough/Cold Medicines: Trends in Annual Prevalence by College Plans


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

FIGURE 189
Over-the-Counter Cough/Cold Medicines: Trends in Annual Prevalence by Region


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

FIGURE 190
Over-the-Counter Cough/Cold Medicines: Trends in Annual Prevalence by Population Density


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

FIGURE 191
Over-the-Counter Cough/Cold Medicines: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 192
Over-the-Counter Cough/Cold Medicines: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 193
Rohypnol:* Trends in Annual Prevalence by Gender


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2002, a revised set of questions on Rohypnol use was introduced among 12th graders. Refer to corresponding tables for further details.

FIGURE 194
Rohypnol:* Trends in Annual Prevalence by College Plans


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2002, a revised set of questions on Rohypnol use was introduced among 12th graders. Refer to corresponding tables for further details.

FIGURE 195
Rohypnol:* Trends in Annual Prevalence by Region


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2002, a revised set of questions on Rohypnol use was introduced among 12th graders. Refer to corresponding tables for further details.

FIGURE 196
Rohypnol:* Trends in Annual Prevalence by Population Density


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2002, a revised set of questions on Rohypnol use was introduced among 12th graders. Refer to corresponding tables for further details.

FIGURE 197
Rohypnol:* Trends in Annual Prevalence by Average Education Level of Parents**


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2002, a revised set of questions on Rohypnol use was introduced among 12th graders. Refer to corresponding tables for further details.
${ }^{* *}$ Parental education is an average score of mother's education and father's education. See appendix $B$ for details.

FIGURE 198
Rohypnol:* Trends in Annual Prevalence by Race/Ethnicity**


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 2002, a revised set of questions on Rohypnol use was introduced among 12th graders. Refer to corresponding tables for further details
${ }^{* *}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 199
Alcohol:* Trends in 30-Day Prevalence by Gender


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details

FIGURE 200
Alcohol:* Trends in 30-Day Prevalence by College Plans


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.

FIGURE 201
Alcohol:* Trends in 30-Day Prevalence by Region


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.

FIGURE 202
Alcohol:* Trends in 30-Day Prevalence by Population Density


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.

FIGURE 203
Alcohol:* Trends in 30-Day Prevalence by Average Education Level of Parents**


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.
${ }^{* *}$ Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 204
Alcohol:* Trends in 30-Day Prevalence by Race/Ethnicity**


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.
${ }^{* *}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 205
Alcohol:* Trends in Daily Prevalence by Gender


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details

FIGURE 206
Alcohol:* Trends in Daily Prevalence by College Plans


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.

FIGURE 207
Alcohol:* Trends in Daily Prevalence by Region


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details

FIGURE 208
Alcohol:* Trends in Daily Prevalence by Population Density


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.

FIGURE 209
Alcohol:* Trends in Daily Prevalence by Average Education Level of Parents**


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.
**Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 210
Alcohol:* Trends in Daily Prevalence by Race/Ethnicity**


Source. The Monitoring the Future study, the University of Michigan.
*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.
**To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 211
Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Gender


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

FIGURE 212
Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by College Plans


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

FIGURE 213
Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Region


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

FIGURE 214
Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Population Density


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

FIGURE 215
Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 216
Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 217
Alcohol: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Gender


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

FIGURE 218
Alcohol: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by College Plans


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

FIGURE 219
Alcohol: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Region


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

FIGURE 220
Alcohol: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Population Density


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

FIGURE 221
Alcohol: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 222
Alcohol: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 223
Beer: Trends in 30-Day Prevalence by Gender


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

FIGURE 224
Beer: Trends in 30-Day Prevalence by College Plans


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

FIGURE 225
Beer: Trends in 30-Day Prevalence by Region


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

FIGURE 226
Beer: Trends in 30-Day Prevalence by Population Density


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

FIGURE 227
Beer: Trends in 30-Day Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 228
Beer: Trends in 30-Day Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 229
Beer: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Gender


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

FIGURE 230
Beer: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by College Plans


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

FIGURE 231
Beer: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Region


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

FIGURE 232
Beer: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Population Density


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

FIGURE 233
Beer: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 234
Beer: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 235
Liquor: Trends in 30-Day Prevalence by Gender


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

FIGURE 236
Liquor: Trends in 30-Day Prevalence by College Plans


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

FIGURE 237
Liquor: Trends in 30-Day Prevalence by Region


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

FIGURE 238
Liquor: Trends in 30-Day Prevalence by Population Density


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

## FIGURE 239

Liquor: Trends in 30-Day Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 240
Liquor: Trends in 30-Day Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 241
Liquor: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Gender


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

## FIGURE 242

Liquor: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by College Plans


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

## FIGURE 243

Liquor: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Region


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

## FIGURE 244

Liquor: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Population Density


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

## FIGURE 245

Liquor: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

## FIGURE 246

Liquor: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 247
Wine:* Trends in 30-Day Prevalence by Gender


Source. The Monitoring the Future study, the University of Michigan.
*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

FIGURE 248
Wine:* Trends in 30-Day Prevalence by College Plans


Source. The Monitoring the Future study, the University of Michigan.
*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

FIGURE 249

## Wine:* Trends in 30-Day Prevalence by Region



Source. The Monitoring the Future study, the University of Michigan.
*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

FIGURE 250
Wine:* Trends in 30-Day Prevalence by Population Density


Source. The Monitoring the Future study, the University of Michigan.
*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

## FIGURE 251

## Wine:* Trends in 30-Day Prevalence by Average Education Level of Parents**



Source. The Monitoring the Future study, the University of Michigan.
*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.
**Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 252
Wine:* Trends in 30-Day Prevalence by Race/Ethnicity**


Source. The Monitoring the Future study, the University of Michigan.
*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between
the 1987 and 1988 use rates for wine.
**To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 253
Wine:* Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Gender


Source. The Monitoring the Future study, the University of Michigan.
*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

## FIGURE 254

Wine:* Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by College Plans


Source. The Monitoring the Future study, the University of Michigan.
*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

## FIGURE 255

Wine:* Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Region


Source. The Monitoring the Future study, the University of Michigan.
*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

## FIGURE 256

Wine:* Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Population Density


Source. The Monitoring the Future study, the University of Michigan.
*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

## FIGURE 257

Wine:* Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Average Education Level of Parents**


Source. The Monitoring the Future study, the University of Michigan.
*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.
**Parental education is an average score of mother's education and father's education. See appendix B for details.

## FIGURE 258

Wine:* Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Race/Ethnicity**


Source. The Monitoring the Future study, the University of Michigan.
*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between
the 1987 and 1988 use rates for wine.
**To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 259
Wine Coolers:* Trends in 30-Day Prevalence by Gender


Source. The Monitoring the Future study, the University of Michigan.
*Question discontinued for 8th and 10th graders in 2004.

FIGURE 260
Wine Coolers:* Trends in 30-Day Prevalence by College Plans


Source. The Monitoring the Future study, the University of Michigan.
*Question discontinued for 8th and 10th graders in 2004.

FIGURE 261
Wine Coolers:* Trends in 30-Day Prevalence by Region


Source. The Monitoring the Future study, the University of Michigan.
*Question discontinued for 8th and 10th graders in 2004.

FIGURE 262
Wine Coolers:* Trends in 30-Day Prevalence by Population Density


Source. The Monitoring the Future study, the University of Michigan.
*Question discontinued for 8th and 10th graders in 2004.

FIGURE 263
Wine Coolers:* Trends in 30-Day Prevalence by Average Education Level of Parents**


Source. The Monitoring the Future study, the University of Michigan.
*Question discontinued for 8th and 10th graders in 2004.
**Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 264
Wine Coolers:* Trends in 30-Day Prevalence by Race/Ethnicity**


Source. The Monitoring the Future study, the University of Michigan.
*Question discontinued for 8th and 10th graders in 2004.
**To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

## FIGURE 265

Wine Coolers: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Gender


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

## FIGURE 266

Wine Coolers: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by College Plans


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

## FIGURE 267

Wine Coolers: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Region


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

## FIGURE 268

Wine Coolers: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Population Density


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

FIGURE 269
Wine Coolers: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

## FIGURE 270

Wine Coolers: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 271
Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by Gender


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

FIGURE 272
Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by College Plans


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

FIGURE 273
Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by Region


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

FIGURE 274
Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by Population Density


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

FIGURE 275
Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 276
Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 277
Alcoholic Beverages containing Caffeine: Trends in Annual Prevalence by Gender


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

FIGURE 278
Alcoholic Beverages containing Caffeine: Trends in Annual Prevalence by College Plans


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

FIGURE 279
Alcoholic Beverages containing Caffeine: Trends in Annual Prevalence by Region


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

FIGURE 280
Alcoholic Beverages containing Caffeine: Trends in Annual Prevalence by Population Density


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

FIGURE 281
Alcoholic Beverages containing Caffeine: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 282
Alcoholic Beverages containing Caffeine: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 283
Cigarettes: Trends in 30-Day Prevalence by Gender


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

FIGURE 284
Cigarettes: Trends in 30-Day Prevalence by College Plans


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

FIGURE 285
Cigarettes: Trends in 30-Day Prevalence by Region


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

FIGURE 286
Cigarettes: Trends in 30-Day Prevalence by Population Density


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

FIGURE 287
Cigarettes: Trends in 30-Day Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 288
Cigarettes: Trends in 30-Day Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 289
Cigarettes: Trends in 30-Day Prevalence of Daily Use by Gender


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

FIGURE 290
Cigarettes: Trends in 30-Day Prevalence of Daily Use by College Plans


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

FIGURE 291
Cigarettes: Trends in 30-Day Prevalence of Daily Use by Region


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

FIGURE 292
Cigarettes: Trends in 30-Day Prevalence of Daily Use by Population Density


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

FIGURE 293
Cigarettes: Trends in 30-Day Prevalence of Daily Use by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 294
Cigarettes: Trends in 30-Day Prevalence of Daily Use by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 295
Cigarettes: Trends in Prevalence of Use of Half Pack a Day or More by Gender


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

FIGURE 296
Cigarettes: Trends in Prevalence of Use of Half Pack a Day or More by College Plans


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

FIGURE 297
Cigarettes: Trends in Prevalence of Use of Half Pack a Day or More by Region


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

FIGURE 298
Cigarettes: Trends in Prevalence of Use of Half Pack a Day or More by Population Density


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

FIGURE 299
Cigarettes: Trends in Prevalence of Use of Half Pack a Day or More by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 300
Cigarettes: Trends in Prevalence of Use of Half Pack a Day or More by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 301
Tobacco using a Hookah: Trends in Annual Prevalence by Gender


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

FIGURE 302
Tobacco using a Hookah: Trends in Annual Prevalence by College Plans


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

## FIGURE 303

Tobacco using a Hookah: Trends in Annual Prevalence by Region


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

FIGURE 304
Tobacco using a Hookah: Trends in Annual Prevalence by Population Density


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

FIGURE 305
Tobacco using a Hookah: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 306
Tobacco using a Hookah: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 307
Smokeless Tobacco: Trends in 30-Day Prevalence by Gender


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

FIGURE 308
Smokeless Tobacco: Trends in 30-Day Prevalence by College Plans


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

FIGURE 309
Smokeless Tobacco: Trends in 30-Day Prevalence by Region


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

FIGURE 310
Smokeless Tobacco: Trends in 30-Day Prevalence by Population Density


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

FIGURE 311
Smokeless Tobacco: Trends in 30-Day Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 312
Smokeless Tobacco: Trends in 30-Day Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 313

## Smokeless Tobacco: Trends in 30-Day Prevalence of Daily Use by Gender



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

FIGURE 314
Smokeless Tobacco: Trends in 30-Day Prevalence of Daily Use by College Plans


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

FIGURE 315
Smokeless Tobacco: Trends in 30-Day Prevalence of Daily Use by Region


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

FIGURE 316
Smokeless Tobacco: Trends in 30-Day Prevalence of Daily Use by Population Density


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

FIGURE 317
Smokeless Tobacco: Trends in 30-Day Prevalence of Daily Use by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 318
Smokeless Tobacco: Trends in 30-Day Prevalence of Daily Use by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 319
Dissolvable Tobacco Products: Trends in Annual Prevalence by Gender


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

FIGURE 320
Dissolvable Tobacco Products: Trends in Annual Prevalence by College Plans


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

FIGURE 321

## Dissolvable Tobacco Products: Trends in Annual Prevalence by Region



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

FIGURE 322
Dissolvable Tobacco Products: Trends in Annual Prevalence by Population Density


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

FIGURE 323
Dissolvable Tobacco Products: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 324
Dissolvable Tobacco Products: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 325
Snus: Trends in Annual Prevalence by Gender


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

FIGURE 326
Snus: Trends in Annual Prevalence by College Plans


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

FIGURE 327
Snus: Trends in Annual Prevalence by Region


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

FIGURE 328
Snus: Trends in Annual Prevalence by Population Density


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

FIGURE 329
Snus: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 330
Snus: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 331
E-Cigarettes: Trends in 30-Day Prevalence by Gender


Source. The Monitoring the Future study, the University of Michigan.
*Question text is: During the last 30 days, on how many days (if any) have you used electronic cigarettes (e-cigarettes)?

FIGURE 332
E-Cigarettes: Trends in 30-Day Prevalence by College Plans


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

FIGURE 333
E-Cigarettes: Trends in 30-Day Prevalence by Region


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

FIGURE 334
E-Cigarettes: Trends in 30-Day Prevalence by Population Density


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

FIGURE 335
E-Cigarettes: Trends in 30-Day Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 336
E-Cigarettes: Trends in 30-Day Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 337
Large Cigars: Trends in 30-Day Prevalence by Gender


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

FIGURE 338
Large Cigars: Trends in 30-Day Prevalence by College Plans


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

FIGURE 339
Large Cigars: Trends in 30-Day Prevalence by Region


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

FIGURE 340
Large Cigars: Trends in 30-Day Prevalence by Population Density


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

FIGURE 341
Large Cigars: Trends in 30-Day Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 342
Large Cigars: Trends in 30-Day Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 343
Small Cigars*: Trends in Annual Prevalence by Gender


Source. The Monitoring the Future study, the University of Michigan.
*Question text is: During the last 12 months, on how many occasions have you smoked small cigars?

FIGURE 344
Small Cigars: Trends in Annual Prevalence by College Plans


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

FIGURE 345
Small Cigars: Trends in Annual Prevalence by Region


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

## FIGURE 346

## Small Cigars: Trends in Annual Prevalence by Population Density



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

FIGURE 347
Small Cigars: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

## FIGURE 348

## Small Cigars: Trends in Annual Prevalence by Race/Ethnicity*

12th Graders


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 349
Flavored Little Cigars*: Trends in 30-Day Prevalence by Gender


Source. The Monitoring the Future study, the University of Michigan.
*Question text is: During the last 30 days, on how many days (if any) have you smoked flavored little cigars or cigarillos?

FIGURE 350
Flavored Little Cigars: Trends in 30-Day Prevalence by College Plans


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

FIGURE 351
Flavored Little Cigars: Trends in 30-Day Prevalence by Region


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

FIGURE 352
Flavored Little Cigars: Trends in 30-Day Prevalence by Population Density


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

FIGURE 353
Flavored Little Cigars: Trends in 30-Day Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details

FIGURE 354
Flavored Little Cigars: Trends in 30-Day Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 355
Regular Little Cigars*: Trends in 30-Day Prevalence by Gender


Source. The Monitoring the Future study, the University of Michigan.
*Question text is: During the last 30 days, on how many days (if any) have you smoked regular little cigars or cigarillos?

FIGURE 356
Regular Little Cigars: Trends in 30-Day Prevalence by College Plans


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

FIGURE 357
Regular Little Cigars: Trends in 30-Day Prevalence by Region


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

FIGURE 358
Regular Little Cigars: Trends in 30-Day Prevalence by Population Density


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

FIGURE 359
Regular Little Cigars: Trends in 30-Day Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details

FIGURE 360
Regular Little Cigars: Trends in 30-Day Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

FIGURE 361
Steroids: Trends in Annual Prevalence by Gender


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

FIGURE 362
Steroids: Trends in Annual Prevalence by College Plans


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

FIGURE 363
Steroids: Trends in Annual Prevalence by Region


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

FIGURE 364
Steroids: Trends in Annual Prevalence by Population Density


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

FIGURE 365
Steroids: Trends in Annual Prevalence by Average Education Level of Parents*


Source. The Monitoring the Future study, the University of Michigan.
*Parental education is an average score of mother's education and father's education. See appendix B for details.

FIGURE 366
Steroids: Trends in Annual Prevalence by Race/Ethnicity*


Source. The Monitoring the Future study, the University of Michigan.
*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

## DEFINITION OF BACKGROUND AND DEMOGRAPHIC SUBGROUPS

The following are brief definitions of the background and demographic subgroups explored in the Monitoring the Future (MTF) national survey of 8th, 10th, and 12th graders' attitudes toward and use of drugs (including alcohol and tobacco). A more thorough discussion of the findings can be found in Appendix B of the MTF Volume I monograph, Monitoring the Future National Survey Results on Drug Use, 1975-2015: Volume I, Secondary School Students. ${ }^{4}$ (Note: All case counts provided in the tables are based on weighted Ns.)

Total: The total sample of respondents in a given year based on weighted cases (set to equal the total number of actual cases).

Gender: Male and female. Respondents are asked "What is your sex?" Those with missing data on the question are omitted from the data presented by gender.

College Plans:

Respondents are asked how likely it is that they will graduate from a four-year college program. College plans groupings are defined as follows:

None or under four years. Respondents who indicate they "definitely won't" or "probably won't" graduate from a four-year college program. (Note that, among those who do not expect to complete a four-year college program, a number still expect to get some postsecondary education.)

Complete four years. Respondents who indicate they "definitely will" or "probably will" graduate from a four-year college program.

Those not answering the college plans question are omitted from both groupings.
Region: Region of the country in which the respondent's school is located. There are four mutually exclusive regions in the US based on Census Bureau categories, defined as follows:

Northeast. Census classifications of New England and Middle Atlantic states consist of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, and Pennsylvania.

Midwest. Census classifications of East North Central and West North Central states consist of Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas.

South. Census classifications of South Atlantic, East South Central, and West South Central states consist of Delaware, Maryland, District of Columbia,

[^1]Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, Oklahoma, and Texas.

West. Census classifications of Mountain and Pacific states consist of Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Washington, Oregon, and California (Alaska and Hawaii are also included in this Census region, but are not included in the MTF study).

## Population Density:

Population density of the area in which the schools are located. There are three mutually exclusive groups into which schools have been placed in a given year based on populations density (which has been variously defined over time by the U.S. Bureau of the Census, as described below). The 1975-1985 samples were based on the 1970 Census; in 1986, one half of the sample was based on the 1970 Census and the other half was based on the 1980 Census. In 1987 through 1993, all samples were based on the 1980 Census; in 1994, half of the sample was based on the 1980 Census and half on the 1990 Census. Starting in 2006 until 2013, each first-year half-sample of schools comes from a sample design that utilizes 2000 Census counts as the measure of size for first-stage units. Counts from the 2010 Census will be used for the samples beginning in 2014.

The three levels of population density were defined in terms of Standard Metropolitan Statistical Area (SMSA) designations through 1985, and then changed to the new Census Bureau classifications of Metropolitan Statistical Areas (MSAs). Except in the New England states, an MSA is a county or group of contiguous counties that contain at least one city of 50,000 inhabitants or more, or twin cities with a combined population of at least 50,000. In the New England states, MSAs consisted of towns and cities instead of counties until 1994, after which New England Consolidated Metropolitan Areas (NECMAs) were used to define MSAs. Each MSA must include at least one central city, and the complete title of an MSA identifies the central city or cities. For the complete description of the criteria used in defining MSAs, see the Office of Management and Budget publication, Metropolitan Statistical Areas, 1990 (NTIS-PB90214420), Washington, D.C. The population living in an MSA is designated as the metropolitan population. The levels of population density used in MTF include those described here:

Large MSA. These were the 12 largest SMSAs as of the 1970 Census and were used for the 1975-1985 samples: New York, Los Angeles, Chicago, Philadelphia, Detroit, San Francisco, Washington, Boston, Pittsburgh, St. Louis, Baltimore, and Cleveland. As of the 1980 Census, the Large MSA group consisted of the 16 largest MSAs in the nation. This new structure was used for the 1986-1994 samples. These 16 MSAs include all of those mentioned above except Cleveland, plus Dallas-Fort Worth, Houston, Nassau-Suffolk, Minneapolis-St. Paul, and Atlanta.

A new sample design was developed based on the 1990 Census, beginning with the first-year half-sample of schools chosen in 1994. In the 1990s sample, only the eight largest MSAs are represented with certainty at all three grade levels; 16 other large MSAs are divided into pairs, with half randomly assigned to both the 8th- and 12th-grade samples and the other half assigned to the 10th-grade sample. The eight largest MSAs are New York, Los Angeles, Chicago, Philadelphia PA-NJ, Detroit, Washington DC-MD-VA, Dallas-Ft. Worth, and Boston. The other 16 large MSAs are Houston, Atlanta, Seattle-Tacoma, Minneapolis MN-WI, St. Louis MO-IL, San Diego, Baltimore, Pittsburgh, Phoenix, Oakland, Cleveland, Miami, Newark, Denver, San Francisco, and Kansas City MO-KS.

Other MSAs. This category consists of all other MSAs, as defined by the Census, except those listed previously.

Non-MSAs. This category consists of all areas not designated as MSAs-in other words, they do not contain a town (or twin cities) of at least 50,000 inhabitants. The population living outside of MSAs constitutes the nonmetropolitan population.

Parental Education:

Race/ Ethnicity:

This is an average of mother's education and father's education based on the respondents' answers about the highest level of education achieved by each parent, using the following scale: (1) completed grade school or less, (2) some high school, (3) completed high school, (4) some college, (5) completed college, and (6) graduate or professional school after college. Missing data were allowed for one of the two parents. The respondent was instructed, "If you were raised mostly by foster parents, stepparents, or others, answer for them. For example, if you have both a stepfather and a natural father, answer for the one that was most important in raising you."

From 1975 through 2004, respondents were asked "How do you describe yourself?" and presented with a list of various racial/ethnic categories. A general instruction told them to select the one best response for each question. In 2005 the instructions in half of the questionnaire forms were revised in order to be more consistent with the guidelines of the Office of Management and Budget for assessing race/ethnicity. In the changed forms, respondents were presented with a list of racial/ethnic categories and instructed to "select one or more responses." An examination of the data showed that relatively few respondents (about $6 \%$ in 2005 and about $6.6 \%$ of the sample in 2014) selected more than one racial/ethnic category. Because some survey questions appear in only one or a few forms, there was some variation in the version of the race/ethnicity question upon which the 2005 data were based. Based on the analyses we have examined, we do not believe these different permutations make any appreciable difference in the results. In 2006 and thereafter the revised instruction was used in all forms. Those checking multiple racial/ethnic groups or one of the other specified groups
are omitted from the reporting on race/ethnicity in this volume because of the small numbers of cases.

White/Caucasian. Consists of those respondents who describe themselves as White or Caucasian in 1975-2004. In 2005 the unchanged questionnaire forms were treated in a similar manner. For the revised question in 2005 and for all forms in 2006 and beyond, those checking only White and no other racial/ethnic group were categorized as White.

African American. Consists of those respondents who in 1975-1990 describe themselves as Black or Afro-American or who, in 1991-2004, describe themselves as Black or African American. In 2005 the unchanged questionnaire forms were treated in a similar manner; for the revised question in 2005 and for all forms in 2006 and beyond, only those checking Black or African American and no other racial ethnic group were categorized as African American.

Hispanic. Consists of those respondents who in 1975-1990 describe themselves as Mexican American or Chicano, or Puerto Rican or other Latin American. After 1990 this group includes those respondents who describe themselves as Mexican American or Chicano, Cuban American, Puerto Rican American, or other Latin American. The term "Puerto Rican American" was shortened to "Puerto Rican" after 1994. In 2005 the unchanged questionnaire forms were treated in a similar manner; the changed forms in 2005 and for all forms in 2006 and beyond, only those checking Mexican American or Chicano, Cuban American, Puerto Rican, or Other Hispanic or Latino and no other racial/ethnic group were categorized as Hispanic.

## TRENDS BY SUBGROUP: SUPPLEMENTAL TABLES FOR SECONDARY SCHOOL STUDENTS

Trends in subgroup data for the 1975-2015 Monitoring the Future (MTF) results containing 8th, 10th, and 12th graders' use of drugs and alcohol are presented in tables below. The trends observed span all major classes of drugs for population subgroups defined by gender, college plans, region, population density, parental education, and race/ethnicity. Appendix D of Volume I contains a portion of the information presented here. ${ }^{5}$

Due to the sheer quantity of information such trend tables generate for each prevalence measure (e.g., lifetime, annual, 30-day, daily), we have selected only the prevalence periods that seem most useful for understanding subgroup differences below. Thus, for most drugs, we include only annual prevalence; rates for additional prevalence periods are provided for alcohol, cigarettes, and smokeless tobacco because of their more frequent use. The numbers of cases that go with the data in the figures may be found in the complete set of tables that are included below.

The subgroups distinguished in these tables are used throughout Volume $I$ and defined in the previous section. The reader should note that two-year moving averages are given for the three major racial/ethnic groups included in order to reduce fluctuations in the trends due to random sampling differences. A footnote in each table describes the procedure used to obtain the presented data. A question about race/ethnicity identification was changed in 2005 in half of the questionnaire forms, allowing respondents to select multiple categories of race/ethnicity rather than just one (see the previous section for more details). In 2006, the remaining questionnaire forms were changed in a like manner. However, we believe that this change has had little effect on the results because so few respondents selected more than one of the categories offered.

For nearly all drugs we provide one table showing the subgroup trends (since 1991) for 8th graders, a second table of trends (since 1991) for 10th graders and a third table showing the longer-term trends (since 1975) for 12th graders. However, for two of the drugs-sedatives (barbiturates) and narcotics other than heroin - the 8th- and 10th-grade data have been omitted, as they have been throughout MTF publications because we are less certain about the validity of the answers provided by those younger students. Specifically, we believe that they often fail to omit nonprescription substances. Usage questions for a few other drugs are simply not asked of 8th and 10th graders; thus only 12th-grade tables are presented.

Sample sizes should be taken into account when interpreting the importance of any changes observed. The numbers provided in the tables assume that all respondents in a given grade were asked about their use of the drug. Some of the drugs were not contained in all questionnaire forms, meaning that the subgroup and total numbers must be adjusted accordingly. The "Notes" section at the bottom of each table will indicate if only a fraction of the total sample received the question.

[^2]This paper also includes graphic presentations of the trends presented in the tables for the various demographic subgroups. These figures use color to help distinguish the various subgroups and improve readability.

## TABLE 1

ANY ILLICIT DRUG: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 8

Percentage who used in last 12 months
2014-
$\underline{1991} \quad \underline{1992} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015} \quad \underline{\text { change }}$


Total Gender:


Female
College Plans:
None or under 4 years
Complete 4 years
Region:
Northeast
Midwest
South
West
Population Density:
Large MSA
Other MSA
Non-MSA
Parental Education: ${ }^{\text {b }}$
1.0-2.0 (Low)
2.5-3.0
3.5-4.0
4.5-5.0
5.5-6.0 (High)

Race/Ethnicity (2-year average): ${ }^{\text {c }}$
White
African American


| Hispanic | - | 18.1 | 20.6 |
| :--- | :--- | :--- | :--- |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |


 half the forms; N is one half of N indicated. Beginning in 2014 data are based on all forms. See the amphetamine notes for details of the changes.

because 8th and 10th graders appear to overreport their use (perhaps because they include the use of nonprescription drugs in their answers).
${ }^{\mathrm{b}}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\text {c }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 2
ANY ILLICIT DRUG：${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 10

Percentage who used in last 12 months
2014－



| Total | 21.4 | 20.4 | 24.7 | 30.0 | 33.3 | 37.5 | 38.5 | 35.0 | 35.9 | 36.4 | 37.2 | 34.8 | 32.0 | 31.1 | 29.8 | 28.7 | 28.1 | 26.9 | 29.4 | 30.2 | 31.1 | 30．1才 | 32.1 | 29.9 | 27.9 | $-2.1$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 21.6 | 20.4 | 25.1 | 31.8 | 33.7 | 38.8 | 40.1 | 35.3 | 37.0 | 39.4 | 39.6 | 35.9 | 33.2 | 32.0 | 30.5 | 29.3 | 29.5 | 27.9 | 31.6 | 33.0 | 33.8 | 32．9才 | 34.9 | 30.3 | 27.8 | －2．4 |
| Female | 21.1 | 20.1 | 24.0 | 28.0 | 32.5 | 36.3 | 36.8 | 34.7 | 34.6 | 33.5 | 35.0 | 33.7 | 30.8 | 30.2 | 28.9 | 28.1 | 26.7 | 25.6 | 27.3 | 27.3 | 28.2 | 27．5 $\ddagger$ | 29.4 | 29.4 | 27.6 | $-1.7$ |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 32.7 | 32.0 | 37.7 | 43.2 | 47.3 | 52.4 | 55.2 | 50.5 | 51.8 | 53.5 | 52.7 | 51.5 | 48.6 | 46.9 | 45.8 | 46.2 | 45.7 | 47.0 | 48.5 | 48.8 | 50.4 | 46．2 $\ddagger$ | 46.2 | 44.4 | 44.3 | －0．1 |
| Complete 4 years | 18.9 | 17.8 | 21.9 | 27.0 | 30.8 | 35.0 | 35.7 | 32.2 | 33.2 | 33.9 | 34.6 | 32.1 | 29.2 | 28.9 | 27.6 | 26.4 | 25.7 | 24.2 | 27.3 | 28.0 | 28.9 | 28．5 $\ddagger$ | 30.6 | 28.4 | 26.1 | －2．3 s |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 21.8 | 19.0 | 26.9 | 29.6 | 32.4 | 37.7 | 37.8 | 39.0 | 38.2 | 34.0 | 37.4 | 35.2 | 32.6 | 32.8 | 31.3 | 27.8 | 27.7 | 28.6 | 26.2 | 27.9 | 30.6 | 33．2才 | 29.7 | 29.5 | 28.9 | －0．5 |
| Midwest | 21.7 | 20.7 | 22.4 | 28.5 | 32.1 | 37.6 | 37.7 | 32.0 | 35.2 | 34.8 | 35.9 | 33.7 | 28.8 | 28.8 | 29.1 | 28.2 | 28.1 | 25.8 | 26.2 | 28.1 | 29.0 | 26．3才 | 29.9 | 26.6 | 23.9 | －2．8 |
| South | 19.2 | 17.9 | 23.3 | 29.2 | 33.2 | 37.9 | 38.7 | 35.1 | 34.8 | 36.0 | 36.7 | 33.9 | 34.0 | 32.9 | 31.1 | 29.7 | 26.7 | 27.1 | 31.6 | 31.0 | 31.4 | 30．3 $\ddagger$ | 33.6 | 31.1 | 28.4 | －2．8 |
| West | 23.7 | 25.5 | 28.9 | 34.4 | 36.1 | 36.8 | 40.2 | 34.5 | 36.0 | 41.6 | 40.7 | 37.7 | 32.3 | 29.8 | 26.9 | 29.0 | 30.2 | 26.2 | 32.6 | 33.3 | 33.2 | $31.6 \ddagger$ | 34.1 | 31.8 | 30.2 | －1．6 |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 21.4 | 19.9 | 24.0 | 29.4 | 28.7 | 35.5 | 37.2 | 32.6 | 35.0 | 36.5 | 34.0 | 33.0 | 30.5 | 28.9 | 28.0 | 27.3 | 27.9 | 26.4 | 29.0 | 28.9 | 29.5 | 30．8 $\ddagger$ | 31.0 | 30.0 | 28.2 | －1．8 |
| Other MSA | 22.0 | 20.8 | 25.1 | 32.7 | 35.5 | 40.0 | 40.0 | 36.9 | 37.3 | 36.6 | 39.0 | 36.9 | 32.4 | 32.0 | 31.1 | 28.6 | 28.3 | 28.1 | 30.7 | 31.9 | 32.6 | 30．2 $\ddagger$ | 33.8 | 30.5 | 28.2 | －2．3 |
| Non－MSA | 20.4 | 20.1 | 24.4 | 24.7 | 30.7 | 35.1 | 37.2 | 34.5 | 33.9 | 35.8 | 37.4 | 32.8 | 33.5 | 32.3 | 29.5 | 31.4 | 27.8 | 24.8 | 27.4 | 28.6 | 30.2 | 29．2 $\ddagger$ | 29.5 | 28.5 | 26.3 | －2．2 |
| Parental Education：${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 25.5 | 24.8 | 29.2 | 32.6 | 38.2 | 39.5 | 38.3 | 36.6 | 42.2 | 42.4 | 39.0 | 39.4 | 38.8 | 37.7 | 33.2 | 36.2 | 32.0 | 33.6 | 39.5 | 37.4 | 37.7 | 39．8 $\ddagger$ | 40.5 | 35.0 | 36.8 | ＋1．8 |
| 2．5－3．0 | 23.0 | 21.3 | 25.4 | 31.1 | 37.1 | 39.1 | 40.8 | 39.1 | 39.4 | 39.2 | 41.6 | 39.4 | 36.4 | 34.0 | 34.3 | 33.7 | 33.0 | 31.7 | 32.8 | 36.1 | 36.3 | 34．5 $\ddagger$ | 40.6 | 34.8 | 34.0 | －0．8 |
| 3．5－4．0 | 21.2 | 20.6 | 24.9 | 30.5 | 34.7 | 40.1 | 41.6 | 35.6 | 35.4 | 39.5 | 38.2 | 35.5 | 33.3 | 33.6 | 30.6 | 30.6 | 30.2 | 29.2 | 30.3 | 31.9 | 33.2 | 31．8 $\ddagger$ | 32.1 | 33.6 | 31.8 | －1．9 |
| 4．5－5．0 | 19.4 | 18.7 | 22.5 | 28.1 | 30.9 | 35.5 | 36.3 | 31.9 | 32.8 | 32.6 | 35.1 | 31.9 | 27.8 | 27.7 | 27.6 | 24.6 | 24.7 | 22.3 | 26.5 | 24.6 | 27.2 | 27．5 $\ddagger$ | 29.2 | 25.5 | 24.5 | －1．0 |
| 5．5－6．0（High） | 21.1 | 18.5 | 23.6 | 27.2 | 26.6 | 33.6 | 33.7 | 31.5 | 34.6 | 31.3 | 32.7 | 29.1 | 27.5 | 26.2 | 25.9 | 24.3 | 21.7 | 21.7 | 24.5 | 25.7 | 25.1 | 24．8 $\ddagger$ | 24.2 | 24.3 | 20.7 | －3．7 |
| Race／Ethnicity（2－year average）：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | － | 22.4 | 23.7 | 27.9 | 32.6 | 36.5 | 39.3 | 38.2 | 36.4 | 36.9 | 37.6 | 37.6 | 35.0 | 32.2 | 31.0 | 30.2 | 29.4 | 28.0 | 27.9 | 29.2 | 30.0 | 29.7 | 29．2 $\ddagger$ | 29.0 | 27.2 | －1．8 |
| African American | － | 10.8 | 11.9 | 18.5 | 23.6 | 27.3 | 30.2 | 28.9 | 28.4 | 29.7 | 30.5 | 28.5 | 27.3 | 29.3 | 29.0 | 26.2 | 24.2 | 22.4 | 23.5 | 26.6 | 29.6 | 30.6 | 32．5才 | 33.2 | 30.8 | －2．4 |
| Hispanic | － | 23.6 | 26.3 | 30.3 | 34.3 | 40.0 | 41.3 | 38.1 | 38.4 | 39.3 | 38.8 | 36.2 | 33.8 | 34.5 | 32.8 | 28.5 | 27.3 | 30.1 | 33.1 | 34.0 | 33.5 | 34.3 | 36．3 $\ddagger$ | 35.8 | 32.8 | －3．0 |

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

Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding．See Table S2 for the number of subgroup cases．See appendix B for definition of variables in table．The 2013 data are based
on half the forms； N is one half of N indicated．Beginning in 2014 data are based on all forms．See the amphetamine notes for details of the changes．

because 8th and 10th graders appear to overreport their use（perhaps because they include the use of nonprescription drugs in their answers）．
${ }^{\mathrm{b}}$ Parental education is an average score of mother＇s education and father＇s education．See appendix B for details．
${ }^{\text {c }}$ To derive percentages for each racial subgroup，data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates．See appendix $B$ for details on how race／ethnicity is defined．

TABLE 3
ANY ILLICIT DRUG: ${ }^{\text {a,b }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |
| Total | 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 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 49.0 | 52.6 | 55.4 | 58.6 | 58.1 | 56.0 | 53.6 | 51.8 | 49.7 | 48.0 | 48.3 | 45.7 | 43.2 | 40.6 | 37.7 | 34.3 | 32.1 | 29.0 | 33.5 | 38.6 |
| Female | 41.4 | 43.0 | 46.7 | 48.7 | 50.1 | 49.8 | 50.8 | 46.3 | 44.4 | 42.8 | 43.8 | 42.3 | 39.7 | 36.1 | 32.8 | 30.1 | 26.2 | 24.7 | 27.9 | 32.7 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 50.6 | 54.3 | 55.5 | 56.8 | 56.5 | 55.8 | 53.4 | 50.8 | 50.3 | 50.1 | 48.6 | 46.7 | 42.0 | 40.9 | 37.8 | 33.9 | 33.5 | 34.9 | 40.8 |
| Complete 4 years | - | 44.3 | 46.8 | 50.5 | 50.5 | 49.7 | 48.6 | 45.5 | 43.7 | 41.4 | 43.1 | 41.2 | 39.0 | 36.5 | 32.6 | 29.6 | 27.1 | 24.4 | 29.2 | 33.6 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 51.5 | 55.3 | 56.8 | 61.6 | 62.9 | 58.9 | 58.8 | 55.1 | 53.8 | 54.7 | 53.2 | 49.7 | 45.8 | 41.2 | 36.0 | 36.4 | 31.9 | 28.7 | 36.1 | 39.4 |
| Midwest | 45.5 | 47.6 | 51.9 | 54.6 | 55.0 | 53.1 | 53.4 | 50.3 | 46.9 | 42.4 | 45.7 | 45.0 | 42.7 | 39.7 | 38.7 | 34.0 | 31.3 | 27.8 | 30.8 | 36.5 |
| South | 38.1 | 42.3 | 46.2 | 47.5 | 45.4 | 47.0 | 43.7 | 42.2 | 41.3 | 41.4 | 37.2 | 37.4 | 35.9 | 34.2 | 30.7 | 27.6 | 24.5 | 23.7 | 28.2 | 34.1 |
| West | 48.3 | 49.7 | 50.0 | 53.2 | 56.4 | 55.8 | 55.5 | 51.7 | 50.7 | 49.1 | 53.3 | 47.8 | 45.7 | 41.8 | 39.5 | 34.4 | 32.6 | 31.1 | 31.8 | 34.7 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 54.5 | 54.6 | 56.3 | 60.3 | 61.3 | 59.9 | 57.8 | 54.8 | 52.0 | 49.7 | 49.9 | 48.0 | 43.9 | 39.1 | 32.9 | 32.6 | 28.6 | 26.8 | 32.9 | 36.4 |
| Other MSA | 45.0 | 47.8 | 52.4 | 54.5 | 55.2 | 53.8 | 52.1 | 49.8 | 49.6 | 46.7 | 46.5 | 45.1 | 42.7 | 40.5 | 36.3 | 33.5 | 33.0 | 27.3 | 31.7 | 37.8 |
| Non-MSA | 38.8 | 43.7 | 45.2 | 47.4 | 47.6 | 47.0 | 47.6 | 44.0 | 41.1 | 41.4 | 43.0 | 40.0 | 37.6 | 34.3 | 36.0 | 30.1 | 23.8 | 27.0 | 28.4 | 31.6 |
| Parental Education: ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 43.4 | 45.3 | 47.7 | 50.2 | 49.5 | 48.1 | 44.3 | 45.1 | 42.7 | 42.8 | 38.1 | 35.4 | 35.8 | 28.4 | 26.6 | 28.7 | 27.7 | 29.5 | 32.9 |
| 2.5-3.0 | - | 49.2 | 51.8 | 53.3 | 53.2 | 53.0 | 51.2 | 48.8 | 46.3 | 45.7 | 46.0 | 44.8 | 41.8 | 37.2 | 35.3 | 32.7 | 28.7 | 26.4 | 29.2 | 35.4 |
| 3.5-4.0 | - | 48.9 | 53.1 | 55.1 | 56.1 | 54.2 | 52.8 | 50.8 | 46.5 | 47.6 | 47.2 | 45.6 | 42.2 | 38.6 | 37.7 | 33.8 | 29.6 | 28.1 | 31.6 | 36.4 |
| 4.5-5.0 | - | 50.8 | 51.7 | 56.3 | 57.1 | 54.0 | 53.4 | 49.7 | 48.9 | 44.9 | 48.4 | 44.7 | 43.1 | 40.0 | 35.5 | 33.1 | 28.7 | 26.2 | 31.5 | 36.5 |
| 5.5-6.0 (High) | - | 51.3 | 51.8 | 59.1 | 54.3 | 55.0 | 54.8 | 48.5 | 46.1 | 45.5 | 44.5 | 44.5 | 43.5 | 40.6 | 36.3 | 33.3 | 31.9 | 26.8 | 33.4 | 35.7 |
| Race/Ethnicity (2-year average:) ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 50.4 | 53.5 | 55.2 | 54.9 | 54.4 | 50.7 | 49.3 | 47.4 | 47.6 | 47.2 | 45.2 | 43.0 | 40.3 | 37.5 | 33.9 | 30.5 | 31.4 | 35.5 |
| African American | - | - | 40.8 | 42.8 | 41.5 | 40.5 | 39.0 | 36.4 | 38.5 | 37.8 | 35.9 | 33.3 | 28.9 | 25.0 | 21.3 | 17.0 | 14.7 | 14.5 | 16.6 | 23.5 |
| Hispanic | - | - | 49.9 | 49.5 | 48.4 | 48.1 | 46.8 | 42.7 | 42.0 | 43.1 | 43.9 | 42.8 | 38.9 | 35.4 | 30.1 | 26.4 | 29.4 | 30.3 | 28.8 | 31.2 |

TABLE 3 (cont.)
ANY ILLICIT DRUG: ${ }^{\text {a,b }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

Percentage who used in last 12 months
2014-
 $\begin{array}{lllllllllllllllllllll}\text { Approximate weighted } N=15,400 & 14,300 & 15,400 & 15,200 & 13,600 & 12,800 & 12,800 & 12,900 & 14,600 & 14,600 & 14,700 & 14,200 & 14,500 & 14,000 & 13,700 & 14,400 & 14,100 & 13,700 & 12,600 & 12,400 & 12,900\end{array}$

Female

| 41.5 | 43.4 | 44.1 | 45.2 | 45.0 | 43.4 | 43.8 | 43.5 | 41.3 | 41.4 | 42.1 | 37.5 | 38.4 | 38.8 | 39.9 | 41.4 | 43.2 | $43.5 \ddagger$ | 43.2 | 39.8 | 39.7 | -0.2 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

College Plans:
None or under 4 years
Complete 4 years
Region:
Northeast
Midwest
South
West
Population Density:
Large MSA
Other MSA
Non-MSA
Parental Education: ${ }^{\text {c }}$
1.0-2.0 (Low)
2.5-3.0
3.5-4.0
4.5-5.0
5.5-6.0 (High)

| 35.8 | 36.2 | 40.0 | 37.2 | 38.9 | 38.0 | 38.4 | 37.8 | 36.7 | 35.9 | 34.5 | 35.0 | 33.2 | 34.1 | 33.2 | 34.7 | 36.2 | $35.1 \ddagger$ | 36.5 | 36.9 | 37.2 | +0.3 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


|  | 44.1 | 46.2 | 48.8 | 47.3 | 47.9 | 45.1 | 46.2 | 46.2 | 46.8 | 44.4 | 46.5 | 46.1 | 43.7 | 46.0 | 42.7 | 46.5 | 46.6 | $44.3 \ddagger$ | 47.5 | 44.5 | 42.5 | -1.9 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Race/Ethnicity (2-year average): d
White
African American
Hispanic
ic

| 39.0 | 40.8 | 42.8 | 44.0 | 43.3 | 42.8 | 43.1 | 43.6 | 42.8 | 42.0 | 41.6 | 40.0 | 38.5 | 38.7 | 38.7 | 38.8 | 40.2 | 40.3 | $39.3 \ddagger$ | 38.9 | 38.5 | -0.4 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 29.6 | 32.4 | 33.0 | 32.3 | 32.8 | 32.7 | 31.7 | 30.4 | 28.3 | 27.7 | 29.0 | 30.0 | 28.7 | 28.6 | 30.4 | 33.1 | 34.8 | 35.0 | $37.7 \ddagger$ | 39.6 | 36.3 | -3.4 s |
| 35.5 | 38.0 | 41.2 | 41.9 | 42.5 | 44.8 | 41.8 | 39.0 | 35.8 | 34.4 | 34.5 | 34.2 | 32.2 | 31.4 | 32.6 | 34.5 | 37.5 | 40.5 | $42.2 \ddagger$ | 39.9 | 38.6 | -1.3 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' $\ddagger$ ' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: ' $\mathrm{s}=.05$, ss $=.01$, 'sss $=.001$.

- ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. The 2013 data are based on half the forms; N is one half of N indicated. Beginning in 2014 data are based on all forms. See the amphetamine notes for details of the changes.
${ }^{\text {a }}$ Use of any illicit drug includes any use of marijuana, LSD, other hallucinogens, crack, other cocaine, or heroin; or any use of narcotics other than heroin, amphetamines, sedatives (barbiturates), methaqualone (excluded since 1990), or tranquilizers not under a doctor's orders.
${ }^{\mathrm{b}}$ Beginning 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.
${ }^{\text {c }}$ Parental education is an average score of mother's education and father's education. See appendix $B$ for details.
${ }^{\mathrm{d}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.


# TABLE 4 

## ANY ILLICIT DRUG OTHER THAN MARIJUANA：${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 8

Percentage who used in last 12 months
2014－



| Total | 8.4 | 9.3 | 10.4 | 11.3 | 12.6 | 13.1 | 11.8 | 11.0 | 10.5 | $10.2 \ddagger$ | 10.8 | 8.8 | 8.8 | 7.9 | 8.1 | 7.7 | 7.0 | 7.4 | 7.0 | 7.1 | 6.4 | $5.5 \ddagger$ | 6.3 | 6.4 | 6.3 | －0．1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 8.0 | 8.0 | 9.2 | 10.1 | 11.5 | 11.0 | 10.8 | 9.6 | 9.7 | 9．1才 | 10.0 | 8.1 | 7.9 | 7.0 | 6.6 | 6.5 | 5.9 | 6.0 | 6.6 | 6.4 | 6.1 | $4.8 \ddagger$ | 5.5 | 5.3 | 5.1 | －0．2 |
| Female | 8.8 | 10.4 | 11.5 | 12.3 | 13.5 | 14.7 | 12.6 | 12.1 | 11.2 | 10．9\＃ | 11.2 | 9.3 | 9.4 | 8.8 | 9.3 | 8.7 | 8.0 | 8.7 | 7.3 | 7.7 | 6.5 | $6.0 \ddagger$ | 6.9 | 7.1 | 7.4 | ＋0．3 |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 16.3 | 18.5 | 21.3 | 21.2 | 25.3 | 23.0 | 22.1 | 23.8 | 23.4 | 22．7 $\ddagger$ | 21.5 | 19.7 | 20.0 | 18.0 | 18.2 | 17.7 | 18.1 | 20.3 | 18.2 | 16.4 | 17.2 | $13.0 \ddagger$ | 14.6 | 14.7 | 11.0 | －3．7 |
| Complete 4 years | 7.2 | 8.0 | 8.9 | 9.9 | 10.9 | 11.6 | 10.6 | 9.4 | 9.0 | 8．7才 | 9.5 | 7.6 | 7.5 | 6.9 | 7.0 | 6.7 | 6.0 | 6.3 | 6.0 | 6.3 | 5.5 | $4.9 \ddagger$ | 5.7 | 5.7 | 5.9 | ＋0．2 |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 6.8 | 6.6 | 8.2 | 10.3 | 10.7 | 11.3 | 9.5 | 8.5 | 8.5 | 8．0才 | 9.5 | 5.8 | 7.1 | 5.9 | 5.8 | 4.4 | 4.4 | 5.2 | 5.0 | 4.6 | 4.4 | 4．1才 | 4.0 | 4.3 | 5.3 | ＋1．0 |
| Midwest | 8.6 | 10.4 | 9.4 | 10.2 | 14.0 | 14.3 | 12.5 | 10.5 | 11.9 | $11.2 \ddagger$ | 9.9 | 8.7 | 8.7 | 7.7 | 8.1 | 7.1 | 7.4 | 7.6 | 6.7 | 7.0 | 6.0 | 3．7才 | 5.4 | 5.6 | 5.9 | ＋0．3 |
| South | 8.6 | 9.7 | 11.0 | 11.7 | 12.5 | 12.6 | 11.8 | 12.5 | 11.2 | 10．3 $\ddagger$ | 12.4 | 10.6 | 10.0 | 9.0 | 9.5 | 9.8 | 7.8 | 8.8 | 8.4 | 8.3 | 6.7 | 7．3才 | 8.2 | 7.1 | 6.7 | －0．3 |
| West | 9.3 | 9.8 | 13.4 | 12.7 | 12.7 | 14.0 | 13.0 | 11.1 | 9.3 | 10．5 $\ddagger$ | 10.1 | 8.4 | 7.9 | 8.2 | 7.7 | 7.4 | 6.9 | 6.7 | 6.3 | 7.0 | 7.8 | $5.4 \ddagger$ | 5.9 | 7.5 | 6.6 | －0．9 |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 8.0 | 8.1 | 8.8 | 9.8 | 8.7 | 12.3 | 9.9 | 8.9 | 8.4 | 8．5才 | 9.7 | 7.4 | 7.1 | 6.9 | 7.1 | 6.6 | 6.1 | 6.8 | 5.5 | 5.7 | 5.7 | 5．1才 | 5.7 | 5.7 | 5.8 | ＋0．1 |
| Other MSA | 8.6 | 10.4 | 11.8 | 12.5 | 13.5 | 14.1 | 12.2 | 11.2 | 10.7 | 10．1才 | 11.8 | 9.2 | 8.7 | 8.5 | 8.8 | 8.0 | 7.6 | 7.7 | 7.8 | 8.0 | 7.0 | 6．1才 | 6.5 | 6.9 | 7.1 | ＋0．3 |
| Non－MSA | 8.6 | 8.9 | 9.8 | 9.8 | 13.2 | 12.1 | 13.0 | 12.8 | 12.8 | $12.3 \ddagger$ | 10.3 | 9.8 | 11.0 | 8.0 | 8.1 | 8.8 | 7.1 | 7.6 | 7.1 | 6.9 | 6.0 | $5.0 \ddagger$ | 6.9 | 6.4 | 5.1 | －1．3 |
| Parental Education：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 12.9 | 12.9 | 14.4 | 15.6 | 18.0 | 15.5 | 14.8 | 17.3 | 16.0 | 15．8 $\ddagger$ | 14.3 | 13.0 | 14.1 | 15.2 | 14.3 | 12.3 | 11.9 | 13.6 | 12.4 | 11.5 | 10.7 | $8.3 \ddagger$ | 10.6 | 9.4 | 9.8 | ＋0．4 |
| 2．5－3．0 | 8.5 | 10.1 | 11.8 | 12.4 | 14.2 | 13.9 | 12.9 | 12.2 | 12.1 | 12．2 $\ddagger$ | 13.2 | 10.9 | 10.9 | 8.8 | 10.3 | 9.4 | 8.3 | 9.7 | 8.7 | 8.8 | 9.1 | $7.2 \ddagger$ | 7.1 | 7.6 | 7.0 | －0．6 |
| 3．5－4．0 | 8.7 | 10.1 | 10.6 | 11.8 | 14.2 | 14.5 | 12.5 | 11.2 | 11.3 | 10．6 $\ddagger$ | 11.7 | 9.0 | 9.0 | 8.4 | 9.0 | 8.4 | 7.8 | 8.0 | 7.4 | 7.3 | 7.0 | 6．5才 | 8.2 | 7.0 | 6.8 | －0．3 |
| 4．5－5．0 | 7.1 | 7.5 | 9.1 | 9.5 | 9.7 | 12.0 | 10.6 | 9.4 | 8.5 | 7．7才 | 8.9 | 7.6 | 6.7 | 6.8 | 5.7 | 6.0 | 4.7 | 5.4 | 5.4 | 6.0 | 4.6 | $3.5 \ddagger$ | 5.2 | 4.9 | 5.0 | ＋0．2 |
| 5．5－6．0（High） | 7.8 | 8.0 | 8.2 | 9.4 | 10.1 | 11.7 | 10.3 | 9.5 | 8.3 | $8.4 \ddagger$ | 8.0 | 6.5 | 6.8 | 5.9 | 5.3 | 6.2 | 5.5 | 5.7 | 5.1 | 4.7 | 4.3 | 4．4 $\ddagger$ | 4.0 | 5.4 | 5.1 | －0．4 |
| Race／Ethnicity（2－year average）：${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | － | 9.0 | 10.0 | 10.8 | 12.6 | 13.9 | 13.5 | 12.5 | 11.5 | 11.1 | 10．6 $\ddagger$ | $10.3{ }^{\text {e }}$ | 9.3 | 8.7 | 8.1 | 8.1 | 7.6 | 7.6 | 7.5 | 7.2 | 6.7 | 5.6 | 4．9才 | 5.4 | 5.7 | ＋0．3 |
| African American | － | 4.9 | 5.0 | 5.9 | 5.7 | 5.3 | 4.7 | 4.0 | 4.1 | 3.8 | $3.9 \ddagger$ | $4.4{ }^{\text {e }}$ | 4.4 | 4.4 | 4.2 | 3.9 | 3.3 | 3.4 | 4.1 | 4.0 | 3.8 | 3.9 | 4．0才 | 5.2 | 5.1 | －0．1 |
| Hispanic | － | 12.2 | 13.7 | 15.2 | 15.3 | 14.7 | 13.6 | 13.5 | 14.5 | 13.9 | $12.2 \ddagger$ | $11.9{ }^{\text {e }}$ | 10.8 | 10.4 | 9.9 | 9.2 | 8.6 | 8.4 | 8.6 | 8.7 | 8.7 | 8.1 | $7.4 \ddagger$ | 7.4 | 7.1 | －0．2 |

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

 the forms； N is one half of N indicated．Beginning in 2014 data are based on all forms．See the amphetamine notes for details of the changes．
 excluded because 8th and 10th graders appear to overreport their use（perhaps because they include the use of nonprescription drugs in their answers）．

 parallel manner．
${ }^{\text {c Parental eduction }}$ is an average score of mother＇s education and father＇s education．See appendix B for details．
${ }^{4}$ To derive percentages for each racial subgroup，data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates．See appendix B for details on how race／ethnicity is defined．
${ }^{e}$ Due to changes in the question wording in half of the questionnaire forms in 2001 ，the 2002 entry comprises half of the 2001 sample data double－weighted（the half with the new version of the question）and all of the 2002 sample data．

## TABLE 5

## ANY ILLICIT DRUG OTHER THAN MARIJUANA：${ }^{\text {a }}$ Trends in Annual Prevalence of Use <br> by Subgroups in Grade 10

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1991 | 1992 | $\underline{1993}$ | 1994 | $\underline{1995}$ | 1996 | 1997 | 1998 | $\underline{1999}$ | $\underline{2000}$ | $2001^{\text {b }}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | change |
| Approximate weighted $N=$ | 14，800 | 14，800 | 15，300 | 15，800 | 17，000 | 15，600 | 15，500 | 15，000 | 13，600 | 14，300 | 14，000 | 14，300 | 15，800 | 16，400 | 16，200 | 16，200 | 16，100 | 15，100 | 15，900 | 15，200 | 14，900 | 15，000 | 12，900 | 13，000 | 15，600 |  |
| Total | 12.2 | 12.3 | 13.9 | 15.2 | 17.5 | 18.4 | 18.2 | 16.6 | 16.7 | 16．7才 | 17.9 | 15.7 | 13.8 | 13.5 | 12.9 | 12.7 | 13.1 | 11.3 | 12.2 | 12.1 | 11.2 | 10．8 $\ddagger$ | 11.2 | 11.2 | 10.5 | －0．7 |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 11.2 | 11.1 | 13.4 | 14.1 | 15.8 | 17.2 | 17.2 | 15.6 | 15.9 | 16．7才 | 18.3 | 15.1 | 13.0 | 12.7 | 12.0 | 12.0 | 12.9 | 10.9 | 11.8 | 12.3 | 12.2 | $11.3 \ddagger$ | 12.5 | 10.4 | 10.0 | －0．4 |
| Female | 13.1 | 13.2 | 14.3 | 16.0 | 18.9 | 19.6 | 19.1 | 17.5 | 17.3 | 16．6 $\ddagger$ | 17.4 | 16.4 | 14.3 | 14.2 | 13.6 | 13.1 | 13.2 | 11.5 | 12.3 | 11.8 | 10.0 | $10.4 \ddagger$ | 9.9 | 11.8 | 10.7 | －1．2 |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 19.6 | 20.2 | 23.1 | 24.0 | 27.5 | 29.5 | 29.6 | 27.8 | 27.3 | 27．7 $\ddagger$ | 32.1 | 27.1 | 23.8 | 25.3 | 24.0 | 24.7 | 25.0 | 22.9 | 25.4 | 24.5 | 24.1 | $24.5 \ddagger$ | 17.2 | 21.9 | 19.7 | －2．2 |
| Complete 4 years | 10.7 | 10.5 | 12.0 | 13.3 | 15.7 | 16.5 | 16.3 | 14.6 | 15.0 | 15．0才 | 15.5 | 14.0 | 12.1 | 11.9 | 11.4 | 11.1 | 11.5 | 9.8 | 10.7 | 10.7 | 9.7 | $9.4 \ddagger$ | 10.5 | 10.1 | 9.5 | －0．6 |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 10.6 | 9.6 | 12.8 | 13.7 | 14.1 | 17.2 | 16.0 | 17.2 | 18.2 | 14．7才 | 16.2 | 13.4 | 11.7 | 13.7 | 13.0 | 10.4 | 11.3 | 8.2 | 9.0 | 9.8 | 9.4 | 9．3才 | 8.5 | 9.8 | 9.9 | ＋0．1 |
| Midwest | 13.2 | 12.9 | 12.8 | 14.8 | 19.0 | 20.0 | 16.2 | 14.4 | 16.1 | 15．8才 | 16.5 | 15.3 | 13.1 | 12.0 | 12.2 | 12.7 | 13.4 | 11.8 | 11.5 | 12.0 | 10.8 | 10．4 $\ddagger$ | 11.0 | 11.8 | 9.0 | －2．9 ss |
| South | 11.9 | 12.2 | 14.7 | 15.3 | 18.4 | 18.6 | 20.8 | 18.3 | 16.8 | 17．5 $\ddagger$ | 19.5 | 16.8 | 15.7 | 14.8 | 13.9 | 13.7 | 13.3 | 12.6 | 13.6 | 12.4 | 12.2 | $12.4 \ddagger$ | 12.7 | 11.9 | 11.3 | －0．6 |
| West | 12.7 | 14.1 | 15.6 | 17.2 | 17.2 | 17.4 | 18.7 | 15.8 | 15.7 | 18．5 $\ddagger$ | 19.0 | 16.7 | 13.8 | 13.5 | 12.0 | 13.3 | 13.8 | 11.5 | 13.7 | 14.1 | 11.7 | $10.3 \ddagger$ | 11.6 | 10.9 | 11.3 | ＋0．4 |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 11.8 | 11.4 | 12.2 | 13.1 | 13.5 | 16.8 | 16.3 | 14.6 | 15.0 | $17.2 \ddagger$ | 15.6 | 14.3 | 10.8 | 10.4 | 10.9 | 11.5 | 12.0 | 9.9 | 10.7 | 11.2 | 10.4 | 10．0才 | 10.4 | 10.2 | 10.3 | ＋0．1 |
| Other MSA | 12.3 | 12.3 | 14.1 | 16.1 | 18.5 | 19.5 | 18.0 | 16.6 | 17.3 | 15．6才 | 17.4 | 16.5 | 14.2 | 15.1 | 13.2 | 12.9 | 13.4 | 12.1 | 13.4 | 12.6 | 11.2 | 10．9\＃ | 11.9 | 11.3 | 10.6 | －0．8 |
| Non－MSA | 12.4 | 13.1 | 15.0 | 14.6 | 17.6 | 18.3 | 20.8 | 18.9 | 17.5 | 18．1才 | 21.5 | 16.1 | 17.2 | 14.5 | 14.7 | 14.1 | 14.0 | 11.8 | 11.7 | 12.7 | 12.6 | $11.9 \ddagger$ | 10.6 | 12.7 | 10.6 | －2．2 |
| Parental Education：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 14.4 | 16.6 | 18.1 | 17.1 | 20.8 | 22.7 | 19.1 | 21.5 | 19.2 | $20.4 \ddagger$ | 19.6 | 21.0 | 19.1 | 16.5 | 15.9 | 16.0 | 15.6 | 15.2 | 18.3 | 15.8 | 13.3 | $16.8 \ddagger$ | 15.2 | 14.1 | 15.1 | ＋1．0 |
| 2．5－3．0 | 13.7 | 12.5 | 14.6 | 16.3 | 19.7 | 19.4 | 19.9 | 19.1 | 19.1 | 19．4才 | 20.3 | 18.3 | 16.7 | 15.6 | 14.4 | 14.9 | 15.2 | 13.2 | 13.6 | 14.8 | 13.1 | 11．7 $\ddagger$ | 13.5 | 12.4 | 12.8 | ＋0．4 |
| 3．5－4．0 | 12.1 | 12.7 | 14.8 | 15.9 | 18.3 | 19.9 | 19.8 | 16.4 | 16.5 | 17．4 $\ddagger$ | 19.7 | 16.1 | 14.5 | 14.6 | 13.7 | 13.4 | 14.2 | 12.7 | 13.0 | 12.9 | 12.0 | 10．9\＃ | 11.6 | 13.2 | 12.3 | －0．9 |
| 4．5－5．0 | 11.0 | 10.9 | 11.7 | 13.3 | 15.9 | 16.6 | 16.5 | 14.1 | 15.4 | 14．5才 | 15.6 | 13.7 | 11.2 | 11.6 | 11.5 | 10.7 | 11.6 | 9.0 | 9.9 | 10.2 | 9.6 | 9．7 $\ddagger$ | 9.9 | 9.2 | 8.9 | －0．2 |
| 5．5－6．0（High） | 11.6 | 10.7 | 12.2 | 12.8 | 13.4 | 15.4 | 15.4 | 14.4 | 15.6 | 14．5 $\ddagger$ | 14.6 | 12.2 | 10.5 | 11.0 | 10.8 | 11.1 | 9.9 | 8.6 | 10.6 | 9.4 | 9.2 | 9．1才 | 9.1 | 9.0 | 7.4 | －1．6 |
| Race／Ethnicity（2－year average）：${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | － | 13.7 | 14.4 | 15.4 | 17.7 | 20.0 | 20.5 | 19.7 | 18.7 | 18.6 | $19.2 \ddagger$ | $18.9{ }^{\text {e }}$ | 17.2 | 15.7 | 14.9 | 14.4 | 14.5 | 13.8 | 12.9 | 13.0 | 12.5 | 11.5 | $11.2 \ddagger$ | 11.5 | 10.9 | －0．6 |
| African American | － | 4.3 | 4.6 | 5.4 | 5.4 | 4.5 | 4.8 | 4.7 | 4.5 | 4.2 | 4．7 $\ddagger$ | $5.7{ }^{\text {e }}$ | 4.7 | 4.6 | 4.8 | 4.9 | 4.2 | 4.1 | 4.3 | 5.0 | 5.5 | 5.8 | $6.5 \ddagger$ | 8.4 | 7.8 | －0．6 |
| Hispanic | － | 11.8 | 13.7 | 16.1 | 16.9 | 18.8 | 19.1 | 17.5 | 17.9 | 17.8 | $15.8 \ddagger$ | $15.7{ }^{\text {e }}$ | 15.2 | 15.1 | 14.9 | 13.0 | 11.8 | 12.4 | 13.2 | 13.5 | 12.9 | 12.6 | 12．4 $\ddagger$ | 11.7 | 11.1 | －0．6 |
| Source．The Monitoring the Future study，the University of Michigan． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  <br>  the forms； N is one half of N indicated．Beginning in 2014 data are based on all forms．See the amphetamine notes for details of the changes． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  <br>  treated in a parallel manner． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| e to changes in the question wordin | g in half | of the que | stionnaire | forms in | 2001，the | 2002 entry | try compris | ises half of | of the 2001 | 1 sample | data doub | ble－weight | ted（the h | half with the | enew ver | rsion of the | equestion | n）and all | of the 2002 | 02 sample | data． |  |  |  |  |  |

TABLE 6
ANY ILLICIT DRUG OTHER THAN MARIJUANA: ${ }^{\text {a,b }}$

## Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |
| Total | 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 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 25.9 | 25.7 | 26.3 | 27.9 | 29.4 | 30.2 | 32.8 | 31.0 | 28.9 | 28.2 | 27.9 | 26.2 | 24.3 | 22.2 | 21.0 | 19.2 | 17.0 | 15.5 | 17.8 | 18.5 |
| Female | 26.2 | 24.4 | 25.3 | 25.7 | 26.3 | 30.0 | 34.3 | 28.3 | 27.3 | 26.9 | 26.2 | 24.8 | 23.3 | 19.3 | 18.5 | 16.0 | 14.8 | 13.8 | 15.8 | 16.9 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 28.7 | 30.1 | 30.0 | 31.8 | 35.5 | 38.3 | 34.0 | 32.3 | 32.9 | 31.6 | 31.3 | 28.8 | 24.5 | 25.5 | 23.1 | 20.1 | 19.5 | 19.8 | 22.9 |
| Complete 4 years | - | 20.9 | 20.8 | 22.7 | 23.5 | 25.5 | 30.1 | 26.0 | 24.7 | 23.3 | 24.1 | 22.2 | 21.3 | 19.0 | 17.2 | 15.2 | 14.3 | 13.0 | 15.9 | 16.0 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 26.0 | 26.1 | 27.8 | 30.7 | 32.0 | 32.1 | 38.0 | 33.5 | 31.2 | 33.8 | 32.9 | 29.5 | 25.5 | 20.2 | 19.2 | 17.1 | 15.6 | 14.7 | 18.6 | 17.2 |
| Midwest | 29.2 | 26.1 | 27.7 | 26.8 | 27.6 | 30.9 | 36.1 | 31.1 | 28.6 | 26.1 | 25.9 | 25.1 | 22.7 | 20.3 | 21.5 | 18.0 | 17.4 | 15.5 | 16.4 | 20.1 |
| South | 22.5 | 23.4 | 22.9 | 24.0 | 23.2 | 25.8 | 26.1 | 24.7 | 23.8 | 24.2 | 21.0 | 20.6 | 21.1 | 20.0 | 18.1 | 16.9 | 14.4 | 14.0 | 16.0 | 17.3 |
| West | 28.2 | 26.6 | 26.0 | 28.8 | 33.3 | 35.2 | 38.7 | 32.7 | 33.0 | 31.3 | 33.0 | 31.6 | 29.5 | 24.8 | 22.3 | 20.4 | 17.9 | 15.8 | 18.5 | 17.3 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 30.3 | 27.5 | 27.1 | 30.2 | 32.1 | 34.6 | 38.3 | 33.8 | 31.5 | 30.5 | 30.4 | 28.3 | 24.5 | 20.7 | 16.9 | 16.0 | 14.2 | 13.5 | 15.1 | 16.7 |
| Other MSA | 26.3 | 25.8 | 26.8 | 27.3 | 28.7 | 30.1 | 33.3 | 30.0 | 29.7 | 27.8 | 26.9 | 26.4 | 24.5 | 22.7 | 20.9 | 18.5 | 17.9 | 14.9 | 18.2 | 19.2 |
| Non-MSA | 23.4 | 23.3 | 24.2 | 24.2 | 24.7 | 27.5 | 31.4 | 27.0 | 24.4 | 26.2 | 25.5 | 23.1 | 23.0 | 18.4 | 21.1 | 18.4 | 14.9 | 16.1 | 16.8 | 17.2 |
| Parental Education: ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 23.2 | 23.2 | 24.7 | 25.2 | 28.2 | 29.2 | 25.7 | 25.6 | 27.3 | 25.8 | 23.2 | 21.5 | 19.7 | 18.2 | 15.2 | 17.4 | 14.9 | 15.6 | 17.8 |
| 2.5-3.0 | - | 25.6 | 27.0 | 26.4 | 27.6 | 30.7 | 33.5 | 30.4 | 28.1 | 28.2 | 27.4 | 27.0 | 24.2 | 20.5 | 20.0 | 17.9 | 16.8 | 15.0 | 16.1 | 18.5 |
| 3.5-4.0 | - | 26.1 | 26.2 | 27.8 | 29.2 | 30.7 | 34.7 | 30.9 | 28.6 | 29.3 | 28.9 | 26.6 | 24.7 | 20.5 | 21.4 | 19.1 | 16.3 | 15.0 | 17.8 | 17.6 |
| 4.5-5.0 | - | 27.2 | 25.9 | 27.3 | 28.7 | 29.9 | 34.8 | 29.4 | 30.0 | 26.2 | 27.1 | 24.9 | 23.8 | 21.7 | 19.3 | 17.5 | 14.6 | 14.3 | 17.5 | 18.4 |
| 5.5-6.0 (High) | - | 25.6 | 24.8 | 28.6 | 30.4 | 30.8 | 36.7 | 31.3 | 29.0 | 26.2 | 23.8 | 23.8 | 24.9 | 22.0 | 19.6 | 17.2 | 14.9 | 14.3 | 17.6 | 16.5 |
| $\text { Race/Ethnicity (2-year average): }{ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 26.6 | 27.7 | 28.8 | 30.6 | 34.5 | 32.1 | 31.2 | 30.2 | 29.6 | 28.2 | 26.6 | 24.4 | 22.5 | 21.0 | 18.7 | 17.1 | 17.9 | 19.4 |
| African American | - | - | 14.2 | 13.4 | 13.0 | 13.8 | 13.2 | 14.5 | 15.2 | 12.9 | 12.0 | 12.1 | 11.1 | 10.3 | 8.6 | 6.5 | 5.7 | 5.3 | 4.8 | 6.1 |
| Hispanic | - | - | 23.8 | 23.5 | 23.3 | 24.7 | 27.6 | 25.5 | 25.2 | 26.2 | 27.2 | 26.2 | 23.0 | 20.5 | 17.7 | 15.6 | 15.8 | 15.1 | 15.6 | 16.5 |

(Table continued on next page.)

TABLE 6 (cont.)

## ANY ILLICIT DRUG OTHER THAN MARIJUANA: ${ }^{\text {a,b }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

$\qquad$


Total $\begin{array}{llllllllllllllllllllll}19.4 & 19.8 & 20.7 & 20.2 & 20.7 & 20.4 \ddagger & 21.6 & 20.9 & 19.8 & 20.5 & 19.7 & 19.2 & 18.5 & 18.3 & 17.0 & 17.3 & 17.6 & 17.0 \ddagger & 17.8 & 15.9 & 15.2 & -0.7\end{array}$ Gender:
Male $\begin{array}{lllllllllllllllllllllll} & 21.7 & 21.7 & 21.7 & 21.7 & 22.5 & 21.5 \ddagger & 23.3 & 22.0 & 21.1 & 21.5 & 21.4 & 19.7 & 20.0 & 19.9 & 18.8 & 19.3 & 19.1 & 18.4 & 18.9 & 16.9 & 15.7 & -1.2\end{array}$
Female $\begin{array}{lllllllllllllllllllllll}17.3 & 16.8 & 18.8 & 18.0 & 18.5 & 18.6 \ddagger & 19.0 & 19.0 & 17.9 & 18.7 & 17.5 & 18.3 & 16.7 & 16.2 & 14.9 & 15.0 & 15.5 & 14.9 \ddagger & 15.9 & 14.2 & 14.1 & -0.2\end{array}$

None or under 4 years
Complete 4 years
Region:
Northeast
Midwest
South
West
Population Density:
Large MSA
Other MSA
Non-MSA
Parental Education: ${ }^{\text {c }}$
1.0-2.0 (Low)
2.5-3.0
3.5-4.0
4.5-5.0

|  | 23.9 | 24.2 | 25.8 | 26.5 | 24.4 | $24.7 \ddagger$ | 24.5 | 27.2 | 26.5 | 26.0 | 25.3 | 25.4 | 26.0 | 25.0 | 22.1 | 23.6 | 25.1 | $19.4 \ddagger$ | 24.4 | 19.8 | 17.7 | -2.1 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$\begin{array}{llllllllllllllllllllllll}17.5 & 17.9 & 18.4 & 17.8 & 19.4 & 18.5 \ddagger & 19.9 & 19.0 & 17.4 & 18.4 & 18.0 & 17.4 & 16.7 & 16.5 & 15.7 & 15.7 & 15.8 & 16.1 \ddagger & 16.2 & 14.5 & 14.3 & -0.3\end{array}$
$\begin{array}{lllllllllllllllllllllllllll}20.2 & 22.9 & 24.1 & 20.7 & 19.5 & 21.7 \ddagger & 22.4 & 21.5 & 19.3 & 20.4 & 18.0 & 20.3 & 19.4 & 18.9 & 16.8 & 17.6 & 16.4 & 15.1 \ddagger & 16.7 & 13.9 & 13.1 & -0.8 \\ 19.1 & 19.2 & 18.9 & 19.8 & 20.9 & 18.9 \ddagger & 24.0 & 19.9 & 18.7 & 19.1 & 21.4 & 17.9 & 18.4 & 16.8 & 19.1 & 16.9 & 17.5 & 17.2 \ddagger & 18.9 & 16.2 & 15.0 & -1.2\end{array}$
$\begin{array}{llllllllllllllllllllll}19.1 & 19.2 & 18.9 & 19.8 & 20.9 & 18.9 \neq & 24.0 & 19.9 & 18.7 & 19.1 & 21.4 & 17.9 & 18.4 & 16.8 & 19.1 & 16.9 & 17.5 & 17.2 \ddagger & 18.9 & 16.2 & 15.0 & -1.2 \\ 19.0 & 18.6 & 19.8 & 20.3 & 21.2 & 19.0 \ddagger & 18.6 & 21.3 & 19.4 & 20.8 & 20.5 & 19.7 & 18.8 & 19.1 & 16.4 & 17.4 & 16.2 & 16.0 \ddagger & 17.5 & 17.2 & 15.2 & -2.0\end{array}$
$\begin{array}{llllllllllllllllllllllllll}19.9 & 19.2 & 20.9 & 20.0 & 20.8 & 23.2 \ddagger & 22.6 & 21.1 & 22.4 & 21.9 & 18.0 & 19.1 & 17.3 & 18.1 & 15.6 & 17.4 & 20.6 & 19.5 \ddagger & 17.9 & 15.1 & 16.9 & +1.8\end{array}$
$\begin{array}{llllllllllllllllllllllllllll} & 18.2 & 18.9 & 18.6 & 19.0 & 17.6 & 19.4 \ddagger & 23.6 & 20.6 & 15.9 & 18.0 & 18.6 & 20.1 & 18.4 & 16.9 & 15.9 & 17.3 & 16.6 & 18.3 \ddagger & 18.1 & 14.6 & 14.8 & +0.2 \\ 19.2 & 20.2 & 21.5 & 20.4 & 21.6 & 20.9 \ddagger & 21.2 & 21.6 & 22.0 & 22.3 & 20.6 & 18.7 & 18.1 & 18.2 & 17.4 & 17.7 & 18.6 & 17.2 \ddagger & 18.8 & 17.7 & 15.9 & -1.8\end{array}$
$\begin{array}{llllllllllllllllllllllllllll}18.7 & 19.8 & 21.2 & 21.3 & 22.4 & 20.7 \ddagger & 20.3 & 20.2 & 20.9 & 19.7 & 19.3 & 18.9 & 19.5 & 19.8 & 17.4 & 16.3 & 16.7 & 14.7 \ddagger & 15.0 & 13.0 & 14.1 & +1.1\end{array}$
$\begin{array}{llllllllllllllllllllllllllll}19.4 & 16.9 & 19.9 & 20.0 & 22.2 & 20.0 \ddagger & 17.3 & 17.8 & 19.4 & 18.7 & 14.8 & 19.7 & 16.7 & 16.4 & 14.7 & 14.9 & 16.0 & 16.5 \ddagger & 15.9 & 14.7 & 16.5 & +1.8 \\ 10.4 & 19.7 & 10.4 & 0.1 & 21.0 & 10.9 & 20.9 & \end{array}$
$\begin{array}{lllllllllllllllllllllllllll}19.4 & 19.7 & 19.4 & 20.1 & 21.0 & 19.9 \ddagger & 20.9 & 20.3 & 19.6 & 20.0 & 20.5 & 19.4 & 19.7 & 17.7 & 17.3 & 17.7 & 16.6 & 18.0 \ddagger & 18.6 & 16.8 & 14.4 & -2.3 \\ 19.2 & 19.8 & 20.4 & 21.0 & 21.9 & 20.5 \ddagger & 24.5 & 22.0 & 21.7 & 23.0 & 21.5 & 20.2 & 18.4 & 18.7 & 17.6 & 18.4 & 18.8 & 17.6 \ddagger & 18.3 & 15.7 & 15.8 & +0.1\end{array}$
$\begin{array}{lllllllllllllllllllllllllll} & 19.4 & 19.3 & 21.0 & 19.1 & 19.3 & 20.1 \ddagger & 20.1 & 21.2 & 18.5 & 19.7 & 19.7 & 18.6 & 18.5 & 18.2 & 17.8 & 16.8 & 16.6 & 16.8 \ddagger & 18.7 & 15.1 & 14.7 & -0.4 \\ 5.5-6.0 \text { (High) } & 18.3 & 20.2 & 21.7 & 18.9 & 19.4 & 20.3 \ddagger & 18.7 & 19.8 & 17.0 & 17.6 & 17.5 & 18.0 & 17.4 & 17.9 & 15.4 & 15.7 & 18.3 & 15.2 \ddagger & 16.3 & 16.8 & 16.0 & -0.8\end{array}$
Race/Ethnicity (2-year average): d

|  | 20.3 | 21.2 | 22.3 | 23.1 | 22.9 | 22.7 | $23.0 \ddagger$ | $24.1^{\dagger}$ | 23.0 | 22.8 | 22.7 | 22.0 | 21.6 | 21.5 | 20.5 | 19.9 | 20.0 | 19.6 | $18.7 \ddagger$ | 17.6 | 16.1 | -1.5 s |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| White | 6.9 | 6.0 | 6.4 | 7.1 | 6.8 | 6.4 | $6.3 \ddagger$ | $6.0^{\dagger}$ | 6.3 | 6.5 | 7.1 | 7.2 | 7.0 | 7.0 | 6.8 | 8.3 | 8.7 | 7.6 | $9.5 \ddagger$ | 13.0 | 11.2 | -1.8 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' $\ddagger$ ' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: $\mathrm{s}=.05$, $\mathrm{ss}=.01$, sss $=.001$.

- 'indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B
for definition of variables in table. The 2013 data are based on half the forms; N is one half of N indicated. Beginning in 2014 data are based on all forms. See the amphetamine notes for details of the changes
${ }^{\text {a }}$ Use of any illicit drug other than marijuana includes any use of LSD, other hallucinogens, crack, other cocaine, or heroin; or any use of narcotics other than heroin, amphetamines, sedatives (barbiturates), methaqualone (excluded since 1990), or tranquilizers not under a doctor's orders.
${ }^{\text {b }}$ Beginning 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. ${ }^{\text {c Parental education is an average score of mother's education and father's education. See appendix B for details. }}$
${ }^{\mathrm{d}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.
${ }^{\text {e }}$ In 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens and shrooms was added to the list of examples. For the tranquilizer list of examples, Miltown was replaced with Xanax. The 2001 data are based on the changed forms only; $N$ is one half of $N$ indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.
'Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

TABLE 7
MARIJUANA: Trends in Lifetime Prevalence of Use by Subgroups in Grade 8

Percentage who ever used
2014



| Total | 10.2 | 11.2 | 12.6 | 16.7 | 19.9 | 23.1 | 22.6 | 22.2 | 22.0 | 20.3 | 20.4 | 19.2 | 17.5 | 16.3 | 16.5 | 15.7 | 14.2 | 14.6 | 15.7 | 17.3 | 16.4 | 15.2 | 16.5 | 15.6 | 15.5 | -0.1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 11.9 | 11.9 | 14.5 | 19.6 | 22.5 | 25.5 | 24.7 | 24.3 | 24.3 | 22.2 | 23.6 | 22.2 | 19.3 | 17.6 | 18.0 | 17.1 | 15.2 | 16.3 | 17.9 | 18.9 | 18.1 | 16.5 | 17.0 | 15.8 | 16.0 | +0.2 |
| Female | 8.3 | 10.3 | 10.8 | 13.7 | 17.2 | 20.5 | 20.2 | 19.6 | 19.8 | 18.1 | 17.2 | 16.2 | 15.6 | 14.9 | 14.8 | 14.0 | 12.8 | 12.7 | 13.4 | 15.8 | 14.1 | 13.6 | 15.6 | 14.7 | 14.6 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 22.9 | 24.5 | 27.9 | 33.1 | 36.2 | 41.6 | 41.8 | 43.5 | 44.1 | 41.2 | 40.8 | 39.8 | 38.0 | 36.9 | 38.5 | 35.4 | 35.3 | 35.0 | 32.2 | 36.8 | 35.5 | 32.9 | 34.3 | 29.2 | 30.0 | +0.8 |
| Complete 4 years | 8.1 | 9.0 | 10.4 | 14.3 | 17.7 | 20.2 | 19.9 | 19.4 | 19.1 | 17.6 | 17.9 | 17.1 | 15.2 | 14.1 | 14.0 | 13.6 | 12.2 | 12.7 | 14.3 | 15.7 | 14.8 | 13.8 | 15.2 | 14.4 | 14.1 | -0.3 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 7.4 | 9.2 | 8.8 | 15.3 | 16.0 | 19.9 | 20.2 | 15.6 | 18.2 | 17.3 | 18.7 | 15.2 | 13.7 | 13.6 | 12.8 | 12.6 | 8.8 | 11.7 | 14.2 | 15.5 | 10.4 | 10.0 | 13.1 | 12.8 | 10.9 | -1.9 |
| Midwest | 9.9 | 9.4 | 11.5 | 15.6 | 21.7 | 23.1 | 21.3 | 23.7 | 24.6 | 21.0 | 18.3 | 17.9 | 16.8 | 15.4 | 17.6 | 15.6 | 13.5 | 16.6 | 15.3 | 15.1 | 13.8 | 12.2 | 13.3 | 14.5 | 16.4 | +1.9 |
| South | 10.8 | 11.8 | 12.5 | 14.9 | 19.4 | 22.1 | 22.7 | 23.9 | 23.0 | 20.5 | 22.4 | 22.1 | 20.0 | 18.0 | 18.5 | 18.4 | 16.6 | 15.8 | 17.2 | 19.9 | 17.8 | 17.6 | 19.4 | 15.8 | 15.9 | +0.1 |
| West | 12.4 | 15.1 | 18.7 | 22.7 | 22.4 | 27.4 | 25.9 | 23.1 | 20.6 | 21.5 | 20.7 | 19.5 | 17.5 | 16.8 | 15.0 | 13.6 | 14.0 | 12.9 | 14.9 | 16.6 | 21.5 | 18.3 | 17.4 | 18.1 | 16.7 | -1.4 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 8.9 | 10.5 | 10.6 | 16.7 | 19.6 | 24.0 | 21.6 | 20.4 | 20.5 | 18.8 | 17.3 | 17.3 | 17.1 | 15.0 | 15.7 | 14.7 | 11.6 | 12.9 | 13.1 | 16.5 | 14.7 | 14.4 | 17.4 | 17.6 | 15.6 | -2.0 |
| Other MSA | 11.4 | 12.6 | 15.0 | 19.8 | 21.2 | 24.6 | 23.2 | 22.9 | 21.2 | 19.4 | 22.3 | 19.7 | 17.1 | 17.0 | 17.1 | 16.2 | 15.3 | 15.9 | 17.1 | 18.3 | 17.8 | 15.8 | 15.0 | 14.7 | 15.9 | +1.2 |
| Non-MSA | 9.3 | 9.4 | 10.1 | 11.0 | 18.1 | 19.1 | 22.4 | 22.7 | 25.6 | 23.8 | 20.3 | 20.7 | 18.9 | 16.7 | 16.3 | 16.2 | 15.4 | 14.2 | 16.3 | 16.3 | 16.1 | 15.3 | 18.2 | 14.3 | 14.1 | -0.2 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 20.6 | 19.9 | 18.6 | 24.9 | 28.7 | 26.6 | 31.6 | 30.6 | 35.1 | 32.7 | 31.8 | 31.2 | 31.1 | 25.7 | 25.3 | 25.6 | 26.6 | 24.5 | 24.1 | 26.2 | 27.8 | 27.8 | 29.1 | 25.2 | 25.3 | +0.1 |
| 2.5-3.0 | 11.9 | 13.6 | 14.6 | 18.1 | 23.0 | 25.9 | 25.7 | 26.0 | 28.3 | 25.0 | 25.3 | 25.5 | 22.2 | 21.7 | 23.0 | 20.8 | 19.8 | 19.7 | 21.2 | 23.1 | 23.0 | 22.2 | 23.4 | 21.8 | 20.5 | -1.3 |
| 3.5-4.0 | 10.1 | 10.4 | 13.3 | 16.8 | 21.4 | 25.2 | 25.0 | 23.9 | 21.7 | 20.7 | 22.0 | 19.8 | 18.3 | 17.0 | 17.5 | 17.2 | 15.5 | 16.0 | 17.2 | 18.9 | 18.1 | 16.7 | 18.6 | 18.0 | 17.3 | -0.7 |
| 4.5-5.0 | 6.6 | 7.9 | 10.0 | 13.8 | 16.3 | 20.1 | 19.8 | 17.9 | 16.2 | 14.8 | 15.3 | 14.9 | 12.7 | 12.7 | 11.7 | 11.1 | 9.2 | 11.0 | 11.4 | 13.3 | 11.7 | 10.6 | 11.6 | 10.4 | 9.6 | -0.8 |
| 5.5-6.0 (High) | 6.7 | 7.3 | 8.7 | 14.1 | 14.9 | 18.8 | 15.5 | 16.8 | 15.2 | 14.6 | 12.8 | 11.8 | 11.3 | 10.5 | 9.8 | 9.3 | 6.5 | 8.3 | 9.7 | 10.3 | 8.6 | 7.6 | 9.4 | 10.0 | 9.4 | -0.7 |
| Race (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 9.9 | 11.0 | 12.9 | 16.6 | 20.5 | 22.0 | 21.1 | 20.0 | 19.0 | 18.5 | 18.0 | 16.6 | 15.1 | 14.6 | 14.1 | 12.9 | 12.5 | 13.3 | 14.4 | 14.3 | 12.7 | 11.7 | 11.4 | 10.9 | -0.5 |
| Black | - | 7.4 | 9.3 | 13.2 | 17.1 | 19.7 | 21.7 | 23.0 | 23.9 | 23.8 | 22.2 | 20.2 | 19.7 | 19.9 | 20.5 | 19.5 | 16.4 | 15.9 | 18.1 | 19.9 | 18.9 | 17.2 | 18.9 | 18.8 | 17.6 | -1.2 |
| Hispanic | - | 19.0 | 20.3 | 23.3 | 26.3 | 27.2 | 28.6 | 29.6 | 29.7 | 27.1 | 26.2 | 27.4 | 26.1 | 23.7 | 20.5 | 19.3 | 19.1 | 18.1 | 18.5 | 20.4 | 21.8 | 22.8 | 22.1 | 21.2 | 20.0 | -1.1 |

Source. The Monitoring the Future Study, the University of Michigan
 is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

## TABLE 8

## MARIJUANA: Trends in Lifetime Prevalence of Use by Subgroups in Grade 10

Percentage who ever used
2014-


Total


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

is due to rounding. See Table S2 for the number of subgroup cases. See appendix $B$ for definition of variables in table.
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 9
MARIJUANA: Trends in Lifetime Prevalence of Use by Subgroups in Grade 12

|  | Percentage who ever used |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | cont.) |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | 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 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 52.7 | 58.9 | 61.9 | 64.4 | 65.0 | 64.4 | 62.5 | 61.5 | 59.9 | 57.9 | 56.6 | 53.3 | 52.0 | 49.8 | 46.6 | 43.6 | 40.3 | 36.3 | 38.9 | 42.8 |  |
| Female | 42.7 | 46.1 | 50.8 | 53.9 | 55.7 | 56.1 | 56.2 | 55.5 | 53.4 | 51.3 | 51.5 | 48.2 | 48.0 | 44.5 | 40.4 | 37.3 | 32.8 | 28.6 | 31.2 | 33.7 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 55.3 | 59.6 | 61.4 | 62.9 | 64.3 | 63.5 | 63.8 | 61.2 | 60.7 | 59.1 | 56.0 | 57.0 | 53.6 | 51.5 | 48.0 | 43.6 | 41.8 | 41.7 | 44.6 |  |
| Complete 4 years | - | 48.7 | 52.0 | 55.5 | 56.8 | 56.8 | 55.9 | 54.0 | 52.2 | 49.7 | 50.2 | 47.5 | 46.4 | 44.0 | 39.7 | 37.2 | 33.8 | 28.8 | 32.7 | 35.6 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 56.3 | 60.7 | 62.5 | 66.7 | 69.8 | 67.4 | 67.8 | 64.6 | 63.7 | 64.0 | 62.2 | 56.8 | 55.7 | 49.6 | 45.4 | 44.5 | 40.4 | 34.5 | 41.1 | 44.3 |  |
| Midwest | 46.9 | 52.1 | 56.0 | 60.6 | 60.9 | 60.2 | 59.9 | 59.8 | 57.0 | 52.3 | 53.8 | 52.0 | 50.1 | 48.0 | 46.8 | 42.6 | 39.3 | 32.1 | 34.5 | 37.3 |  |
| South | 38.8 | 45.7 | 51.4 | 52.4 | 51.6 | 53.6 | 50.8 | 51.1 | 50.8 | 49.1 | 44.5 | 43.7 | 43.6 | 42.4 | 38.2 | 35.4 | 31.2 | 29.9 | 32.9 | 36.1 |  |
| West | 52.5 | 55.9 | 57.1 | 59.0 | 62.1 | 62.9 | 63.2 | 61.7 | 59.2 | 59.8 | 60.4 | 53.8 | 55.1 | 52.0 | 48.4 | 43.0 | 39.3 | 36.8 | 35.7 | 37.7 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 58.1 | 60.1 | 62.5 | 66.2 | 68.5 | 67.9 | 65.9 | 64.0 | 62.3 | 59.3 | 59.2 | 55.8 | 53.2 | 47.8 | 41.4 | 40.8 | 36.1 | 32.5 | 36.5 | 38.6 |  |
| Other MSA | 48.1 | 52.3 | 57.7 | 60.2 | 62.0 | 61.0 | 59.6 | 59.6 | 58.8 | 56.0 | 54.6 | 51.5 | 52.0 | 49.7 | 45.0 | 42.5 | 41.4 | 32.6 | 36.3 | 40.7 |  |
| Non-MSA | 39.6 | 47.8 | 49.7 | 51.9 | 52.1 | 53.9 | 54.6 | 53.1 | 50.5 | 49.8 | 49.3 | 45.9 | 43.5 | 41.9 | 43.2 | 36.9 | 29.4 | 32.7 | 32.7 | 33.2 |  |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 42.3 | 47.8 | 50.1 | 53.1 | 56.5 | 57.3 | 56.5 | 55.4 | 56.2 | 52.6 | 52.9 | 47.0 | 46.1 | 48.0 | 39.5 | 38.1 | 38.0 | 36.6 | 34.6 | 35.4 |  |
| 2.5-3.0 | 47.0 | 54.4 | 56.9 | 59.1 | 60.1 | 61.0 | 59.0 | 58.8 | 56.7 | 55.6 | 54.5 | 52.1 | 51.6 | 47.0 | 45.5 | 42.2 | 36.8 | 32.9 | 34.8 | 38.5 |  |
| 3.5-4.0 | 45.6 | 53.2 | 58.8 | 60.5 | 61.9 | 60.8 | 60.0 | 60.7 | 56.6 | 56.3 | 55.6 | 51.7 | 51.0 | 47.9 | 45.6 | 42.1 | 36.8 | 33.2 | 36.7 | 39.3 |  |
| 4.5-5.0 | 48.5 | 55.5 | 57.6 | 61.6 | 61.8 | 60.9 | 60.9 | 59.8 | 58.0 | 53.2 | 54.5 | 50.7 | 49.7 | 47.7 | 42.2 | 40.4 | 35.5 | 30.0 | 34.3 | 38.3 |  |
| 5.5-6.0 (High) | 46.9 | 57.3 | 56.9 | 63.3 | 61.5 | 62.0 | 61.6 | 58.4 | 56.7 | 53.7 | 50.0 | 49.5 | 49.5 | 45.0 | 40.7 | 37.9 | 38.0 | 29.6 | 34.9 | 37.6 |  |
| Race (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 55.1 | 58.7 | 60.6 | 61.3 | 61.3 | 60.7 | 58.8 | 56.5 | 55.5 | 53.8 | 52.2 | 51.1 | 48.3 | 45.4 | 41.3 | 36.3 | 35.6 | 38.3 |  |
| Black | - | - | 48.5 | 50.8 | 50.7 | 51.4 | 51.1 | 51.4 | 53.9 | 52.6 | 49.7 | 46.9 | 42.6 | 38.8 | 33.4 | 27.7 | 24.9 | 23.0 | 24.1 | 29.4 |  |
| Hispanic | - | - | 55.6 | 54.7 | 55.3 | 56.7 | 53.9 | 53.9 | 54.4 | 54.5 | 53.4 | 51.0 | 47.7 | 46.0 | 42.8 | 38.5 | 39.9 | 40.5 | 36.8 | 36.6 |  |

(Table continued on next page.)

TABLE 9 (cont.)

## MARIJUANA: Trends in Lifetime Prevalence of Use by Subgroups in Grade 12

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | $\underline{2005}$ | $\underline{2006}$ | 2007 | 2008 | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 41.7 | 44.9 | 49.6 | 49.1 | 49.7 | 48.8 | 49.0 | 47.8 | 46.1 | 45.7 | 44.8 | 42.3 | 41.8 | 42.6 | 42.0 | 43.8 | 45.5 | 45.2 | 45.5 | 44.4 | 44.7 | +0.3 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 45.2 | 48.6 | 52.0 | 53.2 | 52.1 | 51.5 | 51.9 | 50.7 | 50.1 | 48.5 | 49.1 | 43.7 | 44.8 | 44.8 | 45.4 | 47.1 | 48.7 | 49.2 | 49.1 | 46.2 | 46.2 | 0.0 |
| Female | 37.7 | 40.7 | 46.6 | 44.6 | 47.0 | 45.7 | 45.7 | 44.7 | 42.0 | 42.6 | 40.2 | 40.6 | 38.6 | 40.1 | 38.1 | 40.0 | 41.8 | 40.5 | 41.3 | 42.3 | 43.3 | +1.0 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 48.8 | 53.1 | 56.5 | 55.6 | 57.2 | 55.2 | 55.9 | 55.5 | 55.6 | 52.6 | 54.7 | 53.3 | 49.8 | 54.2 | 50.4 | 54.7 | 52.6 | 53.6 | 54.1 | 52.0 | 51.0 | -1.0 |
| Complete 4 years | 38.8 | 41.8 | 47.2 | 46.4 | 47.0 | 45.9 | 46.6 | 45.6 | 42.9 | 43.5 | 42.1 | 39.2 | 39.5 | 39.6 | 39.8 | 41.0 | 43.5 | 43.0 | 43.1 | 42.0 | 43.1 | +1.0 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 44.5 | 48.9 | 54.3 | 54.1 | 50.8 | 52.5 | 54.9 | 52.4 | 50.0 | 51.2 | 50.4 | 48.5 | 48.9 | 46.7 | 45.4 | 50.3 | 48.8 | 47.3 | 49.5 | 46.7 | 49.2 | +2.5 |
| Midwest | 43.3 | 45.4 | 47.0 | 45.1 | 48.1 | 46.9 | 48.2 | 48.2 | 48.2 | 45.6 | 44.0 | 42.5 | 42.5 | 41.3 | 42.1 | 40.8 | 43.0 | 39.4 | 38.8 | 43.5 | 41.0 | -2.5 |
| South | 39.2 | 41.9 | 46.3 | 48.3 | 48.8 | 43.6 | 44.9 | 44.6 | 40.9 | 42.0 | 43.1 | 41.0 | 40.0 | 42.0 | 40.2 | 41.6 | 42.8 | 43.5 | 45.0 | 43.2 | 41.3 | -2.0 |
| West | 41.5 | 45.3 | 54.6 | 51.0 | 52.3 | 56.1 | 51.2 | 48.3 | 48.6 | 46.5 | 43.4 | 38.9 | 37.9 | 42.0 | 41.7 | 45.1 | 50.1 | 52.1 | 50.0 | 45.1 | 50.5 | +5.5 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 44.1 | 46.4 | 48.9 | 50.7 | 50.3 | 49.1 | 50.1 | 48.1 | 43.4 | 42.8 | 45.5 | 44.4 | 43.6 | 44.4 | 45.6 | 45.4 | 47.9 | 48.1 | 48.5 | 44.1 | 47.2 | +3.1 |
| Other MSA | 42.1 | 47.8 | 52.6 | 50.3 | 50.6 | 50.2 | 49.1 | 50.5 | 49.5 | 49.3 | 45.9 | 42.3 | 41.2 | 41.2 | 40.4 | 45.1 | 46.3 | 45.4 | 46.5 | 46.6 | 44.5 | -2.1 |
| Non-MSA | 38.3 | 38.2 | 44.5 | 44.5 | 47.4 | 45.9 | 47.5 | 42.2 | 43.5 | 42.2 | 41.8 | 39.5 | 40.2 | 43.8 | 40.8 | 38.2 | 40.3 | 40.1 | 38.5 | 39.2 | 40.8 | +1.6 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 39.8 | 42.1 | 46.0 | 45.6 | 50.5 | 51.9 | 48.8 | 42.8 | 44.5 | 43.1 | 39.6 | 46.8 | 44.6 | 42.6 | 42.7 | 44.5 | 48.3 | 52.6 | 50.8 | 48.4 | 48.8 | +0.4 |
| 2.5-3.0 | 41.8 | 44.8 | 49.7 | 50.2 | 51.5 | 50.4 | 50.5 | 49.4 | 47.8 | 47.3 | 47.8 | 46.1 | 45.0 | 46.3 | 44.2 | 45.6 | 48.6 | 48.2 | 49.0 | 48.9 | 48.6 | -0.4 |
| 3.5-4.0 | 41.7 | 45.0 | 49.3 | 50.5 | 51.2 | 49.3 | 50.4 | 50.1 | 47.1 | 49.0 | 47.5 | 43.3 | 41.5 | 42.9 | 44.0 | 45.6 | 47.3 | 46.3 | 47.9 | 45.5 | 46.8 | +1.3 |
| 4.5-5.0 | 40.7 | 45.5 | 49.7 | 48.0 | 46.2 | 45.8 | 47.9 | 47.1 | 45.4 | 43.3 | 43.4 | 37.1 | 39.4 | 40.1 | 38.7 | 42.8 | 42.2 | 42.7 | 41.4 | 41.3 | 41.1 | -0.3 |
| 5.5-6.0 (High) | 43.2 | 44.2 | 51.1 | 47.8 | 47.6 | 47.2 | 45.1 | 45.4 | 41.9 | 42.8 | 40.7 | 40.5 | 39.0 | 40.2 | 38.4 | 36.9 | 40.9 | 38.6 | 39.0 | 39.0 | 39.5 | +0.6 |
| Race (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 41.1 | 43.9 | 48.3 | 50.9 | 50.3 | 49.4 | 49.8 | 49.9 | 48.8 | 48.2 | 47.5 | 45.3 | 43.3 | 43.4 | 43.3 | 43.3 | 44.8 | 45.2 | 44.0 | 43.7 | 43.8 | +0.1 |
| Black | 34.7 | 39.0 | 41.3 | 42.7 | 45.1 | 45.7 | 43.5 | 41.7 | 40.0 | 39.1 | 39.0 | 38.9 | 37.7 | 38.0 | 40.0 | 41.0 | 41.8 | 42.1 | 43.8 | 43.7 | 41.1 | -2.6 |
| Hispanic | 39.8 | 43.5 | 48.6 | 50.2 | 51.1 | 55.0 | 52.0 | 47.6 | 44.2 | 42.7 | 42.8 | 43.1 | 41.3 | 40.1 | 40.7 | 42.3 | 45.6 | 48.7 | 50.7 | 48.7 | 48.2 | -0.6 |

Source. The Monitoring the Future Study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $\mathrm{s}=.05, \mathrm{ss}=.01$, $\mathrm{sss}=.001$. '-' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S 3 for the number of subgroup cases. See appendix B for definition of variables in table.
${ }^{\text {ap }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how
race/ethnicity is defined.

## TABLE 10

MARIJUANA: Trends in Annual Prevalence of Use by Subgroups in Grade 8

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 14 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | 2001 | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | 2008 | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | change |
| Approximate weighted $N$ | 17,500 | 18,600 | 18,300 | 17,300 | 17,500 | 17,800 | 18,600 | 18,100 | 16,700 | 16,700 | 16,200 | 15,100 | 16,500 | 17,000 | 16,800 | 16,500 | 16,100 | 15,700 | 15,000 | 15,300 | 16,000 | 15,100 | 14,600 | 14,600 | 14,400 |  |
| Total | 6.2 | 7.2 | 9.2 | 13.0 | 15.8 | 18.3 | 17.7 | 16.9 | 16.5 | 15.6 | 15.4 | 14.6 | 12.8 | 11.8 | 12.2 | 11.7 | 10.3 | 10.9 | 11.8 | 13.7 | 12.5 | 11.4 | 12.7 | 11.7 | 11.8 | +0.1 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 7.3 | 7.4 | 10.5 | 15.1 | 17.7 | 19.6 | 19.2 | 18.0 | 18.1 | 16.7 | 18.1 | 17.0 | 13.9 | 12.3 | 13.0 | 12.7 | 11.2 | 12.2 | 13.5 | 15.0 | 14.0 | 12.2 | 12.6 | 11.9 | 11.9 | 0.0 |
| Female | 5.1 | 6.9 | 8.0 | 10.9 | 13.7 | 16.9 | 16.1 | 15.3 | 14.9 | 14.3 | 12.8 | 12.4 | 11.5 | 11.2 | 11.4 | 10.4 | 9.3 | 9.5 | 10.0 | 12.4 | 10.6 | 10.4 | 12.5 | 11.0 | 11.4 | +0.3 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 15.8 | 17.5 | 22.4 | 27.7 | 30.3 | 34.6 | 34.5 | 35.0 | 34.9 | 33.6 | 34.4 | 33.1 | 31.3 | 29.0 | 30.5 | 28.8 | 28.1 | 27.7 | 26.7 | 30.7 | 27.6 | 28.4 | 27.8 | 24.1 | 24.3 | +0.3 |
| Complete 4 years | 4.6 | 5.5 | 7.3 | 11.0 | 13.8 | 15.8 | 15.5 | 14.5 | 14.0 | 13.4 | 13.2 | 12.7 | 10.7 | 10.0 | 10.2 | 10.0 | 8.6 | 9.4 | 10.5 | 12.3 | 11.2 | 10.1 | 11.6 | 10.6 | 10.6 | 0.0 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 5.0 | 5.8 | 6.2 | 12.1 | 13.0 | 15.3 | 16.2 | 11.7 | 14.4 | 13.2 | 14.5 | 11.3 | 10.0 | 10.2 | 9.8 | 9.3 | 6.4 | 8.3 | 11.9 | 12.2 | 7.8 | 7.9 | 10.1 | 10.3 | 8.7 | -1.6 |
| Midwest | 5.9 | 6.0 | 8.0 | 12.0 | 17.5 | 18.6 | 17.0 | 18.1 | 18.5 | 16.6 | 14.1 | 14.3 | 12.3 | 10.9 | 12.8 | 11.0 | 9.8 | 12.6 | 11.1 | 12.1 | 10.7 | 8.5 | 10.5 | 10.7 | 13.1 | +2.4 |
| South | 6.1 | 7.3 | 9.0 | 11.4 | 14.7 | 17.1 | 17.2 | 17.9 | 16.7 | 15.2 | 16.8 | 16.3 | 14.4 | 12.9 | 13.5 | 13.8 | 11.9 | 11.5 | 12.5 | 15.2 | 13.3 | 13.2 | 14.5 | 11.5 | 11.6 | +0.2 |
| West | 7.8 | 10.3 | 14.8 | 18.1 | 18.4 | 22.5 | 20.6 | 18.2 | 15.6 | 16.9 | 15.5 | 15.3 | 12.9 | 12.3 | 11.4 | 10.6 | 10.5 | 10.3 | 11.2 | 13.7 | 16.8 | 14.1 | 13.7 | 14.0 | 12.9 | -1.1 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 5.2 | 6.7 | 8.0 | 13.1 | 15.6 | 18.3 | 16.4 | 16.0 | 15.6 | 14.5 | 12.4 | 12.7 | 11.5 | 10.8 | 11.7 | 10.3 | 8.7 | 9.9 | 10.1 | 13.5 | 11.4 | 10.7 | 13.5 | 13.6 | 12.0 | -1.5 |
| Other MSA | 7.2 | 8.3 | 10.9 | 15.7 | 17.2 | 19.5 | 18.2 | 17.4 | 15.4 | 14.8 | 17.4 | 15.2 | 12.9 | 12.4 | 12.9 | 12.5 | 10.8 | 11.8 | 12.8 | 14.3 | 14.0 | 12.3 | 11.7 | 10.8 | 12.2 | +1.4 |
| Non-MSA | 5.3 | 5.7 | 7.2 | 8.0 | 13.7 | 15.8 | 18.0 | 16.9 | 19.7 | 18.5 | 15.3 | 16.1 | 14.1 | 11.9 | 11.6 | 12.0 | 11.4 | 10.4 | 11.8 | 12.3 | 11.2 | 10.8 | 13.6 | 10.9 | 10.4 | -0.5 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 13.2 | 12.7 | 13.6 | 18.7 | 23.0 | 20.2 | 24.8 | 25.0 | 25.8 | 26.2 | 26.0 | 24.2 | 22.5 | 19.7 | 18.2 | 19.4 | 19.4 | 18.5 | 17.6 | 20.7 | 20.2 | 19.2 | 21.9 | 19.3 | 19.0 | -0.2 |
| 2.5-3.0 | 7.0 | 7.7 | 10.7 | 14.5 | 17.9 | 20.6 | 20.3 | 20.0 | 20.8 | 19.4 | 19.5 | 18.7 | 16.5 | 15.4 | 17.4 | 15.1 | 13.8 | 14.6 | 15.8 | 18.4 | 17.5 | 16.3 | 18.3 | 16.7 | 15.8 | -0.9 |
| 3.5-4.0 | 6.2 | 7.0 | 9.7 | 13.2 | 17.2 | 20.2 | 19.5 | 17.7 | 16.3 | 15.9 | 16.7 | 15.4 | 13.7 | 12.8 | 12.8 | 13.1 | 11.3 | 11.8 | 13.0 | 14.7 | 14.0 | 13.0 | 15.1 | 12.9 | 12.9 | +0.1 |
| 4.5-5.0 | 3.7 | 5.4 | 7.4 | 10.9 | 12.7 | 16.2 | 15.7 | 13.7 | 11.7 | 10.8 | 11.1 | 11.4 | 8.9 | 9.0 | 8.9 | 8.0 | 7.2 | 8.2 | 8.7 | 10.6 | 9.1 | 8.2 | 8.6 | 8.0 | 7.6 | -0.5 |
| 5.5-6.0 (High) | 4.6 | 5.2 | 6.4 | 11.0 | 13.0 | 14.7 | 12.1 | 12.7 | 12.4 | 11.5 | 9.4 | 9.7 | 8.0 | 7.7 | 7.1 | 7.1 | 4.9 | 6.7 | 7.4 | 8.1 | 6.6 | 5.8 | 6.6 | 7.9 | 7.3 | -0.6 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 6.4 | 7.8 | 10.0 | 13.5 | 16.7 | 17.8 | 16.7 | 15.4 | 14.9 | 14.7 | 14.5 | 13.0 | 11.5 | 11.1 | 10.9 | 9.9 | 9.6 | 10.3 | 11.5 | 11.4 | 10.0 | 9.1 | 8.9 | 8.7 | -0.3 |
| African American | - | 4.1 | 5.7 | 8.9 | 11.9 | 14.0 | 15.3 | 16.0 | 16.3 | 16.1 | 14.6 | 12.7 | 12.6 | 12.8 | 13.6 | 12.9 | 11.1 | 10.6 | 12.3 | 14.1 | 13.6 | 12.4 | 13.6 | 13.2 | 11.9 | -1.3 |
| Hispanic | - | 11.9 | 13.9 | 18.1 | 20.4 | 20.8 | 21.8 | 22.7 | 22.8 | 20.1 | 19.9 | 21.1 | 19.1 | 16.7 | 14.7 | 14.3 | 13.7 | 13.2 | 13.6 | 15.3 | 16.9 | 17.2 | 16.8 | 16.0 | 15.0 | -1.0 |

Source. The Monitoring the Future study, the University of Michigan
 See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table
${ }^{\text {a Parental }}$ education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\text {b }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

## TABLE 11

MARIJUANA: Trends in Annual Prevalence of Use by Subgroups in Grade 10

Percentage who used in last 12 months
2014
$\underline{1991} \quad \underline{1992} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{\underline{2003}} \quad \underline{2004} \quad \underline{2005} \quad \underline{\underline{2006}} \quad \underline{\underline{2007}} \quad \underline{\underline{2008}} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015} \quad \underline{c h a n g e}$


| Total | 16.5 | 15.2 | 19.2 | 25.2 | 28.7 | 33.6 | 34.8 | 31.1 | 32.1 | 32.2 | 32.7 | 30.3 | 28.2 | 27.5 | 26.6 | 25.2 | 24.6 | 23.9 | 26.7 | 27.5 | 28.8 | 28.0 | 29.8 | 27.3 | 25.4 | -1.9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 17.7 | 16.3 | 21.2 | 28.2 | 30.6 | 36.0 | 37.3 | 32.2 | 34.3 | 36.1 | 36.0 | 32.3 | 30.0 | 29.0 | 28.1 | 26.3 | 26.8 | 25.5 | 29.6 | 30.7 | 31.8 | 31.0 | 32.7 | 28.3 | 25.9 | -2.4 |
| Female | 15.1 | 13.9 | 16.9 | 21.9 | 26.5 | 31.4 | 32.3 | 30.1 | 29.7 | 28.4 | 29.6 | 28.4 | 26.4 | 25.8 | 24.9 | 24.0 | 22.4 | 22.2 | 23.9 | 24.3 | 25.8 | 25.3 | 27.0 | 26.0 | 24.7 | $-1.3$ |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 26.9 | 25.1 | 31.5 | 37.3 | 41.8 | 48.9 | 51.5 | 46.8 | 48.3 | 48.8 | 47.4 | 46.6 | 44.6 | 41.9 | 41.4 | 42.0 | 42.1 | 43.5 | 44.5 | 45.8 | 47.9 | 43.6 | 46.5 | 41.4 | 40.8 | -0.5 |
| Complete 4 years | 14.2 | 13.0 | 16.5 | 22.4 | 26.4 | 31.0 | 32.0 | 28.2 | 29.3 | 29.7 | 30.3 | 27.7 | 25.5 | 25.4 | 24.6 | 23.0 | 22.2 | 21.4 | 24.7 | 25.3 | 26.7 | 26.5 | 28.0 | 25.7 | 23.8 | -1.9 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 17.1 | 14.9 | 22.4 | 25.6 | 28.8 | 34.8 | 34.6 | 35.4 | 34.4 | 30.3 | 34.1 | 31.7 | 29.5 | 29.2 | 28.7 | 24.9 | 25.0 | 26.3 | 24.1 | 26.2 | 29.3 | 31.4 | 28.7 | 27.4 | 26.7 | -0.7 |
| Midwest | 15.8 | 14.8 | 17.4 | 23.4 | 26.6 | 33.1 | 34.4 | 28.5 | 31.6 | 31.1 | 31.7 | 29.0 | 25.0 | 25.3 | 26.4 | 24.8 | 24.9 | 22.6 | 23.6 | 25.7 | 26.8 | 23.7 | 27.5 | 24.5 | 21.5 | -3.1 |
| South | 14.5 | 12.5 | 16.4 | 23.8 | 28.4 | 33.9 | 34.4 | 30.7 | 30.9 | 31.4 | 31.2 | 28.9 | 29.6 | 29.0 | 27.4 | 25.5 | 22.7 | 24.0 | 28.7 | 27.8 | 28.6 | 27.9 | 31.1 | 27.6 | 25.8 | -1.8 |
| West | 19.4 | 20.4 | 24.0 | 30.0 | 32.2 | 32.4 | 36.5 | 30.7 | 32.0 | 37.1 | 36.4 | 33.4 | 28.8 | 26.4 | 23.4 | 25.3 | 26.2 | 23.4 | 29.4 | 30.3 | 30.9 | 30.2 | 31.3 | 29.4 | 27.7 | -1.6 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 16.5 | 15.1 | 19.0 | 26.3 | 27.8 | 31.5 | 34.1 | 28.7 | 31.2 | 32.4 | 30.0 | 29.0 | 27.1 | 25.9 | 25.3 | 24.0 | 24.5 | 24.2 | 26.6 | 26.6 | 27.4 | 28.6 | 28.7 | 27.5 | 25.6 | -1.9 |
| Other MSA | 17.3 | 15.9 | 19.8 | 28.2 | 31.2 | 36.2 | 36.6 | 33.1 | 33.6 | 32.8 | 35.2 | 32.4 | 28.7 | 27.8 | 28.0 | 25.1 | 24.9 | 24.7 | 27.8 | 29.1 | 30.6 | 28.1 | 31.5 | 28.0 | 25.9 | -2.1 |
| Non-MSA | 14.9 | 13.9 | 18.2 | 18.5 | 24.8 | 30.9 | 32.5 | 30.2 | 30.0 | 31.1 | 30.9 | 27.6 | 29.0 | 29.0 | 25.5 | 27.4 | 23.9 | 21.7 | 24.5 | 25.7 | 27.2 | 27.0 | 27.3 | 25.1 | 23.8 | -1.3 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 20.3 | 18.9 | 22.4 | 25.8 | 32.0 | 32.9 | 34.5 | 31.7 | 38.1 | 37.1 | 33.6 | 33.5 | 33.7 | 33.2 | 28.6 | 31.9 | 28.4 | 30.2 | 36.0 | 34.8 | 35.8 | 37.1 | 36.9 | 31.5 | 34.2 | +2.7 |
| 2.5-3.0 | 17.8 | 16.0 | 19.7 | 26.3 | 31.8 | 35.6 | 36.8 | 35.3 | 35.4 | 34.9 | 37.1 | 35.1 | 32.2 | 30.6 | 31.1 | 29.6 | 29.4 | 28.3 | 29.9 | 33.0 | 34.0 | 33.0 | 35.7 | 32.0 | 31.1 | -0.9 |
| 3.5-4.0 | 16.2 | 15.1 | 19.3 | 25.6 | 30.0 | 36.4 | 37.8 | 31.6 | 31.9 | 35.0 | 32.6 | 30.1 | 29.4 | 29.5 | 27.1 | 26.6 | 26.3 | 26.0 | 27.3 | 29.3 | 31.0 | 29.7 | 31.8 | 30.6 | 29.0 | -1.5 |
| 4.5-5.0 | 14.9 | 14.1 | 17.6 | 23.8 | 27.0 | 31.7 | 33.1 | 28.3 | 28.8 | 28.9 | 31.4 | 27.9 | 24.3 | 24.3 | 24.5 | 21.8 | 21.2 | 19.8 | 24.2 | 22.2 | 24.6 | 25.5 | 26.3 | 23.3 | 21.9 | -1.4 |
| 5.5-6.0 (High) | 15.9 | 13.7 | 18.5 | 23.3 | 23.4 | 30.3 | 30.5 | 27.7 | 30.6 | 27.3 | 29.4 | 25.8 | 24.3 | 22.5 | 23.6 | 21.2 | 18.9 | 18.9 | 21.8 | 23.1 | 23.1 | 22.9 | 23.2 | 21.6 | 18.6 | -3.0 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 17.0 | 18.0 | 22.6 | 27.7 | 32.0 | 35.3 | 34.2 | 32.5 | 32.6 | 32.9 | 32.7 | 30.6 | 28.2 | 27.3 | 26.6 | 25.7 | 24.6 | 25.1 | 26.5 | 27.4 | 27.5 | 27.3 | 26.7 | 24.8 | -2.0 s |
| African American | - | 7.6 | 8.7 | 15.3 | 20.9 | 25.7 | 28.4 | 26.9 | 26.3 | 27.6 | 28.7 | 26.5 | 25.1 | 27.0 | 27.2 | 24.5 | 22.3 | 20.6 | 22.0 | 25.0 | 28.1 | 29.1 | 30.5 | 30.6 | 28.1 | -2.5 |
| Hispanic | - | 18.9 | 21.3 | 25.1 | 29.2 | 34.6 | 36.8 | 34.4 | 34.0 | 34.8 | 34.9 | 31.6 | 28.8 | 29.8 | 28.6 | 24.9 | 23.7 | 26.6 | 29.9 | 31.1 | 31.0 | 31.8 | 33.4 | 32.6 | 30.6 | -2.0 |

Source. The Monitoring the Future study, the University of Michigan.
 See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

${ }^{\text {T }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 12
MARIJUANA: Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  |  |  |  |  |  |  |  |  | Percen | tage who | o used in | last 12 | months |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Approximate weighted $N=$ | $\frac{1975}{9,400}$ | $\frac{1976}{15,400}$ | $\frac{1977}{17,100}$ | $\frac{1978}{17,800}$ | $\frac{1979}{15,500}$ | $\frac{1980}{15,900}$ | $\frac{1981}{17,500}$ | $\frac{1982}{17,700}$ | $\frac{1983}{16,300}$ | $\frac{1984}{15,900}$ | $\frac{1985}{16,000}$ | $\frac{1986}{15,200}$ | $\frac{1987}{16,300}$ | $\frac{1988}{16,300}$ | $\frac{1989}{16,700}$ | $\frac{1990}{15,200}$ | $\frac{1991}{15,000}$ | $\frac{1992}{15,800}$ | $\frac{1993}{16,300}$ | $\frac{1994}{15,400}$ |
| Total | 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 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 45.8 | 50.6 | 53.2 | 55.9 | 55.8 | 53.4 | 49.2 | 47.2 | 45.7 | 43.2 | 43.1 | 41.2 | 38.6 | 35.8 | 32.8 | 29.4 | 27.2 | 24.4 | 29.0 | 35.1 |
| Female | 34.9 | 37.8 | 42.0 | 44.3 | 45.7 | 44.1 | 42.5 | 40.8 | 38.4 | 36.0 | 37.8 | 36.0 | 33.8 | 30.3 | 26.3 | 24.2 | 20.1 | 18.9 | 22.4 | 26.4 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 46.8 | 50.7 | 51.6 | 53.1 | 51.7 | 49.7 | 48.2 | 46.0 | 44.2 | 44.0 | 42.7 | 40.6 | 36.2 | 34.4 | 31.1 | 27.6 | 27.5 | 29.1 | 34.4 |
| Complete 4 years | - | 40.7 | 43.4 | 47.1 | 47.3 | 45.9 | 42.6 | 40.6 | 38.3 | 35.9 | 37.5 | 36.1 | 34.0 | 31.3 | 27.3 | 24.7 | 22.0 | 19.4 | 24.4 | 29.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 47.4 | 52.7 | 53.5 | 59.2 | 60.6 | 55.5 | 53.2 | 50.9 | 49.3 | 49.6 | 48.2 | 44.6 | 41.2 | 36.7 | 31.3 | 32.2 | 28.2 | 23.9 | 31.2 | 36.0 |
| Midwest | 40.1 | 44.0 | 48.1 | 51.6 | 52.2 | 48.9 | 46.8 | 45.6 | 42.0 | 36.4 | 40.8 | 40.2 | 37.4 | 34.3 | 33.0 | 28.7 | 26.1 | 22.7 | 26.0 | 30.5 |
| South | 32.4 | 37.9 | 42.5 | 42.7 | 41.2 | 42.0 | 38.0 | 36.7 | 36.1 | 35.6 | 31.0 | 31.7 | 30.2 | 28.7 | 25.0 | 21.4 | 18.1 | 18.1 | 23.2 | 28.7 |
| West | 44.1 | 45.8 | 46.8 | 49.1 | 51.9 | 51.7 | 49.6 | 45.5 | 44.8 | 43.2 | 46.2 | 41.2 | 39.6 | 35.6 | 32.3 | 28.3 | 26.8 | 26.1 | 26.4 | 30.0 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 50.4 | 51.3 | 53.2 | 57.2 | 58.7 | 56.3 | 51.4 | 50.4 | 47.0 | 44.2 | 44.4 | 42.6 | 39.3 | 34.3 | 27.8 | 27.7 | 24.3 | 22.6 | 29.1 | 32.0 |
| Other MSA | 40.3 | 44.2 | 48.9 | 50.8 | 51.9 | 49.8 | 46.4 | 44.8 | 44.0 | 41.0 | 40.7 | 39.4 | 36.9 | 34.7 | 30.3 | 28.3 | 27.5 | 22.1 | 26.2 | 32.7 |
| Non-MSA | 32.9 | 39.8 | 41.2 | 43.3 | 43.3 | 41.9 | 41.6 | 38.5 | 36.5 | 35.3 | 37.3 | 34.7 | 32.2 | 29.0 | 30.0 | 23.5 | 17.5 | 21.0 | 23.1 | 25.8 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 35.2 | 38.9 | 41.0 | 42.5 | 46.0 | 43.7 | 41.8 | 38.9 | 39.7 | 35.7 | 37.1 | 33.4 | 30.7 | 30.7 | 23.3 | 21.0 | 22.4 | 21.2 | 23.0 | 26.3 |
| 2.5-3.0 | 39.2 | 46.1 | 48.2 | 50.3 | 50.0 | 49.0 | 45.3 | 44.5 | 42.2 | 40.1 | 40.6 | 38.8 | 36.3 | 31.1 | 29.6 | 26.9 | 22.5 | 21.1 | 24.1 | 29.7 |
| 3.5-4.0 | 38.5 | 44.9 | 49.5 | 51.4 | 52.7 | 49.8 | 47.0 | 46.5 | 42.2 | 41.4 | 41.0 | 40.1 | 36.8 | 33.4 | 31.4 | 27.6 | 24.0 | 22.7 | 26.6 | 31.5 |
| 4.5-5.0 | 40.6 | 46.8 | 49.3 | 53.2 | 53.7 | 50.5 | 47.6 | 45.9 | 43.5 | 39.6 | 43.2 | 39.9 | 37.5 | 35.1 | 29.7 | 28.5 | 23.8 | 20.8 | 27.2 | 32.0 |
| 5.5-6.0 (High) | 38.7 | 47.5 | 48.6 | 55.2 | 51.2 | 52.0 | 48.5 | 45.7 | 43.7 | 39.9 | 37.9 | 38.9 | 38.6 | 35.9 | 30.7 | 29.4 | 28.2 | 22.6 | 28.0 | 32.3 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 46.8 | 50.1 | 51.8 | 51.2 | 49.1 | 47.1 | 44.6 | 42.0 | 41.6 | 41.4 | 39.7 | 37.6 | 34.5 | 31.6 | 28.2 | 24.9 | 25.9 | 30.2 |
| African American | - | - | 37.9 | 39.6 | 38.4 | 37.5 | 36.1 | 35.5 | 37.4 | 36.4 | 33.4 | 30.6 | 25.7 | 21.2 | 17.8 | 13.7 | 11.4 | 11.5 | 14.2 | 20.7 |
| Hispanic | - | - | 45.8 | 43.4 | 42.1 | 44.1 | 41.2 | 38.8 | 38.3 | 38.8 | 37.8 | 36.7 | 33.3 | 29.6 | 25.0 | 21.6 | 23.6 | 24.7 | 23.5 | 25.7 |

(Years cont.)

[^3]TABLE 12 (cont.)
MARIJUANA: Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | 2006 | $\underline{2007}$ | 2008 | $\underline{2009}$ | $\underline{2010}$ | 2011 | $\underline{2012}$ | $\underline{2013}$ | 2014 | $\underline{2015}$ |  |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 34.7 | 35.8 | 38.5 | 37.5 | 37.8 | 36.5 | 37.0 | 36.2 | 34.9 | 34.3 | 33.6 | 31.5 | 31.7 | 32.4 | 32.8 | 34.8 | 36.4 | 36.4 | 36.4 | 35.1 | 34.9 | -0.2 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 38.1 | 39.4 | 40.9 | 41.7 | 41.4 | 39.2 | 40.1 | 39.9 | 37.8 | 37.4 | 37.6 | 32.7 | 35.0 | 35.1 | 36.7 | 38.3 | 40.0 | 40.8 | 39.8 | 37.0 | 36.3 | -0.7 |
| Female | 30.6 | 31.6 | 35.5 | 33.0 | 34.1 | 33.4 | 33.6 | 32.4 | 31.6 | 30.8 | 29.6 | 29.7 | 28.3 | 29.5 | 28.7 | 30.7 | 32.1 | 31.3 | 32.4 | 33.0 | 33.5 | +0.5 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 39.0 | 41.7 | 44.6 | 43.0 | 43.2 | 40.3 | 41.5 | 40.9 | 42.1 | 39.0 | 41.3 | 39.9 | 38.6 | 41.0 | 38.0 | 42.7 | 41.5 | 41.5 | 42.1 | 40.8 | 38.7 | -2.1 |
| Complete 4 years | 32.6 | 33.4 | 36.4 | 35.2 | 35.9 | 34.6 | 35.3 | 34.7 | 32.3 | 32.6 | 31.5 | 29.1 | 29.8 | 30.2 | 31.1 | 32.5 | 34.7 | 34.8 | 34.8 | 33.1 | 33.7 | +0.6 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 37.7 | 40.0 | 43.5 | 43.0 | 39.0 | 42.3 | 43.8 | 41.9 | 40.5 | 40.1 | 39.6 | 38.1 | 39.2 | 36.6 | 37.8 | 41.3 | 40.7 | 38.1 | 40.9 | 39.6 | 41.0 | +1.4 |
| Midwest | 36.9 | 36.9 | 36.5 | 33.8 | 38.0 | 34.5 | 36.9 | 37.5 | 36.5 | 34.0 | 33.7 | 32.0 | 32.6 | 31.1 | 32.5 | 32.5 | 34.7 | 32.0 | 31.6 | 34.6 | 32.7 | -2.0 |
| South | 31.8 | 32.8 | 35.0 | 36.5 | 36.0 | 30.7 | 32.4 | 32.6 | 29.4 | 30.1 | 31.2 | 29.4 | 29.0 | 31.0 | 30.6 | 32.4 | 33.1 | 33.9 | 34.4 | 33.6 | 31.2 | -2.3 |
| West | 33.8 | 35.6 | 42.6 | 39.0 | 39.8 | 43.1 | 38.4 | 35.2 | 36.2 | 35.6 | 32.0 | 28.8 | 29.1 | 32.8 | 32.1 | 35.8 | 40.0 | 43.0 | 40.9 | 34.3 | 38.9 | +4.6 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 37.5 | 37.2 | 38.3 | 38.4 | 38.7 | 37.1 | 39.2 | 37.7 | 32.3 | 32.3 | 34.5 | 33.4 | 33.9 | 34.8 | 37.2 | 36.8 | 38.7 | 40.4 | 38.9 | 35.8 | 38.5 | +2.7 |
| Other MSA | 34.9 | 38.6 | 40.5 | 38.8 | 39.1 | 38.1 | 36.7 | 38.0 | 38.1 | 37.9 | 35.0 | 31.9 | 31.6 | 31.2 | 32.0 | 36.1 | 37.4 | 36.8 | 37.9 | 36.9 | 34.4 | -2.5 |
| Non-MSA | 31.0 | 29.6 | 34.9 | 33.5 | 34.7 | 32.9 | 35.1 | 30.8 | 32.2 | 29.7 | 29.7 | 28.1 | 28.8 | 32.2 | 28.7 | 28.8 | 30.4 | 29.2 | 29.0 | 29.7 | 30.4 | +0.7 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 30.9 | 31.3 | 34.8 | 34.2 | 35.5 | 36.5 | 33.9 | 30.8 | 31.4 | 28.7 | 27.3 | 32.0 | 31.1 | 30.5 | 28.9 | 32.8 | 35.7 | 42.0 | 38.4 | 37.3 | 35.3 | -2.0 |
| 2.5-3.0 | 33.8 | 35.1 | 37.4 | 36.1 | 38.6 | 35.1 | 37.0 | 34.9 | 34.2 | 33.1 | 34.8 | 33.2 | 33.8 | 32.8 | 33.6 | 35.4 | 36.8 | 37.6 | 39.0 | 37.5 | 37.8 | +0.2 |
| 3.5-4.0 | 34.2 | 36.1 | 38.1 | 39.0 | 38.6 | 36.8 | 38.4 | 38.5 | 36.2 | 36.9 | 35.5 | 31.6 | 30.6 | 32.0 | 34.5 | 36.8 | 38.1 | 37.5 | 38.3 | 35.9 | 36.8 | +0.9 |
| 4.5-5.0 | 35.0 | 36.6 | 40.1 | 37.4 | 35.9 | 35.8 | 37.4 | 37.0 | 35.4 | 34.4 | 33.9 | 28.4 | 30.4 | 32.7 | 31.0 | 34.5 | 35.0 | 35.0 | 33.3 | 32.9 | 32.5 | -0.4 |
| 5.5-6.0 (High) | 37.5 | 36.7 | 39.7 | 38.3 | 39.2 | 38.0 | 35.2 | 36.1 | 32.6 | 34.0 | 32.3 | 32.9 | 32.8 | 32.8 | 33.6 | 29.9 | 34.5 | 32.2 | 33.8 | 32.9 | 32.1 | -0.9 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 34.2 | 36.4 | 38.7 | 39.9 | 39.1 | 38.2 | 38.5 | 38.7 | 37.9 | 37.3 | 36.6 | 34.8 | 33.4 | 33.9 | 34.3 | 34.8 | 36.3 | 36.6 | 35.6 | 35.1 | 35.1 | -0.1 |
| African American | 26.8 | 30.2 | 30.4 | 30.0 | 30.4 | 30.0 | 29.0 | 27.3 | 26.3 | 25.5 | 26.3 | 27.7 | 27.0 | 26.8 | 28.6 | 30.8 | 32.4 | 33.2 | 35.0 | 35.9 | 32.8 | -3.1 s |
| Hispanic | 29.7 | 32.3 | 36.4 | 37.2 | 37.8 | 40.5 | 37.6 | 34.6 | 31.1 | 29.5 | 29.6 | 28.7 | 27.2 | 27.3 | 28.8 | 31.6 | 34.4 | 37.3 | 39.2 | 37.1 | 35.6 | -1.5 |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## TABLE 13

## MARIJUANA: Trends in 30-Day Prevalence of Use by Subgroups in Grade 8

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | 2004 | $\underline{2005}$ | $\underline{2006}$ | 2007 | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | 2011 | $\underline{2012}$ | $\underline{2013}$ | 2014 | $\underline{2015}$ | change |
| Approximate weighted $N=$ | 17,500 | 18,600 | 18,300 | 17,300 | 17,500 | 17,800 | 18,600 | 18,100 | 16,700 | 16,700 | 16,200 | 15,100 | 16,500 | 17,000 | 16,800 | 16,500 | 16,100 | 15,700 | 15,000 | 15,300 | 16,000 | 15,100 | 14,600 | 14,600 | 14,400 |  |
| Total | 3.2 | 3.7 | 5.1 | 7.8 | 9.1 | 11.3 | 10.2 | 9.7 | 9.7 | 9.1 | 9.2 | 8.3 | 7.5 | 6.4 | 6.6 | 6.5 | 5.7 | 5.8 | 6.5 | 8.0 | 7.2 | 6.5 | 7.0 | 6.5 | 6.5 | 0.0 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 3.8 | 3.8 | 6.1 | 9.5 | 9.8 | 12.1 | 11.4 | 10.3 | 10.5 | 10.2 | 11.0 | 9.5 | 8.5 | 6.3 | 7.6 | 6.7 | 6.2 | 6.6 | 7.5 | 9.2 | 8.5 | 7.0 | 6.7 | 6.9 | 6.6 | -0.3 |
| Female | 2.6 | 3.5 | 4.1 | 6.0 | 8.2 | 10.2 | 8.9 | 8.8 | 8.8 | 7.8 | 7.3 | 7.1 | 6.4 | 6.3 | 5.7 | 6.0 | 4.9 | 4.8 | 5.3 | 6.8 | 5.7 | 6.0 | 7.2 | 5.9 | 6.2 | +0.3 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 9.8 | 11.5 | 13.2 | 19.7 | 20.6 | 24.5 | 23.8 | 24.6 | 25.9 | 23.4 | 23.9 | 23.2 | 21.7 | 19.0 | 19.7 | 20.1 | 18.3 | 19.1 | 18.9 | 21.4 | 19.4 | 20.0 | 19.7 | 17.6 | 16.4 | -1.2 |
| Complete 4 years | 2.1 | 2.5 | 3.9 | 6.1 | 7.5 | 9.1 | 8.4 | 7.8 | 7.7 | 7.4 | 7.5 | 6.8 | 6.0 | 4.9 | 5.2 | 5.1 | 4.5 | 4.5 | 5.4 | 6.8 | 6.2 | 5.4 | 6.2 | 5.6 | 5.6 | 0.0 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 2.4 | 3.1 | 3.3 | 7.7 | 7.2 | 9.2 | 9.0 | 6.5 | 7.6 | 7.5 | 8.7 | 6.3 | 5.9 | 5.3 | 5.6 | 5.2 | 3.4 | 4.2 | 6.6 | 7.0 | 4.3 | 4.7 | 5.4 | 6.2 | 5.3 | -0.9 |
| Midwest | 3.3 | 3.0 | 3.7 | 7.3 | 10.1 | 11.8 | 10.4 | 10.8 | 11.7 | 9.5 | 7.9 | 8.0 | 7.3 | 5.6 | 6.6 | 5.6 | 5.3 | 6.8 | 6.2 | 6.8 | 5.7 | 4.4 | 5.8 | 6.0 | 6.6 | +0.6 |
| South | 3.3 | 3.7 | 5.0 | 6.6 | 8.5 | 10.3 | 9.7 | 10.2 | 10.1 | 8.9 | 10.0 | 9.4 | 8.7 | 7.0 | 7.6 | 7.9 | 6.5 | 6.0 | 6.8 | 8.8 | 7.7 | 7.5 | 8.5 | 6.1 | 6.7 | +0.5 |
| West | 3.9 | 5.6 | 9.2 | 10.9 | 10.6 | 13.9 | 11.9 | 10.5 | 8.4 | 10.4 | 9.8 | 8.6 | 7.0 | 7.0 | 5.9 | 5.9 | 5.9 | 5.6 | 6.0 | 8.5 | 10.2 | 8.2 | 7.0 | 7.7 | 6.8 | -0.9 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 2.8 | 3.3 | 4.1 | 7.6 | 9.1 | 11.3 | 8.7 | 9.3 | 8.6 | 7.5 | 7.1 | 6.7 | 6.5 | 6.6 | 6.3 | 5.3 | 4.3 | 4.9 | 5.5 | 7.7 | 6.8 | 5.8 | 7.2 | 7.5 | 7.1 | -0.4 |
| Other MSA | 3.7 | 4.4 | 6.5 | 9.8 | 9.9 | 12.0 | 10.7 | 9.8 | 9.4 | 9.1 | 10.5 | 8.8 | 7.5 | 6.4 | 7.4 | 7.4 | 6.1 | 6.3 | 7.2 | 8.3 | 8.3 | 7.0 | 6.7 | 6.0 | 6.5 | +0.5 |
| Non-MSA | 2.8 | 3.1 | 3.2 | 4.3 | 7.7 | 9.7 | 10.8 | 10.2 | 11.6 | 11.0 | 9.1 | 9.4 | 9.0 | 6.1 | 5.7 | 6.3 | 6.7 | 5.8 | 6.1 | 7.4 | 5.5 | 6.5 | 7.5 | 6.1 | 5.7 | -0.4 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 7.4 | 7.2 | 7.2 | 12.4 | 13.5 | 12.5 | 15.5 | 15.7 | 17.5 | 18.8 | 16.4 | 13.5 | 13.7 | 11.3 | 10.6 | 12.0 | 10.4 | 11.1 | 10.3 | 12.3 | 12.2 | 11.4 | 13.6 | 12.4 | 11.9 | -0.5 |
| 2.5-3.0 | 3.9 | 3.9 | 5.5 | 9.0 | 10.4 | 13.4 | 11.6 | 11.4 | 12.1 | 11.9 | 11.9 | 11.3 | 10.0 | 8.3 | 9.6 | 8.9 | 7.3 | 8.4 | 8.6 | 10.5 | 10.1 | 9.9 | 10.9 | 8.8 | 8.5 | -0.3 |
| 3.5-4.0 | 3.1 | 3.5 | 5.7 | 7.8 | 9.9 | 12.0 | 11.0 | 10.6 | 9.1 | 8.8 | 9.6 | 8.7 | 7.6 | 7.0 | 7.3 | 7.0 | 6.7 | 5.6 | 7.1 | 8.8 | 7.7 | 7.2 | 8.1 | 7.1 | 6.7 | -0.4 |
| 4.5-5.0 | 1.7 | 2.9 | 3.6 | 6.0 | 7.1 | 9.3 | 9.0 | 7.1 | 6.7 | 5.3 | 6.5 | 6.2 | 5.0 | 4.4 | 4.2 | 3.7 | 3.6 | 3.8 | 5.1 | 6.1 | 5.5 | 4.1 | 4.3 | 4.1 | 3.6 | -0.5 |
| 5.5-6.0 (High) | 2.3 | 2.4 | 4.2 | 5.8 | 7.4 | 9.2 | 6.7 | 7.3 | 7.5 | 5.8 | 5.3 | 5.4 | 4.8 | 3.6 | 3.3 | 3.4 | 2.3 | 3.6 | 4.0 | 4.3 | 3.4 | 3.1 | 3.4 | 4.1 | 4.1 | -0.1 |
| Race (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 3.3 | 4.1 | 5.6 | 7.8 | 10.0 | 10.6 | 9.5 | 8.7 | 8.4 | 8.4 | 8.3 | 7.4 | 6.2 | 5.8 | 5.8 | 5.4 | 5.0 | 5.4 | 6.5 | 6.5 | 5.3 | 4.7 | 4.7 | 4.6 | -0.1 |
| Black | - | 2.0 | 2.9 | 5.0 | 6.6 | 8.0 | 9.0 | 9.1 | 9.7 | 9.3 | 8.1 | 7.4 | 7.3 | 7.7 | 8.2 | 7.5 | 6.4 | 6.1 | 6.7 | 7.7 | 8.1 | 7.6 | 8.2 | 7.7 | 7.1 | -0.6 |
| Hispanic | - | 6.4 | 8.3 | 12.1 | 12.9 | 12.5 | 13.1 | 13.5 | 14.3 | 12.7 | 12.6 | 12.6 | 10.3 | 9.3 | 8.3 | 8.1 | 7.6 | 7.1 | 7.3 | 8.8 | 10.1 | 10.4 | 10.0 | 8.9 | 8.3 | -0.6 |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  classes is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 14
MARIJUANA: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10

Percentage who used in last 30 days
2014-



| Total | 8.7 | 8.1 | 10.9 | 15.8 | 17.2 | 20.4 | 20.5 | 18.7 | 19.4 | 19.7 | 19.8 | 17.8 | 17.0 | 15.9 | 15.2 | 14.2 | 14.2 | 13.8 | 15.9 | 16.7 | 17.6 | 17.0 | 18.0 | 16.6 | 14.8 | $-1.8$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 10.1 | 9.0 | 13.1 | 18.6 | 19.1 | 22.3 | 23.0 | 20.3 | 21.8 | 23.3 | 22.7 | 19.3 | 19.0 | 17.4 | 16.7 | 15.7 | 15.8 | 15.2 | 18.7 | 20.1 | 20.8 | 19.8 | 20.6 | 17.4 | 15.6 | -1.8 |
| Female | 7.3 | 7.1 | 8.6 | 12.8 | 15.0 | 18.6 | 17.9 | 17.2 | 17.0 | 16.2 | 16.8 | 16.4 | 15.0 | 14.2 | 13.4 | 12.6 | 12.5 | 12.3 | 13.2 | 13.3 | 14.5 | 14.4 | 15.3 | 15.7 | 13.7 | -1.9 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 15.0 | 14.3 | 20.4 | 25.8 | 27.9 | 35.2 | 34.7 | 32.6 | 33.8 | 33.7 | 35.2 | 31.5 | 31.3 | 27.5 | 27.0 | 28.1 | 27.6 | 28.4 | 28.0 | 34.0 | 34.2 | 30.3 | 31.0 | 29.3 | 27.9 | -1.4 |
| Complete 4 years | 7.4 | 6.7 | 8.8 | 13.6 | 15.2 | 17.9 | 18.1 | 16.1 | 17.0 | 17.6 | 17.3 | 15.6 | 14.7 | 14.2 | 13.4 | 12.4 | 12.3 | 11.9 | 14.5 | 14.6 | 15.7 | 15.7 | 16.5 | 15.1 | 13.4 | -1.8 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 10.1 | 7.7 | 13.4 | 16.9 | 17.1 | 21.9 | 21.6 | 22.7 | 22.0 | 19.4 | 21.3 | 19.4 | 18.3 | 16.5 | 17.6 | 14.6 | 14.3 | 16.6 | 15.3 | 15.5 | 19.0 | 19.1 | 17.3 | 17.5 | 14.7 | -2.7 |
| Midwest | 8.3 | 7.6 | 10.5 | 15.3 | 16.8 | 20.7 | 19.8 | 16.6 | 19.6 | 19.8 | 19.1 | 16.7 | 14.2 | 14.8 | 14.3 | 13.6 | 14.7 | 12.5 | 13.3 | 15.4 | 16.4 | 14.4 | 16.9 | 14.4 | 12.6 | -1.7 |
| South | 7.2 | 6.6 | 9.1 | 14.8 | 17.2 | 20.3 | 20.1 | 18.7 | 18.1 | 18.2 | 18.0 | 16.6 | 18.5 | 17.1 | 15.7 | 14.6 | 12.8 | 14.0 | 17.3 | 16.7 | 16.7 | 17.2 | 19.0 | 17.0 | 15.3 | -1.7 |
| West | 10.3 | 11.7 | 12.1 | 17.3 | 17.6 | 18.9 | 21.1 | 17.2 | 18.8 | 22.8 | 23.0 | 20.2 | 17.0 | 14.7 | 12.9 | 14.1 | 15.3 | 12.9 | 17.2 | 19.0 | 19.2 | 18.0 | 18.2 | 17.3 | 16.4 | -1.0 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 9.3 | 8.0 | 11.2 | 17.2 | 16.9 | 18.4 | 19.8 | 17.4 | 19.0 | 20.6 | 18.5 | 16.8 | 15.4 | 13.8 | 14.6 | 14.2 | 14.2 | 13.9 | 16.1 | 16.0 | 17.0 | 17.3 | 17.2 | 16.7 | 14.8 | -1.9 |
| Other MSA | 9.1 | 8.6 | 11.2 | 17.5 | 18.5 | 22.2 | 21.7 | 19.7 | 20.3 | 19.7 | 21.0 | 19.1 | 17.3 | 16.7 | 15.6 | 13.6 | 13.5 | 14.4 | 16.4 | 18.0 | 18.9 | 17.2 | 19.1 | 17.1 | 15.4 | -1.8 |
| Non-MSA | 7.6 | 7.2 | 10.1 | 11.4 | 14.7 | 19.3 | 19.2 | 18.4 | 18.1 | 18.8 | 18.7 | 16.5 | 18.8 | 16.9 | 15.0 | 15.7 | 15.5 | 12.4 | 14.8 | 15.1 | 15.8 | 16.3 | 16.3 | 14.9 | 13.4 | -1.6 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 11.4 | 11.2 | 13.3 | 15.8 | 20.6 | 21.4 | 20.9 | 20.4 | 25.0 | 23.4 | 20.6 | 21.6 | 21.6 | 19.5 | 15.8 | 18.4 | 17.1 | 18.1 | 22.2 | 21.0 | 23.6 | 21.0 | 22.0 | 18.6 | 21.0 | +2.4 |
| 2.5-3.0 | 9.5 | 8.0 | 11.3 | 16.3 | 19.3 | 22.9 | 21.7 | 22.1 | 22.0 | 21.0 | 22.8 | 20.4 | 20.3 | 17.9 | 18.1 | 17.1 | 17.4 | 15.7 | 18.1 | 20.4 | 21.2 | 21.3 | 21.4 | 19.9 | 18.4 | -1.4 |
| 3.5-4.0 | 8.1 | 8.3 | 10.9 | 15.8 | 18.0 | 22.1 | 22.5 | 18.3 | 19.3 | 21.2 | 20.8 | 18.1 | 17.8 | 17.3 | 15.9 | 14.9 | 15.1 | 15.4 | 16.0 | 17.7 | 18.9 | 17.5 | 19.7 | 18.5 | 17.3 | -1.2 |
| 4.5-5.0 | 7.9 | 7.4 | 10.0 | 15.0 | 15.6 | 18.1 | 19.2 | 16.4 | 16.6 | 17.9 | 17.5 | 15.2 | 13.4 | 13.2 | 12.7 | 12.0 | 11.2 | 11.2 | 14.4 | 13.7 | 14.8 | 15.4 | 15.5 | 13.4 | 12.1 | -1.3 |
| 5.5-6.0 (High) | 8.9 | 7.5 | 9.4 | 15.5 | 13.3 | 17.4 | 17.1 | 16.2 | 18.2 | 16.7 | 17.2 | 15.5 | 13.8 | 12.7 | 13.5 | 11.8 | 11.3 | 10.1 | 13.1 | 12.9 | 13.2 | 14.0 | 12.8 | 13.7 | 9.8 | -3.8 s |
| Race (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 9.0 | 9.8 | 13.4 | 16.8 | 19.3 | 21.2 | 20.3 | 19.8 | 20.2 | 20.2 | 19.8 | 18.2 | 16.5 | 15.7 | 15.2 | 14.7 | 14.2 | 14.6 | 15.7 | 16.4 | 16.7 | 16.5 | 16.2 | 14.6 | -1.5 s |
| Black | - | 3.6 | 4.9 | 9.8 | 13.8 | 15.9 | 16.5 | 15.3 | 14.6 | 15.8 | 16.7 | 15.2 | 15.1 | 16.3 | 15.3 | 13.8 | 12.6 | 11.7 | 13.7 | 15.5 | 18.0 | 18.8 | 19.1 | 19.0 | 17.4 | -1.5 |
| Hispanic | - | 10.4 | 12.4 | 15.6 | 17.7 | 19.1 | 21.3 | 21.4 | 20.6 | 20.5 | 20.5 | 18.2 | 17.0 | 17.7 | 16.0 | 14.0 | 13.0 | 15.3 | 17.4 | 18.2 | 18.2 | 18.5 | 20.0 | 19.4 | 18.1 | -1.3 |

Source. The Monitoring the Future Study, the University of Michigan.
 classes is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

## TABLE 15

MARIJUANA: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | cont.) |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | 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 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 32.3 | 37.7 | 40.7 | 42.6 | 41.4 | 37.8 | 35.3 | 31.4 | 31.0 | 28.2 | 28.7 | 26.8 | 23.1 | 20.7 | 19.5 | 16.1 | 16.1 | 13.4 | 18.2 | 23.0 |  |
| Female | 22.5 | 26.0 | 30.0 | 31.3 | 31.3 | 29.1 | 27.3 | 24.9 | 22.2 | 21.1 | 22.4 | 20.0 | 18.6 | 15.2 | 13.8 | 11.5 | 11.2 | 10.2 | 12.5 | 15.1 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 34.5 | 38.7 | 39.2 | 39.6 | 37.7 | 36.1 | 32.9 | 30.7 | 29.2 | 29.0 | 28.3 | 25.1 | 20.4 | 21.0 | 17.6 | 15.8 | 15.0 | 17.9 | 21.6 |  |
| Complete 4 years | - | 28.4 | 31.0 | 33.2 | 32.2 | 29.4 | 27.4 | 23.9 | 22.9 | 20.9 | 22.7 | 20.0 | 18.5 | 16.4 | 14.6 | 11.9 | 12.5 | 10.4 | 14.2 | 17.7 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 32.2 | 38.6 | 40.4 | 46.7 | 44.7 | 39.3 | 38.2 | 33.3 | 32.0 | 33.3 | 32.0 | 28.5 | 25.3 | 20.2 | 18.6 | 17.6 | 17.6 | 14.4 | 19.5 | 22.7 |  |
| Midwest | 27.6 | 31.4 | 36.1 | 37.8 | 38.0 | 34.0 | 33.0 | 30.0 | 27.2 | 22.1 | 26.1 | 24.0 | 21.1 | 18.6 | 19.2 | 13.7 | 14.9 | 12.2 | 15.9 | 19.3 |  |
| South | 21.2 | 27.7 | 31.3 | 30.6 | 29.0 | 28.4 | 24.7 | 22.4 | 22.9 | 22.4 | 18.0 | 19.2 | 17.3 | 15.8 | 14.0 | 11.5 | 9.7 | 9.4 | 13.1 | 17.3 |  |
| West | 30.8 | 32.7 | 33.6 | 34.3 | 35.9 | 35.2 | 32.0 | 29.2 | 27.1 | 25.9 | 29.7 | 23.1 | 22.3 | 18.9 | 16.8 | 14.7 | 15.7 | 14.0 | 15.6 | 18.6 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 36.2 | 37.9 | 40.4 | 44.0 | 42.2 | 39.6 | 36.3 | 34.3 | 31.7 | 28.5 | 28.5 | 26.7 | 23.1 | 19.4 | 15.2 | 14.1 | 14.3 | 12.9 | 18.0 | 20.7 |  |
| Other MSA | 26.4 | 32.5 | 36.2 | 37.1 | 37.5 | 34.5 | 31.4 | 28.3 | 28.1 | 25.1 | 25.9 | 22.9 | 21.3 | 19.3 | 17.5 | 14.6 | 16.3 | 11.5 | 15.3 | 19.8 |  |
| Non-MSA | 22.2 | 27.5 | 30.2 | 31.4 | 30.9 | 28.3 | 28.0 | 23.8 | 21.8 | 22.5 | 23.0 | 21.5 | 18.2 | 14.3 | 16.7 | 12.6 | 9.0 | 12.0 | 13.8 | 15.7 |  |
| Parental Education: a ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 22.3 | 29.0 | 30.4 | 30.7 | 33.2 | 29.9 | 29.7 | 24.9 | 26.2 | 23.8 | 23.4 | 21.0 | 19.9 | 15.6 | 13.9 | 11.4 | 11.7 | 9.7 | 12.4 | 14.0 |  |
| 2.5-3.0 | 26.5 | 33.7 | 36.7 | 37.7 | 35.8 | 34.6 | 31.5 | 28.4 | 27.3 | 25.4 | 25.9 | 24.1 | 20.9 | 16.8 | 16.3 | 14.3 | 12.9 | 11.9 | 14.0 | 18.5 |  |
| 3.5-4.0 | 25.1 | 32.3 | 36.9 | 37.7 | 37.8 | 33.6 | 31.4 | 29.3 | 26.1 | 25.8 | 26.5 | 24.1 | 21.1 | 17.7 | 17.9 | 13.5 | 13.8 | 12.2 | 16.9 | 19.3 |  |
| 4.5-5.0 | 27.3 | 32.6 | 34.3 | 39.0 | 37.3 | 33.7 | 31.9 | 30.1 | 26.9 | 23.3 | 27.1 | 23.1 | 21.1 | 19.3 | 17.1 | 15.0 | 13.7 | 12.1 | 15.9 | 20.4 |  |
| 5.5-6.0 (High) | 24.7 | 32.1 | 36.0 | 39.7 | 37.6 | 36.2 | 31.9 | 27.7 | 25.5 | 23.4 | 20.6 | 21.7 | 21.2 | 20.6 | 16.2 | 15.0 | 17.6 | 11.6 | 16.1 | 20.3 |  |
| Race (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 34.0 | 36.9 | 37.6 | 35.8 | 33.3 | 30.8 | 27.9 | 26.0 | 25.9 | 25.5 | 23.4 | 21.1 | 19.2 | 17.1 | 15.3 | 14.1 | 14.9 | 18.4 |  |
| Black | - | - | 29.2 | 29.7 | 28.2 | 27.0 | 25.7 | 24.8 | 25.8 | 24.8 | 22.3 | 19.4 | 14.5 | 11.0 | 9.6 | 7.5 | 5.9 | 6.0 | 8.1 | 13.1 |  |
| Hispanic | - | - | 33.3 | 30.8 | 29.0 | 29.5 | 27.7 | 26.2 | 25.3 | 23.8 | 21.9 | 21.3 | 20.2 | 16.1 | 12.4 | 11.7 | 12.9 | 12.7 | 12.5 | 14.9 |  |

(Table continued on next page.)

## TABLE 15 (cont.)

MARIJUANA: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

- 2014-
$\begin{array}{lllllllllllllllllllllllllllllll}1995 & \underline{1996} & \underline{1997} & \underline{1998} & \underline{1999} & \underline{2000} & \underline{2001} & \underline{2002} & \underline{2003} & \underline{2004} & \underline{2005} & \underline{2006} & \underline{2007} & \underline{2008} & \underline{2009} & \underline{2010} & \underline{2011} & \underline{2012} & \underline{2013} & \underline{2014} & \underline{2015} & \underline{\text { change }}\end{array}$


| Total | 21.2 | 21.9 | 23.7 | 22.8 | 23.1 | 21.6 | 22.4 | 21.5 | 21.2 | 19.9 | 19.8 | 18.3 | 18.8 | 19.4 | 20.6 | 21.4 | 22.6 | 22.9 | 22.7 | 21.2 | 21.3 | +0.1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 24.6 | 25.1 | 26.4 | 26.5 | 26.3 | 24.7 | 25.6 | 25.3 | 24.7 | 23.0 | 23.6 | 19.7 | 22.3 | 22.2 | 24.3 | 25.2 | 26.4 | 26.5 | 26.4 | 24.3 | 23.1 | -1.2 |
| Female | 17.2 | 18.3 | 20.3 | 18.8 | 19.7 | 18.3 | 19.1 | 17.4 | 17.3 | 16.6 | 15.8 | 16.4 | 15.0 | 16.2 | 16.8 | 16.9 | 18.4 | 18.8 | 18.7 | 17.9 | 19.2 | +1.3 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 23.7 | 26.4 | 29.3 | 28.3 | 26.6 | 26.0 | 27.5 | 27.0 | 26.9 | 24.1 | 24.9 | 24.8 | 25.9 | 24.9 | 24.6 | 28.1 | 27.5 | 27.0 | 28.0 | 26.8 | 24.6 | -2.2 |
| Complete 4 years | 19.6 | 20.0 | 21.5 | 20.5 | 21.8 | 19.6 | 20.4 | 19.6 | 18.9 | 18.3 | 18.1 | 16.4 | 16.8 | 17.7 | 19.2 | 19.3 | 21.1 | 21.4 | 21.3 | 19.5 | 20.0 | +0.6 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 23.8 | 25.9 | 27.0 | 27.2 | 24.2 | 26.0 | 28.4 | 25.6 | 26.5 | 25.1 | 25.0 | 24.8 | 23.7 | 23.1 | 24.6 | 26.1 | 26.4 | 24.0 | 25.8 | 25.6 | 26.2 | +0.7 |
| Midwest | 22.6 | 23.3 | 21.8 | 21.1 | 23.2 | 19.3 | 22.7 | 22.4 | 21.6 | 18.1 | 19.2 | 17.4 | 18.6 | 17.5 | 20.2 | 20.0 | 21.7 | 19.5 | 20.0 | 21.0 | 19.6 | -1.4 |
| South | 19.4 | 19.5 | 20.9 | 21.3 | 22.1 | 17.4 | 18.1 | 20.0 | 17.8 | 17.7 | 18.2 | 17.1 | 17.0 | 19.2 | 19.3 | 19.6 | 20.9 | 22.3 | 21.0 | 19.8 | 18.5 | -1.2 |
| West | 19.8 | 19.7 | 27.8 | 23.9 | 24.2 | 27.2 | 23.5 | 19.3 | 21.1 | 20.9 | 18.0 | 16.0 | 17.7 | 19.2 | 19.7 | 21.7 | 23.4 | 26.6 | 25.8 | 20.0 | 23.8 | +3.8 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 23.6 | 22.9 | 21.7 | 23.4 | 23.2 | 22.6 | 23.4 | 22.9 | 19.6 | 19.1 | 20.4 | 19.6 | 20.9 | 21.8 | 24.0 | 22.8 | 23.3 | 25.9 | 25.7 | 22.0 | 24.5 | +2.5 |
| Other MSA | 21.5 | 23.7 | 25.6 | 23.9 | 24.4 | 22.6 | 22.5 | 22.7 | 23.7 | 22.3 | 20.8 | 18.4 | 18.2 | 18.6 | 20.3 | 22.7 | 24.3 | 23.5 | 23.5 | 22.4 | 20.4 | -2.0 |
| Non-MSA | 17.8 | 17.6 | 22.0 | 19.8 | 21.0 | 18.6 | 21.2 | 17.4 | 18.7 | 16.4 | 16.9 | 16.3 | 16.7 | 18.5 | 16.8 | 15.9 | 17.5 | 16.7 | 16.4 | 17.1 | 17.9 | +0.9 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 18.1 | 17.4 | 19.9 | 19.7 | 22.2 | 21.5 | 20.9 | 17.8 | 20.0 | 16.6 | 16.3 | 17.9 | 18.2 | 18.5 | 16.9 | 18.6 | 20.5 | 26.7 | 22.6 | 23.0 | 21.9 | -1.1 |
| 2.5-3.0 | 19.6 | 20.6 | 23.6 | 22.1 | 23.6 | 20.9 | 21.7 | 21.5 | 20.6 | 19.3 | 20.2 | 19.6 | 20.1 | 18.7 | 22.0 | 21.2 | 23.0 | 23.2 | 25.2 | 23.0 | 22.9 | -0.1 |
| 3.5-4.0 | 21.5 | 22.9 | 23.6 | 23.9 | 23.0 | 21.5 | 23.6 | 23.7 | 22.1 | 21.2 | 20.2 | 18.6 | 18.5 | 18.8 | 21.7 | 22.8 | 23.5 | 23.2 | 23.5 | 21.4 | 21.4 | 0.0 |
| 4.5-5.0 | 21.3 | 22.1 | 24.7 | 22.6 | 22.4 | 21.4 | 22.3 | 20.6 | 21.0 | 19.8 | 20.4 | 16.3 | 18.3 | 19.3 | 19.1 | 20.8 | 21.0 | 22.3 | 20.8 | 19.7 | 20.3 | +0.6 |
| 5.5-6.0 (High) | 23.1 | 22.6 | 22.9 | 22.9 | 23.4 | 21.3 | 20.5 | 19.6 | 18.3 | 19.8 | 18.9 | 18.2 | 17.9 | 21.0 | 20.3 | 18.4 | 23.1 | 20.3 | 21.3 | 19.8 | 18.6 | -1.2 |
| Race (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 20.8 | 22.0 | 23.6 | 24.4 | 23.8 | 22.7 | 22.9 | 23.3 | 22.8 | 22.1 | 21.6 | 20.5 | 19.5 | 20.1 | 20.8 | 21.4 | 22.2 | 22.6 | 21.8 | 21.3 | 21.0 | -0.3 |
| Black | 16.8 | 18.3 | 18.5 | 18.3 | 19.3 | 19.0 | 17.0 | 16.5 | 16.3 | 15.2 | 14.6 | 15.9 | 16.0 | 16.3 | 18.6 | 20.1 | 21.0 | 22.3 | 24.0 | 23.0 | 20.8 | -2.2 |
| Hispanic | 17.9 | 19.1 | 21.2 | 21.6 | 22.0 | 24.6 | 22.1 | 20.0 | 17.9 | 16.6 | 16.6 | 16.0 | 15.3 | 15.3 | 16.7 | 18.5 | 19.6 | 22.0 | 24.3 | 22.6 | 20.9 | -1.8 |

Source. The Monitoring the Future Study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01$, $s s s=.001$. '-' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

## TABLE 16

## MARIJUANA: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 8

|  | Percentage who used daily in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014- |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | change |
| Approximate weighted $N=$ | 17,500 | 18,600 | 18,300 | 17,300 | 17,500 | 17,800 | 18,600 | 18,100 | 16,700 | 16,700 | 16,200 | 15,100 | 16,500 | 17,000 | 16,800 | 16,500 | 16,100 | 15,700 | 15,000 | 15,300 | 16,000 | 15,100 | 14,600 | 14,600 | 14,400 |  |
| Total | 0.2 | 0.2 | 0.4 | 0.7 | 0.8 | 1.5 | 1.1 | 1.1 | 1.4 | 1.3 | 1.3 | 1.2 | 1.0 | 0.8 | 1.0 | 1.0 | 0.8 | 0.9 | 1.0 | 1.2 | 1.3 | 1.1 | 1.1 | 1.0 | 1.1 | +0.1 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 0.3 | 0.3 | 0.5 | 1.0 | 1.1 | 2.0 | 1.4 | 1.4 | 1.9 | 2.0 | 2.0 | 1.7 | 1.3 | 0.9 | 1.4 | 1.3 | 1.2 | 1.2 | 1.4 | 1.8 | 1.8 | 1.6 | 1.3 | 1.2 | 1.3 | +0.1 |
| Female | 0.1 | 0.1 | 0.3 | 0.5 | 0.4 | 0.9 | 0.6 | 0.7 | 0.8 | 0.7 | 0.6 | 0.7 | 0.6 | 0.6 | 0.6 | 0.7 | 0.5 | 0.6 | 0.5 | 0.7 | 0.7 | 0.5 | 0.9 | 0.7 | 0.9 | +0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 0.9 | 1.1 | 1.2 | 2.1 | 3.1 | 4.4 | 4.2 | 4.2 | 5.6 | 5.1 | 5.1 | 5.1 | 3.6 | 3.3 | 3.9 | 5.3 | 3.2 | 4.7 | 4.7 | 5.2 | 5.2 | 5.6 | 4.9 | 2.9 | 3.4 | +0.5 |
| Complete 4 years | 0.1 | 0.1 | 0.3 | 0.5 | 0.5 | 1.0 | 0.6 | 0.7 | 0.8 | 0.9 | 0.8 | 0.8 | 0.7 | 0.4 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.9 | 1.0 | 0.7 | 0.8 | 0.8 | 0.8 | 0.0 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 0.1 | 0.1 | 0.3 | 0.8 | 0.5 | 0.9 | 0.9 | 0.8 | 1.0 | 0.8 | 1.4 | 1.2 | 0.8 | 0.5 | 0.7 | 0.7 | 0.5 | 0.3 | 0.9 | 0.9 | 0.5 | 0.8 | 0.6 | 0.9 | 0.8 | -0.1 |
| Midwest | 0.1 | 0.2 | 0.2 | 0.7 | 0.8 | 1.6 | 1.2 | 1.1 | 1.7 | 1.4 | 1.3 | 1.0 | 1.0 | 0.6 | 1.0 | 0.8 | 0.9 | 1.3 | 1.0 | 1.3 | 1.2 | 0.5 | 0.9 | 1.3 | 1.1 | -0.1 |
| South | 0.3 | 0.2 | 0.4 | 0.6 | 0.8 | 1.4 | 0.9 | 1.4 | 1.5 | 1.4 | 1.5 | 1.6 | 1.1 | 0.9 | 1.2 | 1.4 | 0.9 | 1.0 | 1.0 | 1.4 | 1.4 | 1.2 | 1.3 | 0.8 | 1.2 | +0.4 |
| West | 0.2 | 0.3 | 0.7 | 1.1 | 1.2 | 2.1 | 1.3 | 0.9 | 1.0 | 1.6 | 0.9 | 1.0 | 0.9 | 0.9 | 0.8 | 0.9 | 0.7 | 0.8 | 0.9 | 1.1 | 1.9 | 1.6 | 1.5 | 1.1 | 1.1 | -0.1 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 0.2 | 0.1 | 0.3 | 0.7 | 1.1 | 1.7 | 0.8 | 0.8 | 1.1 | 1.0 | 0.8 | 1.0 | 0.8 | 0.7 | 0.9 | 0.8 | 0.5 | 0.9 | 0.6 | 0.8 | 1.1 | 0.9 | 1.0 | 1.3 | 1.5 | +0.2 |
| Other MSA | 0.2 | 0.2 | 0.5 | 0.9 | 0.9 | 1.6 | 1.2 | 1.1 | 1.5 | 1.3 | 1.6 | 1.3 | 1.0 | 0.8 | 1.2 | 1.3 | 0.8 | 0.8 | 1.2 | 1.3 | 1.5 | 1.2 | 1.2 | 0.8 | 0.9 | +0.1 |
| Non-MSA | 0.2 | 0.3 | 0.2 | 0.5 | 0.5 | 1.0 | 1.1 | 1.4 | 1.3 | 1.8 | 1.4 | 1.4 | 1.2 | 0.8 | 0.7 | 0.9 | 1.4 | 1.0 | 1.0 | 1.7 | 1.0 | 1.2 | 1.3 | 0.9 | 0.9 | 0.0 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 0.5 | 0.5 | 0.7 | 0.8 | 2.0 | 1.6 | 2.2 | 2.2 | 3.2 | 4.6 | 2.0 | 2.3 | 1.9 | 1.6 | 1.4 | 2.6 | 1.3 | 2.6 | 1.9 | 2.5 | 2.2 | 1.9 | 2.3 | 2.0 | 2.5 | +0.5 |
| 2.5-3.0 | 0.3 | 0.3 | 0.4 | 0.8 | 0.9 | 2.0 | 0.9 | 1.5 | 1.3 | 1.6 | 1.9 | 1.7 | 1.4 | 0.8 | 1.2 | 1.3 | 0.9 | 1.4 | 1.4 | 2.1 | 2.3 | 1.6 | 1.5 | 0.9 | 1.0 | +0.1 |
| 3.5-4.0 | 0.2 | 0.1 | 0.5 | 1.1 | 0.7 | 1.4 | 1.3 | 1.1 | 1.5 | 0.9 | 1.3 | 1.4 | 1.0 | 0.7 | 1.2 | 0.9 | 1.0 | 0.7 | 0.8 | 1.0 | 1.3 | 1.0 | 1.0 | 1.1 | 0.8 | -0.4 |
| 4.5-5.0 | 0.1 | 0.1 | 0.1 | 0.5 | 0.6 | 0.8 | 0.8 | 0.5 | 0.8 | 0.5 | 0.8 | 0.7 | 0.7 | 0.5 | 0.5 | 0.6 | 0.4 | 0.4 | 0.6 | 0.7 | 0.8 | 0.3 | 0.8 | 0.6 | 0.6 | 0.0 |
| 5.5-6.0 (High) | * | 0.1 | 0.3 | 0.5 | 0.6 | 1.2 | 0.6 | 0.6 | 0.7 | 0.8 | 0.5 | 0.4 | 0.6 | 0.3 | 0.2 | 0.3 | 0.5 | 0.5 | 0.6 | 0.3 | 0.5 | 0.6 | 0.5 | 0.7 | 0.7 | 0.0 |
| Race (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 0.2 | 0.2 | 0.4 | 0.7 | 1.0 | 1.1 | 0.9 | 1.0 | 1.2 | 1.3 | 1.3 | 1.0 | 0.7 | 0.7 | 1.0 | 0.9 | 0.7 | 0.8 | 1.0 | 1.1 | 1.0 | 0.8 | 0.7 | 0.6 | 0.0 |
| Black | - | 0.1 | 0.2 | 0.4 | 0.7 | 1.2 | 1.3 | 0.9 | 1.0 | 1.0 | 1.1 | 1.2 | 1.2 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.2 | 1.0 | 1.0 | 1.1 | 1.2 | 0.0 |
| Hispanic | - | 0.3 | 0.6 | 1.1 | 1.2 | 1.6 | 1.8 | 1.6 | 2.0 | 1.9 | 1.6 | 1.5 | 1.2 | 1.1 | 1.3 | 1.1 | 0.7 | 1.0 | 1.3 | 1.4 | 1.9 | 2.1 | 1.7 | 1.4 | 1.3 | -0.1 |

Source. The Monitoring the Future Study, the University of Michigan.
 prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 17
MARIJUANA: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 10

Percentage who used daily in last 30 days
2014-
2015
$\underline{1901} \quad \underline{1992} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015} \quad \underline{c h a n g e}$


| Total | 0.8 | 0.8 | 1.0 | 2.2 | 2.8 | 3.5 | 3.7 | 3.6 | 3.8 | 3.8 | 4.5 | 3.9 | 3.6 | 3.2 | 3.1 | 2.8 | 2.8 | 2.7 | 2.8 | 3.3 | 3.6 | 3.5 | 4.0 | 3.4 | 3.0 | -0.4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1.1 | 1.1 | 1.6 | 3.1 | 3.7 | 4.7 | 5.2 | 4.8 | 5.2 | 5.3 | 6.4 | 5.1 | 5.1 | 4.1 | 4.1 | 3.5 | 3.9 | 3.8 | 4.1 | 5.1 | 5.4 | 4.6 | 6.2 | 4.3 | 3.6 | -0.7 |
| Female | 0.5 | 0.4 | 0.4 | 1.2 | 1.7 | 2.3 | 2.1 | 2.4 | 2.4 | 2.3 | 2.6 | 2.6 | 2.2 | 2.2 | 2.0 | 2.0 | 1.8 | 1.7 | 1.7 | 1.6 | 1.7 | 2.4 | 2.0 | 2.4 | 2.4 | 0.0 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 1.6 | 2.3 | 2.7 | 5.5 | 6.5 | 10.2 | 9.5 | 9.7 | 10.3 | 10.4 | 11.7 | 9.4 | 9.9 | 9.0 | 9.5 | 8.9 | 8.3 | 9.2 | 7.9 | 9.5 | 9.5 | 10.5 | 10.0 | 8.8 | 8.8 | 0.0 |
| Complete 4 years | 0.6 | 0.4 | 0.6 | 1.4 | 2.1 | 2.3 | 2.6 | 2.4 | 2.7 | 2.7 | 3.3 | 2.9 | 2.6 | 2.3 | 2.1 | 1.9 | 2.1 | 1.9 | 2.2 | 2.6 | 2.9 | 2.8 | 3.3 | 2.8 | 2.4 | -0.4 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 0.8 | 0.7 | 1.6 | 2.5 | 1.9 | 3.7 | 3.9 | 5.0 | 3.9 | 3.9 | 3.8 | 3.6 | 3.7 | 3.3 | 3.3 | 2.8 | 3.2 | 2.8 | 1.9 | 2.9 | 4.3 | 3.2 | 2.8 | 3.4 | 3.0 | -0.4 |
| Midwest | 0.9 | 0.6 | 1.0 | 2.0 | 2.9 | 3.8 | 3.8 | 3.4 | 4.2 | 4.2 | 4.1 | 4.2 | 2.8 | 3.0 | 3.3 | 2.6 | 2.9 | 2.6 | 2.5 | 2.9 | 2.9 | 3.2 | 3.9 | 3.2 | 2.0 | -1.2 s |
| South | 0.6 | 0.6 | 0.7 | 2.2 | 3.2 | 3.0 | 3.9 | 3.4 | 3.6 | 3.4 | 4.5 | 3.2 | 4.2 | 3.4 | 2.9 | 3.0 | 2.7 | 3.2 | 3.5 | 3.3 | 3.6 | 4.1 | 5.0 | 3.7 | 3.7 | 0.0 |
| West | 1.1 | 1.3 | 1.1 | 2.1 | 2.7 | 3.8 | 2.7 | 2.9 | 3.7 | 3.7 | 6.2 | 5.2 | 3.8 | 3.0 | 2.9 | 2.5 | 2.7 | 2.4 | 3.1 | 4.3 | 3.8 | 3.5 | 3.7 | 3.3 | 3.0 | -0.3 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 0.8 | 0.5 | 1.2 | 2.1 | 2.5 | 3.0 | 3.6 | 3.4 | 3.1 | 4.2 | 4.4 | 3.4 | 3.0 | 2.5 | 3.0 | 2.8 | 2.3 | 2.5 | 2.2 | 2.8 | 3.6 | 2.9 | 3.4 | 3.3 | 2.6 | -0.7 |
| Other MSA | 0.9 | 0.8 | 0.9 | 2.3 | 3.1 | 3.7 | 3.8 | 3.9 | 4.1 | 3.4 | 4.4 | 4.4 | 3.6 | 3.3 | 3.0 | 2.6 | 2.9 | 3.0 | 3.0 | 3.7 | 3.5 | 3.6 | 4.4 | 3.6 | 3.2 | -0.5 |
| Non-MSA | 0.7 | 0.9 | 1.1 | 2.0 | 2.4 | 3.7 | 3.6 | 3.3 | 3.9 | 4.0 | 4.8 | 3.7 | 4.8 | 3.8 | 3.4 | 3.2 | 3.5 | 2.6 | 3.4 | 3.3 | 3.6 | 4.3 | 3.9 | 3.2 | 3.5 | +0.2 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 1.1 | 1.1 | 1.4 | 2.0 | 4.1 | 3.6 | 3.2 | 3.8 | 4.6 | 4.9 | 6.0 | 4.6 | 5.5 | 5.3 | 3.7 | 4.2 | 4.9 | 4.2 | 4.6 | 4.5 | 5.8 | 5.5 | 5.8 | 4.3 | 5.1 | +0.7 |
| 2.5-3.0 | 0.9 | 0.8 | 1.0 | 2.6 | 3.6 | 4.6 | 4.3 | 4.9 | 5.5 | 4.3 | 5.3 | 4.9 | 4.8 | 3.8 | 4.8 | 3.9 | 3.4 | 3.7 | 3.4 | 4.6 | 4.3 | 5.3 | 5.7 | 4.4 | 4.8 | +0.5 |
| 3.5-4.0 | 0.8 | 0.9 | 1.1 | 2.4 | 2.8 | 4.1 | 4.2 | 3.4 | 3.5 | 4.2 | 4.7 | 3.9 | 3.4 | 3.4 | 3.3 | 2.9 | 3.2 | 3.2 | 2.9 | 3.8 | 3.7 | 3.2 | 4.4 | 4.6 | 3.3 | -1.3 s |
| 4.5-5.0 | 0.8 | 0.6 | 0.6 | 1.8 | 1.9 | 2.4 | 3.0 | 3.1 | 2.6 | 3.4 | 3.8 | 2.7 | 2.9 | 2.0 | 2.0 | 1.8 | 2.0 | 1.8 | 2.1 | 2.4 | 2.5 | 3.0 | 2.8 | 2.0 | 1.7 | -0.3 |
| 5.5-6.0 (High) | 0.4 | 0.8 | 1.0 | 1.0 | 2.0 | 2.1 | 2.2 | 2.3 | 2.5 | 2.1 | 3.3 | 3.2 | 2.4 | 1.7 | 1.8 | 1.9 | 1.6 | 1.3 | 1.9 | 1.7 | 2.9 | 1.8 | 2.2 | 1.4 | 1.8 | +0.4 |
| Race (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 0.9 | 1.0 | 1.6 | 2.5 | 3.2 | 3.7 | 3.7 | 3.8 | 4.0 | 4.3 | 4.4 | 4.1 | 3.5 | 3.1 | 3.0 | 3.1 | 2.8 | 2.6 | 2.9 | 3.3 | 3.4 | 3.5 | 3.5 | 3.2 | -0.3 |
| Black | - | 0.3 | 0.3 | 0.8 | 1.7 | 2.2 | 2.8 | 3.4 | 3.0 | 3.2 | 3.6 | 3.0 | 2.9 | 2.8 | 2.8 | 2.8 | 2.5 | 2.8 | 2.9 | 3.2 | 3.8 | 4.0 | 4.7 | 4.4 | 3.0 | -1.4 sss |
| Hispanic | - | 0.8 | 1.1 | 1.9 | 2.5 | 2.8 | 3.5 | 3.6 | 3.2 | 3.2 | 4.2 | 3.9 | 3.0 | 2.9 | 3.1 | 2.6 | 1.9 | 2.5 | 2.9 | 3.2 | 3.3 | 3.2 | 3.7 | 3.7 | 3.3 | -0.4 |

Source. The Monitoring the Future Study, the University of Michigan.
 classes is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.
${ }^{\text {ap }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

## TABLE 18

MARIJUANA: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 12

|  | Percentage who used daily in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{1975}$ | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | (Years cont.) |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | 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 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 8.1 | 10.8 | 12.4 | 14.2 | 12.7 | 11.9 | 9.6 | 8.2 | 7.3 | 7.0 | 6.9 | 5.7 | 4.3 | 3.9 | 4.1 | 3.2 | 3.0 | 2.8 | 3.3 | 5.1 |  |
| Female | 4.0 | 5.0 | 5.6 | 7.1 | 7.3 | 6.0 | 4.2 | 4.0 | 3.2 | 2.5 | 2.8 | 2.3 | 2.1 | 1.3 | 1.5 | 1.0 | 0.9 | 1.0 | 1.5 | 2.0 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 9.9 | 11.1 | 12.8 | 13.0 | 11.9 | 9.4 | 8.6 | 7.3 | 6.9 | 6.7 | 6.2 | 5.2 | 4.0 | 4.6 | 3.5 | 3.3 | 3.5 | 3.6 | 4.9 |  |
| Complete 4 years | - | 5.5 | 6.3 | 7.4 | 6.8 | 5.9 | 4.8 | 3.9 | 3.4 | 2.9 | 3.3 | 2.3 | 2.0 | 1.8 | 2.0 | 1.5 | 1.4 | 1.2 | 2.0 | 2.9 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 6.7 | 10.2 | 9.9 | 14.5 | 13.6 | 11.1 | 9.1 | 8.0 | 6.9 | 7.5 | 6.8 | 5.0 | 4.1 | 2.5 | 3.3 | 2.7 | 2.4 | 2.4 | 3.0 | 4.1 |  |
| Midwest | 6.2 | 8.1 | 8.8 | 11.4 | 11.5 | 9.5 | 8.2 | 6.8 | 5.5 | 4.4 | 5.5 | 4.0 | 3.1 | 2.5 | 3.2 | 2.3 | 1.9 | 1.8 | 2.3 | 4.1 |  |
| South | 5.0 | 6.7 | 9.1 | 8.5 | 7.0 | 7.5 | 4.5 | 4.8 | 4.5 | 4.1 | 3.0 | 2.8 | 2.9 | 2.6 | 2.6 | 1.7 | 1.8 | 1.3 | 1.7 | 3.0 |  |
| West | 6.5 | 8.0 | 8.1 | 8.2 | 9.3 | 8.6 | 6.4 | 5.4 | 5.1 | 4.7 | 4.5 | 4.6 | 3.4 | 3.1 | 2.5 | 2.4 | 2.1 | 2.6 | 3.3 | 3.3 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 8.4 | 10.7 | 9.5 | 12.7 | 10.6 | 10.3 | 8.3 | 7.9 | 7.3 | 5.7 | 5.8 | 4.6 | 3.8 | 2.6 | 2.3 | 2.4 | 1.9 | 1.9 | 2.5 | 3.7 |  |
| Other MSA | 5.9 | 8.2 | 10.0 | 10.9 | 11.3 | 9.5 | 7.1 | 6.0 | 5.7 | 5.0 | 5.0 | 3.9 | 3.5 | 3.4 | 3.0 | 2.0 | 2.5 | 1.7 | 2.4 | 3.9 |  |
| Non-MSA | 4.5 | 6.3 | 7.6 | 9.0 | 8.6 | 7.7 | 6.0 | 5.3 | 3.8 | 4.4 | 3.8 | 3.6 | 2.6 | 1.4 | 3.3 | 2.4 | 1.2 | 2.1 | 2.3 | 2.8 |  |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 4.4 | 6.8 | 6.9 | 8.6 | 8.4 | 8.2 | 6.2 | 6.2 | 5.7 | 5.1 | 4.2 | 4.1 | 4.0 | 2.5 | 2.4 | 2.0 | 2.3 | 1.6 | 2.3 | 2.3 |  |
| 2.5-3.0 | 5.7 | 8.2 | 9.9 | 11.3 | 10.9 | 10.0 | 7.5 | 6.5 | 5.4 | 5.4 | 5.5 | 4.4 | 2.9 | 2.7 | 2.6 | 2.3 | 2.4 | 1.9 | 2.1 | 3.8 |  |
| 3.5-4.0 | 5.0 | 8.0 | 9.0 | 10.3 | 10.1 | 8.7 | 6.4 | 6.4 | 5.2 | 4.6 | 4.7 | 3.7 | 3.5 | 2.4 | 2.6 | 1.9 | 1.8 | 1.8 | 2.8 | 3.6 |  |
| 4.5-5.0 | 5.5 | 8.8 | 8.6 | 10.4 | 9.0 | 7.8 | 6.4 | 5.7 | 5.0 | 4.0 | 4.2 | 3.5 | 2.9 | 2.6 | 3.3 | 2.1 | 1.7 | 1.6 | 2.3 | 3.6 |  |
| 5.5-6.0 (High) | 4.3 | 8.1 | 9.0 | 10.2 | 10.4 | 8.0 | 7.1 | 4.8 | 3.7 | 4.0 | 3.6 | 2.3 | 2.7 | 2.3 | 2.7 | 2.5 | 1.6 | 2.0 | 2.1 | 3.1 |  |
| Race (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 8.6 | 10.2 | 10.8 | 9.7 | 8.0 | 6.8 | 5.9 | 5.1 | 4.9 | 4.5 | 3.7 | 3.2 | 3.1 | 2.8 | 2.2 | 2.0 | 2.4 | 3.2 |  |
| Black | - | - | 6.4 | 6.0 | 5.1 | 5.8 | 5.4 | 4.3 | 4.1 | 3.6 | 3.3 | 3.1 | 2.3 | 1.3 | 0.9 | 0.7 | 0.7 | 0.5 | 0.8 | 2.0 |  |
| Hispanic | - | - | 6.9 | 6.3 | 6.5 | 8.3 | 6.9 | 5.7 | 5.3 | 4.7 | 3.9 | 3.3 | 3.0 | 2.1 | 1.9 | 2.0 | 2.2 | 2.1 | 1.9 | 2.0 |  |

(Table continued on next page.)

TABLE 18 (cont.)
MARIJUANA: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 12

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $2014-$2015change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | 2001 | 2002 | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | 2007 | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | 2013 | 2014 | $\underline{2015}$ |  |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 4.6 | 4.9 | 5.8 | 5.6 | 6.0 | 6.0 | 5.8 | 6.0 | 6.0 | 5.6 | 5.0 | 5.0 | 5.1 | 5.4 | 5.2 | 6.1 | 6.6 | 6.5 | 6.5 | 5.8 | 6.0 | +0.2 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 6.5 | 6.8 | 8.1 | 7.7 | 7.9 | 8.2 | 7.9 | 8.7 | 8.3 | 7.7 | 7.2 | 6.3 | 6.8 | 7.6 | 7.5 | 8.8 | 9.7 | 9.1 | 8.9 | 8.5 | 8.1 | -0.4 |
| Female | 2.4 | 2.7 | 3.1 | 3.2 | 3.9 | 3.5 | 3.6 | 3.1 | 3.4 | 3.1 | 2.8 | 3.2 | 3.2 | 3.0 | 2.6 | 3.2 | 3.3 | 3.6 | 3.8 | 3.3 | 3.8 | +0.5 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 6.8 | 7.1 | 8.0 | 9.8 | 9.2 | 9.8 | 8.8 | 10.3 | 9.4 | 8.1 | 8.4 | 9.3 | 9.6 | 9.2 | 8.3 | 10.5 | 11.5 | 9.0 | 10.7 | 9.8 | 9.7 | -0.1 |
| Complete 4 years | 3.5 | 3.9 | 4.7 | 4.0 | 4.7 | 4.4 | 4.4 | 4.6 | 4.5 | 4.5 | 4.0 | 3.7 | 3.8 | 4.2 | 4.1 | 4.7 | 5.4 | 5.5 | 5.1 | 4.6 | 5.0 | +0.3 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 5.1 | 6.2 | 6.9 | 6.8 | 5.7 | 7.3 | 7.7 | 7.4 | 7.8 | 6.8 | 5.5 | 7.9 | 7.0 | 6.8 | 5.3 | 7.5 | 7.1 | 7.1 | 8.0 | 7.0 | 7.0 | 0.0 |
| Midwest | 4.1 | 5.2 | 5.2 | 5.3 | 6.2 | 5.9 | 6.8 | 6.2 | 5.7 | 5.1 | 5.4 | 4.9 | 5.7 | 4.8 | 6.0 | 5.8 | 6.8 | 6.0 | 5.5 | 6.2 | 5.6 | -0.5 |
| South | 4.3 | 3.8 | 5.3 | 4.9 | 5.2 | 4.6 | 3.9 | 5.6 | 5.4 | 5.0 | 5.4 | 4.2 | 4.3 | 5.5 | 5.0 | 6.1 | 6.3 | 6.1 | 6.4 | 5.3 | 5.5 | +0.1 |
| West | 5.3 | 4.8 | 6.3 | 6.5 | 7.6 | 7.4 | 5.9 | 5.1 | 5.6 | 6.1 | 3.6 | 3.7 | 4.0 | 4.9 | 4.4 | 5.4 | 6.5 | 7.0 | 6.5 | 5.4 | 6.6 | +1.2 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 5.3 | 5.5 | 4.6 | 5.4 | 5.4 | 5.7 | 5.9 | 6.0 | 4.4 | 5.3 | 5.3 | 4.9 | 4.7 | 5.6 | 5.4 | 6.3 | 6.2 | 7.4 | 6.6 | 5.2 | 6.4 | +1.2 |
| Other MSA | 4.5 | 5.0 | 6.6 | 5.9 | 5.8 | 6.3 | 5.7 | 6.1 | 7.6 | 6.3 | 5.0 | 5.0 | 5.1 | 5.3 | 5.3 | 6.7 | 7.5 | 6.4 | 7.1 | 6.6 | 5.9 | -0.7 |
| Non-MSA | 3.9 | 4.1 | 5.4 | 5.4 | 7.1 | 5.9 | 6.0 | 5.6 | 5.2 | 4.7 | 4.7 | 5.1 | 5.5 | 5.6 | 4.6 | 4.3 | 5.0 | 5.2 | 4.7 | 4.8 | 5.8 | +1.0 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 4.0 | 3.9 | 4.9 | 6.2 | 8.8 | 7.7 | 5.5 | 4.5 | 5.0 | 5.5 | 4.3 | 4.6 | 5.6 | 4.8 | 3.5 | 4.6 | 5.1 | 5.2 | 7.8 | 5.8 | 6.1 | +0.4 |
| 2.5-3.0 | 4.9 | 5.1 | 5.8 | 5.7 | 6.2 | 6.3 | 5.8 | 7.0 | 6.0 | 5.5 | 5.7 | 6.0 | 5.8 | 5.4 | 5.5 | 6.1 | 7.4 | 7.6 | 8.7 | 6.5 | 7.1 | +0.5 |
| 3.5-4.0 | 4.0 | 5.0 | 5.7 | 5.8 | 5.5 | 5.9 | 5.7 | 6.7 | 6.4 | 6.0 | 5.0 | 4.9 | 5.0 | 4.9 | 5.5 | 6.6 | 6.9 | 7.2 | 6.9 | 6.4 | 5.9 | -0.6 |
| 4.5-5.0 | 4.3 | 4.8 | 6.1 | 5.0 | 5.5 | 5.3 | 5.4 | 4.8 | 5.5 | 5.5 | 5.1 | 4.3 | 4.3 | 5.8 | 4.7 | 5.4 | 5.8 | 6.1 | 4.3 | 4.6 | 5.0 | +0.4 |
| 5.5-6.0 (High) | 3.9 | 4.1 | 4.8 | 4.1 | 4.6 | 4.1 | 4.4 | 4.6 | 3.9 | 3.7 | 3.8 | 3.6 | 3.8 | 4.9 | 4.1 | 4.7 | 6.0 | 4.4 | 4.8 | 4.5 | 4.9 | +0.3 |
| Race (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 4.1 | 4.7 | 5.5 | 5.9 | 5.8 | 6.0 | 6.2 | 6.4 | 6.5 | 6.3 | 5.8 | 5.4 | 5.4 | 5.7 | 5.8 | 5.9 | 6.6 | 6.9 | 6.5 | 6.2 | 5.9 | -0.3 |
| Black | 3.2 | 3.7 | 3.9 | 4.4 | 4.7 | 4.6 | 4.1 | 3.7 | 3.7 | 3.2 | 3.5 | 4.4 | 4.5 | 3.8 | 4.3 | 6.1 | 6.5 | 6.0 | 6.2 | 6.1 | 6.3 | +0.2 |
| Hispanic | 3.0 | 4.2 | 4.5 | 4.7 | 6.0 | 6.9 | 5.0 | 4.0 | 4.0 | 4.0 | 3.7 | 3.2 | 3.2 | 3.4 | 3.6 | 4.1 | 4.6 | 4.8 | 6.1 | 5.7 | 4.8 | -0.9 |
|  estimates for the two most recent classes is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {a }}$ Parental education is an average ${ }^{\mathrm{D}}$ To derive percentages for each ra race/ethnicity is defined. | score of racial subg | mother's e roup, data | ducation for the sp | and father's pecified yea | 's educatio ear and the | ion. See ap e previous | ppendix B year have | for details. e been con | mbined to | increase | subgroup | sample siz | izes and | us provid | more st | able estim | ates. See | appendix | B for det | ails on how |  |  |

## TABLE 19

SYNTHETIC MARIJUANA: Trends in Annual

## Prevalence of Use by Subgroups in Grades 8, 10, and 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 8th Graders |  |  |  |  |  | 10th Graders |  |  |  |  |  | 12th Graders |  |  |  |  |  |  |
|  | $\begin{gathered} 1991- \\ \underline{2011} \end{gathered}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{array}{r} 2014- \\ 2015 \\ \text { change } \end{array}$ | $\begin{aligned} & 1991- \\ & \underline{2011} \end{aligned}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{array}{r} 2014- \\ 2015 \\ \text { change } \end{array}$ | $\begin{gathered} 2009- \\ \underline{2010} \end{gathered}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| Approximate weighted $N=$ | - | 15,100 | 14,600 | 14,600 | 14,400 |  | - | 15,000 | 12,900 | 13,000 | 15,600 |  | - | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | - | 4.4 | 4.0 | 3.3 | 3.1 | $-0.2$ | - | 8.8 | 7.4 | 5.4 | 4.3 | -1.1 | - | 11.4 | 11.3 | 7.9 | 5.8 | 5.2 | $-0.7$ |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 4.1 | 3.8 | 2.9 | 2.6 | -0.4 | - | 10.0 | 7.9 | 5.1 | 4.3 | -0.8 | - | 14.7 | 14.1 | 8.7 | 6.2 | 5.2 | -1.0 |
| Female | - | 4.6 | 4.1 | 3.6 | 3.5 | -0.1 | - | 7.7 | 6.9 | 5.6 | 4.4 | -1.2 | - | 7.9 | 7.9 | 6.8 | 5.3 | 5.2 | -0.2 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 10.2 | 13.8 | 11.6 | 9.9 | -1.6 | - | 18.7 | 16.5 | 12.9 | 11.4 | -1.4 | - | 18.9 | 16.7 | 11.8 | 5.8 | 8.0 | +2.2 |
| Complete 4 years | - | 3.9 | 3.3 | 2.6 | 2.6 | 0.0 | - | 7.8 | 6.5 | 4.5 | 3.6 | -1.0 | - | 10.0 | 9.9 | 7.0 | 5.8 | 4.4 | $-1.4 \mathrm{~s}$ |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 2.7 | 3.5 | 3.5 | 1.6 | -1.8 | - | 7.7 | 6.9 | 3.8 | 4.6 | +0.8 | - | 11.9 | 10.7 | 7.4 | 5.1 | 4.3 | -0.8 |
| Midwest | - | 2.4 | 2.8 | 2.6 | 2.9 | +0.3 | - | 9.2 | 6.3 | 5.8 | 3.4 | -2.5 s | - | 13.5 | 14.2 | 7.6 | 6.6 | 5.3 | -1.3 |
| South | - | 5.6 | 4.2 | 2.6 | 3.1 | +0.5 | - | 10.0 | 7.0 | 5.6 | 4.0 | -1.6 | - | 11.0 | 9.3 | 7.9 | 6.2 | 4.3 | -2.0 |
| West | - | 5.5 | 5.1 | 5.1 | 4.6 | -0.5 | - | 7.4 | 9.4 | 6.1 | 5.7 | -0.4 | - | 9.5 | 11.1 | 8.4 | 5.0 | 7.1 | +2.1 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 4.0 | 3.8 | 3.5 | 2.8 | $-0.7$ | - | 7.7 | 6.4 | 5.6 | 4.6 | -0.9 | - | 9.7 | 13.3 | 6.8 | 5.9 | 5.4 | -0.5 |
| Other MSA | - | 4.9 | 3.9 | 2.6 | 3.4 | +0.8 | - | 8.3 | 7.6 | 4.9 | 4.1 | -0.8 | - | 12.3 | 10.3 | 8.2 | 6.3 | 5.0 | -1.3 |
| Non-MSA | - | 3.8 | 4.2 | 4.3 | 3.0 | -1.3 | - | 11.4 | 8.4 | 6.4 | 4.4 | -2.0 | - | 11.7 | 10.8 | 8.6 | 4.6 | 5.2 | +0.6 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 5.9 | 8.5 | 6.9 | 7.5 | +0.6 | - | 10.5 | 8.6 | 6.6 | 8.5 | +1.9 | - | 13.2 | 10.7 | 8.8 | 7.5 | 6.1 | -1.4 |
| 2.5-3.0 | - | 6.4 | 4.0 | 4.3 | 3.5 | -0.7 | - | 13.4 | 10.5 | 7.5 | 6.1 | -1.3 | - | 12.9 | 12.3 | 7.0 | 7.0 | 5.9 | -1.1 |
| 3.5-4.0 | - | 5.5 | 4.8 | 2.9 | 3.1 | +0.2 | - | 9.0 | 8.4 | 6.9 | 5.0 | -1.9 | - | 12.1 | 12.8 | 8.4 | 5.6 | 5.2 | -0.4 |
| 4.5-5.0 | - | 2.9 | 3.0 | 2.4 | 2.1 | -0.2 | - | 7.2 | 4.9 | 3.3 | 3.0 | -0.3 | - | 9.2 | 11.0 | 8.5 | 5.2 | 4.2 | -1.0 |
| 5.5-6.0 (High) | - | 1.8 | 2.7 | 2.7 | 1.3 | -1.5 | - | 6.4 | 4.8 | 3.4 | 2.0 | -1.3 | - | 11.3 | 8.5 | 5.1 | 4.2 | 4.4 | +0.2 |
| Race/Ethnicity (2-year data:) ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 3.1 | 2.9 | 2.2 | -0.7 s | - | - | 8.4 | 6.2 | 4.5 | -1.6 sss | - | - | 12.9 | 10.4 | 6.9 | 5.3 | -1.5 ss |
| African American | - | - | 2.8 | 2.3 | 2.0 | -0.3 | - | - | 3.6 | 4.1 | 4.1 | 0.0 | - | - | 6.0 | 6.5 | 5.8 | 3.7 | -2.1 s |
| Hispanic | - | - | 7.6 | 5.3 | 4.3 | -1.0 | - | - | 8.8 | 7.4 | 5.7 | -1.7 | - | - | 9.9 | 9.6 | 7.6 | 6.9 | -0.7 |
|  <br>  indicated in Table S3. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes ( ${ }^{\text {a }}$ Parental education is an average sco ${ }^{\mathrm{b}}$ To derive percentages for each racia is defined. | ee Notes e of moth subgroup | above). U r's educatio data for th | e caution on and fath specified | in interpre er's educa year and t | ting subg tion. See a he previous | roup trends <br> ppendix B fo year have b | ned to inc | rease sub | roup samp | e sizes a | d thus pro | vide more | tes. See | ppendix B | for details | on how rac | /ethnicity |  |  |

TABLE 20
INHALANTS: Trends in Annual Prevalence of Use by Subgroups in Grade 8

Percentage who used in last 12 months
$\underline{19} 1 \underline{1992} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014^{c}} \quad \underline{2015^{c}} \quad \underline{\text { change }}$


| Total | 9.0 | 9.5 | 11.0 | 11.7 | 12.8 | 12.2 | 11.8 | 11.1 | 10.3 | 9.4 | 9.1 | 7.7 | 8.7 | 9.6 | 9.5 | 9.1 | 8.3 | 8.9 | 8.1 | 8.1 | 7.0 | 6.2 | 5.2 | 5.3 | 4.6 | -0.7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 9.0 | 9.2 | 10.4 | 11.2 | 11.5 | 10.3 | 10.5 | 10.6 | 9.5 | 8.9 | 8.4 | 7.6 | 7.7 | 8.8 | 7.8 | 7.7 | 7.3 | 7.0 | 7.0 | 6.4 | 5.5 | 4.5 | 4.0 | 4.0 | 3.8 | -0.2 |
| Female | 9.0 | 9.8 | 11.9 | 12.2 | 14.0 | 14.1 | 12.9 | 11.6 | 11.1 | 9.9 | 9.9 | 7.8 | 9.6 | 10.5 | 11.1 | 10.5 | 9.3 | 11.0 | 9.3 | 9.5 | 8.6 | 7.9 | 6.3 | 6.2 | 5.2 | -1.0 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 15.0 | 15.6 | 17.7 | 18.3 | 19.6 | 18.2 | 18.1 | 20.9 | 17.9 | 17.2 | 15.1 | 14.5 | 16.5 | 17.9 | 15.3 | 17.3 | 18.1 | 19.1 | 16.7 | 13.1 | 12.8 | 11.2 | 10.9 | 10.7 | 7.6 | -3.1 |
| Complete 4 years | 8.1 | 8.8 | 10.2 | 10.9 | 11.9 | 11.4 | 11.2 | 10.2 | 9.5 | 8.6 | 8.6 | 7.1 | 8.0 | 8.7 | 9.0 | 8.3 | 7.5 | 8.0 | 7.5 | 7.7 | 6.7 | 5.9 | 4.8 | 4.8 | 4.3 | -0.5 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 8.0 | 8.6 | 11.3 | 12.0 | 13.1 | 11.7 | 12.1 | 9.1 | 9.8 | 8.7 | 9.4 | 6.9 | 9.0 | 8.9 | 9.1 | 7.2 | 5.9 | 7.9 | 7.4 | 7.4 | 6.7 | 5.6 | 5.3 | 4.1 | 4.6 | +0.4 |
| Midwest | 9.8 | 10.5 | 9.9 | 10.3 | 13.8 | 13.3 | 11.3 | 11.3 | 10.6 | 10.6 | 8.8 | 8.0 | 9.6 | 9.6 | 8.5 | 9.0 | 8.1 | 9.1 | 7.6 | 7.9 | 5.8 | 5.5 | 4.1 | 4.9 | 4.7 | -0.2 |
| South | 8.9 | 9.1 | 10.0 | 11.3 | 12.1 | 11.3 | 11.6 | 11.3 | 9.9 | 8.4 | 9.5 | 8.4 | 7.9 | 9.9 | 9.8 | 9.1 | 9.1 | 9.6 | 8.9 | 8.3 | 7.1 | 6.4 | 5.1 | 5.6 | 5.0 | -0.5 |
| West | 8.8 | 9.8 | 14.2 | 14.0 | 12.4 | 12.9 | 12.6 | 12.4 | 10.9 | 10.5 | 8.6 | 6.4 | 8.9 | 9.6 | 10.4 | 10.5 | 8.8 | 8.4 | 7.9 | 8.3 | 8.4 | 7.2 | 6.3 | 5.9 | 3.7 | -2.2 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 9.9 | 9.1 | 10.8 | 11.6 | 11.7 | 11.4 | 10.4 | 8.6 | 8.8 | 8.3 | 8.3 | 7.1 | 8.0 | 8.8 | 8.8 | 8.8 | 8.6 | 8.7 | 7.1 | 7.2 | 6.7 | 6.6 | 5.1 | 5.1 | 4.2 | -0.9 |
| Other MSA | 8.5 | 10.3 | 12.3 | 13.1 | 13.7 | 13.4 | 11.5 | 11.1 | 10.1 | 9.4 | 8.9 | 8.0 | 8.5 | 10.3 | 10.7 | 9.0 | 8.3 | 8.9 | 8.8 | 8.6 | 7.3 | 6.5 | 5.3 | 4.9 | 4.7 | -0.3 |
| Non-MSA | 9.1 | 8.6 | 8.5 | 9.3 | 12.3 | 11.0 | 13.9 | 14.0 | 12.3 | 10.9 | 10.4 | 7.8 | 10.1 | 9.2 | 8.3 | 9.7 | 7.9 | 9.2 | 8.1 | 8.0 | 7.1 | 5.0 | 5.1 | 6.3 | 4.9 | -1.3 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 12.0 | 11.4 | 11.5 | 12.4 | 13.0 | 11.3 | 12.1 | 14.4 | 12.9 | 13.1 | 10.7 | 10.3 | 10.6 | 12.6 | 11.6 | 10.5 | 11.9 | 13.3 | 11.8 | 12.2 | 10.7 | 8.9 | 8.6 | 7.2 | 5.3 | -1.9 |
| 2.5-3.0 | 9.5 | 9.9 | 10.9 | 12.1 | 13.9 | 12.6 | 12.6 | 12.0 | 11.8 | 11.3 | 9.7 | 8.3 | 10.1 | 10.2 | 11.6 | 10.7 | 9.3 | 10.8 | 9.5 | 9.8 | 8.1 | 7.8 | 6.0 | 6.7 | 5.5 | -1.2 |
| 3.5-4.0 | 8.9 | 10.0 | 11.5 | 12.3 | 14.7 | 13.4 | 13.5 | 12.8 | 10.8 | 9.9 | 9.4 | 8.9 | 10.3 | 11.0 | 10.0 | 10.3 | 9.2 | 9.5 | 9.3 | 8.2 | 8.1 | 6.8 | 6.2 | 5.9 | 4.9 | -1.0 |
| 4.5-5.0 | 8.0 | 8.4 | 10.6 | 11.0 | 12.3 | 13.2 | 11.4 | 9.7 | 9.2 | 7.1 | 9.0 | 7.3 | 7.4 | 9.3 | 8.4 | 7.8 | 7.6 | 7.3 | 6.9 | 6.7 | 5.5 | 5.0 | 4.0 | 4.2 | 3.9 | -0.3 |
| 5.5-6.0 (High) | 8.4 | 10.3 | 12.6 | 12.2 | 11.6 | 11.7 | 10.8 | 10.6 | 9.1 | 9.2 | 7.7 | 6.2 | 6.5 | 6.9 | 8.0 | 7.9 | 6.3 | 7.8 | 6.1 | 6.6 | 6.2 | 5.2 | 3.8 | 4.1 | 3.7 | -0.4 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 10.1 | 11.3 | 12.4 | 13.8 | 14.6 | 14.1 | 13.3 | 12.1 | 10.9 | 10.1 | 9.1 | 8.8 | 9.6 | 9.8 | 9.7 | 8.9 | 8.5 | 8.6 | 8.0 | 7.1 | 5.9 | 4.9 | 4.4 | 4.3 | 0.0 |
| African American | - | 4.4 | 4.6 | 5.3 | 5.0 | 4.2 | 3.8 | 4.2 | 4.2 | 4.3 | 4.8 | 5.0 | 4.9 | 5.4 | 5.8 | 5.4 | 5.5 | 5.6 | 5.9 | 5.5 | 5.1 | 5.6 | 5.1 | 4.7 | 4.4 | -0.3 |
| Hispanic | - | 10.4 | 11.5 | 12.5 | 13.3 | 12.7 | 11.4 | 11.5 | 12.7 | 12.2 | 11.0 | 9.9 | 9.6 | 10.6 | 11.0 | 9.5 | 9.2 | 10.2 | 10.3 | 10.7 | 10.5 | 9.0 | 7.6 | 6.5 | 4.8 | -1.6 sss |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  ${ }^{\text {c }}$ Beginning in 2014 data are based on three of four forms; $N$ is two thirds of $N$ indicated. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## TABLE 21

INHALANTS: Trends in Annual Prevalence of Use by Subgroups in Grade 10

Percentage who used in last 12 months
2014-
$\underline{1991} \quad \underline{1992} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014^{c}} \quad \underline{2015^{c}} \quad \underline{\text { change }}$


| Total | 7.1 | 7.5 | 8.4 | 9.1 | 9.6 | 9.5 | 8.7 | 8.0 | 7.2 | 7.3 | 6.6 | 5.8 | 5.4 | 5.9 | 6.0 | 6.5 | 6.6 | 5.9 | 6.1 | 5.7 | 4.5 | 4.1 | 3.5 | 3.3 | 2.9 | -0.5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 7.4 | 7.6 | 9.1 | 9.7 | 10.3 | 10.1 | 9.1 | 8.4 | 7.6 | 7.7 | 6.7 | 5.4 | 5.2 | 5.8 | 5.0 | 5.9 | 6.3 | 5.4 | 5.4 | 5.0 | 4.1 | 3.4 | 3.4 | 2.8 | 2.7 | -0.2 |
| Female | 6.6 | 7.5 | 7.7 | 8.6 | 8.9 | 8.9 | 8.2 | 7.6 | 6.9 | 7.0 | 6.5 | 6.0 | 5.6 | 6.1 | 6.9 | 7.1 | 7.0 | 6.3 | 6.7 | 6.3 | 4.8 | 4.8 | 3.5 | 3.8 | 3.0 | -0.8 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 12.0 | 12.4 | 14.0 | 15.1 | 14.6 | 14.3 | 14.4 | 13.5 | 11.6 | 11.2 | 11.0 | 9.8 | 9.6 | 11.2 | 9.9 | 10.6 | 12.0 | 11.1 | 11.7 | 12.1 | 9.7 | 8.8 | 6.0 | 6.5 | 5.7 | -0.8 |
| Complete 4 years | 5.9 | 6.4 | 7.3 | 7.8 | 8.7 | 8.7 | 7.7 | 7.0 | 6.5 | 6.7 | 5.9 | 5.2 | 4.8 | 5.2 | 5.5 | 5.9 | 5.9 | 5.3 | 5.4 | 5.0 | 3.9 | 3.6 | 3.2 | 3.0 | 2.6 | -0.4 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 7.2 | 7.8 | 10.6 | 9.8 | 10.4 | 11.5 | 8.9 | 9.3 | 8.3 | 7.2 | 6.5 | 6.0 | 5.9 | 6.1 | 6.2 | 6.5 | 6.4 | 4.9 | 6.1 | 4.9 | 4.8 | 3.8 | 2.6 | 2.5 | 2.7 | +0.2 |
| Midwest | 7.5 | 8.0 | 8.3 | 8.4 | 10.4 | 9.8 | 8.3 | 6.7 | 8.4 | 7.5 | 6.5 | 5.8 | 6.1 | 5.7 | 6.1 | 6.7 | 6.8 | 5.7 | 5.7 | 5.8 | 3.9 | 3.8 | 3.3 | 3.6 | 2.4 | -1.2 |
| South | 7.2 | 6.6 | 7.3 | 9.0 | 9.4 | 9.1 | 8.8 | 8.3 | 6.5 | 7.4 | 6.8 | 5.4 | 4.6 | 5.6 | 5.6 | 5.7 | 6.1 | 5.6 | 5.2 | 5.8 | 4.3 | 4.2 | 3.2 | 3.8 | 2.9 | -0.9 |
| West | 6.2 | 8.0 | 8.4 | 9.9 | 8.1 | 8.0 | 8.5 | 7.8 | 6.1 | 7.2 | 6.7 | 6.2 | 5.5 | 6.6 | 6.1 | 7.2 | 7.3 | 7.2 | 7.6 | 6.3 | 5.1 | 4.4 | 4.5 | 3.2 | 3.5 | +0.3 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 7.7 | 7.8 | 8.5 | 7.9 | 8.7 | 8.1 | 8.1 | 6.7 | 6.9 | 7.1 | 6.0 | 5.1 | 4.8 | 5.0 | 6.2 | 6.0 | 6.0 | 5.3 | 6.1 | 5.6 | 4.5 | 3.9 | 3.3 | 3.2 | 3.2 | 0.0 |
| Other MSA | 7.1 | 7.4 | 8.4 | 9.8 | 9.7 | 9.6 | 8.4 | 7.7 | 7.0 | 6.8 | 6.9 | 5.4 | 5.2 | 6.3 | 5.6 | 6.4 | 6.8 | 6.4 | 6.2 | 5.4 | 4.2 | 3.6 | 3.4 | 3.1 | 2.7 | -0.4 |
| Non-MSA | 6.5 | 7.5 | 8.6 | 9.1 | 10.5 | 11.0 | 9.8 | 10.1 | 8.3 | 8.5 | 7.0 | 7.4 | 7.1 | 6.5 | 6.5 | 7.4 | 7.1 | 5.5 | 5.9 | 6.4 | 4.9 | 5.2 | 3.7 | 4.2 | 2.9 | -1.3 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 7.0 | 8.2 | 10.2 | 8.7 | 9.4 | 10.8 | 9.3 | 9.7 | 8.7 | 8.5 | 7.6 | 5.6 | 5.8 | 6.2 | 6.3 | 6.9 | 9.3 | 8.7 | 7.1 | 9.0 | 6.0 | 5.4 | 4.1 | 4.6 | 5.7 | +1.0 |
| 2.5-3.0 | 8.0 | 7.9 | 9.1 | 9.5 | 11.0 | 9.9 | 8.5 | 9.1 | 8.0 | 8.1 | 7.5 | 6.0 | 6.3 | 6.9 | 6.9 | 6.2 | 7.5 | 6.7 | 7.4 | 6.9 | 5.4 | 4.7 | 4.5 | 4.7 | 3.5 | -1.2 |
| 3.5-4.0 | 7.5 | 8.3 | 8.3 | 9.6 | 10.2 | 10.1 | 9.4 | 8.1 | 6.9 | 7.4 | 5.9 | 6.3 | 5.8 | 5.7 | 6.2 | 7.1 | 7.0 | 6.3 | 6.5 | 5.7 | 4.5 | 3.9 | 3.8 | 3.3 | 3.2 | -0.2 |
| 4.5-5.0 | 6.4 | 6.5 | 7.2 | 8.7 | 9.4 | 8.4 | 8.3 | 7.1 | 6.7 | 6.5 | 6.8 | 5.6 | 5.1 | 5.7 | 5.8 | 5.5 | 5.8 | 5.0 | 4.9 | 4.8 | 3.7 | 3.9 | 2.9 | 2.7 | 2.3 | -0.4 |
| 5.5-6.0 (High) | 6.6 | 6.7 | 8.2 | 8.2 | 7.0 | 10.1 | 8.2 | 6.7 | 7.2 | 7.2 | 5.5 | 5.2 | 4.4 | 5.1 | 5.3 | 7.5 | 5.4 | 4.5 | 4.8 | 4.4 | 3.8 | 3.6 | 2.3 | 2.3 | 1.9 | -0.4 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 8.3 | 8.8 | 9.6 | 10.6 | 11.0 | 10.4 | 9.6 | 8.9 | 8.4 | 7.9 | 7.1 | 6.6 | 6.5 | 6.6 | 6.8 | 7.1 | 6.5 | 5.9 | 5.7 | 4.8 | 4.1 | 3.6 | 3.2 | 2.9 | -0.3 |
| African American | - | 3.6 | 3.7 | 3.3 | 2.8 | 2.3 | 2.3 | 2.4 | 2.0 | 2.0 | 2.1 | 2.4 | 2.0 | 2.1 | 2.8 | 2.9 | 2.9 | 2.9 | 3.2 | 3.1 | 2.9 | 2.4 | 2.6 | 3.1 | 2.7 | -0.4 |
| Hispanic | - | 6.4 | 8.3 | 9.0 | 8.5 | 8.2 | 7.9 | 7.6 | 7.3 | 6.3 | 5.9 | 4.8 | 4.8 | 5.7 | 6.2 | 6.4 | 6.4 | 7.2 | 7.9 | 7.5 | 6.8 | 5.7 | 4.8 | 4.2 | 3.7 | -0.6 |

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

rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.
${ }^{2}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\text {Th }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.
${ }^{\text {}}$ Beginning in 2014 data are based on three of four forms; $N$ is two thirds of $N$ indicated.

TABLE 22
INHALANTS: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |
| Total | - | 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 |
| Adjusted ${ }^{\text {b }}$ | - | - | - | - | 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 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 3.8 | 5.1 | 5.6 | 6.7 | 5.9 | 5.1 | 5.8 | 5.8 | 6.5 | 6.9 | 7.8 | 8.3 | 8.2 | 7.8 | 8.8 | 8.2 | 8.0 | 9.2 | 9.6 |
| Female | - | 2.0 | 2.4 | 2.8 | 4.2 | 3.5 | 3.2 | 3.1 | 2.8 | 3.8 | 4.5 | 4.7 | 5.6 | 4.9 | 4.0 | 4.9 | 5.0 | 4.5 | 4.8 | 6.0 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 3.6 | 4.7 | 5.0 | 6.3 | 5.0 | 4.3 | 4.9 | 4.7 | 5.8 | 5.8 | 7.7 | 8.0 | 8.1 | 7.1 | 7.8 | 7.7 | 7.7 | 8.0 | 9.0 |
| Complete 4 years | - | 2.2 | 2.9 | 3.4 | 4.5 | 4.3 | 4.0 | 4.1 | 3.9 | 4.7 | 5.7 | 5.2 | 6.4 | 6.0 | 5.4 | 6.4 | 6.3 | 5.7 | 6.7 | 7.4 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 3.2 | 4.1 | 4.4 | 6.4 | 6.0 | 5.2 | 6.2 | 5.0 | 6.1 | 8.0 | 5.6 | 6.7 | 6.0 | 6.3 | 7.4 | 6.7 | 6.0 | 8.9 | 10.3 |
| Midwest | - | 2.6 | 4.2 | 4.8 | 5.9 | 4.6 | 3.8 | 3.6 | 4.5 | 5.0 | 5.8 | 6.7 | 8.6 | 7.2 | 6.7 | 8.0 | 8.6 | 7.4 | 6.3 | 9.5 |
| South | - | 3.8 | 3.3 | 3.6 | 4.3 | 3.4 | 3.2 | 3.8 | 3.8 | 4.6 | 4.2 | 5.7 | 6.1 | 6.8 | 5.5 | 6.4 | 5.0 | 4.8 | 6.5 | 6.2 |
| West | - | 1.7 | 3.0 | 3.6 | 4.9 | 4.9 | 4.7 | 4.4 | 4.3 | 5.3 | 5.4 | 6.6 | 6.2 | 5.6 | 4.8 | 5.7 | 6.8 | 7.5 | 7.0 | 5.7 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 2.9 | 3.4 | 3.4 | 5.1 | 5.7 | 4.7 | 5.5 | 4.8 | 5.3 | 5.9 | 5.2 | 6.0 | 6.5 | 5.1 | 6.7 | 5.2 | 6.0 | 7.4 | 7.6 |
| Other MSA | - | 2.6 | 3.6 | 3.7 | 4.8 | 4.2 | 4.0 | 3.9 | 4.4 | 5.0 | 5.9 | 6.3 | 6.9 | 6.0 | 5.8 | 6.8 | 7.8 | 6.6 | 7.3 | 7.7 |
| Non-MSA | - | 3.4 | 4.2 | 5.3 | 6.2 | 4.4 | 3.7 | 4.4 | 3.9 | 5.2 | 5.4 | 6.6 | 7.8 | 7.5 | 6.8 | 7.4 | 5.8 | 5.6 | 6.0 | 7.6 |
| Parental Education: ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 3.7 | 3.9 | 4.5 | 5.2 | 3.6 | 3.6 | 3.2 | 3.1 | 4.5 | 4.2 | 4.9 | 4.6 | 5.3 | 5.9 | 5.0 | 6.1 | 4.2 | 4.3 | 5.3 |
| 2.5-3.0 | - | 3.1 | 4.1 | 4.0 | 5.0 | 4.8 | 4.0 | 4.8 | 4.0 | 5.2 | 5.6 | 6.1 | 6.8 | 6.3 | 5.5 | 6.9 | 6.6 | 6.7 | 6.0 | 7.8 |
| 3.5-4.0 | - | 3.1 | 3.4 | 4.1 | 5.1 | 4.7 | 4.0 | 4.6 | 4.9 | 5.6 | 5.5 | 6.2 | 7.1 | 5.8 | 6.1 | 7.2 | 6.1 | 6.3 | 7.7 | 7.1 |
| 4.5-5.0 | - | 2.7 | 3.0 | 3.9 | 5.8 | 4.3 | 4.4 | 4.4 | 5.2 | 5.0 | 7.0 | 6.9 | 7.2 | 7.0 | 5.7 | 7.4 | 7.4 | 6.3 | 7.6 | 8.9 |
| 5.5-6.0 (High) | - | 3.7 | 4.2 | 5.0 | 7.2 | 5.8 | 4.9 | 6.0 | 4.7 | 5.6 | 6.8 | 6.4 | 8.7 | 9.1 | 6.8 | 7.6 | 7.1 | 6.7 | 9.4 | 9.7 |
| Race/Ethnicity (2-year average): d |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 3.6 | 4.3 | 5.1 | 5.3 | 4.7 | 4.7 | 4.8 | 5.1 | 5.9 | 6.5 | 7.3 | 7.6 | 7.0 | 7.2 | 7.6 | 7.2 | 7.6 | 8.6 |
| African American | - | - | 1.5 | 1.3 | 2.1 | 2.2 | 2.1 | 1.9 | 1.8 | 2.2 | 2.0 | 2.1 | 3.0 | 3.1 | 2.2 | 2.1 | 2.7 | 2.5 | 2.2 | 2.4 |
| Hispanic | - | - | 2.7 | 3.0 | 2.9 | 2.9 | 3.5 | 4.1 | 3.4 | 4.6 | 6.5 | 5.5 | 4.6 | 4.1 | 4.7 | 4.8 | 5.4 | 6.0 | 5.7 | 5.5 |

[^4]TABLE 22 (cont.)
INHALANTS: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | 2014 | $\underline{2015}$ |  |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 8.0 | 7.6 | 6.7 | 6.2 | 5.6 | 5.9 | 4.5 | 4.5 | 3.9 | 4.2 | 5.0 | 4.5 | 3.7 | 3.8 | 3.4 | 3.6 | 3.2 | 2.9 | 2.5 | 1.9 | 1.9 | 0.0 |
| Adjusted ${ }^{\text {b }}$ | 8.4 | 8.5 | 7.3 | 7.1 | 6.0 | 6.2 | 4.9 | 4.9 | 4.5 | 4.6 | 5.4 | 4.7 | 4.1 | 4.0 | 4.1 | - | - | - | - | - | - |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 9.9 | 9.1 | 8.3 | 7.5 | 6.5 | 6.8 | 5.5 | 5.8 | 5.2 | 4.8 | 6.2 | 5.1 | 3.9 | 4.4 | 3.6 | 4.7 | 3.3 | 3.1 | 2.9 | 2.1 | 2.1 | 0.0 |
| Female | 6.2 | 6.1 | 5.2 | 5.1 | 4.9 | 5.1 | 3.5 | 3.3 | 2.9 | 3.4 | 4.1 | 3.9 | 3.4 | 3.2 | 3.2 | 2.5 | 3.0 | 2.6 | 2.2 | 1.8 | 1.6 | -0.2 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 9.7 | 8.2 | 8.0 | 7.9 | 6.5 | 6.7 | 6.6 | 6.3 | 5.1 | 5.6 | 7.3 | 6.8 | 4.4 | 6.1 | 4.7 | 4.5 | 6.2 | 3.7 | 3.9 | 3.1 | 4.1 | +1.0 |
| Complete 4 years | 7.4 | 7.3 | 6.5 | 5.7 | 5.4 | 5.5 | 3.9 | 4.2 | 3.5 | 3.8 | 4.6 | 3.9 | 3.5 | 3.3 | 3.1 | 3.4 | 2.6 | 2.6 | 2.2 | 1.7 | 1.4 | -0.3 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 10.3 | 10.8 | 9.4 | 8.0 | 6.2 | 6.3 | 5.7 | 5.4 | 5.1 | 4.3 | 6.0 | 5.9 | 3.9 | 3.5 | 3.7 | 3.4 | 3.1 | 3.8 | 2.6 | 1.9 | 1.4 | -0.5 |
| Midwest | 8.6 | 7.6 | 6.9 | 7.6 | 6.3 | 5.5 | 5.0 | 5.6 | 3.7 | 3.8 | 5.6 | 4.8 | 3.9 | 3.0 | 3.7 | 3.9 | 3.2 | 2.5 | 2.3 | 2.4 | 1.5 | -0.9 |
| South | 7.0 | 6.5 | 5.6 | 5.1 | 5.2 | 5.5 | 3.4 | 4.1 | 3.5 | 4.1 | 4.6 | 3.6 | 3.4 | 3.7 | 3.1 | 3.6 | 2.7 | 2.2 | 2.0 | 1.8 | 2.4 | +0.5 |
| West | 6.7 | 6.0 | 5.4 | 4.7 | 4.9 | 6.7 | 4.8 | 3.2 | 3.6 | 4.6 | 4.3 | 4.7 | 3.7 | 5.0 | 3.5 | 3.8 | 4.0 | 3.4 | 3.3 | 1.7 | 1.8 | 0.0 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 8.5 | 7.8 | 5.9 | 5.5 | 4.8 | 6.3 | 4.4 | 4.4 | 3.5 | 4.0 | 5.0 | 4.1 | 2.8 | 3.1 | 2.4 | 4.0 | 3.3 | 3.2 | 2.6 | 1.7 | 1.4 | -0.3 |
| Other MSA | 7.8 | 7.9 | 6.5 | 6.1 | 5.3 | 4.9 | 4.3 | 4.4 | 4.4 | 4.1 | 5.1 | 4.5 | 3.8 | 3.7 | 3.8 | 3.5 | 3.0 | 2.7 | 2.4 | 2.0 | 1.9 | -0.1 |
| Non-MSA | 7.8 | 7.0 | 8.1 | 7.4 | 6.9 | 7.2 | 5.2 | 4.8 | 3.7 | 4.3 | 4.9 | 5.2 | 4.7 | 4.7 | 3.9 | 3.4 | 3.5 | 2.8 | 2.6 | 2.1 | 2.7 | +0.6 |
| Parental Education: ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 7.5 | 5.8 | 5.4 | 6.3 | 4.8 | 4.0 | 3.2 | 5.7 | 3.4 | 4.6 | 5.2 | 5.0 | 3.6 | 3.6 | 3.6 | 3.0 | 4.3 | 3.0 | 2.7 | 2.6 | 2.4 | -0.1 |
| 2.5-3.0 | 8.0 | 7.9 | 6.3 | 6.0 | 5.4 | 5.2 | 5.7 | 4.3 | 3.8 | 4.9 | 5.7 | 4.8 | 3.8 | 3.6 | 4.1 | 3.5 | 3.4 | 3.4 | 3.0 | 1.5 | 2.2 | +0.7 |
| 3.5-4.0 | 6.7 | 7.8 | 7.1 | 7.3 | 6.1 | 6.1 | 4.2 | 4.5 | 3.9 | 5.0 | 4.8 | 4.7 | 3.9 | 4.4 | 3.1 | 3.6 | 3.8 | 2.3 | 2.7 | 1.8 | 2.1 | +0.3 |
| 4.5-5.0 | 8.9 | 7.4 | 7.9 | 5.3 | 5.6 | 5.9 | 3.8 | 4.7 | 4.4 | 3.4 | 5.8 | 4.3 | 3.7 | 3.6 | 3.9 | 3.9 | 2.3 | 3.1 | 1.9 | 2.1 | 1.4 | -0.6 |
| 5.5-6.0 (High) | 9.7 | 8.5 | 6.0 | 6.2 | 6.1 | 7.5 | 5.8 | 4.6 | 4.0 | 3.2 | 3.0 | 3.9 | 3.4 | 3.4 | 1.9 | 3.2 | 2.0 | 2.8 | 2.2 | 2.1 | 1.5 | -0.7 |
| Race/Ethnicity (2-year average): ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 9.1 | 9.0 | 8.6 | 7.9 | 7.0 | 6.4 | 5.9 | 5.2 | 4.9 | 4.7 | 5.1 | 5.3 | 4.7 | 4.3 | 4.1 | 3.8 | 3.5 | 3.0 | 2.6 | 2.3 | 1.9 | -0.3 |
| African American | 2.6 | 2.2 | 1.9 | 1.7 | 1.4 | 1.9 | 2.2 | 1.9 | 1.5 | 1.3 | 1.9 | 1.9 | 1.6 | 1.5 | 1.6 | 2.0 | 2.2 | 1.9 | 2.0 | 2.1 | 1.9 | -0.2 |
| Hispanic | 5.8 | 5.9 | 4.7 | 4.5 | 5.5 | 6.3 | 4.5 | 3.4 | 2.7 | 2.9 | 5.3 | 5.7 | 4.3 | 3.3 | 3.0 | 3.6 | 4.5 | 4.1 | 3.7 | 2.8 | 2.0 | -0.7 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01$, $s s s=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on four of five forms in 1976-1988; $N$ is four fifths of $N$ indicated in Table S3. Data based on five of six forms in 1989-1998; $N$ is five sixths of $N$ indicated in Table S3. Data based on three of six forms beginning in 1999;

$$
N \text { is three sixths of } N \text { indicated in Table S3. }
$$

${ }^{\text {a }}$ All data are unadjusted for underreporting of amyl and butyl nitrites, except where otherwise noted.
${ }^{\mathrm{b}}$ Adjusted for underreporting of amyl and butyl nitrites. See text for details.
${ }^{\text {c }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\mathrm{d}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 23
HALLUCINOGENS: Trends in Annual Prevalence of Use by Subgroups in Grade 8

Percentage who used in last 12 months
2014-




Source. The Monitoring the Future study, the University of Michigan.
 Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S 1 for the number of subgroup cases. See appendix B for definition of variables in table.

the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.
${ }^{6}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\text {c }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.
${ }^{d}$ Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

TABLE 24
HALLUCINOGENS：Trends in Annual Prevalence of Use by Subgroups in Grade 10



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 4.0 | 4.3 | 4.7 | 5.8 | 7.2 | 7.8 | 7.6 | 6.9 | 6.9 | 6．1才 | 6.2 | 4.7 | 4.1 | 4.1 | 4.0 | 4.1 | 4.4 | 3.9 | 4.1 | 4.2 | 4.1 | 3.5 | 3.4 | 3.3 | 3.1 | －0．2 |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 4.4 | 4.7 | 5.7 | 6.6 | 8.1 | 8.5 | 8.7 | 7.4 | 8.1 | $7.2 \ddagger$ | 7.9 | 5.5 | 4.9 | 4.6 | 4.8 | 4.5 | 5.4 | 4.7 | 5.0 | 5.2 | 4.9 | 4.6 | 4.4 | 3.3 | 3.4 | ＋0．1 |
| Female | 3.6 | 3.8 | 3.6 | 4.8 | 6.1 | 7.0 | 6.4 | 6.3 | 5.7 | 4．9才 | 4.6 | 3.9 | 3.4 | 3.5 | 3.1 | 3.5 | 3.4 | 3.1 | 3.1 | 3.0 | 3.2 | 2.5 | 2.4 | 3.4 | 2.5 | －0．8 s |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 7.5 | 7.5 | 9.1 | 10.4 | 12.5 | 14.5 | 13.6 | 14.2 | 14.3 | 12．3 $\ddagger$ | 15.0 | 10.3 | 8.9 | 9.3 | 9.4 | 10.0 | 10.0 | 10.4 | 10.5 | 11.0 | 10.3 | 10.5 | 6.5 | 8.3 | 7.0 | －1．3 |
| Complete 4 years | 3.3 | 3.6 | 3.7 | 4.8 | 6.2 | 6.6 | 6.5 | 5.6 | 5.7 | 5．1才 | 4.8 | 3.9 | 3.3 | 3.3 | 3.2 | 3.3 | 3.6 | 3.1 | 3.4 | 3.4 | 3.4 | 2.9 | 3.1 | 2.8 | 2.6 | －0．2 |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 4.0 | 2.7 | 4.7 | 5.8 | 5.6 | 7.7 | 6.2 | 8.1 | 8.6 | $5.8 \ddagger$ | 6.0 | 4.2 | 4.0 | 4.7 | 5.0 | 4.0 | 4.4 | 3.5 | 3.4 | 4.0 | 4.0 | 3.0 | 2.7 | 3.4 | 3.2 | －0．2 |
| Midwest | 3.4 | 4.3 | 4.6 | 5.7 | 7.8 | 9.0 | 7.0 | 5.6 | 6.7 | 6．1才 | 6.0 | 5.1 | 3.5 | 3.7 | 3.9 | 4.1 | 4.7 | 3.8 | 4.4 | 3.5 | 3.5 | 3.2 | 2.9 | 3.2 | 2.2 | －1．0 |
| South | 3.6 | 3.9 | 3.6 | 5.1 | 7.3 | 7.5 | 8.3 | 7.6 | 6.5 | 5．7才 | 5.3 | 4.0 | 3.9 | 3.6 | 3.5 | 3.5 | 3.6 | 4.1 | 3.8 | 4.2 | 4.0 | 3.4 | 3.4 | 3.3 | 3.5 | ＋0．2 |
| West | 5.2 | 6.5 | 6.7 | 7.1 | 7.6 | 6.6 | 8.5 | 6.1 | 6.1 | $6.9 \ddagger$ | 8.7 | 5.9 | 5.0 | 4.7 | 3.7 | 5.1 | 5.1 | 4.2 | 4.9 | 5.1 | 5.0 | 4.5 | 4.4 | 3.3 | 3.2 | －0．2 |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 4.1 | 4.6 | 4.9 | 6.0 | 7.1 | 8.6 | 7.8 | 6.3 | 5.8 | 7．5才 | 5.0 | 4.7 | 3.2 | 2.9 | 3.4 | 4.1 | 3.9 | 3.9 | 4.0 | 3.9 | 4.0 | 3.4 | 2.6 | 2.8 | 2.7 | －0．1 |
| Other MSA | 4.8 | 4.4 | 4.9 | 6.4 | 8.0 | 8.2 | 7.9 | 7.6 | 7.8 | 5．8才 | 6.6 | 4.9 | 4.4 | 5.0 | 4.3 | 4.1 | 4.7 | 4.2 | 4.3 | 4.3 | 4.4 | 3.7 | 3.9 | 3.7 | 3.4 | －0．3 |
| Non－MSA | 2.5 | 3.7 | 4.1 | 4.4 | 5.5 | 6.0 | 6.7 | 6.3 | 6.5 | 5．1才 | 6.8 | 4.4 | 4.6 | 3.9 | 4.2 | 3.8 | 4.2 | 3.4 | 3.8 | 4.1 | 3.7 | 3.4 | 3.2 | 3.4 | 2.8 | －0．6 |
| Parental Education：${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 3.7 | 4.9 | 6.0 | 6.1 | 7.7 | 8.0 | 6.5 | 8.3 | 7.0 | $5.2 \ddagger$ | 6.4 | 5.3 | 6.5 | 3.2 | 3.7 | 5.3 | 5.4 | 5.0 | 5.8 | 5.3 | 5.7 | 4.9 | 4.4 | 3.0 | 3.9 | ＋0．8 |
| 2．5－3．0 | 4.3 | 4.2 | 4.5 | 5.5 | 7.6 | 8.5 | 7.3 | 8.2 | 8.1 | 5．8才 | 6.7 | 5.2 | 4.7 | 4.8 | 4.5 | 4.5 | 4.6 | 4.1 | 3.9 | 5.6 | 4.6 | 4.5 | 4.0 | 3.5 | 4.1 | ＋0．6 |
| 3．5－4．0 | 3.7 | 4.6 | 4.8 | 5.9 | 7.6 | 8.6 | 8.2 | 6.6 | 6.6 | 6．7才 | 6.1 | 4.8 | 4.0 | 3.9 | 4.0 | 3.8 | 4.5 | 4.2 | 4.3 | 4.2 | 4.1 | 3.3 | 3.9 | 4.3 | 3.7 | －0．6 |
| 4．5－5．0 | 4.1 | 3.8 | 4.5 | 5.5 | 6.6 | 6.9 | 8.2 | 6.1 | 6.6 | $6.3 \ddagger$ | 6.0 | 4.0 | 3.5 | 3.7 | 4.0 | 3.9 | 4.2 | 3.3 | 3.6 | 3.5 | 3.5 | 3.2 | 2.9 | 2.7 | 2.5 | －0．2 |
| 5．5－6．0（High） | 4.6 | 4.2 | 4.6 | 6.2 | 6.5 | 7.2 | 6.8 | 6.0 | 6.5 | $6.2 \ddagger$ | 5.8 | 5.2 | 3.4 | 4.1 | 3.7 | 4.0 | 3.9 | 3.3 | 4.5 | 3.3 | 3.5 | 2.8 | 3.0 | 2.7 | 2.0 | －0．6 |
| Race／Ethnicity（2－year average）：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | － | 4.9 | 5.1 | 5.6 | 7.1 | 8.6 | 8.9 | 8.4 | 8.2 | 7.6 | $6.6 \ddagger$ | $5.6{ }^{\text {d }}$ | 5.3 | 4.9 | 4.7 | 4.7 | 4.9 | 4.8 | 4.5 | 4.5 | 4.4 | 4.1 | 3.6 | 3.5 | 3.3 | －0．1 |
| African American | － | 0.2 | 0.6 | 1.1 | 1.2 | 0.9 | 1.0 | 1.1 | 1.0 | 1.0 | $1.3 \ddagger$ | $1.4{ }^{\text {d }}$ | 1.0 | 0.8 | 1.2 | 1.4 | 1.0 | 1.1 | 1.4 | 1.6 | 1.4 | 1.4 | 1.5 | 1.5 | 2.0 | ＋0．5 |
| Hispanic | － | 3.6 | 4.5 | 5.7 | 6.3 | 6.6 | 7.3 | 7.3 | 6.4 | 5.2 | $4.4 \ddagger$ | $4.5{ }^{\text {d }}$ | 3.9 | 3.8 | 4.0 | 3.5 | 2.8 | 3.6 | 4.3 | 4.3 | 4.5 | 4.2 | 3.5 | 3.1 | 3.0 | －0．1 |

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

Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding．See Table S2 for the number of subgroup cases．See appendix B for definition of variables in table．

the remaining forms were changed．Beginning in 2002，the data are based on all forms．Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner．
${ }^{\text {b }}$ Parental education is an average score of mother＇s education and father＇s education．See appendix B for details．
${ }^{\text {c }}$ To derive percentages for each racial subgroup，data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates．See appendix $B$ for details on how race／ethnicity is defined．
${ }^{\text {d }}$ Due to changes in the question wording in half of the questionnaire forms in 2001，the 2002 entry comprises half of the 2001 sample data double－weighted（the half with the new version of the question）and all of the 2002 sample data．

TABLE 25
HALLUCINOGENS: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\rightarrow$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | $\underline{1992} \underline{1993} \underline{1994}$ |  | cont.) |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | 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 |  |
| Adjusted ${ }^{\text {b }}$ | - | - | - | - | 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 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 13.7 | 11.6 | 10.8 | 11.6 | 11.8 | 11.7 | 10.9 | 9.6 | 8.6 | 7.9 | 8.1 | 7.2 | 7.5 | 7.2 | 7.4 | 7.7 | 7.5 | 7.1 | 8.9 | 9.2 |  |
| Female | 9.0 | 6.9 | 6.5 | 7.3 | 7.6 | 6.7 | 6.8 | 6.1 | 5.5 | 4.7 | 4.4 | 4.7 | 5.2 | 3.7 | 3.6 | 3.8 | 3.9 | 4.7 | 5.6 | 5.8 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 11.2 | 10.6 | 11.0 | 11.3 | 11.2 | 10.7 | 9.5 | 8.9 | 8.3 | 7.7 | 7.4 | 7.9 | 6.4 | 7.1 | 6.6 | 7.0 | 7.8 | 8.1 | 8.4 |  |
| Complete 4 years | - | 6.9 | 6.4 | 7.3 | 7.5 | 7.1 | 7.4 | 6.2 | 5.4 | 4.7 | 5.0 | 4.7 | 5.4 | 4.7 | 4.8 | 5.3 | 5.3 | 5.1 | 6.9 | 7.0 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 13.2 | 10.9 | 10.6 | 13.0 | 12.9 | 12.2 | 12.9 | 11.4 | 8.7 | 11.3 | 9.9 | 7.9 | 7.5 | 5.8 | 5.6 | 6.6 | 7.0 | 7.1 | 9.0 | 9.0 |  |
| Midwest | 13.0 | 10.3 | 9.7 | 10.7 | 11.1 | 11.3 | 10.3 | 9.1 | 8.9 | 6.0 | 6.8 | 6.6 | 6.9 | 5.3 | 6.6 | 5.7 | 6.5 | 5.9 | 6.8 | 8.1 |  |
| South | 8.5 | 7.4 | 6.8 | 6.3 | 5.7 | 5.4 | 4.1 | 4.6 | 5.2 | 3.9 | 3.2 | 3.3 | 4.8 | 5.2 | 4.9 | 5.0 | 3.7 | 4.7 | 5.9 | 6.7 |  |
| West | 10.2 | 9.3 | 8.2 | 9.6 | 11.0 | 9.2 | 10.4 | 7.8 | 6.3 | 7.0 | 6.3 | 7.2 | 7.4 | 6.0 | 5.5 | 6.9 | 7.3 | 7.3 | 9.2 | 7.1 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 13.9 | 11.1 | 9.9 | 11.9 | 12.3 | 11.6 | 12.0 | 10.9 | 9.2 | 8.8 | 8.3 | 7.6 | 7.9 | 6.5 | 5.4 | 5.7 | 5.1 | 6.2 | 7.3 | 8.1 |  |
| Other MSA | 12.1 | 9.8 | 9.1 | 9.3 | 10.5 | 9.8 | 9.0 | 7.6 | 7.6 | 6.3 | 6.1 | 5.9 | 6.3 | 6.0 | 5.9 | 6.6 | 7.7 | 6.0 | 8.1 | 8.6 |  |
| Non-MSA | 8.5 | 7.7 | 7.5 | 8.3 | 7.1 | 7.1 | 6.8 | 6.5 | 5.3 | 5.0 | 5.0 | 4.9 | 5.3 | 3.5 | 5.0 | 4.5 | 3.3 | 5.5 | 6.3 | 5.1 |  |
| Parental Education: ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 8.9 | 7.4 | 6.8 | 7.7 | 7.1 | 8.0 | 6.7 | 6.5 | 6.5 | 5.4 | 4.8 | 5.4 | 5.8 | 4.9 | 4.2 | 3.8 | 4.9 | 3.6 | 4.9 | 5.0 |  |
| 2.5-3.0 | 10.2 | 10.0 | 9.1 | 9.6 | 9.6 | 9.5 | 8.9 | 8.0 | 6.8 | 6.7 | 6.4 | 6.0 | 6.2 | 4.2 | 4.9 | 4.6 | 4.9 | 5.6 | 5.9 | 7.0 |  |
| 3.5-4.0 | 10.9 | 9.8 | 9.2 | 9.7 | 9.7 | 9.2 | 9.2 | 8.6 | 7.7 | 6.3 | 7.2 | 6.3 | 6.0 | 4.8 | 5.6 | 6.5 | 6.2 | 6.0 | 7.5 | 8.0 |  |
| 4.5-5.0 | 11.1 | 10.1 | 8.8 | 10.2 | 10.9 | 9.1 | 9.4 | 7.8 | 7.0 | 5.9 | 6.2 | 5.5 | 6.8 | 6.7 | 6.6 | 6.8 | 6.1 | 6.2 | 8.9 | 7.7 |  |
| 5.5-6.0 (High) | 8.9 | 9.4 | 9.5 | 10.2 | 11.7 | 9.9 | 10.6 | 9.0 | 7.0 | 7.6 | 4.3 | 5.9 | 7.2 | 7.2 | 7.0 | 8.2 | 7.3 | 7.4 | 8.9 | 9.0 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 9.8 | 9.9 | 10.5 | 10.3 | 10.0 | 9.3 | 8.3 | 7.5 | 7.0 | 6.7 | 6.8 | 6.8 | 6.4 | 6.7 | 6.8 | 6.9 | 7.9 | 8.6 |  |
| African American | - | - | 2.4 | 2.3 | 2.0 | 1.9 | 1.9 | 1.8 | 2.2 | 1.7 | 1.2 | 1.6 | 1.5 | 1.0 | 0.9 | 0.8 | 0.6 | 0.7 | 0.8 | 1.2 |  |
| Hispanic | - | - | 7.9 | 7.2 | 7.0 | 7.1 | 7.0 | 7.7 | 6.6 | 5.2 | 5.7 | 5.7 | 5.0 | 4.0 | 3.2 | 3.3 | 4.4 | 4.6 | 5.3 | 5.8 |  |

[^5]
## TABLE 25 （cont．）

HALLUCINOGENS：${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | $\underline{2001}{ }^{\text {e }}$ | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | $2014^{9}$ | $\underline{2015}{ }^{\text {9 }}$ |  |
| Approximate weighted $N=$ | 15，400 | 14，300 | 15，400 | 15，200 | 13，600 | 12，800 | 12，800 | 12，900 | 14，600 | 14，600 | 14，700 | 14，200 | 14，500 | 14，000 | 13，700 | 14，400 | 14，100 | 13，700 | 12，600 | 12，400 | 12，900 |  |
| Total | 9.3 | 10.1 | 9.8 | 9.0 | 9.4 | 8．1才 | 9.1 | 6.6 | 5.9 | 6.2 | 5.5 | 4.9 | 5.4 | 5.9 | 4.7 | 5.5 | 5.2 | 4.8 | 4.5 | 4.0 | 4.2 | $+0.2$ |
| Adjusted ${ }^{\text {b }}$ | 9.7 | 10.7 | 10.0 | 9.2 | 9.8 | 8．7才 | 9.7 | 7.2 | 6.5 | 6.4 | 5.9 | 5.3 | 5.8 | 6.1 | 5.2 | 6.0 | 5.8 | 5.0 | 4.9 | － | － |  |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 11.9 | 12.4 | 12.0 | 11.0 | 11.4 | $9.6 \ddagger$ | 11.1 | 8.4 | 7.8 | 8.4 | 7.4 | 6.2 | 7.5 | 7.8 | 6.2 | 7.9 | 7.0 | 6.0 | 5.9 | 5.5 | 5.2 | －0．3 |
| Female | 6.3 | 7.3 | 7.4 | 6.8 | 7.4 | $6.3 \ddagger$ | 6.8 | 4.7 | 3.8 | 3.8 | 3.4 | 3.6 | 3.3 | 3.9 | 3.1 | 2.9 | 3.3 | 3.1 | 2.8 | 2.6 | 2.9 | ＋0．3 |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 11.9 | 12.1 | 11.3 | 12.0 | 10.5 | 10．3 $\ddagger$ | 10.4 | 9.8 | 8.2 | 7.7 | 7.8 | 7.0 | 8.3 | 8.4 | 5.6 | 8.4 | 7.7 | 5.8 | 6.0 | 5.8 | 6.1 | ＋0．4 |
| Complete 4 years | 8.2 | 9.0 | 9.0 | 7.8 | 8.7 | $7.0 \ddagger$ | 8.0 | 5.5 | 5.0 | 5.4 | 4.7 | 4.4 | 4.6 | 5.2 | 4.3 | 4.8 | 4.6 | 4.5 | 4.0 | 3.5 | 3.6 | ＋0．1 |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 10.1 | 13.3 | 13.9 | 10.7 | 9.8 | $9.3 \ddagger$ | 9.8 | 9.1 | 7.8 | 7.0 | 5.5 | 7.1 | 6.7 | 8.0 | 4.7 | 6.2 | 5.7 | 5.2 | 4.5 | 4.4 | 3.6 | －0．8 |
| Midwest | 9.2 | 8.8 | 7.6 | 8.4 | 9.8 | $7.0 \ddagger$ | 11.4 | 6.4 | 5.4 | 5.3 | 6.7 | 4.9 | 5.3 | 4.5 | 5.9 | 5.4 | 5.2 | 4.5 | 4.9 | 4.0 | 3.8 | －0．2 |
| South | 8.8 | 8.9 | 9.2 | 8.5 | 8.6 | $6.9 \ddagger$ | 5.8 | 5.6 | 4.9 | 5.7 | 5.2 | 4.1 | 4.2 | 5.7 | 3.9 | 4.5 | 3.9 | 4.2 | 3.9 | 4.0 | 3.9 | －0．1 |
| West | 9.6 | 10.5 | 9.5 | 9.1 | 10.0 | 10．5 $\ddagger$ | 10.8 | 6.2 | 6.3 | 7.4 | 4.4 | 4.3 | 6.5 | 6.2 | 4.6 | 6.6 | 6.7 | 5.5 | 4.8 | 3.6 | 5.3 | ＋1．7 s |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 11.0 | 10.5 | 8.8 | 8.7 | 8.4 | 8．9\＃ | 11.5 | 6.8 | 4.4 | 5.6 | 5.5 | 6.0 | 6.2 | 6.9 | 5.1 | 5.6 | 4.9 | 5.4 | 4.5 | 4.2 | 4.4 | ＋0．2 |
| Other MSA | 9.5 | 11.4 | 11.2 | 9.9 | 10.4 | 8．3才 | 8.7 | 7.2 | 7.2 | 7.2 | 5.9 | 4.5 | 5.1 | 5.7 | 4.7 | 5.9 | 5.6 | 5.0 | 5.0 | 4.1 | 4.5 | ＋0．4 |
| Non－MSA | 7.0 | 7.4 | 8.3 | 7.4 | 8.8 | $7.0 \ddagger$ | 7.3 | 5.2 | 5.5 | 4.8 | 4.5 | 4.1 | 4.8 | 5.3 | 4.2 | 4.3 | 4.4 | 3.2 | 3.1 | 3.3 | 2.7 | －0．6 |
| Parental Education：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 7.2 | 7.4 | 7.3 | 7.9 | 9.0 | $7.0 \ddagger$ | 6.3 | 5.1 | 5.3 | 4.9 | 3.0 | 4.9 | 3.9 | 4.4 | 3.6 | 3.7 | 4.9 | 3.3 | 4.4 | 3.0 | 4.8 | ＋1．8 |
| 2．5－3．0 | 8.7 | 8.8 | 8.5 | 8.8 | 8.6 | $7.4 \ddagger$ | 9.1 | 6.6 | 4.9 | 5.6 | 5.7 | 5.1 | 4.9 | 5.0 | 4.5 | 5.0 | 4.3 | 5.1 | 4.7 | 4.1 | 4.1 | 0.0 |
| 3．5－4．0 | 9.5 | 10.3 | 9.9 | 9.5 | 10.6 | 8．2才 | 9.4 | 7.1 | 6.4 | 6.6 | 5.4 | 5.1 | 5.5 | 5.5 | 4.6 | 6.2 | 5.4 | 4.8 | 4.6 | 4.4 | 4.3 | －0．1 |
| 4．5－5．0 | 9.6 | 10.5 | 10.4 | 8.6 | 9.3 | 7．7 $\ddagger$ | 8.6 | 6.7 | 6.5 | 6.4 | 5.7 | 4.6 | 5.4 | 6.7 | 5.3 | 5.5 | 4.9 | 5.0 | 3.9 | 3.8 | 3.7 | －0．1 |
| 5．5－6．0（High） | 9.5 | 11.4 | 11.6 | 9.4 | 8.4 | $9.6 \ddagger$ | 8.8 | 5.9 | 5.3 | 6.1 | 5.7 | 4.6 | 6.7 | 7.2 | 4.6 | 5.4 | 5.7 | 4.5 | 4.7 | 4.1 | 4.1 | 0.0 |
| Race／Ethnicity（2－year average）：${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 9.5 | 10.8 | 11.6 | 11.3 | 10.7 | 9.9 | $9.0 \ddagger$ | $8.4{ }^{\text {f }}$ | 7.2 | 7.0 | 6.7 | 6.0 | 6.2 | 6.9 | 6.3 | 6.1 | 6.4 | 6.0 | 5.2 | 4.6 | 4.2 | －0．4 |
| African American | 1.2 | 1.7 | 1.9 | 1.4 | 1.2 | 1.6 | $1.4 \ddagger$ | $1.2{ }^{\text {f }}$ | 1.3 | 1.2 | 1.3 | 1.5 | 1.4 | 1.4 | 1.2 | 1.3 | 1.7 | 1.6 | 1.5 | 1.9 | 2.0 | ＋0．1 |
| Hispanic | 7.1 | 8.3 | 7.3 | 6.8 | 7.9 | 9.6 | $7.8 \ddagger$ | $6.0{ }^{\text {f }}$ | 4.6 | 4.1 | 3.9 | 3.8 | 3.9 | 3.5 | 3.3 | 3.3 | 3.0 | 2.9 | 3.5 | 3.5 | 4.0 | ＋0．6 |

Source．The Monitoring the Future study，the University of Michigan．
Notes．＇$\ddagger$＇indicates some change in the question．See relevant footnote．See relevant figure to assess the impact of the wording changes．Level of significance of difference between the two most recent classes： $\mathrm{s}=.05$ ， $\mathrm{ss}=.01$ ， $\mathrm{sss}=.001$ ．
－＇indicates data not available．Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding．See Table S3 for the number of subgroup cases．See appendix B or definition of variables in table．
${ }^{2}$ All data are unadjusted for the underreporting of $P C P$ ，unless otherwise indicated
${ }^{\text {A Adjusted for the underreporting of PCP．See text for details．}}$

${ }^{\mathrm{d}}$ To derive percentages for each racial subgroup，data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates．See appendix B for details on how race／ethnicity is defined
In 2001 the question text was changed on half of the questionnaire forms．Other psychedelics was changed to other hallucinogens，and shrooms was added to the list of examples．The 2001 data are based on the changed forms only；$N$ is one half of $N$ indicated．In 2002 the remaining forms were changed．Beginning in 2002，the data are based on all forms．Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner t＇Due to changes in the question wording in half of the questionnaire forms in 2001，the 2002 entry comprises half of the 2001 sample data double－weighted（the half with the new version of the question）and all of the 2002 sample data ${ }^{9}$ In 2014 questions on use of LSD and hallucinogens other than LSD，the two components of hallucinogen use，were each dropped from one of six forms．Beginning in 2014 data are based on five of six forms；$N$ is five sixths of $N$ indcated

## TABLE 26

LSD: Trends in Annual Prevalence of Use by Subgroups in Grade 8

Percentage who used in last 12 months
2014-
$\underline{1991} \quad \underline{1992} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015} \quad \underline{c h a n g e}$


| Total | 1.7 | 2.1 | 2.3 | 2.4 | 3.2 | 3.5 | 3.2 | 2.8 | 2.4 | 2.4 | 2.2 | 1.5 | 1.3 | 1.1 | 1.2 | 0.9 | 1.1 | 1.3 | 1.1 | 1.2 | 1.1 | 0.8 | 1.0 | 0.7 | 0.9 | +0.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 2.0 | 2.1 | 2.5 | 2.6 | 3.4 | 3.7 | 3.5 | 3.2 | 2.7 | 2.6 | 2.3 | 1.7 | 1.4 | 1.1 | 1.2 | 0.8 | 1.1 | 1.4 | 1.1 | 1.2 | 1.4 | 0.8 | 1.0 | 0.8 | 0.8 | 0.0 |
| Female | 1.3 | 2.0 | 2.1 | 2.1 | 2.9 | 3.2 | 2.8 | 2.4 | 2.0 | 2.2 | 2.1 | 1.3 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | 1.2 | 1.1 | 1.1 | 0.8 | 0.8 | 1.0 | 0.6 | 0.9 | +0.3 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 4.5 | 6.4 | 6.4 | 6.2 | 8.5 | 8.2 | 9.3 | 7.8 | 8.2 | 6.7 | 5.8 | 5.7 | 4.3 | 4.7 | 4.1 | 3.4 | 3.9 | 5.2 | 4.9 | 3.7 | 3.9 | 3.3 | 3.8 | 2.5 | 2.5 | 0.0 |
| Complete 4 years | 1.2 | 1.5 | 1.6 | 1.8 | 2.5 | 2.7 | 2.5 | 2.2 | 1.7 | 2.0 | 1.8 | 1.1 | 0.9 | 0.7 | 0.8 | 0.7 | 0.8 | 1.0 | 0.8 | 0.9 | 0.9 | 0.6 | 0.8 | 0.6 | 0.7 | +0.2 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 1.3 | 1.4 | 1.8 | 2.6 | 2.9 | 2.9 | 2.3 | 2.1 | 2.2 | 1.9 | 1.9 | 0.9 | 1.4 | 1.0 | 0.9 | 0.5 | 0.6 | 0.8 | 0.8 | 1.0 | 0.6 | 0.7 | 0.6 | 0.3 | 0.3 | -0.1 |
| Midwest | 1.4 | 1.8 | 1.4 | 1.7 | 3.5 | 3.4 | 3.3 | 2.5 | 2.7 | 3.0 | 1.7 | 1.8 | 1.2 | 0.9 | 0.9 | 0.7 | 1.2 | 1.3 | 1.1 | 1.4 | 0.9 | 0.3 | 0.9 | 0.6 | 1.0 | +0.4 |
| South | 1.8 | 2.4 | 2.4 | 2.1 | 2.8 | 3.4 | 3.0 | 3.2 | 2.5 | 2.4 | 2.7 | 1.8 | 1.3 | 1.2 | 1.5 | 1.1 | 1.0 | 1.4 | 1.0 | 1.0 | 1.0 | 1.1 | 1.2 | 0.8 | 0.9 | +0.1 |
| West | 2.2 | 2.9 | 3.7 | 3.3 | 3.8 | 4.3 | 4.3 | 3.2 | 1.9 | 2.3 | 2.0 | 1.2 | 1.2 | 1.2 | 1.1 | 1.0 | 1.4 | 1.4 | 1.6 | 1.4 | 2.1 | 0.9 | 1.1 | 1.0 | 1.0 | +0.1 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 1.9 | 2.0 | 2.0 | 2.7 | 3.6 | 3.2 | 2.9 | 2.6 | 2.2 | 2.0 | 1.8 | 1.3 | 1.3 | 1.1 | 1.0 | 0.6 | 0.7 | 1.4 | 1.0 | 1.0 | 1.0 | 0.9 | 1.0 | 0.7 | 0.8 | +0.1 |
| Other MSA | 1.7 | 2.5 | 2.8 | 2.8 | 3.3 | 4.1 | 3.6 | 2.9 | 2.7 | 2.6 | 2.3 | 1.5 | 1.2 | 1.3 | 1.1 | 1.1 | 1.2 | 1.3 | 1.2 | 1.4 | 1.3 | 0.8 | 1.1 | 0.7 | 1.1 | +0.4 |
| Non-MSA | 1.3 | 1.6 | 1.4 | 1.3 | 2.4 | 2.6 | 2.8 | 2.9 | 1.9 | 2.8 | 2.4 | 1.9 | 1.4 | 0.7 | 1.4 | 1.0 | 1.3 | 1.0 | 1.1 | 1.0 | 0.9 | 0.6 | 0.8 | 0.7 | 0.5 | -0.2 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 3.5 | 3.1 | 3.1 | 2.8 | 4.6 | 4.4 | 4.7 | 4.4 | 3.7 | 4.9 | 4.1 | 3.4 | 2.3 | 2.8 | 1.7 | 1.8 | 1.8 | 2.4 | 2.6 | 1.6 | 1.7 | 1.6 | 1.3 | 1.4 | 1.5 | +0.1 |
| 2.5-3.0 | 1.8 | 2.1 | 2.3 | 2.6 | 3.1 | 4.0 | 3.2 | 2.8 | 2.7 | 2.9 | 2.6 | 2.0 | 1.4 | 1.2 | 1.7 | 1.0 | 1.1 | 1.6 | 1.1 | 1.1 | 1.7 | 1.1 | 1.0 | 0.8 | 0.7 | 0.0 |
| 3.5-4.0 | 1.4 | 2.0 | 2.4 | 2.4 | 3.6 | 3.5 | 3.4 | 3.1 | 2.4 | 2.2 | 2.4 | 1.3 | 1.3 | 1.0 | 1.5 | 1.0 | 1.0 | 1.1 | 1.0 | 1.4 | 1.2 | 0.7 | 0.8 | 1.0 | 1.1 | +0.1 |
| 4.5-5.0 | 1.4 | 1.5 | 2.1 | 2.1 | 2.6 | 3.4 | 2.9 | 2.5 | 1.9 | 1.8 | 1.5 | 1.2 | 1.1 | 1.0 | 0.6 | 0.7 | 1.0 | 1.0 | 0.8 | 1.0 | 0.8 | 0.4 | 1.0 | 0.4 | 0.7 | +0.3 |
| 5.5-6.0 (High) | 1.3 | 2.0 | 2.0 | 2.1 | 2.9 | 3.0 | 2.9 | 2.4 | 1.9 | 2.3 | 1.3 | 0.8 | 0.8 | 0.6 | 0.4 | 0.7 | 0.6 | 1.3 | 0.9 | 0.8 | 0.8 | 0.7 | 1.1 | 0.6 | 0.6 | 0.0 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 1.9 | 2.3 | 2.5 | 3.1 | 3.9 | 3.9 | 3.2 | 2.6 | 2.6 | 2.6 | 2.0 | 1.5 | 1.1 | 1.0 | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 1.0 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 |
| African American | - | 0.5 | 0.4 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.4 | 0.6 | 0.8 | 0.9 | 0.6 | 0.3 | 0.6 | 0.7 | 0.5 | 0.6 | 0.6 | 0.8 | 0.6 | 0.4 | -0.2 |
| Hispanic | - | 3.3 | 3.7 | 3.6 | 3.3 | 3.5 | 3.9 | 4.2 | 3.9 | 3.5 | 3.2 | 2.4 | 1.7 | 1.8 | 1.7 | 1.0 | 1.3 | 1.6 | 1.5 | 1.6 | 1.8 | 1.4 | 1.2 | 1.2 | 1.0 | -0.2 |

Source. The Monitoring the Future study, the University of Michigan.
 rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table,

To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

## TABLE 27

LSD: Trends in Annual Prevalence of Use by Subgroups in Grade 10

Percentage who used in last 12 months
2014-
$\underline{1991} \quad \underline{1992} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015} \quad \underline{\text { change }}$


| Total | 3.7 | 4.0 | 4.2 | 5.2 | 6.5 | 6.9 | 6.7 | 5.9 | 6.0 | 5.1 | 4.1 | 2.6 | 1.7 | 1.6 | 1.5 | 1.7 | 1.9 | 1.8 | 1.9 | 1.9 | 1.8 | 1.7 | 1.7 | 1.9 | 2.0 | +0.1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 3.9 | 4.3 | 5.1 | 5.9 | 7.4 | 7.6 | 7.6 | 6.3 | 7.0 | 5.9 | 5.1 | 3.1 | 1.9 | 1.8 | 1.9 | 2.1 | 2.3 | 2.2 | 2.3 | 2.4 | 2.2 | 2.3 | 2.3 | 2.1 | 2.2 | +0.1 |
| Female | 3.4 | 3.6 | 3.2 | 4.3 | 5.5 | 6.2 | 5.8 | 5.4 | 5.1 | 4.3 | 3.1 | 2.0 | 1.6 | 1.4 | 1.0 | 1.3 | 1.5 | 1.3 | 1.3 | 1.3 | 1.3 | 1.1 | 1.0 | 1.8 | 1.5 | -0.3 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 6.8 | 7.0 | 8.4 | 9.4 | 11.1 | 13.1 | 12.8 | 12.4 | 13.1 | 11.1 | 9.9 | 6.0 | 4.4 | 4.5 | 4.1 | 5.1 | 4.3 | 5.1 | 5.9 | 5.1 | 4.2 | 6.3 | 3.5 | 5.2 | 4.2 | -1.0 |
| Complete 4 years | 3.0 | 3.4 | 3.3 | 4.2 | 5.6 | 5.8 | 5.7 | 4.7 | 4.9 | 4.1 | 3.2 | 2.0 | 1.3 | 1.2 | 1.1 | 1.2 | 1.5 | 1.3 | 1.4 | 1.5 | 1.6 | 1.3 | 1.5 | 1.5 | 1.7 | +0.2 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 3.6 | 2.6 | 3.8 | 5.1 | 4.7 | 6.4 | 5.2 | 7.1 | 7.5 | 4.1 | 4.0 | 2.2 | 1.8 | 1.7 | 2.3 | 1.7 | 1.8 | 1.5 | 1.6 | 2.0 | 1.8 | 1.4 | 1.7 | 1.7 | 2.1 | +0.5 |
| Midwest | 3.2 | 4.1 | 4.4 | 5.2 | 7.3 | 8.3 | 6.0 | 4.5 | 6.0 | 5.4 | 4.3 | 2.8 | 1.7 | 1.5 | 1.2 | 1.6 | 2.2 | 2.0 | 2.3 | 1.4 | 1.7 | 1.6 | 1.5 | 2.0 | 1.4 | -0.5 |
| South | 3.3 | 3.7 | 3.2 | 4.6 | 6.8 | 6.8 | 7.9 | 6.5 | 5.8 | 5.0 | 3.5 | 2.3 | 1.7 | 1.4 | 1.4 | 1.7 | 1.6 | 1.8 | 1.6 | 2.1 | 2.1 | 1.7 | 1.5 | 2.2 | 2.4 | +0.2 |
| West | 4.8 | 5.9 | 6.1 | 6.3 | 6.5 | 5.7 | 7.4 | 5.2 | 5.1 | 5.9 | 5.3 | 3.2 | 1.7 | 1.9 | 1.0 | 1.8 | 1.9 | 1.7 | 2.0 | 2.0 | 1.8 | 2.1 | 1.9 | 1.5 | 1.6 | +0.1 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 3.8 | 4.4 | 4.4 | 5.4 | 6.6 | 7.6 | 7.0 | 5.4 | 4.9 | 6.4 | 3.8 | 2.6 | 1.3 | 1.1 | 1.2 | 1.6 | 1.6 | 1.5 | 1.7 | 1.7 | 1.8 | 1.8 | 1.3 | 1.7 | 1.7 | -0.1 |
| Other MSA | 4.4 | 4.1 | 4.4 | 5.9 | 7.1 | 7.4 | 7.0 | 6.6 | 6.7 | 4.8 | 4.1 | 2.7 | 1.7 | 1.9 | 1.5 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 1.8 | 1.7 | 2.2 | 2.1 | 2.4 | +0.3 |
| Non-MSA | 2.3 | 3.5 | 3.7 | 3.7 | 5.0 | 5.2 | 6.0 | 5.0 | 5.9 | 4.4 | 4.6 | 2.3 | 2.3 | 1.5 | 1.8 | 1.8 | 1.7 | 1.7 | 1.4 | 2.1 | 1.9 | 1.8 | 0.9 | 1.6 | 1.4 | -0.2 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 3.1 | 4.4 | 5.5 | 5.5 | 6.9 | 7.6 | 5.9 | 7.9 | 6.3 | 4.9 | 3.9 | 2.7 | 3.7 | 1.3 | 1.8 | 2.5 | 2.9 | 2.2 | 2.5 | 2.4 | 3.0 | 2.0 | 2.2 | 1.7 | 2.5 | +0.8 |
| 2.5-3.0 | 4.0 | 4.2 | 4.2 | 5.1 | 6.9 | 7.6 | 6.6 | 7.0 | 7.3 | 5.1 | 4.8 | 2.9 | 2.0 | 1.7 | 1.7 | 2.1 | 2.0 | 1.6 | 1.9 | 2.5 | 1.8 | 2.6 | 1.8 | 1.8 | 2.0 | +0.2 |
| 3.5-4.0 | 3.4 | 4.1 | 4.2 | 5.3 | 6.9 | 7.9 | 7.4 | 5.6 | 5.8 | 5.6 | 4.3 | 2.8 | 1.7 | 1.4 | 1.6 | 1.6 | 1.8 | 1.9 | 2.0 | 1.8 | 1.8 | 1.4 | 1.7 | 2.3 | 2.4 | +0.1 |
| 4.5-5.0 | 3.8 | 3.6 | 3.9 | 4.8 | 6.0 | 6.0 | 7.0 | 5.0 | 5.7 | 5.0 | 3.8 | 2.0 | 1.2 | 1.4 | 1.2 | 1.3 | 1.7 | 1.5 | 1.5 | 1.6 | 1.7 | 1.6 | 1.5 | 1.6 | 1.5 | -0.1 |
| 5.5-6.0 (High) | 4.2 | 3.9 | 3.9 | 5.4 | 5.9 | 5.8 | 6.0 | 4.6 | 5.3 | 5.0 | 3.5 | 2.4 | 1.2 | 1.6 | 1.4 | 1.3 | 1.7 | 1.9 | 2.2 | 1.9 | 1.6 | 1.3 | 1.7 | 1.6 | 1.6 | -0.1 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 4.6 | 4.6 | 5.0 | 6.4 | 7.7 | 7.9 | 7.3 | 7.0 | 6.5 | 5.2 | 3.8 | 2.4 | 1.9 | 1.7 | 1.8 | 2.0 | 2.0 | 1.9 | 2.0 | 2.0 | 1.9 | 1.9 | 2.0 | 2.1 | +0.1 |
| African American | - | 0.2 | 0.5 | 0.9 | 1.0 | 0.8 | 0.9 | 1.0 | 0.9 | 0.9 | 0.9 | 0.6 | 0.4 | 0.4 | 0.6 | 0.7 | 0.6 | 0.7 | 0.9 | 1.1 | 1.0 | 0.8 | 0.8 | 1.1 | 1.2 | +0.2 |
| Hispanic | - | 3.2 | 4.1 | 5.0 | 5.7 | 6.1 | 6.7 | 6.6 | 5.6 | 4.6 | 3.7 | 2.9 | 2.4 | 1.7 | 1.6 | 1.6 | 1.4 | 1.8 | 2.0 | 1.7 | 1.9 | 1.9 | 1.5 | 1.4 | 1.6 | +0.2 |

[^6]
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 28
LSD: Trends in Annual Prevalence of Use by Subgroups in Grade 12

(Table continued on next page.)

## TABLE 28 (cont.)

## LSD: Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}{ }^{\text {c }}$ | $\underline{2015}{ }^{\text {c }}$ |  |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 8.4 | 8.8 | 8.4 | 7.6 | 8.1 | 6.6 | 6.6 | 3.5 | 1.9 | 2.2 | 1.8 | 1.7 | 2.1 | 2.7 | 1.9 | 2.6 | 2.7 | 2.4 | 2.2 | 2.5 | 2.9 | +0.4 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 10.7 | 10.9 | 10.3 | 9.3 | 10.0 | 7.6 | 7.9 | 4.4 | 2.5 | 3.1 | 2.7 | 2.1 | 3.0 | 3.7 | 2.4 | 3.6 | 3.6 | 2.9 | 2.9 | 3.4 | 3.5 | +0.1 |
| Female | 5.8 | 6.5 | 6.2 | 5.7 | 6.1 | 5.3 | 5.0 | 2.3 | 1.2 | 1.2 | 0.9 | 1.1 | 1.2 | 1.6 | 1.3 | 1.4 | 1.7 | 1.6 | 1.3 | 1.5 | 2.1 | +0.6 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 11.2 | 11.4 | 10.3 | 10.9 | 9.4 | 8.7 | 8.2 | 5.7 | 3.0 | 3.2 | 3.4 | 2.6 | 4.1 | 4.8 | 2.5 | 4.2 | 3.7 | 3.1 | 3.4 | 3.7 | 4.4 | +0.7 |
| Complete 4 years | 7.3 | 7.7 | 7.4 | 6.3 | 7.3 | 5.6 | 5.7 | 2.7 | 1.4 | 1.8 | 1.3 | 1.4 | 1.6 | 2.1 | 1.6 | 2.1 | 2.4 | 2.2 | 1.7 | 2.2 | 2.4 | +0.3 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 8.8 | 11.9 | 11.8 | 8.2 | 7.8 | 7.1 | 6.7 | 5.4 | 2.4 | 2.3 | 1.7 | 3.0 | 2.1 | 3.0 | 2.6 | 3.7 | 3.0 | 2.9 | 2.7 | 2.6 | 2.3 | -0.3 |
| Midwest | 8.3 | 7.7 | 7.0 | 7.6 | 9.1 | 5.9 | 8.6 | 3.7 | 1.8 | 1.8 | 2.1 | 1.6 | 2.7 | 2.5 | 2.4 | 2.8 | 3.0 | 1.9 | 2.3 | 2.3 | 2.4 | +0.1 |
| South | 8.1 | 7.9 | 8.1 | 7.4 | 7.7 | 6.0 | 4.7 | 3.1 | 1.9 | 2.6 | 1.8 | 1.4 | 1.7 | 3.0 | 1.2 | 2.0 | 2.1 | 2.1 | 1.8 | 3.1 | 3.1 | 0.0 |
| West | 8.5 | 8.8 | 6.9 | 7.1 | 7.7 | 7.9 | 6.6 | 2.1 | 1.4 | 2.3 | 1.6 | 1.1 | 2.0 | 2.2 | 1.5 | 2.3 | 2.9 | 2.8 | 2.2 | 1.6 | 3.5 | +1.9 ss |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 9.7 | 9.0 | 7.7 | 7.2 | 6.8 | 6.7 | 7.7 | 3.3 | 1.5 | 1.9 | 1.8 | 2.2 | 2.4 | 2.7 | 2.4 | 2.4 | 2.4 | 2.5 | 2.2 | 2.6 | 3.3 | +0.7 |
| Other MSA | 8.7 | 10.0 | 9.3 | 8.4 | 9.2 | 6.9 | 6.4 | 4.0 | 2.2 | 2.6 | 1.9 | 1.5 | 2.0 | 2.8 | 1.7 | 2.9 | 3.0 | 2.7 | 2.4 | 2.6 | 3.2 | +0.6 |
| Non-MSA | 6.5 | 6.5 | 7.3 | 6.1 | 7.4 | 5.9 | 5.6 | 2.7 | 1.7 | 1.9 | 1.7 | 1.2 | 1.8 | 2.6 | 1.4 | 2.0 | 2.3 | 1.4 | 1.5 | 2.1 | 1.5 | -0.6 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 6.6 | 6.7 | 6.8 | 6.8 | 8.6 | 5.6 | 5.4 | 2.4 | 1.5 | 3.2 | 1.7 | 1.5 | 2.3 | 2.3 | 1.8 | 1.9 | 2.4 | 1.7 | 2.0 | 2.0 | 3.8 | +1.8 s |
| 2.5-3.0 | 8.1 | 8.2 | 7.3 | 7.8 | 7.6 | 6.4 | 6.7 | 3.4 | 1.9 | 2.4 | 1.9 | 2.0 | 1.9 | 2.4 | 1.6 | 2.3 | 2.3 | 2.6 | 2.8 | 2.5 | 2.7 | +0.2 |
| 3.5-4.0 | 8.6 | 9.3 | 8.5 | 8.2 | 9.0 | 6.7 | 6.3 | 4.0 | 1.7 | 1.8 | 1.5 | 1.9 | 2.1 | 2.4 | 1.6 | 2.7 | 2.8 | 2.4 | 1.9 | 2.7 | 2.9 | +0.2 |
| 4.5-5.0 | 8.6 | 8.7 | 8.6 | 6.5 | 8.0 | 6.0 | 6.7 | 3.1 | 1.7 | 2.0 | 1.7 | 1.3 | 2.0 | 2.8 | 1.9 | 2.3 | 2.7 | 2.4 | 1.9 | 2.1 | 2.5 | +0.3 |
| 5.5-6.0 (High) | 8.3 | 9.2 | 9.5 | 7.3 | 6.4 | 7.0 | 5.6 | 2.8 | 1.7 | 2.2 | 1.7 | 1.1 | 2.3 | 3.2 | 2.1 | 3.2 | 2.4 | 2.2 | 2.1 | 2.8 | 2.9 | +0.1 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 8.6 | 9.7 | 10.1 | 9.5 | 9.1 | 8.3 | 7.5 | 5.8 | 3.0 | 2.2 | 2.2 | 1.8 | 2.1 | 2.8 | 2.6 | 2.7 | 3.3 | 3.1 | 2.5 | 2.4 | 2.6 | +0.2 |
| African American | 1.0 | 1.3 | 1.6 | 1.1 | 0.8 | 1.3 | 1.3 | 0.8 | 0.8 | 0.8 | 0.7 | 0.9 | 0.8 | 0.8 | 0.7 | 0.8 | 1.0 | 0.9 | 0.8 | 1.1 | 1.3 | +0.3 |
| Hispanic | 6.4 | 7.4 | 6.3 | 5.9 | 7.0 | 7.6 | 5.8 | 3.8 | 1.8 | 1.7 | 1.7 | 1.4 | 1.8 | 1.8 | 1.3 | 0.9 | 1.0 | 1.3 | 1.7 | 2.0 | 3.1 | +1.1 ss |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  race/ethnicity is defined. <br> ${ }^{\mathrm{c}}$ In 2014 questions on use of LSD were dropped from one of six forms. Beginning in 2014 data are based on five of six forms; $N$ is five sixths of $N$ indcated. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## TABLE 29

## HALLUCINOGENS OTHER THAN LSD：Trends in Annual Prevalence of Use <br> by Subgroups in Grade 8

Percentage who used in last 12 months
2014－



| Total | 0.7 | 1.1 | 1.0 | 1.3 | 1.7 | 2.0 | 1.8 | 1.6 | 1.5 | $1.4 \ddagger$ | 2.4 | 2.1 | 2.1 | 1.9 | 2.0 | 1.8 | 1.6 | 1.6 | 1.5 | 1.8 | 1.8 | 1.3 | 1.2 | 1.0 | 0.8 | －0．1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 0.8 | 1.1 | 1.2 | 1.6 | 1.9 | 2.1 | 2.1 | 1.8 | 1.8 | $1.5 \ddagger$ | 2.8 | 2.4 | 2.4 | 1.9 | 2.2 | 1.8 | 1.7 | 1.6 | 1.7 | 2.1 | 2.1 | 1.3 | 1.2 | 1.2 | 1.0 | －0．2 |
| Female | 0.6 | 1.0 | 0.9 | 0.9 | 1.4 | 1.7 | 1.4 | 1.4 | 1.1 | 1．3才 | 2.0 | 1.7 | 1.8 | 1.8 | 1.8 | 1.7 | 1.4 | 1.5 | 1.4 | 1.6 | 1.4 | 1.2 | 1.1 | 0.7 | 0.7 | 0.0 |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 1.7 | 3.6 | 2.9 | 3.6 | 4.8 | 5.2 | 4.7 | 5.1 | 5.3 | 3．9\＃ | 7.4 | 6.5 | 7.5 | 6.5 | 6.1 | 5.5 | 6.0 | 6.9 | 5.9 | 6.0 | 5.8 | 3.8 | 3.7 | 3.2 | 3.1 | －0．1 |
| Complete 4 years | 0.5 | 0.7 | 0.7 | 1.0 | 1.3 | 1.4 | 1.4 | 1.2 | 1.0 | $1.2 \ddagger$ | 1.8 | 1.6 | 1.5 | 1.4 | 1.6 | 1.4 | 1.2 | 1.1 | 1.2 | 1.5 | 1.5 | 1.1 | 1.0 | 0.8 | 0.6 | －0．1 |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 0.4 | 0.6 | 0.7 | 1.4 | 1.8 | 2.1 | 1.7 | 1.2 | 1.4 | $1.3 \ddagger$ | 2.1 | 1.3 | 1.9 | 1.6 | 1.5 | 1.2 | 0.8 | 1.0 | 1.3 | 1.4 | 0.9 | 1.2 | 0.5 | 0.5 | 0.6 | ＋0．1 |
| Midwest | 0.6 | 1.3 | 0.6 | 1.1 | 1.6 | 1.8 | 1.8 | 1.9 | 1.7 | 1．8 $\ddagger$ | 1.8 | 2.1 | 2.2 | 1.7 | 1.9 | 1.7 | 1.7 | 1.4 | 1.4 | 2.0 | 1.4 | 0.7 | 1.1 | 0.8 | 0.8 | 0.0 |
| South | 0.7 | 1.0 | 1.0 | 1.0 | 1.5 | 1.7 | 1.4 | 1.8 | 1.6 | $1.3 \ddagger$ | 2.9 | 2.2 | 2.2 | 1.9 | 2.4 | 1.8 | 1.4 | 1.7 | 1.4 | 1.4 | 1.5 | 1.6 | 1.3 | 0.9 | 0.9 | 0.0 |
| West | 1.4 | 1.3 | 1.9 | 1.9 | 1.9 | 2.6 | 2.7 | 1.3 | 1.1 | 1．4 $\ddagger$ | 2.4 | 2.6 | 2.3 | 2.2 | 2.0 | 2.2 | 2.3 | 1.8 | 2.1 | 2.6 | 3.4 | 1.4 | 1.5 | 1.5 | 0.9 | －0．6 |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 0.7 | 0.8 | 0.7 | 1.6 | 1.6 | 1.8 | 1.4 | 1.3 | 1.1 | $1.2 \ddagger$ | 1.9 | 1.6 | 1.6 | 1.4 | 2.0 | 1.2 | 1.3 | 1.4 | 1.2 | 1.6 | 1.7 | 1.4 | 1.0 | 0.8 | 0.7 | －0．1 |
| Other MSA | 0.7 | 1.3 | 1.3 | 1.4 | 1.8 | 2.2 | 1.9 | 1.6 | 1.5 | 1．7 $\ddagger$ | 2.6 | 1.9 | 2.1 | 2.1 | 2.0 | 2.0 | 1.6 | 1.7 | 1.6 | 2.0 | 2.2 | 1.4 | 1.2 | 1.0 | 1.0 | 0.0 |
| Non－MSA | 0.7 | 1.0 | 0.9 | 0.8 | 1.5 | 1.7 | 1.9 | 2.0 | 1.9 | 1．3才 | 2.6 | 3.0 | 3.0 | 2.0 | 2.2 | 2.1 | 2.0 | 1.3 | 1.8 | 1.7 | 1.1 | 0.9 | 1.2 | 1.1 | 0.8 | －0．3 |
| Parental Education：${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 1.5 | 1.8 | 1.4 | 1.6 | 2.4 | 2.2 | 2.6 | 2.7 | 2.6 | 2．5 $\ddagger$ | 5.0 | 3.4 | 3.5 | 3.9 | 2.7 | 2.3 | 2.5 | 3.1 | 3.3 | 2.7 | 3.1 | 1.6 | 1.8 | 1.6 | 1.1 | －0．5 |
| 2．5－3．0 | 0.8 | 0.7 | 1.1 | 1.1 | 1.7 | 2.1 | 2.0 | 1.3 | 1.9 | 1．5才 | 2.3 | 2.6 | 2.8 | 2.0 | 2.9 | 2.2 | 1.5 | 1.7 | 1.3 | 2.4 | 2.3 | 1.5 | 1.4 | 1.1 | 0.8 | －0．3 |
| 3．5－4．0 | 0.4 | 1.2 | 1.2 | 1.2 | 1.8 | 2.0 | 1.6 | 1.8 | 1.3 | $1.3 \ddagger$ | 2.6 | 1.9 | 2.2 | 1.7 | 2.6 | 1.8 | 1.9 | 1.7 | 1.6 | 2.0 | 1.9 | 1.7 | 1.2 | 1.0 | 0.8 | －0．2 |
| 4．5－5．0 | 0.8 | 0.9 | 0.7 | 1.5 | 1.6 | 2.0 | 1.6 | 1.5 | 0.9 | 1．1才 | 1.6 | 1.7 | 1.5 | 1.6 | 1.6 | 1.7 | 1.2 | 1.2 | 1.3 | 1.7 | 1.4 | 0.8 | 0.9 | 0.6 | 0.6 | ＋0．1 |
| 5．5－6．0（High） | 0.8 | 1.3 | 0.9 | 1.5 | 1.7 | 1.4 | 1.9 | 1.9 | 1.5 | $2.0 \ddagger$ | 1.9 | 1.5 | 1.6 | 1.6 | 1.0 | 1.2 | 0.9 | 1.3 | 1.3 | 1.0 | 1.2 | 1.1 | 1.0 | 1.0 | 0.7 | －0．3 |
| Race／Ethnicity（2－year average）：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | － | 0.9 | 1.0 | 1.2 | 1.7 | 2.1 | 2.1 | 1.8 | 1.6 | 1.6 | $1.4 \ddagger$ | $1.5{ }^{\text {d }}$ | 2.3 | 2.2 | 2.1 | 2.2 | 1.8 | 1.7 | 1.6 | 1.8 | 1.8 | 1.3 | 1.1 | 1.0 | 0.8 | －0．2 s |
| African American | － | 0.4 | 0.5 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0．3 $\ddagger$ | $0.4{ }^{\text {d }}$ | 0.6 | 0.8 | 0.9 | 0.9 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.7 | 0.7 | 0.4 | 0.5 | ＋0．1 |
| Hispanic | － | 1.5 | 1.5 | 1.5 | 1.8 | 2.1 | 2.0 | 2.2 | 2.2 | 1.8 | $1.2 \ddagger$ | $1.8{ }^{\text {d }}$ | 2.2 | 2.2 | 2.1 | 1.4 | 1.6 | 1.9 | 1.8 | 2.1 | 2.6 | 2.3 | 1.6 | 1.3 | 1.0 | －0．3 |

Source．The Monitoring the Future study，the University of Michigan．
 Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding．See Table S 1 for the number of subgroup cases．See appendix B for definition of variables in table．
 the remaining forms were changed．Beginning in 2002，the data are based on all forms．Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and
reated in a parallel manner．
${ }^{5}$ Parental education is an average score of mother＇s education and father＇s education．See appendix B for details．
${ }^{\text {＇To }}$ derive percentages for each racial subgroup，data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates．See appendix $\mathbf{B}$ for details on how race／ethnicity is defined
Due to changes in the question wording in half of the questionnaire forms in 2001，the 2002 entry comprises half of the 2001 sample data double－weighted（the half with the new version of the question）and all of the 2002 sample data．

## TABLE 30

## HALLUCINOGENS OTHER THAN LSD：Trends in Annual Prevalence of Use

by Subgroups in Grade 10

Percentage who used in last 12 months
2014－



| Total | 1.3 | 1.4 | 1.9 | 2.4 | 2.8 | 3.3 | 3.3 | 3.4 | 3.2 | 3．1才 | 4.4 | 4.0 | 3.6 | 3.7 | 3.5 | 3.7 | 3.8 | 3.3 | 3.5 | 3.5 | 3.5 | 3.0 | 2.7 | 2.6 | 1.9 | －0．6 s |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1.5 | 1.6 | 2.5 | 3.0 | 3.4 | 3.8 | 4.1 | 3.9 | 4.1 | 3．8才 | 5.7 | 4.6 | 4.4 | 4.3 | 4.2 | 4.1 | 4.7 | 4.0 | 4.4 | 4.4 | 4.1 | 4.0 | 3.5 | 2.5 | 2.2 | －0．3 |
| Female | 1.1 | 1.1 | 1.2 | 1.7 | 2.1 | 2.7 | 2.5 | 2.8 | 2.3 | $2.4 \ddagger$ | 3.1 | 3.4 | 2.8 | 3.2 | 2.9 | 3.1 | 3.0 | 2.6 | 2.6 | 2.5 | 2.9 | 2.1 | 2.0 | 2.7 | 1.6 | -1.0 ss |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 2.5 | 2.7 | 3.7 | 4.8 | 5.3 | 6.2 | 4.8 | 7.3 | 6.7 | 6．1才 | 10.9 | 8.8 | 7.3 | 8.2 | 8.5 | 9.0 | 8.9 | 9.0 | 9.0 | 10.0 | 9.4 | 8.7 | 4.8 | 6.3 | 4.9 | －1．4 |
| Complete 4 years | 1.1 | 1.1 | 1.5 | 1.9 | 2.3 | 2.7 | 3.0 | 2.6 | 2.6 | $2.6 \ddagger$ | 3.3 | 3.3 | 2.9 | 3.1 | 2.8 | 3.0 | 3.2 | 2.6 | 2.9 | 2.8 | 2.8 | 2.4 | 2.5 | 2.1 | 1.6 | －0．5 s |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 1.4 | 0.7 | 2.3 | 3.2 | 3.0 | 3.9 | 3.2 | 4.7 | 4.5 | 3．4\＃ | 4.2 | 3.6 | 3.4 | 4.3 | 4.4 | 3.7 | 4.1 | 2.9 | 2.7 | 3.3 | 3.3 | 2.8 | 1.8 | 2.9 | 2.1 | －0．8 |
| Midwest | 1.0 | 1.2 | 1.7 | 1.9 | 2.2 | 3.2 | 3.4 | 3.2 | 2.8 | 3．3 $\ddagger$ | 4.0 | 4.3 | 2.9 | 3.3 | 3.6 | 3.7 | 4.0 | 3.3 | 3.8 | 2.9 | 2.9 | 2.4 | 2.3 | 2.4 | 1.3 | －1．1 ss |
| South | 1.3 | 1.2 | 1.5 | 2.1 | 2.7 | 3.1 | 3.1 | 3.2 | 2.7 | $2.9 \ddagger$ | 3.6 | 3.4 | 3.5 | 3.3 | 3.0 | 3.0 | 3.1 | 3.5 | 3.3 | 3.5 | 3.4 | 3.0 | 2.8 | 2.2 | 2.0 | －0．2 |
| West | 1.6 | 2.6 | 2.5 | 3.0 | 3.5 | 3.0 | 3.6 | 2.5 | 3.3 | $3.0 \ddagger$ | 6.7 | 5.1 | 4.5 | 4.2 | 3.3 | 4.7 | 4.4 | 3.6 | 4.3 | 4.4 | 4.6 | 3.9 | 3.7 | 2.8 | 2.4 | －0．5 |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 1.4 | 1.5 | 1.9 | 2.4 | 2.7 | 3.4 | 3.3 | 3.1 | 3.1 | $3.9 \ddagger$ | 3.4 | 4.0 | 2.8 | 2.7 | 2.9 | 3.8 | 3.4 | 3.3 | 3.4 | 3.2 | 3.5 | 2.8 | 2.0 | 2.2 | 1.7 | －0．5 |
| Other MSA | 1.4 | 1.4 | 1.9 | 2.5 | 3.0 | 3.5 | 3.2 | 3.4 | 3.5 | 2．9才 | 4.8 | 4.0 | 3.9 | 4.4 | 3.9 | 3.7 | 4.1 | 3.6 | 3.6 | 3.7 | 3.8 | 3.2 | 3.1 | 2.8 | 2.0 | －0．8 |
| Non－MSA | 1.0 | 1.2 | 2.0 | 2.3 | 2.5 | 2.7 | 3.5 | 3.5 | 2.7 | $2.8 \ddagger$ | 4.5 | 3.9 | 3.8 | 3.6 | 3.6 | 3.3 | 3.8 | 2.9 | 3.4 | 3.6 | 3.0 | 2.9 | 2.7 | 2.5 | 2.1 | －0．5 |
| Parental Education：${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 1.5 | 1.5 | 2.0 | 2.6 | 3.3 | 3.4 | 2.4 | 2.9 | 3.4 | $2.5 \ddagger$ | 4.8 | 4.4 | 5.2 | 2.8 | 3.1 | 4.7 | 4.5 | 4.7 | 5.0 | 4.7 | 4.9 | 4.1 | 3.6 | 2.5 | 2.8 | ＋0．3 |
| 2．5－3．0 | 1.2 | 1.0 | 1.4 | 1.8 | 2.7 | 3.4 | 2.7 | 4.2 | 3.0 | $2.6 \ddagger$ | 4.4 | 4.3 | 4.2 | 4.5 | 4.1 | 3.8 | 3.9 | 3.3 | 3.2 | 5.0 | 4.1 | 3.5 | 3.5 | 2.6 | 2.7 | ＋0．1 |
| 3．5－4．0 | 1.3 | 1.7 | 2.3 | 2.3 | 3.0 | 3.2 | 3.6 | 3.0 | 2.8 | $3.2 \ddagger$ | 4.3 | 4.0 | 3.3 | 3.6 | 3.6 | 3.4 | 4.1 | 3.5 | 3.7 | 3.4 | 3.3 | 2.8 | 3.0 | 3.1 | 2.3 | －0．8 |
| 4．5－5．0 | 1.2 | 1.5 | 1.9 | 2.6 | 2.5 | 3.3 | 3.7 | 3.0 | 3.7 | 3．7 $\ddagger$ | 4.4 | 3.5 | 3.2 | 3.5 | 3.5 | 3.7 | 3.8 | 2.9 | 3.2 | 2.8 | 3.1 | 2.9 | 2.4 | 2.2 | 1.6 | －0．5 |
| 5．5－6．0（High） | 1.8 | 1.1 | 2.1 | 2.8 | 2.5 | 3.5 | 3.6 | 3.7 | 3.7 | $3.7 \ddagger$ | 3.9 | 4.6 | 3.0 | 3.5 | 3.3 | 3.8 | 3.3 | 2.6 | 3.8 | 2.6 | 3.2 | 2.4 | 2.0 | 2.1 | 1.2 | －0．9 s |
| Race／Ethnicity（2－year average）：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | － | 1.5 | 1.8 | 2.3 | 2.8 | 3.4 | 3.9 | 4.0 | 4.0 | 3.8 | $3.4 \ddagger$ | $4.0^{\text {d }}$ | 4.7 | 4.4 | 4.2 | 4.2 | 4.4 | 4.2 | 3.9 | 3.8 | 3.8 | 3.5 | 3.0 | 2.7 | 2.4 | －0．4 |
| African American | － | 0.1 | 0.4 | 0.7 | 0.7 | 0.4 | 0.3 | 0.4 | 0.5 | 0.6 | 1．1才 | $1.3{ }^{\text {d }}$ | 0.9 | 0.7 | 1.1 | 1.2 | 0.8 | 0.7 | 1.1 | 1.2 | 1.0 | 1.1 | 1.1 | 0.9 | 1.4 | ＋0．5 |
| Hispanic | － | 1.3 | 1.5 | 1.9 | 2.0 | 2.1 | 2.4 | 2.8 | 2.6 | 2.0 | $1.6 \ddagger$ | $2.5{ }^{\text {d }}$ | 2.9 | 3.2 | 3.5 | 3.0 | 2.3 | 2.9 | 3.6 | 3.7 | 3.7 | 3.5 | 2.9 | 2.4 | 2.0 | －0．4 |

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


Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding．See Table S2 for the number of subgroup cases．See appendix B for definition of variables in table．

the remaining forms were changed．Beginning in 2002，the data are based on all forms．Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner．
Parental education is an average score of mother＇s education and father＇s education．See appendix B for details，
To derive percentages for each racial subgroup，data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates．See appendix $B$ for details on how race／ethnicity is defined．
${ }^{\text {d }}$ Due to changes in the question wording in half of the questionnaire forms in 2001，the 2002 entry comprises half of the 2001 sample data double－weighted（the half with the new version of the question）and all of the 2002 sample data．

## TABLE 31

HALLUCINOGENS OTHER THAN LSD: Trends in Annual Prevalence of Use
by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{1975}$ | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | cont.) |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | 9.4 | 7.0 | 6.9 | 7.3 | 6.8 | 6.2 | 5.6 | 4.7 | 4.1 | 3.8 | 3.6 | 3.0 | 3.2 | 2.1 | 2.2 | 2.1 | 2.0 | 1.7 | 2.2 | 3.1 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 12.1 | 8.8 | 8.9 | 8.8 | 8.0 | 8.0 | 6.9 | 5.7 | 4.9 | 4.8 | 4.6 | 3.4 | 3.7 | 2.7 | 3.1 | 3.0 | 2.7 | 2.3 | 3.0 | 4.3 |  |
| Female | 7.5 | 5.0 | 4.9 | 5.5 | 5.3 | 4.2 | 4.0 | 3.6 | 3.1 | 2.7 | 2.5 | 2.5 | 2.6 | 1.4 | 1.1 | 1.1 | 1.3 | 1.2 | 1.3 | 1.9 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 8.3 | 8.6 | 8.1 | 7.6 | 6.7 | 6.0 | 5.1 | 4.8 | 4.5 | 4.1 | 3.3 | 3.5 | 2.5 | 2.7 | 2.1 | 2.4 | 2.2 | 2.5 | 3.2 |  |
| Complete 4 years | - | 5.2 | 4.9 | 5.7 | 5.3 | 5.1 | 5.0 | 4.1 | 3.1 | 3.0 | 2.9 | 2.5 | 2.8 | 1.8 | 1.9 | 1.9 | 1.9 | 1.5 | 2.0 | 2.9 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 12.0 | 7.8 | 8.2 | 10.3 | 10.2 | 10.0 | 9.0 | 8.1 | 6.1 | 8.4 | 7.1 | 5.1 | 4.8 | 2.6 | 2.5 | 2.9 | 3.5 | 2.5 | 2.6 | 5.1 |  |
| Midwest | 11.3 | 7.9 | 7.9 | 7.6 | 6.8 | 6.7 | 5.7 | 4.8 | 4.4 | 2.9 | 3.1 | 2.7 | 3.5 | 1.6 | 2.3 | 1.7 | 1.9 | 1.8 | 2.0 | 3.1 |  |
| South | 7.1 | 5.7 | 5.4 | 4.8 | 4.1 | 3.1 | 2.0 | 1.8 | 2.4 | 1.5 | 1.5 | 1.4 | 1.7 | 2.0 | 1.9 | 1.7 | 1.0 | 1.3 | 1.8 | 1.9 |  |
| West | 7.7 | 6.7 | 6.3 | 7.2 | 6.6 | 5.9 | 6.9 | 4.9 | 4.1 | 4.5 | 3.6 | 3.3 | 3.3 | 2.5 | 2.3 | 2.6 | 2.6 | 1.8 | 2.9 | 3.6 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 11.1 | 7.8 | 7.5 | 9.3 | 8.8 | 8.5 | 8.1 | 7.3 | 6.6 | 6.9 | 6.1 | 5.1 | 4.8 | 3.3 | 2.6 | 2.3 | 1.8 | 2.1 | 2.5 | 3.6 |  |
| Other MSA | 10.7 | 7.3 | 7.2 | 6.9 | 7.2 | 6.5 | 5.0 | 3.7 | 4.0 | 3.1 | 3.0 | 2.4 | 2.5 | 1.7 | 2.0 | 2.4 | 2.6 | 1.7 | 2.2 | 3.6 |  |
| Non-MSA | 6.8 | 6.1 | 6.1 | 6.1 | 4.7 | 4.1 | 4.4 | 4.0 | 2.4 | 2.4 | 2.4 | 2.1 | 2.9 | 1.6 | 2.1 | 1.5 | 1.2 | 1.4 | 2.0 | 1.8 |  |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 7.5 | 5.1 | 5.4 | 5.7 | 4.7 | 5.8 | 3.9 | 3.7 | 3.6 | 2.8 | 2.7 | 2.3 | 3.4 | 2.7 | 2.0 | 1.5 | 1.9 | 1.3 | 1.7 | 2.2 |  |
| 2.5-3.0 | 8.7 | 7.6 | 6.9 | 7.2 | 6.5 | 5.9 | 5.1 | 4.7 | 3.6 | 3.8 | 3.5 | 3.1 | 2.9 | 1.5 | 1.8 | 1.2 | 1.6 | 1.6 | 1.5 | 2.4 |  |
| 3.5-4.0 | 9.1 | 7.5 | 7.4 | 7.3 | 6.6 | 5.8 | 5.8 | 4.8 | 4.5 | 3.6 | 4.1 | 3.2 | 3.0 | 1.8 | 1.8 | 2.2 | 2.0 | 1.8 | 2.4 | 2.9 |  |
| 4.5-5.0 | 9.7 | 8.4 | 7.0 | 7.8 | 7.5 | 6.4 | 6.0 | 4.7 | 3.9 | 3.8 | 3.6 | 2.7 | 3.3 | 2.2 | 2.6 | 2.8 | 2.4 | 1.7 | 2.7 | 3.7 |  |
| 5.5-6.0 (High) | 7.4 | 7.2 | 7.8 | 7.9 | 9.2 | 7.2 | 7.0 | 6.7 | 4.6 | 5.3 | 2.6 | 2.8 | 3.5 | 3.1 | 3.3 | 3.6 | 2.4 | 2.1 | 3.0 | 4.4 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 7.6 | 7.6 | 7.5 | 7.0 | 6.3 | 5.6 | 4.7 | 4.3 | 4.0 | 3.5 | 3.4 | 3.0 | 2.4 | 2.4 | 2.4 | 2.2 | 2.2 | 3.0 |  |
| African American | - | - | 1.6 | 1.6 | 1.3 | 1.4 | 1.3 | 1.2 | 1.6 | 1.3 | 0.8 | 0.9 | 0.9 | 0.6 | 0.5 | 0.4 | 0.3 | 0.3 | 0.5 | 0.7 |  |
| Hispanic | - | - | 5.1 | 5.2 | 4.8 | 4.4 | 4.5 | 4.8 | 4.2 | 3.4 | 3.7 | 3.3 | 2.1 | 1.7 | 1.6 | 1.5 | 1.7 | 1.4 | 1.4 | 1.6 |  |

TABLE 31 (cont.)

## HALLUCINOGENS OTHER THAN LSD: Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | $2001^{\text {c }}$ | 2002 | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}{ }^{\text {e }}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 3.8 | 4.4 | 4.6 | 4.6 | 4.3 | $4.4 \ddagger$ | 5.9 | 5.4 | 5.4 | 5.6 | 5.0 | 4.6 | 4.8 | 5.0 | 4.2 | 4.8 | 4.3 | 4.0 | 3.7 | 3.0 | 2.9 | -0.1 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 5.3 | 5.7 | 5.9 | 6.0 | 5.4 | $5.8 \ddagger$ | 7.2 | 7.2 | 7.2 | 7.7 | 6.7 | 5.7 | 6.8 | 6.7 | 5.7 | 6.9 | 5.9 | 5.3 | 5.0 | 4.1 | 3.6 | -0.5 |
| Female | 2.1 | 2.8 | 3.2 | 3.0 | 3.1 | $2.9 \ddagger$ | 4.2 | 3.5 | 3.4 | 3.4 | 3.2 | 3.3 | 2.9 | 3.4 | 2.6 | 2.5 | 2.7 | 2.6 | 2.2 | 2.1 | 1.9 | -0.2 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 4.4 | 5.1 | 4.7 | 6.1 | 4.4 | $5.6 \ddagger$ | 7.3 | 7.9 | 7.3 | 6.9 | 6.8 | 6.5 | 7.2 | 6.3 | 5.0 | 7.1 | 6.7 | 4.7 | 4.9 | 4.1 | 4.9 | +0.8 |
| Complete 4 years | 3.4 | 4.0 | 4.4 | 3.9 | 4.0 | $3.8 \ddagger$ | 5.0 | 4.6 | 4.5 | 4.9 | 4.4 | 4.1 | 4.2 | 4.7 | 3.9 | 4.2 | 3.8 | 3.9 | 3.3 | 2.7 | 2.3 | -0.4 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 5.3 | 6.1 | 6.6 | 6.3 | 5.5 | $5.0 \ddagger$ | 6.9 | 7.5 | 7.3 | 6.7 | 4.9 | 6.4 | 6.0 | 7.2 | 3.8 | 5.0 | 4.7 | 4.0 | 3.3 | 3.4 | 2.8 | -0.5 |
| Midwest | 3.2 | 3.5 | 2.8 | 4.1 | 3.7 | $3.6 \ddagger$ | 6.9 | 5.0 | 4.7 | 4.6 | 6.3 | 4.7 | 4.6 | 3.9 | 5.3 | 4.5 | 4.2 | 4.1 | 4.1 | 3.2 | 2.7 | -0.5 |
| South | 3.1 | 3.6 | 4.0 | 3.5 | 3.3 | $3.3 \ddagger$ | 3.1 | 4.5 | 4.3 | 4.9 | 4.7 | 3.8 | 3.8 | 4.6 | 3.7 | 3.9 | 3.2 | 3.5 | 3.5 | 2.6 | 2.4 | -0.2 |
| West | 4.5 | 5.4 | 6.1 | 5.5 | 5.7 | 6.9才 | 8.0 | 5.6 | 6.0 | 6.9 | 4.0 | 4.2 | 5.7 | 5.4 | 4.0 | 6.2 | 5.8 | 4.7 | 3.7 | 3.4 | 4.1 | +0.7 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 4.9 | 5.2 | 4.0 | 4.4 | 4.5 | $5.2 \ddagger$ | 7.6 | 5.9 | 3.9 | 5.2 | 5.1 | 5.5 | 5.5 | 6.0 | 4.5 | 5.0 | 4.1 | 4.8 | 3.7 | 3.1 | 2.8 | -0.4 |
| Other MSA | 3.7 | 4.7 | 5.4 | 5.1 | 4.2 | $4.3 \ddagger$ | 5.4 | 5.8 | 6.5 | 6.6 | 5.4 | 4.2 | 4.7 | 4.9 | 4.3 | 5.1 | 4.7 | 4.0 | 4.1 | 3.3 | 3.3 | 0.0 |
| Non-MSA | 2.7 | 3.1 | 3.6 | 3.7 | 4.2 | $3.8 \ddagger$ | 4.8 | 4.3 | 5.1 | 4.1 | 4.0 | 3.9 | 4.1 | 4.4 | 3.6 | 3.6 | 3.6 | 2.8 | 2.6 | 2.3 | 2.2 | -0.2 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 2.7 | 3.5 | 2.7 | 3.7 | 2.2 | $3.8 \ddagger$ | 3.8 | 4.3 | 4.7 | 3.3 | 2.9 | 4.9 | 3.5 | 3.4 | 3.0 | 3.1 | 4.5 | 2.8 | 3.5 | 2.2 | 3.0 | +0.8 |
| 2.5-3.0 | 3.4 | 3.0 | 3.5 | 3.9 | 3.3 | $3.6 \ddagger$ | 5.4 | 5.4 | 4.3 | 4.9 | 5.1 | 4.5 | 4.3 | 3.9 | 4.1 | 4.1 | 3.7 | 4.3 | 3.5 | 3.2 | 2.9 | -0.3 |
| 3.5-4.0 | 3.6 | 4.0 | 4.8 | 4.6 | 5.1 | $4.2 \ddagger$ | 6.1 | 5.6 | 5.9 | 6.0 | 4.9 | 4.9 | 4.9 | 4.8 | 4.4 | 5.5 | 4.3 | 4.1 | 4.2 | 3.3 | 3.3 | 0.0 |
| 4.5-5.0 | 4.2 | 5.2 | 5.3 | 5.0 | 4.4 | $4.6 \ddagger$ | 5.5 | 5.8 | 6.0 | 6.3 | 5.3 | 4.3 | 4.9 | 6.0 | 4.7 | 4.7 | 4.0 | 4.3 | 3.0 | 3.1 | 2.4 | -0.7 |
| 5.5-6.0 (High) | 4.1 | 5.9 | 5.9 | 5.4 | 4.7 | $5.8 \ddagger$ | 6.6 | 5.1 | 4.8 | 5.6 | 5.3 | 4.5 | 5.8 | 6.1 | 4.1 | 4.8 | 5.1 | 3.4 | 4.3 | 2.8 | 3.0 | +0.2 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 3.8 | 4.4 | 5.2 | 5.6 | 5.2 | 4.8 | $4.7 \ddagger$ | $5.4{ }^{\text {d }}$ | 6.3 | 6.4 | 6.1 | 5.5 | 5.6 | 6.0 | 5.6 | 5.4 | 5.5 | 4.9 | 4.4 | 3.8 | 3.2 | -0.5 s |
| African American | 0.8 | 0.8 | 0.7 | 0.6 | 0.6 | 1.0 | 0.9\# | $0.9{ }^{\text {d }}$ | 0.9 | 0.9 | 1.2 | 1.4 | 1.2 | 1.0 | 0.9 | 1.0 | 1.3 | 1.4 | 1.3 | 1.4 | 1.3 | -0.1 |
| Hispanic | 2.6 | 3.5 | 3.1 | 2.7 | 3.0 | 4.6 | $4.8 \ddagger$ | $4.1^{\text {d }}$ | 4.1 | 3.7 | 3.6 | 3.5 | 3.4 | 3.0 | 2.8 | 3.0 | 2.8 | 2.6 | 3.0 | 2.7 | 2.7 | 0.0 |
|  <br>  appendix B for definition of variables in table. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  <br>  parallel manner. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{d}$ Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data. ${ }^{\mathrm{e}}$ In 2014 questions on use of hallucinogens other than LSD were dropped from one of six forms. Beginning in 2014 data are based on five of six forms; $N$ is five sixths of $N$ indcated. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 32
ECSTASY (MDMA): Trends in Annual Prevalence of Use by Subgroups in Grade 8

|  | Percentage who used in last 12 mon |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & 2014- \\ & 2015 \\ & \text { change } \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1991 | 1992 | 1993 | 1994 | $\underline{1995}$ | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | $\underline{2006}$ | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |  |
| Approximate weighted $N=$ | - | - | - | - | - | 17,800 | 18,600 | 18,100 | 16,700 | 16,700 | 16,200 | 15,100 | 16,500 | 17,000 | 16,800 | 16,500 | 16,100 | 15,700 | 15,000 | 15,300 | 16,000 | 15,100 | 14,600 | 14,600 | 14,400 |  |
| Total, original wording | - | - | - | - | - | 2.3 | 2.3 | 1.8 | 1.7 | 3.1 | 3.5 | 2.9 | 2.1 | 1.7 | 1.7 | 1.4 | 1.5 | 1.7 | 1.3 | 2.4 | 1.7 | 1.1 | 1.1 | 0.9 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.5 | 1.4 | -0.1 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male, original wording | - | - | - | - | - | 2.2 | 2.7 | 2.3 | 1.7 | 3.1 | 3.4 | 3.1 | 1.8 | 1.7 | 1.6 | 1.0 | 1.3 | 1.4 | 1.3 | 2.5 | 2.0 | 0.9 | 1.1 | 1.0 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.6 | 1.2 | -0.3 |
| Female, original wording | - | - | - | - | - | 2.3 | 2.0 | 1.3 | 1.7 | 3.0 | 3.7 | 2.6 | 2.2 | 1.8 | 1.7 | 1.7 | 1.7 | 2.0 | 1.2 | 2.4 | 1.4 | 1.2 | 1.1 | 0.8 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.5 | 1.5 | 0.0 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years, original | - | - | - | - | - | 4.8 | 6.1 | 4.8 | 5.3 | 6.5 | 9.2 | 9.1 | 6.9 | 5.4 | 5.9 | 3.8 | 5.4 | 6.9 | 4.9 | 9.9 | 4.7 | 3.0 | 3.1 | 3.0 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.1 | 3.3 | -0.8 |
| Complete 4 years, original | - | - | - | - | - | 1.9 | 2.0 | 1.5 | 1.2 | 2.7 | 2.9 | 2.3 | 1.5 | 1.3 | 1.3 | 1.2 | 1.1 | 1.3 | 1.0 | 1.9 | 1.5 | 0.9 | 1.0 | 0.7 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.3 | 1.2 | -0.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast, original wording | - | - | - | - | - | 2.1 | 1.5 | 1.6 | 1.8 | 2.4 | 3.8 | 2.0 | 1.8 | 1.8 | 1.1 | 0.8 | 0.5 | 1.2 | 1.0 | 1.2 | 0.9 | 1.2 | 0.6 | 0.6 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.4 | 1.0 | -0.4 |
| Midwest, original wording | - | - | - | - | - | 1.7 | 1.7 | 1.7 | 1.4 | 3.5 | 2.9 | 2.3 | 2.1 | 1.4 | 1.7 | 1.6 | 1.2 | 1.4 | 1.0 | 2.4 | 0.9 | 0.3 | 1.2 | 0.7 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.2 | 1.3 | +0.2 |
| South, original wording | - | - | - | - | - | 2.8 | 2.3 | 2.7 | 1.8 | 3.2 | 3.7 | 3.7 | 2.5 | 1.9 | 2.1 | 2.0 | 1.8 | 1.8 | 1.1 | 2.5 | 1.5 | 1.4 | 1.3 | 1.0 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.7 | 1.7 | 0.0 |
| West, original wording | - | - | - | - | - | 2.3 | 3.8 | 0.8 | 1.7 | 2.9 | 3.6 | 3.0 | 1.6 | 1.7 | 1.5 | 0.7 | 1.9 | 2.2 | 2.2 | 3.2 | 3.7 | 1.3 | 1.2 | 1.1 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.5 | 1.1 | -0.4 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA, original wording | - | - | - | - | - | 2.9 | 1.8 | 1.8 | 1.6 | 3.0 | 3.1 | 2.6 | 1.8 | 2.1 | 1.6 | 1.1 | 1.4 | 1.9 | 1.3 | 2.5 | 1.9 | 1.1 | 1.1 | 1.1 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.2 | 1.7 | +0.5 |
| Other MSA, original wording | - | - | - | - | - | 2.5 | 3.1 | 2.1 | 1.8 | 3.4 | 4.3 | 3.3 | 1.9 | 1.9 | 1.6 | 1.6 | 1.5 | 1.7 | 1.4 | 2.6 | 1.9 | 1.3 | 1.3 | 0.8 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.8 | 1.4 | -0.4 |
| Non-MSA, original wording | - | - | - | - | - | 1.2 | 1.5 | 1.5 | 1.6 | 2.5 | 2.5 | 2.5 | 2.7 | 1.0 | 1.9 | 1.6 | 1.8 | 1.3 | 1.0 | 2.0 | 1.2 | 0.6 | 0.8 | 0.9 | - | - |
| Revised, includes "Molly" Parental Education: ${ }^{\text {a }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.2 | 0.9 | -0.3 |
| 1.0-2.0 (Low), original wording | - | - | - | - | - | 2.9 | 2.2 | 2.1 | 2.5 | 4.2 | 5.8 | 6.0 | 3.6 | 3.6 | 2.5 | 2.8 | 3.1 | 4.1 | 1.8 | 5.0 | 2.2 | 2.1 | 2.3 | 1.4 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.4 | 2.5 | +0.1 |
| 2.5-3.0, original wording | - | - | - | - | - | 2.2 | 2.4 | 1.4 | 2.0 | 3.9 | 4.3 | 3.6 | 3.1 | 2.2 | 3.0 | 1.5 | 1.9 | 1.7 | 1.6 | 3.8 | 2.2 | 1.7 | 1.2 | 1.0 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.1 | 1.5 | -0.6 |
| 3.5-4.0, original wording | - | - | - | - | - | 2.2 | 2.9 | 2.6 | 1.5 | 2.8 | 2.4 | 2.9 | 2.1 | 1.7 | 1.7 | 1.2 | 1.1 | 2.1 | 1.4 | 2.2 | 2.1 | 1.0 | 1.0 | 0.8 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.3 | 1.2 | -0.2 |
| 4.5-5.0, original wording | - | - | - | - | - | 2.6 | 2.0 | 1.4 | 1.2 | 3.1 | 3.3 | 2.4 | 1.4 | 1.2 | 1.1 | 1.3 | 1.4 | 1.0 | 1.1 | 1.9 | 1.5 | 0.6 | 1.1 | 0.8 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.0 | 1.0 | +0.1 |
| 5.5-6.0 (High), original wording | - | - | - | - | - | 2.4 | 2.7 | 2.5 | 2.3 | 2.0 | 3.0 | 1.2 | 2.0 | 1.7 | 0.9 | 1.2 | 0.8 | 0.8 | 1.1 | 1.1 | 1.1 | 0.6 | 0.6 | 1.0 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.3 | 0.8 | -0.5 |

TABLE 32 (cont.)
ECSTASY (MDMA): Trends in Annual Prevalence of Use by Subgroups in Grade 8

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | $\underline{2005}$ | $\underline{2006}$ | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | change |
| Approximate weighted $N=$ <br> Race/Ethnicity (2-year average): |  | - | - | - | - | 17,800 | 18,600 | 18,100 | 16,700 | 16,700 | 16,200 | 15,100 | 16,500 | 17,000 | 16,800 | 16,500 | 16,100 | 15,700 | 15,000 | 15,300 | 16,000 | 15,100 | 14,600 | 14,600 | 14,400 |  |
| White, original wording | - |  | - |  |  | - | 2.7 | 2.4 | 1.9 | 2.5 | 3.2 | 2.9 | 2.4 | 1.9 | 1.5 | 1.5 | 1.4 | 1.6 | 1.5 | 1.9 | 1.8 | 1.0 | 0.9 | 1.0 | - | - |
| Revised, includes "Molly" | - | - | - |  |  | - | - | - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.3 | - |
| African American, original | - | - | - | - | - | - | 0.3 | 0.4 | 0.5 | 0.6 | 1.1 | 1.1 | 1.0 | 1.6 | 1.8 | 1.4 | 1.2 | 0.7 | 0.4 | 0.7 | 1.1 | 1.0 | 0.9 | 1.0 | - | - |
| Revised, includes "Molly" | - | - | - | - |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.3 |  |
| Hispanic, original wording | - | - | - | - | - | - | 2.5 | 1.7 | 1.9 | 3.3 | 5.3 | 5.9 | 4.0 | 2.3 | 2.3 | 1.8 | 1.8 | 2.1 | 2.1 | 2.6 | 3.1 | 2.4 | 1.8 | 1.5 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.3 | - |
| Source. The Monitoring the Future s <br> Notes. Level of significance of diffe rounding. See Table S1 for in Table S1. Data based on for only the questionnaires indicated in 2014 and five s | dy, the nce betv numbe o of fou ing the of ths of $N$ | niversity en the of subg forms be ginal qu ndicated | Michig o most up case inning in stion wo in 2015. | cent cla See a 2002; ing; $N$ | ses: $\mathrm{s}=$ endix B is one h one half | .05 , ss = <br> for definit <br> alf of $N$ in <br> of $N$ indi | .01 , sss $=$ <br> ion of vari <br> dicated in <br> cated. The | .001. ' iables in Table S 2014 and | - indicate table. Dat . In 2014 nd 2015 d | s data not a based on a revised ata reporte | available n one of question ed here for | . Any ap wo forms on use o or the "Re | parent inc in 1996; f ecstasy evised wo | onsistency $N$ is one (MDMA) ding" wh | y betwee half of $N$ ncluding ch includ | n the chan indicated in "Molly" wa s "Molly" | nge estim in Table s added are for o | mate and t <br> s1. Data <br> to one for <br> nly the qu | he preval based on $m$. The 2 estionnai | ence estin one of fou 13 and 2 es using | mates for forms in 014 "Orig the revise | the two m 1997-20 <br> inal word d wordin | ost recent 001; $N$ is o ing" data r $\mathrm{g} ; N$ is two | years is one third reported sixths of | due to of $N$ indic here are $N$ |  |
| ${ }^{\text {a }}$ Parental education is an average sco ${ }^{\mathrm{b}}$ To derive percentages for each racia data for the 2014 "Original wording" wording" data. | of moth ubgroup based | r's educ data for the 2013 | tion and he speci and 20 | ather's <br> d year <br> 4 unch | ducation nd the $p$ ged form | See app evious ye s only. T | endix B for ear have b wo year ra | details. <br> been com <br> ce data fo | bined to or the 201 | ncrease sub 5 "Revis | ubgroup <br> d wording | sample siz <br> " which i | zes and th includes " | us provid olly" are | e more s <br> based on | table estim the 2014 | mates. <br> "Revise | e append <br> wording | dix B for data two | tails on and one | how race/ half times | ethnicity is weighted | is defined. <br> d and the |  | race <br> vised |  |

## TABLE 33

## ECSTASY (MDMA): Trends in Annual Prevalence of Use by Subgroups in Grade 10

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | $\underline{2001}$ | 2002 | $\underline{2003}$ | 2004 | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | 2008 | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | change |
| Approximate weighted $N=$ | - | - | - | - | - | 15,600 | 15,500 | 15,000 | 13,600 | 14,300 | 14,000 | 14,300 | 15,800 | 16,400 | 16,200 | 16,200 | 16,100 | 15,100 | 15,900 | 15,200 | 14,900 | 15,000 | 12,900 | 13,000 | 15,600 |  |
| Total, original wording | - | - | - | - | - | 4.6 | 3.9 | 3.3 | 4.4 | 5.4 | 6.2 | 4.9 | 3.0 | 2.4 | 2.6 | 2.8 | 3.5 | 2.9 | 3.7 | 4.7 | 4.5 | 3.0 | 3.6 | 2.3 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.8 | 2.4 | -1.4 ss |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male, original wording | - | - | - | - | - | 4.9 | 4.7 | 3.5 | 4.7 | 5.7 | 7.6 | 4.3 | 2.8 | 2.4 | 2.6 | 3.3 | 3.7 | 3.4 | 3.7 | 5.4 | 4.9 | 3.3 | 4.4 | 2.3 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.9 | 2.6 | -1.2 |
| Female, original wording | - | - | - | - | - | 4.2 | 3.1 | 2.9 | 4.2 | 4.8 | 4.9 | 5.2 | 3.2 | 2.4 | 2.5 | 2.2 | 3.1 | 2.4 | 3.5 | 4.0 | 3.8 | 2.6 | 2.9 | 2.4 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.6 | 2.1 | -1.5 s |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years, original | - | - | - | - | - | 7.7 | 7.5 | 5.4 | 8.5 | 10.7 | 13.6 | 10.1 | 5.7 | 5.4 | 5.6 | 6.9 | 7.4 | 7.5 | 8.6 | 9.2 | 10.6 | 8.3 | 7.0 | 5.1 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.7 | 5.9 | -2.9 |
| Complete 4 years, original wordin | - | - | - | - | - | 4.0 | 3.3 | 2.9 | 3.7 | 4.5 | 5.1 | 4.1 | 2.6 | 2.0 | 2.2 | 2.2 | 3.0 | 2.3 | 3.1 | 4.2 | 3.8 | 2.4 | 3.2 | 2.1 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.2 | 2.0 | -1.2 s |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast, original wording | - | - | - | - | - | 4.4 | 3.0 | 3.8 | 7.0 | 6.4 | 8.2 | 4.4 | 2.7 | 2.6 | 2.2 | 2.2 | 2.9 | 2.0 | 2.0 | 3.7 | 3.2 | 1.9 | 3.3 | 2.0 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.4 | 1.9 | -1.4 |
| Midwest, original wording | - | - | - | - | - | 3.6 | 3.2 | 2.2 | 2.3 | 5.2 | 4.8 | 4.6 | 2.5 | 1.9 | 3.0 | 2.8 | 3.5 | 2.0 | 2.8 | 3.1 | 2.1 | 2.4 | 3.1 | 1.7 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.1 | 1.9 | -1.3 s |
| South, original wording | - | - | - | - | - | 5.6 | 5.0 | 4.1 | 4.1 | 5.2 | 5.9 | 5.1 | 3.8 | 2.6 | 2.6 | 3.0 | 3.6 | 2.8 | 3.2 | 4.5 | 3.9 | 2.8 | 3.9 | 2.9 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.8 | 3.1 | -1.7 |
| West, original wording | - | - | - | - | - | 4.1 | 3.7 | 2.7 | 4.4 | 5.0 | 6.8 | 5.2 | 3.0 | 2.7 | 2.5 | 3.0 | 3.8 | 4.5 | 6.8 | 7.8 | 9.2 | 4.8 | 3.8 | 2.4 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.3 | 2.3 | -1.1 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA, original wording | - | - | - | - | - | 5.6 | 4.0 | 2.5 | 5.2 | 7.0 | 7.3 | 5.1 | 2.4 | 1.8 | 3.0 | 2.9 | 3.0 | 3.8 | 3.3 | 4.8 | 4.8 | 3.8 | 3.1 | 1.7 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.4 | 2.6 | -0.8 |
| Other MSA, original wording | - | - | - | - | - | 4.6 | 3.6 | 4.1 | 4.7 | 5.3 | 5.5 | 5.2 | 3.1 | 3.1 | 2.5 | 2.7 | 3.7 | 2.7 | 4.0 | 5.3 | 5.1 | 2.9 | 4.6 | 3.0 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.4 | 2.1 | -2.2 ss |
| Non-MSA, original wording | - | - | - | - | - | 3.3 | 4.2 | 2.7 | 2.8 | 3.7 | 6.3 | 3.7 | 3.8 | 2.0 | 2.3 | 2.8 | 3.8 | 2.0 | 3.5 | 3.3 | 3.0 | 1.9 | 1.7 | 1.8 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.1 | 2.7 | -0.4 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low), original wording | - | - | - | - | - | 4.8 | 3.0 | 1.9 | 3.7 | 7.0 | 7.2 | 5.8 | 2.4 | 3.3 | 4.4 | 3.8 | 4.3 | 4.8 | 6.0 | 8.5 | 9.5 | 5.6 | 3.5 | 2.4 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.5 | 3.7 | +1.2 |
| 2.5-3.0, original wording | - | - | - | - | - | 4.7 | 3.9 | 3.1 | 4.4 | 4.9 | 6.5 | 5.5 | 3.8 | 3.3 | 2.8 | 2.9 | 4.7 | 3.5 | 4.8 | 5.6 | 5.0 | 3.0 | 5.0 | 2.9 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.6 | 2.3 | -2.3 s |
| $3.5-4.0$, original wording | - | - | - | - | - | 4.7 | 5.2 | 4.3 | 4.0 | 6.3 | 7.0 | 5.5 | 3.5 | 2.1 | 3.3 | 2.5 | 3.2 | 3.2 | 3.8 | 4.8 | 4.4 | 2.5 | 3.5 | 2.3 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.1 | 3.2 | -1.9 |
| 4.5-5.0, original wording | - | - | - | - | - | 4.2 | 2.5 | 2.9 | 4.3 | 5.0 | 5.3 | 3.9 | 2.7 | 2.3 | 2.2 | 2.7 | 3.2 | 2.0 | 2.5 | 3.6 | 2.5 | 2.9 | 3.1 | 2.1 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.8 | 1.9 | -1.9 ss |
| 5.5-6.0 (High), original wording | - | - | - | - | - | 5.3 | 4.0 | 4.4 | 5.6 | 4.8 | 5.8 | 4.6 | 2.3 | 1.4 | 1.4 | 3.3 | 2.8 | 2.1 | 3.4 | 3.6 | 3.8 | 2.5 | 3.0 | 2.8 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.5 | 1.7 | -0.8 |

TABLE 33 (cont.)
ECSTASY (MDMA): Trends in Annual Prevalence of Use by Subgroups in Grade 10

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{1991}$ | 1992 | $\underline{1993}$ | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | 2001 | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | 2008 | $\underline{2009}$ | $\underline{2010}$ | 2011 | $\underline{2012}$ | 2013 | 2014 | $\underline{2015}$ | change |
| Approximate weighted $N=$ | - | - | - | - | - | 15,600 | 15,500 | 15,000 | 13,600 | 14,300 | 14,000 | 14,300 | 15,800 | 16,400 | 16,200 | 16,200 | 16,100 | 15,100 | 15,900 | 15,200 | 14,900 | 15,000 | 12,900 | 13,000 | 15,600 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White, original wording | - | - | - | - | - | - | 4.8 | 4.0 | 4.4 | 5.3 | 6.0 | 6.2 | 4.6 | 3.1 | 2.7 | 2.9 | 3.5 | 3.4 | 2.9 | 3.7 | 4.0 | 3.2 | 2.9 | 3.2 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.4 | - |
| African American, original wordin! | - | - | - | - | - | - | 0.8 | 1.2 | 1.3 | 1.5 | 2.2 | 1.8 | 1.5 | 0.9 | 0.6 | 1.0 | 1.3 | 1.3 | 1.5 | 1.9 | 2.2 | 1.8 | 1.3 | 1.3 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.9 | - |
| Hispanic, original wording | - | - | - | - | - | - | 3.6 | 2.3 | 2.4 | 4.6 | 5.4 | 4.3 | 3.4 | 3.0 | 4.3 | 3.9 | 2.7 | 3.8 | 5.6 | 7.3 | 8.7 | 7.3 | 5.1 | 3.9 | - | - |
| Revised, includes "Molly" | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.1 | - |

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

 Table S2. Data based on two of four forms beginning in 2002; $N$ is one half of $N$ indicated in Table S2. In 2014 a revised question on use of ecstasy (MDMA) including "Molly" was added to one form. The 2013 and 2014 "Original wording" data reported here are for only the questionnaires using the original question wording; $N$ is one half of $N$ indicated. The 2014 and 2015 data reported here for the "Revised wording" which includes "Molly" are for only the questionnaires using the revised wording; $N$ is two sixths of $N$ indicated in 2014 and five sixths of $N$ indicated in 2015


 wording" data.

TABLE 34
ECSTASY (MDMA): Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{r} 1975- \\ \underline{1995} \end{array}$ | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | 2008 | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | - | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total, original wording | - | 4.6 | 4.0 | 3.6 | 5.6 | 8.2 | 9.2 | 7.4 | 4.5 | 4.0 | 3.0 | 4.1 | 4.5 | 4.3 | 4.3 | 4.5 | 5.3 | 3.8 | 4.0 | 3.6 | - | - |
| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.0 | 3.6 | -1.5 s |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male, original wording | - | 4.8 | 5.6 | 4.8 | 5.6 | 8.1 | 10.5 | 8.2 | 4.8 | 4.7 | 3.3 | 4.3 | 5.0 | 5.5 | 5.5 | 5.3 | 6.3 | 4.1 | 5.0 | 5.0 | - | - |
| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.6 | 4.0 | -2.7 s |
| Female, original wording | - | 4.2 | 2.5 | 2.7 | 5.6 | 8.2 | 8.0 | 6.4 | 4.0 | 3.2 | 2.7 | 4.0 | 4.1 | 3.3 | 3.2 | 3.6 | 4.6 | 3.4 | 2.9 | 2.7 | - | - |
| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.1 | 3.1 | 0.0 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years, original | - | 6.9 | 3.8 | 4.7 | 4.2 | 8.5 | 9.8 | 8.9 | 6.5 | 5.3 | 3.7 | 6.0 | 6.5 | 7.2 | 6.1 | 4.7 | 8.5 | 4.8 | 4.3 | 3.8 | - | - |
| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.6 | 6.1 | +0.6 |
| Complete 4 years, original wording | - | 4.0 | 3.9 | 3.3 | 6.2 | 8.0 | 8.7 | 7.1 | 3.9 | 3.6 | 2.8 | 3.7 | 3.9 | 3.7 | 3.9 | 4.4 | 4.7 | 3.4 | 4.0 | 3.7 | - | - |
| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.6 | 3.1 | -1.5 s |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast, original wording | - | 6.3 | 6.9 | 3.7 | 9.4 | 8.8 | 10.1 | 10.3 | 5.1 | 3.5 | 3.0 | 2.9 | 4.3 | 2.9 | 3.8 | 4.5 | 5.9 | 3.7 | 4.6 | 4.2 | - | - |
| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.0 | 3.9 | -2.0 |
| Midwest, original wording | - | 3.7 | 1.3 | 2.7 | 3.3 | 5.7 | 11.8 | 5.0 | 4.7 | 3.0 | 3.0 | 3.4 | 4.4 | 2.8 | 4.5 | 3.5 | 3.7 | 2.4 | 3.9 | 3.1 | - | - |
| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.8 | 2.3 | -0.5 |
| South, original wording | - | 4.6 | 4.3 | 4.0 | 5.7 | 5.9 | 5.7 | 7.9 | 4.2 | 5.1 | 3.4 | 4.9 | 4.6 | 4.6 | 3.8 | 3.6 | 4.4 | 3.2 | 3.7 | 3.9 | - | - |
| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.4 | 2.7 | -2.7 ss |
| West, original wording | - | 3.9 | 4.1 | 4.0 | 5.0 | 14.4 | 10.3 | 6.8 | 4.2 | 3.8 | 2.5 | 4.6 | 4.7 | 6.6 | 5.2 | 6.9 | 7.9 | 5.9 | 4.0 | 3.2 | - | - |
| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.6 | 5.9 | +0.4 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA, original wording | - | 3.6 | 3.6 | 3.2 | 6.1 | 8.7 | 10.9 | 8.4 | 4.3 | 4.0 | 3.5 | 6.1 | 5.8 | 4.7 | 4.1 | 5.2 | 5.8 | 5.1 | 5.1 | 3.8 | - | - |
| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.2 | 3.5 | -0.7 |
| Other MSA, original wording | - | 5.1 | 4.6 | 4.3 | 6.1 | 8.4 | 9.7 | 8.1 | 5.0 | 4.5 | 3.2 | 3.1 | 4.0 | 4.8 | 4.7 | 4.9 | 5.7 | 3.7 | 3.9 | 4.4 | - | - |
| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.8 | 3.6 | -3.2 sss |
| Non-MSA, original wording | - | 4.5 | 3.4 | 2.7 | 4.2 | 7.4 | 6.4 | 4.6 | 4.0 | 2.8 | 2.1 | 3.1 | 3.7 | 2.8 | 3.5 | 2.2 | 3.7 | 1.8 | 2.6 | 1.6 | - | - |
| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.8 | 3.9 | +2.1 ss |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low), original wording | - | 5.5 | 3.5 | 4.2 | 6.8 | 7.3 | 3.8 | 4.8 | 4.1 | 4.6 | 3.0 | 3.8 | 4.7 | 4.0 | 6.2 | 3.8 | 6.3 | 3.7 | 5.3 | 2.3 | - | - |
| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.4 | 3.4 | -2.9 |
| 2.5-3.0, original wording | - | 5.0 | 3.1 | 3.2 | 5.1 | 7.7 | 10.3 | 8.0 | 3.8 | 3.7 | 3.9 | 3.6 | 4.9 | 4.0 | 2.5 | 4.9 | 5.5 | 3.5 | 3.8 | 3.2 | - | - |
| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.1 | 3.9 | -0.2 |
| $3.5-4.0$, original wording | - | 4.9 | 3.8 | 3.2 | 5.7 | 6.2 | 8.4 | 7.5 | 5.7 | 4.6 | 2.8 | 3.9 | 4.4 | 5.3 | 4.6 | 4.7 | 5.0 | 4.1 | 4.1 | 3.9 | - | - |
| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.2 | 4.3 | +0.1 |
| $4.5-5.0$, original wording | - | 4.0 | 2.9 | 4.3 | 6.2 | 8.3 | 11.2 | 7.3 | 5.0 | 3.8 | 3.2 | 5.1 | 4.1 | 3.6 | 4.9 | 4.2 | 5.7 | 3.9 | 3.2 | 4.7 | - | - |
| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.9 | 3.1 | -1.8 |
| 5.5-6.0 (High), original wording | - | 4.1 | 8.7 | 3.5 | 4.7 | 10.6 | 8.1 | 7.6 | 3.3 | 3.1 | 2.0 | 3.6 | 4.6 | 4.1 | 4.0 | 4.3 | 4.4 | 3.6 | 5.9 | 3.3 | - | - |
| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.7 | 3.7 | -3.0 |

## TABLE 34 (cont.)

## ECSTASY (MDMA): Trends in Annual Prevalence of Use by Subgroups in Grade 12

## Percentage who used in last 12 months

2014-
1975- 2015 $\underline{19} \quad \underline{1995} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015} \quad \underline{\text { change }}$

Race/Ethnicity (2-year average): ${ }^{\text {b }}$ White, original wording



| Revised, includes "Molly' | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.3 | - |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| original wording | - | - | 2.8 | 2.7 | 6.0 | 10.6 | 10.2 | 7.0 | 5.3 | 3.7 | 3.0 | 3.0 | 3.3 | 3.2 | 3.9 | 4.6 | 4.4 | 4.5 | 4.5 | 3.9 | - | - |



Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $\mathrm{s}=.05, \mathrm{ss}=.01, \mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S 3 for the number of subgroup cases. See appendix $B$ for definition of variables in table. Data based on one of six forms in $1996-2001 ; N$ is one sixth of $N$ indicated in Table S 3 . Data based on two of six forms beginning in 2002; $N$ is two sixths of $N$ indicated in Table S3. Beginning in 2014 a revised question on use of ecstasy (MDMA) including "Molly" was added to one form. The 2013 and 2014 "Original wording" data eported here are for only the questionnaires using the original question wording; $N$ is one third of $N$ indicated. The 2014 and 2015 data reported here for the "Revised wording" which includes "Molly" are for only the questionnaires using the revised wording; N is one sixth of N indicated in 2014 and three sixths of N indicated in 2015.

## Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.


${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined. Two year race data for the 2014 "Original wording" are based on the 2013 and 2014 unchanged forms only. Two year race data for the 2015 "Revised wording" which includes "Molly" are based on the 2014 "Revised wording" data triple weighted and the 2015 "Revised wording" data

TABLE 35

## SALVIA: Trends in Annual Prevalence of Use by Subgroups in Grades 8, 10, and 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 8th Gr | rade |  |  |  |  |  |  | 10th G | rade |  |  |  |  |  |  | 12th G | Grade |  |  |  |
|  | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ | $\underline{2009}$ | $\underline{2010}$ | 2011 | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \\ \hline \end{gathered}$ |
| Approximate weighted $N=$ | 15,000 | 15,300 | 16,000 | 15,100 | 14,600 | 14,600 | 14,400 |  | 15,900 | 15,200 | 14,900 | 15,000 | 12,900 | 13,000 | 15,600 |  | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | - | 1.7 | 1.6 | 1.4 | 1.2 | 0.6 | 0.7 | +0.1 | - | 3.7 | 3.9 | 2.5 | 2.3 | 1.8 | 1.2 | -0.7 | 5.7 | 5.5 | 5.9 | 4.4 | 3.4 | 1.8 | 1.9 | 0.0 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 2.6 | 2.0 | 1.4 | 1.6 | 0.6 | 0.7 | +0.1 | - | 5.4 | 5.0 | 3.7 | 3.4 | 2.2 | 1.8 | -0.4 | 9.3 | 8.5 | 8.6 | 5.6 | 5.0 | 2.3 | 2.4 | +0.1 |
| Female | - | 1.0 | 1.1 | 1.1 | 0.9 | 0.6 | 0.6 | 0.0 | - | 1.9 | 2.7 | 1.4 | 1.3 | 1.4 | 0.5 | -0.9 s | 2.3 | 2.5 | 3.3 | 3.0 | 1.8 | 1.0 | 1.0 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 4.4 | 5.4 | 5.2 | 4.2 | 2.7 | 1.7 | -1.0 | - | 8.1 | 12.1 | 8.2 | 5.4 | 5.7 | 3.8 | -1.9 | 7.4 | 9.2 | 11.4 | 5.9 | 6.7 | 3.4 | 3.0 | -0.4 |
| Complete 4 years | - | 1.4 | 1.3 | 1.1 | 1.0 | 0.4 | 0.6 | +0.1 | - | 3.2 | 2.9 | 1.9 | 2.0 | 1.3 | 0.9 | -0.5 | 5.2 | 4.7 | 4.8 | 3.9 | 2.5 | 1.4 | 1.4 | 0.0 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 1.9 | 1.8 | 0.5 | 0.8 | 0.8 | 0.5 | -0.2 | - | 2.8 | 5.0 | 3.6 | 2.6 | 1.4 | 1.5 | +0.1 | 7.1 | 6.2 | 6.0 | 5.3 | 3.9 | 2.9 | 1.3 | -1.7 |
| Midwest | - | 1.6 | 1.1 | 0.4 | 0.3 | 0.2 | 0.5 | +0.3 | - | 3.1 | 3.4 | 1.3 | 0.9 | 1.3 | 0.7 | -0.6 | 5.0 | 5.0 | 3.1 | 2.6 | 1.3 | 1.5 | 1.3 | -0.1 |
| South | - | 1.4 | 1.5 | 2.4 | 1.1 | 0.8 | 0.8 | 0.0 | - | 4.0 | 3.4 | 2.0 | 1.8 | 1.9 | 1.0 | -0.9 s | 4.8 | 5.3 | 5.2 | 3.8 | 3.6 | 1.7 | 1.4 | -0.3 |
| West | - | 2.4 | 2.1 | 1.2 | 2.6 | 0.5 | 0.7 | +0.2 | - | 4.7 | 4.2 | 3.8 | 4.1 | 2.6 | 1.7 | -0.9 | 6.9 | 6.1 | 9.9 | 6.5 | 5.2 | 1.5 | 3.5 | +2.0 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 2.0 | 1.3 | 1.9 | 1.4 | 0.5 | 0.7 | +0.2 | - | 4.3 | 3.8 | 2.3 | 2.5 | 2.1 | 1.1 | -0.9 | 7.8 | 6.7 | 7.0 | 5.0 | 2.8 | 2.3 | 2.0 | -0.4 |
| Other MSA | - | 1.6 | 2.1 | 1.3 | 1.1 | 0.8 | 0.7 | 0.0 | - | 3.3 | 3.8 | 2.6 | 2.1 | 1.4 | 1.2 | -0.3 | 5.0 | 5.5 | 6.1 | 4.7 | 4.2 | 1.9 | 1.4 | -0.5 |
| Non-MSA | - | 1.9 | 0.9 | 0.6 | 1.2 | 0.3 | 0.4 | +0.1 | - | 3.7 | 4.1 | 2.7 | 2.6 | 2.4 | 1.3 | -1.1 | 4.6 | 4.1 | 4.1 | 2.9 | 2.5 | 1.0 | 2.7 | +1.7 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 2.3 | 4.7 | 1.4 | 2.3 | 1.0 | 1.3 | +0.3 | - | 5.8 | 2.6 | 3.6 | 3.3 | 1.6 | 1.6 | 0.0 | 5.8 | 5.4 | 6.3 | 8.3 | 7.1 | 1.9 | 2.5 | +0.5 |
| 2.5-3.0 | - | 1.7 | 2.5 | 1.3 | 1.1 | 0.4 | 0.5 | +0.1 | - | 4.4 | 5.1 | 3.3 | 3.0 | 1.8 | 1.8 | 0.0 | 4.6 | 4.4 | 5.3 | 3.7 | 4.1 | 1.9 | 1.6 | -0.3 |
| 3.5-4.0 | - | 0.9 | 1.7 | 1.0 | 1.4 | 0.3 | 0.4 | +0.1 | - | 3.6 | 4.6 | 2.2 | 2.1 | 2.3 | 1.1 | -1.2 | 6.2 | 6.0 | 6.6 | 3.5 | 3.1 | 1.6 | 2.1 | +0.5 |
| 4.5-5.0 | - | 2.1 | 1.0 | 1.5 | 1.4 | 0.8 | 0.7 | -0.1 | - | 2.7 | 3.3 | 2.0 | 2.3 | 1.6 | 1.0 | -0.6 | 5.5 | 5.6 | 5.4 | 4.6 | 2.6 | 1.7 | 1.0 | -0.6 |
| 5.5-6.0 (High) | - | 1.5 | 0.2 | 1.4 | 0.5 | 0.7 | 0.2 | -0.5 | - | 4.0 | 2.8 | 2.5 | 1.2 | 1.3 | 0.6 | -0.7 | 7.0 | 6.7 | 6.0 | 4.2 | 2.3 | 1.9 | 1.7 | -0.2 |
| Race/Ethnicity (2-year average): b |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 1.5 | 1.2 | 0.9 | 0.6 | 0.4 | -0.2 | - | - | 3.9 | 3.4 | 2.3 | 2.1 | 1.6 | -0.5 | - | 6.3 | 6.2 | 5.3 | 3.8 | 2.5 | 1.7 | -0.8 s |
| African American | - | - | 1.4 | 1.5 | 1.4 | 0.8 | 0.6 | -0.2 | - | - | 1.6 | 0.7 | 1.3 | 1.3 | 1.7 | +0.3 | - | 2.5 | 2.5 | 2.8 | 2.6 | 1.7 | 1.6 | -0.1 |
| Hispanic | - | - | 2.1 | 2.4 | 2.2 | 1.6 | 0.9 | -0.7 s | - | - | 4.7 | 4.0 | 2.8 | 1.6 | 0.8 | -0.8 | - | 4.4 | 4.6 | 5.6 | 4.8 | 2.0 | 1.0 | -1.0 |

Source. The Monitoring the Future study, the University of Michigan.
 on two of six forms; $N$ is two sixths of $N$ indicated in Table S3.
Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 36
COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 8

Percentage who used in last 12 months
2014-



| Total | 1.1 | 1.5 | 1.7 | 2.1 | 2.6 | 3.0 | 2.8 | 3.1 | 2.7 | 2.6 | 2.5 | 2.3 | 2.2 | 2.0 | 2.2 | 2.0 | 2.0 | 1.8 | 1.6 | 1.6 | 1.4 | 1.2 | 1.0 | 1.0 | 0.9 | -0.1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1.4 | 1.5 | 1.9 | 2.1 | 2.5 | 2.7 | 3.1 | 2.9 | 2.8 | 2.6 | 2.4 | 2.2 | 1.9 | 1.7 | 2.0 | 1.9 | 1.7 | 1.8 | 1.4 | 1.5 | 1.3 | 1.1 | 1.0 | 0.9 | 0.9 | +0.1 |
| Female | 0.9 | 1.5 | 1.5 | 2.1 | 2.6 | 3.1 | 2.5 | 3.1 | 2.7 | 2.6 | 2.6 | 2.3 | 2.3 | 2.3 | 2.3 | 2.1 | 2.2 | 1.8 | 1.7 | 1.7 | 1.3 | 1.2 | 1.0 | 1.1 | 0.8 | -0.2 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 3.2 | 4.8 | 5.4 | 6.6 | 7.0 | 7.9 | 7.5 | 9.4 | 8.1 | 7.5 | 7.0 | 7.2 | 7.1 | 6.8 | 6.1 | 7.1 | 6.5 | 6.9 | 6.4 | 5.6 | 5.5 | 4.6 | 3.4 | 3.0 | 2.5 | -0.5 |
| Complete 4 years | 0.8 | 1.0 | 1.1 | 1.5 | 2.0 | 2.2 | 2.2 | 2.3 | 2.0 | 2.0 | 2.0 | 1.8 | 1.6 | 1.5 | 1.8 | 1.5 | 1.5 | 1.3 | 1.2 | 1.3 | 1.1 | 0.9 | 0.8 | 0.8 | 0.8 | -0.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 1.3 | 0.8 | 1.0 | 2.2 | 2.2 | 2.6 | 2.4 | 1.9 | 2.2 | 1.6 | 1.9 | 1.6 | 1.6 | 1.9 | 1.8 | 1.3 | 1.2 | 1.2 | 1.4 | 1.0 | 0.9 | 1.1 | 0.8 | 0.5 | 0.6 | 0.0 |
| Midwest | 0.9 | 1.4 | 1.0 | 1.2 | 2.6 | 2.9 | 2.6 | 2.7 | 2.6 | 2.9 | 2.3 | 2.3 | 2.0 | 1.6 | 2.0 | 1.3 | 1.6 | 1.9 | 1.8 | 2.0 | 1.3 | 0.6 | 0.8 | 0.8 | 0.8 | 0.0 |
| South | 1.1 | 1.7 | 2.1 | 2.5 | 2.4 | 2.7 | 2.6 | 3.8 | 3.1 | 2.2 | 3.2 | 2.6 | 2.5 | 2.1 | 2.4 | 2.9 | 2.3 | 2.2 | 1.2 | 1.6 | 1.3 | 1.4 | 1.0 | 1.3 | 1.0 | -0.3 |
| West | 1.5 | 2.0 | 2.7 | 2.3 | 3.3 | 3.7 | 3.7 | 3.3 | 2.7 | 3.7 | 2.4 | 2.4 | 2.3 | 2.4 | 2.4 | 1.9 | 2.2 | 1.6 | 2.1 | 1.7 | 2.1 | 1.4 | 1.3 | 1.3 | 1.1 | -0.2 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 1.1 | 1.4 | 1.3 | 1.9 | 2.4 | 2.8 | 2.4 | 2.3 | 2.1 | 2.3 | 2.1 | 2.0 | 1.7 | 2.2 | 2.2 | 1.9 | 1.9 | 2.0 | 1.1 | 1.4 | 1.5 | 1.3 | 1.0 | 1.2 | 1.0 | -0.2 |
| Other MSA | 1.1 | 1.7 | 2.2 | 2.5 | 2.8 | 3.2 | 2.9 | 3.3 | 2.8 | 2.5 | 2.8 | 2.3 | 2.2 | 2.1 | 2.2 | 2.0 | 2.1 | 1.7 | 1.9 | 1.8 | 1.5 | 1.2 | 1.0 | 1.0 | 1.1 | +0.1 |
| Non-MSA | 1.2 | 1.3 | 1.2 | 1.4 | 2.4 | 2.7 | 3.0 | 3.4 | 3.2 | 3.1 | 2.5 | 2.6 | 2.7 | 1.7 | 2.2 | 2.2 | 1.8 | 1.7 | 1.4 | 1.5 | 1.2 | 0.9 | 0.8 | 1.0 | 0.4 | -0.5 s |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 2.4 | 3.2 | 2.9 | 3.5 | 4.9 | 3.9 | 4.7 | 6.3 | 5.6 | 5.3 | 4.4 | 3.7 | 4.1 | 3.3 | 4.2 | 4.4 | 3.8 | 3.6 | 3.9 | 3.3 | 2.6 | 2.6 | 2.1 | 1.8 | 1.2 | -0.6 |
| 2.5-3.0 | 1.4 | 1.6 | 2.0 | 2.3 | 2.4 | 3.3 | 3.0 | 3.3 | 3.1 | 2.9 | 2.8 | 2.8 | 2.4 | 2.5 | 2.9 | 2.2 | 2.2 | 2.3 | 1.8 | 2.0 | 2.1 | 1.6 | 1.1 | 1.1 | 0.9 | -0.2 |
| 3.5-4.0 | 0.7 | 1.2 | 1.8 | 2.1 | 2.8 | 3.3 | 2.8 | 3.1 | 2.8 | 2.5 | 2.4 | 2.2 | 2.2 | 2.0 | 2.5 | 2.0 | 1.8 | 1.8 | 1.5 | 1.6 | 1.6 | 1.2 | 0.9 | 1.1 | 0.8 | -0.2 |
| 4.5-5.0 | 0.7 | 1.0 | 1.0 | 1.6 | 1.9 | 2.7 | 2.6 | 2.2 | 1.7 | 1.8 | 2.1 | 2.0 | 1.5 | 1.8 | 1.5 | 1.4 | 1.4 | 1.2 | 0.8 | 1.2 | 0.9 | 0.5 | 0.7 | 0.9 | 0.6 | -0.3 |
| 5.5-6.0 (High) | 1.2 | 1.5 | 1.1 | 1.9 | 2.5 | 2.5 | 2.3 | 2.5 | 2.5 | 2.2 | 1.6 | 1.5 | 2.0 | 1.2 | 1.2 | 1.5 | 1.3 | 1.4 | 1.5 | 1.2 | 0.8 | 0.7 | 0.8 | 0.6 | 1.0 | +0.3 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 1.2 | 1.3 | 1.6 | 2.3 | 2.8 | 3.0 | 2.8 | 2.6 | 2.5 | 2.5 | 2.4 | 2.2 | 1.9 | 1.8 | 1.9 | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 | 1.0 | 0.9 | 0.7 | 0.7 | -0.1 |
| African American | - | 0.7 | 0.7 | 0.7 | 0.6 | 0.6 | 0.5 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 1.0 | 1.0 | 0.9 | 0.9 | 0.8 | 0.8 | 0.7 | 0.5 | 0.6 | 0.8 | 0.8 | 0.7 | -0.1 |
| Hispanic | - | 3.1 | 4.0 | 4.5 | 4.7 | 4.8 | 4.3 | 5.2 | 5.9 | 4.7 | 4.2 | 4.1 | 3.8 | 3.6 | 3.6 | 3.5 | 3.8 | 3.5 | 2.8 | 2.8 | 2.9 | 2.6 | 1.8 | 1.4 | 1.3 | -0.1 |

[^7] rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix $B$ for details.
To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

## TABLE 37

## COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 10

Percentage who used in last 12 months
2014-



| Total | 2.2 | 1.9 | 2.1 | 2.8 | 3.5 | 4.2 | 4.7 | 4.7 | 4.9 | 4.4 | 3.6 | 4.0 | 3.3 | 3.7 | 3.5 | 3.2 | 3.4 | 3.0 | 2.7 | 2.2 | 1.9 | 2.0 | 1.9 | 1.5 | 1.8 | +0.3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 2.2 | 2.0 | 2.5 | 3.1 | 3.5 | 4.5 | 4.7 | 4.9 | 5.2 | 4.7 | 3.8 | 4.2 | 3.3 | 3.9 | 3.6 | 3.2 | 3.6 | 3.0 | 2.8 | 2.7 | 2.3 | 2.3 | 2.5 | 1.8 | 1.9 | +0.1 |
| Female | 2.2 | 1.7 | 1.6 | 2.5 | 3.3 | 4.0 | 4.6 | 4.4 | 4.6 | 4.1 | 3.2 | 3.9 | 3.2 | 3.4 | 3.3 | 3.1 | 3.3 | 2.8 | 2.4 | 1.6 | 1.4 | 1.6 | 1.3 | 1.0 | 1.7 | +0.7 s |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 4.7 | 4.0 | 5.1 | 6.6 | 7.2 | 10.0 | 10.4 | 10.7 | 11.6 | 9.7 | 9.1 | 10.1 | 8.3 | 9.4 | 8.8 | 9.0 | 8.6 | 8.7 | 8.5 | 7.2 | 5.5 | 6.8 | 4.1 | 4.8 | 4.3 | -0.5 |
| Complete 4 years | 1.7 | 1.4 | 1.4 | 2.0 | 2.8 | 3.2 | 3.7 | 3.6 | 3.8 | 3.5 | 2.7 | 3.1 | 2.4 | 2.9 | 2.8 | 2.4 | 2.8 | 2.2 | 2.0 | 1.6 | 1.5 | 1.5 | 1.6 | 1.1 | 1.6 | +0.5 ss |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 1.5 | 1.0 | 2.0 | 2.4 | 2.5 | 3.0 | 3.0 | 4.9 | 4.6 | 3.1 | 2.3 | 2.4 | 3.1 | 3.4 | 3.6 | 2.5 | 2.9 | 2.0 | 2.4 | 2.0 | 2.0 | 1.3 | 1.2 | 1.2 | 1.7 | +0.5 |
| Midwest | 1.7 | 1.7 | 1.4 | 2.2 | 2.9 | 4.1 | 4.0 | 3.7 | 4.4 | 4.6 | 3.4 | 3.6 | 2.7 | 3.2 | 3.4 | 3.2 | 3.6 | 2.5 | 2.4 | 1.8 | 1.3 | 1.4 | 1.3 | 1.3 | 1.2 | -0.1 |
| South | 2.0 | 1.8 | 1.9 | 2.6 | 3.5 | 4.2 | 5.4 | 4.3 | 5.2 | 4.2 | 3.8 | 3.8 | 3.5 | 3.5 | 2.9 | 3.2 | 3.5 | 3.5 | 2.4 | 1.9 | 1.9 | 2.2 | 2.0 | 1.5 | 1.8 | +0.3 |
| West | 3.6 | 3.2 | 3.7 | 4.7 | 5.3 | 5.9 | 6.4 | 6.4 | 5.3 | 5.7 | 4.9 | 6.5 | 3.7 | 4.8 | 4.4 | 3.8 | 3.6 | 3.3 | 3.6 | 3.3 | 2.4 | 2.7 | 2.7 | 1.7 | 2.5 | +0.8 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 1.9 | 1.6 | 1.6 | 2.3 | 3.4 | 3.8 | 4.5 | 4.3 | 4.1 | 4.3 | 3.2 | 3.6 | 2.5 | 3.3 | 3.3 | 2.8 | 3.3 | 2.8 | 2.4 | 2.1 | 1.9 | 2.1 | 1.8 | 1.2 | 1.7 | +0.6 |
| Other MSA | 2.7 | 2.1 | 2.3 | 3.1 | 3.5 | 4.7 | 4.3 | 4.7 | 5.1 | 4.2 | 3.7 | 4.4 | 3.2 | 3.8 | 3.4 | 3.2 | 3.4 | 3.3 | 3.1 | 2.3 | 2.0 | 1.7 | 2.1 | 1.3 | 1.7 | +0.4 |
| Non-MSA | 1.6 | 1.7 | 2.1 | 2.7 | 3.6 | 3.7 | 5.7 | 5.2 | 5.4 | 4.7 | 3.8 | 3.8 | 4.6 | 3.9 | 3.8 | 3.8 | 3.7 | 2.4 | 2.2 | 2.1 | 1.6 | 2.2 | 1.3 | 2.2 | 2.1 | -0.1 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 3.3 | 3.5 | 3.2 | 3.8 | 5.3 | 7.4 | 6.3 | 8.1 | 8.2 | 7.7 | 5.6 | 7.9 | 7.0 | 6.5 | 5.3 | 6.5 | 6.4 | 6.8 | 6.0 | 4.4 | 3.4 | 5.3 | 3.1 | 2.7 | 3.9 | +1.3 |
| 2.5-3.0 | 2.4 | 1.7 | 2.2 | 2.9 | 4.3 | 4.5 | 5.0 | 5.5 | 5.9 | 5.4 | 5.2 | 4.8 | 3.9 | 4.2 | 4.6 | 4.1 | 3.9 | 3.5 | 3.3 | 2.5 | 2.0 | 2.3 | 2.4 | 1.5 | 2.3 | +0.9 |
| 3.5-4.0 | 2.4 | 2.1 | 2.5 | 3.2 | 3.7 | 4.3 | 5.4 | 4.4 | 4.7 | 4.4 | 2.9 | 3.8 | 3.4 | 4.0 | 3.4 | 2.9 | 3.5 | 2.7 | 2.7 | 1.9 | 1.9 | 1.6 | 1.6 | 1.8 | 1.9 | +0.1 |
| 4.5-5.0 | 1.6 | 1.4 | 1.6 | 2.1 | 2.6 | 3.4 | 3.7 | 3.5 | 3.9 | 3.2 | 2.7 | 2.4 | 2.2 | 3.0 | 2.8 | 2.0 | 2.5 | 2.2 | 1.6 | 1.8 | 1.4 | 1.5 | 1.4 | 0.8 | 1.1 | +0.3 |
| 5.5-6.0 (High) | 1.9 | 1.5 | 1.1 | 1.9 | 1.9 | 3.4 | 3.3 | 3.2 | 3.9 | 2.9 | 2.0 | 3.2 | 1.6 | 1.8 | 2.4 | 3.0 | 2.5 | 1.6 | 2.0 | 1.4 | 1.3 | 1.2 | 1.6 | 1.1 | 1.2 | +0.2 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 2.1 | 2.0 | 2.2 | 3.0 | 3.8 | 4.4 | 4.7 | 4.9 | 4.7 | 3.9 | 3.9 | 3.9 | 3.7 | 3.7 | 3.5 | 3.5 | 3.2 | 2.6 | 2.1 | 1.7 | 1.6 | 1.6 | 1.5 | 1.5 | +0.1 |
| African American | - | 0.6 | 0.6 | 1.0 | 0.9 | 0.7 | 0.8 | 1.0 | 0.9 | 0.6 | 0.8 | 1.0 | 0.9 | 0.8 | 1.0 | 1.0 | 0.8 | 0.8 | 0.9 | 0.9 | 0.7 | 1.3 | 1.6 | 0.9 | 1.0 | 0.0 |
| Hispanic | - | 3.7 | 3.7 | 4.9 | 5.5 | 7.0 | 8.5 | 8.3 | 8.2 | 8.0 | 6.6 | 6.0 | 6.1 | 5.8 | 6.4 | 5.9 | 4.9 | 5.2 | 5.2 | 4.6 | 4.1 | 3.8 | 3.7 | 2.8 | 2.2 | -0.6 |

[^8] rounding. See Table S 2 for the number of subgroup cases. See appendix B for definition of variables in table.
${ }^{\text {a P P }}$ arental education is an average score of mother's education and father's education. See appendix $B$ for details.
${ }^{\text {To }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 38
COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | cont.) |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | 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 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 7.5 | 7.5 | 9.3 | 11.4 | 14.6 | 14.8 | 13.8 | 13.1 | 13.2 | 13.8 | 14.8 | 14.3 | 11.3 | 9.1 | 8.1 | 6.6 | 4.1 | 3.7 | 4.0 | 4.5 |  |
| Female | 3.9 | 4.4 | 4.9 | 6.5 | 9.3 | 9.8 | 10.4 | 9.6 | 9.3 | 9.1 | 11.2 | 10.9 | 9.2 | 6.5 | 4.9 | 3.8 | 2.6 | 2.4 | 2.3 | 2.8 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 6.6 | 8.1 | 9.5 | 13.7 | 13.2 | 12.4 | 12.5 | 12.2 | 13.2 | 14.7 | 15.7 | 12.4 | 9.7 | 9.3 | 7.8 | 4.9 | 5.1 | 4.5 | 5.3 |  |
| Complete 4 years | - | 5.0 | 5.5 | 7.7 | 9.5 | 10.8 | 11.5 | 9.9 | 9.9 | 9.7 | 11.4 | 10.4 | 9.0 | 6.7 | 5.3 | 4.1 | 2.8 | 2.4 | 2.8 | 3.0 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 5.3 | 6.6 | 7.9 | 11.8 | 13.8 | 14.2 | 16.8 | 16.9 | 15.2 | 19.5 | 20.8 | 17.9 | 13.3 | 9.1 | 7.3 | 6.5 | 3.8 | 2.8 | 3.1 | 3.1 |  |
| Midwest | 5.1 | 5.5 | 6.3 | 8.5 | 10.5 | 10.9 | 9.4 | 9.0 | 8.0 | 5.8 | 8.2 | 10.1 | 7.5 | 6.1 | 5.3 | 4.1 | 3.2 | 2.5 | 2.4 | 3.7 |  |
| South | 5.4 | 5.1 | 6.0 | 6.8 | 8.5 | 7.8 | 6.8 | 6.3 | 7.7 | 7.7 | 7.5 | 7.1 | 7.0 | 6.2 | 6.0 | 4.8 | 3.0 | 3.2 | 3.1 | 3.4 |  |
| West | 7.8 | 7.9 | 10.2 | 10.7 | 18.6 | 20.6 | 22.1 | 17.9 | 19.2 | 19.3 | 19.7 | 20.0 | 16.4 | 12.1 | 8.5 | 6.6 | 4.4 | 4.3 | 4.9 | 4.5 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 7.3 | 8.6 | 8.6 | 12.3 | 16.6 | 18.7 | 17.5 | 17.2 | 16.9 | 16.8 | 18.8 | 18.8 | 12.9 | 9.3 | 6.4 | 5.6 | 4.1 | 3.6 | 2.7 | 3.3 |  |
| Other MSA | 5.9 | 5.8 | 7.3 | 8.9 | 11.7 | 11.3 | 11.5 | 10.1 | 11.2 | 11.0 | 12.4 | 12.0 | 10.1 | 8.5 | 7.1 | 5.4 | 3.7 | 3.3 | 3.9 | 4.1 |  |
| Non-MSA | 4.3 | 4.3 | 5.8 | 6.4 | 8.9 | 8.9 | 9.4 | 8.5 | 7.3 | 8.3 | 9.2 | 9.0 | 8.1 | 5.3 | 5.4 | 4.8 | 2.5 | 2.4 | 2.7 | 3.2 |  |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 4.5 | 5.3 | 5.5 | 6.3 | 8.4 | 9.0 | 8.3 | 7.6 | 9.0 | 9.4 | 12.0 | 10.5 | 8.7 | 7.6 | 6.7 | 4.7 | 3.5 | 3.9 | 3.5 | 4.1 |  |
| 2.5-3.0 | 4.6 | 6.1 | 6.8 | 8.7 | 11.1 | 11.2 | 10.5 | 11.0 | 9.8 | 10.9 | 12.7 | 12.9 | 9.9 | 7.4 | 6.4 | 5.6 | 3.8 | 3.3 | 3.0 | 4.0 |  |
| 3.5-4.0 | 4.5 | 5.9 | 7.2 | 9.0 | 13.2 | 13.3 | 13.3 | 12.5 | 11.7 | 12.2 | 14.0 | 13.6 | 11.2 | 7.2 | 6.4 | 5.6 | 3.7 | 3.0 | 3.8 | 3.8 |  |
| 4.5-5.0 | 6.3 | 7.6 | 8.1 | 10.4 | 14.0 | 13.6 | 14.9 | 13.6 | 13.1 | 12.2 | 13.7 | 12.2 | 10.0 | 8.7 | 7.1 | 4.4 | 3.1 | 2.9 | 3.0 | 3.1 |  |
| 5.5-6.0 (High) | 5.2 | 7.1 | 9.5 | 11.6 | 15.2 | 16.3 | 16.2 | 13.8 | 15.1 | 13.4 | 11.9 | 12.5 | 10.8 | 8.1 | 5.8 | 5.5 | 2.4 | 2.6 | 2.4 | 3.3 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 6.5 | 8.3 | 10.9 | 12.8 | 13.0 | 12.6 | 11.8 | 11.9 | 13.0 | 13.5 | 12.0 | 9.6 | 7.6 | 6.3 | 4.6 | 3.3 | 3.1 | 3.5 |  |
| African American | - | - | 4.8 | 4.6 | 4.6 | 5.2 | 4.8 | 5.2 | 7.2 | 6.3 | 5.3 | 5.8 | 4.8 | 3.8 | 2.9 | 1.7 | 1.5 | 1.2 | 0.8 | 0.9 |  |
| Hispanic | - | - | 7.2 | 7.5 | 8.9 | 11.2 | 12.4 | 12.1 | 11.4 | 13.3 | 16.3 | 16.7 | 14.0 | 9.9 | 7.8 | 7.4 | 6.1 | 5.2 | 5.8 | 5.4 |  |

[^9]TABLE 38 (cont.)
COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014- |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | 2001 | 2002 | $\underline{2003}$ | 2004 | $\underline{2005}$ | 2006 | $\underline{2007}$ | 2008 | $\underline{2009}$ | 2010 | 2011 | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | change |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 4.0 | 4.9 | 5.5 | 5.7 | 6.2 | 5.0 | 4.8 | 5.0 | 4.8 | 5.3 | 5.1 | 5.7 | 5.2 | 4.4 | 3.4 | 2.9 | 2.9 | 2.7 | 2.6 | 2.6 | 2.5 | 0.0 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 4.8 | 6.0 | 6.6 | 6.8 | 7.3 | 5.8 | 5.4 | 5.9 | 5.9 | 6.5 | 5.8 | 6.0 | 5.9 | 5.2 | 4.1 | 4.0 | 3.6 | 3.3 | 3.4 | 3.5 | 3.3 | -0.2 |
| Female | 3.1 | 3.5 | 4.2 | 4.5 | 5.0 | 3.9 | 4.1 | 4.0 | 3.7 | 4.1 | 4.2 | 5.2 | 4.4 | 3.5 | 2.7 | 1.9 | 2.1 | 2.0 | 1.7 | 1.6 | 1.7 | +0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 5.6 | 7.5 | 8.1 | 9.7 | 9.1 | 7.1 | 8.2 | 8.6 | 6.0 | 8.3 | 7.5 | 8.1 | 8.8 | 7.4 | 5.4 | 5.2 | 5.4 | 4.2 | 5.1 | 3.9 | 4.4 | +0.5 |
| Complete 4 years | 3.4 | 4.0 | 4.4 | 4.5 | 5.4 | 4.2 | 3.7 | 3.9 | 4.2 | 4.3 | 4.4 | 5.1 | 4.4 | 3.6 | 2.8 | 2.4 | 2.3 | 2.3 | 1.9 | 2.2 | 2.1 | -0.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 3.8 | 5.5 | 6.6 | 5.9 | 4.3 | 4.1 | 4.8 | 5.0 | 5.2 | 5.0 | 4.7 | 6.7 | 6.0 | 4.5 | 2.8 | 3.3 | 2.8 | 2.1 | 2.7 | 2.5 | 2.3 | -0.2 |
| Midwest | 3.4 | 3.8 | 4.7 | 5.8 | 6.2 | 4.8 | 5.7 | 5.2 | 3.9 | 4.2 | 5.0 | 4.2 | 5.0 | 3.2 | 3.6 | 2.4 | 2.9 | 2.2 | 1.9 | 2.3 | 1.8 | -0.4 |
| South | 3.6 | 4.6 | 4.8 | 5.8 | 6.9 | 4.7 | 3.9 | 5.0 | 4.7 | 5.4 | 5.3 | 6.4 | 5.2 | 4.8 | 3.2 | 2.5 | 2.6 | 2.5 | 2.2 | 2.7 | 2.0 | -0.7 |
| West | 5.8 | 6.1 | 6.8 | 5.4 | 6.9 | 6.3 | 5.0 | 4.6 | 5.8 | 7.0 | 5.0 | 5.5 | 4.8 | 4.9 | 3.9 | 4.0 | 3.3 | 4.1 | 4.0 | 2.7 | 4.4 | +1.7 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 4.4 | 4.8 | 4.7 | 5.4 | 5.0 | 4.1 | 4.3 | 4.1 | 3.8 | 4.7 | 5.2 | 7.4 | 5.0 | 4.4 | 3.4 | 3.3 | 2.9 | 2.9 | 2.6 | 2.3 | 3.0 | +0.8 |
| Other MSA | 3.9 | 4.9 | 5.6 | 5.8 | 6.6 | 4.9 | 5.0 | 5.4 | 5.7 | 5.8 | 5.2 | 4.8 | 5.4 | 4.3 | 3.3 | 3.1 | 2.9 | 2.9 | 3.0 | 3.1 | 2.3 | -0.8 s |
| Non-MSA | 3.9 | 4.9 | 6.0 | 6.0 | 6.9 | 6.1 | 5.2 | 5.3 | 4.6 | 5.0 | 4.7 | 4.9 | 5.3 | 4.5 | 3.6 | 1.9 | 2.7 | 2.1 | 1.9 | 1.7 | 2.4 | +0.7 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 4.8 | 5.3 | 6.5 | 6.9 | 9.0 | 6.2 | 5.7 | 6.6 | 4.8 | 7.3 | 4.3 | 6.1 | 6.2 | 4.7 | 4.1 | 3.2 | 4.2 | 3.0 | 4.2 | 3.0 | 4.0 | +1.1 |
| 2.5-3.0 | 3.9 | 5.0 | 5.5 | 6.3 | 6.0 | 4.6 | 6.0 | 5.3 | 4.1 | 5.2 | 6.6 | 6.3 | 5.9 | 4.0 | 3.6 | 3.2 | 2.6 | 3.1 | 2.9 | 3.1 | 2.6 | -0.4 |
| 3.5-4.0 | 4.2 | 5.0 | 5.6 | 6.0 | 6.8 | 5.0 | 4.8 | 5.3 | 5.2 | 5.3 | 5.2 | 5.7 | 5.5 | 4.9 | 3.4 | 3.0 | 3.0 | 2.6 | 3.0 | 2.4 | 2.3 | -0.1 |
| 4.5-5.0 | 3.7 | 4.8 | 5.2 | 5.0 | 5.4 | 5.3 | 4.4 | 4.2 | 4.7 | 5.2 | 4.3 | 5.1 | 4.9 | 4.0 | 3.2 | 2.5 | 2.3 | 2.6 | 1.6 | 2.2 | 2.2 | +0.1 |
| 5.5-6.0 (High) | 3.4 | 4.3 | 4.4 | 4.4 | 5.2 | 3.9 | 2.6 | 4.3 | 4.4 | 4.3 | 4.1 | 5.7 | 4.0 | 4.1 | 2.5 | 2.4 | 3.0 | 2.4 | 2.1 | 2.6 | 2.2 | -0.4 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 4.0 | 4.5 | 5.5 | 6.3 | 6.7 | 6.2 | 5.5 | 5.7 | 5.6 | 5.6 | 5.6 | 5.8 | 6.1 | 5.6 | 4.4 | 3.4 | 3.1 | 3.1 | 2.6 | 2.3 | 2.3 | 0.0 |
| African American | 1.0 | 0.8 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 0.9 | 1.1 | 1.2 | 1.2 | 1.6 | 1.3 | 0.8 | 0.7 | 0.9 | 1.1 | 0.9 | 0.9 | 1.6 | 1.5 | -0.1 |
| Hispanic | 5.5 | 7.3 | 7.6 | 6.7 | 7.5 | 7.6 | 6.1 | 5.5 | 4.9 | 5.5 | 6.2 | 6.5 | 6.0 | 4.7 | 4.0 | 3.5 | 3.3 | 3.4 | 3.8 | 3.6 | 3.4 | -0.2 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $s=.05, \mathrm{ss}=.01, \mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.
${ }^{2}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined

## TABLE 39

CRACK: Trends in Annual Prevalence of Use by Subgroups in Grade 8

Percentage who used in last 12 months
2014-



| Total | 0.7 | 0.9 | 1.0 | 1.3 | 1.6 | 1.8 | 1.7 | 2.1 | 1.8 | 1.8 | 1.7 | 1.6 | 1.6 | 1.3 | 1.4 | 1.3 | 1.3 | 1.1 | 1.1 | 1.0 | 0.9 | 0.6 | 0.6 | 0.7 | 0.5 | -0.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 0.8 | 0.9 | 1.1 | 1.3 | 1.5 | 1.7 | 1.8 | 2.1 | 1.8 | 1.7 | 1.6 | 1.6 | 1.3 | 1.1 | 1.3 | 1.2 | 1.2 | 1.0 | 0.9 | 0.9 | 0.8 | 0.6 | 0.5 | 0.6 | 0.5 | -0.1 |
| Female | 0.5 | 0.9 | 0.9 | 1.2 | 1.6 | 1.9 | 1.5 | 2.1 | 1.8 | 1.8 | 1.8 | 1.6 | 1.7 | 1.5 | 1.5 | 1.3 | 1.5 | 1.2 | 1.2 | 1.1 | 1.0 | 0.7 | 0.7 | 0.8 | 0.6 | -0.2 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 2.0 | 2.9 | 3.4 | 4.6 | 4.2 | 4.9 | 4.7 | 7.5 | 5.3 | 5.2 | 4.4 | 5.7 | 5.8 | 4.9 | 3.3 | 4.4 | 4.1 | 4.3 | 4.8 | 3.2 | 3.5 | 2.8 | 2.2 | 2.2 | 1.6 | -0.6 |
| Complete 4 years | 0.4 | 0.6 | 0.6 | 0.8 | 1.3 | 1.3 | 1.3 | 1.5 | 1.4 | 1.4 | 1.4 | 1.2 | 1.1 | 1.0 | 1.2 | 1.0 | 1.1 | 0.8 | 0.8 | 0.8 | 0.7 | 0.5 | 0.5 | 0.6 | 0.4 | -0.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 0.5 | 0.4 | 0.4 | 1.4 | 1.4 | 1.7 | 1.6 | 1.2 | 1.5 | 1.2 | 1.2 | 1.2 | 1.3 | 1.2 | 0.9 | 0.9 | 0.8 | 0.8 | 1.0 | 0.8 | 0.5 | 0.8 | 0.6 | 0.3 | 0.4 | +0.1 |
| Midwest | 0.6 | 1.0 | 0.8 | 0.9 | 1.4 | 1.9 | 1.6 | 1.9 | 1.9 | 1.9 | 1.7 | 1.5 | 1.3 | 1.2 | 1.4 | 0.7 | 1.1 | 1.2 | 1.2 | 1.1 | 0.9 | 0.4 | 0.6 | 0.6 | 0.3 | -0.3 |
| South | 0.7 | 1.0 | 1.2 | 1.6 | 1.4 | 1.7 | 1.4 | 2.5 | 1.9 | 1.4 | 2.0 | 1.7 | 1.8 | 1.3 | 1.5 | 1.8 | 1.5 | 1.2 | 0.7 | 0.9 | 0.9 | 0.7 | 0.7 | 0.9 | 0.6 | -0.3 |
| West | 0.8 | 1.3 | 1.4 | 1.3 | 2.3 | 2.1 | 2.3 | 2.6 | 1.8 | 2.9 | 1.7 | 2.0 | 1.8 | 1.8 | 1.6 | 1.3 | 1.8 | 1.2 | 1.7 | 1.2 | 1.3 | 0.6 | 0.6 | 0.6 | 0.7 | 0.0 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 0.5 | 0.8 | 0.7 | 1.3 | 1.5 | 1.8 | 1.5 | 1.6 | 1.2 | 1.6 | 1.4 | 1.5 | 1.2 | 1.5 | 1.5 | 1.3 | 1.1 | 1.4 | 0.8 | 1.0 | 1.0 | 0.8 | 0.7 | 0.7 | 0.6 | -0.1 |
| Other MSA | 0.7 | 1.1 | 1.2 | 1.5 | 1.7 | 2.0 | 1.8 | 2.2 | 2.0 | 1.8 | 1.8 | 1.6 | 1.7 | 1.3 | 1.3 | 1.1 | 1.6 | 1.0 | 1.3 | 1.1 | 0.9 | 0.6 | 0.6 | 0.7 | 0.6 | -0.1 |
| Non-MSA | 0.8 | 0.8 | 0.9 | 1.0 | 1.4 | 1.7 | 1.7 | 2.6 | 2.1 | 2.0 | 1.8 | 1.8 | 1.7 | 1.2 | 1.4 | 1.6 | 1.2 | 1.0 | 0.9 | 0.8 | 0.9 | 0.4 | 0.6 | 0.7 | 0.3 | -0.4 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 1.7 | 2.2 | 1.8 | 2.8 | 3.0 | 2.7 | 3.0 | 5.0 | 3.6 | 3.7 | 3.2 | 3.1 | 3.3 | 2.2 | 3.1 | 3.0 | 2.9 | 2.8 | 3.3 | 1.8 | 2.0 | 1.6 | 1.2 | 1.2 | 0.9 | -0.3 |
| 2.5-3.0 | 0.7 | 0.8 | 1.0 | 1.4 | 1.2 | 2.1 | 2.0 | 2.2 | 2.0 | 2.1 | 1.8 | 2.1 | 1.7 | 1.7 | 1.8 | 1.5 | 1.4 | 1.6 | 0.9 | 1.1 | 1.4 | 0.8 | 0.7 | 0.9 | 0.7 | -0.2 |
| 3.5-4.0 | 0.4 | 0.7 | 1.2 | 0.9 | 1.7 | 2.0 | 1.4 | 2.1 | 2.0 | 1.8 | 1.3 | 1.4 | 1.6 | 1.3 | 1.6 | 1.2 | 1.3 | 0.8 | 1.0 | 0.9 | 0.9 | 0.7 | 0.5 | 0.6 | 0.4 | -0.3 |
| 4.5-5.0 | 0.4 | 0.6 | 0.5 | 1.1 | 1.3 | 1.5 | 1.5 | 1.6 | 1.0 | 1.0 | 1.5 | 1.2 | 1.0 | 1.1 | 0.9 | 0.9 | 0.9 | 0.7 | 0.6 | 0.8 | 0.6 | 0.2 | 0.5 | 0.5 | 0.4 | -0.2 |
| 5.5-6.0 (High) | 0.8 | 1.0 | 0.6 | 1.4 | 1.6 | 1.5 | 1.5 | 1.6 | 1.9 | 1.8 | 1.3 | 1.3 | 1.3 | 1.0 | 0.6 | 1.0 | 1.0 | 0.9 | 1.1 | 0.9 | 0.5 | 0.3 | 0.6 | 0.5 | 0.3 | -0.2 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 0.7 | 0.8 | 1.0 | 1.4 | 1.7 | 1.7 | 1.7 | 1.8 | 1.7 | 1.7 | 1.5 | 1.5 | 1.3 | 1.2 | 1.1 | 1.0 | 1.0 | 0.8 | 0.8 | 0.7 | 0.6 | 0.4 | 0.4 | 0.4 | -0.1 |
| African American | - | 0.4 | 0.4 | 0.5 | 0.5 | 0.4 | 0.4 | 0.5 | 0.5 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.8 | 0.6 | 0.6 | 0.5 | 0.7 | 0.6 | 0.5 | 0.5 | 0.7 | 0.6 | 0.6 | 0.0 |
| Hispanic | - | 1.9 | 2.0 | 2.1 | 2.7 | 3.0 | 2.8 | 3.6 | 3.9 | 2.9 | 2.6 | 2.7 | 2.8 | 2.6 | 2.5 | 2.6 | 2.7 | 2.5 | 2.2 | 2.1 | 2.1 | 1.7 | 1.1 | 0.9 | 0.8 | -0.1 |

[^10] rounding. See Table S 1 for the number of subgroup cases. See appendix B for definition of variables in table.

${ }^{5}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

## TABLE 40

CRACK: Trends in Annual Prevalence of Use by Subgroups in Grade 10

Percentage who used in last 12 months
2014-
$\underline{1991} \quad \underline{1992} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015} \quad \underline{\text { change }}$


| Total | 0.9 | 0.9 | 1.1 | 1.4 | 1.8 | 2.1 | 2.2 | 2.5 | 2.4 | 2.2 | 1.8 | 2.3 | 1.6 | 1.7 | 1.7 | 1.3 | 1.3 | 1.3 | 1.2 | 1.0 | 0.9 | 0.8 | 0.8 | 0.5 | 0.7 | +0.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 0.9 | 0.9 | 1.3 | 1.6 | 1.9 | 2.1 | 2.3 | 2.7 | 2.5 | 2.3 | 1.9 | 2.5 | 1.6 | 1.8 | 1.6 | 1.3 | 1.5 | 1.3 | 1.1 | 1.0 | 1.0 | 0.9 | 0.9 | 0.6 | 0.7 | +0.1 |
| Female | 0.8 | 0.9 | 0.7 | 1.0 | 1.6 | 2.1 | 2.2 | 2.2 | 2.3 | 2.1 | 1.7 | 2.2 | 1.6 | 1.5 | 1.7 | 1.2 | 1.1 | 1.2 | 1.2 | 0.9 | 0.8 | 0.6 | 0.7 | 0.5 | 0.6 | +0.2 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 2.4 | 2.1 | 2.7 | 3.4 | 3.7 | 5.0 | 4.9 | 6.0 | 5.5 | 5.2 | 4.7 | 5.6 | 4.5 | 4.6 | 4.8 | 3.7 | 3.8 | 3.9 | 4.1 | 3.4 | 2.5 | 3.5 | 1.3 | 1.8 | 2.2 | +0.4 |
| Complete 4 years | 0.6 | 0.6 | 0.7 | 0.9 | 1.5 | 1.5 | 1.8 | 1.9 | 1.8 | 1.7 | 1.4 | 1.8 | 1.1 | 1.2 | 1.3 | 1.0 | 1.0 | 0.9 | 0.9 | 0.7 | 0.7 | 0.5 | 0.8 | 0.4 | 0.5 | +0.2 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 0.5 | 0.4 | 1.1 | 1.4 | 1.1 | 1.4 | 1.5 | 2.6 | 2.5 | 1.7 | 1.0 | 1.4 | 1.3 | 1.4 | 1.8 | 0.9 | 1.1 | 1.0 | 1.2 | 1.0 | 1.1 | 0.5 | 0.6 | 0.5 | 0.7 | +0.2 |
| Midwest | 0.9 | 0.9 | 0.8 | 1.0 | 1.5 | 2.2 | 2.1 | 2.1 | 2.1 | 1.8 | 1.8 | 2.2 | 1.4 | 1.5 | 1.4 | 1.3 | 1.1 | 1.1 | 1.4 | 0.9 | 0.6 | 0.7 | 0.7 | 0.6 | 0.5 | 0.0 |
| South | 1.0 | 0.8 | 0.9 | 1.3 | 1.9 | 2.0 | 2.0 | 1.9 | 2.0 | 1.9 | 1.7 | 1.7 | 1.7 | 1.4 | 1.3 | 1.2 | 1.4 | 1.1 | 0.8 | 0.9 | 0.8 | 0.6 | 0.8 | 0.5 | 0.7 | +0.2 |
| West | 1.1 | 1.4 | 1.7 | 1.9 | 2.8 | 2.8 | 3.8 | 3.9 | 3.2 | 3.8 | 3.3 | 4.4 | 2.0 | 2.6 | 2.5 | 1.7 | 1.6 | 1.8 | 1.5 | 1.4 | 1.3 | 1.3 | 1.2 | 0.5 | 1.1 | +0.6 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 0.9 | 0.8 | 0.7 | 0.9 | 1.9 | 1.7 | 2.3 | 2.2 | 2.2 | 2.4 | 1.9 | 2.2 | 1.2 | 1.5 | 1.8 | 1.3 | 1.3 | 1.1 | 0.8 | 1.0 | 0.9 | 1.0 | 0.7 | 0.5 | 0.7 | +0.2 |
| Other MSA | 0.9 | 0.9 | 1.1 | 1.5 | 1.6 | 2.4 | 1.7 | 2.4 | 2.3 | 2.0 | 1.8 | 2.5 | 1.7 | 1.8 | 1.5 | 1.1 | 1.3 | 1.4 | 1.5 | 1.0 | 1.0 | 0.5 | 1.0 | 0.4 | 0.7 | +0.3 s |
| Non-MSA | 0.9 | 0.9 | 1.2 | 1.6 | 2.3 | 1.9 | 3.3 | 3.1 | 2.8 | 2.5 | 1.8 | 2.2 | 2.1 | 1.7 | 1.9 | 1.6 | 1.3 | 1.2 | 1.0 | 1.2 | 0.8 | 0.9 | 0.6 | 0.8 | 1.0 | +0.2 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 1.3 | 1.7 | 1.8 | 1.9 | 3.0 | 3.9 | 3.4 | 4.5 | 3.4 | 4.8 | 3.0 | 3.9 | 2.9 | 3.5 | 2.6 | 3.9 | 3.8 | 3.3 | 2.5 | 2.5 | 1.6 | 1.9 | 1.5 | 0.4 | 2.1 | +1.7 s |
| 2.5-3.0 | 1.0 | 0.8 | 1.0 | 1.1 | 2.4 | 2.5 | 2.4 | 3.1 | 2.9 | 2.9 | 2.5 | 2.6 | 1.8 | 1.9 | 2.5 | 1.6 | 1.6 | 1.3 | 1.6 | 0.9 | 0.9 | 1.0 | 1.0 | 0.6 | 0.8 | +0.3 |
| 3.5-4.0 | 0.9 | 1.0 | 1.4 | 1.5 | 1.7 | 1.9 | 2.6 | 2.0 | 2.5 | 2.2 | 1.4 | 2.2 | 1.6 | 1.6 | 1.4 | 1.0 | 0.9 | 1.1 | 1.3 | 0.8 | 0.9 | 0.5 | 0.6 | 0.8 | 0.6 | -0.1 |
| 4.5-5.0 | 0.7 | 0.6 | 0.7 | 1.0 | 1.3 | 1.4 | 1.8 | 2.0 | 1.9 | 1.1 | 1.6 | 1.4 | 1.3 | 1.4 | 1.3 | 0.8 | 0.9 | 1.0 | 0.7 | 0.8 | 0.6 | 0.6 | 0.7 | 0.3 | 0.4 | +0.1 |
| 5.5-6.0 (High) | 0.7 | 0.9 | 0.5 | 1.1 | 1.1 | 1.8 | 1.2 | 1.8 | 1.8 | 1.4 | 1.2 | 2.2 | 0.8 | 0.8 | 1.0 | 1.0 | 0.7 | 0.7 | 0.6 | 0.9 | 0.8 | 0.4 | 0.8 | 0.4 | 0.6 | +0.2 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 0.9 | 0.9 | 1.1 | 1.5 | 1.9 | 2.2 | 2.3 | 2.4 | 2.2 | 1.8 | 2.0 | 2.0 | 1.6 | 1.5 | 1.4 | 1.2 | 1.1 | 1.0 | 0.9 | 0.7 | 0.6 | 0.5 | 0.6 | 0.5 | -0.1 |
| African American | - | 0.3 | 0.4 | 0.8 | 0.6 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.7 | 0.8 | 0.6 | 0.4 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.6 | 0.7 | 0.6 | 0.8 | 0.7 | 0.8 | +0.1 |
| Hispanic | - | 1.5 | 1.7 | 1.9 | 2.5 | 3.7 | 3.7 | 4.1 | 4.4 | 4.0 | 3.7 | 3.6 | 3.5 | 3.1 | 3.6 | 3.1 | 2.3 | 2.4 | 2.5 | 2.0 | 1.9 | 2.0 | 1.8 | 1.0 | 0.8 | -0.2 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01, \mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates
for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.

on how race/ethnicity is defined

TABLE 41
CRACK: Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{1975}$ | 1976 | $\underline{1977}$ | $\underline{1978}$ | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | cont.) |
| Approximate weighted $N=$ | - | - | - | - | - | - | - | - | - | - | - | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | - | - | - | - | - | - | - | - | - | - | - | 4.1 | 3.9 | 3.1 | 3.1 | 1.9 | 1.5 | 1.5 | 1.5 | 1.9 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | - | - | - | - | - | - | - | - | - | - | 4.2 | 4.6 | 4.0 | 4.3 | 2.3 | 1.8 | 1.7 | 1.9 | 2.4 |  |
| Female | - | - | - | - | - | - | - | - | - | - | - | 3.6 | 3.0 | 2.0 | 1.8 | 1.4 | 1.0 | 1.0 | 1.1 | 1.3 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | - | - | - | - | - | - | - | - | - | - | 5.2 | 5.1 | 4.1 | 3.8 | 3.5 | 2.3 | 2.6 | 2.7 | 3.3 |  |
| Complete 4 years | - | - | - | - | - | - | - | - | - | - | - | 2.8 | 2.7 | 2.3 | 2.7 | 1.2 | 1.1 | 1.0 | 1.2 | 1.4 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | - | - | - | - | - | - | - | - | - | - | 6.0 | 4.0 | 2.3 | 3.3 | 2.0 | 1.3 | 1.3 | 1.2 | 1.5 |  |
| Midwest | - | - | - | - | - | - | - | - | - | - | - | 3.1 | 3.5 | 2.4 | 2.2 | 1.6 | 1.5 | 1.4 | 1.3 | 2.2 |  |
| South | - | - | - | - | - | - | - | - | - | - | - | 1.6 | 2.8 | 2.6 | 3.3 | 1.8 | 1.2 | 1.2 | 1.5 | 1.6 |  |
| West | - | - | - | - | - | - | - | - | - | - | - | 7.5 | 6.1 | 5.6 | 3.8 | 2.7 | 1.8 | 2.1 | 2.1 | 2.3 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | - | - | - | - | - | - | - | - | - | - | 5.9 | 4.7 | 3.9 | 3.4 | 1.6 | 1.2 | 1.3 | 1.3 | 1.5 |  |
| Other MSA | - | - | - | - | - | - | - | - | - | - | - | 3.5 | 3.5 | 3.2 | 3.3 | 2.0 | 1.7 | 1.6 | 1.8 | 2.1 |  |
| Non-MSA | - | - | - | - | - | - | - | - | - | - | - | 3.5 | 3.7 | 2.0 | 2.2 | 2.0 | 1.2 | 1.3 | 1.4 | 1.9 |  |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | - | - | - | - | - | - | - | - | - | - | 1.2 | 3.6 | 3.3 | 3.1 | 2.2 | 1.6 | 1.9 | 2.6 | 2.7 |  |
| 2.5-3.0 | - | - | - | - | - | - | - | - | - | - | - | 5.3 | 4.2 | 2.6 | 3.1 | 2.2 | 1.5 | 1.9 | 1.6 | 2.2 |  |
| 3.5-4.0 | - | - | - | - | - | - | - | - | - | - | - | 4.0 | 4.0 | 3.4 | 2.8 | 1.8 | 1.7 | 1.3 | 1.5 | 1.8 |  |
| 4.5-5.0 | - | - | - | - | - | - | - | - | - | - | - | 2.9 | 3.4 | 3.1 | 2.6 | 1.1 | 0.9 | 1.0 | 1.4 | 1.1 |  |
| 5.5-6.0 (High) | - | - | - | - | - | - | - | - | - | - | - | 3.7 | 2.4 | 2.1 | 3.7 | 1.8 | 1.1 | 0.8 | 1.0 | 1.8 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | - | - | - | - | - | - | - | - | - | - | 3.8 | 3.4 | 3.1 | 2.1 | 1.6 | 1.3 | 1.3 | 1.6 |  |
| African American | - | - | - | - | - | - | - | - | - | - | - | - | 1.9 | 2.5 | 2.0 | 1.3 | 1.0 | 0.6 | 0.6 | 0.9 |  |
| Hispanic | - | - | - | - | - | - | - | - | - | - | - | - | 5.5 | 3.7 | 3.2 | 4.2 | 3.4 | 2.7 | 2.5 | 2.4 |  |

(Table continued on next page.)

## TABLE 41 (cont.)

## CRACK: Trends in Annual Prevalence of Use by Subgroups in Grade 12

Percentage who used in last 12 months


Total

| 2.1 | 2.1 | 2.4 | 2.5 | 2.7 | 2.2 | 2.1 | 2.3 | 2.2 | 2.3 | 1.9 | 2.1 | 1.9 | 1.6 | 1.3 | 1.4 | 1.0 | 1.2 | 1.1 | 1.1 | 1.1 | 0.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2.5 | 2.6 | 3.0 | 3.1 | 2.9 | 2.5 | 2.4 | 2.6 | 2.3 | 2.5 | 2.2 | 2.1 | 2.1 | 1.7 | 1.6 | 1.9 | 1.2 | 1.4 | 1.1 | 1.4 | 1.3 | -0.1 |
| 1.5 | 1.6 | 1.8 | 2.0 | 2.2 | 1.7 | 1.8 | 1.8 | 1.9 | 1.9 | 1.6 | 1.9 | 1.7 | 1.3 | 1.0 | 0.9 | 0.8 | 0.9 | 0.9 | 0.6 | 0.6 | -0.1 |
| 3.0 | 4.0 | 4.3 | 4.6 | 5.0 | 3.5 | 4.4 | 4.5 | 2.7 | 3.9 | 3.4 | 3.5 | 3.7 | 3.3 | 2.8 | 2.5 | 2.4 | 1.9 | 2.1 | 1.8 | 2.2 | +0.4 |
| 1.7 | 1.6 | 1.7 | 1.9 | 1.9 | 1.7 | 1.5 | 1.7 | 1.8 | 1.7 | 1.6 | 1.7 | 1.5 | 1.1 | 0.9 | 1.2 | 0.7 | 1.0 | 0.7 | 0.9 | 0.7 | -0.2 |
| 1.6 | 2.1 | 2.6 | 3.0 | 2.4 | 1.8 | 2.0 | 2.0 | 2.0 | 1.7 | 1.5 | 2.5 | 2.1 | 1.8 | 0.6 | 1.4 | 1.2 | 0.8 | 1.1 | 0.8 | 0.7 | -0.1 |
| 2.0 | 2.3 | 2.2 | 2.6 | 2.8 | 2.0 | 2.6 | 2.6 | 1.9 | 2.1 | 2.3 | 1.5 | 1.7 | 1.3 | 1.7 | 1.1 | 1.2 | 1.0 | 1.0 | 0.9 | 1.3 | +0.4 |
| 1.7 | 1.7 | 1.8 | 2.0 | 2.3 | 1.8 | 1.2 | 1.9 | 2.0 | 2.2 | 1.8 | 2.1 | 2.2 | 1.6 | 1.2 | 1.4 | 0.8 | 1.1 | 0.8 | 1.0 | 0.9 | -0.1 |
| 3.5 | 2.6 | 3.4 | 3.2 | 3.4 | 3.2 | 3.0 | 2.8 | 3.0 | 3.3 | 2.3 | 2.2 | 1.6 | 1.7 | 1.6 | 1.8 | 1.2 | 1.9 | 1.6 | 1.6 | 1.4 | -0.2 |
| 2.0 | 2.1 | 2.2 | 2.5 | 2.0 | 1.8 | 1.5 | 1.6 | 1.8 | 2.0 | 1.7 | 2.6 | 1.9 | 1.3 | 1.1 | 1.4 | 1.0 | 1.2 | 0.9 | 0.7 | 1.0 | +0.4 |
| 2.1 | 1.9 | 2.3 | 2.4 | 2.5 | 2.1 | 2.2 | 2.4 | 2.3 | 2.2 | 1.8 | 1.7 | 1.9 | 1.6 | 1.3 | 1.6 | 1.1 | 1.3 | 1.2 | 1.5 | 1.0 | -0.5 |
| 2.1 | 2.5 | 2.8 | 2.9 | 3.6 | 2.8 | 2.8 | 2.8 | 2.4 | 2.8 | 2.5 | 2.0 | 2.0 | 1.6 | 1.6 | 1.0 | 0.9 | 1.0 | 0.9 | 0.6 | 1.2 | +0.6 s |
| 3.4 | 3.4 | 3.6 | 3.9 | 3.2 | 2.8 | 3.8 | 4.8 | 2.5 | 3.3 | 2.3 | 3.6 | 3.6 | 2.1 | 2.2 | 2.5 | 2.3 | 1.9 | 1.5 | 1.8 | 1.8 | 0.0 |
| 2.3 | 2.4 | 2.5 | 2.8 | 2.8 | 2.1 | 2.6 | 2.2 | 1.6 | 2.9 | 2.4 | 2.4 | 2.2 | 1.4 | 0.9 | 1.7 | 0.8 | 1.3 | 1.0 | 1.2 | 1.2 | 0.0 |
| 1.7 | 2.2 | 2.0 | 2.4 | 3.0 | 2.2 | 1.8 | 2.3 | 2.3 | 1.9 | 2.0 | 2.0 | 1.9 | 1.6 | 1.4 | 1.4 | 1.2 | 1.0 | 1.2 | 0.7 | 1.0 | +0.3 |
| 1.9 | 1.6 | 2.5 | 2.1 | 2.2 | 1.8 | 1.9 | 1.7 | 2.2 | 1.8 | 1.5 | 1.8 | 1.7 | 1.4 | 1.4 | 1.0 | 0.8 | 1.1 | 0.8 | 0.8 | 0.7 | -0.1 |
| 1.5 | 1.6 | 1.8 | 2.1 | 1.6 | 2.2 | 1.2 | 1.5 | 1.9 | 1.7 | 1.5 | 1.2 | 1.0 | 1.3 | 0.6 | 0.8 | 0.8 | 1.1 | 0.8 | 1.4 | 0.8 | -0.5 |
| 1.9 | 2.0 | 2.2 | 2.6 | 2.8 | 2.5 | 2.2 | 2.3 | 2.2 | 2.2 | 2.1 | 1.9 | 2.0 | 1.8 | 1.4 | 1.2 | 1.1 | 1.1 | 1.0 | 0.8 | 0.8 | 0.0 |
| 1.0 | 0.7 | 0.5 | 0.3 | 0.4 | 0.5 | 0.5 | 0.7 | 1.2 | 1.3 | 0.9 | 1.0 | 1.0 | 0.9 | 0.9 | 0.7 | 0.7 | 0.7 | 0.9 | 1.3 | 1.3 | 0.0 |
| 3.1 | 4.1 | 4.2 | 3.9 | 3.5 | 3.4 | 3.1 | 3.1 | 2.9 | 3.0 | 3.1 | 3.1 | 2.7 | 2.0 | 1.6 | 1.8 | 1.9 | 1.7 | 1.7 | 1.7 | 1.5 | -0.1 |


| Hispanic | 3.1 | 4.1 | 4.2 |
| :--- | :---: | :---: | :---: |
| Source. $\quad$ The Monitoring the Future study, the University of Michigan. |  |  |  |

Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01, \mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of five forms in $1986 ; \mathrm{N}$ is one fifth of N indicated in Table S 3 . Data based on two forms in 1987-1989; $N$ is two fifths of $N$ indicated in 1987-1988 and two sixths of $N$ indicated in 1989 in Table S3. Data based on six forms beginnning in 1990.

${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

## TABLE 42

OTHER COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 8

Percentage who used in last 12 months
2014-



| Total | 1.0 | 1.2 | 1.3 | 1.7 | 2.1 | 2.5 | 2.2 | 2.4 | 2.3 | 1.9 | 1.9 | 1.8 | 1.6 | 1.6 | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 | 1.3 | 1.1 | 1.0 | 0.8 | 0.8 | 0.8 | 0.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1.1 | 1.2 | 1.5 | 1.7 | 2.0 | 2.2 | 2.5 | 2.3 | 2.3 | 1.9 | 1.8 | 1.7 | 1.5 | 1.3 | 1.5 | 1.4 | 1.3 | 1.4 | 1.3 | 1.3 | 1.1 | 0.9 | 0.8 | 0.8 | 0.9 | +0.1 |
| Female | 0.8 | 1.2 | 1.2 | 1.8 | 2.2 | 2.6 | 1.9 | 2.4 | 2.2 | 1.8 | 2.0 | 1.9 | 1.6 | 1.8 | 1.8 | 1.7 | 1.6 | 1.4 | 1.3 | 1.4 | 0.9 | 1.0 | 0.8 | 0.7 | 0.6 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 2.7 | 4.2 | 4.1 | 5.6 | 5.9 | 6.6 | 6.0 | 7.7 | 7.1 | 6.1 | 5.3 | 6.4 | 5.0 | 5.4 | 4.5 | 5.7 | 5.7 | 5.5 | 5.6 | 4.7 | 4.6 | 3.8 | 3.0 | 2.6 | 2.0 | -0.6 |
| Complete 4 years | 0.6 | 0.7 | 0.9 | 1.2 | 1.6 | 1.8 | 1.7 | 1.8 | 1.7 | 1.4 | 1.5 | 1.3 | 1.2 | 1.1 | 1.4 | 1.2 | 1.1 | 1.1 | 1.0 | 1.1 | 0.8 | 0.7 | 0.6 | 0.6 | 0.7 | 0.0 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 1.2 | 0.7 | 0.9 | 1.9 | 1.8 | 2.1 | 1.6 | 1.4 | 1.7 | 1.1 | 1.6 | 1.2 | 1.0 | 1.6 | 1.5 | 1.0 | 1.0 | 0.9 | 1.2 | 0.9 | 0.7 | 0.8 | 0.5 | 0.4 | 0.4 | -0.1 |
| Midwest | 0.6 | 1.0 | 0.7 | 0.9 | 2.0 | 2.4 | 2.0 | 1.9 | 2.2 | 2.3 | 1.6 | 1.8 | 1.7 | 1.1 | 1.3 | 1.1 | 1.3 | 1.5 | 1.5 | 1.6 | 1.0 | 0.5 | 0.6 | 0.6 | 0.6 | 0.0 |
| South | 1.0 | 1.5 | 1.6 | 2.0 | 2.0 | 2.3 | 2.1 | 3.1 | 2.6 | 1.7 | 2.4 | 2.1 | 1.9 | 1.7 | 1.9 | 2.3 | 1.8 | 1.8 | 1.0 | 1.3 | 1.1 | 1.2 | 0.8 | 0.9 | 0.9 | +0.1 |
| West | 1.3 | 1.5 | 2.1 | 2.0 | 2.7 | 3.1 | 2.9 | 2.5 | 2.2 | 2.5 | 1.7 | 1.9 | 1.6 | 1.8 | 1.8 | 1.5 | 1.5 | 1.3 | 1.8 | 1.4 | 1.6 | 1.2 | 1.1 | 1.1 | 0.9 | -0.2 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 0.9 | 1.1 | 1.0 | 1.6 | 2.0 | 2.5 | 1.7 | 1.8 | 1.8 | 1.6 | 1.6 | 1.4 | 1.2 | 1.7 | 1.6 | 1.5 | 1.5 | 1.5 | 0.9 | 1.1 | 1.2 | 1.1 | 0.8 | 1.1 | 0.8 | -0.2 |
| Other MSA | 0.9 | 1.4 | 1.8 | 2.1 | 2.1 | 2.6 | 2.2 | 2.5 | 2.3 | 1.8 | 2.2 | 1.8 | 1.6 | 1.6 | 1.7 | 1.6 | 1.5 | 1.4 | 1.6 | 1.5 | 1.2 | 1.0 | 0.9 | 0.7 | 0.9 | +0.2 |
| Non-MSA | 1.1 | 0.9 | 0.7 | 1.2 | 2.2 | 2.2 | 2.5 | 2.8 | 2.8 | 2.5 | 1.6 | 2.3 | 2.2 | 1.3 | 1.7 | 1.7 | 1.5 | 1.4 | 1.4 | 1.3 | 0.8 | 0.8 | 0.7 | 0.7 | 0.3 | -0.3 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 2.1 | 2.7 | 2.2 | 3.1 | 4.3 | 3.2 | 3.5 | 4.7 | 5.1 | 4.2 | 3.7 | 2.8 | 2.9 | 3.1 | 2.9 | 3.6 | 3.1 | 3.0 | 3.4 | 2.8 | 2.1 | 2.1 | 1.8 | 1.4 | 1.0 | -0.4 |
| 2.5-3.0 | 1.2 | 1.1 | 1.5 | 2.0 | 2.0 | 2.6 | 2.4 | 2.5 | 2.8 | 2.1 | 1.9 | 2.3 | 1.8 | 1.9 | 2.2 | 1.7 | 1.6 | 1.8 | 1.4 | 1.9 | 1.6 | 1.2 | 1.0 | 0.7 | 0.8 | +0.1 |
| 3.5-4.0 | 0.6 | 1.0 | 1.5 | 1.9 | 2.2 | 2.8 | 2.1 | 2.4 | 2.3 | 1.9 | 1.8 | 1.9 | 1.6 | 1.5 | 2.0 | 1.7 | 1.4 | 1.7 | 1.2 | 1.3 | 1.3 | 0.9 | 0.8 | 0.8 | 0.8 | 0.0 |
| 4.5-5.0 | 0.6 | 0.8 | 0.8 | 1.1 | 1.6 | 2.4 | 1.9 | 1.8 | 1.3 | 1.4 | 1.6 | 1.6 | 1.1 | 1.3 | 1.2 | 1.2 | 1.0 | 0.8 | 0.6 | 1.0 | 0.7 | 0.4 | 0.5 | 0.8 | 0.4 | -0.3 |
| 5.5-6.0 (High) | 1.0 | 1.2 | 0.8 | 1.2 | 2.0 | 1.9 | 1.7 | 1.8 | 1.8 | 1.3 | 1.1 | 0.8 | 1.5 | 0.9 | 0.9 | 0.9 | 0.9 | 1.1 | 1.3 | 0.9 | 0.6 | 0.6 | 0.7 | 0.4 | 0.8 | +0.4 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 0.9 | 1.0 | 1.2 | 1.8 | 2.4 | 2.5 | 2.2 | 2.1 | 1.9 | 1.8 | 1.8 | 1.8 | 1.5 | 1.4 | 1.5 | 1.3 | 1.2 | 1.2 | 1.2 | 1.0 | 0.8 | 0.7 | 0.5 | 0.5 | 0.0 |
| African American | - | 0.6 | 0.5 | 0.6 | 0.5 | 0.4 | 0.3 | 0.5 | 0.7 | 0.6 | 0.5 | 0.5 | 0.6 | 0.8 | 0.9 | 0.7 | 0.6 | 0.6 | 0.8 | 0.7 | 0.4 | 0.4 | 0.6 | 0.6 | 0.5 | -0.1 |
| Hispanic | - | 2.6 | 3.3 | 4.0 | 4.3 | 4.1 | 3.3 | 4.0 | 4.9 | 3.9 | 3.2 | 3.1 | 2.7 | 2.8 | 2.9 | 2.8 | 3.1 | 2.8 | 2.2 | 2.2 | 2.4 | 2.2 | 1.5 | 1.1 | 1.0 | -0.1 |

Source. The Monitoring the Future study, the University of Michigan.
 See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.
Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

## TABLE 43

OTHER COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 10

Percentage who used in last 12 months
2014-



| Total | 2.1 | 1.7 | 1.8 | 2.4 | 3.0 | 3.5 | 4.1 | 4.0 | 4.4 | 3.8 | 3.0 | 3.4 | 2.8 | 3.3 | 3.0 | 2.9 | 3.1 | 2.6 | 2.3 | 1.9 | 1.7 | 1.8 | 1.6 | 1.3 | 1.5 | +0.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 2.0 | 1.9 | 2.2 | 2.7 | 3.1 | 3.7 | 4.1 | 4.1 | 4.6 | 4.2 | 3.3 | 3.6 | 2.9 | 3.6 | 3.3 | 3.0 | 3.2 | 2.7 | 2.5 | 2.3 | 2.1 | 2.1 | 2.2 | 1.7 | 1.5 | -0.1 |
| Female | 2.1 | 1.5 | 1.4 | 2.1 | 2.9 | 3.3 | 4.0 | 3.8 | 4.1 | 3.4 | 2.6 | 3.3 | 2.7 | 3.0 | 2.7 | 2.8 | 2.9 | 2.4 | 2.1 | 1.3 | 1.2 | 1.5 | 1.0 | 0.9 | 1.4 | +0.5 s |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 4.4 | 3.3 | 4.5 | 5.9 | 6.3 | 8.4 | 9.0 | 9.3 | 10.5 | 8.3 | 8.2 | 8.7 | 7.3 | 8.3 | 8.1 | 8.3 | 7.5 | 7.8 | 7.2 | 6.8 | 5.1 | 6.2 | 3.9 | 4.5 | 3.1 | -1.4 |
| Complete 4 years | 1.6 | 1.3 | 1.3 | 1.7 | 2.5 | 2.7 | 3.2 | 3.0 | 3.4 | 3.0 | 2.1 | 2.6 | 2.1 | 2.6 | 2.3 | 2.2 | 2.5 | 1.8 | 1.8 | 1.3 | 1.3 | 1.4 | 1.3 | 0.9 | 1.3 | +0.4 s |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 1.3 | 1.0 | 1.8 | 2.0 | 2.2 | 2.2 | 2.5 | 4.3 | 4.1 | 2.5 | 2.0 | 1.8 | 2.7 | 3.2 | 3.0 | 2.5 | 2.5 | 1.7 | 2.1 | 1.7 | 1.7 | 1.1 | 1.1 | 1.0 | 1.4 | +0.4 |
| Midwest | 1.6 | 1.3 | 1.3 | 1.8 | 2.5 | 3.4 | 3.4 | 3.1 | 3.9 | 4.0 | 3.0 | 3.2 | 2.3 | 3.0 | 3.0 | 2.8 | 3.3 | 2.2 | 2.1 | 1.5 | 1.2 | 1.2 | 0.8 | 1.1 | 1.2 | 0.0 |
| South | 1.9 | 1.6 | 1.7 | 2.2 | 2.9 | 3.5 | 4.8 | 3.7 | 4.7 | 3.9 | 3.2 | 3.3 | 3.1 | 3.2 | 2.6 | 2.9 | 3.3 | 3.2 | 2.1 | 1.5 | 1.8 | 2.2 | 1.8 | 1.5 | 1.5 | 0.0 |
| West | 3.4 | 3.1 | 3.2 | 4.3 | 4.8 | 5.2 | 5.3 | 5.2 | 4.6 | 4.6 | 3.9 | 5.5 | 3.2 | 4.1 | 3.6 | 3.5 | 3.0 | 2.7 | 3.1 | 3.0 | 2.1 | 2.5 | 2.4 | 1.6 | 2.0 | +0.4 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 1.6 | 1.5 | 1.4 | 1.9 | 2.8 | 3.3 | 3.9 | 3.8 | 3.7 | 3.7 | 2.5 | 3.1 | 2.2 | 2.9 | 2.7 | 2.6 | 3.1 | 2.4 | 2.2 | 1.9 | 1.8 | 2.0 | 1.5 | 1.0 | 1.4 | +0.3 |
| Other MSA | 2.6 | 2.0 | 2.0 | 2.7 | 3.1 | 3.9 | 3.8 | 4.0 | 4.5 | 3.7 | 3.2 | 3.7 | 2.8 | 3.4 | 3.1 | 3.0 | 2.9 | 2.9 | 2.6 | 2.0 | 1.7 | 1.6 | 1.9 | 1.3 | 1.5 | +0.2 |
| Non-MSA | 1.4 | 1.4 | 1.9 | 2.5 | 3.1 | 3.2 | 4.9 | 4.2 | 4.8 | 4.0 | 3.2 | 3.3 | 4.1 | 3.6 | 3.3 | 3.4 | 3.3 | 2.0 | 1.9 | 1.7 | 1.5 | 2.0 | 0.9 | 1.9 | 1.8 | -0.1 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 3.1 | 2.7 | 2.7 | 3.1 | 5.0 | 6.1 | 5.5 | 6.7 | 7.6 | 6.3 | 4.8 | 7.1 | 6.4 | 5.7 | 4.5 | 5.6 | 5.1 | 5.9 | 5.1 | 3.6 | 3.1 | 5.3 | 2.5 | 2.6 | 2.5 | -0.1 |
| 2.5-3.0 | 2.2 | 1.6 | 2.0 | 2.6 | 3.6 | 3.6 | 4.3 | 4.5 | 5.1 | 4.4 | 4.5 | 3.9 | 3.5 | 3.7 | 4.0 | 3.7 | 3.3 | 3.1 | 2.7 | 2.3 | 1.9 | 2.2 | 2.3 | 1.3 | 1.9 | +0.6 |
| 3.5-4.0 | 2.2 | 2.0 | 2.2 | 2.7 | 3.3 | 3.8 | 4.6 | 4.0 | 4.2 | 4.0 | 2.5 | 3.2 | 2.9 | 3.7 | 3.0 | 2.8 | 3.2 | 2.4 | 2.5 | 1.7 | 1.7 | 1.5 | 1.4 | 1.5 | 1.7 | +0.2 |
| 4.5-5.0 | 1.6 | 1.3 | 1.4 | 1.8 | 2.2 | 3.0 | 3.3 | 3.0 | 3.5 | 3.0 | 2.2 | 2.0 | 1.8 | 2.8 | 2.4 | 1.8 | 2.4 | 1.9 | 1.4 | 1.6 | 1.3 | 1.3 | 1.1 | 0.8 | 1.0 | +0.3 |
| 5.5-6.0 (High) | 1.8 | 1.3 | 0.9 | 1.6 | 1.7 | 2.8 | 2.9 | 2.5 | 3.5 | 2.7 | 1.4 | 2.7 | 1.2 | 1.6 | 2.1 | 2.8 | 2.4 | 1.3 | 2.0 | 1.0 | 1.0 | 1.0 | 1.2 | 0.9 | 1.1 | +0.2 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 1.9 | 1.8 | 1.9 | 2.6 | 3.2 | 3.7 | 4.1 | 4.3 | 4.1 | 3.4 | 3.3 | 3.4 | 3.4 | 3.3 | 3.2 | 3.2 | 2.8 | 2.3 | 1.9 | 1.6 | 1.5 | 1.4 | 1.3 | 1.3 | +0.1 |
| African American | - | 0.5 | 0.5 | 0.9 | 0.8 | 0.6 | 0.6 | 0.9 | 0.8 | 0.5 | 0.5 | 0.7 | 0.7 | 0.7 | 0.8 | 0.9 | 0.6 | 0.7 | 0.7 | 0.6 | 0.6 | 1.2 | 1.4 | 0.7 | 0.6 | -0.1 |
| Hispanic | - | 3.4 | 3.4 | 4.6 | 5.2 | 6.1 | 7.5 | 7.0 | 6.8 | 7.1 | 5.6 | 5.0 | 5.2 | 5.1 | 5.4 | 5.0 | 4.5 | 4.6 | 4.5 | 4.0 | 3.7 | 3.4 | 3.4 | 2.6 | 1.9 | -0.7 s |

Source. The Monitoring the Future study, the University of Michigan.
 See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.
${ }^{2}$ Parental education is an average score of mother's education and father's education. See appendix $B$ for details.
${ }^{\text {b }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 44
OTHER COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 12

| Approximate weighted $N=$ | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{1975}$ | 1976 | 1977 | $\underline{1978}$ | $\underline{1979}$ | 1980 | $\underline{1981}$ | $\underline{1982}$ | 1983 | $\underline{1984}$ | $\underline{1985}$ | $\underline{1986}$ | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |  |
|  | - | - | - | - | - | - | - | - | - | - | - | - | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | - | - | - | - | - | - | - | - | - | - | - | - | 9.8 | 7.4 | 5.2 | 4.6 | 3.2 | 2.6 | 2.9 | 3.0 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | - | - | - | - | - | - | - | - | - | - | - | 10.1 | 8.0 | 6.5 | 5.8 | 3.7 | 3.1 | 3.7 | 3.7 |  |
| Female | - | - | - | - | - | - | - | - | - | - | - | - | 9.1 | 6.2 | 4.0 | 3.2 | 2.4 | 2.0 | 2.0 | 2.3 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years |  |  |  |  |  |  |  |  |  |  |  |  | 9.8 | 6.0 | 7.3 | 6.3 | 4.0 | 4.0 | 3.9 | 4.3 |  |
| Complete 4 years | - | - | - | - | - | - | - | - | - | - | - | - | 8.3 | 6.7 | 4.2 | 3.7 | 2.8 | 2.0 | 2.5 | 2.5 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | - | - | - | - | - | - | - | - | - | - | - | 12.9 | 7.0 | 4.9 | 5.6 | 3.4 | 2.8 | 2.3 | 2.8 |  |
| Midwest | - | - | - | - | - | - | - | - | - | - | - | - | 8.2 | 5.6 | 4.8 | 3.7 | 2.9 | 2.2 | 2.3 | 3.5 |  |
| South | - | - | - | - | - | - | - | - | - | - | - | - | 5.8 | 5.8 | 4.6 | 4.1 | 2.8 | 2.5 | 2.6 | 2.6 |  |
| West | - | - | - | - | - | - | - | - | - | - | - | - | 15.3 | 13.4 | 7.5 | 6.1 | 3.9 | 3.1 | 4.6 | 3.5 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | - | - | - | - | - | - | - | - | - | - | - | 13.3 | 9.8 | 5.6 | 5.0 | 3.7 | 3.1 | 2.6 | 2.6 |  |
| Other MSA | - | - | - | - | - | - | - | - | - | - | - | - | 8.9 | 7.8 | 5.4 | 4.7 | 3.3 | 2.5 | 3.6 | 3.5 |  |
| Non-MSA | - | - | - | - | - | - | - | - | - | - | - | - | 8.0 | 4.5 | 4.4 | 4.1 | 2.5 | 2.3 | 2.0 | 2.6 |  |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | - | - | - | - | - | - | - | - | - | - | - | 5.3 | 4.9 | 3.3 | 3.4 | 3.5 | 3.7 | 3.9 | 2.7 |  |
| 2.5-3.0 | - | - | - | - | - | - | - | - | - | - | - | - | 10.5 | 6.5 | 4.6 | 5.0 | 3.5 | 2.3 | 2.3 | 3.2 |  |
| 3.5-4.0 | - | - | - | - | - | - | - | - | - | - | - | - | 10.5 | 7.2 | 5.1 | 4.7 | 3.2 | 2.6 | 3.3 | 3.4 |  |
| 4.5-5.0 | - | - | - | - | - | - | - | - | - | - | - | - | 9.0 | 7.7 | 6.1 | 4.1 | 2.7 | 2.3 | 2.9 | 2.6 |  |
| 5.5-6.0 (High) | - | - | - | - | - | - | - | - | - | - | - | - | 9.7 | 9.0 | 6.5 | 5.4 | 2.4 | 2.0 | 1.7 | 3.1 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | - | - | - | - | - | - | - | - | - | - | - | 9.3 | 7.0 | 5.3 | 4.2 | 2.9 | 2.6 | 2.9 |  |
| African American | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.8 | 1.4 | 0.7 | 1.0 | 1.0 | 0.7 | 0.8 |  |
| Hispanic | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.3 | 5.1 | 5.1 | 5.0 | 4.3 | 5.1 | 5.1 |  |

## TABLE 44 (cont.)

OTHER COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014- <br> 2015 <br> change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | 2008 | 2009 | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 3.4 | 4.2 | 5.0 | 4.9 | 5.8 | 4.5 | 4.4 | 4.4 | 4.2 | 4.7 | 4.5 | 5.2 | 4.5 | 4.0 | 3.0 | 2.6 | 2.6 | 2.4 | 2.4 | 2.4 | 2.1 | -0.3 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 4.0 | 4.9 | 5.7 | 5.6 | 7.1 | 5.5 | 4.9 | 5.0 | 5.4 | 5.8 | 5.4 | 5.7 | 4.8 | 4.8 | 3.6 | 3.6 | 3.4 | 2.8 | 3.1 | 3.6 | 2.7 | -0.9 |
| Female | 2.5 | 3.2 | 4.0 | 3.9 | 4.2 | 3.4 | 3.7 | 3.7 | 2.9 | 3.5 | 3.6 | 4.4 | 3.9 | 3.1 | 2.3 | 1.7 | 1.9 | 1.8 | 1.6 | 1.3 | 1.6 | +0.3 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 4.5 | 5.7 | 7.0 | 8.9 | 7.6 | 6.7 | 7.4 | 7.1 | 4.8 | 6.8 | 6.7 | 6.9 | 7.7 | 6.8 | 4.7 | 5.3 | 4.3 | 3.2 | 4.4 | 3.3 | 3.8 | +0.5 |
| Complete 4 years | 2.9 | 3.5 | 4.1 | 3.5 | 5.2 | 3.7 | 3.4 | 3.4 | 3.8 | 3.9 | 3.9 | 4.7 | 3.6 | 3.1 | 2.5 | 2.1 | 2.2 | 2.0 | 1.8 | 2.1 | 1.7 | -0.5 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 4.2 | 5.2 | 5.9 | 4.7 | 4.1 | 3.7 | 4.4 | 4.3 | 5.3 | 4.4 | 4.3 | 6.2 | 5.3 | 4.4 | 2.7 | 3.3 | 2.9 | 1.8 | 2.4 | 2.2 | 1.9 | -0.3 |
| Midwest | 2.7 | 3.2 | 4.1 | 5.3 | 5.7 | 4.5 | 5.6 | 4.8 | 3.2 | 3.9 | 4.2 | 3.6 | 4.4 | 3.4 | 3.5 | 2.2 | 2.6 | 1.7 | 1.7 | 2.0 | 1.9 | -0.1 |
| South | 3.1 | 4.2 | 4.6 | 4.9 | 6.6 | 4.0 | 3.9 | 4.4 | 4.1 | 4.9 | 4.7 | 5.8 | 4.5 | 4.2 | 2.7 | 1.9 | 2.4 | 2.5 | 2.1 | 2.5 | 1.6 | -0.9 s |
| West | 4.0 | 4.5 | 6.2 | 4.4 | 6.1 | 5.9 | 3.5 | 3.9 | 4.7 | 5.8 | 4.7 | 5.1 | 3.8 | 4.1 | 2.9 | 3.6 | 2.9 | 3.3 | 3.5 | 2.7 | 3.5 | +0.8 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 3.7 | 3.9 | 4.2 | 4.8 | 4.8 | 3.7 | 4.1 | 3.5 | 3.0 | 3.9 | 4.6 | 7.2 | 4.3 | 4.1 | 2.8 | 2.8 | 2.6 | 2.6 | 2.1 | 2.0 | 2.4 | +0.5 |
| Other MSA | 3.3 | 4.4 | 5.2 | 4.9 | 6.0 | 4.5 | 4.3 | 4.7 | 5.3 | 5.4 | 4.7 | 4.4 | 4.6 | 3.9 | 3.0 | 3.0 | 2.7 | 2.6 | 2.7 | 2.9 | 2.0 | -0.8 |
| Non-MSA | 3.1 | 4.2 | 5.6 | 4.9 | 6.7 | 5.4 | 5.0 | 4.9 | 3.9 | 4.2 | 4.0 | 3.8 | 4.6 | 4.2 | 3.2 | 1.5 | 2.5 | 1.5 | 1.9 | 1.9 | 1.9 | +0.1 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 2.9 | 5.2 | 6.4 | 5.5 | 7.4 | 5.4 | 3.7 | 5.1 | 4.1 | 6.3 | 4.1 | 4.6 | 5.2 | 3.0 | 3.8 | 3.0 | 3.2 | 3.5 | 3.3 | 1.7 | 3.1 | +1.4 |
| 2.5-3.0 | 3.4 | 3.8 | 4.9 | 5.3 | 5.0 | 3.8 | 5.6 | 4.7 | 3.4 | 3.6 | 5.5 | 5.5 | 5.0 | 3.8 | 3.2 | 2.6 | 2.6 | 2.4 | 3.1 | 3.1 | 2.3 | -0.8 |
| 3.5-4.0 | 3.6 | 4.6 | 4.9 | 5.3 | 6.9 | 4.7 | 4.7 | 4.9 | 4.6 | 5.1 | 4.7 | 5.2 | 4.5 | 4.6 | 2.5 | 2.9 | 2.9 | 2.4 | 2.7 | 2.3 | 2.1 | -0.2 |
| 4.5-5.0 | 3.2 | 3.9 | 4.4 | 4.2 | 5.5 | 4.5 | 3.9 | 3.4 | 4.3 | 5.1 | 4.2 | 4.6 | 4.3 | 3.5 | 2.9 | 2.1 | 2.2 | 1.9 | 1.4 | 2.2 | 1.8 | -0.4 |
| 5.5-6.0 (High) | 2.7 | 3.8 | 4.8 | 3.5 | 3.6 | 4.2 | 2.2 | 3.9 | 3.8 | 3.7 | 3.7 | 5.9 | 3.7 | 4.2 | 2.6 | 2.6 | 2.5 | 2.2 | 1.9 | 2.6 | 1.9 | -0.7 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 3.3 | 3.9 | 5.0 | 5.6 | 6.0 | 5.7 | 5.0 | 5.1 | 4.9 | 4.8 | 4.9 | 5.2 | 5.5 | 5.2 | 4.3 | 3.2 | 3.0 | 2.8 | 2.3 | 2.0 | 2.0 | 0.0 |
| African American | 0.8 | 0.7 | 0.7 | 0.6 | 0.8 | 1.0 | 0.9 | 0.8 | 1.0 | 1.1 | 1.2 | 1.4 | 1.2 | 0.7 | 0.6 | 0.7 | 0.7 | 0.8 | 1.0 | 1.5 | 1.4 | -0.1 |
| Hispanic | 4.0 | 5.6 | 6.9 | 6.0 | 5.8 | 6.6 | 5.8 | 4.7 | 3.9 | 4.8 | 5.8 | 5.7 | 4.8 | 3.7 | 3.1 | 2.5 | 2.5 | 3.1 | 3.6 | 3.4 | 3.0 | -0.4 |

Source. The Monitoring the Future study, the University of Michigan
Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01, \mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one form in 1987-1989; $N$ is one fifth of $N$ indicated in 1987-1988 and one sixth of $N$ indicated in 1989 in Table S3. Data based on four of six forms beginning in 1990; $N$ is four sixths of $N$ indicated in Table S3.

${ }^{\text {Th }}$ derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how
race/ethnicity is defined.

## TABLE 45

HEROIN: Trends in Annual Prevalence of Use by Subgroups in Grade 8

Percentage who used in last 12 months
2014-



| Total | 0.7 | 0.7 | 0.7 | 1.2 | 1.4 | 1.6 | 1.3 | 1.3 | 1.4 | 1.1 | 1.0 | 0.9 | 0.9 | 1.0 | 0.8 | 0.8 | 0.8 | 0.9 | 0.7 | 0.8 | 0.7 | 0.5 | 0.5 | 0.5 | 0.3 | -0.2 ss |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 0.9 | 0.8 | 0.8 | 1.3 | 1.6 | 1.5 | 1.4 | 1.5 | 1.4 | 1.0 | 1.0 | 0.8 | 0.8 | 0.9 | 0.8 | 0.6 | 0.8 | 0.9 | 0.8 | 0.9 | 0.7 | 0.5 | 0.4 | 0.6 | 0.2 | -0.3 s |
| Female | 0.5 | 0.7 | 0.5 | 0.9 | 1.2 | 1.5 | 1.1 | 1.1 | 1.3 | 1.2 | 1.0 | 1.0 | 0.9 | 1.0 | 0.8 | 0.9 | 0.9 | 0.7 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.4 | 0.3 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 2.1 | 2.7 | 2.0 | 3.9 | 4.4 | 4.1 | 3.4 | 5.0 | 3.7 | 3.5 | 3.1 | 2.9 | 3.1 | 4.2 | 2.3 | 3.0 | 3.7 | 3.5 | 3.5 | 2.3 | 3.1 | 1.8 | 2.1 | 2.2 | 0.6 | -1.6 s |
| Complete 4 years | 0.4 | 0.4 | 0.5 | 0.7 | 1.0 | 1.1 | 1.1 | 0.9 | 1.1 | 0.8 | 0.8 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.6 | 0.5 | 0.7 | 0.5 | 0.4 | 0.4 | 0.3 | 0.2 | -0.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 0.5 | 0.6 | 0.7 | 1.3 | 1.4 | 1.8 | 1.1 | 1.1 | 1.3 | 1.1 | 1.1 | 0.8 | 0.7 | 1.1 | 0.7 | 0.4 | 0.5 | 0.7 | 0.4 | 0.6 | 0.6 | 0.4 | 0.3 | 0.3 | 0.1 | -0.2 |
| Midwest | 0.4 | 0.8 | 0.5 | 1.1 | 1.4 | 1.6 | 1.4 | 1.3 | 1.6 | 1.4 | 1.0 | 1.0 | 1.0 | 0.8 | 0.5 | 0.7 | 0.8 | 1.0 | 0.7 | 0.8 | 0.8 | 0.4 | 0.4 | 0.5 | 0.3 | -0.2 |
| South | 0.8 | 0.7 | 0.7 | 1.1 | 1.5 | 1.4 | 1.2 | 1.4 | 1.4 | 0.7 | 1.2 | 1.0 | 1.0 | 0.9 | 1.0 | 0.9 | 0.8 | 0.8 | 0.6 | 0.8 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | -0.1 |
| West | 1.0 | 0.7 | 1.1 | 1.1 | 1.2 | 1.6 | 1.4 | 1.3 | 1.2 | 1.4 | 0.7 | 1.0 | 0.9 | 1.2 | 0.8 | 0.9 | 1.0 | 0.9 | 1.2 | 0.9 | 0.8 | 0.5 | 0.6 | 0.8 | 0.1 | -0.6 ss |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 0.5 | 0.7 | 0.7 | 1.2 | 1.2 | 1.4 | 1.0 | 1.0 | 1.3 | 1.0 | 0.9 | 0.7 | 0.8 | 1.2 | 0.6 | 0.7 | 0.5 | 1.2 | 0.6 | 0.7 | 0.6 | 0.6 | 0.5 | 0.6 | 0.2 | -0.4 ss |
| Other MSA | 0.7 | 0.8 | 0.9 | 1.2 | 1.5 | 1.7 | 1.3 | 1.3 | 1.4 | 1.1 | 1.0 | 1.0 | 0.9 | 1.0 | 0.8 | 0.9 | 0.9 | 0.8 | 0.8 | 0.9 | 0.8 | 0.5 | 0.6 | 0.4 | 0.2 | -0.2 |
| Non-MSA | 0.8 | 0.7 | 0.4 | 1.0 | 1.5 | 1.5 | 1.5 | 1.6 | 1.5 | 1.0 | 1.1 | 1.1 | 1.2 | 0.6 | 1.0 | 0.8 | 1.0 | 0.6 | 0.7 | 0.7 | 0.7 | 0.3 | 0.4 | 0.5 | 0.5 | 0.0 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 1.5 | 1.4 | 0.8 | 2.0 | 2.6 | 2.0 | 2.3 | 3.5 | 2.8 | 1.7 | 2.6 | 1.2 | 2.1 | 1.9 | 0.5 | 1.8 | 1.9 | 2.3 | 2.0 | 1.4 | 1.4 | 0.9 | 1.2 | 1.1 | 0.3 | -0.8 s |
| 2.5-3.0 | 0.9 | 0.7 | 0.6 | 1.1 | 1.0 | 1.7 | 1.4 | 1.2 | 1.4 | 1.5 | 1.1 | 1.3 | 1.0 | 1.1 | 1.3 | 0.8 | 0.8 | 1.0 | 0.8 | 1.0 | 1.3 | 0.8 | 0.6 | 0.4 | 0.2 | -0.2 |
| 3.5-4.0 | 0.6 | 0.6 | 0.7 | 1.3 | 1.6 | 1.7 | 1.0 | 1.1 | 1.2 | 0.7 | 1.0 | 0.9 | 0.8 | 1.0 | 1.0 | 0.8 | 0.6 | 0.7 | 0.6 | 0.8 | 0.6 | 0.8 | 0.5 | 0.4 | 0.2 | -0.2 |
| 4.5-5.0 | 0.4 | 0.5 | 0.8 | 0.8 | 1.2 | 1.4 | 1.1 | 1.1 | 1.1 | 0.8 | 0.6 | 0.8 | 0.6 | 0.7 | 0.5 | 0.6 | 0.9 | 0.4 | 0.5 | 0.5 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.0 |
| 5.5-6.0 (High) | 0.5 | 0.8 | 0.6 | 1.3 | 1.6 | 1.0 | 1.5 | 1.4 | 1.8 | 1.0 | 0.8 | 0.6 | 0.7 | 0.6 | 0.4 | 0.4 | 0.4 | 1.2 | 0.6 | 0.8 | 0.5 | 0.3 | 0.5 | 0.5 | 0.1 | -0.4 |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 0.6 | 0.6 | 0.8 | 1.2 | 1.6 | 1.6 | 1.3 | 1.2 | 1.2 | 1.0 | 1.0 | 0.9 | 0.9 | 0.8 | 0.7 | 0.7 | 0.8 | 0.7 | 0.6 | 0.6 | 0.5 | 0.4 | 0.4 | 0.3 | -0.1 |
| African American | - | 0.4 | 0.3 | 0.6 | 0.7 | 0.5 | 0.4 | 0.5 | 0.7 | 0.5 | 0.6 | 0.6 | 0.5 | 0.7 | 0.5 | 0.4 | 0.4 | 0.4 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.4 | 0.2 | -0.1 s |
| Hispanic | - | 1.4 | 1.4 | 1.5 | 1.8 | 2.1 | 1.7 | 1.7 | 2.2 | 2.0 | 1.4 | 1.2 | 1.4 | 1.7 | 1.5 | 1.1 | 1.2 | 1.3 | 1.2 | 1.3 | 1.4 | 1.0 | 0.7 | 0.6 | 0.3 | -0.3 ss |

Source. The Monitoring the Future study, the University of Michigan.
 See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.
 a needle were dropped in one form; data based on three of four forms; $N$ is two thirds of $N$ indicated.
${ }^{\mathrm{b}}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\text {c }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

## TABLE 46

## HEROIN: Trends in Annual Prevalence of Use by Subgroups in Grade 10

Percentage who used in last 12 months
2014-
$\underline{19} 1 \underline{1992} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995}^{\text {a }} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015^{\mathrm{a}}} \quad \underline{\text { change }}$


| Total | 0.5 | 0.6 | 0.7 | 0.9 | 1.1 | 1.2 | 1.4 | 1.4 | 1.4 | 1.4 | 0.9 | 1.1 | 0.7 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.9 | 0.8 | 0.8 | 0.6 | 0.6 | 0.5 | 0.5 | -0.1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 0.7 | 0.8 | 0.9 | 1.0 | 1.3 | 1.5 | 1.6 | 1.7 | 1.7 | 1.5 | 1.0 | 1.3 | 0.8 | 1.0 | 1.1 | 0.9 | 0.9 | 1.0 | 1.1 | 0.9 | 0.9 | 0.6 | 0.9 | 0.5 | 0.4 | -0.1 |
| Female | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.9 | 1.3 | 1.1 | 1.2 | 1.2 | 0.8 | 0.8 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.6 | 0.6 | 0.7 | 0.6 | 0.6 | 0.4 | 0.5 | 0.4 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 1.4 | 1.4 | 1.9 | 2.0 | 2.2 | 2.4 | 2.9 | 2.7 | 3.4 | 3.8 | 2.5 | 2.7 | 2.0 | 2.8 | 3.2 | 2.7 | 2.0 | 2.5 | 2.9 | 2.8 | 2.6 | 2.5 | 2.0 | 1.9 | 1.3 | -0.5 |
| Complete 4 years | 0.3 | 0.4 | 0.4 | 0.7 | 0.9 | 1.0 | 1.2 | 1.2 | 1.1 | 1.0 | 0.7 | 0.8 | 0.5 | 0.6 | 0.6 | 0.6 | 0.7 | 0.6 | 0.7 | 0.6 | 0.6 | 0.4 | 0.5 | 0.4 | 0.3 | -0.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 0.4 | 0.6 | 0.6 | 0.6 | 0.9 | 0.9 | 1.3 | 1.8 | 1.9 | 1.5 | 1.0 | 0.9 | 0.6 | 1.1 | 1.3 | 0.9 | 1.1 | 0.7 | 0.9 | 0.8 | 0.9 | 0.6 | 0.5 | 0.2 | 0.6 | +0.4 |
| Midwest | 0.6 | 0.6 | 0.8 | 0.9 | 1.0 | 1.5 | 1.5 | 1.4 | 1.3 | 1.6 | 1.1 | 1.2 | 0.7 | 0.7 | 1.0 | 0.9 | 0.7 | 1.0 | 1.1 | 0.8 | 0.5 | 0.6 | 0.5 | 0.4 | 0.4 | 0.0 |
| South | 0.6 | 0.5 | 0.6 | 1.0 | 1.3 | 1.4 | 1.5 | 1.3 | 1.4 | 1.5 | 0.9 | 0.8 | 0.9 | 1.0 | 0.8 | 0.9 | 0.8 | 0.9 | 0.8 | 0.8 | 0.9 | 0.6 | 0.5 | 0.8 | 0.5 | -0.3 |
| West | 0.4 | 0.8 | 0.5 | 1.2 | 1.0 | 1.0 | 1.3 | 1.1 | 1.1 | 0.7 | 0.7 | 1.4 | 0.7 | 0.8 | 0.8 | 0.7 | 0.9 | 0.7 | 1.0 | 0.8 | 0.7 | 0.6 | 0.9 | 0.5 | 0.4 | -0.1 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 0.6 | 0.6 | 0.7 | 0.8 | 1.0 | 1.1 | 1.6 | 1.2 | 1.2 | 1.8 | 0.9 | 0.9 | 0.6 | 0.9 | 0.8 | 0.7 | 0.9 | 0.6 | 0.8 | 0.8 | 0.7 | 0.7 | 0.5 | 0.4 | 0.4 | 0.0 |
| Other MSA | 0.5 | 0.6 | 0.6 | 0.9 | 1.0 | 1.3 | 1.3 | 1.5 | 1.4 | 1.2 | 1.0 | 1.0 | 0.8 | 0.9 | 1.0 | 0.9 | 0.8 | 0.8 | 1.2 | 0.8 | 0.8 | 0.4 | 0.8 | 0.4 | 0.3 | 0.0 |
| Non-MSA | 0.4 | 0.6 | 0.7 | 1.0 | 1.3 | 1.2 | 1.6 | 1.5 | 1.6 | 1.2 | 0.9 | 1.4 | 0.9 | 0.7 | 0.9 | 1.0 | 0.7 | 1.1 | 0.5 | 0.9 | 0.8 | 0.9 | 0.5 | 1.1 | 0.8 | -0.3 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 0.4 | 0.5 | 1.2 | 1.3 | 1.8 | 1.0 | 1.3 | 1.7 | 2.4 | 1.3 | 1.1 | 2.0 | 1.1 | 1.5 | 1.7 | 1.4 | 1.8 | 1.9 | 1.5 | 1.3 | 0.9 | 1.7 | 0.8 | 0.5 | 1.1 | +0.6 |
| 2.5-3.0 | 0.8 | 0.7 | 0.7 | 0.8 | 1.0 | 1.2 | 1.3 | 1.2 | 1.5 | 1.7 | 1.3 | 0.8 | 0.8 | 1.0 | 1.2 | 0.9 | 0.8 | 0.5 | 1.1 | 0.6 | 1.0 | 0.8 | 0.9 | 0.7 | 0.5 | -0.2 |
| 3.5-4.0 | 0.5 | 0.6 | 0.8 | 0.9 | 1.2 | 1.3 | 1.6 | 1.6 | 1.2 | 1.5 | 0.6 | 1.1 | 0.7 | 0.8 | 0.8 | 0.6 | 0.8 | 1.1 | 1.2 | 0.7 | 0.8 | 0.5 | 0.4 | 0.6 | 0.4 | -0.2 |
| 4.5-5.0 | 0.4 | 0.5 | 0.3 | 0.9 | 0.9 | 1.1 | 1.5 | 1.3 | 1.4 | 1.3 | 0.8 | 0.7 | 0.6 | 0.7 | 0.8 | 0.7 | 0.7 | 0.6 | 0.6 | 0.9 | 0.5 | 0.5 | 0.5 | 0.4 | 0.3 | -0.1 |
| 5.5-6.0 (High) | 0.4 | 0.5 | 0.8 | 0.9 | 0.9 | 1.5 | 1.1 | 1.3 | 1.2 | 1.1 | 0.9 | 1.6 | 0.3 | 0.5 | 0.6 | 1.2 | 0.5 | 0.6 | 0.6 | 0.8 | 0.5 | 0.3 | 0.9 | 0.5 | 0.4 | -0.1 |
| Race/Ethnicity (2-year average): c |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 0.6 | 0.7 | 0.8 | 1.0 | 1.2 | 1.4 | 1.4 | 1.5 | 1.5 | 1.2 | 1.0 | 0.9 | 0.8 | 0.9 | 1.0 | 0.8 | 0.7 | 0.8 | 0.8 | 0.7 | 0.6 | 0.5 | 0.6 | 0.5 | -0.1 |
| African American | - | 0.3 | 0.4 | 0.6 | 0.6 | 0.2 | 0.2 | 0.4 | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 | 0.4 | 0.6 | 0.6 | 0.4 | 0.5 | 0.4 | 0.4 | 0.8 | 0.8 | 0.7 | 0.6 | 0.5 | -0.1 |
| Hispanic | - | 0.7 | 0.7 | 0.7 | 1.0 | 1.0 | 1.3 | 1.6 | 1.7 | 1.4 | 1.4 | 1.1 | 1.1 | 1.2 | 1.2 | 1.2 | 1.0 | 1.0 | 1.1 | 1.0 | 0.9 | 1.0 | 1.0 | 0.7 | 0.5 | -0.2 |

Hispanic $-\quad 0.7 \frac{0.7}{\text { Source. The Monitoring the Future study, the University of Michigan. }}$
 See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table
 a needle were dropped in one form; data based on three of four forms; $N$ is two thirds of $N$ indicated.
Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{c}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 47
HEROIN: Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 |  | cont.) |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | 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 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1.2 | 1.0 | 1.2 | 1.1 | 0.6 | 0.6 | 0.6 | 0.8 | 0.7 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 | 0.9 | 0.6 | 0.6 | 0.8 | 0.7 | 0.8 |  |
| Female | 0.8 | 0.5 | 0.4 | 0.6 | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 0.9 | 1.1 | 1.0 | 0.7 | 0.6 | 0.5 | 0.7 | 0.9 | 0.6 | 0.7 | 0.8 | 0.5 | 0.8 | 0.9 | 0.6 | 0.5 | 0.9 | 1.0 | 1.1 |  |
| Complete 4 years | - | 0.6 | 0.5 | 0.6 | 0.3 | 0.3 | 0.5 | 0.4 | 0.3 | 0.4 | 0.5 | 0.4 | 0.4 | 0.3 | 0.5 | 0.4 | 0.4 | 0.5 | 0.4 | 0.5 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 1.1 | 0.7 | 0.7 | 0.6 | 0.6 | 0.5 | 0.5 | 0.9 | 0.6 | 0.6 | 0.8 | 0.7 | 0.6 | 0.5 | 0.9 | 0.8 | 0.2 | 0.5 | 0.9 | 0.7 |  |
| Midwest | 1.3 | 1.0 | 1.0 | 0.8 | 0.5 | 0.7 | 0.6 | 0.5 | 0.4 | 0.6 | 0.6 | 0.4 | 0.6 | 0.3 | 0.6 | 0.3 | 0.8 | 0.6 | 0.5 | 0.9 |  |
| South | 0.9 | 0.7 | 0.9 | 1.1 | 0.6 | 0.3 | 0.5 | 0.5 | 0.7 | 0.5 | 0.6 | 0.5 | 0.4 | 0.5 | 0.6 | 0.5 | 0.4 | 0.6 | 0.4 | 0.6 |  |
| West | 0.7 | 0.6 | 0.5 | 0.8 | 0.2 | 0.4 | 0.5 | 0.3 | 0.5 | 0.4 | 0.3 | 0.5 | 0.5 | 0.7 | 0.7 | 0.3 | 0.3 | 0.8 | 0.5 | 0.4 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 1.3 | 1.0 | 0.5 | 0.7 | 0.4 | 0.3 | 0.3 | 0.7 | 0.6 | 0.6 | 0.7 | 0.7 | 0.3 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 | 0.6 | 0.4 |  |
| Other MSA | 0.9 | 1.0 | 0.8 | 0.8 | 0.6 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.7 | 0.4 | 0.6 | 0.5 | 0.7 | 0.5 | 0.4 | 0.7 | 0.5 | 0.8 |  |
| Non-MSA | 1.0 | 0.4 | 1.1 | 1.0 | 0.5 | 0.6 | 0.7 | 0.6 | 0.7 | 0.7 | 0.4 | 0.5 | 0.5 | 0.5 | 0.8 | 0.5 | 0.6 | 0.7 | 0.5 | 0.5 |  |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 1.2 | 0.8 | 0.8 | 0.8 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.8 | 0.9 | 0.5 | 0.5 | 0.9 | 0.8 | 0.5 | 0.7 | 0.3 | 0.9 |  |
| 2.5-3.0 | 0.8 | 0.9 | 0.8 | 0.9 | 0.5 | 0.6 | 0.6 | 0.7 | 0.6 | 0.5 | 0.5 | 0.4 | 0.4 | 0.7 | 0.7 | 0.4 | 0.4 | 0.6 | 0.4 | 0.8 |  |
| 3.5-4.0 | 0.6 | 0.8 | 0.9 | 0.7 | 0.4 | 0.4 | 0.5 | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.4 | 0.6 | 0.4 | 0.4 | 0.6 | 0.6 | 0.4 |  |
| 4.5-5.0 | 1.2 | 1.4 | 0.6 | 0.9 | 0.6 | 0.4 | 0.3 | 0.6 | 0.4 | 0.4 | 0.7 | 0.3 | 0.3 | 0.3 | 0.6 | 0.4 | 0.6 | 0.7 | 0.7 | 0.3 |  |
| 5.5-6.0 (High) | 1.2 | 0.6 | 1.1 | 1.0 | 0.8 | 0.4 | 0.7 | 1.1 | 0.8 | 0.5 | 0.6 | 0.5 | 0.7 | 0.4 | 0.4 | 0.5 | 0.5 | 0.3 | 0.4 | 0.9 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 0.8 | 0.8 | 0.6 | 0.5 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.5 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 |  |
| African American | - | - | 0.6 | 0.6 | 0.5 | 0.5 | 0.6 | 0.7 | 0.6 | 0.4 | 0.5 | 0.5 | 0.5 | 0.7 | 0.6 | 0.3 | 0.2 | 0.5 | 0.4 | 0.3 |  |
| Hispanic | - | - | 1.2 | 2.0 | 1.7 | 0.4 | 0.3 | 0.4 | 0.6 | 1.1 | 1.0 | 0.9 | 0.9 | 0.5 | 0.5 | 0.6 | 0.6 | 0.9 | 0.7 | 0.5 |  |

[^11]
## TABLE 47 (cont.)

## HEROIN: Trends in Annual Prevalence of Use by Subgroups in Grade 12



## TABLE 48

HEROIN WITH A NEEDLE: Trends in Annual Prevalence of Use by Subgroups in Grade 8

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1991- \\ 1994 \end{gathered}$ | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | $\begin{gathered} 2015 \\ \text { change } \end{gathered}$ |
| Approximate weighted $N=$ | - | 17,500 | 17,800 | 18,600 | 18,100 | 16,700 | 16,700 | 16,200 | 15,100 | 16,500 | 17,000 | 16,800 | 16,500 | 16,100 | 15,700 | 15,000 | 15,300 | 16,000 | 15,100 | 14,600 | 14,600 | 14,400 |  |
| Total | - | 0.9 | 1.0 | 0.8 | 0.8 | 0.9 | 0.6 | 0.7 | 0.6 | 0.6 | 0.7 | 0.6 | 0.5 | 0.6 | 0.5 | 0.5 | 0.6 | 0.5 | 0.4 | 0.3 | 0.4 | 0.2 | -0.2 ss |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 1.2 | 1.0 | 0.8 | 1.0 | 1.0 | 0.7 | 0.7 | 0.6 | 0.7 | 0.7 | 0.6 | 0.4 | 0.5 | 0.6 | 0.6 | 0.6 | 0.5 | 0.4 | 0.2 | 0.5 | 0.2 | -0.3 ss |
| Female | - | 0.5 | 1.0 | 0.7 | 0.7 | 0.8 | 0.6 | 0.7 | 0.6 | 0.5 | 0.7 | 0.6 | 0.6 | 0.5 | 0.4 | 0.5 | 0.5 | 0.4 | 0.3 | 0.4 | 0.3 | 0.2 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 3.2 | 3.1 | 2.0 | 3.1 | 2.2 | 2.1 | 2.2 | 1.9 | 2.0 | 3.1 | 1.5 | 2.1 | 2.7 | 2.1 | 2.6 | 1.3 | 2.1 | 1.3 | 1.8 | 2.2 | 0.6 | -1.5 s |
| Complete 4 years | - | 0.6 | 0.7 | 0.6 | 0.6 | 0.7 | 0.5 | 0.6 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.5 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | -0.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 0.8 | 1.3 | 0.5 | 0.6 | 1.0 | 0.8 | 0.9 | 0.6 | 0.4 | 0.7 | 0.4 | 0.3 | 0.4 | 0.5 | 0.3 | 0.5 | 0.5 | 0.3 | 0.2 | 0.2 | 0.1 | -0.1 |
| Midwest | - | 0.9 | 1.1 | 0.7 | 0.9 | 1.2 | 0.9 | 0.7 | 0.8 | 0.6 | 0.6 | 0.3 | 0.4 | 0.6 | 0.5 | 0.5 | 0.6 | 0.3 | 0.3 | 0.3 | 0.4 | 0.2 | -0.2 |
| South | - | 0.8 | 0.9 | 0.8 | 1.0 | 0.9 | 0.3 | 0.9 | 0.6 | 0.7 | 0.6 | 0.8 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.4 | 0.5 | 0.4 | 0.3 | 0.3 | -0.1 |
| West | - | 1.0 | 1.0 | 1.0 | 0.8 | 0.7 | 0.8 | 0.3 | 0.6 | 0.7 | 0.9 | 0.6 | 0.7 | 0.6 | 0.6 | 0.9 | 0.7 | 0.6 | 0.3 | 0.3 | 0.7 | 0.1 | -0.5 ss |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 0.9 | 0.7 | 0.6 | 0.8 | 0.8 | 0.7 | 0.7 | 0.4 | 0.5 | 1.0 | 0.3 | 0.5 | 0.3 | 0.7 | 0.5 | 0.6 | 0.4 | 0.4 | 0.2 | 0.5 | 0.2 | -0.3 |
| Other MSA | - | 0.9 | 1.2 | 0.8 | 0.8 | 0.9 | 0.6 | 0.6 | 0.7 | 0.6 | 0.7 | 0.7 | 0.6 | 0.6 | 0.5 | 0.6 | 0.7 | 0.5 | 0.4 | 0.4 | 0.4 | 0.2 | -0.2 |
| Non-MSA | - | 0.9 | 1.1 | 0.9 | 1.1 | 1.1 | 0.7 | 1.0 | 0.8 | 0.9 | 0.5 | 0.7 | 0.4 | 0.7 | 0.3 | 0.5 | 0.3 | 0.4 | 0.2 | 0.2 | 0.4 | 0.3 | -0.1 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 1.3 | 0.9 | 1.5 | 2.3 | 2.0 | 1.2 | 2.0 | 1.1 | 1.6 | 1.6 | 0.3 | 1.4 | 1.3 | 1.6 | 1.6 | 0.6 | 1.0 | 0.6 | 0.8 | 0.9 | 0.3 | -0.6 |
| 2.5-3.0 | - | 0.5 | 1.2 | 0.8 | 0.8 | 0.9 | 0.5 | 0.7 | 0.9 | 0.6 | 0.8 | 1.0 | 0.5 | 0.6 | 0.5 | 0.5 | 0.7 | 0.9 | 0.5 | 0.4 | 0.3 | 0.1 | -0.1 |
| 3.5-4.0 | - | 0.8 | 1.2 | 0.6 | 0.6 | 0.9 | 0.4 | 0.6 | 0.6 | 0.4 | 0.7 | 0.7 | 0.4 | 0.3 | 0.4 | 0.3 | 0.6 | 0.4 | 0.7 | 0.3 | 0.3 | 0.1 | -0.2 |
| 4.5-5.0 | - | 1.0 | 0.8 | 0.7 | 0.7 | 0.5 | 0.4 | 0.5 | 0.5 | 0.5 | 0.6 | 0.3 | 0.4 | 0.6 | 0.3 | 0.4 | 0.4 | 0.2 | 0.1 | 0.2 | 0.3 | 0.2 | -0.1 |
| 5.5-6.0 (High) | - | 1.0 | 0.6 | 0.9 | 0.9 | 1.2 | 0.9 | 0.7 | 0.4 | 0.5 | 0.5 | 0.3 | 0.2 | 0.3 | 0.7 | 0.5 | 0.6 | 0.4 | 0.2 | 0.3 | 0.4 | 0.1 | -0.3 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 1.1 | 1.0 | 0.7 | 0.8 | 0.7 | 0.6 | 0.7 | 0.6 | 0.6 | 0.5 | 0.4 | 0.5 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.0 |
| African American | - | - | 0.3 | 0.2 | 0.3 | 0.4 | 0.3 | 0.5 | 0.5 | 0.4 | 0.5 | 0.4 | 0.3 | 0.2 | 0.2 | 0.5 | 0.6 | 0.4 | 0.4 | 0.5 | 0.4 | 0.2 | -0.1 |
| Hispanic | - | - | 1.1 | 1.0 | 1.1 | 1.5 | 1.2 | 0.8 | 0.7 | 0.9 | 1.3 | 1.1 | 0.9 | 0.9 | 1.0 | 0.9 | 1.0 | 1.1 | 0.7 | 0.4 | 0.4 | 0.2 | -0.2 s |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  <br>  beginning in 1996. In 2015 Heroin use with and without a needle were dropped in one form; data based on three of four forms; N is two thirds of N indicated. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {a }}$ Parental education is an average score ${ }^{\text {b }}$ To derive percentages for each racial sub is defined. | mother's | education ta for the | nand fath specified | er's educ year and | ation. See the previo | appendix <br> us year h | B for det ave been | ails. <br> combined | to increa | se subgro | p sample | sizes an | d thus pro | vide more | stable est | imates. S | ee append | dix B for d | etails on | how race/e | thnicity |  |  |

# TABLE 49 

## HEROIN WITH A NEEDLE: Trends in Annual Prevalence of Use by Subgroups in Grade 10

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1991- \\ \underline{1994} \end{gathered}$ | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | - | 17,000 | 15,600 | 15,500 | 15,000 | 13,600 | 14,300 | 14,000 | 14,300 | 15,800 | 16,400 | 16,200 | 16,200 | 16,100 | 15,100 | 15,900 | 15,200 | 14,900 | 15,000 | 12,900 | 13,000 | 15,600 |  |
| Total | - | 0.6 | 0.7 | 0.7 | 0.8 | 0.6 | 0.5 | 0.4 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.5 | 0.5 | 0.4 | 0.5 | 0.4 | 0.2 | -0.2 s |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 0.8 | 0.8 | 0.9 | 1.0 | 0.8 | 0.6 | 0.5 | 0.6 | 0.5 | 0.6 | 0.6 | 0.6 | 0.5 | 0.6 | 0.8 | 0.5 | 0.6 | 0.5 | 0.6 | 0.4 | 0.2 | -0.2 |
| Female | - | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.4 | 0.3 | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.5 | 0.4 | 0.3 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 | 0.2 | -0.2 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 1.6 | 1.4 | 1.5 | 1.6 | 1.7 | 1.7 | 1.4 | 1.5 | 1.4 | 1.6 | 1.6 | 1.3 | 1.3 | 1.7 | 2.1 | 1.7 | 1.6 | 1.6 | 1.1 | 1.7 | 0.5 | -1.2 |
| Complete 4 years | - | 0.4 | 0.5 | 0.6 | 0.6 | 0.5 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.2 | -0.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 0.5 | 0.3 | 0.6 | 0.8 | 0.7 | 0.5 | 0.5 | 0.4 | 0.4 | 0.5 | 0.6 | 0.6 | 0.6 | 0.4 | 0.8 | 0.5 | 0.4 | 0.3 | 0.4 | 0.2 | 0.3 | +0.1 |
| Midwest | - | 0.6 | 1.0 | 0.8 | 0.9 | 0.7 | 0.5 | 0.5 | 0.6 | 0.5 | 0.4 | 0.5 | 0.5 | 0.4 | 0.5 | 0.7 | 0.5 | 0.4 | 0.5 | 0.5 | 0.4 | 0.3 | -0.1 |
| South | - | 0.6 | 0.7 | 0.8 | 0.8 | 0.6 | 0.6 | 0.3 | 0.5 | 0.5 | 0.5 | 0.4 | 0.6 | 0.4 | 0.6 | 0.4 | 0.5 | 0.7 | 0.3 | 0.4 | 0.5 | 0.2 | -0.3 s |
| West | - | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.8 | 0.5 | 0.5 | 0.6 | 0.3 | 0.6 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.6 | 0.5 | 0.1 | -0.3 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 0.5 | 0.5 | 0.6 | 0.7 | 0.6 | 0.6 | 0.4 | 0.5 | 0.4 | 0.5 | 0.4 | 0.4 | 0.5 | 0.4 | 0.5 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.0 |
| Other MSA | - | 0.5 | 0.7 | 0.6 | 0.7 | 0.5 | 0.4 | 0.5 | 0.4 | 0.4 | 0.5 | 0.6 | 0.5 | 0.5 | 0.5 | 0.8 | 0.4 | 0.5 | 0.3 | 0.6 | 0.3 | 0.1 | -0.1 |
| Non-MSA | - | 0.8 | 0.8 | 1.1 | 1.0 | 1.0 | 0.6 | 0.4 | 1.0 | 0.6 | 0.3 | 0.5 | 0.7 | 0.4 | 0.7 | 0.4 | 0.6 | 0.6 | 0.5 | 0.4 | 1.0 | 0.4 | -0.7 s |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 1.6 | 0.6 | 0.7 | 1.3 | 1.2 | 1.0 | 0.5 | 1.2 | 0.8 | 1.0 | 1.4 | 1.0 | 1.3 | 1.7 | 1.0 | 0.9 | 0.6 | 1.2 | 0.4 | 0.5 | 0.4 | -0.1 |
| 2.5-3.0 | - | 0.5 | 0.8 | 0.6 | 0.6 | 0.7 | 0.8 | 0.7 | 0.3 | 0.4 | 0.5 | 0.6 | 0.5 | 0.5 | 0.2 | 0.7 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | -0.2 |
| 3.5-4.0 | - | 0.7 | 0.7 | 0.9 | 0.9 | 0.6 | 0.5 | 0.2 | 0.6 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.8 | 0.4 | 0.5 | 0.3 | 0.3 | 0.5 | 0.2 | -0.3 |
| 4.5-5.0 | - | 0.4 | 0.5 | 0.7 | 0.6 | 0.6 | 0.3 | 0.3 | 0.3 | 0.5 | 0.3 | 0.4 | 0.3 | 0.5 | 0.3 | 0.3 | 0.4 | 0.4 | 0.3 | 0.4 | 0.3 | 0.3 | -0.1 |
| 5.5-6.0 (High) | - | 0.3 | 0.6 | 0.7 | 0.8 | 0.6 | 0.3 | 0.5 | 1.1 | 0.2 | 0.3 | 0.3 | 1.0 | 0.2 | 0.3 | 0.4 | 0.7 | 0.2 | 0.3 | 0.7 | 0.3 | 0.1 | -0.2 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 0.6 | 0.7 | 0.7 | 0.6 | 0.5 | 0.4 | 0.5 | 0.5 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 | 0.3 | -0.1 |
| African American | - | - | 0.1 | 0.1 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 0.2 | 0.5 | 0.4 | 0.2 | 0.4 | 0.4 | 0.4 | 0.6 | 0.5 | 0.4 | 0.5 | 0.4 | -0.1 |
| Hispanic | - | - | 0.6 | 0.6 | 0.8 | 1.0 | 0.9 | 0.9 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.6 | 0.7 | 0.8 | 0.6 | 0.4 | 0.6 | 0.6 | 0.5 | 0.3 | -0.2 s |
|  <br>  beginning in 1996. In 2015 Heroin use with and without a needle were dropped in one form; data based on three of four forms; N is two thirds of N indicated. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {a }}$ Parental education is an average score ${ }^{\mathrm{b}}$ To derive percentages for each racial su is defined. | of mother bgroup, | s educatio ata for the | n and fath specified | her's educ year and | cation. See the previo | appendix <br> us year h | X $B$ for det have been | tails. combined | to increa | se subgro | up sampl | sizes an | d thus pro | vide more | stable es | stimates. | See appen | dix B for | details on | how race/ | ethnicity |  |  |

# TABLE 50 

## HEROIN WITH A NEEDLE: Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 1975- \\ & \underline{1994} \end{aligned}$ | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | - | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | - | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.4 | 0.4 | 0.3 | 0.7 | 0.6 | 0.4 | 0.4 | 0.5 | 0.3 | -0.2 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 0.7 | 0.9 | 0.9 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.7 | 0.5 | 0.6 | 0.4 | 1.0 | 0.8 | 0.5 | 0.5 | 0.8 | 0.4 | -0.4 |
| Female | - | 0.3 | 0.1 | 0.2 | 0.3 | 0.2 | 0.2 | 0.1 | 0.2 | 0.3 | 0.1 | 0.3 | 0.3 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.1 | 0.1 | 0.0 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 0.9 | 1.2 | 0.9 | 0.8 | 0.5 | 1.0 | 0.7 | 0.9 | 0.4 | 1.0 | 0.9 | 1.0 | 1.0 | 1.0 | 0.6 | 1.6 | 1.3 | 1.1 | 0.7 | 0.9 | 0.8 | -0.1 |
| Complete 4 years | - | 0.4 | 0.4 | 0.4 | 0.3 | 0.4 | 0.2 | 0.2 | 0.3 | 0.4 | 0.2 | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 0.4 | 0.5 | 0.3 | 0.2 | 0.4 | 0.2 | -0.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 0.4 | 0.6 | 0.6 | 0.7 | 0.3 | 0.2 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.8 | 0.7 | 0.3 | 0.3 | 0.6 | 0.8 | 0.6 | 0.3 | 0.7 | 0.0 | -0.7 s |
| Midwest | - | 0.5 | 0.4 | 0.8 | 0.4 | 0.5 | 0.4 | 0.2 | 0.6 | 0.3 | 0.2 | 0.7 | 0.1 | 0.1 | 0.3 | 0.3 | 0.8 | 0.4 | 0.6 | 0.3 | 0.7 | 0.6 | 0.0 |
| South | - | 0.4 | 0.6 | 0.3 | 0.5 | 0.4 | 0.8 | 0.1 | 0.3 | 0.6 | 0.4 | 0.4 | 0.6 | 0.4 | 0.3 | 0.2 | 0.8 | 0.5 | 0.2 | 0.4 | 0.3 | 0.3 | 0.0 |
| West | - | 0.8 | 0.5 | 0.5 | 0.1 | 0.3 | 0.1 | 0.4 | 0.2 | 0.2 | 0.5 | 0.3 | 0.3 | 0.2 | 0.5 | 0.3 | 0.4 | 1.0 | 0.4 | 0.5 | 0.5 | 0.4 | -0.2 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 0.6 | 0.7 | 0.3 | 0.3 | 0.4 | 0.8 | 0.4 | 0.5 | 0.5 | 0.6 | 0.4 | 0.7 | 0.6 | 0.2 | 0.5 | 0.7 | 0.8 | 0.5 | 0.3 | 0.4 | 0.5 | +0.1 |
| Other MSA | - | 0.4 | 0.5 | 0.6 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.6 | 0.4 | 0.2 | 0.5 | 0.2 | 0.6 | 0.7 | 0.4 | 0.4 | 0.6 | 0.2 | -0.4 |
| Non-MSA | - | 0.6 | 0.3 | 0.7 | 0.5 | 0.6 | 0.3 | 0.2 | 0.5 | 0.4 | 0.2 | 0.5 | 0.4 | 0.4 | 0.2 | 0.1 | 0.7 | 0.3 | 0.2 | 0.3 | 0.4 | 0.4 | 0.0 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 0.7 | 0.9 | 1.8 | 0.8 | 1.5 | 1.2 | 0.7 | 0.8 | 0.5 | 0.2 | 0.8 | 1.0 | 1.0 | 0.9 | 0.8 | 1.4 | 1.4 | 0.4 | 0.8 | 1.5 | 0.8 | -0.7 |
| 2.5-3.0 | - | 0.6 | 0.5 | 0.4 | 0.5 | 0.1 | 0.4 | 0.3 | 0.4 | 0.7 | 0.6 | 0.5 | 0.5 | 0.4 | 0.3 | 0.5 | 0.9 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | -0.1 |
| 3.5-4.0 | - | 0.2 | 0.3 | 0.3 | 0.4 | 0.5 | 0.2 | 0.1 | 0.5 | 0.3 | 0.3 | 0.4 | 0.5 | 0.2 | 0.4 | 0.2 | 0.5 | 0.8 | 0.3 | 0.2 | 0.3 | 0.2 | -0.1 |
| 4.5-5.0 | - | 0.5 | 0.7 | 0.6 | 0.4 | 0.3 | 0.4 | 0.4 | 0.2 | 0.4 | 0.4 | 0.3 | 0.2 | 0.2 | 0.3 | 0.1 | 0.5 | 0.4 | 0.5 | 0.3 | 0.6 | 0.4 | -0.3 |
| 5.5-6.0 (High) | - | 0.6 | 0.5 | 0.5 | 0.2 | 0.4 | 0.2 | 0.3 | 0.2 | 0.3 | 0.4 | 0.4 | 0.6 | 0.3 | 0.2 | 0.1 | 0.3 | 0.6 | 0.3 | 0.0 | 0.1 | 0.1 | 0.0 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 0.4 | 0.5 | 0.5 | 0.4 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.6 | 0.5 | 0.3 | 0.2 | 0.3 | +0.1 |
| African American | - | - | 0.2 | 0.5 | 0.4 | 0.2 | 0.5 | 0.4 | 0.2 | 0.4 | 0.5 | 0.6 | 0.7 | 0.4 | 0.3 | 0.3 | 0.7 | 0.9 | 0.5 | 0.5 | 0.8 | 0.6 | -0.2 |
| Hispanic | - | - | 1.0 | 0.7 | 0.5 | 0.6 | 1.0 | 0.6 | 0.4 | 0.6 | 0.7 | 0.8 | 0.9 | 0.7 | 0.4 | 0.3 | 0.5 | 0.6 | 0.2 | 0.3 | 0.6 | 0.7 | 0.0 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01$, $s s s=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S 3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on three of six forms; N is three sixths of N indicated in Table S 3 .
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{ }$To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity defined

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{array}{r} 2014- \\ 2015 \\ \text { change } \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1991- \\ \underline{1994} \end{gathered}$ | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | $\underline{2005}$ | 2006 | 2007 | 2008 | $\underline{2009}$ | 2010 | 2011 | 2012 | $\underline{2013}$ | 2014 | 2015 |  |
| Approximate weighted $N=$ | - | 17,500 | 17,800 | 18,600 | 18,100 | 16,700 | 16,700 | 16,200 | 15,100 | 16,500 | 17,000 | 16,800 | 16,500 | 16,100 | 15,700 | 15,000 | 15,300 | 16,000 | 15,100 | 14,600 | 14,600 | 14,400 |  |
| Total | - | 0.8 | 1.0 | 0.8 | 0.8 | 0.9 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.6 | 0.4 | 0.5 | 0.4 | 0.3 | 0.3 | 0.2 | 0.2 | 0.0 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 1.0 | 0.9 | 0.9 | 0.9 | 0.8 | 0.5 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.4 | 0.6 | 0.4 | 0.5 | 0.4 | 0.2 | 0.3 | 0.2 | 0.2 | 0.0 |
| Female | - | 0.6 | 0.9 | 0.7 | 0.8 | 0.8 | 0.8 | 0.6 | 0.7 | 0.6 | 0.7 | 0.5 | 0.6 | 0.5 | 0.6 | 0.4 | 0.5 | 0.5 | 0.3 | 0.3 | 0.2 | 0.2 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 3.2 | 2.1 | 2.2 | 3.4 | 2.7 | 2.4 | 1.9 | 1.7 | 2.3 | 2.5 | 1.6 | 2.3 | 1.9 | 2.6 | 1.9 | 1.8 | 1.8 | 1.1 | 1.3 | 0.5 | 0.4 | -0.1 |
| Complete 4 years | - | 0.5 | 0.7 | 0.7 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.4 | 0.2 | 0.4 | 0.3 | 0.2 | 0.3 | 0.2 | 0.1 | -0.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 0.9 | 1.1 | 0.8 | 0.7 | 0.7 | 0.6 | 0.7 | 0.3 | 0.5 | 0.6 | 0.5 | 0.2 | 0.2 | 0.4 | 0.3 | 0.4 | 0.3 | 0.1 | 0.3 | 0.1 | 0.1 | 0.0 |
| Midwest | - | 1.0 | 1.0 | 0.9 | 0.9 | 1.0 | 0.8 | 0.6 | 0.7 | 0.8 | 0.4 | 0.3 | 0.7 | 0.5 | 0.8 | 0.3 | 0.4 | 0.5 | 0.2 | 0.3 | 0.1 | 0.2 | +0.1 |
| South | - | 0.8 | 0.8 | 0.7 | 0.9 | 0.9 | 0.5 | 0.6 | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.4 | 0.7 | 0.3 | 0.5 | 0.4 | 0.3 | 0.4 | 0.2 | 0.3 | +0.1 |
| West | - | 0.7 | 1.1 | 1.1 | 0.9 | 0.9 | 0.8 | 0.5 | 0.7 | 0.5 | 0.7 | 0.4 | 0.5 | 0.7 | 0.5 | 0.7 | 0.6 | 0.5 | 0.4 | 0.3 | 0.4 | 0.0 | -0.3 ss |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 0.9 | 1.0 | 0.6 | 0.5 | 0.8 | 0.7 | 0.5 | 0.6 | 0.6 | 0.7 | 0.4 | 0.4 | 0.3 | 0.8 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | -0.1 |
| Other MSA | - | 0.8 | 1.0 | 0.9 | 1.0 | 0.8 | 0.8 | 0.8 | 0.5 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.5 | 0.2 | 0.3 | 0.2 | 0.2 | 0.0 |
| Non-MSA | - | 0.9 | 0.9 | 1.0 | 1.0 | 1.1 | 0.5 | 0.4 | 0.8 | 0.7 | 0.3 | 0.6 | 0.7 | 0.7 | 0.4 | 0.3 | 0.5 | 0.4 | 0.2 | 0.3 | 0.2 | 0.3 | +0.1 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 1.9 | 1.5 | 1.3 | 2.4 | 1.7 | 1.1 | 1.3 | 0.5 | 1.4 | 1.5 | 0.2 | 1.4 | 1.0 | 1.6 | 1.1 | 1.4 | 0.7 | 0.7 | 0.9 | 0.5 | 0.3 | -0.3 |
| 2.5-3.0 | - | 0.7 | 0.9 | 1.1 | 0.7 | 1.0 | 1.3 | 0.6 | 0.8 | 0.6 | 0.6 | 0.9 | 0.6 | 0.4 | 0.8 | 0.4 | 0.6 | 1.0 | 0.4 | 0.4 | 0.2 | 0.2 | 0.0 |
| 3.5-4.0 | - | 0.5 | 1.2 | 0.5 | 0.8 | 0.6 | 0.5 | 0.6 | 0.6 | 0.7 | 0.6 | 0.5 | 0.6 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 0.0 |
| 4.5-5.0 | - | 0.8 | 0.8 | 0.8 | 0.6 | 0.8 | 0.5 | 0.5 | 0.6 | 0.4 | 0.4 | 0.3 | 0.4 | 0.7 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | +0.1 |
| 5.5-6.0 (High) | - | 0.7 | 0.8 | 1.0 | 1.1 | 1.1 | 0.3 | 0.4 | 0.4 | 0.5 | 0.3 | 0.1 | 0.3 | 0.3 | 0.8 | 0.2 | 0.5 | 0.2 | 0.1 | 0.4 | 0.2 | 0.0 | -0.2 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 1.0 | 1.0 | 0.8 | 0.8 | 0.8 | 0.7 | 0.6 | 0.6 | 0.5 | 0.4 | 0.5 | 0.5 | 0.5 | 0.4 | 0.3 | 0.4 | 0.3 | 0.2 | 0.2 | 0.1 | -0.1 |
| African American | - | - | 0.2 | 0.2 | 0.4 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | -0.1 |
| Hispanic | - | - | 1.5 | 1.2 | 1.1 | 1.4 | 1.1 | 0.8 | 1.0 | 1.0 | 1.0 | 0.9 | 0.6 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.6 | 0.5 | 0.5 | 0.2 | -0.2 s |

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01$, $s s s=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S 1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in $1995 ; N$ is one half of $N$ indicated in Table S 1 . Data based on all forms beginning in 1996. In 2015 Heroin use with and without a needle were dropped in one form; data based on three of four forms; N is two thirds of N indicated.
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\text {b }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

## TABLE 52

HEROIN WITHOUT A NEEDLE: Trends in Annual Prevalence of Use by Subgroups in Grade 10

| Approximate weighted $N=$ | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 1991- \\ & 1994 \end{aligned}$ | 1995 | 1996 | 1997 | 1998 | $\underline{1999}$ | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
|  | - | 17,000 | 15,600 | 15,500 | 15,000 | 13,600 | 14,300 | 14,000 | 14,300 | 15,800 | 16,400 | 16,200 | 16,200 | 16,100 | 15,100 | 15,900 | 15,200 | 14,900 | 15,000 | 12,900 | 13,000 | 15,600 |  |
| Total | - | 0.8 | 0.9 | 1.1 | 1.0 | 1.1 | 1.1 | 0.7 | 0.8 | 0.5 | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.0 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 0.9 | 1.1 | 1.2 | 1.2 | 1.3 | 1.1 | 0.8 | 0.9 | 0.6 | 0.8 | 0.7 | 0.6 | 0.6 | 0.8 | 0.8 | 0.6 | 0.5 | 0.4 | 0.5 | 0.3 | 0.3 | 0.0 |
| Female | - | 0.7 | 0.7 | 1.0 | 0.8 | 1.0 | 1.0 | 0.6 | 0.6 | 0.4 | 0.5 | 0.6 | 0.6 | 0.5 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.3 | 0.4 | 0.3 | 0.0 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 1.7 | 1.8 | 2.1 | 1.8 | 2.5 | 2.7 | 1.7 | 2.2 | 1.4 | 2.2 | 2.3 | 2.0 | 1.1 | 1.6 | 2.0 | 2.2 | 1.6 | 1.8 | 1.2 | 1.3 | 1.2 | 0.0 |
| Complete 4 years | - | 0.6 | 0.7 | 1.0 | 0.9 | 0.8 | 0.8 | 0.5 | 0.6 | 0.4 | 0.5 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.0 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 0.5 | 0.7 | 1.0 | 1.4 | 1.6 | 1.2 | 0.8 | 0.7 | 0.4 | 0.9 | 0.9 | 0.8 | 0.7 | 0.6 | 0.5 | 0.5 | 0.6 | 0.3 | 0.4 | 0.2 | 0.4 | +0.2 |
| Midwest | - | 0.5 | 0.8 | 1.2 | 0.7 | 1.0 | 1.2 | 0.8 | 0.9 | 0.5 | 0.5 | 0.8 | 0.6 | 0.5 | 0.8 | 0.7 | 0.6 | 0.2 | 0.4 | 0.2 | 0.2 | 0.3 | 0.0 |
| South | - | 1.1 | 1.1 | 1.2 | 1.0 | 1.0 | 1.3 | 0.7 | 0.5 | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.6 | 0.5 | 0.3 | 0.5 | 0.3 | -0.2 |
| West | - | 0.9 | 0.9 | 1.0 | 0.8 | 0.8 | 0.5 | 0.5 | 1.2 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.8 | 0.6 | 0.5 | 0.5 | 0.6 | 0.3 | 0.3 | +0.1 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 0.9 | 0.9 | 1.3 | 0.8 | 0.9 | 1.5 | 0.8 | 0.6 | 0.4 | 0.6 | 0.7 | 0.5 | 0.7 | 0.5 | 0.4 | 0.6 | 0.5 | 0.5 | 0.3 | 0.3 | 0.2 | -0.1 |
| Other MSA | - | 0.7 | 1.0 | 1.0 | 1.1 | 1.2 | 1.0 | 0.7 | 0.8 | 0.6 | 0.8 | 0.7 | 0.6 | 0.5 | 0.6 | 0.8 | 0.5 | 0.4 | 0.3 | 0.5 | 0.2 | 0.2 | 0.0 |
| Non-MSA | - | 0.9 | 0.7 | 1.1 | 1.0 | 1.2 | 0.9 | 0.7 | 1.0 | 0.6 | 0.5 | 0.6 | 0.8 | 0.6 | 0.8 | 0.3 | 0.6 | 0.5 | 0.6 | 0.3 | 0.6 | 0.6 | 0.0 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 1.7 | 0.8 | 0.9 | 1.2 | 1.8 | 1.1 | 0.9 | 1.5 | 0.9 | 1.0 | 1.1 | 1.2 | 0.9 | 1.1 | 1.1 | 0.9 | 0.7 | 1.3 | 0.5 | 0.3 | 0.8 | +0.5 |
| 2.5-3.0 | - | 0.6 | 0.7 | 1.0 | 1.0 | 1.1 | 1.1 | 0.9 | 0.7 | 0.7 | 0.7 | 0.9 | 0.6 | 0.6 | 0.4 | 0.6 | 0.5 | 0.7 | 0.6 | 0.7 | 0.4 | 0.2 | -0.2 |
| 3.5-4.0 | - | 0.9 | 1.0 | 1.3 | 1.2 | 0.9 | 1.3 | 0.5 | 0.8 | 0.4 | 0.7 | 0.6 | 0.5 | 0.6 | 0.8 | 0.7 | 0.5 | 0.4 | 0.4 | 0.1 | 0.3 | 0.4 | +0.1 |
| 4.5-5.0 | - | 0.5 | 0.8 | 1.1 | 1.0 | 1.0 | 1.0 | 0.6 | 0.5 | 0.5 | 0.5 | 0.6 | 0.5 | 0.5 | 0.5 | 0.3 | 0.6 | 0.3 | 0.3 | 0.2 | 0.3 | 0.1 | -0.2 |
| 5.5-6.0 (High) | - | 0.9 | 1.1 | 1.0 | 0.7 | 1.1 | 1.1 | 0.6 | 1.1 | 0.1 | 0.4 | 0.5 | 0.4 | 0.3 | 0.4 | 0.5 | 0.5 | 0.4 | 0.1 | 0.7 | 0.4 | 0.4 | 0.0 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 0.9 | 1.0 | 1.1 | 1.1 | 1.2 | 1.0 | 0.8 | 0.7 | 0.6 | 0.7 | 0.7 | 0.5 | 0.5 | 0.6 | 0.6 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 | 0.0 |
| African American | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.2 | 0.5 | 0.6 | 0.5 | 0.4 | 0.4 | -0.1 |
| Hispanic | - | - | 0.8 | 1.1 | 1.4 | 1.3 | 0.9 | 0.8 | 0.8 | 0.8 | 0.9 | 1.0 | 0.9 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 | 0.5 | 0.3 | 0.3 | 0.0 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $s=.05, \mathrm{ss}=.01$, $\mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S 2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in $1995 ; N$ is one half of $N$ indicated in Table S 2 . Data based on all forms beginning in 1996. In 2015 Heroin use with and without a needle were dropped in one form; data based on three of four forms; N is two thirds of N indicated.
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

# TABLE 53 

HEROIN WITHOUT A NEEDLE: Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{r} \hline 1975- \\ \underline{1994} \\ \hline \end{array}$ | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | 2015 change |
| Approximate weighted $N=$ | - | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | - | 1.0 | 1.0 | 1.2 | 0.8 | 1.0 | 1.6 | 0.8 | 0.8 | 0.8 | 0.7 | 0.8 | 0.6 | 1.0 | 0.5 | 0.6 | 0.8 | 0.7 | 0.4 | 0.4 | 0.5 | 0.4 | -0.1 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 1.4 | 1.3 | 1.4 | 1.0 | 1.3 | 1.8 | 1.3 | 0.9 | 0.9 | 0.9 | 1.1 | 0.8 | 1.2 | 0.7 | 0.8 | 1.1 | 0.9 | 0.5 | 0.5 | 0.8 | 0.5 | -0.3 |
| Female | - | 0.7 | 0.7 | 0.9 | 0.7 | 0.8 | 1.5 | 0.4 | 0.7 | 0.7 | 0.4 | 0.5 | 0.3 | 0.6 | 0.3 | 0.4 | 0.4 | 0.5 | 0.2 | 0.3 | 0.2 | 0.1 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 1.4 | 1.7 | 1.6 | 1.3 | 1.5 | 2.7 | 1.3 | 2.2 | 0.8 | 1.5 | 1.7 | 1.2 | 2.6 | 1.0 | 0.7 | 1.8 | 1.1 | 0.8 | 0.8 | 0.7 | 0.8 | +0.1 |
| Complete 4 years | - | 0.9 | 0.8 | 1.0 | 0.6 | 1.0 | 1.3 | 0.7 | 0.4 | 0.7 | 0.4 | 0.6 | 0.4 | 0.7 | 0.3 | 0.5 | 0.4 | 0.6 | 0.3 | 0.4 | 0.3 | 0.2 | -0.2 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 0.9 | 1.9 | 1.9 | 1.1 | 1.3 | 0.9 | 1.3 | 1.1 | 0.6 | 1.1 | 1.1 | 1.0 | 1.1 | 0.7 | 0.7 | 1.3 | 0.8 | 0.2 | 0.4 | 0.9 | 0.3 | -0.6 |
| Midwest | - | 0.7 | 0.5 | 1.0 | 0.6 | 0.7 | 1.6 | 1.1 | 0.9 | 0.7 | 0.4 | 0.7 | 0.2 | 0.9 | 0.3 | 0.7 | 0.7 | 0.9 | 0.3 | 0.3 | 0.5 | 0.6 | +0.2 |
| South | - | 1.4 | 0.9 | 1.1 | 1.1 | 1.2 | 1.8 | 0.3 | 0.9 | 1.2 | 0.5 | 0.7 | 0.7 | 1.0 | 0.3 | 0.6 | 0.7 | 0.4 | 0.1 | 0.4 | 0.3 | 0.3 | +0.1 |
| West | - | 0.8 | 0.7 | 0.6 | 0.3 | 1.0 | 2.0 | 0.9 | 0.4 | 0.3 | 1.0 | 0.7 | 0.6 | 0.9 | 0.8 | 0.7 | 0.6 | 0.9 | 0.8 | 0.8 | 0.4 | 0.3 | -0.2 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 1.3 | 1.1 | 1.2 | 0.9 | 0.9 | 2.5 | 1.0 | 0.6 | 0.8 | 0.8 | 0.7 | 0.8 | 0.9 | 0.5 | 0.7 | 1.1 | 0.8 | 0.2 | 0.2 | 0.4 | 0.3 | -0.1 |
| Other MSA | - | 0.8 | 1.2 | 1.1 | 0.9 | 1.2 | 1.2 | 0.8 | 1.1 | 0.7 | 0.9 | 0.7 | 0.4 | 0.9 | 0.6 | 0.6 | 0.8 | 0.7 | 0.4 | 0.5 | 0.6 | 0.4 | -0.2 |
| Non-MSA | - | 1.0 | 0.4 | 1.2 | 0.4 | 0.8 | 1.4 | 0.7 | 0.6 | 1.0 | 0.2 | 1.0 | 0.5 | 1.2 | 0.3 | 0.5 | 0.5 | 0.4 | 0.5 | 0.6 | 0.2 | 0.4 | +0.2 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 1.0 | 0.8 | 1.7 | 0.5 | 2.0 | 2.7 | 1.5 | 1.8 | 1.0 | 1.1 | 1.1 | 1.2 | 2.2 | 0.7 | 1.1 | 0.8 | 1.0 | 0.1 | 1.0 | 0.9 | 1.0 | 0.0 |
| 2.5-3.0 | - | 1.1 | 0.6 | 0.8 | 1.1 | 1.1 | 1.8 | 0.5 | 0.9 | 0.9 | 0.8 | 1.0 | 0.5 | 0.9 | 0.5 | 0.7 | 0.9 | 0.4 | 0.5 | 0.7 | 0.3 | 0.4 | +0.1 |
| 3.5-4.0 | - | 0.9 | 1.1 | 1.3 | 0.9 | 0.8 | 1.7 | 0.8 | 1.0 | 0.7 | 0.6 | 0.9 | 0.5 | 0.8 | 0.3 | 0.9 | 1.1 | 1.0 | 0.2 | 0.3 | 0.2 | 0.2 | 0.0 |
| 4.5-5.0 | - | 1.2 | 1.2 | 1.2 | 0.8 | 1.1 | 1.6 | 1.1 | 0.2 | 0.8 | 0.7 | 0.5 | 0.4 | 0.8 | 0.6 | 0.3 | 0.5 | 0.7 | 0.5 | 0.3 | 0.7 | 0.3 | -0.3 |
| 5.5-6.0 (High) | - | 0.6 | 1.0 | 1.0 | 0.5 | 1.0 | 0.6 | 0.8 | 0.8 | 0.7 | 0.3 | 0.5 | 0.7 | 0.7 | 0.6 | 0.2 | 0.5 | 0.4 | 0.2 | 0.3 | 0.5 | 0.3 | -0.2 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 1.1 | 1.3 | 1.2 | 1.1 | 1.4 | 1.3 | 1.0 | 0.8 | 0.7 | 0.6 | 0.6 | 0.8 | 0.8 | 0.6 | 0.7 | 0.8 | 0.6 | 0.3 | 0.3 | 0.3 | 0.0 |
| African American | - | - | 0.2 | 0.3 | 0.3 | 0.1 | 0.4 | 0.4 | 0.4 | 0.6 | 0.7 | 0.5 | 0.4 | 0.4 | 0.4 | 0.3 | 0.7 | 0.8 | 0.4 | 0.3 | 0.7 | 0.8 | 0.0 |
| Hispanic | - | - | 0.9 | 0.6 | 0.4 | 0.6 | 1.8 | 1.3 | 0.5 | 0.7 | 0.7 | 0.9 | 1.0 | 1.1 | 0.7 | 0.4 | 0.6 | 0.7 | 0.3 | 0.3 | 0.6 | 0.6 | 0.0 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01$, $s s s=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S 3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on three of six forms; $N$ is three sixths of $N$ indicated in Table S3.
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\text {T}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 54
NARCOTICS OTHER THAN HEROIN: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{1975}$ | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 |  | cont.) |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | 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 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 6.6 | 6.8 | 7.3 | 6.9 | 7.3 | 7.1 | 6.5 | 6.0 | 6.0 | 6.2 | 6.8 | 5.9 | 5.6 | 5.1 | 4.9 | 5.0 | 3.9 | 3.3 | 3.6 | 4.3 |  |
| Female | 4.8 | 4.7 | 5.4 | 5.1 | 5.1 | 5.4 | 5.3 | 4.6 | 4.2 | 4.2 | 5.1 | 4.6 | 4.9 | 4.1 | 3.8 | 3.9 | 3.1 | 3.3 | 3.3 | 3.4 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 6.8 | 8.0 | 6.8 | 7.3 | 7.4 | 7.2 | 6.1 | 6.1 | 6.1 | 6.6 | 6.7 | 6.1 | 4.8 | 5.3 | 5.7 | 3.8 | 4.3 | 4.2 | 4.9 |  |
| Complete 4 years | - | 4.6 | 4.7 | 4.9 | 5.0 | 5.1 | 4.8 | 4.6 | 4.3 | 4.3 | 5.4 | 4.3 | 4.8 | 4.6 | 3.9 | 4.0 | 3.5 | 3.0 | 3.3 | 3.5 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 6.1 | 6.5 | 6.6 | 6.8 | 7.0 | 5.7 | 7.2 | 5.6 | 5.6 | 6.7 | 7.3 | 5.7 | 6.0 | 3.7 | 4.7 | 4.1 | 3.2 | 3.7 | 4.6 | 3.5 |  |
| Midwest | 6.2 | 6.2 | 7.5 | 6.7 | 6.1 | 7.6 | 6.2 | 5.5 | 5.3 | 4.8 | 6.3 | 5.8 | 5.2 | 4.4 | 5.7 | 4.6 | 4.2 | 3.6 | 3.2 | 4.7 |  |
| South | 4.9 | 5.0 | 5.2 | 4.5 | 5.2 | 5.0 | 4.1 | 4.5 | 4.4 | 4.5 | 3.8 | 4.2 | 4.3 | 4.7 | 3.2 | 4.1 | 2.7 | 2.7 | 3.2 | 3.8 |  |
| West | 5.4 | 5.0 | 6.0 | 6.7 | 7.1 | 6.8 | 7.2 | 6.2 | 5.2 | 5.3 | 7.1 | 5.4 | 6.1 | 5.7 | 4.9 | 5.3 | 4.4 | 3.5 | 4.0 | 3.1 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 7.3 | 6.7 | 6.7 | 6.9 | 7.3 | 6.9 | 6.9 | 5.2 | 6.0 | 5.2 | 6.0 | 4.8 | 5.2 | 4.0 | 4.1 | 3.8 | 3.3 | 3.5 | 3.1 | 4.1 |  |
| Other MSA | 5.5 | 6.1 | 6.3 | 5.9 | 6.3 | 7.0 | 6.3 | 5.7 | 5.3 | 5.1 | 6.4 | 5.6 | 5.3 | 5.2 | 4.9 | 4.6 | 3.9 | 3.1 | 3.7 | 3.7 |  |
| Non-MSA | 4.8 | 4.6 | 6.2 | 5.4 | 5.3 | 4.8 | 4.8 | 4.9 | 4.1 | 5.2 | 5.2 | 5.0 | 5.2 | 4.4 | 3.8 | 4.8 | 3.1 | 3.6 | 3.7 | 3.6 |  |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 5.4 | 5.0 | 5.1 | 5.0 | 5.2 | 5.2 | 4.8 | 4.8 | 4.8 | 4.7 | 4.5 | 4.7 | 4.1 | 3.9 | 3.6 | 3.8 | 3.8 | 3.5 | 3.8 | 3.0 |  |
| 2.5-3.0 | 5.1 | 5.9 | 6.4 | 6.2 | 5.9 | 5.8 | 5.6 | 4.9 | 5.0 | 5.2 | 5.5 | 5.0 | 4.4 | 4.3 | 4.0 | 4.1 | 3.2 | 3.5 | 2.9 | 3.8 |  |
| 3.5-4.0 | 4.2 | 6.3 | 6.7 | 6.0 | 6.3 | 6.9 | 6.6 | 5.2 | 4.5 | 5.1 | 6.5 | 6.0 | 5.6 | 4.3 | 4.6 | 4.6 | 3.7 | 3.2 | 3.7 | 3.4 |  |
| 4.5-5.0 | 6.4 | 6.3 | 6.6 | 6.4 | 6.7 | 7.0 | 6.3 | 6.4 | 6.0 | 5.6 | 6.4 | 4.8 | 5.4 | 5.4 | 4.2 | 4.7 | 3.6 | 3.4 | 3.7 | 4.3 |  |
| 5.5-6.0 (High) | 6.5 | 6.5 | 7.9 | 6.1 | 7.8 | 6.8 | 6.8 | 7.1 | 5.3 | 4.9 | 6.8 | 5.4 | 7.8 | 5.6 | 6.4 | 5.7 | 4.1 | 3.2 | 4.5 | 4.8 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 6.6 | 6.7 | 6.6 | 6.8 | 6.7 | 6.2 | 5.8 | 5.7 | 6.3 | 6.3 | 6.0 | 5.8 | 5.3 | 5.2 | 4.7 | 4.1 | 4.1 | 4.3 |  |
| African American | - | - | 2.2 | 2.0 | 1.8 | 1.7 | 1.9 | 1.8 | 1.7 | 1.6 | 1.6 | 1.7 | 1.6 | 1.5 | 1.5 | 1.4 | 1.1 | 0.9 | 1.0 | 1.5 |  |
| Hispanic | - | - | 3.8 | 3.5 | 3.5 | 3.7 | 4.3 | 4.1 | 4.0 | 4.2 | 3.6 | 3.0 | 2.4 | 2.2 | 2.5 | 2.4 | 2.3 | 2.1 | 2.3 | 2.2 |  |

(Table continued on next page.)

## TABLE 54 （cont．）

## NARCOTICS OTHER THAN HEROIN：${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

Percentage who used in last 12 months

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | $\underline{2002}{ }^{\text {d }}$ | $\underline{2003}{ }^{\text {d }}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}{ }^{\text {e }}$ | 2008 | 2009 | 2010 | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}{ }^{9}$ | $\underline{2014}$ | 2015 | $\begin{gathered} 2015 \\ \text { change } \end{gathered}$ |
| Approximate weighted $N=$ | 15，400 | 14，300 | 15，400 | 15，200 | 13，600 | 12，800 | 12，800 | 12，900 | 14，600 | 14，600 | 14，700 | 14，200 | 14，500 | 14，000 | 13，700 | 14，400 | 14，100 | 13，700 | 12，600 | 12，400 | 12，900 |  |
| Total | 4.7 | 5.4 | 6.2 | 6.3 | 6.7 | 7.0 | $6.7 \ddagger$ | 9.4 | 9.3 | 9.5 | 9.0 | 9.0 | 9.2 | 9.1 | 9.2 | 8.7 | 8.7 | 7.9 | 7.1 | 6.1 | 5.4 | －0．7 |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 5.6 | 6.4 | 7.1 | 7.4 | 8.2 | 8.0 | $8.0 \ddagger$ | 11.6 | 10.7 | 10.9 | 10.7 | 10.3 | 10.9 | 10.6 | 10.7 | 9.9 | 9.6 | 9.3 | 8.4 | 7.2 | 6.1 | －1．0 |
| Female | 3.8 | 4.4 | 5.4 | 5.1 | 5.2 | 5.9 | $5.6 \ddagger$ | 7.4 | 7.8 | 8.1 | 7.4 | 7.8 | 7.6 | 7.9 | 7.9 | 7.4 | 7.8 | 6.5 | 5.6 | 5.0 | 4.6 | －0．5 |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 5.6 | 7.0 | 8.2 | 8.4 | 7.0 | 7.8 | $7.5 \ddagger$ | 12.4 | 12.3 | 12.4 | 12.2 | 12.4 | 12.9 | 13.1 | 11.0 | 12.3 | 13.2 | 9.7 | 10.1 | 7.3 | 6.8 | －0．5 |
| Complete 4 years | 4.4 | 4.9 | 5.7 | 5.5 | 6.6 | 6.6 | $6.4 \ddagger$ | 8.8 | 8.4 | 8.7 | 8.3 | 8.1 | 8.3 | 8.3 | 8.8 | 7.8 | 7.8 | 7.4 | 6.3 | 5.8 | 5.0 | －0．7 |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 4.3 | 6.1 | 7.8 | 6.5 | 6.2 | 6.7 | 7．2才 | 10.6 | 9.3 | 9.9 | 8.3 | 10.1 | 9.3 | 9.7 | 9.3 | 9.2 | 8.3 | 6.3 | 7.1 | 4.0 | 3.9 | －0．1 |
| Midwest | 5.2 | 6.0 | 6.1 | 6.5 | 7.5 | 7.2 | $7.8 \ddagger$ | 8.8 | 9.1 | 8.7 | 10.7 | 9.9 | 10.5 | 10.0 | 11.6 | 9.0 | 9.7 | 9.1 | 6.8 | 6.3 | 5.0 | －1．3 |
| South | 4.5 | 5.1 | 6.1 | 6.5 | 7.5 | 6.6 | 5．7才 | 9.3 | 8.0 | 9.1 | 8.6 | 7.9 | 8.3 | 8.3 | 8.0 | 8.4 | 7.3 | 6.1 | 7.1 | 6.4 | 5.5 | －0．9 |
| West | 4.7 | 4.1 | 4.7 | 5.2 | 4.7 | 7.5 | $6.5 \ddagger$ | 9.5 | 11.4 | 11.1 | 8.3 | 8.9 | 9.2 | 9.0 | 8.2 | 8.4 | 10.2 | 10.0 | 7.4 | 7.1 | 6.6 | －0．5 |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 4.8 | 4.6 | 4.6 | 5.2 | 5.4 | 7.0 | $8.4 \ddagger$ | 8.9 | 7.4 | 8.1 | 8.4 | 8.1 | 7.9 | 7.9 | 7.9 | 8.8 | 7.6 | 8.4 | 6.4 | 4.6 | 4.2 | －0．4 |
| Other MSA | 4.7 | 5.4 | 7.2 | 6.8 | 7.4 | 7.2 | $5.6 \ddagger$ | 10.3 | 10.3 | 10.7 | 9.3 | 9.0 | 9.3 | 9.0 | 9.4 | 9.0 | 9.0 | 7.4 | 7.9 | 7.4 | 5.9 | －1．5 s |
| Non－MSA | 4.7 | 6.0 | 6.0 | 6.5 | 6.8 | 6.6 | $6.9 \ddagger$ | 8.5 | 9.7 | 8.9 | 9.1 | 10.4 | 10.7 | 10.7 | 10.6 | 7.7 | 9.6 | 8.3 | 6.1 | 4.8 | 6.1 | ＋1．2 |
| Parental Education：${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 4.0 | 4.5 | 4.7 | 4.7 | 4.6 | 4.6 | 5．1才 | 6.2 | 7.9 | 6.8 | 5.2 | 6.1 | 7.1 | 7.1 | 6.1 | 5.2 | 6.6 | 7.2 | 5.5 | 5.8 | 5.7 | 0.0 |
| 2．5－3．0 | 4.2 | 5.6 | 5.3 | 5.9 | 5.9 | 6.4 | $6.4 \ddagger$ | 8.9 | 9.3 | 8.8 | 9.5 | 9.5 | 8.8 | 9.2 | 9.9 | 9.4 | 8.5 | 9.0 | 7.6 | 6.8 | 4.7 | －2．1 ss |
| 3．5－4．0 | 4.4 | 5.5 | 6.5 | 6.8 | 7.2 | 7.3 | 7．1才 | 10.4 | 9.8 | 10.8 | 10.5 | 10.3 | 9.5 | 9.9 | 9.9 | 10.0 | 10.1 | 8.4 | 8.3 | 6.1 | 6.1 | 0.0 |
| 4．5－5．0 | 5.5 | 5.4 | 6.8 | 6.2 | 7.4 | 7.9 | $7.0 \ddagger$ | 10.3 | 9.5 | 10.5 | 9.3 | 9.1 | 9.9 | 9.0 | 9.9 | 8.1 | 8.1 | 8.0 | 6.6 | 5.8 | 5.3 | －0．5 |
| 5．5－6．0（High） | 5.5 | 5.6 | 7.6 | 6.6 | 7.4 | 7.5 | $7.0 \ddagger$ | 8.7 | 8.8 | 8.8 | 7.6 | 8.0 | 9.5 | 9.7 | 8.2 | 8.3 | 9.2 | 6.0 | 6.2 | 6.3 | 5.7 | －0．7 |
| Race／Ethnicity（2－year average）：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 5.0 | 5.9 | 7.1 | 7.6 | 7.7 | 8.3 | 8.5 | 10．3 $\ddagger$ | $10.2{ }^{\text {f }}$ | 11.2 | 11.2 | 11.2 | 11.5 | 11.7 | 11.7 | 11.1 | 10.6 | 10.0 | 8.5 | 7.0 | 6.0 | －0．9 ss |
| African American | 1.4 | 1.2 | 1.8 | 2.4 | 2.0 | 1.7 | 1.8 | $1.9 \ddagger$ | $2.1{ }^{\text {f }}$ | 2.7 | 2.5 | 2.4 | 2.6 | 2.7 | 2.8 | 4.0 | 4.1 | 3.4 | 4.0 | 4.7 | 4.6 | －0．1 |
| Hispanic | 2.5 | 3.7 | 3.1 | 2.8 | 3.6 | 4.6 | 4.5 | $4.3 \ddagger$ | $5.2^{\text {f }}$ | 5.5 | 5.3 | 5.0 | 4.5 | 4.2 | 4.7 | 5.1 | 5.4 | 5.5 | 5.7 | 5.4 | 4.1 | －1．2 ss |

Source．The Monitoring the Future study，the University of Michigan．
Notes．＇$\ddagger$＇indicates some change in the question．See relevant footnote．See relevant figure to assess the impact of the wording changes．Level of significance of difference between the two most recent classes： $\mathrm{s}=.05$ ，ss $=.01$ ，sss $=.001$ ．
－＇indicates data not available．Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding．See Table S3 for the number of subgroup cases．See appendix B for definition of variables in table
a＇Only drug use not under a doctor＇s orders is included here．
${ }^{\text {b }}$ Parental education is an average score of mother＇s education and father＇s education．See appendix B for details．
${ }^{\text {c }}$ To derive percentages for each racial subgroup，data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates．See appendix B for details on how race／ethnicity is defined．
${ }^{\text {d }}$ In 2002 the question text was changed in half of the questionnaire forms．In the list of examples of narcotics other than heroin，Talwin，laudanum，and paregoric were replaced with Vicodin，OxyContin，and Percocet．The 2002 data presented here are based on the changed forms only；$N$ is one half of $N$ indicated．In 2003 the remaining forms were changed to the new wording．Beginning in 2003，the data are based on all forms．
${ }^{\mathrm{e}}$ In 2007，in the list of narcotics other than heroin，Dilaudid was replaced with Ultram．
＇The 2003 data comprise half of the 2002 sample data double－weighted and all of the 2003 sample data．
In 2013 the list of examples was changed on one form：MS Contin，Roxycodone，Hydrocodone（Lortab，Lorcet，Norco），Suboxone，Tylox，and Tramadol were added to the list．An examination of the data did not show any effect from the wording change．

TABLE 55
OXYCONTIN: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 8

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1991- \\ 2001 \end{gathered}$ | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |  |
| Approximate weighted $N=$ | - | 15,100 | 16,500 | 17,000 | 16,800 | 16,500 | 16,100 | 15,700 | 15,000 | 15,300 | 16,000 | 15,100 | 14,600 | 14,600 | 14,400 |  |
| Total | - | 1.3 | 1.7 | 1.7 | 1.8 | 2.6 | 1.8 | 2.1 | 2.0 | 2.1 | 1.8 | 1.6 | 2.0 | 1.0 | 0.8 | -0.2 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 1.9 | 1.6 | 1.8 | 1.9 | 2.8 | 1.7 | 2.3 | 2.7 | 2.1 | 1.7 | 1.8 | 1.8 | 0.9 | 1.2 | +0.2 |
| Female | - | 0.9 | 1.7 | 1.6 | 1.7 | 2.2 | 2.0 | 1.8 | 1.4 | 2.2 | 1.8 | 1.2 | 2.2 | 1.2 | 0.6 | -0.6 s |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 4.3 | 7.5 | 6.9 | 6.8 | 8.8 | 5.1 | 6.1 | 8.4 | 6.4 | 7.7 | 8.2 | 7.6 | 3.8 | 3.4 | -0.4 |
| Complete 4 years | - | 1.0 | 1.1 | 1.2 | 1.2 | 1.9 | 1.5 | 1.8 | 1.6 | 1.8 | 1.3 | 1.1 | 1.6 | 0.8 | 0.6 | -0.2 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 1.0 | 1.2 | 1.1 | 1.7 | 1.6 | 1.1 | 0.8 | 1.2 | 1.6 | 1.3 | 0.8 | 3.0 | 0.8 | 0.3 | -0.5 |
| Midwest | - | 1.7 | 1.7 | 1.3 | 2.4 | 3.2 | 2.0 | 1.4 | 2.2 | 2.2 | 1.9 | 0.9 | 1.0 | 0.6 | 0.4 | -0.2 |
| South | - | 1.5 | 2.1 | 2.2 | 2.0 | 2.4 | 2.0 | 2.9 | 2.1 | 2.5 | 1.8 | 2.6 | 1.9 | 1.1 | 1.4 | +0.2 |
| West | - | 0.9 | 1.3 | 1.8 | 1.0 | 3.1 | 1.6 | 2.3 | 2.2 | 1.8 | 2.2 | 1.0 | 2.4 | 1.5 | 0.7 | -0.8 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 1.2 | 1.1 | 0.9 | 1.1 | 1.3 | 0.9 | 1.7 | 0.7 | 1.3 | 0.8 | 1.8 | 1.4 | 0.8 | 0.6 | -0.2 |
| Other MSA | - | 1.4 | 1.7 | 2.6 | 2.3 | 3.1 | 2.2 | 2.2 | 2.3 | 2.3 | 2.7 | 1.3 | 2.0 | 1.2 | 1.3 | 0.0 |
| Non-MSA | - | 1.5 | 2.5 | 1.1 | 1.8 | 3.2 | 2.3 | 2.6 | 2.8 | 2.9 | 1.5 | 1.7 | 2.7 | 0.9 | 0.3 | -0.6 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 2.9 | 4.0 | 3.5 | 3.7 | 3.6 | 2.0 | 4.0 | 6.1 | 3.0 | 3.8 | 1.4 | 1.9 | 1.6 | 1.2 | -0.3 |
| 2.5-3.0 | - | 2.0 | 2.3 | 2.1 | 2.9 | 3.4 | 2.2 | 2.3 | 2.1 | 2.7 | 2.6 | 2.7 | 1.7 | 1.3 | 1.1 | -0.2 |
| 3.5-4.0 | - | 1.0 | 1.9 | 2.2 | 2.5 | 2.4 | 2.2 | 2.3 | 1.7 | 2.5 | 2.4 | 1.2 | 3.0 | 1.0 | 0.9 | -0.2 |
| 4.5-5.0 | - | 0.9 | 0.7 | 1.3 | 0.7 | 2.0 | 1.6 | 1.7 | 1.7 | 1.3 | 1.1 | 1.2 | 1.9 | 1.0 | 0.7 | -0.3 |
| 5.5-6.0 (High) | - | 1.3 | 1.6 | 0.7 | 0.8 | 2.2 | 0.8 | 1.7 | 1.0 | 1.1 | 0.5 | 1.4 | 1.4 | 0.5 | 0.3 | -0.2 |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 1.6 | 1.7 | 1.7 | 2.3 | 2.5 | 2.3 | 2.2 | 2.1 | 1.9 | 1.5 | 1.3 | 1.2 | 1.1 | -0.2 |
| African American | - | - | 0.9 | 0.6 | 1.0 | 1.4 | 1.2 | 1.4 | 1.6 | 1.5 | 1.3 | 1.5 | 1.8 | 1.0 | 0.6 | -0.4 |
| Hispanic | - | - | 1.3 | 2.8 | 2.6 | 2.4 | 2.3 | 1.5 | 1.8 | 2.2 | 2.6 | 2.1 | 1.9 | 1.9 | 1.0 | -0.9 s |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01, s s s=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; $N$ is one third of $N$ indicated in Table S1. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| a Only drug use not under a doctor's orders is included here. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {b }}$ Parental education is an average score of mother's education and father's education. See appendix B for details. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {c }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 56
OXYCONTIN: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use
by Subgroups in Grade 10

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1991- \\ 2001 \end{gathered}$ | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |  |
| Approximate weighted $N=$ | - | 14,300 | 15,800 | 16,400 | 16,200 | 16,200 | 16,100 | 15,100 | 15,900 | 15,200 | 14,900 | 15,000 | 12,900 | 13,000 | 15,600 |  |
| Total | - | 3.0 | 3.6 | 3.5 | 3.2 | 3.8 | 3.9 | 3.6 | 5.1 | 4.6 | 3.9 | 3.0 | 3.4 | 3.0 | 2.6 | -0.3 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 3.6 | 4.3 | 3.8 | 3.4 | 3.7 | 4.2 | 3.8 | 5.6 | 4.9 | 3.8 | 3.2 | 4.7 | 2.8 | 2.9 | 0.0 |
| Female | - | 2.4 | 2.9 | 3.1 | 3.0 | 4.0 | 3.5 | 3.5 | 4.5 | 4.1 | 4.0 | 2.8 | 2.2 | 2.8 | 2.3 | -0.6 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 6.5 | 10.8 | 7.2 | 8.0 | 11.0 | 8.8 | 10.2 | 12.6 | 13.9 | 11.8 | 9.1 | 6.1 | 6.9 | 7.5 | +0.6 |
| Complete 4 years | - | 2.5 | 2.5 | 3.0 | 2.6 | 2.9 | 3.2 | 2.9 | 4.2 | 3.5 | 2.9 | 2.4 | 3.1 | 2.5 | 2.1 | -0.4 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 3.6 | 3.7 | 4.6 | 3.8 | 3.1 | 2.8 | 3.2 | 3.6 | 4.4 | 4.5 | 3.0 | 3.1 | 1.0 | 2.4 | +1.4 s |
| Midwest | - | 2.1 | 2.9 | 2.5 | 3.5 | 4.1 | 4.3 | 3.9 | 5.8 | 4.9 | 4.2 | 2.0 | 4.2 | 2.3 | 2.7 | +0.4 |
| South | - | 3.7 | 4.2 | 4.8 | 3.6 | 4.4 | 4.7 | 4.1 | 5.4 | 4.8 | 4.0 | 3.5 | 2.7 | 3.6 | 2.5 | -1.1 |
| West | - | 2.6 | 3.5 | 1.9 | 1.6 | 3.3 | 3.3 | 3.0 | 5.2 | 4.2 | 2.9 | 3.4 | 3.7 | 4.2 | 3.0 | -1.3 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 2.0 | 2.3 | 2.1 | 2.8 | 3.4 | 3.5 | 2.5 | 4.5 | 4.2 | 2.9 | 2.3 | 3.2 | 2.6 | 2.0 | -0.6 |
| Other MSA | - | 3.3 | 3.6 | 3.7 | 2.7 | 3.3 | 3.5 | 4.1 | 5.8 | 4.3 | 3.6 | 2.6 | 3.4 | 2.5 | 2.8 | +0.3 |
| Non-MSA | - | 3.7 | 5.7 | 5.1 | 4.9 | 5.8 | 5.4 | 4.1 | 4.4 | 5.7 | 5.7 | 4.9 | 3.6 | 4.7 | 3.2 | -1.5 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 6.5 | 5.9 | 3.7 | 3.3 | 6.9 | 3.9 | 3.1 | 6.5 | 7.9 | 5.5 | 4.4 | 5.2 | 2.5 | 4.3 | +1.9 |
| 2.5-3.0 | - | 3.8 | 3.9 | 4.0 | 4.8 | 5.3 | 5.9 | 5.1 | 6.7 | 6.9 | 5.4 | 4.1 | 4.4 | 3.1 | 2.8 | -0.3 |
| 3.5-4.0 | - | 2.0 | 4.1 | 4.1 | 3.0 | 4.3 | 3.5 | 3.6 | 5.5 | 4.0 | 4.3 | 3.9 | 3.2 | 3.8 | 4.0 | +0.2 |
| 4.5-5.0 | - | 1.7 | 2.9 | 2.6 | 2.6 | 2.3 | 3.4 | 3.2 | 3.9 | 2.9 | 2.4 | 1.7 | 2.7 | 2.4 | 1.6 | -0.8 |
| 5.5-6.0 (High) | - | 4.4 | 2.8 | 2.8 | 2.6 | 2.4 | 2.8 | 3.5 | 4.6 | 3.6 | 3.2 | 2.2 | 2.8 | 2.1 | 1.7 | -0.4 |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 3.6 | 4.1 | 4.1 | 4.1 | 4.6 | 4.7 | 5.0 | 5.3 | 4.4 | 3.5 | 3.5 | 3.6 | 3.0 | -0.6 |
| African American | - | - | 2.3 | 2.0 | 1.1 | 1.5 | 1.8 | 1.5 | 1.7 | 2.4 | 2.9 | 1.8 | 1.5 | 2.1 | 2.4 | +0.3 |
| Hispanic | - | - | 2.5 | 2.9 | 2.3 | 1.8 | 1.9 | 1.8 | 2.9 | 4.0 | 4.4 | 3.6 | 1.9 | 1.9 | 2.0 | +0.1 |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes. Level of significance of difference between the two most recent classes: $s=.05$, $s s=.01$, sss $=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; $N$ is one third of $N$ indicated in Table S2. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| a'Only drug use not under a doctor's orders is included here. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {b }}$ Parental education is an average score of mother's education and father's education. See appendix B for details. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {c }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 57
OXYCONTIN: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use
by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline 1975- \\ & \underline{2001} \end{aligned}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | 2008 | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | - | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | - | 4.0 | 4.5 | 5.0 | 5.5 | 4.3 | 5.2 | 4.7 | 4.9 | 5.1 | 4.9 | 4.3 | 3.6 | 3.3 | 3.7 | +0.3 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 5.6 | 6.2 | 6.1 | 7.4 | 5.3 | 6.3 | 5.3 | 6.5 | 5.9 | 5.9 | 5.1 | 4.7 | 4.3 | 4.2 | -0.1 |
| Female | - | 2.6 | 2.8 | 3.4 | 3.5 | 2.9 | 4.0 | 4.0 | 3.4 | 3.8 | 3.8 | 3.1 | 2.5 | 2.2 | 3.0 | +0.8 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 7.0 | 8.8 | 8.2 | 9.9 | 7.4 | 7.8 | 7.6 | 6.7 | 10.2 | 9.7 | 5.2 | 6.0 | 4.5 | 4.3 | -0.2 |
| Complete 4 years | - | 3.2 | 3.1 | 3.8 | 4.3 | 3.3 | 4.5 | 4.1 | 4.5 | 3.9 | 3.9 | 4.0 | 2.8 | 2.9 | 3.4 | +0.6 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 5.0 | 5.5 | 4.6 | 6.0 | 5.5 | 5.5 | 4.6 | 5.0 | 6.3 | 4.4 | 3.6 | 3.6 | 3.1 | 2.8 | -0.3 |
| Midwest | - | 5.0 | 4.5 | 4.2 | 6.0 | 4.3 | 5.1 | 4.4 | 5.4 | 5.0 | 4.3 | 4.5 | 3.0 | 3.4 | 3.8 | +0.5 |
| South | - | 3.6 | 4.0 | 5.9 | 6.3 | 4.0 | 5.2 | 4.9 | 4.3 | 4.8 | 5.0 | 4.3 | 4.1 | 4.4 | 3.6 | -0.8 |
| West | - | 2.6 | 4.4 | 4.7 | 3.0 | 3.6 | 5.1 | 4.9 | 5.0 | 4.7 | 5.9 | 4.5 | 3.3 | 1.6 | 4.2 | +2.6 s |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 3.7 | 2.8 | 4.6 | 4.8 | 4.4 | 4.2 | 3.9 | 4.2 | 5.4 | 3.9 | 4.6 | 2.8 | 3.6 | 2.6 | -1.0 |
| Other MSA | - | 3.8 | 5.3 | 5.2 | 5.1 | 3.6 | 5.4 | 5.0 | 5.2 | 4.8 | 5.2 | 4.0 | 4.2 | 3.4 | 4.3 | +0.9 |
| Non-MSA | - | 4.7 | 5.2 | 4.9 | 7.1 | 5.4 | 6.2 | 5.1 | 5.2 | 5.3 | 6.0 | 4.6 | 3.1 | 2.7 | 3.9 | +1.2 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 6.3 | 6.9 | 3.7 | 5.5 | 4.2 | 4.4 | 3.8 | 4.9 | 4.9 | 3.4 | 4.3 | 6.0 | 3.6 | 3.2 | -0.4 |
| 2.5-3.0 | - | 5.3 | 6.8 | 4.8 | 6.3 | 4.4 | 5.6 | 4.5 | 4.6 | 5.5 | 4.8 | 4.2 | 3.4 | 3.0 | 3.3 | +0.4 |
| 3.5-4.0 | - | 3.9 | 3.4 | 6.5 | 6.3 | 5.1 | 5.0 | 6.0 | 5.8 | 5.4 | 5.7 | 4.6 | 3.4 | 3.4 | 3.4 | 0.0 |
| 4.5-5.0 | - | 2.2 | 3.6 | 3.1 | 4.2 | 3.4 | 5.3 | 4.3 | 4.8 | 4.2 | 4.4 | 4.4 | 3.5 | 2.8 | 3.9 | +1.1 |
| 5.5-6.0 (High) | - | 4.0 | 2.5 | 4.3 | 4.8 | 3.5 | 4.3 | 3.8 | 4.1 | 4.7 | 5.0 | 3.5 | 2.2 | 4.1 | 4.3 | +0.2 |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 4.7 | 5.1 | 5.8 | 5.4 | 5.5 | 6.0 | 5.8 | 5.7 | 5.8 | 5.2 | 4.0 | 3.3 | 3.7 | +0.3 |
| African American | - | - | 2.5 | 2.4 | 2.0 | 2.2 | 2.4 | 2.1 | 2.0 | 3.1 | 3.2 | 2.8 | 3.4 | 4.0 | 3.9 | -0.1 |
| Hispanic | - | - | 2.5 | 2.2 | 3.0 | 3.7 | 3.2 | 2.1 | 2.9 | 3.5 | 3.0 | 3.2 | 3.4 | 2.7 | 2.1 | -0.6 |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01$, $s s s=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms in 2002-2005; $N$ is two sixths of $N$ indicated in Table S3. Data based on three of six forms beginning in 2006; $N$ is three sixths of $N$ indicated in Table S3. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {a }}$ Only drug use not under a doctor's orders is included here. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {b }}$ Parental education is an average score of mother's education and father's education. See appendix B for details. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\mathrm{c}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 58
VICODIN: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use
by Subgroups in Grade 8

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { 1991- } \\ \underline{2001} \\ \hline \end{gathered}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | - | 15,100 | 16,500 | 17,000 | 16,800 | 16,500 | 16,100 | 15,700 | 15,000 | 15,300 | 16,000 | 15,100 | 14,600 | 14,600 | 14,400 |  |
| Total | - | 2.5 | 2.8 | 2.5 | 2.6 | 3.0 | 2.7 | 2.9 | 2.5 | 2.7 | 2.1 | 1.3 | 1.4 | 1.0 | 0.9 | -0.2 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 2.7 | 2.8 | 2.4 | 2.9 | 2.6 | 2.1 | 2.9 | 3.0 | 2.8 | 2.1 | 0.8 | 1.1 | 0.9 | 0.8 | -0.1 |
| Female | - | 2.4 | 2.8 | 2.6 | 2.2 | 3.4 | 3.2 | 2.7 | 2.2 | 2.6 | 1.9 | 1.7 | 1.6 | 1.1 | 1.0 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 5.9 | 6.3 | 7.1 | 7.3 | 9.5 | 8.1 | 7.0 | 6.5 | 7.2 | 6.4 | 3.0 | 4.0 | 1.9 | 2.2 | +0.3 |
| Complete 4 years | - | 2.1 | 2.4 | 2.0 | 1.9 | 2.4 | 2.1 | 2.5 | 2.3 | 2.2 | 1.8 | 1.2 | 1.2 | 0.9 | 0.7 | -0.2 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 1.5 | 1.1 | 1.0 | 1.5 | 1.9 | 1.4 | 1.0 | 1.8 | 2.8 | 1.7 | 0.7 | 1.6 | 0.3 | 0.3 | +0.1 |
| Midwest | - | 3.3 | 3.9 | 3.2 | 3.3 | 3.9 | 3.6 | 3.1 | 3.5 | 3.4 | 2.8 | 1.8 | 1.0 | 1.4 | 1.0 | -0.4 |
| South | - | 2.5 | 2.1 | 2.1 | 2.3 | 2.2 | 2.1 | 2.9 | 1.7 | 1.8 | 1.5 | 1.5 | 1.1 | 0.6 | 1.0 | +0.3 |
| West | - | 2.6 | 4.2 | 3.6 | 3.1 | 4.4 | 3.5 | 3.7 | 3.3 | 3.2 | 3.0 | 1.1 | 2.0 | 1.8 | 1.0 | -0.8 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 2.6 | 2.4 | 1.8 | 2.5 | 2.4 | 1.6 | 2.7 | 1.9 | 1.8 | 1.2 | 1.8 | 1.3 | 0.8 | 0.7 | -0.1 |
| Other MSA | - | 3.0 | 3.1 | 3.0 | 2.6 | 3.3 | 3.4 | 3.0 | 2.6 | 3.2 | 2.7 | 1.0 | 1.4 | 1.2 | 1.2 | 0.0 |
| Non-MSA | - | 1.6 | 2.5 | 2.4 | 2.6 | 3.3 | 2.8 | 2.8 | 3.2 | 2.8 | 2.4 | 1.6 | 1.5 | 1.0 | 0.4 | -0.6 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 3.3 | 3.3 | 4.9 | 3.9 | 4.8 | 3.1 | 3.4 | 5.4 | 3.9 | 4.0 | 1.7 | 1.7 | 1.5 | 2.8 | +1.4 |
| 2.5-3.0 | - | 3.9 | 3.4 | 4.1 | 3.8 | 4.0 | 3.0 | 3.3 | 3.8 | 3.3 | 3.0 | 1.2 | 1.1 | 0.9 | 1.1 | +0.2 |
| 3.5-4.0 | - | 3.4 | 2.9 | 3.2 | 2.9 | 2.7 | 3.1 | 2.8 | 2.5 | 1.6 | 2.8 | 1.3 | 2.3 | 1.5 | 0.6 | -0.9 |
| 4.5-5.0 | - | 1.4 | 2.1 | 1.1 | 1.9 | 2.6 | 2.4 | 3.2 | 1.5 | 2.7 | 1.4 | 1.3 | 1.4 | 0.8 | 0.3 | -0.5 |
| 5.5-6.0 (High) | - | 1.3 | 2.1 | 0.9 | 1.6 | 2.2 | 1.8 | 2.3 | 2.1 | 2.7 | 0.9 | 1.0 | 0.8 | 0.8 | 0.3 | -0.5 |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 3.0 | 2.7 | 2.4 | 2.9 | 3.2 | 3.2 | 2.8 | 2.6 | 2.5 | 1.8 | 1.2 | 0.9 | 0.7 | -0.1 |
| African American | - | - | 1.4 | 1.4 | 1.6 | 1.7 | 1.6 | 1.6 | 1.9 | 2.0 | 1.3 | 1.2 | 1.3 | 0.9 | 0.5 | -0.3 |
| Hispanic | - | - | 2.1 | 3.3 | 3.6 | 2.8 | 2.6 | 2.1 | 2.5 | 3.0 | 2.8 | 2.1 | 1.9 | 1.8 | 1.2 | -0.6 |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes. Level of significance of difference between the two most recent classes: $s=.05$, $s s=.01$, $s s s=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; $N$ is one third of $N$ indicated in Table S1. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {a }}$ Only drug use not under a doctor's orders is included here. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {b }}$ Parental education is an average score of mother's education and father's education. See appendix B for details. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {c }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 59

## VICODIN: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use

 by Subgroups in Grade 10|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { 1991- } \\ \underline{2001} \end{gathered}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N$ | - | 14,300 | 15,800 | 16,400 | 16,200 | 16,200 | 16,100 | 15,100 | 15,900 | 15,200 | 14,900 | 15,000 | 12,900 | 13,000 | 15,600 |  |
| Total | - | 6.9 | 7.2 | 6.2 | 5.9 | 7.0 | 7.2 | 6.7 | 8.1 | 7.7 | 5.9 | 4.4 | 4.6 | 3.4 | 2.5 | -0.9 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 7.4 | 8.4 | 6.2 | 5.5 | 7.0 | 7.5 | 7.1 | 9.2 | 8.1 | 6.0 | 4.5 | 5.1 | 2.9 | 2.7 | -0.2 |
| Female | - | 6.1 | 6.1 | 6.0 | 6.2 | 6.9 | 6.8 | 6.4 | 7.0 | 7.0 | 5.8 | 4.4 | 4.1 | 3.9 | 2.2 | -1.7 s |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 13.4 | 15.8 | 11.6 | 13.2 | 17.2 | 15.2 | 16.5 | 17.6 | 16.9 | 14.1 | 8.8 | 9.3 | 7.1 | 7.8 | +0.7 |
| Complete 4 years | - | 5.7 | 5.8 | 5.4 | 4.8 | 5.6 | 6.1 | 5.6 | 7.1 | 6.5 | 4.9 | 4.0 | 4.1 | 3.0 | 2.0 | -1.0 s |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 6.2 | 5.6 | 6.4 | 5.7 | 4.9 | 6.5 | 5.3 | 5.1 | 5.6 | 4.6 | 3.3 | 3.5 | 2.4 | 1.9 | -0.4 |
| Midwest | - | 7.2 | 9.4 | 6.4 | 7.1 | 8.7 | 8.8 | 8.4 | 10.5 | 9.3 | 8.1 | 4.6 | 5.8 | 4.4 | 2.9 | -1.6 |
| South | - | 5.3 | 5.0 | 5.0 | 5.0 | 4.2 | 4.5 | 5.2 | 5.6 | 6.0 | 4.3 | 3.4 | 3.1 | 2.7 | 1.8 | -0.9 |
| West | - | 10.0 | 9.1 | 7.1 | 5.8 | 11.1 | 9.4 | 7.9 | 12.1 | 10.1 | 6.6 | 6.6 | 6.0 | 4.4 | 3.9 | -0.5 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 5.7 | 7.1 | 4.8 | 6.5 | 6.1 | 6.8 | 6.2 | 7.7 | 7.1 | 5.7 | 4.3 | 4.8 | 3.9 | 1.5 | -2.3 ss |
| Other MSA | - | 7.9 | 6.4 | 6.9 | 5.3 | 7.6 | 7.2 | 6.7 | 8.9 | 7.5 | 5.8 | 4.5 | 4.7 | 3.0 | 2.8 | -0.2 |
| Non-MSA | - | 6.2 | 9.2 | 6.4 | 6.3 | 6.9 | 7.8 | 7.6 | 7.1 | 8.9 | 6.3 | 4.5 | 4.0 | 3.9 | 3.5 | -0.4 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 6.1 | 6.4 | 6.4 | 4.9 | 7.6 | 6.5 | 6.3 | 10.4 | 12.1 | 5.8 | 6.6 | 8.2 | 3.0 | 4.8 | +1.8 |
| 2.5-3.0 | - | 8.0 | 8.3 | 8.2 | 7.7 | 8.0 | 8.6 | 7.5 | 9.1 | 9.6 | 7.5 | 5.8 | 4.4 | 3.5 | 3.0 | -0.5 |
| 3.5-4.0 | - | 7.5 | 8.5 | 6.2 | 6.8 | 8.1 | 8.2 | 7.9 | 9.0 | 8.9 | 7.3 | 4.9 | 5.3 | 5.1 | 3.5 | -1.5 |
| 4.5-5.0 | - | 5.7 | 6.3 | 5.1 | 5.0 | 5.6 | 7.0 | 6.0 | 7.3 | 4.5 | 4.3 | 3.6 | 3.7 | 2.4 | 1.7 | -0.7 |
| 5.5-6.0 (High) | - | 6.6 | 5.6 | 5.0 | 4.6 | 6.3 | 4.7 | 5.7 | 6.0 | 5.8 | 4.1 | 3.1 | 3.7 | 2.7 | 1.2 | -1.4 |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 8.0 | 7.6 | 7.1 | 7.4 | 8.3 | 8.5 | 8.3 | 8.3 | 7.2 | 5.3 | 4.7 | 4.8 | 3.6 | -1.2 ss |
| African American | - | - | 3.1 | 3.0 | 1.6 | 2.2 | 2.4 | 2.2 | 2.7 | 3.4 | 3.0 | 1.7 | 1.9 | 2.4 | 2.2 | -0.2 |
| Hispanic | - | - | 6.5 | 6.0 | 4.8 | 4.4 | 4.2 | 4.1 | 6.2 | 8.2 | 7.3 | 5.6 | 4.6 | 3.3 | 2.2 | -1.2 s |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01$, $s s s=.001$. ' - ' indicates data not available. Any apparent inconsistency between the ch estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables table. Data based on one of four forms; $N$ is one third of $N$ indicated in Table S2. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {b }}$ Parental education is an average score of mother's education and father's education. See appendix B for details. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {c }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 60

## VICODIN: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1975- \\ \underline{2001} \end{gathered}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | - | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | - | 9.6 | 10.5 | 9.3 | 9.5 | 9.7 | 9.6 | 9.7 | 9.7 | 8.0 | 8.1 | 7.5 | 5.3 | 4.8 | 4.4 | -0.4 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 12.0 | 13.0 | 10.7 | 11.9 | 10.9 | 10.9 | 10.6 | 11.5 | 9.5 | 9.0 | 8.6 | 6.5 | 5.5 | 5.1 | -0.4 |
| Female | - | 7.5 | 8.1 | 7.6 | 7.2 | 8.7 | 8.1 | 8.9 | 7.9 | 6.4 | 7.1 | 5.9 | 4.1 | 3.8 | 3.8 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 13.0 | 14.7 | 11.6 | 14.3 | 11.8 | 13.2 | 15.0 | 13.1 | 12.0 | 13.2 | 9.2 | 8.3 | 5.7 | 5.8 | +0.1 |
| Complete 4 years | - | 8.4 | 9.1 | 8.3 | 8.4 | 9.1 | 8.5 | 8.5 | 8.9 | 7.1 | 7.1 | 6.8 | 4.5 | 4.4 | 4.0 | -0.4 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 8.1 | 9.4 | 9.1 | 8.8 | 10.8 | 9.3 | 9.9 | 9.0 | 9.0 | 5.8 | 5.4 | 5.4 | 3.2 | 3.4 | +0.2 |
| Midwest | - | 11.6 | 13.2 | 8.4 | 12.4 | 12.0 | 14.1 | 11.7 | 14.3 | 9.6 | 9.6 | 9.7 | 6.7 | 7.4 | 5.6 | -1.8 |
| South | - | 8.1 | 6.1 | 7.0 | 7.8 | 6.9 | 6.3 | 7.3 | 6.2 | 5.0 | 5.6 | 4.9 | 3.1 | 3.6 | 3.7 | +0.1 |
| West | - | 10.9 | 16.3 | 15.4 | 9.3 | 11.2 | 10.9 | 11.1 | 10.4 | 10.6 | 11.9 | 9.7 | 7.1 | 5.7 | 5.2 | -0.5 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 9.7 | 7.3 | 8.3 | 8.9 | 10.4 | 9.1 | 8.4 | 8.6 | 8.4 | 8.7 | 8.7 | 5.5 | 4.2 | 3.4 | -0.8 |
| Other MSA | - | 10.6 | 12.2 | 10.9 | 9.3 | 9.4 | 9.3 | 10.0 | 9.7 | 8.5 | 8.2 | 6.8 | 5.5 | 5.3 | 5.4 | +0.1 |
| Non-MSA | - | 7.8 | 11.4 | 7.2 | 10.6 | 9.5 | 10.7 | 10.5 | 11.3 | 6.2 | 7.2 | 7.3 | 4.6 | 4.3 | 3.6 | -0.6 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 12.1 | 9.4 | 7.8 | 7.8 | 7.9 | 6.3 | 7.8 | 9.6 | 6.0 | 8.6 | 6.8 | 6.0 | 4.9 | 4.5 | -0.5 |
| 2.5-3.0 | - | 9.6 | 10.8 | 8.8 | 10.5 | 9.3 | 10.2 | 10.5 | 9.2 | 8.5 | 7.6 | 9.0 | 5.0 | 5.0 | 3.7 | -1.3 |
| 3.5-4.0 | - | 9.5 | 12.0 | 10.1 | 10.0 | 11.6 | 9.9 | 11.2 | 10.9 | 8.3 | 9.0 | 7.8 | 6.5 | 4.1 | 4.9 | +0.7 |
| 4.5-5.0 | - | 9.9 | 9.7 | 8.4 | 9.0 | 8.6 | 10.5 | 8.8 | 10.3 | 7.9 | 7.3 | 7.1 | 5.3 | 5.1 | 4.8 | -0.3 |
| 5.5-6.0 (High) | - | 8.6 | 8.8 | 10.1 | 8.9 | 10.4 | 7.9 | 8.8 | 7.7 | 8.4 | 7.7 | 5.5 | 3.4 | 4.8 | 4.2 | -0.7 |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 11.7 | 11.2 | 10.5 | 11.3 | 11.5 | 11.6 | 11.8 | 10.4 | 9.4 | 8.7 | 6.6 | 5.0 | 4.7 | -0.3 |
| African American | - | - | 3.3 | 3.1 | 3.3 | 3.7 | 3.3 | 3.6 | 4.3 | 4.3 | 4.1 | 3.8 | 3.2 | 2.7 | 2.9 | +0.2 |
| Hispanic | - | - | 7.1 | 7.2 | 7.7 | 6.5 | 5.7 | 4.9 | 5.7 | 6.2 | 6.0 | 7.1 | 7.1 | 4.7 | 3.5 | -1.1 |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes. Level of significance of difference between the two most recent classes: $s=.05, \mathrm{ss}=.01$, $\mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms in 2002-2005; $N$ is two sixths of $N$ indicated in Table S3. Data based on three of six forms beginning in 2006; $N$ is three sixths of $N$ indicated in Table S3. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {a }}$ Only drug use not under a doctor's orders is included here. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {b }}$ Parental education is an average score of mother's education and father's education. See appendix B for details. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {c }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## TABLE 61

## AMPHETAMINES：${ }^{\text {a }}$ Trends in Annual Prevalence of Use <br> by Subgroups in Grade 8

Percentage who used in last 12 months
2014
$\underline{19} 1 \underline{1992} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015} \quad \underline{c h a n g e}$


| Total | 6.2 | 6.5 | 7.2 | 7.9 | 8.7 | 9.1 | 8.1 | 7.2 | 6.9 | 6.5 | 6.7 | 5.5 | 5.5 | 4.9 | 4.9 | 4.7 | 4.2 | 4.5 | 4.1 | 3.9 | 3.5 | 2．9才 | 4.2 | 4.3 | 4.1 | －0．1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 5.5 | 5.2 | 5.6 | 6.5 | 7.0 | 6.7 | 6.6 | 5.6 | 5.6 | 5.1 | 5.7 | 4.8 | 4.4 | 3.7 | 3.5 | 3.5 | 3.3 | 3.5 | 3.7 | 3.4 | 3.1 | 2．4 $\ddagger$ | 3.5 | 3.4 | 3.1 | －0．3 |
| Female | 6.9 | 7.9 | 8.8 | 9.3 | 10.3 | 11.3 | 9.6 | 8.7 | 8.2 | 7.7 | 7.5 | 6.2 | 6.5 | 6.1 | 6.2 | 5.7 | 4.9 | 5.5 | 4.4 | 4.3 | 3.8 | 3．3 $\ddagger$ | 4.8 | 4.8 | 5.1 | ＋0．2 |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 11.6 | 12.9 | 14.6 | 14.5 | 17.1 | 15.5 | 14.1 | 15.4 | 14.0 | 14.2 | 12.0 | 12.2 | 12.4 | 8.9 | 11.2 | 10.7 | 10.0 | 12.4 | 10.8 | 8.8 | 8.1 | 6．8才 | 8.7 | 10.4 | 6.5 | －3．9 s |
| Complete 4 years | 5.4 | 5.7 | 6.3 | 7.0 | 7.6 | 8.3 | 7.5 | 6.3 | 6.2 | 5.7 | 6.1 | 4.8 | 4.8 | 4.5 | 4.3 | 4.1 | 3.6 | 3.8 | 3.5 | 3.5 | 3.1 | 2．6 $\ddagger$ | 3.9 | 3.7 | 3.9 | ＋0．2 |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 5.1 | 4.3 | 5.9 | 6.9 | 7.3 | 7.6 | 6.5 | 5.5 | 5.6 | 5.0 | 5.5 | 3.4 | 4.1 | 2.8 | 3.5 | 2.2 | 2.6 | 2.6 | 2.9 | 2.0 | 2.3 | 2．1才 | 2.6 | 3.3 | 3.4 | ＋0．1 |
| Midwest | 7.1 | 8.0 | 7.3 | 7.8 | 10.6 | 10.8 | 9.3 | 7.2 | 8.3 | 7.8 | 7.1 | 5.9 | 5.9 | 5.1 | 5.0 | 5.3 | 4.8 | 5.1 | 4.1 | 4.0 | 3.5 | $2.2 \ddagger$ | 4.0 | 3.8 | 3.8 | 0.0 |
| South | 6.1 | 6.6 | 7.3 | 8.3 | 8.6 | 8.7 | 8.1 | 8.4 | 7.5 | 7.0 | 8.1 | 6.7 | 6.4 | 5.7 | 5.8 | 5.6 | 4.6 | 5.5 | 5.1 | 4.8 | 3.8 | 4．0才 | 5.3 | 4.4 | 4.6 | ＋0．2 |
| West | 6.0 | 6.6 | 8.6 | 8.4 | 7.9 | 9.1 | 8.3 | 6.7 | 5.4 | 5.4 | 4.6 | 4.7 | 4.6 | 4.9 | 4.6 | 4.3 | 3.7 | 3.8 | 3.0 | 3.6 | 3.9 | 2．2 $\ddagger$ | 3.8 | 5.2 | 4.0 | －1．2 s |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 5.8 | 4.8 | 5.6 | 6.6 | 7.2 | 7.9 | 6.4 | 5.4 | 5.2 | 5.2 | 5.0 | 4.2 | 3.9 | 4.0 | 3.6 | 3.9 | 3.4 | 4.1 | 2.7 | 2.6 | 2.6 | $2.6 \ddagger$ | 3.8 | 3.3 | 3.1 | －0．2 |
| Other MSA | 6.2 | 7.5 | 8.2 | 8.8 | 8.9 | 10.0 | 8.1 | 7.4 | 6.8 | 6.4 | 7.6 | 5.9 | 5.5 | 5.4 | 5.8 | 4.8 | 4.6 | 4.8 | 4.8 | 4.6 | 4.1 | 3．1才 | 4.3 | 4.7 | 5.0 | ＋0．3 |
| Non－MSA | 6.7 | 7.0 | 7.5 | 7.5 | 10.1 | 8.9 | 9.9 | 8.8 | 9.3 | 8.5 | 6.9 | 6.3 | 7.5 | 5.0 | 5.2 | 5.4 | 4.4 | 4.4 | 4.3 | 3.9 | 3.6 | 3．0才 | 4.8 | 4.8 | 3.5 | －1．3 |
| Parental Education：${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 8.3 | 8.4 | 10.2 | 11.2 | 11.8 | 10.1 | 9.6 | 11.2 | 8.9 | 9.7 | 7.4 | 6.3 | 8.4 | 9.7 | 8.3 | 6.5 | 7.3 | 7.9 | 6.5 | 5.9 | 5.1 | 3．8¥ | 6.0 | 5.3 | 6.0 | ＋0．7 |
| 2．5－3．0 | 6.6 | 7.3 | 8.2 | 9.0 | 10.6 | 9.9 | 9.2 | 8.1 | 7.8 | 8.1 | 8.2 | 7.3 | 7.4 | 5.2 | 6.6 | 6.0 | 4.9 | 6.0 | 4.5 | 4.6 | 5.4 | 3．7才 | 5.0 | 5.3 | 5.3 | 0.0 |
| 3．5－4．0 | 6.7 | 7.4 | 7.8 | 8.5 | 10.1 | 10.3 | 8.9 | 7.7 | 8.2 | 6.8 | 7.8 | 5.7 | 5.9 | 5.6 | 5.6 | 5.0 | 4.5 | 5.4 | 5.3 | 4.1 | 3.8 | 3．4 $\ddagger$ | 6.1 | 4.8 | 4.4 | －0．4 |
| 4．5－5．0 | 5.3 | 5.5 | 6.4 | 6.6 | 6.8 | 8.6 | 7.5 | 6.2 | 5.6 | 5.2 | 5.9 | 4.9 | 4.3 | 4.2 | 3.7 | 4.2 | 2.9 | 3.2 | 3.3 | 3.5 | 2.5 | 1．9才 | 3.5 | 3.2 | 3.3 | ＋0．1 |
| 5．5－6．0（High） | 5.7 | 5.4 | 5.3 | 5.7 | 6.4 | 8.7 | 7.3 | 6.4 | 5.8 | 5.2 | 4.5 | 4.3 | 3.9 | 3.5 | 3.1 | 3.6 | 3.5 | 3.4 | 2.8 | 2.5 | 2.4 | 2．6才 | 2.3 | 3.6 | 3.3 | －0．3 |
| Race／Ethnicity（2－year average）：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | － | 6.8 | 7.4 | 8.1 | 9.3 | 10.2 | 9.9 | 9.0 | 8.4 | 8.0 | 7.8 | 7.2 | 6.4 | 5.9 | 5.4 | 5.3 | 4.9 | 4.9 | 4.9 | 4.5 | 3.9 | 3.2 | $2.7 \ddagger$ | 3.9 | 4.1 | ＋0．2 |
| African American | － | 3.3 | 3.4 | 3.9 | 3.9 | 3.4 | 3.0 | 2.8 | 2.7 | 2.4 | 2.3 | 2.7 | 2.5 | 2.1 | 2.2 | 2.0 | 1.7 | 1.8 | 2.4 | 2.3 | 1.9 | 1.9 | 1．6 $\ddagger$ | 3.2 | 3.2 | 0.0 |
| Hispanic | － | 7.2 | 7.7 | 8.6 | 8.7 | 8.6 | 8.1 | 7.2 | 7.0 | 6.8 | 6.6 | 5.9 | 5.0 | 5.4 | 5.3 | 4.5 | 3.9 | 4.0 | 3.9 | 3.5 | 3.9 | 3.6 | $2.6 \ddagger$ | 4.5 | 4.1 | －0．4 |

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

 changed slightly in half of the questionnaire forms．An examination of the data did not show any effect from the wording changes．In 2010 the remaining forms were changed in a like manner．In 2013 the question wording was changed two of the 8 th and 10 th grade questionnaires．The new wording in 2013 asked＂On how many occasions（if any）have you taken amphetamines or other prescription stimulant drugs．．．＂In contrast，the old wording did not include＂or other prescription stimulant drugs．＂Results in 2013 indicated highe
 the new，updated wording
${ }^{\text {a }}$ Only drug use not under a doctor＇s orders is included here．
${ }^{\mathrm{b}}$ Parental education is an average score of mother＇s education and father＇s education．See appendix B for details．
 data are based on the 2012 data combined with the 2013 data from the unchanged forms which were double weighted．The 2014 race／ethnicity data are based on the 2013 changed data which were double weighted and the 2014 data

## TABLE 62

## AMPHETAMINES：${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 10

Percentage who used in last 12 months
2014－
$\underline{19} 1 \underline{1991} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015} \quad \underline{c h a n g e}$


| Total | 8.2 | 8.2 | 9.6 | 10.2 | 11.9 | 12.4 | 12.1 | 10.7 | 10.4 | 11.1 | 11.7 | 10.7 | 9.0 | 8.5 | 7.8 | 7.9 | 8.0 | 6.4 | 7.1 | 7.6 | 6.6 | $6.5 \ddagger$ | 7.9 | 7.6 | 6.8 | －0．8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 7.0 | 7.0 | 8.2 | 8.6 | 9.6 | 10.5 | 10.3 | 9.0 | 9.2 | 10.3 | 10.6 | 9.6 | 7.8 | 7.3 | 6.6 | 6.7 | 7.4 | 5.8 | 6.8 | 7.4 | 7.2 | $6.9 \ddagger$ | 8.3 | 6.9 | 6.4 | －0．5 |
| Female | 9.3 | 9.3 | 10.9 | 11.7 | 14.1 | 14.2 | 13.9 | 12.3 | 11.5 | 11.8 | 12.7 | 11.8 | 10.1 | 9.6 | 9.0 | 8.9 | 8.7 | 6.9 | 7.4 | 7.7 | 6.0 | $6.2 \ddagger$ | 7.5 | 8.3 | 7.3 | －1．0 |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 13.4 | 14.4 | 15.5 | 16.6 | 19.9 | 20.3 | 19.3 | 17.9 | 16.3 | 18.2 | 20.4 | 17.5 | 15.7 | 14.8 | 13.7 | 14.8 | 15.4 | 12.5 | 15.3 | 15.7 | 14.6 | $13.8 \ddagger$ | 11.5 | 14.7 | 12.8 | －1．9 |
| Complete 4 years | 7.1 | 6.9 | 8.4 | 8.9 | 10.6 | 11.1 | 10.9 | 9.5 | 9.5 | 10.0 | 10.3 | 9.7 | 7.9 | 7.6 | 7.0 | 7.0 | 7.1 | 5.6 | 6.3 | 6.7 | 5.7 | $5.8 \ddagger$ | 7.6 | 6.9 | 6.3 | －0．6 |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 6.1 | 5.4 | 7.8 | 8.7 | 9.8 | 11.5 | 10.7 | 11.0 | 12.1 | 9.8 | 10.5 | 9.3 | 7.4 | 8.5 | 7.4 | 6.7 | 7.3 | 4.2 | 5.2 | 5.9 | 5.7 | $6.2 \ddagger$ | 6.2 | 6.6 | 6.4 | －0．2 |
| Midwest | 10.3 | 9.4 | 9.5 | 10.5 | 13.3 | 14.0 | 11.0 | 9.8 | 10.3 | 11.1 | 10.7 | 10.4 | 9.7 | 8.2 | 8.5 | 8.7 | 8.7 | 7.3 | 7.0 | 8.6 | 7.4 | 6．4才 | 8.5 | 8.7 | 6.0 | －2．7 ss |
| South | 8.1 | 8.7 | 10.9 | 11.2 | 12.8 | 12.6 | 14.2 | 12.6 | 10.8 | 12.0 | 14.0 | 12.2 | 10.2 | 9.6 | 8.6 | 8.5 | 8.1 | 6.8 | 8.3 | 7.6 | 7.2 | $7.5 \ddagger$ | 9.0 | 7.9 | 7.5 | －0．4 |
| West | 7.7 | 8.4 | 9.5 | 9.4 | 10.6 | 10.6 | 11.1 | 8.5 | 8.2 | 10.9 | 9.9 | 9.6 | 8.1 | 7.3 | 5.8 | 7.1 | 7.7 | 6.6 | 7.4 | 8.1 | 5.6 | $5.2 \ddagger$ | 7.3 | 7.0 | 7.1 | ＋0．1 |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 7.5 | 6.7 | 7.6 | 8.0 | 9.2 | 10.5 | 9.9 | 8.9 | 9.3 | 10.7 | 9.8 | 9.8 | 6.2 | 6.2 | 6.5 | 6.8 | 7.5 | 5.4 | 6.3 | 6.9 | 6.0 | $5.9 \ddagger$ | 7.5 | 7.3 | 6.6 | －0．7 |
| Other MSA | 7.9 | 8.0 | 9.5 | 10.8 | 12.8 | 12.8 | 11.5 | 10.3 | 10.6 | 9.9 | 11.1 | 11.0 | 9.5 | 9.6 | 8.0 | 8.3 | 8.0 | 6.6 | 7.7 | 8.0 | 6.4 | 6．5才 | 8.4 | 7.3 | 6.7 | －0．6 |
| Non－MSA | 9.3 | 10.0 | 11.6 | 11.2 | 13.3 | 13.7 | 15.5 | 13.8 | 11.5 | 13.6 | 15.1 | 11.2 | 12.2 | 9.2 | 9.0 | 8.7 | 9.0 | 7.2 | 7.3 | 8.1 | 8.0 | $7.3 \ddagger$ | 7.3 | 8.9 | 7.6 | －1．3 |
| Parental Education：${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 10.0 | 11.9 | 12.3 | 10.8 | 14.3 | 15.1 | 12.2 | 12.6 | 10.7 | 13.3 | 12.3 | 13.1 | 10.9 | 9.2 | 8.9 | 9.3 | 7.9 | 7.8 | 9.8 | 9.6 | 6.6 | $9.8 \ddagger$ | 10.9 | 9.5 | 9.5 | 0.0 |
| 2．5－3．0 | 9.7 | 8.9 | 10.5 | 11.6 | 14.2 | 13.0 | 14.1 | 12.8 | 11.3 | 12.9 | 13.6 | 12.8 | 11.2 | 9.9 | 8.9 | 9.0 | 10.2 | 7.6 | 8.0 | 8.5 | 7.9 | $6.8 \ddagger$ | 9.9 | 8.7 | 8.0 | －0．7 |
| 3．5－4．0 | 7.9 | 8.4 | 10.5 | 11.1 | 12.4 | 14.1 | 13.5 | 11.1 | 11.2 | 12.2 | 12.6 | 11.1 | 9.9 | 10.1 | 8.1 | 9.1 | 8.9 | 7.7 | 7.8 | 8.3 | 7.3 | 6．7 $\ddagger$ | 8.2 | 8.7 | 8.5 | －0．2 |
| 4．5－5．0 | 7.4 | 6.6 | 7.5 | 8.9 | 10.7 | 10.7 | 10.6 | 9.0 | 9.8 | 9.7 | 10.5 | 9.5 | 7.6 | 7.2 | 7.4 | 6.6 | 6.9 | 5.4 | 6.0 | 6.9 | 5.8 | 6．1才 | 7.3 | 6.5 | 6.1 | －0．4 |
| 5．5－6．0（High） | 6.9 | 6.9 | 8.3 | 7.3 | 8.8 | 10.1 | 9.2 | 9.4 | 9.8 | 8.8 | 9.2 | 8.1 | 6.4 | 6.3 | 6.6 | 6.8 | 6.0 | 4.3 | 6.5 | 6.3 | 5.3 | 5．7才 | 5.6 | 6.2 | 5.0 | －1．2 |
| Race／Ethnicity（2－year average）：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | － | 9.4 | 10.1 | 11.0 | 12.4 | 13.9 | 14.2 | 13.6 | 12.6 | 12.7 | 13.4 | 13.4 | 12.2 | 10.6 | 9.5 | 9.2 | 9.4 | 8.7 | 7.8 | 8.5 | 8.3 | 7.4 | 7．1才 | 8.5 | 7.7 | －0．8 |
| African American | － | 2.8 | 3.0 | 4.0 | 4.0 | 3.4 | 3.1 | 2.9 | 2.8 | 2.5 | 2.9 | 3.5 | 2.8 | 2.7 | 3.0 | 2.8 | 2.3 | 2.3 | 2.3 | 2.8 | 3.0 | 2.9 | 2．6 $\ddagger$ | 5.3 | 4.8 | －0．5 |
| Hispanic | － | 6.2 | 7.0 | 7.7 | 8.9 | 10.3 | 9.8 | 8.9 | 8.8 | 9.1 | 8.3 | 7.9 | 7.7 | 7.3 | 7.3 | 6.3 | 5.8 | 6.0 | 6.1 | 6.3 | 6.1 | 6.1 | 4．7才 | 7.4 | 6.7 | －0．7 |

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

 changed slightly in half of the questionnaire forms．An examination of the data did not show any effect from the wording changes．In 2010 the remaining forms were changed in a like manner．In 2013 the question wording was changed two of the 8 th and 10 th grade

 included the new，updated wording．
${ }^{\text {a }}$ Only drug use not under a doctor＇s orders is included here．
${ }^{\mathrm{b}}$ Parental education is an average score of mother＇s education and father＇s education．See appendix B for details．
 data are based on the 2012 data combined with the 2013 data from the unchanged forms which were double weighted．The 2014 race／ethnicity data are based on the 2013 changed data which were double weighted and the 2014 data．

TABLE 63
AMPHETAMINES: ${ }^{\text {a,b }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | cont.) |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | 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 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 15.6 | 15.8 | 16.0 | 16.9 | 18.4 | 19.7 | 24.8 | 19.6 | 17.2 | 16.8 | 14.9 | 12.7 | 11.8 | 10.8 | 11.1 | 9.4 | 8.3 | 7.2 | 8.2 | 9.2 |  |
| Female | 16.5 | 15.4 | 16.4 | 17.1 | 17.8 | 21.8 | 26.9 | 20.3 | 17.9 | 18.2 | 16.4 | 13.8 | 12.4 | 10.9 | 10.5 | 8.6 | 7.9 | 6.9 | 8.5 | 9.4 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 19.3 | 20.5 | 20.0 | 21.8 | 25.8 | 30.9 | 23.7 | 20.9 | 22.2 | 19.7 | 17.7 | 16.0 | 13.9 | 15.1 | 12.6 | 11.0 | 9.7 | 11.0 | 13.4 |  |
| Complete 4 years | - | 11.9 | 11.5 | 13.7 | 14.5 | 16.5 | 22.3 | 16.8 | 14.5 | 14.2 | 13.3 | 10.9 | 10.2 | 9.5 | 9.1 | 7.4 | 7.0 | 6.1 | 7.6 | 8.0 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 16.5 | 14.7 | 16.8 | 19.6 | 22.0 | 22.0 | 28.8 | 21.5 | 17.9 | 19.0 | 16.8 | 12.6 | 10.4 | 8.4 | 9.0 | 6.3 | 6.5 | 6.2 | 8.1 | 7.4 |  |
| Midwest | 18.7 | 17.8 | 19.0 | 18.2 | 18.3 | 22.2 | 30.1 | 24.1 | 20.4 | 20.3 | 17.3 | 15.2 | 13.5 | 12.2 | 13.3 | 10.7 | 10.1 | 8.4 | 8.9 | 12.0 |  |
| South | 12.6 | 13.7 | 13.2 | 14.0 | 14.0 | 17.7 | 19.6 | 16.4 | 15.4 | 15.1 | 12.8 | 11.5 | 11.5 | 10.8 | 9.9 | 8.9 | 7.9 | 6.7 | 8.3 | 9.0 |  |
| West | 18.5 | 17.2 | 16.0 | 17.8 | 20.7 | 22.1 | 26.6 | 18.7 | 18.2 | 16.9 | 17.3 | 15.0 | 13.4 | 11.8 | 11.1 | 10.2 | 7.8 | 6.9 | 8.3 | 8.4 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 19.6 | 15.4 | 15.3 | 17.7 | 19.5 | 21.9 | 28.0 | 21.6 | 18.1 | 17.7 | 15.0 | 11.2 | 10.9 | 8.8 | 7.1 | 6.5 | 6.2 | 6.0 | 6.5 | 7.8 |  |
| Other MSA | 15.5 | 16.3 | 17.1 | 17.5 | 18.9 | 20.8 | 25.5 | 20.7 | 19.6 | 17.1 | 15.7 | 14.2 | 11.9 | 11.9 | 11.4 | 9.6 | 8.4 | 6.7 | 8.5 | 9.4 |  |
| Non-MSA | 14.8 | 15.4 | 15.9 | 16.0 | 16.6 | 19.9 | 25.1 | 18.8 | 15.6 | 18.5 | 16.6 | 14.1 | 14.0 | 11.3 | 13.3 | 10.6 | 9.5 | 9.0 | 9.8 | 10.9 |  |
| Parental Education: ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 15.7 | 13.4 | 14.5 | 14.9 | 16.0 | 19.1 | 22.3 | 18.7 | 15.7 | 17.1 | 14.5 | 11.9 | 11.9 | 9.8 | 10.4 | 7.6 | 9.5 | 7.0 | 9.0 | 10.4 |  |
| 2.5-3.0 | 16.7 | 16.9 | 17.4 | 17.3 | 18.4 | 22.2 | 26.7 | 21.9 | 19.6 | 19.2 | 17.0 | 15.2 | 13.3 | 11.1 | 11.7 | 9.7 | 9.1 | 7.7 | 8.6 | 10.3 |  |
| 3.5-4.0 | 14.9 | 16.6 | 16.1 | 18.2 | 19.6 | 21.5 | 26.9 | 21.7 | 19.4 | 18.5 | 17.2 | 14.3 | 12.6 | 11.8 | 12.3 | 10.6 | 8.9 | 7.7 | 9.1 | 9.4 |  |
| 4.5-5.0 | 14.5 | 16.8 | 15.9 | 16.9 | 17.1 | 20.0 | 26.2 | 19.1 | 18.9 | 15.9 | 15.1 | 12.0 | 11.7 | 10.3 | 9.4 | 8.1 | 6.5 | 6.3 | 8.0 | 9.5 |  |
| 5.5-6.0 (High) | 12.0 | 14.6 | 16.0 | 17.2 | 20.4 | 17.9 | 26.8 | 20.5 | 16.1 | 14.0 | 10.9 | 10.1 | 10.4 | 10.0 | 9.1 | 7.3 | 5.7 | 5.8 | 7.6 | 7.1 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 17.3 | 18.2 | 19.2 | 21.3 | 26.4 | 23.6 | 22.3 | 20.5 | 18.9 | 16.4 | 14.3 | 13.0 | 12.4 | 11.4 | 9.8 | 8.8 | 9.0 | 10.4 |  |
| African American | - | - | 5.3 | 4.7 | 4.2 | 5.3 | 5.8 | 6.0 | 5.7 | 4.7 | 4.3 | 4.0 | 3.8 | 3.9 | 3.6 | 3.1 | 2.7 | 2.2 | 2.3 | 3.4 |  |
| Hispanic | - | - | 12.3 | 12.2 | 12.8 | 14.5 | 17.5 | 12.3 | 11.5 | 13.2 | 14.6 | 10.8 | 8.7 | 9.6 | 9.0 | 7.0 | 6.1 | 6.0 | 6.2 | 6.4 |  |

(Table continued on next page.)

## TABLE 63 （cont．）

## AMPHETAMINES：${ }^{\text {a，b }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | $\underline{2003}$ | 2004 | $\underline{2005}$ | $\underline{2006}$ | 2007 | 2008 | 2009 | 2010 | 2011 | $\underline{2012}$ | $\underline{2013}$ | 2014 | 2015 |  |
| Approximate weighted $N=$ | 15，400 | 14，300 | 15，400 | 15，200 | 13，600 | 12，800 | 12，800 | 12，900 | 14，600 | 14，600 | 14，700 | 14，200 | 14，500 | 14，000 | 13，700 | 14，400 | 14，100 | 13，700 | 12，600 | 12，400 | 12，900 |  |
| Total | 9.3 | 9.5 | 10.2 | 10.1 | 10.2 | 10.5 | 10.9 | 11.1 | 9.9 | 10.0 | 8.6 | 8.1 | 7.5 | 6.8 | 6.6 | 7.4 | 8.2 | 7．9才 | 9.2 | 8.1 | 7.7 | －0．4 |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 9.5 | 9.6 | 10.1 | 10.3 | 10.6 | 10.4 | 10.9 | 11.3 | 9.8 | 9.9 | 9.1 | 7.4 | 7.4 | 6.5 | 7.5 | 8.3 | 8.8 | 8．2才 | 10.0 | 8.8 | 8.1 | －0．7 |
| Female | 8.9 | 8.8 | 10.2 | 9.8 | 9.6 | 10.5 | 10.6 | 10.7 | 9.5 | 9.9 | 7.9 | 8.5 | 7.3 | 6.8 | 5.7 | 6.4 | 7.4 | $7.5 \ddagger$ | 7.9 | 7.3 | 7.1 | －0．3 |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 12.3 | 12.8 | 14.1 | 13.6 | 12.7 | 13.9 | 14.4 | 14.8 | 14.4 | 13.3 | 11.5 | 10.6 | 10.3 | 10.7 | 8.4 | 10.5 | 11.6 | 8．9\＃ | 13.1 | 9.5 | 9.3 | －0．2 |
| Complete 4 years | 8.3 | 8.4 | 8.9 | 9.0 | 9.5 | 9.6 | 9.8 | 10.1 | 8.4 | 8.9 | 7.8 | 7.5 | 6.7 | 5.7 | 6.1 | 6.7 | 7.4 | $7.6 \ddagger$ | 8.4 | 7.6 | 7.3 | －0．2 |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 9.6 | 10.4 | 11.1 | 9.0 | 9.9 | 10.6 | 12.0 | 11.5 | 9.7 | 9.5 | 7.4 | 8.5 | 7.5 | 6.5 | 6.7 | 8.6 | 7.1 | $7.0 \ddagger$ | 8.1 | 7.1 | 6.6 | －0．4 |
| Midwest | 9.5 | 10.0 | 10.8 | 11.0 | 10.5 | 10.4 | 12.7 | 11.3 | 10.3 | 10.2 | 10.3 | 7.6 | 8.2 | 6.9 | 7.8 | 8.1 | 8.6 | $9.0 \ddagger$ | 10.7 | 8.9 | 9.0 | ＋0．1 |
| South | 9.2 | 9.1 | 9.8 | 10.4 | 10.8 | 10.2 | 9.5 | 11.7 | 9.7 | 10.3 | 9.4 | 8.8 | 7.9 | 7.1 | 6.5 | 6.9 | 8.1 | $7.0 \ddagger$ | 9.3 | 8.9 | 7.5 | －1．4 |
| West | 8.9 | 8.3 | 9.1 | 9.6 | 8.8 | 10.9 | 9.7 | 9.6 | 9.7 | 9.5 | 6.1 | 7.0 | 5.8 | 6.3 | 5.2 | 6.5 | 8.7 | 8．5才 | 8.5 | 7.0 | 7.7 | ＋0．6 |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 9.1 | 7.9 | 8.9 | 9.0 | 7.0 | 8.3 | 10.6 | 10.7 | 7.5 | 8.0 | 7.8 | 8.7 | 6.7 | 6.2 | 6.3 | 6.8 | 7.4 | $9.2 \ddagger$ | 8.5 | 7.5 | 7.7 | ＋0．2 |
| Other MSA | 8.5 | 8.9 | 9.5 | 9.9 | 10.8 | 10.9 | 10.8 | 11.0 | 10.5 | 10.6 | 8.9 | 7.6 | 7.4 | 6.7 | 7.0 | 8.0 | 8.7 | $7.8 \ddagger$ | 10.2 | 9.0 | 7.8 | －1．1 |
| Non－MSA | 10.8 | 11.9 | 13.0 | 12.2 | 12.4 | 12.4 | 11.4 | 12.1 | 11.7 | 11.1 | 8.9 | 8.2 | 8.6 | 7.5 | 6.2 | 6.8 | 8.1 | 6．1才 | 7.9 | 7.0 | 7.5 | ＋0．5 |
| Parental Education：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 9.9 | 8.1 | 9.8 | 9.7 | 9.9 | 11.0 | 8.9 | 8.1 | 10.6 | 7.5 | 6.1 | 8.2 | 7.5 | 7.3 | 5.5 | 5.0 | 6.8 | $6.0 \ddagger$ | 7.9 | 6.8 | 6.4 | －0．4 |
| 2．5－3．0 | 9.9 | 10.5 | 10.3 | 10.6 | 11.3 | 11.0 | 12.2 | 11.4 | 9.9 | 11.0 | 9.2 | 8.2 | 7.6 | 7.3 | 7.3 | 7.2 | 8.1 | $7.8 \ddagger$ | 10.1 | 8.9 | 7.3 | －1．6 |
| 3．5－4．0 | 9.1 | 9.3 | 10.8 | 11.4 | 10.8 | 10.6 | 11.6 | 12.3 | 10.7 | 12.3 | 9.5 | 8.9 | 7.6 | 6.5 | 7.3 | 7.9 | 8.3 | 8．0才 | 9.0 | 7.8 | 7.7 | －0．1 |
| 4．5－5．0 | 9.2 | 8.9 | 9.4 | 9.4 | 9.7 | 10.3 | 10.7 | 11.1 | 9.4 | 8.2 | 8.5 | 7.8 | 7.4 | 6.2 | 6.3 | 8.1 | 7.6 | 8．7才 | 10.0 | 8.5 | 8.5 | 0.0 |
| 5．5－6．0（High） | 8.1 | 9.1 | 10.2 | 8.7 | 8.4 | 10.2 | 8.7 | 10.2 | 7.7 | 8.4 | 7.4 | 7.0 | 7.1 | 7.1 | 5.6 | 7.5 | 9.7 | 8．4 $\ddagger$ | 9.3 | 8.6 | 9.5 | ＋0．9 |
| Race／Ethnicity（2－year average）：${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 10.7 | 10.5 | 11.4 | 12.1 | 11.9 | 11.9 | 12.6 | 13.2 | 12.4 | 11.6 | 11.0 | 9.9 | 9.3 | 8.7 | 8.1 | 8.6 | 9.6 | 10.0 | 10．1才 | 9.8 | 9.1 | －0．7 |
| African American | 3.4 | 2.9 | 2.8 | 2.8 | 2.5 | 2.6 | 3.0 | 2.9 | 2.8 | 2.4 | 2.4 | 2.6 | 2.5 | 2.2 | 2.3 | 2.8 | 2.9 | 2.9 | 3．3才 | 5.9 | 4.3 | －1．6 ss |
| Hispanic | 7.1 | 7.8 | 7.3 | 7.0 | 7.6 | 9.2 | 9.2 | 7.9 | 6.8 | 7.0 | 6.7 | 6.4 | 5.8 | 4.7 | 4.4 | 4.4 | 4.8 | 4.7 | $6.3 \ddagger$ | 6.9 | 6.5 | －0．4 |
| Source．The Monitoring the Future study，the University of Michigan． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes．＇$\ddagger$＇indicates some change in the question．See relevant footnote．See relevant figure to assess the impact of the wording changes．Level of significance of difference between the two most recent classes： $\mathrm{s}=.05$ ，ss $=.01$ ， sss＝．001．＇－＇indicates data not available．Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding．See Table S3 for the number of subgroup cases． See appendix B for definition of variables in table．In 2013 the question wording was changed slightly in four of the six questionnaire forms．Vyvanse was added to the list of examples in one questionnaire form． 2013 data presented here are based on the unchanged forms only；$N$ is two sixths of $N$ indicated． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {a }}$ Only drug use not under a doctor＇s orders is included here． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  <br>  <br>  <br>  <br>  proportionally $21 \%$ higher in 12th grade． 2013 data are based on the changed forms only；$N$ is one half of $N$ indicated．Beginning in 2014 all questionnaires included the new，updated wording． <br>  <br>  <br>  and the 2014 data． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 64
RITALIN: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 8

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1991- \\ \underline{2000} \end{gathered}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | - | 16,200 | 15,100 | 16,500 | 17,000 | 16,800 | 16,500 | 16,100 | 15,700 | 15,000 | 15,300 | 16,000 | 15,100 | 14,600 | 14,600 | 14,400 |  |
| Total | - | 2.9 | 2.8 | 2.6 | 2.5 | 2.4 | 2.6 | 2.1 | 1.6 | 1.8 | 1.5 | 1.3 | 0.7 | 1.1 | 0.9 | 0.6 | -0.3 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 3.2 | 3.2 | 2.9 | 2.6 | 2.4 | 2.7 | 1.9 | 1.5 | 2.4 | 1.5 | 1.1 | 0.5 | 1.3 | 0.8 | 0.8 | 0.0 |
| Female | - | 2.6 | 2.5 | 2.3 | 2.4 | 2.4 | 2.5 | 2.3 | 1.5 | 1.4 | 1.5 | 1.3 | 0.8 | 0.8 | 1.0 | 0.5 | -0.5 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 8.1 | 7.7 | 6.8 | 8.8 | 7.5 | 9.0 | 4.2 | 5.7 | 5.3 | 5.8 | 3.7 | 3.0 | 3.2 | 4.6 | 2.6 | -2.0 |
| Complete 4 years | - | 2.4 | 2.2 | 2.1 | 1.8 | 1.8 | 1.9 | 1.8 | 1.2 | 1.6 | 1.1 | 1.1 | 0.5 | 0.9 | 0.6 | 0.4 | -0.2 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 1.5 | 2.8 | 1.7 | 1.6 | 2.0 | 2.0 | 0.9 | 0.4 | 1.2 | 1.8 | 1.5 | 0.1 | 1.3 | 1.3 | 0.2 | -1.1 s |
| Midwest | - | 3.0 | 3.0 | 2.9 | 2.4 | 1.9 | 3.2 | 2.4 | 2.0 | 2.3 | 1.8 | 1.2 | 0.1 | 0.7 | 0.2 | 0.5 | +0.3 |
| South | - | 3.5 | 2.8 | 2.9 | 3.0 | 3.0 | 2.5 | 2.5 | 2.2 | 1.5 | 1.4 | 1.4 | 1.4 | 1.2 | 0.9 | 0.8 | -0.1 |
| West | - | 2.9 | 2.5 | 2.2 | 2.5 | 2.1 | 2.7 | 1.6 | 1.2 | 2.2 | 1.2 | 1.0 | 0.5 | 1.3 | 1.4 | 0.7 | -0.7 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 2.2 | 2.3 | 2.3 | 1.7 | 1.5 | 2.3 | 1.2 | 1.1 | 1.6 | 1.1 | 0.8 | 0.8 | 0.9 | 1.0 | 0.6 | -0.4 |
| Other MSA | - | 2.9 | 3.1 | 2.8 | 3.0 | 3.4 | 3.0 | 2.7 | 1.8 | 1.9 | 1.9 | 1.8 | 0.8 | 1.2 | 1.0 | 0.7 | -0.2 |
| Non-MSA | - | 3.5 | 2.8 | 2.4 | 2.4 | 1.7 | 2.3 | 2.0 | 1.9 | 2.0 | 1.3 | 0.9 | 0.2 | 1.0 | 0.8 | 0.3 | -0.4 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 4.8 | 5.3 | 2.5 | 4.2 | 5.2 | 6.5 | 1.9 | 4.4 | 4.6 | 2.3 | 2.7 | 0.7 | 2.3 | 2.0 | 0.8 | -1.2 |
| 2.5-3.0 | - | 3.3 | 4.0 | 2.8 | 2.9 | 2.7 | 3.1 | 2.3 | 2.2 | 2.2 | 1.4 | 1.6 | 0.8 | 1.2 | 0.7 | 1.1 | +0.4 |
| 3.5-4.0 | - | 3.5 | 3.3 | 3.3 | 2.7 | 2.7 | 2.6 | 2.4 | 1.7 | 2.1 | 0.5 | 1.5 | 1.1 | 1.2 | 1.0 | 0.4 | -0.7 |
| 4.5-5.0 | - | 2.4 | 1.5 | 1.8 | 2.1 | 1.5 | 2.0 | 1.8 | 1.0 | 1.3 | 1.4 | 0.9 | 0.3 | 1.2 | 1.0 | 0.4 | -0.6 |
| 5.5-6.0 (High) | - | 2.1 | 1.7 | 2.1 | 1.9 | 1.6 | 1.2 | 1.8 | 0.7 | 1.4 | 1.6 | 0.8 | 0.6 | 0.4 | 0.4 | 0.3 | -0.2 |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 3.0 | 2.8 | 2.7 | 2.5 | 2.6 | 2.4 | 1.9 | 1.7 | 1.7 | 1.4 | 1.0 | 0.7 | 0.8 | 0.6 | -0.2 |
| African American | - | - | 1.0 | 1.3 | 1.5 | 1.6 | 1.8 | 1.8 | 1.8 | 1.3 | 1.0 | 1.1 | 1.0 | 1.4 | 1.2 | 0.7 | -0.5 |
| Hispanic | - | - | 3.8 | 2.7 | 2.5 | 3.3 | 3.1 | 2.8 | 2.1 | 1.5 | 1.5 | 1.3 | 1.2 | 1.3 | 1.3 | 0.7 | -0.6 s |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01$, $s s s=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table Data based on one of four forms; $N$ is one third of $N$ indicated in Table S1. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {a }}$ Only drug use not under a doctor's orders is included here. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {b }}$ Parental education is an average score of mother's education and father's education. See appendix B for details. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\mathrm{c}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

# TABLE 65 

RITALIN: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 10


# TABLE 66 

## RITALIN: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline 1975- \\ \underline{2000} \end{gathered}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | 2007 | 2008 | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | 2014 | $\underline{2015}$ |  |
| Approximate weighted $N=$ | - | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | - | 5.1 | 4.0 | 4.0 | 5.1 | 4.4 | 4.4 | 3.8 | 3.4 | 2.1 | 2.7 | 2.6 | 2.6 | 2.3 | 1.8 | 2.0 | +0.2 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 6.0 | 5.1 | 5.5 | 6.0 | 5.4 | 4.5 | 3.6 | 3.7 | 3.2 | 3.5 | 2.7 | 2.7 | 2.9 | 1.9 | 2.4 | +0.6 |
| Female | - | 4.1 | 2.8 | 2.6 | 4.0 | 3.3 | 3.8 | 3.5 | 2.9 | 1.1 | 1.7 | 2.3 | 1.9 | 1.6 | 1.5 | 1.4 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 6.4 | 7.7 | 4.4 | 6.8 | 5.3 | 5.3 | 5.6 | 4.2 | 3.2 | 5.4 | 3.1 | 2.9 | 4.1 | 1.4 | 2.4 | +1.0 |
| Complete 4 years | - | 4.7 | 3.0 | 3.7 | 4.4 | 4.1 | 4.0 | 3.3 | 3.2 | 1.8 | 2.1 | 2.5 | 2.3 | 1.9 | 1.6 | 1.8 | +0.2 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 4.7 | 4.5 | 4.6 | 4.1 | 4.7 | 6.1 | 4.1 | 4.2 | 1.3 | 3.5 | 2.1 | 2.5 | 2.0 | 1.6 | 1.6 | 0.0 |
| Midwest | - | 7.4 | 5.4 | 3.8 | 6.0 | 5.3 | 3.8 | 5.2 | 3.4 | 3.0 | 2.9 | 3.0 | 2.4 | 2.0 | 2.1 | 2.0 | 0.0 |
| South | - | 4.1 | 3.4 | 3.5 | 4.7 | 4.6 | 4.3 | 3.0 | 3.4 | 2.1 | 2.1 | 2.7 | 2.8 | 2.3 | 2.5 | 1.8 | -0.7 |
| West | - | 3.8 | 2.6 | 4.4 | 5.5 | 2.7 | 3.8 | 3.5 | 2.8 | 1.7 | 2.8 | 2.2 | 2.5 | 2.8 | 0.4 | 2.5 | +2.1 sss |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 7.2 | 3.9 | 3.2 | 4.2 | 4.1 | 5.4 | 4.0 | 4.1 | 2.4 | 2.7 | 2.2 | 2.4 | 1.9 | 2.1 | 2.0 | -0.1 |
| Other MSA | - | 3.7 | 4.0 | 5.1 | 5.6 | 5.1 | 3.9 | 3.4 | 3.5 | 2.2 | 2.8 | 2.6 | 2.4 | 2.5 | 1.8 | 1.6 | -0.2 |
| Non-MSA | - | 5.4 | 4.0 | 2.9 | 4.9 | 3.4 | 3.8 | 4.2 | 2.4 | 1.5 | 2.2 | 3.1 | 3.1 | 2.4 | 1.2 | 2.7 | +1.5 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 5.6 | 5.3 | 3.1 | 5.2 | 5.5 | 5.2 | 2.1 | 2.0 | 2.6 | 2.9 | 1.9 | 4.1 | 2.3 | 1.9 | 2.0 | 0.0 |
| 2.5-3.0 | - | 4.5 | 4.2 | 3.7 | 4.2 | 4.2 | 3.6 | 4.1 | 3.4 | 3.3 | 3.0 | 2.5 | 2.5 | 2.1 | 2.0 | 2.0 | +0.1 |
| 3.5-4.0 | - | 5.0 | 3.9 | 4.8 | 6.3 | 4.1 | 4.6 | 3.5 | 3.6 | 1.3 | 2.6 | 2.7 | 2.7 | 2.6 | 1.1 | 1.6 | +0.5 |
| 4.5-5.0 | - | 4.7 | 3.5 | 3.5 | 4.6 | 3.9 | 4.7 | 4.7 | 3.1 | 1.9 | 2.2 | 2.0 | 2.1 | 2.3 | 1.2 | 2.0 | +0.8 |
| 5.5-6.0 (High) | - | 6.6 | 3.9 | 4.0 | 4.5 | 6.0 | 4.6 | 2.7 | 4.5 | 1.7 | 2.4 | 3.3 | 2.0 | 1.3 | 3.3 | 1.9 | -1.4 |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 5.4 | 4.6 | 5.2 | 5.3 | 4.9 | 4.9 | 4.3 | 3.1 | 2.6 | 2.7 | 2.6 | 2.3 | 1.9 | 1.9 | 0.0 |
| African American | - | - | 0.8 | 1.2 | 1.2 | 2.0 | 2.3 | 1.8 | 1.5 | 1.5 | 2.1 | 1.9 | 1.6 | 2.3 | 2.2 | 2.3 | +0.1 |
| Hispanic | - | - | 3.1 | 3.3 | 3.6 | 3.6 | 3.9 | 2.7 | 1.5 | 1.9 | 2.1 | 2.3 | 2.7 | 2.3 | 1.6 | 1.4 | -0.2 |
| Notes. Level of significance of difference between the two most recent classes: $s=.05, \mathrm{ss}=.01$, $\mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms; $N$ is two sixths of $N$ indicated in Table S3. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. ${ }^{\text {a }}$ anly drug use not under a doctor's orders is included here. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {b }}$ Parental education is an average score of mother's education and father's education. See appendix B for details. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {c }}$ To derive percentages for each racial subgroup, <br> See appendix B for details on how race/ethnicity | , data fo <br> $y$ is defin | the spec d. | ified year | and the pr | evious ye | $a r$ have be | een combi | ned to inc | rease sub | group sam | mple sizes | and thus | provide m | more stable | estimate |  |  |

TABLE 67

## ADDERALL: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use <br> by Subgroups in Grades 8, 10, and 12

Percentage who used in last 12 months

|  | Percentage who used in last 12 mo |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 8 th G | raders |  |  |  |  |  |  | 10 th G | Graders |  |  |  |  |  |  | 12th G | Graders |  |  |  |
|  | $\underline{2009}$ | 2010 | 2011 | 2012 | 2013 | 2014 | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ | 2009 | 2010 | 2011 | 2012 | $\underline{2013}$ | 2014 | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ | $\underline{2009}$ | 2010 | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| Approximate weighted $N=$ | 15,000 | 15,300 | 16,000 | 15,100 | 14,600 | 14,600 | 14,400 |  | 15,900 | 15,200 | 14,900 | 15,000 | 12,900 | 13,000 | 15,600 |  | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 2.0 | 2.3 | 1.7 | 1.7 | 1.8 | 1.3 | 1.0 | -0.2 | 5.7 | 5.3 | 4.6 | 4.5 | 4.4 | 4.6 | 5.2 | +0.6 | 5.4 | 6.5 | 6.5 | 7.6 | 7.4 | 6.8 | 7.5 | +0.7 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 2.8 | 2.5 | 1.5 | 1.3 | 1.6 | 1.0 | 1.2 | +0.2 | 6.1 | 5.5 | 5.4 | 5.0 | 5.2 | 4.7 | 5.3 | +0.6 | 7.4 | 7.5 | 7.4 | 8.0 | 8.7 | 7.7 | 8.0 | +0.3 |
| Female | 1.3 | 2.1 | 1.7 | 1.9 | 1.9 | 1.4 | 1.0 | -0.4 | 5.3 | 4.9 | 3.8 | 4.1 | 3.7 | 4.4 | 5.2 | +0.7 | 3.8 | 5.5 | 5.5 | 6.9 | 6.0 | 6.0 | 6.9 | +0.8 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 6.1 | 5.4 | 5.1 | 4.2 | 7.4 | 4.9 | 3.3 | -1.6 | 15.1 | 10.6 | 11.5 | 9.3 | 8.1 | 10.4 | 9.2 | -1.2 | 7.0 | 10.9 | 7.5 | 7.8 | 9.2 | 5.4 | 8.6 | +3.2 |
| Complete 4 years | 1.7 | 2.0 | 1.4 | 1.5 | 1.4 | 1.0 | 0.9 | -0.1 | 4.8 | 4.6 | 3.7 | 4.0 | 4.0 | 4.0 | 4.8 | +0.8 | 5.0 | 5.7 | 6.4 | 7.4 | 6.8 | 7.0 | 7.0 | +0.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 1.0 | 1.5 | 1.4 | 1.0 | 2.2 | 1.0 | 1.1 | +0.1 | 4.2 | 4.1 | 4.9 | 4.0 | 5.4 | 3.9 | 6.1 | +2.2 | 5.1 | 7.7 | 7.2 | 7.6 | 5.2 | 7.2 | 6.9 | -0.3 |
| Midwest | 2.3 | 3.1 | 2.3 | 1.0 | 0.8 | 0.9 | 0.6 | -0.3 | 8.4 | 7.6 | 6.3 | 5.3 | 5.8 | 6.1 | 5.2 | -0.9 | 7.9 | 7.3 | 7.7 | 10.1 | 8.7 | 9.2 | 10.3 | +1.1 |
| South | 2.3 | 2.3 | 1.7 | 2.6 | 2.1 | 1.6 | 1.5 | -0.1 | 6.5 | 5.2 | 4.6 | 5.5 | 4.1 | 4.9 | 5.3 | +0.4 | 5.1 | 6.2 | 6.3 | 6.4 | 8.3 | 7.0 | 6.8 | -0.2 |
| West | 1.8 | 1.9 | 1.2 | 1.3 | 2.0 | 1.3 | 0.6 | -0.7 | 3.4 | 3.7 | 2.3 | 2.5 | 2.9 | 3.4 | 4.2 | +0.9 | 3.2 | 5.3 | 5.3 | 6.6 | 6.3 | 3.9 | 6.4 | +2.5 s |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 1.9 | 1.7 | 0.7 | 2.1 | 1.5 | 1.3 | 0.9 | -0.4 | 6.2 | 6.0 | 4.8 | 3.7 | 4.3 | 5.4 | 3.8 | -1.6 | 5.9 | 7.0 | 4.7 | 9.1 | 7.2 | 7.8 | 7.5 | -0.3 |
| Other MSA | 2.0 | 2.8 | 2.5 | 1.4 | 1.7 | 1.3 | 1.4 | +0.1 | 5.9 | 5.0 | 4.1 | 4.4 | 4.7 | 4.3 | 6.0 | +1.7 | 5.5 | 6.5 | 7.9 | 7.4 | 8.1 | 7.2 | 7.3 | 0.0 |
| Non-MSA | 2.0 | 2.0 | 1.5 | 1.5 | 2.3 | 1.2 | 0.5 | -0.7 | 4.8 | 4.8 | 5.1 | 5.7 | 4.0 | 4.2 | 5.6 | +1.4 | 4.5 | 6.0 | 6.1 | 6.2 | 5.7 | 4.3 | 8.0 | +3.7 s |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 5.3 | 3.5 | 3.7 | 1.1 | 2.2 | 1.9 | 1.9 | 0.0 | 7.9 | 6.7 | 4.7 | 5.4 | 4.2 | 4.4 | 5.8 | +1.4 | 4.0 | 5.2 | 5.6 | 5.8 | 7.0 | 2.7 | 5.7 | +3.0 s |
| 2.5-3.0 | 1.8 | 2.5 | 2.6 | 1.9 | 2.1 | 1.3 | 1.0 | -0.3 | 6.6 | 6.0 | 5.4 | 6.3 | 5.2 | 4.8 | 5.2 | +0.3 | 5.7 | 6.0 | 7.2 | 6.3 | 5.7 | 7.3 | 7.0 | -0.3 |
| 3.5-4.0 | 2.9 | 2.0 | 1.6 | 1.5 | 2.3 | 1.3 | 1.3 | +0.1 | 5.4 | 6.2 | 4.9 | 4.8 | 4.5 | 5.8 | 6.8 | +1.1 | 6.1 | 6.7 | 5.9 | 8.4 | 8.4 | 6.6 | 7.9 | +1.3 |
| 4.5-5.0 | 1.4 | 2.4 | 1.3 | 1.4 | 1.8 | 1.0 | 1.1 | +0.1 | 4.9 | 3.8 | 4.5 | 4.1 | 4.7 | 3.9 | 5.1 | +1.2 | 5.5 | 7.0 | 7.1 | 9.4 | 7.7 | 7.7 | 7.8 | +0.1 |
| 5.5-6.0 (High) | 1.1 | 1.2 | 0.7 | 1.7 | 0.6 | 1.0 | 0.3 | -0.8 s | 6.7 | 4.6 | 3.2 | 2.9 | 3.2 | 4.2 | 4.0 | -0.2 | 4.7 | 7.0 | 6.2 | 6.6 | 8.6 | 8.8 | 8.5 | -0.3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 2.4 | 2.1 | 1.7 | 1.4 | 1.3 | 1.2 | -0.1 | - | 6.6 | 5.7 | 5.3 | 5.6 | 5.9 | 6.0 | +0.1 | - | 7.5 | 8.1 | 8.8 | 9.1 | 8.1 | 8.4 | +0.3 |
| African American | - | 1.2 | 1.5 | 1.4 | 1.6 | 1.3 | 1.1 | -0.2 | - | 2.2 | 2.7 | 1.7 | 2.0 | 3.0 | 3.5 | +0.5 | - | 2.9 | 2.2 | 2.1 | 3.6 | 4.6 | 5.9 | +1.3 |
| Hispanic | - | 1.9 | 1.9 | 1.7 | 1.8 | 1.8 | 0.9 | -0.9 s | - | 4.2 | 3.9 | 3.8 | 2.5 | 2.0 | 3.3 | +1.3 s | - | 3.1 | 2.9 | 3.7 | 4.8 | 4.9 | 4.4 | -0.5 |

Source. The Monitoring the Future study, the University of Michigan.
 variables in table. Data for 8th and 10th graders based on one of four forms; N is one third of N indicated in Tables D -S1 and D -S2. Data for 12 th graders based on two of six forms; $N$ is two sixths of $N$ indicated in Table S 3 .

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.
anly drug use not under a doctor's orders is included here.
${ }^{\mathrm{P}}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 68

## PROVIGIL: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use

 by Subgroups in Grade 12|  | Percentage who used in last 12 months |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2009 | 2010 | 2011 | 2012 | $\underline{2013}$ | 2014 | 2015 |  |
| Approximate weighted $N=$ | 13,700 | 14,400 | 14,100 | - | - | - | - |  |
| Total | 1.8 | 1.3 | 1.5 | - | - | - | - | - |
| Gender: |  |  |  |  |  |  |  |  |
| Male | 2.3 | 1.8 | 1.4 | - | - | - | - | - |
| Female | 1.3 | 0.6 | 1.3 | - | - | - | - | - |
| College Plans: |  |  |  |  |  |  |  |  |
| None or under 4 years | 4.0 | 4.0 | 2.5 | - | - | - | - | - |
| Complete 4 years | 1.3 | 0.8 | 1.1 | - | - | - | - | - |
| Region: |  |  |  |  |  |  |  |  |
| Northeast | 1.9 | 1.7 | 2.0 | - | - | - | - | - |
| Midwest | 2.0 | 1.7 | 1.0 | - | - | - | - | - |
| South | 1.9 | 1.2 | 1.7 | - | - | - | - | - |
| West | 1.4 | 0.9 | 1.2 | - | - | - | - | - |
| Population Density: |  |  |  |  |  |  |  |  |
| Large MSA | 1.9 | 1.0 | 1.4 | - | - | - | - | - |
| Other MSA | 1.7 | 1.5 | 1.3 | - | - | - | - | - |
| Non-MSA | 2.0 | 1.6 | 1.8 | - | - | - | - | - |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 3.8 | 1.7 | 2.4 | - | - | - | - | - |
| 2.5-3.0 | 2.0 | 1.6 | 2.0 | - | - | - | - | - |
| 3.5-4.0 | 1.7 | 1.2 | 1.6 | - | - | - | - | - |
| 4.5-5.0 | 1.2 | 0.8 | 0.5 | - | - | - | - | - |
| 5.5-6.0 (High) | 1.1 | 1.8 | 0.9 | - | - | - | - | - |
| Race/Ethnicity (2-year data): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |
| White | - | 1.5 | 1.3 | - | - | - | - | - |
| African American | - | 1.5 | 1.5 | - | - | - | - | - |
| Hispanic | - | 1.5 | 1.2 | - | - | - | - | - |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |
| Notes. ' - ' indicates data not ava estimates for the two most appendix $B$ for definition of Table S3. | Any app years is bles in ta | rent inco due to rou le. Data a | sistency <br> nding. See <br> re based | ween th able S3 two of | change or the nu forms; |  | the prev group cas of $N$ in | lence s. See dicated in |
| Caution: Limited sample sizes (see ${ }^{a}$ anly drug use not under a doctor's orde | s above) included | Use caut ere. | on in int | reting s | bgroup |  |  |  |
| ${ }^{\text {b }}$ Parental eduction is an average score of mother's education and father's education. See appendix B for details. |  |  |  |  |  |  |  |  |
| ${ }^{\mathrm{c}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defin |  |  |  |  |  |  |  |  |

TABLE 69
METHAMPHETAMINE: Trends in Annual Prevalence of Use by Subgroups in Grade 8

${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 70

## METHAMPHETAMINE: Trends in Annual Prevalence of Use by Subgroups in Grade 10

| Approximate weighted $N=$ | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1991- \\ 1998 \end{gathered}$ | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |  |
|  | - | 14,000 | 13,600 | 14,000 | 14,300 | 15,800 | 16,400 | 16,200 | 16,200 | 16,100 | 15,100 | 15,900 | 15,200 | 14,900 | 15,000 | 12,900 | 13,000 | 15,600 |  |
| Total | - | 4.6 | 4.0 | 3.7 | 3.9 | 3.3 | 3.0 | 2.9 | 1.8 | 1.6 | 1.5 | 1.6 | 1.6 | 1.4 | 1.0 | 1.0 | 0.8 | 0.8 | 0.0 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 4.5 | 4.5 | 3.8 | 3.9 | 3.0 | 2.7 | 2.6 | 1.7 | 1.4 | 1.4 | 1.4 | 1.5 | 1.3 | 1.1 | 1.0 | 0.7 | 0.6 | -0.1 |
| Female | - | 4.7 | 3.6 | 3.5 | 3.6 | 3.7 | 3.3 | 3.0 | 2.0 | 1.8 | 1.6 | 1.7 | 1.8 | 1.4 | 0.9 | 0.8 | 0.8 | 0.9 | +0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 9.1 | 8.8 | 7.0 | 9.1 | 9.4 | 6.0 | 7.3 | 5.8 | 3.9 | 3.6 | 4.6 | 4.8 | 4.6 | 4.1 | 2.4 | 3.6 | 3.4 | -0.2 |
| Complete 4 years | - | 3.9 | 3.3 | 3.1 | 3.0 | 2.3 | 2.6 | 2.2 | 1.3 | 1.2 | 1.2 | 1.3 | 1.2 | 1.0 | 0.7 | 0.9 | 0.5 | 0.5 | 0.0 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 5.1 | 4.1 | 2.3 | 1.5 | 2.1 | 2.5 | 3.0 | 1.5 | 1.4 | 0.5 | 1.3 | 1.4 | 2.0 | 1.0 | 0.4 | 0.1 | 0.3 | +0.1 |
| Midwest | - | 4.6 | 4.0 | 3.8 | 3.0 | 3.4 | 2.2 | 3.4 | 1.7 | 0.9 | 1.4 | 1.8 | 1.1 | 0.9 | 0.5 | 0.7 | 0.9 | 0.6 | -0.3 |
| South | - | 4.0 | 3.8 | 4.0 | 4.6 | 3.8 | 2.9 | 2.2 | 2.3 | 1.9 | 1.9 | 1.4 | 1.5 | 1.4 | 1.0 | 0.9 | 1.2 | 1.2 | -0.1 |
| West | - | 5.1 | 4.4 | 4.6 | 5.8 | 3.8 | 4.7 | 3.0 | 1.7 | 2.3 | 1.8 | 2.1 | 2.6 | 1.4 | 1.4 | 1.9 | 0.6 | 0.8 | +0.2 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 3.8 | 4.4 | 4.0 | 3.1 | 2.3 | 2.7 | 2.9 | 2.2 | 1.7 | 1.2 | 1.5 | 1.5 | 1.0 | 1.1 | 1.0 | 0.7 | 0.7 | 0.0 |
| Other MSA | - | 4.8 | 3.4 | 3.6 | 4.4 | 3.8 | 3.4 | 3.0 | 1.5 | 1.5 | 1.8 | 1.6 | 1.9 | 1.7 | 0.6 | 1.2 | 0.5 | 0.8 | +0.2 |
| Non-MSA | - | 5.2 | 4.8 | 3.6 | 3.7 | 3.7 | 2.5 | 2.5 | 2.1 | 1.8 | 1.3 | 1.6 | 1.3 | 1.4 | 1.7 | 0.6 | 1.6 | 0.9 | -0.7 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 7.2 | 7.0 | 5.6 | 6.2 | 7.3 | 4.5 | 4.2 | 3.8 | 3.8 | 2.6 | 3.7 | 3.4 | 2.9 | 2.5 | 1.9 | 1.2 | 1.0 | -0.2 |
| 2.5-3.0 | - | 4.2 | 4.3 | 4.6 | 4.9 | 4.1 | 3.7 | 3.8 | 2.7 | 1.6 | 2.3 | 2.7 | 2.3 | 1.2 | 1.7 | 1.4 | 0.4 | 1.0 | +0.6 |
| 3.5-4.0 | - | 4.8 | 4.3 | 3.2 | 3.7 | 3.2 | 3.3 | 2.0 | 1.4 | 1.7 | 1.0 | 1.4 | 1.9 | 1.3 | 0.7 | 1.0 | 1.2 | 1.1 | -0.1 |
| 4.5-5.0 | - | 4.8 | 3.5 | 3.6 | 2.4 | 2.2 | 2.3 | 3.2 | 1.4 | 1.0 | 1.6 | 0.7 | 0.8 | 1.3 | 0.8 | 0.3 | 0.4 | 0.6 | +0.2 |
| 5.5-6.0 (High) | - | 3.3 | 3.5 | 2.5 | 4.0 | 2.1 | 1.7 | 1.3 | 1.3 | 1.0 | 0.6 | 0.7 | 0.8 | 1.0 | 0.3 | 1.2 | 0.6 | 0.3 | -0.3 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 4.7 | 4.1 | 4.1 | 4.2 | 3.4 | 2.9 | 2.4 | 1.8 | 1.6 | 1.4 | 1.5 | 1.5 | 1.2 | 0.9 | 0.9 | 0.8 | -0.2 |
| African American | - | - | 0.4 | 1.0 | 1.1 | 0.6 | 0.8 | 1.1 | 1.0 | 0.8 | 0.5 | 0.4 | 0.6 | 0.7 | 0.3 | 0.3 | 0.6 | 0.9 | +0.2 |
| Hispanic | - | - | 3.9 | 3.0 | 4.4 | 4.6 | 4.6 | 5.0 | 3.3 | 1.9 | 2.3 | 2.7 | 2.5 | 1.9 | 1.8 | 2.1 | 1.2 | 1.0 | -0.2 |
| Notes. <br> Level of significance of difference between the two most recent classes: $s=.05, \mathrm{ss}=.01$, $\mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; $N$ is one third of $N$ indicated in Table S2. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {a }}$ Parental education is an average score of mother ${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, on how race/ethnicity is defined. | r's educa data for | tion and $f$ he specifie | ather's edu ed year and | ucation. S and the prev | ee appen <br> vious year | dix B for d have bee | etails. <br> n combined | ed to incre | ase subg | roup sam | ple sizes | and thus p | ovide mo | re stable | estimates | See appe | ndix B for | details |  |

TABLE 71

## METHAMPHETAMINE: Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{array}{r} 2014- \\ 2015 \\ \text { change } \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1975- \\ \underline{1998} \end{gathered}$ | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |  |
| Approximate weighted $N=$ | - | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | - | 4.7 | 4.3 | 3.9 | 3.6 | 3.2 | 3.4 | 2.5 | 2.5 | 1.7 | 1.2 | 1.2 | 1.0 | 1.4 | 1.1 | 0.9 | 1.0 | 0.6 | -0.4 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 5.0 | 4.4 | 4.3 | 4.3 | 3.6 | 3.7 | 2.7 | 2.0 | 1.8 | 1.8 | 1.3 | 1.5 | 1.6 | 1.2 | 1.3 | 1.3 | 0.7 | -0.6 |
| Female | - | 4.5 | 4.2 | 3.4 | 3.0 | 2.9 | 3.1 | 2.3 | 3.0 | 1.6 | 0.7 | 1.0 | 0.5 | 1.1 | 0.9 | 0.4 | 0.7 | 0.4 | -0.3 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 6.8 | 6.2 | 6.9 | 6.5 | 5.8 | 6.7 | 4.9 | 3.7 | 3.9 | 1.9 | 3.1 | 1.8 | 1.9 | 2.3 | 1.6 | 1.3 | 2.0 | +0.7 |
| Complete 4 years | - | 4.0 | 3.8 | 3.2 | 2.7 | 2.4 | 2.4 | 2.0 | 2.1 | 1.2 | 1.0 | 0.8 | 0.8 | 1.3 | 0.8 | 0.6 | 0.9 | 0.3 | -0.6 s |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 3.1 | 4.5 | 3.4 | 1.6 | 1.8 | 1.3 | 0.6 | 1.4 | 1.4 | 1.1 | 1.0 | 1.2 | 2.1 | 0.5 | 1.3 | 0.9 | 0.0 | -0.9 |
| Midwest | - | 5.1 | 4.1 | 4.7 | 4.5 | 4.2 | 3.3 | 4.4 | 1.2 | 1.2 | 0.8 | 1.2 | 1.1 | 1.2 | 0.9 | 0.8 | 0.7 | 1.2 | +0.5 |
| South | - | 3.9 | 3.7 | 3.4 | 3.0 | 2.8 | 4.0 | 2.2 | 3.1 | 2.1 | 1.2 | 1.4 | 0.9 | 1.1 | 0.9 | 0.5 | 1.2 | 0.4 | -0.8 s |
| West | - | 7.1 | 5.4 | 4.4 | 5.4 | 4.0 | 4.9 | 2.7 | 3.8 | 1.5 | 1.9 | 1.0 | 1.2 | 1.5 | 1.8 | 1.4 | 0.7 | 0.7 | 0.0 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 4.2 | 3.6 | 2.7 | 2.1 | 1.8 | 2.8 | 1.5 | 3.4 | 1.3 | 1.3 | 1.1 | 1.0 | 0.9 | 1.2 | 0.8 | 0.9 | 0.5 | -0.5 |
| Other MSA | - | 4.0 | 4.9 | 4.0 | 4.4 | 3.0 | 2.6 | 2.4 | 2.0 | 1.7 | 1.2 | 1.1 | 1.1 | 2.0 | 1.2 | 0.9 | 1.0 | 0.5 | -0.5 |
| Non-MSA | - | 6.4 | 4.3 | 5.3 | 4.1 | 5.3 | 5.5 | 4.1 | 2.0 | 2.2 | 1.3 | 1.4 | 1.0 | 0.6 | 0.5 | 1.2 | 0.8 | 1.0 | +0.3 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 6.0 | 7.7 | 5.0 | 3.5 | 4.3 | 5.5 | 4.0 | 2.7 | 3.1 | 1.6 | 3.5 | 2.0 | 3.1 | 1.4 | 1.4 | 1.6 | 1.1 | -0.5 |
| 2.5-3.0 | - | 4.8 | 3.5 | 4.8 | 4.9 | 3.6 | 4.1 | 3.0 | 2.4 | 2.2 | 0.6 | 1.4 | 1.1 | 1.0 | 0.6 | 1.2 | 1.1 | 0.8 | -0.3 |
| 3.5-4.0 | - | 5.2 | 3.9 | 3.8 | 3.8 | 3.6 | 3.1 | 3.0 | 2.9 | 1.4 | 1.3 | 0.8 | 0.9 | 1.2 | 1.3 | 0.6 | 0.7 | 0.5 | -0.2 |
| 4.5-5.0 | - | 3.7 | 4.2 | 3.1 | 2.9 | 2.9 | 2.8 | 2.1 | 2.2 | 1.7 | 0.8 | 1.0 | 1.0 | 1.2 | 1.2 | 0.7 | 0.9 | 0.6 | -0.3 |
| 5.5-6.0 (High) | - | 4.2 | 5.5 | 3.2 | 3.1 | 1.0 | 3.0 | 1.2 | 1.2 | 0.8 | 1.6 | 0.4 | 0.4 | 1.3 | 0.7 | 0.9 | 0.9 | 0.2 | -0.7 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 4.9 | 4.6 | 4.2 | 3.5 | 3.5 | 3.3 | 2.6 | 2.1 | 1.5 | 1.1 | 1.1 | 1.3 | 1.2 | 0.9 | 0.7 | 0.6 | 0.0 |
| African American | - | - | 1.1 | 1.0 | 0.5 | 1.4 | 1.8 | 0.7 | 0.4 | 0.7 | 1.1 | 1.1 | 0.5 | 0.4 | 0.5 | 0.4 | 1.1 | 1.0 | -0.1 |
| Hispanic | - | - | 4.9 | 4.6 | 3.9 | 3.4 | 3.4 | 3.4 | 3.7 | 2.7 | 1.1 | 1.2 | 1.1 | 1.2 | 1.2 | 1.2 | 1.5 | 1.0 | -0.5 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $\mathrm{s}=.05, \mathrm{ss}=.01$, $\mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S 3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms; $N$ is two sixths of $N$ indicated in Table S3
Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

${ }^{\text {b }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 72
CRYSTAL METHAMPHETAMINE (ICE): Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014- |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1975- \\ \underline{1989} \\ \hline \end{gathered}$ | 1990 | 1991 | 1992 | $\underline{1993}$ | 1994 | 1995 | $\underline{1996}$ | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | $\underline{2003}$ | $\underline{2004}$ | 2005 | $\underline{2006}$ | $\underline{2007}$ | 2008 | $\underline{2009}$ | $\underline{2010}$ | 2011 | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | 2015 | $\begin{gathered} 2015 \\ \text { change } \end{gathered}$ |
| Approximate weighted $N=$ | - | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | - | 1.3 | 1.4 | 1.3 | 1.7 | 1.8 | 2.4 | 2.8 | 2.3 | 3.0 | 1.9 | 2.2 | 2.5 | 3.1 | 2.0 | 2.1 | 2.3 | 1.9 | 1.6 | 1.1 | 0.9 | 0.9 | 1.2 | 0.8 | 1.1 | 0.8 | 0.5 | -0.2 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 1.5 | 1.9 | 1.5 | 1.9 | 2.2 | 2.6 | 3.9 | 2.6 | 3.9 | 2.2 | 2.5 | 2.7 | 3.5 | 2.5 | 2.6 | 2.5 | 1.5 | 1.8 | 1.4 | 1.1 | 1.1 | 1.0 | 1.0 | 1.3 | 0.8 | 0.5 | -0.3 |
| Female | - | 1.0 | 0.9 | 1.0 | 1.2 | 1.3 | 2.1 | 1.7 | 2.1 | 2.1 | 1.6 | 1.9 | 2.1 | 2.5 | 1.5 | 1.6 | 2.0 | 2.2 | 1.4 | 0.7 | 0.8 | 0.6 | 1.1 | 0.7 | 0.8 | 0.7 | 0.5 | -0.2 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 1.4 | 1.9 | 2.2 | 2.6 | 2.4 | 4.3 | 5.1 | 3.8 | 5.0 | 2.3 | 3.8 | 4.2 | 4.8 | 2.6 | 4.4 | 4.2 | 3.5 | 3.7 | 1.7 | 1.8 | 2.1 | 2.9 | 1.9 | 2.4 | 1.7 | 1.0 | -0.7 |
| Complete 4 years | - | 1.2 | 1.2 | 1.0 | 1.4 | 1.5 | 1.8 | 2.1 | 1.9 | 2.4 | 1.8 | 1.7 | 2.0 | 2.6 | 1.9 | 1.5 | 1.8 | 1.3 | 1.2 | 0.8 | 0.7 | 0.6 | 0.9 | 0.5 | 0.8 | 0.5 | 0.4 | -0.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 1.6 | 1.1 | 0.9 | 1.1 | 0.9 | 1.4 | 3.2 | 2.8 | 2.6 | 1.0 | 1.0 | 1.9 | 2.6 | 1.3 | 0.9 | 1.2 | 1.0 | 1.1 | 1.4 | 0.5 | 0.6 | 0.4 | 0.9 | 1.0 | 0.3 | 0.4 | +0.1 |
| Midwest | - | 1.1 | 1.4 | 1.1 | 1.5 | 2.3 | 2.2 | 2.1 | 1.9 | 2.7 | 1.7 | 2.8 | 2.1 | 2.0 | 1.0 | 1.8 | 2.2 | 1.0 | 1.5 | 0.5 | 1.0 | 0.9 | 0.8 | 1.0 | 0.6 | 0.9 | 1.2 | +0.3 |
| South | - | 0.5 | 1.0 | 1.0 | 1.2 | 1.2 | 1.8 | 2.0 | 1.6 | 3.1 | 2.3 | 2.0 | 1.7 | 3.5 | 2.3 | 2.3 | 2.7 | 2.9 | 1.7 | 0.9 | 0.8 | 0.9 | 1.4 | 0.6 | 1.1 | 0.8 | 0.4 | -0.4 |
| West | - | 2.5 | 2.2 | 2.6 | 3.2 | 2.8 | 4.7 | 4.9 | 3.7 | 3.4 | 2.5 | 2.9 | 4.7 | 4.0 | 3.4 | 3.5 | 3.1 | 1.9 | 2.1 | 1.7 | 1.5 | 1.2 | 1.8 | 0.9 | 1.6 | 1.1 | 0.4 | -0.8 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 1.2 | 1.3 | 1.5 | 2.2 | 2.0 | 3.0 | 4.6 | 2.9 | 2.5 | 1.6 | 2.3 | 2.7 | 2.2 | 1.9 | 2.3 | 2.1 | 2.2 | 1.3 | 0.6 | 0.9 | 0.9 | 1.1 | 1.2 | 1.3 | 1.2 | 0.8 | -0.4 |
| Other MSA | - | 1.3 | 1.7 | 1.3 | 1.7 | 1.8 | 2.0 | 2.0 | 2.0 | 3.3 | 2.1 | 1.7 | 2.3 | 3.6 | 2.0 | 1.4 | 2.3 | 1.5 | 1.7 | 1.2 | 0.8 | 0.9 | 1.3 | 0.7 | 1.2 | 0.7 | 0.3 | -0.4 |
| Non-MSA | - | 1.2 | 0.8 | 1.2 | 1.2 | 1.6 | 2.3 | 2.6 | 2.1 | 2.8 | 2.0 | 3.0 | 2.5 | 3.2 | 2.1 | 3.2 | 2.7 | 2.1 | 1.9 | 1.3 | 1.3 | 1.1 | 1.0 | 0.7 | 0.7 | 0.6 | 0.7 | +0.1 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 1.1 | 1.0 | 0.9 | 1.6 | 1.0 | 3.2 | 3.4 | 2.2 | 2.8 | 3.6 | 3.2 | 5.9 | 3.7 | 3.7 | 4.0 | 2.6 | 4.2 | 3.2 | 1.4 | 2.8 | 1.9 | 3.6 | 1.1 | 3.8 | 3.0 | 1.4 | -1.5 |
| 2.5-3.0 | - | 1.4 | 1.1 | 1.1 | 1.2 | 3.0 | 2.6 | 3.0 | 2.5 | 3.2 | 1.3 | 1.7 | 2.4 | 3.6 | 1.7 | 2.7 | 2.6 | 2.6 | 2.1 | 0.6 | 0.8 | 1.6 | 0.3 | 1.6 | 1.3 | 0.8 | 1.0 | +0.1 |
| 3.5-4.0 | - | 1.4 | 1.2 | 1.5 | 2.3 | 1.6 | 1.9 | 2.6 | 2.2 | 3.6 | 2.5 | 1.9 | 2.8 | 2.4 | 2.2 | 2.4 | 3.1 | 1.4 | 1.4 | 1.0 | 1.2 | 0.4 | 1.5 | 0.6 | 0.9 | 0.6 | 0.4 | -0.2 |
| 4.5-5.0 | - | 1.2 | 1.8 | 1.4 | 1.8 | 1.3 | 2.5 | 2.9 | 2.9 | 2.6 | 1.3 | 2.8 | 1.5 | 2.8 | 1.5 | 1.0 | 1.4 | 1.0 | 1.5 | 0.7 | 0.3 | 0.5 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.0 |
| 5.5-6.0 (High) | - | 1.1 | 1.0 | 1.4 | 1.3 | 1.0 | 2.2 | 2.5 | 1.4 | 1.9 | 2.1 | 1.3 | 2.0 | 2.8 | 1.8 | 0.9 | 1.1 | 1.4 | 0.8 | 1.2 | 0.6 | 0.7 | 1.3 | 0.2 | 0.4 | 0.2 | 0.0 | -0.2 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 1.3 | 1.3 | 1.5 | 1.7 | 2.0 | 2.5 | 2.6 | 2.9 | 2.8 | 2.3 | 2.4 | 2.6 | 2.3 | 2.0 | 2.0 | 1.9 | 1.7 | 1.3 | 0.7 | 0.5 | 0.6 | 0.7 | 0.6 | 0.6 | 0.3 | -0.3 s |
| African American | - | - | 0.8 | 1.0 | 0.8 | 0.5 | 0.5 | 0.3 | 0.5 | 1.0 | 0.7 | 0.7 | 1.1 | 1.6 | 1.4 | 0.7 | 1.0 | 1.0 | 0.6 | 0.6 | 0.7 | 0.9 | 1.1 | 0.8 | 1.0 | 1.3 | 0.6 | -0.7 |
| Hispanic | - | - | 1.3 | 1.8 | 2.3 | 2.1 | 2.7 | 4.0 | 2.8 | 1.7 | 1.7 | 2.4 | 3.4 | 3.6 | 2.5 | 2.6 | 3.4 | 3.3 | 2.9 | 1.8 | 1.4 | 1.7 | 2.4 | 2.1 | 1.4 | 2.0 | 2.0 | +0.1 |

Source. The Monitoring the Future study, the University of Michigan.
 Table S 3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms; $N$ is two sixths of $N$ indicated in Table S 3 .

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.
Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\mathrm{T}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined

TABLE 73
BATH SALTS (SYNTHETIC STIMULANTS): Trends in Annual Prevalence of Use
by Subgroups in Grades 8, 10, and 12

| Approximate weighted $\mathrm{N}=$ | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 8th Graders |  |  |  |  |  | 10th Graders |  |  |  |  |  | 12th Graders |  |  |  |  |  |
|  | $\begin{aligned} & 1991- \\ & \underline{2011} \end{aligned}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{array}{r} 2014- \\ 2015 \\ \text { change } \\ \hline \end{array}$ | $\begin{gathered} 1991- \\ \underline{2011} \end{gathered}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{array}{r} 2014- \\ 2015 \\ \text { change } \\ \hline \end{array}$ | $\begin{gathered} 1991- \\ \underline{2011} \end{gathered}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{array}{r} 2014- \\ 2015 \\ \text { change } \\ \hline \end{array}$ |
|  | - | 15,100 | 14,600 | 14,600 | 14,400 |  | - | 15,000 | 12,900 | 13,000 | 15,600 |  | - | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | - | 0.8 | 1.0 | 0.5 | 0.4 | -0.1 | - | 0.6 | 0.9 | 0.9 | 0.7 | -0.2 | - | 1.3 | 0.9 | 0.9 | 1.0 | +0.1 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 0.6 | 1.1 | 0.5 | 0.5 | 0.0 | - | 0.9 | 1.3 | 1.0 | 0.8 | -0.3 | - | 1.2 | 1.0 | 1.1 | 1.2 | +0.2 |
| Female | - | 0.9 | 0.9 | 0.5 | 0.3 | -0.2 | - | 0.4 | 0.6 | 0.7 | 0.5 | -0.2 | - | 1.1 | 0.6 | 0.5 | 0.6 | +0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 3.6 | 3.1 | 2.3 | 1.0 | -1.3 | - | 1.9 | 3.7 | 3.6 | 3.6 | 0.0 | - | 1.8 | 1.8 | 1.5 | 1.6 | +0.1 |
| Complete 4 years | - | 0.6 | 0.8 | 0.4 | 0.3 | -0.1 | - | 0.5 | 0.6 | 0.5 | 0.4 | -0.2 | - | 1.1 | 0.6 | 0.6 | 0.8 | +0.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 0.3 | 0.7 | 0.9 | 0.1 | -0.8 | - | 0.7 | 1.4 | 0.6 | 0.4 | -0.2 | - | 1.2 | 0.7 | 1.4 | 0.1 | -1.3 s |
| Midwest | - | 0.5 | 0.6 | 0.3 | 0.2 | -0.2 | - | 0.8 | 0.8 | 0.7 | 0.4 | -0.3 | - | 1.3 | 1.0 | 0.7 | 1.5 | +0.7 |
| South | - | 1.3 | 1.0 | 0.5 | 0.6 | +0.1 | - | 0.5 | 0.8 | 1.0 | 0.9 | -0.1 | - | 1.7 | 1.0 | 1.2 | 1.3 | +0.1 |
| West | - | 0.7 | 1.5 | 0.4 | 0.3 | -0.1 | - | 0.6 | 0.9 | 1.1 | 0.9 | -0.3 | - | 1.0 | 0.8 | 0.2 | 0.7 | +0.5 s |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 1.0 | 1.4 | 0.8 | 0.5 | -0.3 | - | 1.0 | 0.7 | 1.0 | 0.5 | -0.5 | - | 1.3 | 0.9 | 1.0 | 1.1 | +0.1 |
| Other MSA | - | 0.7 | 0.8 | 0.4 | 0.3 | -0.1 | - | 0.3 | 0.8 | 0.6 | 0.7 | +0.1 | - | 1.4 | 0.7 | 1.0 | 0.8 | -0.2 |
| Non-MSA | - | 0.8 | 0.8 | 0.3 | 0.3 | 0.0 | - | 0.8 | 1.7 | 1.4 | 0.9 | -0.5 | - | 1.2 | 1.3 | 0.5 | 1.4 | +0.9 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 0.9 | 2.7 | 1.0 | 0.5 | -0.5 | - | 0.7 | 0.4 | 0.9 | 1.8 | +1.0 | - | 2.1 | 1.7 | 2.0 | 1.6 | -0.4 |
| 2.5-3.0 | - | 0.6 | 0.6 | 0.4 | 0.4 | 0.0 | - | 0.9 | 2.0 | 0.6 | 1.2 | +0.6 | - | 1.7 | 0.9 | 1.5 | 0.9 | -0.6 |
| 3.5-4.0 | - | 0.8 | 0.8 | 0.2 | 0.5 | +0.3 | - | 0.4 | 0.6 | 1.5 | 0.4 | -1.1 | - | 0.8 | 1.0 | 0.3 | 0.6 | +0.3 |
| 4.5-5.0 | - | 0.6 | 1.0 | 0.7 | 0.3 | -0.4 | - | 0.7 | 0.4 | 0.4 | 0.3 | -0.1 | - | 1.2 | 0.6 | 0.5 | 1.0 | +0.5 |
| 5.5-6.0 (High) | - | 0.8 | 0.4 | 0.6 | 0.2 | -0.4 | - | 0.2 | 1.1 | 0.9 | 0.5 | -0.4 | - | 1.3 | 0.2 | 0.2 | 0.4 | +0.2 |
| Race/Ethnicity (2-year data): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 0.5 | 0.4 | 0.3 | -0.1 | - | - | 0.7 | 0.8 | 0.6 | -0.2 | - | - | 1.0 | 0.5 | 0.6 | +0.2 |
| African American | - | - | 1.3 | 1.0 | 0.7 | -0.3 | - | - | 0.8 | 1.4 | 1.7 | +0.3 | - | - | 1.6 | 2.2 | 2.3 | +0.2 |
| Hispanic | - | - | 1.7 | 1.3 | 0.5 | -0.8 s | - | - | 0.7 | 0.6 | 0.5 | 0.0 | - | - | 1.2 | 0.8 | 0.6 | -0.2 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Tables S1, S2, and S3 for the number of subgroup cases. See appendix B for definition of variables in table. For 8th and 10th graders only: Data based on one of four forms; N is one third of N indicated in S 1 and S 2 . For 12 th graders only: Data based on two of six forms; $N$ is two sixths of N indicated in Table S3.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.
${ }^{\text {an }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\text {b }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

## TABLE 74

SEDATIVES (BARBITURATES): ${ }^{\text {a,b }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{1975}$ | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | cont.) |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | 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 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 12.3 | 9.9 | 10.2 | 8.4 | 7.6 | 7.3 | 7.2 | 5.9 | 5.9 | 5.5 | 5.2 | 4.7 | 4.0 | 3.4 | 3.5 | 3.8 | 3.4 | 2.9 | 3.4 | 4.3 |  |
| Female | 9.9 | 9.2 | 8.4 | 7.7 | 7.0 | 6.0 | 5.8 | 5.0 | 4.2 | 4.0 | 3.9 | 3.8 | 3.2 | 3.0 | 3.0 | 3.0 | 3.2 | 2.6 | 3.3 | 3.8 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 11.6 | 11.4 | 9.1 | 9.3 | 9.0 | 8.1 | 7.4 | 6.7 | 6.2 | 6.2 | 6.1 | 4.7 | 4.1 | 4.8 | 4.7 | 4.3 | 3.9 | 3.8 | 5.4 |  |
| Complete 4 years | - | 7.3 | 6.8 | 6.8 | 5.2 | 4.8 | 5.1 | 3.8 | 3.8 | 3.7 | 3.6 | 3.0 | 3.0 | 2.7 | 2.5 | 2.8 | 2.9 | 2.3 | 3.2 | 3.7 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 11.5 | 10.4 | 9.2 | 9.6 | 9.6 | 6.9 | 6.8 | 5.6 | 4.7 | 5.1 | 5.3 | 5.2 | 4.2 | 2.5 | 3.2 | 2.9 | 2.8 | 2.7 | 3.5 | 4.0 |  |
| Midwest | 12.8 | 10.4 | 10.7 | 7.9 | 6.9 | 7.3 | 7.5 | 5.4 | 6.1 | 4.9 | 4.9 | 4.2 | 3.3 | 2.5 | 3.2 | 3.5 | 3.5 | 2.7 | 3.5 | 4.1 |  |
| South | 9.9 | 9.7 | 9.3 | 7.8 | 7.3 | 7.0 | 5.5 | 6.3 | 5.2 | 5.2 | 4.2 | 4.1 | 3.7 | 4.1 | 3.7 | 4.0 | 3.6 | 3.0 | 3.6 | 4.8 |  |
| West | 10.0 | 6.7 | 6.6 | 6.6 | 5.7 | 5.2 | 6.5 | 3.9 | 4.0 | 4.2 | 4.1 | 3.3 | 3.2 | 3.2 | 2.7 | 2.9 | 3.3 | 2.5 | 2.7 | 2.8 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 11.1 | 10.2 | 8.1 | 8.1 | 8.3 | 6.6 | 6.9 | 5.3 | 5.2 | 4.4 | 4.4 | 3.7 | 3.3 | 2.8 | 2.6 | 2.6 | 2.4 | 2.4 | 2.6 | 3.6 |  |
| Other MSA | 11.3 | 9.8 | 9.9 | 8.2 | 7.3 | 6.5 | 6.4 | 5.7 | 5.3 | 4.9 | 4.2 | 4.4 | 3.6 | 3.4 | 3.1 | 3.6 | 3.9 | 2.6 | 3.1 | 4.3 |  |
| Non-MSA | 9.8 | 9.0 | 9.5 | 8.1 | 7.0 | 7.2 | 6.6 | 5.5 | 5.0 | 5.5 | 5.4 | 4.5 | 3.9 | 3.2 | 4.4 | 3.9 | 3.3 | 3.4 | 4.3 | 4.1 |  |
| Parental Education: ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 10.3 | 9.1 | 8.0 | 7.5 | 7.8 | 8.0 | 6.5 | 5.8 | 6.1 | 4.7 | 5.0 | 4.8 | 3.8 | 4.3 | 4.1 | 3.1 | 3.6 | 3.9 | 3.8 | 4.5 |  |
| 2.5-3.0 | 10.3 | 10.2 | 10.3 | 8.2 | 7.3 | 7.2 | 6.5 | 5.7 | 5.7 | 5.2 | 5.3 | 4.6 | 3.6 | 3.1 | 3.4 | 3.7 | 3.7 | 2.4 | 3.6 | 4.5 |  |
| 3.5-4.0 | 9.5 | 9.6 | 9.0 | 8.3 | 7.4 | 6.3 | 6.5 | 5.1 | 4.6 | 5.0 | 4.4 | 4.4 | 3.2 | 2.9 | 3.2 | 3.9 | 3.0 | 2.8 | 2.8 | 4.0 |  |
| 4.5-5.0 | 10.7 | 10.1 | 9.1 | 7.8 | 6.6 | 5.9 | 6.4 | 5.0 | 4.4 | 4.3 | 4.1 | 3.3 | 3.9 | 3.3 | 2.8 | 3.1 | 3.3 | 2.9 | 3.4 | 4.0 |  |
| 5.5-6.0 (High) | 9.0 | 10.3 | 8.3 | 8.0 | 7.2 | 5.4 | 6.8 | 5.8 | 3.7 | 4.0 | 3.1 | 3.4 | 3.6 | 3.1 | 3.4 | 2.9 | 3.6 | 2.4 | 3.8 | 3.6 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 10.2 | 9.3 | 8.2 | 7.5 | 7.2 | 6.5 | 5.8 | 5.5 | 5.1 | 4.7 | 4.2 | 3.7 | 3.5 | 3.7 | 3.8 | 3.5 | 3.6 | 4.3 |  |
| African American | - | - | 3.3 | 3.2 | 2.6 | 2.5 | 2.4 | 2.0 | 1.7 | 1.6 | 1.6 | 1.6 | 1.7 | 1.5 | 1.1 | 1.1 | 1.2 | 1.1 | 1.0 | 1.5 |  |
| Hispanic | - | - | 7.4 | 5.8 | 5.8 | 5.8 | 5.7 | 5.1 | 4.1 | 4.4 | 4.6 | 3.6 | 2.8 | 2.8 | 3.2 | 2.8 | 2.4 | 2.2 | 1.9 | 2.6 |  |

[^12]TABLE 74 (cont.) SEDATIVES (BARBITURATES): ${ }^{\text {a,b }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

Percentage who used in last 12 months
2014-



| Total | 4.7 | 4.9 | 5.1 | 5.5 | 5.8 | 6.2 | 5.7 | 6.7 | 6.0 | 6.5 | 7.2 | 6.6 | 6.2 | 5.8 | 5.2 | 4.8 | 4.3 | 4.5 | 4.8 | 4.3 | 3.6 | -0.6 s |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 5.1 | 5.2 | 5.3 | 6.3 | 6.3 | 6.9 | 6.3 | 7.4 | 6.7 | 7.0 | 7.7 | 6.4 | 6.3 | 5.9 | 5.6 | 4.8 | 4.2 | 4.2 | 4.7 | 4.4 | 3.1 | -1.3 ss |
| Female | 4.2 | 4.4 | 4.8 | 4.8 | 5.3 | 5.4 | 5.1 | 5.9 | 5.4 | 6.0 | 6.6 | 6.7 | 6.2 | 5.7 | 4.9 | 4.6 | 4.4 | 4.7 | 4.9 | 4.2 | 4.1 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 5.9 | 6.7 | 6.6 | 6.9 | 7.0 | 7.0 | 7.1 | 9.8 | 9.6 | 9.3 | 10.7 | 10.0 | 8.2 | 8.9 | 7.6 | 6.7 | 7.5 | 5.1 | 6.1 | 5.9 | 4.1 | -1.9 ss |
| Complete 4 years | 4.4 | 4.3 | 4.6 | 5.1 | 5.5 | 6.0 | 5.4 | 6.0 | 5.1 | 5.6 | 6.3 | 5.7 | 5.7 | 5.2 | 4.7 | 4.3 | 3.7 | 4.3 | 4.4 | 3.9 | 3.5 | -0.4 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 4.1 | 5.6 | 5.7 | 5.5 | 4.7 | 5.6 | 5.3 | 5.9 | 4.8 | 5.4 | 5.7 | 5.7 | 5.5 | 5.1 | 4.3 | 4.2 | 3.4 | 4.1 | 3.9 | 3.0 | 3.3 | +0.3 |
| Midwest | 4.5 | 4.9 | 4.4 | 4.8 | 6.0 | 5.2 | 5.6 | 6.4 | 5.1 | 5.9 | 7.5 | 6.2 | 5.9 | 5.7 | 6.5 | 5.3 | 4.7 | 4.4 | 4.7 | 4.1 | 2.9 | $-1.3 \mathrm{~s}$ |
| South | 5.3 | 5.4 | 5.8 | 6.8 | 6.8 | 7.5 | 6.1 | 8.4 | 7.1 | 7.8 | 8.5 | 7.5 | 7.2 | 6.8 | 5.6 | 5.3 | 4.2 | 4.4 | 5.5 | 5.1 | 3.8 | -1.2 s |
| West | 4.3 | 3.3 | 4.2 | 4.2 | 4.9 | 5.7 | 5.6 | 5.1 | 6.5 | 6.3 | 5.9 | 6.2 | 5.4 | 5.0 | 4.0 | 4.2 | 4.7 | 5.0 | 4.5 | 4.1 | 4.3 | +0.1 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 4.1 | 3.6 | 4.2 | 4.6 | 3.7 | 5.1 | 5.9 | 6.5 | 4.2 | 5.5 | 6.1 | 6.6 | 5.7 | 4.3 | 4.5 | 4.1 | 3.4 | 4.3 | 4.7 | 3.6 | 3.3 | -0.3 |
| Other MSA | 4.9 | 5.4 | 5.0 | 5.6 | 6.2 | 6.6 | 6.1 | 6.7 | 6.6 | 7.1 | 7.5 | 6.6 | 6.3 | 6.2 | 5.4 | 5.0 | 4.6 | 4.8 | 5.2 | 5.0 | 4.0 | -1.0 s |
| Non-MSA | 5.0 | 5.4 | 6.4 | 6.8 | 7.4 | 6.8 | 4.9 | 7.0 | 7.4 | 6.6 | 7.8 | 6.6 | 6.9 | 6.7 | 5.9 | 5.5 | 4.9 | 4.0 | 3.9 | 3.5 | 3.3 | -0.2 |
| Parental Education: ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 4.9 | 4.8 | 4.3 | 6.4 | 7.5 | 5.2 | 6.3 | 5.1 | 6.7 | 6.6 | 6.2 | 7.3 | 6.3 | 6.0 | 4.8 | 4.3 | 4.8 | 5.1 | 4.9 | 4.3 | 3.3 | -1.0 |
| 2.5-3.0 | 5.2 | 4.9 | 4.9 | 6.3 | 6.2 | 7.1 | 5.3 | 7.1 | 6.5 | 7.0 | 8.1 | 6.5 | 5.7 | 6.3 | 5.7 | 5.5 | 4.6 | 5.0 | 5.0 | 4.8 | 3.2 | $-1.5 \mathrm{~s}$ |
| 3.5-4.0 | 4.6 | 4.9 | 6.0 | 5.6 | 6.4 | 5.8 | 6.1 | 7.7 | 7.2 | 8.0 | 7.7 | 7.3 | 6.5 | 6.2 | 5.5 | 5.2 | 4.6 | 4.8 | 5.1 | 4.0 | 4.6 | +0.6 |
| 4.5-5.0 | 4.4 | 5.0 | 5.1 | 5.0 | 5.0 | 6.7 | 5.9 | 6.3 | 4.7 | 5.1 | 7.0 | 6.2 | 7.0 | 5.0 | 5.6 | 4.5 | 4.2 | 4.3 | 4.6 | 4.6 | 3.1 | $-1.5 \mathrm{~s}$ |
| 5.5-6.0 (High) | 4.1 | 4.6 | 4.6 | 5.0 | 5.1 | 5.5 | 5.8 | 6.6 | 4.3 | 5.5 | 6.3 | 6.0 | 5.3 | 5.4 | 3.5 | 3.6 | 3.0 | 3.7 | 4.6 | 3.7 | 4.1 | +0.3 |
| Race/Ethnicity (2-year average): ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 4.9 | 5.4 | 5.9 | 6.5 | 6.7 | 6.9 | 7.0 | 7.5 | 7.6 | 7.4 | 7.9 | 7.9 | 7.5 | 7.3 | 6.6 | 5.8 | 5.2 | 4.9 | 5.1 | 5.0 | 4.5 | -0.5 |
| African American | 1.6 | 1.1 | 1.0 | 1.4 | 1.4 | 1.3 | 1.5 | 1.4 | 1.7 | 2.4 | 2.6 | 2.5 | 2.5 | 2.2 | 2.0 | 2.7 | 2.5 | 2.1 | 2.5 | 3.1 | 2.6 | -0.6 |
| Hispanic | 3.5 | 4.0 | 3.7 | 3.3 | 4.0 | 5.1 | 4.7 | 4.5 | 4.1 | 4.7 | 5.8 | 5.8 | 5.2 | 4.3 | 4.0 | 3.8 | 3.5 | 3.7 | 3.8 | 3.8 | 3.3 | -0.5 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $s=.05, \mathrm{ss}=.01$, $\mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S 3 for the number of subgroup cases. See appendix B for definition of variables in table.
a'Only drug use not under a doctor's orders is included here
In 2004 the barbiturate question text was changed on half of the questionnaire forms. Barbiturates was changed to Sedatives, including barbiturates, and "have you taken barbiturates . . ." was changed to "have you taken sedatives . . ." In the list
of examples downs, downers, goofballs, yellow, reds, blues, rainbows were changed to downs, or downers, and include Phenobarbital, Tuinal, Nembutal, and Seconal. An examination of the data did not show any effect from the wording change. In 2005 the remaining forms were changed in a like manner.
${ }^{\text {c }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\mathrm{d}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.
${ }^{e}$ In 2013 the question text was changed in all forms: Tuinal, Nembutal, and Seconal were replaced with Ambien, Lunesta, and Sonata. In one form the list of examples was also changed: Tuinal was dropped from the list and Dalmane, Restoril, Halcion, Intermezzo, and Zolpimist were added. An examination of the data did not show any effect from the wording changes.

TABLE 75
TRANQUILIZERS：${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 8

Percentage who used in last 12 months
2014－
$\underline{19} 1 \underline{1991} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001^{\text {b }}} \quad \underline{\underline{2002}} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015} \quad \underline{c h a n g e}$


| Total | 1.8 | 2.0 | 2.1 | 2.4 | 2.7 | 3.3 | 2.9 | 2.6 | 2.5 | $2.6 \ddagger$ | 2.8 | 2.6 | 2.7 | 2.5 | 2.8 | 2.6 | 2.4 | 2.4 | 2.6 | 2.8 | 2.0 | 1.8 | 1.8 | 1.7 | 1.7 | 0.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1.5 | 1.6 | 1.8 | 1.9 | 2.0 | 2.3 | 2.6 | 2.3 | 2.1 | 2．1才 | 2.5 | 2.2 | 2.2 | 1.9 | 2.1 | 2.2 | 1.6 | 1.7 | 2.3 | 2.2 | 1.6 | 1.3 | 1.3 | 1.3 | 1.2 | －0．1 |
| Female | 2.1 | 2.3 | 2.4 | 2.8 | 3.3 | 4.0 | 3.2 | 3.0 | 2.9 | 3．1才 | 2.9 | 2.8 | 3.0 | 3.2 | 3.4 | 2.9 | 3.1 | 3.2 | 3.0 | 3.3 | 2.4 | 2.3 | 2.4 | 2.1 | 2.2 | ＋0．1 |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 3.9 | 4.9 | 3.6 | 5.1 | 5.9 | 6.4 | 5.8 | 6.4 | 5.8 | 6．8才 | 5.8 | 6.5 | 6.3 | 6.2 | 6.9 | 6.0 | 6.8 | 5.9 | 7.0 | 5.5 | 4.8 | 4.1 | 5.3 | 4.8 | 3.1 | －1．7 |
| Complete 4 years | 1.5 | 1.5 | 1.9 | 2.0 | 2.3 | 2.8 | 2.6 | 2.2 | 2.0 | $2.2 \ddagger$ | 2.5 | 2.1 | 2.3 | 2.1 | 2.4 | 2.3 | 2.0 | 2.2 | 2.3 | 2.6 | 1.8 | 1.6 | 1.6 | 1.5 | 1.6 | ＋0．1 |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 1.0 | 1.6 | 1.7 | 2.5 | 2.3 | 2.7 | 2.5 | 2.0 | 2.3 | $2.2 \pm$ | 2.0 | 1.8 | 1.9 | 1.7 | 1.6 | 1.3 | 1.4 | 1.6 | 1.2 | 1.6 | 1.1 | 1.3 | 1.2 | 1.5 | 1.6 | ＋0．1 |
| Midwest | 1.4 | 1.9 | 1.3 | 1.7 | 2.6 | 3.5 | 2.4 | 2.6 | 2.6 | $2.2 \ddagger$ | 2.2 | 2.4 | 2.2 | 2.1 | 2.8 | 2.4 | 2.8 | 2.5 | 2.4 | 2.6 | 1.8 | 1.0 | 1.5 | 1.5 | 1.8 | ＋0．3 |
| South | 2.6 | 2.5 | 2.4 | 2.6 | 3.0 | 3.7 | 3.3 | 3.2 | 2.8 | 3．2才 | 3.4 | 3.4 | 3.5 | 3.4 | 3.7 | 3.6 | 2.9 | 3.3 | 3.6 | 3.6 | 2.5 | 2.7 | 2.3 | 2.0 | 1.9 | －0．1 |
| West | 1.8 | 1.6 | 3.0 | 2.7 | 2.4 | 2.9 | 3.0 | 2.3 | 1.9 | $2.5 \ddagger$ | 3.2 | 1.9 | 2.6 | 2.2 | 2.2 | 2.1 | 1.9 | 1.8 | 2.2 | 2.4 | 2.2 | 1.3 | 1.9 | 1.8 | 1.4 | －0．3 |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 1.8 | 2.1 | 1.7 | 2.5 | 1.8 | 3.2 | 2.1 | 1.9 | 1.8 | $2.5 \ddagger$ | 2.8 | 2.0 | 1.8 | 1.8 | 2.0 | 1.9 | 1.9 | 1.8 | 2.0 | 2.2 | 1.7 | 1.5 | 1.6 | 1.8 | 2.2 | ＋0．5 |
| Other MSA | 1.7 | 1.8 | 2.5 | 2.6 | 3.2 | 3.4 | 3.2 | 2.6 | 2.4 | $2.7 \ddagger$ | 3.1 | 2.7 | 2.9 | 3.1 | 3.1 | 2.6 | 2.8 | 2.8 | 3.0 | 3.1 | 2.4 | 2.2 | 1.9 | 1.8 | 1.7 | －0．1 |
| Non－MSA | 2.2 | 2.2 | 1.6 | 1.9 | 2.6 | 3.1 | 3.2 | 3.6 | 3.4 | 2．7 $\ddagger$ | 2.3 | 2.9 | 3.4 | 2.4 | 3.4 | 3.5 | 2.4 | 2.6 | 2.5 | 2.8 | 1.6 | 1.5 | 1.9 | 1.6 | 1.0 | －0．6 |
| Parental Education：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 3.6 | 3.8 | 2.5 | 3.2 | 3.9 | 4.9 | 4.3 | 5.5 | 5.0 | $5.6 \ddagger$ | 3.7 | 5.0 | 3.9 | 4.7 | 5.0 | 5.1 | 5.2 | 4.7 | 5.9 | 4.8 | 3.4 | 3.2 | 3.6 | 3.0 | 3.1 | ＋0．1 |
| 2．5－3．0 | 1.6 | 2.1 | 2.5 | 2.6 | 2.7 | 3.5 | 3.1 | 2.8 | 3.3 | $3.6 \ddagger$ | 3.7 | 3.6 | 3.5 | 2.8 | 4.3 | 3.2 | 3.3 | 3.0 | 3.4 | 3.4 | 2.8 | 2.4 | 2.4 | 2.3 | 1.7 | －0．5 |
| 3．5－4．0 | 2.0 | 2.2 | 2.1 | 2.6 | 3.2 | 3.9 | 3.2 | 2.7 | 2.1 | $2.6 \ddagger$ | 2.7 | 2.2 | 2.8 | 3.0 | 3.3 | 3.1 | 2.9 | 2.5 | 2.8 | 3.2 | 2.5 | 1.9 | 2.2 | 1.9 | 1.8 | －0．1 |
| 4．5－5．0 | 1.4 | 0.9 | 1.8 | 2.0 | 2.2 | 2.8 | 2.4 | 2.4 | 1.7 | $1.4 \pm$ | 2.7 | 2.0 | 2.1 | 2.0 | 1.3 | 1.7 | 1.3 | 2.1 | 1.7 | 2.0 | 1.3 | 1.1 | 1.5 | 1.5 | 1.5 | 0.0 |
| 5．5－6．0（High） | 1.8 | 1.9 | 1.7 | 2.1 | 1.6 | 2.7 | 2.7 | 2.1 | 1.9 | $2.2 \ddagger$ | 2.1 | 1.6 | 1.6 | 1.7 | 2.0 | 1.8 | 1.0 | 1.7 | 1.4 | 1.7 | 1.3 | 1.5 | 0.9 | 1.1 | 1.3 | ＋0．2 |
| Race／Ethnicity（2－year average）：d |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | － | 2.0 | 2.0 | 2.2 | 2.7 | 3.2 | 3.4 | 3.1 | 2.9 | 3.0 | $3.0 \ddagger$ | $3.0{ }^{\text {e }}$ | 2.8 | 2.8 | 2.9 | 3.0 | 2.7 | 2.6 | 2.8 | 2.9 | 2.6 | 2.0 | 1.7 | 1.7 | 1.7 | 0.0 |
| African American | － | 0.9 | 1.1 | 1.2 | 1.2 | 1.3 | 1.2 | 0.9 | 0.7 | 0.5 | 0．5 $\ddagger$ | $0.6{ }^{\text {e }}$ | 1.0 | 1.2 | 1.0 | 0.8 | 0.9 | 0.9 | 1.0 | 1.2 | 1.3 | 1.2 | 1.1 | 1.1 | 1.2 | ＋0．1 |
| Hispanic | － | 2.7 | 3.1 | 3.4 | 3.3 | 3.5 | 3.5 | 3.4 | 3.5 | 3.5 | $3.6 \ddagger$ | $3.8{ }^{\text {e }}$ | 3.4 | 3.4 | 3.5 | 3.0 | 2.9 | 2.9 | 2.9 | 3.3 | 2.9 | 2.4 | 2.4 | 2.2 | 2.0 | －0．2 |

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

Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding．See Table S 1 for the number of subgroup cases．See appendix B for definition of variables in table．
＂Only drug use not under a doctor＇s orders is included here

drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner．

To derive percentages for each racial subgroup，data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates．See appendix B for details on how race／ethnicity is defined．
${ }^{e}$ Due to changes in the question wording in half of the questionnaire forms in 2001，the 2002 entry comprises half of the 2001 sample data double－weighted（the half with the new version of the question）and all of the 2002 sample data．

TABLE 76
TRANQUILIZERS：${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 10

Percentage who used in last 12 months
2014－



| Total | 3.2 | 3.5 | 3.3 | 3.3 | 4.0 | 4.6 | 4.9 | 5.1 | 5.4 | $5.6 \ddagger$ | 7.3 | 6.3 | 5.3 | 5.1 | 4.8 | 5.2 | 5.3 | 4.6 | 5.0 | 5.1 | 4.5 | 4.3 | 3.7 | 3.9 | 3.9 | 0.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 2.5 | 2.7 | 3.2 | 3.0 | 4.0 | 4.3 | 4.7 | 4.7 | 5.2 | $5.8 \ddagger$ | 7.9 | 5.7 | 4.7 | 4.7 | 4.3 | 5.0 | 4.6 | 4.1 | 4.4 | 4.5 | 4.7 | 4.0 | 3.8 | 3.2 | 3.2 | 0.0 |
| Female | 3.8 | 4.3 | 3.2 | 3.6 | 4.0 | 4.9 | 5.2 | 5.4 | 5.4 | $5.5 \ddagger$ | 6.8 | 6.9 | 5.8 | 5.5 | 5.3 | 5.3 | 6.0 | 5.0 | 5.7 | 5.5 | 4.3 | 4.5 | 3.6 | 4.6 | 4.5 | －0．1 |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 5.0 | 6.0 | 5.8 | 6.0 | 7.4 | 9.4 | 8.6 | 8.3 | 8.6 | $10.0 \ddagger$ | 13.5 | 11.6 | 9.2 | 9.6 | 9.6 | 10.2 | 9.9 | 9.6 | 11.4 | 10.6 | 9.9 | 10.7 | 6.4 | 7.9 | 8.5 | ＋0．6 |
| Complete 4 years | 2.8 | 3.1 | 2.7 | 2.8 | 3.4 | 3.8 | 4.3 | 4.5 | 4.8 | $4.9 \ddagger$ | 6.4 | 5.5 | 4.7 | 4.5 | 4.2 | 4.5 | 4.7 | 3.9 | 4.4 | 4.4 | 3.9 | 3.6 | 3.4 | 3.5 | 3.4 | －0．1 |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 2.7 | 2.8 | 3.4 | 2.8 | 2.6 | 3.9 | 3.6 | 5.7 | 5.5 | $3.9 \ddagger$ | 6.2 | 4.6 | 4.3 | 5.0 | 5.0 | 3.8 | 4.1 | 2.8 | 3.0 | 4.0 | 3.5 | 3.0 | 2.9 | 3.0 | 3.4 | ＋0．4 |
| Midwest | 2.4 | 3.0 | 2.5 | 2.6 | 3.2 | 4.4 | 3.7 | 3.4 | 4.6 | $5.4 \ddagger$ | 5.6 | 5.5 | 4.5 | 3.5 | 3.3 | 4.2 | 5.3 | 4.7 | 5.1 | 5.1 | 4.4 | 4.3 | 3.9 | 4.7 | 2.9 | －1．8 ss |
| South | 4.2 | 4.5 | 3.9 | 4.2 | 5.1 | 5.7 | 7.3 | 6.6 | 6.0 | $6.9 \ddagger$ | 9.6 | 8.1 | 7.5 | 7.3 | 6.6 | 6.9 | 6.5 | 6.2 | 6.2 | 6.1 | 5.4 | 5.3 | 4.3 | 4.3 | 4.8 | ＋0．4 |
| West | 2.9 | 3.2 | 3.2 | 3.6 | 4.3 | 3.6 | 3.7 | 4.1 | 4.9 | $5.4 \ddagger$ | 6.7 | 5.8 | 4.1 | 4.1 | 3.8 | 5.3 | 4.7 | 3.7 | 5.2 | 4.3 | 4.2 | 3.9 | 3.3 | 3.2 | 3.8 | ＋0．6 |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 3.2 | 3.3 | 2.7 | 2.6 | 3.2 | 4.2 | 3.9 | 4.1 | 5.0 | $5.5 \ddagger$ | 5.8 | 5.1 | 3.9 | 3.2 | 3.5 | 4.4 | 4.1 | 3.3 | 3.9 | 4.6 | 4.0 | 3.7 | 3.0 | 3.6 | 3.8 | ＋0．2 |
| Other MSA | 3.0 | 3.8 | 3.3 | 3.9 | 4.1 | 4.6 | 4.4 | 5.2 | 5.5 | $5.4 \ddagger$ | 7.0 | 6.8 | 5.8 | 5.7 | 5.4 | 5.3 | 5.8 | 5.2 | 5.8 | 5.2 | 4.7 | 4.2 | 4.1 | 3.9 | 3.9 | 0.0 |
| Non－MSA | 3.5 | 3.3 | 3.6 | 3.0 | 4.7 | 5.2 | 7.0 | 6.0 | 5.6 | 6．1才 | 9.9 | 6.7 | 6.4 | 6.4 | 5.3 | 6.3 | 6.0 | 5.1 | 5.1 | 5.5 | 5.1 | 5.2 | 3.7 | 4.5 | 3.8 | $-0.7$ |
| Parental Education：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 3.3 | 5.3 | 4.8 | 4.2 | 5.0 | 5.9 | 4.7 | 6.5 | 5.0 | 8．2才 | 7.6 | 7.1 | 7.5 | 5.8 | 5.2 | 6.6 | 5.5 | 5.4 | 7.4 | 6.5 | 4.8 | 5.5 | 5.4 | 5.4 | 4.8 | －0．6 |
| 2．5－3．0 | 3.6 | 3.5 | 3.1 | 3.3 | 4.5 | 5.2 | 5.3 | 6.3 | 5.9 | 6．2才 | 7.9 | 7.5 | 7.3 | 5.6 | 5.7 | 6.2 | 6.4 | 5.9 | 5.9 | 6.7 | 5.0 | 5.4 | 4.6 | 4.0 | 4.8 | ＋0．8 |
| 3．5－4．0 | 3.2 | 3.4 | 3.5 | 3.4 | 4.3 | 5.0 | 5.5 | 4.9 | 5.2 | $5.6 \ddagger$ | 8.1 | 6.7 | 5.7 | 5.7 | 5.4 | 5.6 | 5.7 | 5.2 | 5.9 | 5.8 | 4.8 | 5.0 | 4.4 | 4.9 | 5.0 | ＋0．1 |
| 4．5－5．0 | 2.5 | 3.9 | 2.9 | 2.9 | 3.5 | 4.1 | 4.2 | 4.5 | 5.7 | $5.2 \ddagger$ | 6.7 | 5.8 | 4.1 | 4.6 | 4.0 | 4.3 | 4.9 | 3.5 | 4.1 | 4.0 | 4.4 | 3.6 | 2.4 | 3.3 | 3.4 | ＋0．1 |
| 5．5－6．0（High） | 3.5 | 2.3 | 3.1 | 3.4 | 3.2 | 3.6 | 4.4 | 4.0 | 5.3 | 4．7才 | 6.9 | 4.6 | 3.4 | 4.1 | 4.0 | 4.3 | 3.9 | 3.6 | 3.6 | 3.3 | 4.1 | 3.2 | 3.2 | 2.8 | 2.5 | －0．3 |
| Race／Ethnicity（2－year average）：${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | － | 4.0 | 3.8 | 3.6 | 4.1 | 4.9 | 5.6 | 6.0 | 6.1 | 6.4 | $7.0 \ddagger$ | $7.6^{\text {e }}$ | 7.4 | 6.5 | 6.0 | 6.0 | 6.2 | 6.1 | 5.7 | 5.8 | 5.6 | 5.1 | 4.4 | 4.0 | 4.1 | ＋0．1 |
| African American | － | 0.9 | 0.9 | 0.9 | 0.8 | 0.7 | 0.9 | 1.0 | 1.2 | 1.1 | $1.5 \ddagger$ | $1.5{ }^{\text {e }}$ | 1.3 | 1.3 | 1.3 | 1.6 | 1.3 | 1.0 | 1.3 | 1.8 | 2.1 | 1.8 | 1.7 | 2.1 | 2.5 | ＋0．4 |
| Hispanic | － | 2.9 | 3.3 | 3.1 | 3.1 | 3.4 | 3.5 | 3.5 | 3.7 | 4.0 | $4.0 \ddagger$ | $4.3{ }^{\text {e }}$ | 4.4 | 4.5 | 4.3 | 3.8 | 3.3 | 3.5 | 4.5 | 4.9 | 4.1 | 4.0 | 4.2 | 3.8 | 3.8 | 0.0 |


| Hispanic | - | 2.9 | 3.3 |
| :--- | :--- | :--- | :--- |
| Source．The Monitoring the Future study，the University of Michigan． |  |  |  |


Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding．See Table S2 for the number of subgroup cases．See appendix B for definition of variables in table．
anly drug use not under a doctor＇s orders is included here．
 drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner．
＇Parental education is an average score of mother＇s education and father＇s education．See appendix B for details．
${ }^{\mathrm{d}}$ To derive percentages for each racial subgroup，data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates．See appendix $B$ for details on how race／ethnicity is defined．
${ }^{e}$ Due to changes in the question wording in half of the questionnaire forms in 2001 ，the 2002 entry comprises half of the 2001 sample data double－weighted（the half with the new version of the question）and all of the 2002 sample data．

TABLE 77
TRANQUILIZERS: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | cont.) |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | 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 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 10.0 | 9.4 | 10.2 | 9.7 | 9.9 | 9.0 | 8.0 | 6.9 | 7.0 | 6.3 | 6.4 | 5.9 | 5.2 | 4.7 | 4.0 | 3.5 | 3.5 | 2.7 | 3.5 | 4.0 |  |
| Female | 11.1 | 11.0 | 11.4 | 10.1 | 9.3 | 8.5 | 7.7 | 7.1 | 6.7 | 5.8 | 5.7 | 5.8 | 5.8 | 4.8 | 3.5 | 3.5 | 3.6 | 3.0 | 3.3 | 3.5 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 11.5 | 12.3 | 11.1 | 11.0 | 10.7 | 9.4 | 8.0 | 8.0 | 7.4 | 6.8 | 7.2 | 6.7 | 5.1 | 4.8 | 4.3 | 4.2 | 3.9 | 3.9 | 4.5 |  |
| Complete 4 years | - | 8.9 | 9.0 | 8.6 | 8.1 | 7.2 | 6.9 | 6.3 | 5.8 | 5.2 | 5.5 | 5.1 | 4.9 | 4.6 | 3.3 | 3.2 | 3.4 | 2.5 | 3.3 | 3.5 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 9.2 | 9.7 | 10.4 | 10.9 | 11.5 | 8.6 | 8.3 | 7.8 | 6.8 | 6.8 | 7.1 | 6.4 | 6.9 | 4.5 | 3.7 | 2.9 | 3.0 | 3.0 | 3.7 | 3.5 |  |
| Midwest | 10.6 | 10.1 | 11.0 | 8.8 | 7.5 | 8.2 | 7.8 | 6.2 | 6.8 | 5.6 | 6.0 | 5.5 | 4.5 | 3.7 | 3.1 | 2.9 | 3.0 | 2.3 | 2.8 | 3.1 |  |
| South | 11.3 | 11.7 | 11.4 | 10.5 | 10.4 | 9.5 | 7.8 | 7.4 | 7.4 | 6.9 | 5.9 | 6.3 | 5.7 | 6.0 | 4.4 | 4.3 | 4.0 | 3.5 | 4.2 | 4.8 |  |
| West | 11.7 | 8.5 | 9.6 | 8.9 | 9.4 | 8.6 | 8.0 | 6.4 | 6.2 | 4.9 | 5.3 | 4.8 | 5.2 | 4.4 | 3.4 | 3.9 | 4.4 | 2.3 | 3.0 | 2.8 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 11.2 | 9.6 | 9.6 | 10.3 | 9.9 | 8.7 | 8.3 | 7.0 | 7.0 | 5.4 | 5.8 | 5.3 | 5.8 | 4.7 | 3.1 | 3.6 | 2.5 | 2.9 | 2.9 | 3.9 |  |
| Other MSA | 11.0 | 11.3 | 11.4 | 10.1 | 10.2 | 9.3 | 8.1 | 7.2 | 7.2 | 6.1 | 6.0 | 5.7 | 5.6 | 5.0 | 3.5 | 3.7 | 4.1 | 2.7 | 3.6 | 3.7 |  |
| Non-MSA | 9.9 | 9.5 | 11.0 | 9.2 | 8.7 | 8.0 | 7.5 | 6.8 | 6.5 | 6.8 | 6.5 | 6.4 | 5.2 | 4.5 | 4.9 | 3.3 | 3.7 | 3.1 | 3.7 | 3.5 |  |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 11.2 | 10.1 | 9.4 | 9.4 | 9.1 | 7.8 | 7.1 | 6.1 | 6.0 | 6.5 | 5.3 | 6.7 | 5.7 | 3.9 | 3.6 | 4.0 | 3.9 | 3.3 | 4.2 |  |
| 2.5-3.0 | - | 9.8 | 10.3 | 11.5 | 10.1 | 8.8 | 9.1 | 8.0 | 7.3 | 7.2 | 6.5 | 6.2 | 5.8 | 5.4 | 4.6 | 3.9 | 3.6 | 2.8 | 3.3 | 3.5 |  |
| 3.5-4.0 | - | 9.8 | 11.2 | 11.1 | 9.5 | 10.4 | 8.9 | 8.3 | 6.7 | 6.9 | 5.8 | 6.4 | 6.5 | 5.3 | 4.5 | 3.4 | 3.1 | 2.7 | 3.5 | 3.6 |  |
| 4.5-5.0 | - | 11.3 | 11.7 | 11.4 | 10.5 | 10.0 | 8.1 | 7.4 | 7.6 | 6.6 | 5.8 | 6.3 | 4.7 | 5.9 | 5.5 | 3.8 | 3.9 | 3.0 | 3.4 | 3.7 |  |
| 5.5-6.0 (High) | - | 9.3 | 12.0 | 10.1 | 11.0 | 11.4 | 10.3 | 9.1 | 7.6 | 7.1 | 6.3 | 5.5 | 5.4 | 5.4 | 5.6 | 4.9 | 4.0 | 2.2 | 4.2 | 4.2 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 11.4 | 11.1 | 10.5 | 9.9 | 9.1 | 8.3 | 7.8 | 7.3 | 6.8 | 6.6 | 6.3 | 5.9 | 5.0 | 4.2 | 4.1 | 3.7 | 3.7 | 4.2 |  |
| African American | - | - | 4.3 | 4.2 | 3.6 | 3.1 | 3.0 | 2.5 | 2.3 | 2.1 | 1.7 | 1.7 | 2.0 | 2.0 | 1.2 | 0.7 | 0.9 | 1.3 | 1.0 | 1.1 |  |
| Hispanic | - | - | 8.4 | 8.2 | 7.4 | 6.4 | 5.7 | 5.8 | 5.1 | 5.3 | 5.0 | 4.4 | 3.7 | 2.5 | 1.6 | 1.9 | 2.7 | 2.4 | 2.0 | 2.4 |  |

[^13]
## TABLE 77 （cont．）

TRANQUILIZERS：${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 014－ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}{ }^{\text {d }}$ | 2002 | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}{ }^{\text {e }}$ | 2008 | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2015 \\ \text { change } \end{gathered}$ |
| Approximate weighted $N=$ | 15，400 | 14，300 | 15，400 | 15，200 | 13，600 | 12，800 | 12，800 | 12，900 | 14，600 | 14，600 | 14，700 | 14，200 | 14，500 | 14，000 | 13，700 | 14，400 | 14，100 | 13，700 | 12，600 | 12，400 | 12，900 |  |
| Total | 4.4 | 4.6 | 4.7 | 5.5 | 5.8 | 5．7才 | 6.9 | 7.7 | 6.7 | 7.3 | 6.8 | 6.6 | 6.2 | 6.2 | 6.3 | 5.6 | 5.6 | 5.3 | 4.6 | 4.7 | 4.7 | 0.0 |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 4.7 | 5.0 | 5.4 | 6.3 | 6.9 | $6.4 \ddagger$ | 7.9 | 8.4 | 6.9 | 8.0 | 7.2 | 7.1 | 6.9 | 6.8 | 6.8 | 5.9 | 5.4 | 5.1 | 4.6 | 4.9 | 4.6 | －0．3 |
| Female | 4.1 | 4.0 | 3.9 | 4.7 | 4.8 | $4.9 \ddagger$ | 5.8 | 6.9 | 6.3 | 6.5 | 6.2 | 6.1 | 5.4 | 5.7 | 5.7 | 5.2 | 5.6 | 5.5 | 4.4 | 4.4 | 4.6 | ＋0．2 |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 5.6 | 5.6 | 6.2 | 6.8 | 6.4 | $6.7 \ddagger$ | 7.6 | 9.9 | 9.6 | 9.1 | 10.3 | 8.5 | 9.1 | 9.3 | 8.7 | 8.6 | 9.1 | 6.7 | 6.0 | 5.5 | 5.5 | 0.0 |
| Complete 4 years | 4.1 | 4.2 | 4.0 | 5.1 | 5.6 | 5．2ł | 6.7 | 7.1 | 6.0 | 6.8 | 5.9 | 6.0 | 5.5 | 5.5 | 5.7 | 4.9 | 4.9 | 4.9 | 4.2 | 4.4 | 4.5 | ＋0．1 |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 3.9 | 4.8 | 5.3 | 4.9 | 5.6 | $5.2 \ddagger$ | 5.7 | 6.8 | 5.4 | 6.5 | 5.7 | 7.2 | 5.9 | 5.3 | 6.7 | 5.2 | 4.8 | 4.6 | 4.2 | 3.3 | 4.1 | ＋0．8 |
| Midwest | 4.0 | 4.4 | 3.5 | 3.7 | 5.1 | 4．7才 | 8.1 | 6.5 | 5.5 | 6.2 | 7.0 | 5.8 | 6.4 | 5.2 | 7.0 | 5.7 | 6.1 | 5.3 | 4.7 | 4.4 | 4.5 | ＋0．1 |
| South | 5.0 | 5.3 | 5.4 | 7.5 | 7.6 | $6.7 \ddagger$ | 7.4 | 10.4 | 8.5 | 9.0 | 8.3 | 7.6 | 7.0 | 7.8 | 6.9 | 6.4 | 5.5 | 5.3 | 5.0 | 5.0 | 4.6 | －0．4 |
| West | 4.3 | 3.0 | 4.3 | 4.4 | 3.9 | $5.6 \ddagger$ | 5.5 | 5.8 | 6.6 | 7.0 | 4.9 | 5.3 | 4.7 | 5.5 | 4.1 | 4.3 | 5.7 | 6.0 | 4.4 | 5.8 | 5.6 | －0．2 |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 4.0 | 3.7 | 4.2 | 4.8 | 4.0 | 4．7才 | 7.9 | 7.8 | 4.7 | 5.5 | 5.5 | 6.5 | 5.9 | 5.2 | 5.5 | 4.9 | 4.7 | 5.3 | 4.5 | 3.7 | 4.5 | ＋0．8 |
| Other MSA | 4.5 | 4.9 | 4.8 | 5.7 | 6.6 | $6.2 \ddagger$ | 6.4 | 8.2 | 7.8 | 8.5 | 7.4 | 6.6 | 6.4 | 6.6 | 6.7 | 5.8 | 5.8 | 5.6 | 5.2 | 5.6 | 5.3 | －0．3 |
| Non－MSA | 4.8 | 4.7 | 5.1 | 5.9 | 6.5 | $6.0 \ddagger$ | 6.7 | 6.8 | 7.4 | 7.3 | 7.1 | 6.9 | 6.2 | 6.5 | 6.3 | 6.0 | 6.5 | 4.9 | 3.6 | 4.0 | 3.6 | －0．3 |
| Parental Education：${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 3.9 | 4.2 | 3.9 | 6.4 | 5.2 | $6.4 \ddagger$ | 5.4 | 5.2 | 7.1 | 5.0 | 4.3 | 5.7 | 6.0 | 5.9 | 5.1 | 5.0 | 5.4 | 5.3 | 4.3 | 4.4 | 4.6 | ＋0．2 |
| 2．5－3．0 | 4.7 | 4.0 | 4.3 | 5.2 | 6.2 | $5.3 \ddagger$ | 6.7 | 7.9 | 6.5 | 7.9 | 7.7 | 6.9 | 6.5 | 5.5 | 7.0 | 6.4 | 5.5 | 5.9 | 4.5 | 5.1 | 4.9 | －0．2 |
| 3．5－4．0 | 4.3 | 4.7 | 4.6 | 6.0 | 6.4 | $5.6 \ddagger$ | 7.7 | 8.4 | 7.6 | 9.0 | 7.3 | 6.9 | 6.4 | 7.4 | 6.2 | 6.1 | 6.7 | 5.7 | 5.8 | 4.7 | 5.5 | ＋0．7 |
| 4．5－5．0 | 4.5 | 4.6 | 5.4 | 4.9 | 5.4 | 5．9才 | 7.4 | 7.9 | 5.9 | 7.1 | 6.8 | 6.6 | 6.3 | 5.7 | 6.5 | 5.1 | 5.2 | 4.9 | 4.0 | 4.8 | 4.5 | －0．3 |
| 5．5－6．0（High） | 4.1 | 5.3 | 5.1 | 5.5 | 5.6 | $5.8 \ddagger$ | 6.0 | 7.9 | 6.2 | 5.4 | 5.9 | 6.4 | 5.5 | 6.0 | 5.9 | 4.2 | 4.6 | 4.6 | 4.0 | 4.4 | 4.3 | －0．1 |
| Race／Ethnicity（2－year average）：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 4.6 | 5.1 | 5.5 | 6.2 | 6.8 | 6.9 | 7．7\＃ | $9.2{ }^{\text {f }}$ | 8.7 | 8.4 | 8.6 | 8.2 | 7.9 | 7.9 | 8.0 | 7.3 | 6.8 | 6.7 | 5.9 | 5.1 | 5.0 | －0．1 |
| African American | 1.2 | 0.9 | 0.8 | 1.0 | 1.0 | 0.7 | 0．6ł | $1.1{ }^{\text {f }}$ | 1.3 | 1.7 | 1.9 | 1.6 | 1.3 | 1.0 | 1.2 | 2.2 | 2.3 | 1.6 | 1.7 | 2.5 | 2.8 | ＋0．3 |
| Hispanic | 3.5 | 4.3 | 3.8 | 3.3 | 3.5 | 4.3 | 3．9才 | $4.1{ }^{\text {f }}$ | 4.5 | 4.5 | 4.3 | 4.3 | 4.5 | 4.2 | 4.0 | 3.9 | 3.9 | 3.9 | 3.8 | 4.2 | 4.6 | ＋0．4 |

Source．The Monitoring the Future study，the University of Michigan
Notes．＇$\ddagger$＇indicates some change in the question．See relevant footnote．See relevant figure to assess the impact of the wording changes．Level of significance of difference between the two most recent classes：$s=.05$ ，ss $=.01$ ，sss $=.001$ ．
－＇indicates data not available．Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding．See Table S3 for the number of subgroup cases．See appendix B for definition of variables in table
${ }^{\text {a }}$ Only drug use not under a doctor＇s orders is included here．
${ }^{\mathrm{b}}$ Parental education is an average score of mother＇s education and father＇s education．See appendix B for details．
${ }^{\text {c }}$ To derive percentages for each racial subgroup，data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates．See appendix $B$ for details on how race／ethnicity is defined．
${ }^{\text {d }}$ In 2001，for the tranquilizer list of examples，Miltown was replaced with Xanax．The 2001 data are based on the changed forms only；$N$ is one half of $N$ indicated．In 2002 the remaining forms were changed．Beginning in 2002 ，the data are based on
all forms．Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner
${ }^{\text {e }}$ In 2007，for the list of tranquilizers，Equanil and meprobamate were replaced with Soma while Atarax，Tranxene，and Vistaril were replaced with Ativan and Klonopin．
＇Due to changes in the question wording in half of the questionnaire forms in 2001 ，the 2002 entry comprises half of the 2001 sample data double－weighted（the half with the new version of the question）and all of the 2002 sample data

## TABLE 78

OVER-THE-COUNTER COUGH/COLD MEDICINES: Trends in Annual Prevalence of Use by Subgroups in Grade 8

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1991- \\ \underline{2005} \end{gathered}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | - | 16,500 | 16,100 | 15,700 | 15,000 | 15,300 | 16,000 | 15,100 | 14,600 | 14,600 | 14,400 |  |
| Total | - | 4.2 | 4.0 | 3.6 | 3.8 | 3.2 | 2.7 | 3.0 | 2.9 | 2.0 | 1.6 | -0.4 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 3.4 | 3.1 | 2.7 | 3.7 | 2.7 | 2.2 | 1.7 | 2.7 | 1.4 | 1.1 | -0.3 |
| Female | - | 4.7 | 5.0 | 4.3 | 3.8 | 3.7 | 3.1 | 3.9 | 3.0 | 2.5 | 2.1 | -0.4 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 11.9 | 8.0 | 7.1 | 12.9 | 5.9 | 5.9 | 6.4 | 8.2 | 5.2 | 4.5 | -0.7 |
| Complete 4 years | - | 3.4 | 3.6 | 3.3 | 3.1 | 2.9 | 2.5 | 2.8 | 2.6 | 1.8 | 1.4 | -0.4 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 3.4 | 2.4 | 2.5 | 2.7 | 2.2 | 2.3 | 1.6 | 2.6 | 1.8 | 1.2 | -0.6 |
| Midwest | - | 4.5 | 4.0 | 3.8 | 3.8 | 3.0 | 2.4 | 2.6 | 1.9 | 1.6 | 1.6 | -0.1 |
| South | - | 4.2 | 4.8 | 4.1 | 4.5 | 3.2 | 2.7 | 3.9 | 3.1 | 2.2 | 2.0 | -0.2 |
| West | - | 4.4 | 3.6 | 3.3 | 3.3 | 4.1 | 3.5 | 3.0 | 3.8 | 2.3 | 1.2 | -1.0 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 3.5 | 2.7 | 3.1 | 3.4 | 2.6 | 1.7 | 3.1 | 3.6 | 1.6 | 1.3 | -0.3 |
| Other MSA | - | 4.4 | 4.8 | 3.5 | 3.8 | 3.7 | 3.5 | 3.0 | 2.7 | 2.2 | 1.7 | -0.4 |
| Non-MSA | - | 4.6 | 4.2 | 4.3 | 4.3 | 3.0 | 2.7 | 2.8 | 2.3 | 2.2 | 1.8 | -0.4 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 6.2 | 5.7 | 4.8 | 9.2 | 4.1 | 5.0 | 4.6 | 3.1 | 2.8 | 1.5 | -1.3 |
| 2.5-3.0 | - | 5.1 | 4.5 | 4.4 | 4.6 | 4.0 | 3.7 | 3.3 | 3.9 | 1.0 | 2.7 | +1.6 s |
| 3.5-4.0 | - | 4.4 | 5.4 | 3.8 | 4.2 | 3.1 | 3.7 | 4.0 | 3.2 | 2.7 | 1.3 | -1.4 |
| 4.5-5.0 | - | 3.8 | 3.4 | 3.4 | 3.3 | 2.1 | 1.9 | 1.9 | 3.2 | 1.7 | 1.6 | -0.1 |
| 5.5-6.0 (High) | - | 3.0 | 2.0 | 2.5 | 1.7 | 3.3 | 1.0 | 2.0 | 1.5 | 2.5 | 1.1 | -1.4 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 4.5 | 4.1 | 3.7 | 3.3 | 2.9 | 2.6 | 2.6 | 2.6 | 1.9 | -0.6 ss |
| African American | - | - | 2.2 | 2.3 | 2.7 | 2.8 | 2.3 | 3.0 | 3.2 | 2.1 | 1.9 | -0.1 |
| Hispanic | - | - | 4.4 | 3.8 | 3.6 | 3.9 | 3.2 | 3.8 | 3.9 | 2.8 | 1.5 | -1.2 ss |
| Notes. Level of significance of difference between the two most recent classes: $\mathrm{s}=.05, \mathrm{ss}=.01, \mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the numb of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in Table S 1 . |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details. ${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined. |  |  |  |  |  |  |  |  |  |  |  |  |

## TABLE 79

OVER-THE-COUNTER COUGH/COLD MEDICINES: Trends in Annual Prevalence of Use by Subgroups in Grade 10

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1991- \\ \underline{2005} \\ \hline \end{gathered}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | - | 16,200 | 16,100 | 15,100 | 15,900 | 15,200 | 14,900 | 15,000 | 12,900 | 13,000 | 15,600 |  |
| Total | - | 5.3 | 5.4 | 5.3 | 6.0 | 5.1 | 5.5 | 4.7 | 4.3 | 3.7 | 3.3 | -0.4 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 5.1 | 4.6 | 4.9 | 5.9 | 5.5 | 5.4 | 5.5 | 4.6 | 3.8 | 3.0 | -0.9 |
| Female | - | 5.5 | 6.3 | 5.7 | 6.0 | 4.9 | 5.8 | 4.1 | 3.5 | 3.3 | 3.5 | +0.3 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 9.9 | 9.7 | 11.3 | 13.5 | 10.8 | 13.6 | 10.2 | 8.0 | 9.2 | 9.3 | +0.1 |
| Complete 4 years | - | 4.6 | 4.8 | 4.6 | 5.2 | 4.5 | 4.6 | 4.2 | 3.9 | 3.0 | 2.6 | -0.3 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 4.1 | 5.8 | 3.5 | 4.1 | 4.4 | 5.3 | 4.5 | 4.4 | 3.1 | 2.2 | -0.8 |
| Midwest | - | 4.3 | 5.4 | 5.4 | 6.2 | 4.9 | 6.0 | 4.3 | 3.5 | 3.3 | 3.2 | -0.2 |
| South | - | 6.3 | 5.9 | 6.6 | 6.9 | 5.0 | 6.2 | 5.7 | 4.2 | 4.4 | 3.4 | -0.9 |
| West | - | 6.0 | 4.7 | 4.8 | 6.3 | 6.3 | 4.2 | 4.0 | 5.1 | 3.5 | 4.2 | +0.8 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 4.3 | 4.7 | 4.3 | 5.3 | 5.1 | 4.1 | 4.2 | 4.3 | 3.8 | 2.6 | -1.2 |
| Other MSA | - | 5.5 | 5.6 | 6.2 | 6.8 | 4.7 | 6.4 | 4.7 | 4.0 | 3.3 | 3.6 | +0.3 |
| Non-MSA | - | 6.3 | 6.3 | 4.7 | 5.3 | 6.1 | 5.9 | 5.5 | 5.0 | 4.3 | 3.7 | -0.6 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 5.1 | 6.4 | 6.8 | 9.7 | 9.3 | 8.0 | 6.2 | 5.4 | 3.5 | 5.1 | +1.5 |
| 2.5-3.0 | - | 6.2 | 7.4 | 5.9 | 7.3 | 6.0 | 6.2 | 5.9 | 5.3 | 2.9 | 3.9 | +1.0 |
| 3.5-4.0 | - | 6.2 | 6.0 | 5.0 | 6.5 | 5.3 | 5.5 | 5.8 | 5.2 | 4.7 | 3.4 | -1.2 |
| 4.5-5.0 | - | 4.1 | 4.5 | 5.6 | 4.5 | 3.4 | 5.1 | 3.5 | 3.0 | 2.9 | 2.9 | 0.0 |
| 5.5-6.0 (High) | - | 5.1 | 3.0 | 3.9 | 5.2 | 5.1 | 4.6 | 3.6 | 2.9 | 3.6 | 2.6 | -1.0 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 6.0 | 6.2 | 6.4 | 5.8 | 5.4 | 5.1 | 4.7 | 4.2 | 3.7 | -0.5 |
| African American | - | - | 3.9 | 3.1 | 2.1 | 2.6 | 3.8 | 2.7 | 2.3 | 3.6 | 3.4 | -0.2 |
| Hispanic | - | - | 3.2 | 4.0 | 5.5 | 5.6 | 5.7 | 6.5 | 5.0 | 3.5 | 2.4 | -1.1 |
| Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01, s s s=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S 2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; $N$ is one third of $N$ indicated in Table S2. |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Not <br>  <br> ${ }^{\mathrm{b}}$ To derive percentages for each racial subgro <br> thus provide more stable estimates. See appe | s above) ther's ed up, data ndix B for | . Use ca ucation an or the spe details on | ution in in <br> d father's <br> cified year <br> h how race | terpretin <br> education and the <br> e/ethnicity | g subgro <br> . See app <br> previous y <br> is defined | up trends pendix B f year have . | details. been com | bined to in | crease su | ubgroup sa | ample size |  |

## TABLE 80

OVER-THE-COUNTER COUGH/COLD MEDICINES:
Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1991- \\ \underline{2005} \end{gathered}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | - | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | - | 6.9 | 5.8 | 5.5 | 5.9 | 6.6 | 5.3 | 5.6 | 5.0 | 4.1 | 4.6 | +0.4 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 7.6 | 5.9 | 6.3 | 8.1 | 7.7 | 5.6 | 6.1 | 5.9 | 4.8 | 5.8 | +1.0 |
| Female | - | 5.9 | 5.1 | 4.7 | 4.1 | 5.4 | 4.7 | 4.5 | 4.2 | 3.3 | 3.2 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 8.9 | 8.3 | 7.6 | 7.1 | 8.6 | 7.3 | 8.4 | 7.3 | 4.3 | 5.6 | +1.3 |
| Complete 4 years | - | 6.2 | 5.2 | 4.9 | 5.5 | 6.1 | 4.9 | 4.8 | 4.4 | 3.9 | 4.2 | +0.3 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 5.9 | 7.8 | 4.4 | 5.1 | 7.4 | 5.6 | 4.9 | 5.1 | 3.8 | 3.8 | 0.0 |
| Midwest | - | 6.6 | 6.8 | 4.4 | 6.7 | 5.9 | 6.1 | 5.8 | 4.6 | 4.3 | 4.2 | -0.1 |
| South | - | 7.6 | 5.2 | 6.7 | 6.2 | 6.6 | 5.5 | 5.6 | 5.7 | 4.6 | 4.6 | 0.0 |
| West | - | 6.7 | 4.2 | 5.8 | 4.8 | 6.6 | 4.1 | 5.8 | 4.5 | 3.5 | 5.4 | +1.9 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 7.6 | 5.4 | 4.9 | 5.7 | 6.3 | 5.2 | 5.9 | 5.0 | 2.8 | 4.7 | +1.9 s |
| Other MSA | - | 6.0 | 5.9 | 5.5 | 6.6 | 6.8 | 5.4 | 5.2 | 4.9 | 4.8 | 4.4 | -0.4 |
| Non-MSA | - | 7.5 | 6.1 | 6.4 | 4.4 | 6.2 | 5.4 | 6.0 | 5.4 | 4.3 | 4.7 | +0.4 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 7.7 | 7.2 | 6.8 | 7.8 | 7.4 | 7.3 | 5.7 | 5.9 | 3.6 | 3.3 | -0.3 |
| 2.5-3.0 | - | 6.2 | 6.7 | 5.0 | 6.1 | 6.2 | 5.7 | 5.5 | 4.3 | 5.6 | 4.8 | -0.8 |
| 3.5-4.0 | - | 7.7 | 4.6 | 6.3 | 5.7 | 7.9 | 4.9 | 5.6 | 6.3 | 2.8 | 5.9 | +3.1 s |
| 4.5-5.0 | - | 6.7 | 6.8 | 4.8 | 5.6 | 5.3 | 4.9 | 6.0 | 4.1 | 4.5 | 4.0 | -0.5 |
| 5.5-6.0 (High) | - | 4.9 | 4.0 | 4.4 | 5.1 | 5.9 | 5.6 | 5.3 | 3.9 | 4.1 | 3.2 | -0.9 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 6.3 | 5.8 | 5.9 | 6.4 | 6.2 | 5.6 | 5.3 | 4.5 | 4.2 | -0.2 |
| African American | - | - | 5.0 | 4.2 | 4.5 | 4.6 | 4.6 | 3.8 | 3.7 | 4.5 | 4.8 | +0.3 |
| Hispanic | - | - | 7.9 | 6.0 | 6.0 | 7.1 | 5.4 | 5.4 | 5.8 | 3.8 | 4.2 | +0.3 |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01$, $s s s=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on two of six forms; $N$ is two sixths of $N$ indicated in Table S3. |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. <br>  <br> ${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined. |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 81
ROHYPNOL: Trends in Annual Prevalence of Use by Subgroups in Grade 8

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1991- \\ 1995 \end{gathered}$ | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |  |
| Approximate weighted $N=$ | - | 17,800 | 18,600 | 18,100 | 16,700 | 16,700 | 16,200 | 15,100 | 16,500 | 17,000 | 16,800 | 16,500 | 16,100 | 15,700 | 15,000 | 15,300 | 16,000 | 15,100 | 14,600 | 14,600 | 14,400 |  |
| Total | - | 1.0 | 0.8 | 0.8 | 0.5 | 0.5 | 0.7 | 0.3 | 0.5 | 0.6 | 0.7 | 0.5 | 0.7 | 0.5 | 0.4 | 0.5 | 0.8 | 0.4 | 0.4 | 0.3 | 0.3 | 0.0 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 1.1 | 0.7 | 0.8 | 0.6 | 0.5 | 0.6 | 0.2 | 0.4 | 0.5 | 0.7 | 0.7 | 0.6 | 0.6 | 0.4 | 0.3 | 0.7 | 0.4 | 0.5 | 0.3 | 0.5 | +0.2 |
| Female | - | 1.0 | 0.9 | 0.9 | 0.2 | 0.6 | 0.7 | 0.2 | 0.4 | 0.7 | 0.7 | 0.4 | 0.7 | 0.3 | 0.4 | 0.7 | 0.8 | 0.3 | 0.3 | 0.4 | 0.2 | -0.2 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 2.5 | 1.5 | 3.0 | 0.9 | 2.2 | 2.0 | 1.0 | 1.3 | 2.4 | 1.8 | 1.1 | 3.3 | 2.6 | 2.4 | 0.5 | 1.8 | 3.1 | 2.2 | 0.9 | 1.5 | +0.6 |
| Complete 4 years | - | 0.8 | 0.7 | 0.6 | 0.4 | 0.4 | 0.5 | 0.2 | 0.4 | 0.4 | 0.6 | 0.5 | 0.4 | 0.3 | 0.2 | 0.5 | 0.7 | 0.2 | 0.3 | 0.3 | 0.2 | 0.0 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 0.9 | 0.3 | 0.9 | 0.3 | 0.6 | 0.9 | 0.2 | 0.2 | 0.3 | 0.6 | 1.4 | 0.1 | 0.0 | 0.0 | 0.5 | 0.9 | 0.4 | 0.5 | 0.2 | 0.0 | -0.2 |
| Midwest | - | 0.9 | 0.8 | 0.8 | 0.3 | 0.4 | 1.0 | 0.4 | 0.2 | 0.8 | 0.6 | 0.0 | 0.8 | 0.7 | 0.6 | 0.4 | 0.6 | 0.1 | 0.0 | 0.5 | 0.0 | -0.5 |
| South | - | 1.3 | 1.1 | 0.9 | 0.7 | 0.9 | 0.6 | 0.4 | 0.6 | 0.5 | 0.5 | 0.6 | 0.7 | 0.6 | 0.4 | 0.7 | 0.4 | 0.6 | 0.5 | 0.2 | 0.4 | +0.2 |
| West | - | 1.0 | 0.7 | 0.8 | 0.5 | * | 0.4 | 0.1 | 0.7 | 0.7 | 1.1 | 0.2 | 0.8 | 0.5 | 0.5 | 0.5 | 1.7 | 0.4 | 0.6 | 0.4 | 0.6 | +0.2 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 1.2 | 0.8 | 0.7 | 0.4 | 0.9 | 1.2 | 0.1 | 0.1 | 0.5 | 0.4 | 0.6 | 0.4 | 0.6 | 0.1 | 0.4 | 1.1 | 0.4 | 0.3 | 0.2 | 0.3 | +0.1 |
| Other MSA | - | 1.1 | 0.9 | 1.0 | 0.6 | 0.5 | 0.5 | 0.3 | 0.4 | 0.8 | 0.7 | 0.5 | 0.8 | 0.5 | 0.6 | 0.7 | 0.7 | 0.3 | 0.6 | 0.3 | 0.5 | +0.1 |
| Non-MSA | - | 0.8 | 0.7 | 0.8 | 0.3 | 0.2 | 0.4 | 0.5 | 1.0 | 0.3 | 1.0 | 0.5 | 0.8 | 0.4 | 0.4 | 0.3 | 0.5 | 0.6 | 0.2 | 0.4 | 0.0 | -0.4 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 2.0 | 2.1 | 2.2 | 0.2 | 0.9 | 1.3 | 0.9 | 1.8 | 2.4 | 0.6 | 0.7 | 0.5 | 0.7 | 1.4 | 1.4 | 0.3 | 1.6 | 0.3 | 0.7 | 0.0 | -0.7 |
| 2.5-3.0 | - | 1.1 | 1.1 | 0.8 | 0.3 | 0.8 | 0.3 | 0.0 | 0.9 | 0.1 | 1.3 | 0.1 | 0.5 | 0.5 | 0.0 | 0.0 | 1.0 | 0.5 | 0.7 | 0.4 | 0.2 | -0.2 |
| 3.5-4.0 | - | 1.2 | 0.7 | 0.9 | 0.6 | 0.2 | 1.2 | 0.2 | 0.1 | 0.2 | 0.4 | 0.7 | 0.7 | 0.7 | 0.3 | 0.6 | 1.0 | 0.4 | 0.4 | 0.2 | 0.8 | +0.7 |
| 4.5-5.0 | - | 0.8 | 0.6 | 0.6 | 0.5 | 0.4 | 0.7 | 0.6 | 0.4 | 0.6 | 0.9 | 0.1 | 0.9 | 0.2 | 0.6 | 0.6 | 0.6 | 0.3 | 0.7 | 0.1 | 0.3 | +0.2 |
| 5.5-6.0 (High) | - | 0.8 | 0.5 | 0.9 | 0.7 | 0.9 | 0.2 | 0.2 | 0.0 | 0.1 | 0.5 | 1.5 | 0.4 | 0.3 | 0.1 | 0.4 | 1.0 | 0.2 | 0.0 | 0.4 | 0.0 | -0.4 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 0.9 | 0.8 | 0.7 | 0.5 | 0.6 | 0.5 | 0.4 | 0.4 | 0.5 | 0.5 | 0.4 | 0.5 | 0.6 | 0.4 | 0.3 | 0.4 | 0.4 | 0.3 | 0.2 | 0.0 |
| African American | - | - | 0.4 | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.3 | 0.9 | 0.7 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.3 | 0.7 | 0.6 | 0.6 | 0.6 | 0.0 |
| Hispanic | - | - | 1.4 | 1.5 | 1.5 | 0.6 | 0.9 | 0.8 | 0.4 | 1.0 | 0.8 | 0.6 | 1.1 | 1.0 | 0.5 | 0.8 | 1.6 | 1.2 | 0.3 | 0.4 | 0.3 | -0.1 |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  <br>  <br>  based on one of four forms beginning in 2002; $N$ is one sixth of $N$ indicated in Table S1. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\mathrm{b}}$ To derive percentages for each racial sub is defined. | group, | ata for the | specified | year and | the previou | us year ha | ave been | combined | to increas | se subgrou | up sample | sizes and | dhus provid | vide more | stable es | timates. | ee appen | dix B for | etails on | how race/e | ethnicity |  |

TABLE 82
ROHYPNOL: Trends in Annual Prevalence of Use by Subgroups in Grade 10

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1991- \\ \underline{1995} \\ \hline \end{gathered}$ | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | 2007 | 2008 | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | - | 15,600 | 15,500 | 15,000 | 13,600 | 14,300 | 14,000 | 14,300 | 15,800 | 16,400 | 16,200 | 16,200 | 16,100 | 15,100 | 15,900 | 15,200 | 14,900 | 15,000 | 12,900 | 13,000 | 15,600 |  |
| Total | - | 1.1 | 1.3 | 1.2 | 1.0 | 0.8 | 1.0 | 0.7 | 0.6 | 0.7 | 0.5 | 0.5 | 0.7 | 0.4 | 0.4 | 0.6 | 0.6 | 0.5 | 0.6 | 0.5 | 0.2 | -0.3 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 1.1 | 1.4 | 1.4 | 1.2 | 1.0 | 1.1 | 0.4 | 0.7 | 0.8 | 0.3 | 0.4 | 0.7 | 0.3 | 0.3 | 0.6 | 0.8 | 0.4 | 0.7 | 0.7 | 0.1 | -0.6 |
| Female | - | 1.1 | 1.1 | 1.1 | 0.9 | 0.6 | 0.9 | 0.9 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.3 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 2.9 | 2.7 | 2.9 | 2.8 | 1.4 | 2.8 | 0.5 | 0.3 | 1.4 | 1.6 | 1.5 | 1.4 | 0.5 | 0.9 | 1.2 | 0.9 | 2.3 | 0.6 | 1.8 | 0.7 | -1.0 |
| Complete 4 years | - | 0.8 | 1.1 | 0.9 | 0.8 | 0.6 | 0.7 | 0.7 | 0.6 | 0.6 | 0.3 | 0.4 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.3 | 0.6 | 0.4 | 0.2 | -0.3 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 0.6 | 0.7 | 0.9 | 0.4 | 0.6 | 0.9 | 0.4 | 1.0 | 0.8 | 0.7 | 0.3 | 0.5 | 0.7 | 0.2 | 0.9 | 0.6 | 0.8 | 0.3 | 0.1 | 0.1 | 0.0 |
| Midwest | - | 0.5 | 0.8 | 1.0 | 0.9 | 0.4 | 0.9 | 0.3 | 0.2 | 0.3 | 0.2 | 1.0 | 1.4 | 0.2 | 0.9 | 0.3 | 0.5 | 0.3 | 1.1 | 0.5 | 0.1 | -0.4 |
| South | - | 1.9 | 2.4 | 2.0 | 1.8 | 1.2 | 1.0 | 0.4 | 0.8 | 0.9 | 0.7 | 0.7 | 0.5 | 0.4 | 0.3 | 0.8 | 0.8 | 0.5 | 0.4 | 0.8 | 0.4 | -0.3 |
| West | - | 1.1 | 0.6 | 0.5 | 0.6 | 0.7 | 1.3 | 2.0 | 0.4 | 0.9 | 0.2 | 0.0 | 0.4 | 0.4 | 0.3 | 0.2 | 0.6 | 0.5 | 0.4 | 0.7 | 0.1 | -0.6 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 1.1 | 1.3 | 1.3 | 0.9 | 0.9 | 1.2 | 0.7 | 0.3 | 0.6 | 0.3 | 0.2 | 0.7 | 0.1 | 0.3 | 0.5 | 0.7 | 0.5 | 0.8 | 0.3 | 0.4 | +0.2 |
| Other MSA | - | 1.4 | 1.3 | 1.3 | 1.3 | 0.9 | 0.8 | 0.9 | 0.4 | 0.7 | 0.5 | 0.7 | 0.6 | 0.7 | 0.5 | 0.7 | 0.5 | 0.4 | 0.4 | 0.4 | 0.1 | -0.3 |
| Non-MSA | - | 0.6 | 1.3 | 1.0 | 0.7 | 0.5 | 1.2 | 0.3 | 1.5 | 0.8 | 0.5 | 0.8 | 0.9 | 0.3 | 0.4 | 0.4 | 0.9 | 0.5 | 0.7 | 1.3 | 0.0 | -1.3 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 1.7 | 1.3 | 1.7 | 1.2 | 1.3 | 2.3 | 0.4 | 1.3 | 0.4 | 1.1 | 1.4 | 0.4 | 1.2 | 0.2 | 0.7 | 0.0 | 0.8 | 0.6 | 0.6 | 0.9 | +0.3 |
| 2.5-3.0 | - | 1.0 | 1.1 | 1.6 | 1.6 | 0.5 | 1.1 | 0.9 | 0.7 | 0.4 | 0.5 | 0.3 | 0.6 | 0.3 | 0.4 | 0.3 | 0.6 | 0.8 | 0.5 | 1.3 | 0.0 | -1.3 |
| 3.5-4.0 | - | 1.5 | 1.6 | 1.0 | 0.8 | 0.8 | 0.7 | 1.0 | 0.9 | 1.0 | 0.4 | 0.7 | 0.5 | 0.5 | 0.9 | 0.4 | 0.5 | 0.0 | 0.8 | 0.8 | 0.0 | -0.8 |
| 4.5-5.0 | - | 0.7 | 1.5 | 0.9 | 0.6 | 0.7 | 1.1 | 0.7 | 0.2 | 0.6 | 0.6 | 0.3 | 0.6 | 0.2 | 0.1 | 0.6 | 1.2 | 0.2 | 0.6 | 0.1 | 0.2 | 0.0 |
| 5.5-6.0 (High) | - | 1.1 | 0.8 | 1.3 | 1.1 | 0.8 | 0.3 | 0.2 | 0.4 | 1.0 | 0.0 | 0.0 | 1.1 | 0.6 | 0.6 | 1.0 | 0.0 | 1.1 | 0.4 | 0.0 | 0.5 | +0.5 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 1.4 | 1.5 | 1.5 | 1.0 | 1.0 | 1.0 | 0.6 | 0.9 | 0.8 | 0.5 | 0.6 | 0.5 | 0.5 | 0.6 | 0.8 | 0.6 | 0.5 | 0.7 | 0.5 | -0.2 |
| African American | - | - | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.1 | 0.2 | 0.4 | 0.3 | 0.0 | 0.0 | 0.1 | 0.3 | 0.5 | 0.3 | 0.1 | 0.5 | 0.3 | -0.1 |
| Hispanic | - | - | 1.0 | 1.2 | 1.1 | 0.7 | 0.9 | 1.0 | 0.7 | 0.3 | 0.2 | 0.6 | 0.8 | 0.6 | 0.3 | 0.4 | 0.3 | 0.3 | 0.5 | 0.7 | 0.3 | -0.4 |
|  <br>  <br>  sixth of $N$ indicated in Table S2. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see ${ }^{\text {a }}$ Parental education is an average score of ${ }^{\mathrm{b}}$ To derive percentages for each racial sub is defined. | Notes ab mother's group, | ove). Us educatio ta for the | caution and fath specified | in interpr er's educa year and th | reting sub ation. See the previo | bgroup tr appendix us year ha | ends. <br> B for det <br> ave been | ails. combined | to increas | e subgrou | p sample | sizes and | thus prov | ide more | stable est | imates. S | ee appenc | dix B for d | etails on | how race/e | thnicity |  |

# TABLE 83 

ROHYPNOL：Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline 1975- \\ \underline{1995} \end{gathered}$ | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}{ }^{\text {a }}$ | $\underline{2002}^{\text {a }}$ | $\underline{2003}$ | 2004 | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | 2008 | $\underline{2009}$ | $\underline{2010}$ | 2011 | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | － | 14，300 | 15，400 | 15，200 | 13，600 | 12，800 | 12，800 | 12，900 | 14，600 | 14，600 | 14，700 | 14，200 | 14，500 | 14，000 | 13，700 | 14，400 | 14，100 | 13，700 | 12，600 | 12，400 | 12，900 |  |
| Total | － | 1.1 | 1.2 | 1.4 | 1.0 | 0.8 | 0．9才 | 1.6 | 1.3 | 1.6 | 1.2 | 1.1 | 1.0 | 1.3 | 1.0 | 1.5 | 1.3 | 1.5 | 0.9 | 0.7 | 1.0 | ＋0．3 |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | － | 1.8 | 1.2 | 1.7 | 1.0 | 0.8 | 1．1才 | 2.3 | 2.0 | 2.3 | 1.5 | 1.3 | 0.9 | 1.5 | 1.1 | 2.2 | 2.0 | 1.2 | 0.9 | 0.9 | 0.9 | －0．1 |
| Female | － | 0.3 | 1.1 | 1.1 | 1.0 | 0.7 | $0.6 \ddagger$ | 1.0 | 0.5 | 0.7 | 0.8 | 0.5 | 0.7 | 0.8 | 0.8 | 0.7 | 0.5 | 0.7 | 0.7 | 0.4 | 0.7 | ＋0．4 |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | － | 1.4 | 0.5 | 1.8 | 1.0 | 0.1 | $1.2 \ddagger$ | 2.5 | 2.1 | 3.0 | 2.4 | 1.6 | 1.8 | 2.3 | 1.8 | 3.8 | 1.7 | 2.7 | 1.7 | 0.6 | 1.0 | ＋0．4 |
| Complete 4 years | － | 0.8 | 1.3 | 1.3 | 1.0 | 0.9 | 0．8才 | 1.4 | 0.9 | 1.0 | 0.9 | 0.8 | 0.7 | 1.0 | 0.8 | 0.9 | 1.2 | 0.8 | 0.6 | 0.7 | 0.8 | 0.0 |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | － | 0.9 | 0.6 | 1.2 | 0.8 | 0.3 | $1.7 \ddagger$ | 1.2 | 1.4 | 0.8 | 1.1 | 1.3 | 1.7 | 0.8 | 0.7 | 2.2 | 1.9 | 0.9 | 0.9 | 1.3 | 0.2 | －1．1 |
| Midwest | － | 1.0 | 0.5 | 1.0 | 0.8 | 0.9 | 0．5才 | 1.8 | 1.2 | 1.3 | 1.7 | 0.8 | 0.9 | 1.0 | 1.3 | 1.5 | 0.6 | 1.1 | 1.0 | 0.5 | 1.6 | ＋1．1 |
| South | － | 1.8 | 2.2 | 2.6 | 1.6 | 1.3 | $1.0 \ddagger$ | 1.5 | 1.4 | 2.1 | 1.3 | 1.3 | 1.0 | 2.0 | 1.1 | 1.0 | 1.7 | 2.3 | 1.0 | 0.7 | 1.0 | ＋0．4 |
| West | － | 0.1 | 0.8 | 0.0 | 0.2 | 0.1 | $0.8 \ddagger$ | 2.0 | 1.1 | 1.8 | 0.6 | 1.3 | 0.5 | 0.9 | 0.5 | 1.8 | 1.0 | 1.1 | 0.7 | 0.3 | 0.8 | ＋0．5 |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | － | 1.3 | 0.9 | 0.8 | 0.3 | 0.3 | $1.0 \ddagger$ | 1.6 | 1.1 | 1.8 | 1.4 | 1.2 | 1.0 | 0.6 | 1.0 | 1.5 | 0.7 | 1.4 | 0.5 | 0.7 | 1.4 | ＋0．7 |
| Other MSA | － | 1.3 | 1.5 | 2.2 | 1.4 | 1.1 | $1.2 \ddagger$ | 2.0 | 1.7 | 1.6 | 1.2 | 1.0 | 1.1 | 1.8 | 1.2 | 1.5 | 1.4 | 1.1 | 0.9 | 0.8 | 0.9 | ＋0．1 |
| Non－MSA | － | 0.7 | 0.7 | 0.6 | 0.9 | 0.7 | $0.3 \ddagger$ | 1.1 | 0.9 | 1.2 | 1.1 | 1.4 | 0.8 | 1.0 | 0.4 | 1.3 | 1.8 | 2.6 | 1.5 | 0.4 | 0.6 | ＋0．1 |
| Parental Education：${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | － | 1.6 | 0.4 | 0.6 | 4.7 | 0.0 | $4.2 \ddagger$ | 3.7 | 2.8 | 3.4 | 3.9 | 1.2 | 1.3 | 1.6 | 2.1 | 1.0 | 3.6 | 1.4 | 2.1 | 3.2 | 0.7 | －2．5 sss |
| 2．5－3．0 | － | 0.5 | 0.6 | 1.0 | 0.3 | 0.4 | $0.4 \ddagger$ | 2.9 | 1.8 | 1.8 | 1.2 | 1.2 | 0.8 | 1.7 | 1.2 | 1.2 | 1.0 | 1.1 | 1.2 | 0.5 | 0.3 | －0．2 |
| 3．5－4．0 | － | 0.8 | 1.4 | 1.1 | 1.1 | 1.5 | $0.8 \ddagger$ | 0.8 | 1.2 | 1.5 | 1.4 | 1.0 | 0.5 | 1.3 | 0.8 | 1.3 | 1.1 | 1.4 | 0.3 | 0.3 | 0.8 | ＋0．6 |
| 4．5－5．0 | － | 0.9 | 1.7 | 2.7 | 0.3 | 0.6 | $0.8 \ddagger$ | 1.6 | 0.9 | 0.6 | 0.3 | 1.2 | 1.4 | 0.7 | 0.4 | 1.4 | 1.0 | 1.4 | 0.4 | 0.5 | 0.6 | ＋0．1 |
| 5．5－6．0（High） | － | 1.8 | 1.7 | 1.4 | 0.7 | 0.0 | $0.2 \ddagger$ | 0.8 | 0.2 | 1.5 | 0.9 | 0.7 | 0.9 | 0.6 | 0.9 | 2.0 | 1.0 | 1.1 | 0.0 | 0.0 | 0.3 | ＋0．3 |
| Race／Ethnicity（2－year average）：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | － | － | 1.2 | 1.6 | 1.5 | 0.9 | $0.8 \ddagger$ | － | 1.5 | 1.3 | 1.1 | 0.9 | 0.7 | 0.9 | 1.0 | 1.1 | 1.3 | 0.9 | 0.7 | 0.4 | 0.4 | 0.0 |
| African American | － | － | 0.1 | 0.0 | 0.2 | 0.4 | $0.2 \ddagger$ | － | 0.8 | 1.2 | 1.7 | 1.3 | 1.6 | 2.1 | 1.7 | 1.2 | 1.3 | 1.8 | 2.0 | 1.9 | 2.1 | ＋0．2 |
| Hispanic | － | － | 2.0 | 1.3 | 1.0 | 0.6 | $1.3 \ddagger$ | － | 1.6 | 1.7 | 1.9 | 2.1 | 1.5 | 0.8 | 1.3 | 1.5 | 1.0 | 1.5 | 1.4 | 0.8 | 0.5 | －0．3 |

Source．The Monitoring the Future study，the University of Michigan．
Notes．＇$\ddagger$＇indicates some change in the question．See relevant footnote．See relevant figure to assess the impact of the wording changes．Level of significance of difference between the two most recent classes： $\mathrm{s}=.05$ ，ss $=.01$ ，sss $=.001$ ．
－＇indicates data not available．Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding．See Table S3 for the number of subgroup cases．See appendix B for definition of variables in table．Data based on one of six forms in 1996－2001；$N$ is one sixth of $N$ indicated in Table S3．Data based on two of six forms beginning in 2002；$N$ is two sixths of $N$ indicated in Table S3．Data based on one of six forms beginning in 2010；$N$ is one sixth of $N$ indicated in Table S3．
Caution：Limited sample sizes（see Notes above）．Use caution in interpreting subgroup trends
${ }^{\text {a }}$ The 2001 and 2002 data are not comparable due to changes in the questionnaire forms．
${ }^{\mathrm{b}}$ Parental education is an average score of mother＇s education and father＇s education．See appendix B for details
${ }^{\text {c }}$ To derive percentages for each racial subgroup，data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates．See appendix $B$ for details on how race／ethnicity
is defined

## TABLE 84

ALCOHOL：Trends in 30－Day Prevalence of Use by Subgroups in Grade 8

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014－ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1991 | 1992 | $1993{ }^{\text {a }}$ | 1994 | 1995 | $\underline{1996}$ | 1997 | 1998 | 1999 | $\underline{2000}$ | 2001 | $\underline{2002}$ | $\underline{2003}$ | $2004^{\text {a }}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | change |
| Approximate weighted $N=$ | 17，500 | 18，600 | 18，300 | 17，300 | 17，500 | 17，800 | 18，600 | 18，100 | 16，700 | 16，700 | 16，200 | 15，100 | 16，500 | 17，000 | 16，800 | 16，500 | 16，100 | 15，700 | 15，000 | 15，300 | 16，000 | 15，100 | 14，600 | 14，600 | 14，400 |  |
| Total | 25.1 | 26．1才 | 24.3 | 25.5 | 24.6 | 26.2 | 24.5 | 23.0 | 24.0 | 22.4 | 21.5 | 19.6 | 19.7 | 18.6 | 17.1 | 17.2 | 15.9 | 15.9 | 14.9 | 13.8 | 12.7 | 11.0 | 10.2 | 9.0 | 9.7 | ＋0．7 |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 26.3 | $26.3 \ddagger$ | 25.3 | 26.5 | 25.0 | 26.6 | 25.2 | 24.0 | 24.8 | 22.5 | 22.3 | 19.1 | 19.4 | 17.9 | 16.2 | 16.3 | 15.6 | 15.4 | 14.7 | 13.2 | 12.1 | 10.3 | 9.3 | 8.2 | 9.1 | ＋0．9 |
| Female | 23.8 | $25.9 \ddagger$ | 23.7 | 24.7 | 24.0 | 25.8 | 23.9 | 21.9 | 23.3 | 22.0 | 20.6 | 20.0 | 19.8 | 19.0 | 17.9 | 17.6 | 16.0 | 16.4 | 14.9 | 14.3 | 12.8 | 11.6 | 11.2 | 9.5 | 9.9 | ＋0．5 |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 37.2 | 39．6才 | 41.1 | 41.4 | 40.0 | 41.7 | 40.2 | 41.2 | 41.6 | 38.3 | 37.0 | 35.3 | 35.3 | 32.6 | 32.6 | 30.8 | 33.5 | 30.4 | 31.7 | 25.7 | 24.6 | 23.3 | 23.6 | 17.0 | 15.5 | －1．5 |
| Complete 4 years | 23.1 | $24.2 \ddagger$ | 22.2 | 23.6 | 22.6 | 24.0 | 22.8 | 21.0 | 22.0 | 20.4 | 19.7 | 18.2 | 18.1 | 17.2 | 15.5 | 15.8 | 14.3 | 14.7 | 13.5 | 12.8 | 11.7 | 10.0 | 9.4 | 8.3 | 9.1 | ＋0．8 |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 24.3 | $23.8 \ddagger$ | 21.0 | 25.4 | 24.1 | 26.9 | 24.8 | 21.2 | 25.7 | 25.6 | 23.3 | 19.3 | 18.4 | 18.0 | 14.5 | 16.9 | 12.9 | 15.9 | 15.3 | 13.3 | 8.8 | 9.3 | 9.1 | 7.6 | 8.2 | ＋0．5 |
| Midwest | 26.6 | $28.3 \ddagger$ | 24.7 | 24.2 | 24.7 | 26.9 | 22.8 | 23.9 | 25.7 | 24.1 | 21.2 | 19.1 | 21.9 | 19.3 | 16.9 | 17.0 | 15.5 | 16.1 | 13.0 | 12.2 | 11.7 | 7.8 | 8.5 | 8.9 | 7.9 | －1．0 |
| South | 25.1 | $26.8 \ddagger$ | 25.4 | 25.6 | 25.5 | 26.3 | 26.4 | 23.8 | 24.4 | 20.9 | 22.8 | 21.6 | 20.8 | 18.8 | 19.0 | 18.5 | 17.1 | 18.2 | 17.4 | 15.7 | 14.2 | 13.3 | 12.5 | 9.8 | 10.8 | ＋1．0 |
| West | 23.1 | $23.5 \ddagger$ | 25.6 | 27.2 | 23.1 | 24.8 | 22.7 | 22.2 | 19.8 | 20.2 | 18.1 | 17.0 | 16.0 | 17.9 | 16.4 | 15.3 | 15.9 | 12.6 | 12.5 | 12.5 | 14.2 | 11.5 | 9.1 | 8.6 | 10.2 | ＋1．6 |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 25.4 | 27．4才 | 21.2 | 23.8 | 22.3 | 24.9 | 23.1 | 21.4 | 21.7 | 21.2 | 19.4 | 17.4 | 18.2 | 18.1 | 17.2 | 16.6 | 14.8 | 15.2 | 12.9 | 13.5 | 11.5 | 10.3 | 9.5 | 8.8 | 9.2 | ＋0．4 |
| Other MSA | 24.3 | 26．1才 | 26.0 | 27.4 | 25.3 | 27.4 | 24.9 | 22.4 | 23.4 | 21.3 | 21.5 | 20.1 | 19.4 | 19.1 | 17.9 | 17.4 | 16.1 | 16.3 | 15.9 | 14.0 | 13.1 | 11.8 | 10.4 | 9.0 | 9.6 | ＋0．7 |
| Non－MSA | 26.2 | $24.2 \ddagger$ | 24.9 | 23.8 | 26.0 | 25.7 | 25.4 | 26.0 | 28.1 | 26.1 | 24.1 | 21.4 | 22.3 | 18.1 | 15.6 | 17.5 | 16.8 | 16.2 | 15.5 | 13.5 | 13.6 | 10.6 | 11.1 | 9.2 | 10.4 | ＋1．2 |
| Parental Education：${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 30.7 | $32.8 \ddagger$ | 28.0 | 33.5 | 30.8 | 28.1 | 29.7 | 28.9 | 30.7 | 30.2 | 28.5 | 27.6 | 25.5 | 24.2 | 23.8 | 24.1 | 26.1 | 25.5 | 22.8 | 19.2 | 19.7 | 17.1 | 16.2 | 11.3 | 13.4 | ＋2．1 |
| 2．5－3．0 | 27.0 | $27.2 \ddagger$ | 28.0 | 27.4 | 27.8 | 30.1 | 26.2 | 26.5 | 27.9 | 26.3 | 27.0 | 23.2 | 24.0 | 22.1 | 20.4 | 20.0 | 20.3 | 19.3 | 18.3 | 17.4 | 16.6 | 15.3 | 13.2 | 11.5 | 11.6 | 0.0 |
| 3．5－4．0 | 25.1 | 26．3才 | 25.9 | 26.7 | 26.8 | 27.6 | 27.8 | 24.5 | 25.2 | 23.0 | 23.3 | 21.2 | 22.0 | 20.0 | 18.8 | 19.0 | 16.9 | 16.8 | 16.8 | 15.3 | 14.1 | 11.7 | 12.7 | 10.7 | 10.4 | －0．3 |
| 4．5－5．0 | 22.8 | 24．6 $\ddagger$ | 20.6 | 22.6 | 21.0 | 25.0 | 22.6 | 20.2 | 20.4 | 18.4 | 17.2 | 17.0 | 16.0 | 16.3 | 14.6 | 13.9 | 11.6 | 13.4 | 11.5 | 11.4 | 9.5 | 8.9 | 7.5 | 7.6 | 7.7 | ＋0．1 |
| 5．5－6．0（High） | 24.0 | 25．2才 | 22.3 | 23.6 | 20.5 | 21.5 | 20.5 | 21.3 | 22.1 | 19.0 | 16.4 | 15.1 | 15.7 | 15.8 | 13.1 | 13.8 | 11.2 | 11.5 | 10.4 | 9.2 | 9.3 | 7.3 | 7.4 | 6.5 | 8.0 | ＋1．5 |
| Race／Ethnicity（2－year average）：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | － | 26.6 | 27．1才 | 25.3 | 25.4 | 26.6 | 26.7 | 24.8 | 24.7 | 24.7 | 23.2 | 21.5 | 20.1 | 19.2 | 17.9 | 16.9 | 15.6 | 15.2 | 15.4 | 13.9 | 12.3 | 10.7 | 9.5 | 9.0 | 8.9 | －0．1 |
| African American | － | 18.6 | 19．7 $\ddagger$ | 19.4 | 18.7 | 18.1 | 17.9 | 16.1 | 16.1 | 16.0 | 15.0 | 14.8 | 15.5 | 16.2 | 14.9 | 13.1 | 12.3 | 12.9 | 12.3 | 11.8 | 11.6 | 10.0 | 9.7 | 8.8 | 8.2 | －0．6 |
| Hispanic | － | 31.0 | $32.3 \ddagger$ | 33.5 | 32.4 | 29.7 | 29.8 | 29.5 | 29.0 | 26.7 | 25.7 | 26.5 | 25.3 | 23.5 | 20.6 | 21.2 | 23.0 | 21.5 | 19.2 | 18.1 | 18.0 | 17.5 | 14.3 | 11.2 | 10.4 | －0．8 |

Source．The Monitoring the Future study，the University of Michigan．
 apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding．See Table S1 for the number of subgroup cases．See appendix B for definition of variables in table．
 data are based on all forms．In 2004，the question text was changed slightly in half of the forms．An examination of the data did not show any effect from the wording change．The remaining forms were changed in 2005
Parental education is an average score of mother＇s education and father＇s education．See appendix B for details．
To derive percentages for each racial subgroup，data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates．See appendix B for details on how race／ethnicity is defined．

TABLE 85
ALCOHOL：Trends in 30－Day Prevalence of Use by Subgroups in Grade 10

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014－ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1991 | 1992 | $1993^{\text {a }}$ | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | 2001 | $\underline{2002}$ | $\underline{2003}$ | $2004^{\text {a }}$ | 2005 | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | change |
| Approximate weighted $N=$ | 14，800 | 14，800 | 15，300 | 15，800 | 17，000 | 15，600 | 15，500 | 15，000 | 13，600 | 14，300 | 14，000 | 14，300 | 15，800 | 16，400 | 16，200 | 16，200 | 16，100 | 15，100 | 15，900 | 15，200 | 14，900 | 15，000 | 12，900 | 13，000 | 15，600 |  |
| Total | 42.8 | 39．9才 | 38.2 | 39.2 | 38.8 | 40.4 | 40.1 | 38.8 | 40.0 | 41.0 | 39.0 | 35.4 | 35.4 | 35.2 | 33.2 | 33.8 | 33.4 | 28.8 | 30.4 | 28.9 | 27.2 | 27.6 | 25.7 | 23.5 | 21.5 | －2．0 |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 45.5 | 41．6 $\ddagger$ | 40.6 | 43.5 | 39.7 | 42.6 | 42.5 | 40.0 | 42.3 | 43.3 | 41.1 | 35.3 | 35.3 | 36.3 | 32.8 | 33.8 | 33.4 | 28.6 | 31.0 | 30.1 | 28.2 | 28.0 | 26.0 | 23.0 | 20.6 | －2．4 s |
| Female | 40.2 | 38．3才 | 35.6 | 34.8 | 37.8 | 38.3 | 37.9 | 37.7 | 38.1 | 38.6 | 36.8 | 35.7 | 35.3 | 34.0 | 33.6 | 33.8 | 33.3 | 29.0 | 29.8 | 27.7 | 26.0 | 27.1 | 25.3 | 23.9 | 22.5 | －1．4 |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 53.6 | 49．5才 | 48.6 | 52.0 | 52.2 | 53.3 | 51.6 | 52.4 | 53.7 | 53.9 | 52.2 | 47.1 | 46.6 | 47.5 | 44.9 | 44.8 | 47.4 | 44.6 | 45.5 | 45.6 | 41.4 | 40.9 | 37.1 | 37.0 | 32.0 | －5．0 s |
| Complete 4 years | 40.6 | 37．9才 | 36.1 | 36.4 | 36.4 | 38.3 | 38.1 | 36.5 | 37.9 | 39.1 | 36.8 | 33.5 | 33.6 | 33.6 | 31.6 | 32.5 | 31.7 | 26.9 | 28.8 | 26.9 | 25.6 | 26.3 | 24.4 | 22.1 | 20.5 | －1．6 |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 48.0 | 42．3才 | 42.4 | 37.4 | 38.3 | 41.4 | 41.1 | 41.6 | 44.8 | 42.0 | 37.8 | 36.3 | 38.7 | 40.4 | 37.0 | 35.7 | 36.2 | 31.4 | 30.5 | 29.5 | 31.5 | 33.3 | 28.4 | 27.0 | 24.0 | －3．0 |
| Midwest | 43.5 | 40．3才 | 37.4 | 39.6 | 38.9 | 39.1 | 38.6 | 37.6 | 40.9 | 42.5 | 41.0 | 35.7 | 34.4 | 30.9 | 31.9 | 33.7 | 34.4 | 29.5 | 28.9 | 27.4 | 23.2 | 24.5 | 22.4 | 20.4 | 19.1 | －1．3 |
| South | 41.7 | 38．2 $\ddagger$ | 38.0 | 40.5 | 39.4 | 41.7 | 40.8 | 39.9 | 38.8 | 39.1 | 38.3 | 33.7 | 34.8 | 36.4 | 33.4 | 32.8 | 31.2 | 29.0 | 32.2 | 29.9 | 27.7 | 28.3 | 27.4 | 24.3 | 22.9 | －1．4 |
| West | 39.6 | 39．8 $\ddagger$ | 35.6 | 38.2 | 38.0 | 38.9 | 39.9 | 35.5 | 36.1 | 41.1 | 38.2 | 37.2 | 34.1 | 33.7 | 30.7 | 33.9 | 32.9 | 25.9 | 29.0 | 28.7 | 27.5 | 24.9 | 24.6 | 22.6 | 19.4 | －3．2 |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 43.6 | 40．4 $\ddagger$ | 39.0 | 36.3 | 34.6 | 37.9 | 37.8 | 34.2 | 39.7 | 42.4 | 37.6 | 32.0 | 33.1 | 32.0 | 31.1 | 32.5 | 31.8 | 27.4 | 30.3 | 29.3 | 26.5 | 27.4 | 24.8 | 23.3 | 21.2 | －2．1 |
| Other MSA | 41.4 | 38．6 $\ddagger$ | 36.2 | 40.1 | 39.9 | 41.0 | 40.2 | 39.0 | 39.7 | 39.3 | 38.3 | 35.2 | 35.6 | 37.0 | 34.4 | 34.5 | 33.3 | 28.7 | 29.7 | 28.4 | 27.7 | 26.9 | 26.5 | 24.0 | 21.4 | －2．6 |
| Non－MSA | 44.8 | 41．9才 | 41.3 | 40.6 | 41.3 | 42.1 | 42.6 | 43.7 | 41.0 | 42.4 | 41.8 | 40.4 | 38.3 | 35.8 | 33.5 | 34.4 | 36.2 | 31.1 | 31.9 | 29.4 | 27.1 | 29.1 | 24.9 | 22.6 | 22.4 | －0．3 |
| Parental Education：${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 42.1 | 40．4 $\ddagger$ | 37.5 | 38.6 | 43.5 | 43.2 | 39.2 | 39.9 | 40.6 | 41.1 | 38.6 | 38.2 | 38.4 | 38.6 | 36.5 | 33.1 | 36.5 | 35.5 | 37.4 | 34.2 | 30.3 | 32.2 | 29.4 | 26.3 | 23.2 | －3．2 |
| 2．5－3．0 | 43.9 | 40．9才 | 40.6 | 41.5 | 42.3 | 42.6 | 41.1 | 41.2 | 42.3 | 42.8 | 41.4 | 38.0 | 37.4 | 38.5 | 36.0 | 38.0 | 37.0 | 30.9 | 32.9 | 33.1 | 30.2 | 28.6 | 30.3 | 25.0 | 22.8 | －2．2 |
| 3．5－4．0 | 44.2 | 40．0才 | 38.0 | 40.6 | 38.8 | 42.2 | 41.6 | 40.1 | 40.2 | 42.8 | 41.0 | 36.4 | 36.6 | 37.5 | 33.5 | 35.6 | 35.6 | 30.4 | 31.3 | 30.3 | 29.4 | 28.6 | 26.8 | 26.2 | 23.6 | －2．6 |
| 4．5－5．0 | 40.7 | 39．4才 | 36.2 | 37.7 | 37.9 | 37.8 | 39.3 | 36.9 | 38.7 | 40.2 | 37.0 | 33.7 | 32.7 | 32.6 | 31.8 | 32.0 | 31.5 | 25.9 | 28.2 | 26.3 | 24.3 | 27.6 | 22.6 | 21.3 | 19.9 | －1．4 |
| 5．5－6．0（High） | 44.9 | 41．7才 | 39.3 | 35.4 | 34.3 | 39.6 | 38.9 | 37.0 | 40.9 | 39.0 | 37.1 | 32.0 | 34.1 | 32.4 | 31.8 | 31.7 | 28.8 | 26.2 | 27.4 | 24.5 | 24.0 | 26.2 | 23.4 | 22.1 | 21.6 | －0．5 |
| Race／Ethnicity（2－year average）：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | － | 44.1 | 43．1才 | 40.4 | 41.0 | 42.2 | 43.0 | 42.7 | 43.0 | 43.9 | 42.7 | 40.0 | 38.7 | 37.8 | 37.0 | 36.3 | 35.9 | 33.3 | 31.5 | 30.8 | 29.1 | 29.1 | 28.2 | 26.4 | 24.6 | $-1.8 \mathrm{~s}$ |
| African American | － | 30.2 | 29．3 $\ddagger$ | 29.7 | 28.0 | 23.9 | 24.6 | 25.1 | 24.4 | 24.7 | 25.3 | 24.3 | 23.7 | 24.6 | 23.0 | 21.5 | 21.7 | 20.6 | 20.2 | 20.7 | 20.8 | 20.2 | 19.0 | 16.6 | 15.1 | －1．4 |
| Hispanic | － | 41.0 | 39．9才 | 37.7 | 40.5 | 44.0 | 42.8 | 39.4 | 39.6 | 40.5 | 40.2 | 37.9 | 37.1 | 39.5 | 38.2 | 36.1 | 34.8 | 33.7 | 34.1 | 34.9 | 31.8 | 28.4 | 28.8 | 27.1 | 24.0 | －3．1 ss |

Source．The Monitoring the Future study，the University of Michigan．
 apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding．See Table S2 for the number of subgroup cases．See appendix B for definition of variables in table．
 data are based on all forms．In 2004，the question text was changed slightly in half of the forms．An examination of the data did not show any effect from the wording change．The remaining forms were changed in 2005.

${ }^{c}$ To derive percentages for each racial subgroup，data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates．See appendix B for details on how race／ethnicity is defined．

TABLE 86
ALCOHOL：Trends in 30－Day Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{1975}$ | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | $\underline{1993}^{\text {a }}$ | 1994 | （Years cont．） |
| Approximate weighted $N=$ | 9，400 | 15，400 | 17，100 | 17，800 | 15，500 | 15，900 | 17，500 | 17，700 | 16，300 | 15，900 | 16，000 | 15，200 | 16，300 | 16，300 | 16，700 | 15，200 | 15，000 | 15，800 | 16，300 | 15，400 |  |
| Total | 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 | $51.3 \ddagger$ | 48.6 | 50.1 |  |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 75.0 | 74.5 | 77.8 | 77.5 | 76.7 | 77.4 | 75.7 | 74.1 | 74.4 | 71.4 | 69.8 | 69.0 | 69.9 | 68.0 | 65.1 | 61.3 | 58.4 | $55.8 \ddagger$ | 54.2 | 55.5 |  |
| Female | 62.2 | 61.8 | 65.0 | 67.1 | 67.0 | 66.8 | 65.7 | 65.4 | 64.3 | 62.8 | 62.1 | 61.9 | 63.1 | 59.9 | 54.9 | 52.3 | 49.0 | $46.8 \ddagger$ | 43.4 | 45.2 |  |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | － | 69.9 | 72.8 | 72.7 | 72.2 | 73.5 | 72.1 | 71.6 | 70.5 | 69.0 | 67.9 | 66.6 | 68.6 | 65.0 | 61.6 | 58.7 | 57.1 | 54．9才 | 52.4 | 53.6 |  |
| Complete 4 years | － | 66.5 | 69.4 | 71.6 | 71.4 | 70.8 | 70.0 | 68.6 | 68.1 | 65.7 | 64.6 | 64.8 | 65.7 | 63.6 | 59.1 | 56.4 | 52.7 | $50.0 \ddagger$ | 47.4 | 48.9 |  |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 76.9 | 75.7 | 76.6 | 78.0 | 81.1 | 79.4 | 80.4 | 76.7 | 74.4 | 73.6 | 72.3 | 67.6 | 69.1 | 66.7 | 61.7 | 65.3 | 59.6 | $51.5 \ddagger$ | 56.1 | 53.1 |  |
| Midwest | 71.1 | 73.2 | 76.4 | 77.2 | 73.9 | 75.1 | 73.6 | 75.0 | 74.4 | 70.6 | 66.8 | 71.3 | 70.7 | 67.9 | 65.9 | 61.5 | 59.7 | 58．0才 | 51.6 | 53.8 |  |
| South | 62.8 | 60.2 | 64.7 | 67.0 | 65.7 | 65.5 | 62.9 | 61.3 | 64.3 | 62.1 | 60.0 | 58.2 | 60.7 | 58.6 | 55.1 | 51.0 | 49.1 | 48．1才 | 47.7 | 49.2 |  |
| West | 60.0 | 62.2 | 64.4 | 63.1 | 65.5 | 67.6 | 65.3 | 63.8 | 62.9 | 63.6 | 66.2 | 64.5 | 66.7 | 65.0 | 59.3 | 51.6 | 49.7 | 46．7才 | 39.8 | 44.2 |  |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 75.3 | 72.6 | 74.0 | 75.5 | 77.3 | 78.0 | 75.5 | 72.9 | 69.2 | 66.6 | 67.4 | 66.2 | 66.3 | 63.8 | 56.9 | 59.2 | 52.9 | 49．0才 | 50.6 | 49.5 |  |
| Other MSA | 68.5 | 67.0 | 72.0 | 72.7 | 72.0 | 70.8 | 69.1 | 69.3 | 69.8 | 66.2 | 65.1 | 64.8 | 66.9 | 64.1 | 60.7 | 57.4 | 55.7 | $50.8 \ddagger$ | 47.1 | 49.2 |  |
| Non－MSA | 63.2 | 66.5 | 67.8 | 68.4 | 67.3 | 69.0 | 68.9 | 67.6 | 69.0 | 69.0 | 65.9 | 65.2 | 65.5 | 63.8 | 61.7 | 54.4 | 52.0 | 54．1才 | 49.8 | 52.5 |  |
| Parental Education：${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 58.7 | 62.5 | 62.0 | 62.7 | 64.6 | 65.9 | 62.1 | 61.3 | 61.2 | 58.1 | 58.7 | 56.1 | 56.3 | 54.5 | 47.8 | 47.2 | 49.9 | 45．6才 | 36.6 | 43.5 |  |
| 2．5－3．0 | 70.0 | 71.4 | 72.5 | 71.9 | 71.1 | 72.0 | 70.7 | 69.4 | 69.2 | 67.4 | 65.9 | 65.3 | 67.0 | 64.6 | 59.7 | 57.2 | 53.3 | 52．3才 | 49.0 | 49.9 |  |
| 3．5－4．0 | 69.2 | 67.9 | 73.5 | 75.0 | 74.6 | 73.3 | 71.5 | 72.7 | 70.4 | 69.6 | 66.9 | 66.7 | 67.2 | 64.3 | 62.9 | 57.7 | 54.3 | 51．2才 | 51.2 | 50.1 |  |
| 4．5－5．0 | 69.6 | 71.3 | 74.5 | 77.0 | 76.0 | 74.4 | 73.1 | 74.5 | 73.1 | 69.3 | 68.9 | 68.0 | 68.8 | 66.0 | 62.1 | 60.8 | 54.8 | $51.0 \ddagger$ | 49.8 | 52.6 |  |
| 5．5－6．0（High） | 67.3 | 72.5 | 77.1 | 79.2 | 75.9 | 77.2 | 77.4 | 74.1 | 75.0 | 70.3 | 67.9 | 69.9 | 70.5 | 67.3 | 62.2 | 60.8 | 58.0 | 55．7才 | 53.2 | 52.2 |  |
| Race／Ethnicity（2－year average）：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | － | － | 72.8 | 75.0 | 75.3 | 75.4 | 75.4 | 74.6 | 73.9 | 72.8 | 71.2 | 70.2 | 71.0 | 70.6 | 67.3 | 63.8 | 60.0 | 56.8 | 55．6ł | 54.0 |  |
| African American | － | － | 49.5 | 48.7 | 47.2 | 47.6 | 46.7 | 46.0 | 47.7 | 45.5 | 42.8 | 42.1 | 39.4 | 39.8 | 39.5 | 35.8 | 33.7 | 31.7 | $32.4 \ddagger$ | 33.8 |  |
| Hispanic | － | － | 63.0 | 64.5 | 63.8 | 63.6 | 62.0 | 60.3 | 59.1 | 59.7 | 58.1 | 56.3 | 57.2 | 57.8 | 52.9 | 49.1 | 51.5 | 53.8 | 50．5 $\ddagger$ | 45.9 |  |

[^14]
# TABLE 86 (cont.) 

## ALCOHOL: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | 2001 | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}{ }^{\text {c }}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 51.3 | 50.8 | 52.7 | 52.0 | 51.0 | 50.0 | 49.8 | 48.6 | 47.5 | 48.0 | 47.0 | 45.3 | 44.4 | 43.1 | 43.5 | 41.2 | 40.0 | 41.5 | 39.2 | 37.4 | 35.3 | -2.1 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 55.7 | 54.8 | 56.2 | 57.3 | 55.3 | 54.0 | 54.7 | 52.3 | 51.7 | 51.1 | 50.7 | 47.3 | 47.1 | 45.8 | 47.8 | 44.2 | 42.1 | 43.8 | 41.8 | 37.4 | 36.0 | -1.4 |
| Female | 47.0 | 46.9 | 48.9 | 46.9 | 46.8 | 46.1 | 45.1 | 45.1 | 43.8 | 45.1 | 43.3 | 43.0 | 41.4 | 40.9 | 38.9 | 37.9 | 37.5 | 38.8 | 36.3 | 37.1 | 35.0 | $-2.1$ |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 55.9 | 54.8 | 56.1 | 56.0 | 55.2 | 54.3 | 55.5 | 53.0 | 55.4 | 52.1 | 52.8 | 54.0 | 48.6 | 49.7 | 51.0 | 47.9 | 45.2 | 44.2 | 45.3 | 40.2 | 37.9 | -2.3 |
| Complete 4 years | 49.6 | 49.3 | 51.4 | 50.9 | 49.8 | 48.3 | 47.9 | 47.4 | 45.2 | 47.0 | 45.5 | 43.2 | 43.3 | 41.7 | 41.6 | 39.3 | 38.8 | 40.7 | 37.9 | 36.6 | 35.0 | -1.6 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 55.0 | 56.5 | 56.7 | 56.2 | 57.2 | 58.0 | 54.3 | 50.9 | 51.6 | 53.9 | 54.5 | 52.4 | 51.8 | 49.1 | 48.4 | 49.2 | 46.3 | 48.1 | 45.7 | 41.6 | 42.7 | +1.2 |
| Midwest | 55.3 | 51.5 | 51.5 | 51.9 | 51.1 | 52.3 | 54.5 | 52.1 | 50.8 | 49.5 | 48.0 | 46.3 | 47.9 | 42.8 | 45.0 | 40.8 | 41.2 | 41.8 | 39.0 | 40.2 | 33.6 | -6.6 |
| South | 50.6 | 51.1 | 51.1 | 51.4 | 49.5 | 44.9 | 45.9 | 46.8 | 43.0 | 43.5 | 43.9 | 43.2 | 43.1 | 42.9 | 42.0 | 39.6 | 37.5 | 36.6 | 35.4 | 34.6 | 33.1 | -1.5 |
| West | 43.2 | 42.1 | 52.7 | 49.2 | 47.8 | 48.3 | 44.9 | 45.0 | 47.0 | 47.3 | 43.6 | 41.3 | 36.6 | 39.2 | 39.2 | 37.4 | 38.0 | 43.1 | 39.8 | 36.1 | 35.4 | -0.8 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 50.6 | 51.6 | 51.1 | 49.1 | 48.9 | 51.2 | 49.7 | 50.3 | 43.0 | 44.1 | 46.6 | 47.6 | 47.1 | 46.1 | 46.7 | 42.4 | 41.1 | 44.1 | 39.2 | 37.7 | 38.5 | +0.8 |
| Other MSA | 50.6 | 50.1 | 53.4 | 53.9 | 52.8 | 48.8 | 49.6 | 48.8 | 49.6 | 51.7 | 47.6 | 43.9 | 42.1 | 40.4 | 41.5 | 41.6 | 41.1 | 41.8 | 40.8 | 38.7 | 33.4 | -5.3 ss |
| Non-MSA | 53.4 | 51.4 | 52.9 | 51.6 | 50.1 | 50.8 | 50.0 | 45.9 | 49.6 | 45.5 | 46.1 | 44.7 | 45.2 | 45.8 | 43.7 | 38.5 | 35.8 | 36.9 | 35.3 | 33.7 | 35.0 | +1.2 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 45.9 | 41.2 | 43.8 | 43.8 | 46.8 | 43.4 | 42.9 | 42.2 | 43.6 | 42.1 | 38.2 | 44.4 | 38.3 | 41.4 | 39.8 | 36.4 | 36.7 | 41.4 | 36.1 | 32.5 | 32.5 | 0.0 |
| 2.5-3.0 | 52.0 | 48.2 | 51.0 | 50.1 | 50.5 | 50.0 | 49.0 | 47.9 | 47.8 | 46.8 | 47.8 | 46.7 | 46.0 | 42.4 | 43.4 | 42.4 | 38.8 | 41.4 | 40.3 | 38.2 | 35.3 | -2.9 |
| 3.5-4.0 | 50.6 | 51.4 | 52.1 | 55.6 | 51.1 | 51.3 | 51.4 | 50.9 | 47.9 | 52.4 | 47.8 | 46.3 | 43.6 | 43.2 | 46.9 | 41.6 | 41.2 | 42.7 | 41.1 | 37.9 | 36.5 | -1.4 |
| 4.5-5.0 | 51.8 | 53.6 | 55.3 | 52.4 | 50.2 | 48.1 | 51.5 | 48.9 | 47.5 | 47.7 | 50.2 | 42.9 | 45.0 | 43.9 | 42.0 | 42.1 | 40.1 | 41.7 | 39.5 | 38.7 | 36.1 | -2.6 |
| 5.5-6.0 (High) | 55.1 | 54.2 | 57.4 | 54.7 | 56.0 | 54.0 | 49.5 | 51.1 | 49.3 | 47.4 | 46.0 | 48.2 | 47.6 | 45.9 | 43.3 | 38.4 | 41.9 | 41.1 | 38.7 | 40.6 | 36.3 | -4.3 |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 54.5 | 54.8 | 56.4 | 57.7 | 56.3 | 55.1 | 55.3 | 54.0 | 52.3 | 52.2 | 52.3 | 50.7 | 49.3 | 48.6 | 47.2 | 45.4 | 43.8 | 43.8 | 43.6 | 42.5 | 40.9 | -1.6 |
| African American | 35.2 | 36.5 | 34.3 | 33.3 | 32.2 | 30.0 | 29.4 | 30.1 | 29.9 | 29.2 | 29.0 | 29.2 | 28.7 | 28.6 | 30.5 | 31.4 | 30.1 | 29.6 | 28.4 | 25.9 | 24.0 | -1.9 |
| Hispanic | 48.7 | 47.5 | 48.2 | 49.8 | 50.2 | 51.2 | 48.9 | 47.5 | 46.4 | 45.4 | 43.3 | 43.4 | 41.4 | 38.9 | 40.1 | 40.1 | 39.7 | 39.8 | 39.0 | 37.0 | 36.3 | -0.7 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' $\ddagger$ ' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: $s=.05$, ss $=.01$, sss $=.001$.

-     - 'indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.
${ }^{\text {a }}$ 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 1993 data are based on the changed forms only; $N$ is three sixths of $N$ indicated. In 1994 the question text was changed in the remaining forms. Beginning in 1994, the data are based on all six forms. In 2004 the question text was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change. The remaining forms were changed in 2005.
${ }^{\text {b }}$ Parental education is an average score of mother's education and father's education. See appendix $B$ for details.
${ }^{\text {c }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.


## TABLE 87

ALCOHOL：Trends in 30－Day Prevalence of Daily Use by Subgroups in Grade 8

|  | Percentage who used daily in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2013－ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1991 | 1992 | $1993{ }^{\text {a }}$ | 1994 | 1995 | 1996 | 1997 | 1998 | $\underline{1999}$ | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $2004{ }^{\text {a }}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | change |
| Approximate weighted $N=$ | 17，500 | 18，600 | 18，300 | 17，300 | 17，500 | 17，800 | 18，600 | 18，100 | 16，700 | 16，700 | 16，200 | 15，100 | 16，500 | 17，000 | 16，800 | 16，500 | 16，100 | 15，700 | 15，000 | 15，300 | 16，000 | 15，100 | 14，600 | 14，600 | 14，400 |  |
| Total | 0.6 | 0．6才 | 1.0 | 1.0 | 0.7 | 1.0 | 0.8 | 0.9 | 1.0 | 0.8 | 0.9 | 0.7 | 0.8 | 0.6 | 0.5 | 0.5 | 0.6 | 0.7 | 0.5 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | －0．1 |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 0.7 | $0.8 \ddagger$ | 1.5 | 1.2 | 1.0 | 1.4 | 0.9 | 1.2 | 1.3 | 1.0 | 1.2 | 0.8 | 0.8 | 0.6 | 0.6 | 0.5 | 0.8 | 1.0 | 0.6 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | －0．1 |
| Female | 0.4 | 0．4\＃ | 0.5 | 0.7 | 0.5 | 0.6 | 0.6 | 0.5 | 0.6 | 0.5 | 0.6 | 0.4 | 0.7 | 0.6 | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.5 | 0.3 | 0.2 | 0.2 | 0.3 | 0.1 | －0．1 |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 1.6 | $2.2 \ddagger$ | 2.7 | 2.8 | 1.9 | 3.0 | 2.0 | 3.1 | 3.4 | 1.8 | 2.8 | 2.8 | 2.3 | 2.2 | 1.9 | 1.5 | 2.4 | 2.7 | 1.8 | 2.2 | 1.6 | 1.9 | 1.5 | 1.3 | 1.0 | －0．3 |
| Complete 4 years | 0.4 | $0.4 \ddagger$ | 0.7 | 0.7 | 0.6 | 0.7 | 0.6 | 0.6 | 0.7 | 0.6 | 0.6 | 0.5 | 0.6 | 0.5 | 0.3 | 0.3 | 0.4 | 0.6 | 0.4 | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | －0．1 |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 0.4 | $0.5 \ddagger$ | 0.7 | 1.0 | 0.6 | 1.0 | 0.8 | 1.0 | 1.0 | 0.6 | 0.8 | 0.7 | 0.6 | 0.3 | 0.3 | 0.3 | 0.4 | 0.6 | 0.1 | 0.4 | 0.1 | 0.3 | 0.0 | 0.2 | 0.1 | －0．1 |
| Midwest | 0.6 | 0．6才 | 0.9 | 0.7 | 0.7 | 1.1 | 0.8 | 1.0 | 1.3 | 1.2 | 0.7 | 0.7 | 0.9 | 0.6 | 0.6 | 0.5 | 0.6 | 0.8 | 0.3 | 0.4 | 0.3 | 0.2 | 0.1 | 0.2 | 0.2 | 0.0 |
| South | 0.6 | $0.8 \ddagger$ | 1.3 | 1.4 | 0.7 | 1.1 | 0.8 | 1.0 | 1.0 | 0.7 | 1.2 | 0.8 | 0.8 | 0.8 | 0.5 | 0.6 | 0.7 | 0.9 | 0.7 | 0.7 | 0.4 | 0.4 | 0.5 | 0.4 | 0.3 | －0．1 |
| West | 0.5 | 0．5才 | 0.9 | 0.7 | 0.8 | 0.8 | 0.7 | 0.5 | 0.9 | 0.6 | 0.6 | 0.4 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.4 | 0.6 | 0.5 | 0.7 | 0.4 | 0.2 | 0.4 | 0.1 | －0．2 |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 0.4 | 0．6\＃ | 1.1 | 0.6 | 0.6 | 0.9 | 0.4 | 0.7 | 1.0 | 0.4 | 0.5 | 0.4 | 0.7 | 0.5 | 0.5 | 0.4 | 0.4 | 0.7 | 0.3 | 0.5 | 0.3 | 0.4 | 0.2 | 0.2 | 0.2 | －0．1 |
| Other MSA | 0.5 | 0．6才 | 0.6 | 1.0 | 0.6 | 1.0 | 0.9 | 0.8 | 0.8 | 0.7 | 0.9 | 0.8 | 0.7 | 0.5 | 0.4 | 0.5 | 0.6 | 0.8 | 0.4 | 0.5 | 0.4 | 0.4 | 0.2 | 0.3 | 0.2 | －0．1 |
| Non－MSA | 0.8 | 0．7才 | 1.6 | 1.4 | 1.1 | 1.3 | 0.9 | 1.1 | 1.5 | 1.4 | 1.3 | 0.8 | 1.0 | 0.9 | 0.6 | 0.6 | 0.8 | 0.7 | 0.8 | 0.6 | 0.5 | 0.2 | 0.5 | 0.5 | 0.2 | －0．3 |
| Parental Education：${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | 1.6 | $1.4 \ddagger$ | 1.5 | 1.5 | 1.4 | 1.3 | 1.6 | 1.8 | 1.9 | 0.8 | 1.7 | 1.1 | 2.5 | 1.5 | 0.9 | 0.7 | 1.3 | 1.8 | 2.1 | 1.3 | 0.5 | 0.3 | 0.2 | 0.8 | 0.2 | －0．5 |
| 2．5－3．0 | 0.8 | $0.6 \ddagger$ | 0.6 | 0.9 | 0.8 | 1.3 | 0.5 | 0.8 | 0.9 | 1.1 | 1.2 | 0.8 | 1.1 | 0.6 | 0.5 | 0.6 | 0.5 | 0.9 | 0.5 | 0.5 | 0.7 | 0.5 | 0.2 | 0.2 | 0.3 | ＋0．1 |
| 3．5－4．0 | 0.3 | $0.5 \ddagger$ | 0.8 | 1.0 | 1.0 | 1.2 | 0.8 | 0.6 | 1.2 | 0.6 | 0.5 | 0.7 | 0.6 | 0.6 | 0.5 | 0.6 | 0.7 | 0.7 | 0.4 | 0.6 | 0.4 | 0.4 | 0.6 | 0.3 | 0.2 | －0．1 |
| 4．5－5．0 | 0.3 | $0.5 \ddagger$ | 0.5 | 0.9 | 0.4 | 0.5 | 0.7 | 0.7 | 0.4 | 0.6 | 0.6 | 0.5 | 0.3 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 0.3 | 0.1 | 0.1 | 0.1 | 0.4 | 0.1 | －0．3 |
| 5．5－6．0（High） | 0.4 | $0.6 \ddagger$ | 1.8 | 0.9 | 0.6 | 1.0 | 0.5 | 1.0 | 1.1 | 0.6 | 0.7 | 0.4 | 0.5 | 0.4 | 0.1 | 0.3 | 0.4 | 0.6 | 0.4 | 0.3 | 0.4 | 0.2 | 0.2 | 0.2 | 0.1 | －0．1 |
| Race／Ethnicity（2－year average）：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | － | 0.5 | $0.6 \ddagger$ | 0.7 | 0.8 | 0.8 | 0.9 | 0.7 | 0.8 | 0.8 | 0.8 | 0.7 | 0.6 | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 | 0.5 | 0.4 | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 0.0 |
| African American | － | 0.5 | $1.0 \ddagger$ | 1.2 | 0.9 | 0.8 | 0.6 | 0.6 | 0.9 | 0.5 | 0.4 | 0.5 | 0.5 | 0.6 | 0.6 | 0.5 | 0.5 | 0.6 | 0.4 | 0.3 | 0.4 | 0.3 | 0.2 | 0.2 | 0.1 | 0.0 |
| Hispanic | － | 1.1 | $1.2 \ddagger$ | 1.6 | 1.5 | 1.4 | 1.4 | 1.3 | 1.3 | 1.1 | 1.2 | 1.3 | 1.4 | 1.4 | 0.8 | 0.6 | 0.8 | 1.0 | 1.0 | 0.9 | 0.8 | 0.7 | 0.4 | 0.3 | 0.3 | 0.0 |

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

Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding．See Table S1 for the number of subgroup cases．See appendix B for definition of variables in table．

the data are based on all forms．In 2004，the question text was changed slightly in half of the forms．An examination of the data did not show any effect from the wording change．The remaining forms were changed in 2005 ．
${ }^{\text {b }}$ Parental education is an average score of mother＇s education and father＇s education．See appendix B for details．
To derive percentages for each racial subgroup，data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates．See appendix B for details on how race／ethnicity is defined．

## TABLE 88

ALCOHOL: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 10

|  | Percentage who used daily in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014- |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1991 | 1992 | $1993{ }^{\text {a }}$ | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | 2001 | 2002 | 2003 | $2004^{\text {a }}$ | $\underline{2005}$ | $\underline{2006}$ | 2007 | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | change |
| Approximate weighted $N=$ | 14,800 | 14,800 | 15,300 | 15,800 | 17,000 | 15,600 | 15,500 | 15,000 | 13,600 | 14,300 | 14,000 | 14,300 | 15,800 | 16,400 | 16,200 | 16,200 | 16,100 | 15,100 | 15,900 | 15,200 | 14,900 | 15,000 | 12,900 | 13,000 | 15,600 |  |
| Total | 1.4 | $1.3 \ddagger$ | 1.8 | 1.7 | 1.7 | 1.6 | 1.7 | 1.9 | 1.9 | 1.8 | 1.9 | 1.8 | 1.5 | 1.3 | 1.3 | 1.4 | 1.4 | 1.0 | 1.1 | 1.1 | 0.8 | 1.0 | 0.9 | 0.8 | 0.5 | -0.3 ss |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 2.3 | $1.6 \ddagger$ | 2.6 | 2.5 | 2.6 | 2.4 | 2.5 | 2.8 | 2.9 | 2.7 | 2.9 | 2.6 | 2.0 | 1.9 | 1.9 | 1.8 | 1.9 | 1.4 | 1.5 | 1.7 | 1.1 | 1.4 | 1.3 | 1.1 | 0.7 | -0.4 s |
| Female | 0.4 | 0.8 $\ddagger$ | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 1.2 | 0.9 | 0.8 | 0.9 | 1.0 | 1.0 | 0.7 | 0.7 | 1.0 | 0.9 | 0.6 | 0.7 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.3 | -0.3 s |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 2.0 | $3.2 \ddagger$ | 3.6 | 3.6 | 4.0 | 3.2 | 4.0 | 4.3 | 4.5 | 4.0 | 4.6 | 3.7 | 3.0 | 3.7 | 3.9 | 3.2 | 3.3 | 2.1 | 3.5 | 3.3 | 2.2 | 3.0 | 1.9 | 2.7 | 1.3 | -1.4 s |
| Complete 4 years | 1.2 | $0.8 \ddagger$ | 1.5 | 1.2 | 1.3 | 1.3 | 1.3 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | 1.2 | 1.0 | 1.0 | 1.2 | 1.2 | 0.9 | 0.9 | 0.9 | 0.6 | 0.7 | 0.8 | 0.6 | 0.4 | -0.2 s |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 1.3 | $0.9 \ddagger$ | 1.8 | 0.9 | 1.5 | 1.0 | 1.5 | 2.3 | 1.9 | 1.3 | 1.6 | 1.4 | 1.5 | 0.9 | 1.4 | 1.6 | 1.5 | 1.1 | 0.8 | 0.7 | 0.8 | 1.2 | 0.9 | 0.5 | 0.3 | -0.2 |
| Midwest | 1.4 | $1.5 \ddagger$ | 1.8 | 1.7 | 1.8 | 1.6 | 1.6 | 2.1 | 2.3 | 1.9 | 1.6 | 1.7 | 1.2 | 1.0 | 1.1 | 1.3 | 1.6 | 0.9 | 1.1 | 1.2 | 0.5 | 0.8 | 0.6 | 0.6 | 0.3 | -0.3 |
| South | 1.6 | $1.2 \ddagger$ | 1.8 | 2.3 | 1.8 | 1.8 | 1.9 | 1.9 | 1.6 | 2.0 | 1.9 | 1.8 | 1.5 | 1.6 | 1.4 | 1.6 | 1.2 | 1.1 | 1.3 | 1.1 | 0.9 | 1.2 | 1.3 | 1.2 | 0.7 | -0.5 s |
| West | 1.0 | $1.4 \ddagger$ | 1.7 | 1.6 | 1.8 | 1.9 | 1.8 | 1.5 | 1.9 | 1.7 | 2.4 | 2.0 | 1.8 | 1.6 | 1.4 | 1.2 | 1.6 | 0.9 | 1.2 | 1.5 | 0.8 | 0.8 | 0.8 | 0.7 | 0.5 | -0.3 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 1.3 | $1.2 \ddagger$ | 1.1 | 1.3 | 1.3 | 1.5 | 1.2 | 1.5 | 2.0 | 1.6 | 1.8 | 1.4 | 1.4 | 0.7 | 0.9 | 1.3 | 1.3 | 0.9 | 1.0 | 1.2 | 0.8 | 0.8 | 1.0 | 0.6 | 0.4 | -0.2 |
| Other MSA | 1.2 | $1.0 \ddagger$ | 1.4 | 1.7 | 1.8 | 1.5 | 1.6 | 1.7 | 1.7 | 1.6 | 1.6 | 1.8 | 1.4 | 1.5 | 1.4 | 1.4 | 1.5 | 1.0 | 1.1 | 1.0 | 0.7 | 0.8 | 0.8 | 0.7 | 0.5 | -0.2 |
| Non-MSA | 1.6 | $1.9 \ddagger$ | 3.2 | 2.1 | 2.2 | 1.9 | 2.5 | 2.9 | 2.2 | 2.3 | 2.5 | 2.1 | 2.0 | 1.5 | 1.7 | 1.8 | 1.6 | 1.2 | 1.3 | 1.3 | 0.9 | 1.5 | 0.9 | 1.4 | 0.6 | -0.9 s |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 2.6 | $2.0 \ddagger$ | 3.1 | 1.9 | 2.9 | 1.6 | 2.1 | 2.7 | 2.4 | 2.2 | 2.9 | 2.0 | 2.3 | 1.6 | 1.7 | 2.9 | 3.6 | 2.1 | 1.6 | 2.3 | 0.8 | 1.5 | 1.1 | 1.8 | 0.7 | -1.1 s |
| 2.5-3.0 | 1.5 | 1.17 | 2.1 | 1.9 | 2.1 | 1.6 | 2.1 | 2.4 | 2.1 | 2.3 | 1.9 | 2.1 | 1.6 | 1.6 | 2.0 | 1.9 | 1.6 | 1.0 | 1.4 | 1.6 | 0.9 | 1.2 | 1.5 | 0.9 | 0.9 | 0.0 |
| 3.5-4.0 | 1.1 | $1.3 \ddagger$ | 1.7 | 1.7 | 1.7 | 1.6 | 1.9 | 2.0 | 1.9 | 1.9 | 1.5 | 1.5 | 1.4 | 1.1 | 1.2 | 1.5 | 1.2 | 1.0 | 1.3 | 0.6 | 0.8 | 0.7 | 0.9 | 0.9 | 0.4 | $-0.5 \mathrm{~s}$ |
| 4.5-5.0 | 1.1 | 0.8 $\ddagger$ | 1.0 | 1.3 | 1.3 | 1.5 | 1.2 | 1.2 | 1.5 | 1.4 | 1.7 | 1.6 | 1.6 | 1.1 | 0.7 | 0.9 | 1.1 | 0.4 | 0.6 | 1.0 | 0.8 | 0.8 | 0.7 | 0.4 | 0.4 | 0.0 |
| 5.5-6.0 (High) | 1.2 | $1.5 \ddagger$ | 2.0 | 1.2 | 0.9 | 1.4 | 0.8 | 1.9 | 2.0 | 1.2 | 1.7 | 1.8 | 0.9 | 1.2 | 0.9 | 0.7 | 1.0 | 0.9 | 0.6 | 0.7 | 0.5 | 1.1 | 0.4 | 0.7 | 0.3 | -0.4 |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 1.3 | $1.4 \ddagger$ | 1.6 | 1.7 | 1.7 | 1.6 | 1.8 | 1.9 | 1.8 | 1.7 | 1.8 | 1.7 | 1.5 | 1.4 | 1.4 | 1.4 | 1.2 | 1.0 | 1.0 | 0.9 | 0.9 | 1.0 | 0.9 | 0.6 | -0.3 ss |
| African American | - | 0.9 | $1.2 \ddagger$ | 1.2 | 1.1 | 0.6 | 0.7 | 1.0 | 1.0 | 1.1 | 1.4 | 1.2 | 0.9 | 0.5 | 0.5 | 0.8 | 0.8 | 0.7 | 0.9 | 0.8 | 0.5 | 0.5 | 0.4 | 0.3 | 0.4 | +0.1 |
| Hispanic | - | 1.6 | $1.9 \ddagger$ | 1.8 | 2.3 | 2.3 | 2.0 | 2.4 | 2.4 | 2.0 | 2.6 | 2.4 | 1.8 | 1.7 | 1.6 | 2.0 | 2.1 | 2.0 | 1.9 | 1.9 | 1.6 | 1.1 | 1.0 | 1.0 | 0.9 | -0.2 |


Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

the data are based on all forms. In 2004, the question text was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change.
The remaining forms were changed in 2005.
${ }^{\mathrm{b}}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\text {c }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

# TABLE 89 

## ALCOHOL：Trends in 30－Day Prevalence of Daily Use by Subgroups in Grade 12

|  | Percentage who used daily in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{1975}$ | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | $1993{ }^{\text {a }}$ | 1994 | （Years cont．） |
| Approximate weighted $N=$ | 9，400 | 15，400 | 17，100 | 17，800 | 15，500 | 15，900 | 17，500 | 17，700 | 16，300 | 15，900 | 16，000 | 15，200 | 16，300 | 16，300 | 16，700 | 15，200 | 15，000 | 15，800 | 16，300 | 15，400 |  |
| Total |  | 5.6 | 6.1 | 5.7 | 6.9 | 6.0 | 6.0 | 5.8 | 5.5 | 4.8 | 5.0 | 4.7 | 4.8 | 4.2 | 4.2 | 3.7 | 3.6 | $3.4 \pm$ | 3.4 | 2.9 |  |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | － | 8.1 | 8.6 | 8.3 | 9.7 | 8.6 | 8.4 | 7.7 | 7.7 | 6.6 | 7.0 | 6.7 | 7.2 | 6.2 | 6.0 | 5.2 | 5.3 | $5.2 \ddagger$ | 5.3 | 4.8 |  |
| Female | － | 2.7 | 3.6 | 3.2 | 4.0 | 3.6 | 3.4 | 3.4 | 2.9 | 2.7 | 3.0 | 2.8 | 2.5 | 2.3 | 2.2 | 1.9 | 1.6 | $1.6 \ddagger$ | 1.6 | 1.2 |  |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | － | 7.3 | 8.0 | 7.3 | 9.1 | 8.1 | 7.7 | 7.5 | 6.7 | 6.0 | 6.5 | 6.8 | 7.0 | 6.0 | 6.1 | 4.9 | 5.4 | $5.3 \ddagger$ | 4.3 | 4.4 |  |
| Complete 4 years | － | 3.6 | 4.0 | 4.1 | 5.0 | 4.4 | 4.6 | 4.1 | 4.0 | 3.6 | 4.0 | 3.5 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | $2.7 \ddagger$ | 2.9 | 2.4 |  |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | － | 6.3 | 6.5 | 6.2 | 8.7 | 7.4 | 7.5 | 6.3 | 5.9 | 6.5 | 6.6 | 4.9 | 4.2 | 4.2 | 4.3 | 4.6 | 3.3 | $2.9 \ddagger$ | 5.3 | 3.0 |  |
| Midwest | － | 6.9 | 6.7 | 7.0 | 6.8 | 6.7 | 6.6 | 7.6 | 6.2 | 4.3 | 4.4 | 4.9 | 5.3 | 4.8 | 5.1 | 3.9 | 3.9 | 3．7才 | 3.3 | 3.1 |  |
| South | － | 4.6 | 5.9 | 5.0 | 7.2 | 5.2 | 5.2 | 5.0 | 5.4 | 5.3 | 5.0 | 4.9 | 5.1 | 4.0 | 4.0 | 3.4 | 4.1 | 3．7才 | 3.5 | 3.0 |  |
| West | － | 3.8 | 4.3 | 3.8 | 3.8 | 4.5 | 4.3 | 2.8 | 3.6 | 2.8 | 4.0 | 4.2 | 4.5 | 3.9 | 3.5 | 2.9 | 2.7 | 2．9才 | 1.8 | 2.5 |  |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | － | 5.4 | 5.9 | 6.2 | 7.0 | 7.1 | 6.5 | 6.4 | 5.6 | 5.1 | 5.3 | 4.1 | 3.7 | 3.5 | 4.0 | 4.7 | 3.3 | $3.4 \ddagger$ | 2.7 | 2.5 |  |
| Other MSA | － | 5.4 | 5.8 | 5.5 | 6.1 | 5.4 | 5.3 | 5.1 | 5.7 | 4.5 | 5.1 | 4.5 | 5.4 | 4.5 | 3.9 | 3.2 | 3.5 | 3．1才 | 3.6 | 2.8 |  |
| Non－MSA | － | 6.1 | 6.5 | 5.7 | 7.9 | 6.1 | 6.6 | 6.1 | 5.9 | 5.1 | 4.8 | 5.8 | 4.9 | 4.5 | 5.2 | 3.8 | 4.1 | 4．1才 | 3.6 | 3.6 |  |
| Parental Education：${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | － | 5.7 | 5.0 | 4.7 | 6.2 | 6.3 | 5.8 | 5.2 | 6.1 | 5.2 | 5.5 | 5.5 | 5.8 | 5.0 | 3.9 | 3.1 | 4.2 | $3.0 \ddagger$ | 3.6 | 2.3 |  |
| 2．5－3．0 | － | 6.2 | 7.1 | 6.4 | 7.2 | 6.5 | 6.3 | 6.1 | 5.2 | 5.1 | 5.2 | 4.7 | 4.5 | 4.3 | 5.0 | 3.9 | 4.1 | 4．0才 | 2.6 | 3.4 |  |
| 3．5－4．0 | － | 5.0 | 5.3 | 5.3 | 6.4 | 5.5 | 6.1 | 5.5 | 5.3 | 4.6 | 4.7 | 4.6 | 4.9 | 3.8 | 4.0 | 3.5 | 3.0 | $2.9 \ddagger$ | 3.7 | 2.5 |  |
| 4．5－5．0 | － | 5.6 | 5.7 | 5.6 | 6.7 | 5.8 | 4.8 | 5.6 | 5.1 | 4.1 | 4.5 | 4.4 | 4.8 | 3.9 | 3.8 | 3.4 | 3.1 | 2．8 $\ddagger$ | 3.6 | 2.8 |  |
| 5．5－6．0（High） | － | 5.0 | 6.3 | 5.6 | 8.8 | 5.5 | 6.3 | 5.2 | 5.6 | 4.1 | 4.8 | 4.0 | 4.5 | 4.8 | 3.0 | 4.2 | 4.1 | $4.7 \ddagger$ | 2.9 | 3.1 |  |
| Race／Ethnicity（2－year average）：${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | － | － | 6.0 | 6.2 | 6.6 | 6.8 | 6.5 | 6.3 | 5.9 | 5.3 | 5.1 | 5.2 | 5.1 | 4.8 | 4.5 | 4.2 | 3.8 | 3.6 | 3．1才 | 3.1 |  |
| African American | － | － | 2.2 | 2.0 | 2.1 | 2.5 | 2.3 | 2.2 | 2.3 | 2.2 | 2.2 | 2.1 | 2.1 | 2.2 | 2.4 | 2.1 | 1.6 | 1.9 | $2.3 \ddagger$ | 2.6 |  |
| Hispanic | － | － | 5.3 | 4.6 | 4.0 | 4.3 | 4.5 | 3.7 | 3.2 | 4.0 | 5.0 | 4.7 | 4.6 | 4.6 | 4.3 | 3.8 | 3.6 | 3.6 | $2.8 \ddagger$ | 3.1 |  |

TABLE 89 (cont.)
ALCOHOL: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 12

|  | Percentage who used daily in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $2004^{\text {c }}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 3.6 | 3.7 | 3.9 | 4.0 | 3.4 | 2.9 | 3.6 | 3.5 | 3.2 | 2.8 | 3.1 | 3.0 | 3.1 | 2.8 | 2.5 | 2.7 | 2.1 | 2.5 | 2.2 | 1.9 | 1.9 | 0.0 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 5.5 | 5.2 | 5.7 | 6.4 | 5.2 | 4.7 | 5.5 | 5.3 | 4.7 | 4.1 | 4.4 | 4.3 | 4.3 | 4.0 | 3.6 | 3.6 | 2.9 | 3.6 | 3.0 | 2.8 | 2.3 | -0.5 |
| Female | 1.6 | 2.0 | 1.9 | 1.4 | 1.4 | 1.1 | 1.7 | 1.7 | 1.6 | 1.4 | 1.6 | 1.5 | 1.9 | 1.7 | 1.3 | 1.6 | 1.2 | 1.2 | 1.2 | 1.0 | 1.4 | +0.4 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 5.4 | 5.0 | 6.0 | 6.8 | 5.9 | 4.8 | 5.3 | 4.8 | 5.0 | 4.3 | 5.6 | 4.9 | 4.8 | 5.1 | 5.0 | 4.4 | 4.1 | 3.8 | 4.8 | 3.7 | 3.9 | +0.2 |
| Complete 4 years | 2.9 | 3.1 | 3.2 | 3.0 | 2.6 | 2.2 | 2.9 | 3.1 | 2.4 | 2.2 | 2.3 | 2.4 | 2.6 | 2.2 | 1.8 | 2.2 | 1.6 | 2.1 | 1.5 | 1.4 | 1.4 | +0.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 2.8 | 4.1 | 3.7 | 4.1 | 2.8 | 3.0 | 3.1 | 2.8 | 3.7 | 3.3 | 3.1 | 3.3 | 3.5 | 2.2 | 2.2 | 2.9 | 2.8 | 3.3 | 2.2 | 1.3 | 2.0 | +0.6 |
| Midwest | 4.3 | 3.8 | 4.5 | 4.1 | 3.2 | 3.1 | 4.5 | 4.6 | 3.4 | 2.6 | 3.6 | 3.3 | 3.3 | 2.9 | 3.2 | 3.2 | 2.6 | 2.6 | 2.3 | 2.1 | 2.1 | 0.0 |
| South | 3.8 | 3.6 | 4.1 | 4.2 | 3.9 | 2.8 | 3.5 | 3.3 | 3.0 | 2.8 | 3.2 | 3.1 | 3.4 | 3.8 | 2.3 | 2.9 | 1.7 | 2.1 | 2.2 | 1.9 | 1.8 | -0.1 |
| West | 2.8 | 3.1 | 3.2 | 3.2 | 3.2 | 2.9 | 3.0 | 3.0 | 2.6 | 2.5 | 2.1 | 2.4 | 2.0 | 1.7 | 2.1 | 1.8 | 1.8 | 2.5 | 1.9 | 1.9 | 1.8 | -0.2 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 3.5 | 4.4 | 3.9 | 3.4 | 2.3 | 3.0 | 3.6 | 3.4 | 2.1 | 2.5 | 2.8 | 3.4 | 3.1 | 2.1 | 2.5 | 2.7 | 2.3 | 2.2 | 1.8 | 1.6 | 2.1 | +0.4 |
| Other MSA | 3.5 | 3.3 | 4.0 | 4.1 | 3.4 | 2.7 | 3.6 | 3.2 | 3.5 | 3.3 | 3.1 | 2.8 | 3.3 | 2.6 | 2.6 | 2.7 | 2.1 | 2.8 | 2.2 | 2.0 | 1.5 | -0.5 |
| Non-MSA | 3.6 | 3.7 | 3.9 | 4.3 | 4.4 | 3.4 | 3.7 | 4.2 | 3.9 | 2.3 | 3.4 | 3.0 | 2.6 | 4.2 | 2.3 | 2.8 | 2.0 | 2.4 | 2.7 | 1.9 | 2.7 | +0.8 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 3.9 | 2.6 | 3.8 | 5.3 | 4.0 | 3.5 | 3.5 | 2.5 | 2.7 | 3.4 | 2.6 | 3.1 | 3.6 | 2.6 | 3.3 | 2.9 | 2.4 | 2.8 | 2.3 | 2.6 | 3.1 | +0.5 |
| 2.5-3.0 | 3.9 | 3.5 | 3.7 | 4.1 | 3.6 | 2.9 | 3.4 | 3.4 | 3.6 | 3.0 | 3.7 | 3.4 | 3.6 | 2.6 | 2.4 | 2.9 | 2.9 | 2.2 | 3.0 | 1.5 | 1.8 | +0.3 |
| 3.5-4.0 | 2.7 | 3.4 | 3.2 | 4.0 | 3.3 | 3.0 | 3.4 | 3.7 | 2.9 | 2.9 | 2.5 | 2.8 | 2.9 | 2.7 | 2.5 | 2.3 | 2.1 | 2.5 | 1.7 | 1.5 | 1.8 | +0.2 |
| 4.5-5.0 | 3.9 | 4.0 | 3.9 | 3.6 | 2.9 | 2.4 | 3.3 | 3.1 | 3.0 | 2.0 | 3.1 | 2.7 | 3.0 | 2.9 | 2.1 | 2.5 | 1.3 | 2.5 | 2.1 | 2.2 | 1.6 | -0.7 |
| 5.5-6.0 (High) | 3.5 | 3.6 | 4.7 | 3.1 | 3.2 | 2.9 | 3.9 | 4.0 | 2.3 | 2.6 | 2.7 | 2.8 | 2.4 | 2.6 | 1.5 | 2.0 | 2.0 | 2.5 | 1.7 | 1.8 | 1.5 | -0.3 |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 3.3 | 3.7 | 4.1 | 4.3 | 3.9 | 3.3 | 3.5 | 3.8 | 3.6 | 3.2 | 3.3 | 3.4 | 3.4 | 3.4 | 2.9 | 2.6 | 2.5 | 2.5 | 2.4 | 2.0 | 1.9 | -0.1 |
| African American | 2.5 | 2.2 | 1.8 | 1.8 | 1.6 | 1.4 | 1.6 | 1.6 | 1.5 | 1.2 | 1.1 | 1.5 | 1.5 | 1.3 | 1.4 | 2.1 | 2.0 | 1.5 | 1.5 | 1.4 | 1.1 | -0.2 |
| Hispanic | 3.5 | 4.0 | 4.0 | 4.3 | 4.8 | 5.0 | 4.1 | 3.3 | 2.8 | 2.7 | 2.9 | 2.9 | 3.1 | 2.8 | 2.5 | 2.5 | 2.4 | 2.3 | 2.7 | 2.3 | 2.0 | -0.3 |


| Hispanic | 3.5 | 4.0 |
| :--- | :---: | :---: |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |

Source. T
Notes.
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- indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B
for definition of variables in table.
${ }^{\text {a }}$ 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 1993 data are based on the changed forms only; $N$ is three sixths of $N$ indicated. In 1994 the question text was changed in the remaining forms. Beginning in 1994, the data are based on all six forms. In 2004 the question text was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change. The remaining forms were changed in 2005.
${ }^{\text {b }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\text {c }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 90
BEEN DRUNK: Trends in 30-Day Prevalence by Subgroups in Grade 8

Percentage who had been drunk in last 30 days
2014-



| Total | 7.6 | 7.5 | 7.8 | 8.7 | 8.3 | 9.6 | 8.2 | 8.4 | 9.4 | 8.3 | 7.7 | 6.7 | 6.7 | 6.2 | 6.0 | 6.2 | 5.5 | 5.4 | 5.4 | 5.0 | 4.4 | 3.6 | 3.5 | 2.7 | 3.1 | +0.3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 8.4 | 7.4 | 7.8 | 9.0 | 8.2 | 9.7 | 8.4 | 8.5 | 10.2 | 8.2 | 7.8 | 7.1 | 6.6 | 5.8 | 5.9 | 6.1 | 5.3 | 5.3 | 5.3 | 4.8 | 4.4 | 3.3 | 3.0 | 2.7 | 2.9 | +0.1 |
| Female | 7.0 | 7.6 | 7.8 | 8.3 | 8.2 | 9.5 | 7.9 | 8.2 | 8.6 | 8.1 | 7.4 | 6.3 | 6.8 | 6.6 | 6.2 | 6.2 | 5.6 | 5.4 | 5.3 | 5.2 | 4.2 | 3.8 | 4.0 | 2.7 | 3.0 | +0.4 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 15.8 | 17.2 | 18.4 | 20.0 | 17.2 | 19.3 | 18.7 | 21.4 | 22.4 | 18.9 | 18.9 | 15.5 | 17.0 | 16.1 | 15.7 | 15.4 | 16.3 | 14.9 | 14.9 | 12.9 | 10.9 | 9.5 | 10.9 | 6.7 | 6.7 | 0.0 |
| Complete 4 years | 6.4 | 6.1 | 6.4 | 7.3 | 7.3 | 8.2 | 7.1 | 6.9 | 8.0 | 7.0 | 6.5 | 5.9 | 5.7 | 5.2 | 5.1 | 5.4 | 4.6 | 4.6 | 4.6 | 4.4 | 3.9 | 3.1 | 3.0 | 2.4 | 2.7 | +0.3 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 5.7 | 6.4 | 6.2 | 8.2 | 8.2 | 9.7 | 7.9 | 6.9 | 9.4 | 8.3 | 8.0 | 5.3 | 4.9 | 4.8 | 4.2 | 5.8 | 3.5 | 4.5 | 4.7 | 4.2 | 2.9 | 3.5 | 2.7 | 2.0 | 2.6 | +0.6 |
| Midwest | 7.7 | 7.6 | 7.3 | 8.3 | 8.3 | 10.2 | 8.2 | 10.4 | 11.6 | 9.7 | 8.2 | 7.0 | 8.1 | 6.8 | 6.2 | 6.3 | 5.7 | 5.3 | 5.0 | 4.7 | 4.1 | 2.2 | 2.6 | 2.3 | 2.4 | +0.1 |
| South | 8.8 | 8.2 | 8.3 | 8.8 | 8.4 | 9.1 | 8.3 | 7.8 | 9.5 | 7.4 | 8.1 | 7.6 | 7.2 | 6.4 | 7.1 | 6.9 | 6.1 | 6.8 | 6.5 | 5.7 | 4.4 | 4.4 | 4.5 | 2.8 | 3.3 | +0.4 |
| West | 7.3 | 6.9 | 9.4 | 9.6 | 8.2 | 9.8 | 8.3 | 8.3 | 6.6 | 8.1 | 6.0 | 5.9 | 6.0 | 6.4 | 5.8 | 5.2 | 5.7 | 4.2 | 4.4 | 4.8 | 5.7 | 3.5 | 3.3 | 3.4 | 3.6 | +0.2 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 7.4 | 7.0 | 6.0 | 7.6 | 7.2 | 8.9 | 6.7 | 6.9 | 7.8 | 7.1 | 6.3 | 5.2 | 5.6 | 5.4 | 5.4 | 5.1 | 4.8 | 5.4 | 4.0 | 4.7 | 3.5 | 3.1 | 3.1 | 2.5 | 2.6 | +0.1 |
| Other MSA | 7.3 | 7.4 | 8.4 | 9.7 | 8.9 | 9.9 | 8.6 | 7.5 | 8.4 | 7.2 | 7.9 | 7.3 | 6.8 | 6.5 | 6.1 | 6.4 | 5.6 | 5.2 | 5.8 | 5.2 | 4.8 | 4.1 | 3.3 | 2.8 | 3.3 | +0.6 |
| Non-MSA | 8.4 | 8.2 | 8.8 | 7.9 | 8.6 | 10.0 | 9.2 | 11.7 | 13.3 | 12.0 | 8.9 | 7.3 | 8.1 | 6.5 | 6.9 | 7.5 | 6.4 | 5.9 | 6.3 | 5.0 | 4.7 | 3.2 | 4.6 | 3.0 | 3.2 | +0.2 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 13.4 | 11.0 | 10.4 | 12.5 | 13.1 | 11.1 | 11.5 | 13.1 | 14.5 | 14.0 | 12.1 | 10.5 | 13.4 | 10.0 | 9.3 | 9.4 | 10.6 | 10.1 | 10.1 | 7.8 | 7.9 | 6.0 | 6.4 | 3.8 | 4.9 | +1.1 |
| 2.5-3.0 | 9.2 | 8.8 | 9.2 | 9.3 | 9.6 | 11.9 | 9.3 | 9.5 | 11.7 | 10.5 | 9.7 | 8.5 | 9.4 | 7.4 | 8.4 | 7.9 | 7.9 | 7.4 | 6.3 | 7.1 | 6.6 | 5.6 | 4.6 | 3.4 | 4.1 | +0.7 |
| 3.5-4.0 | 6.9 | 7.6 | 8.5 | 9.3 | 9.4 | 10.4 | 10.2 | 9.1 | 9.9 | 8.0 | 8.7 | 6.7 | 7.1 | 6.8 | 6.7 | 7.1 | 6.0 | 5.8 | 5.4 | 5.3 | 4.8 | 4.1 | 4.3 | 2.9 | 2.6 | -0.3 |
| 4.5-5.0 | 6.1 | 6.5 | 5.9 | 7.5 | 6.4 | 8.7 | 6.7 | 7.0 | 6.9 | 5.6 | 5.7 | 5.5 | 4.5 | 5.0 | 4.6 | 4.4 | 3.1 | 3.7 | 4.4 | 4.2 | 3.2 | 2.6 | 2.4 | 2.4 | 2.3 | -0.1 |
| 5.5-6.0 (High) | 6.8 | 4.9 | 6.7 | 7.6 | 6.0 | 7.1 | 5.8 | 6.9 | 8.7 | 7.1 | 4.6 | 4.8 | 4.2 | 4.4 | 3.5 | 4.6 | 3.1 | 3.3 | 3.4 | 2.6 | 2.7 | 1.6 | 2.2 | 2.2 | 2.5 | +0.3 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 7.7 | 7.8 | 8.4 | 8.9 | 9.7 | 9.7 | 9.1 | 9.8 | 10.0 | 9.0 | 8.0 | 7.2 | 6.8 | 6.6 | 6.4 | 5.9 | 5.5 | 5.5 | 5.3 | 4.7 | 3.9 | 3.3 | 2.9 | 2.6 | -0.3 |
| African American | - | 5.4 | 5.1 | 5.6 | 5.6 | 5.5 | 4.6 | 3.9 | 4.9 | 4.7 | 4.0 | 4.0 | 4.2 | 4.1 | 3.8 | 3.6 | 3.7 | 3.8 | 3.6 | 3.4 | 2.9 | 2.7 | 3.0 | 2.4 | 2.0 | -0.4 |
| Hispanic | - | 9.9 | 9.9 | 10.8 | 10.8 | 10.8 | 10.4 | 9.8 | 9.9 | 8.5 | 7.8 | 8.4 | 8.5 | 8.1 | 7.0 | 7.2 | 7.4 | 6.7 | 6.2 | 5.8 | 5.6 | 5.5 | 4.5 | 3.6 | 3.5 | -0.1 |

[^15]
## TABLE 91

BEEN DRUNK: Trends in 30-Day Prevalence by Subgroups in Grade 10

Percentage who had been drunk in last 30 days
2014-
$\underline{19} 1 \underline{1992} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015} \quad \underline{c h a n g e}$

 $\begin{array}{lllllllllllllllllllllllll}20.5 & 18.1 & 19.8 & 20.3 & 20.8 & 21.3 & 22.4 & 21.1 & 22.5 & 23.5 & 21.9 & 18.3 & 18.2 & 18.5 & 17.6 & 18.8 & 18.1 & 14.4 & 15.5 & 14.7 & 13.7 & 14.5 & 12.8 & 11.2 & 10.3\end{array}-1.0$ Gender:


College Plans:
None or under 4 years
$\begin{array}{lllllllllllllllllllllllllllll}18.7 & 17.5 & 18.1 & 17.2 & 19.6 & 19.8 & 20.2 & 19.9 & 19.8 & 20.9 & 19.7 & 17.4 & 17.7 & 17.0 & 16.8 & 18.4 & 17.4 & 14.3 & 14.8 & 13.7 & 12.4 & 13.5 & 12.4 & 11.5 & 10.3 & -1.3\end{array}$

Complete 4 years
Region:

| Northeast | 23.9 | 18.8 | 20.0 | 19.0 | 19.5 | 22.4 | 21.9 | 23.1 | 25.8 | 22.8 | 19.9 | 18.1 | 20.3 | 22.4 | 20.5 | 20.4 | 20.5 | 15.3 | 14.6 | 14.7 | 16.6 | 18.6 | 13.6 | 13.3 | 11.6 | -1.7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Midwest | 21.8 | 18.9 | 20.1 | 21.0 | 22.6 | 22.0 | 23.3 | 21.8 | 26.0 | 27.6 | 24.0 | 18.7 | 18.8 | 16.6 | 17.4 | 19.8 | 19.6 | 16.0 | 15.0 | 15.3 | 11.9 | 12.8 | 11.4 | 9.7 | 9.5 | -0.1 |
| South | 19.2 | 16.8 | 19.8 | 20.9 | 20.9 | 21.4 | 22.0 | 21.9 | 20.3 | 21.4 | 21.5 | 17.5 | 17.6 | 18.7 | 17.2 | 17.6 | 16.3 | 14.9 | 16.6 | 14.5 | 14.0 | 15.0 | 13.9 | 11.6 | 11.4 | -0.2 |
| West | 18.2 | 18.3 | 19.0 | 19.5 | 19.5 | 19.3 | 22.6 | 17.0 | 19.0 | 22.4 | 21.2 | 19.5 | 16.5 | 16.7 | 15.2 | 17.9 | 16.9 | 11.8 | 15.5 | 14.3 | 13.0 | 12.1 | 12.4 | 10.7 | 7.9 | -2.8 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 20.6 | 17.6 | 17.6 | 16.1 | 18.2 | 19.6 | 20.7 | 17.2 | 21.6 | 23.4 | 19.5 | 16.5 | 15.7 | 15.1 | 16.2 | 17.7 | 16.3 | 12.7 | 15.3 | 14.2 | 12.9 | 14.9 | 12.8 | 11.3 | 10.0 | -1.3 |
| Other MSA | 20.1 | 17.3 | 18.2 | 21.7 | 21.8 | 21.9 | 21.8 | 21.2 | 22.7 | 22.5 | 21.6 | 18.0 | 18.6 | 20.5 | 18.3 | 19.0 | 18.5 | 14.8 | 15.3 | 14.8 | 14.1 | 13.7 | 13.0 | 10.8 | 9.9 | -0.9 |
| Non-MSA | 21.1 | 19.9 | 24.7 | 21.8 | 21.8 | 22.4 | 25.5 | 25.4 | 23.4 | 25.4 | 25.3 | 21.4 | 21.4 | 19.0 | 17.8 | 20.0 | 20.0 | 16.4 | 16.4 | 15.1 | 14.0 | 15.7 | 12.6 | 12.3 | 11.6 | -0.7 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 20.9 | 18.2 | 22.2 | 20.0 | 23.4 | 22.1 | 19.7 | 20.1 | 21.8 | 21.3 | 22.0 | 17.3 | 19.0 | 17.7 | 15.8 | 18.4 | 17.7 | 16.9 | 19.7 | 18.2 | 13.6 | 15.7 | 15.1 | 12.0 | 8.5 | -3.4 |
| 2.5-3.0 | 22.5 | 18.5 | 21.4 | 21.2 | 22.9 | 23.4 | 22.5 | 23.3 | 23.4 | 24.5 | 22.6 | 19.9 | 18.9 | 21.0 | 19.4 | 21.6 | 19.9 | 15.0 | 17.6 | 16.4 | 15.8 | 14.9 | 13.6 | 11.5 | 11.4 | -0.1 |
| 3.5-4.0 | 20.4 | 19.4 | 19.4 | 22.1 | 21.4 | 22.1 | 24.1 | 21.3 | 23.3 | 24.5 | 22.8 | 19.5 | 19.3 | 18.9 | 17.5 | 19.9 | 19.1 | 15.7 | 16.4 | 14.3 | 14.8 | 14.7 | 13.4 | 12.9 | 11.3 | -1.6 |
| 4.5-5.0 | 19.7 | 17.1 | 18.2 | 18.7 | 19.7 | 19.5 | 22.3 | 20.2 | 21.7 | 24.1 | 21.4 | 17.4 | 17.5 | 17.3 | 17.5 | 17.4 | 16.8 | 13.3 | 13.8 | 13.9 | 12.1 | 15.0 | 12.1 | 10.4 | 10.0 | -0.4 |
| 5.5-6.0 (High) | 20.6 | 18.5 | 18.6 | 17.9 | 17.9 | 22.3 | 22.4 | 20.4 | 24.0 | 23.1 | 21.5 | 16.8 | 17.7 | 19.3 | 17.0 | 17.6 | 17.7 | 14.2 | 14.6 | 13.2 | 13.1 | 14.6 | 12.3 | 11.3 | 9.8 | -1.6 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 21.6 | 20.8 | 22.0 | 22.7 | 23.7 | 25.0 | 25.5 | 25.7 | 26.7 | 25.8 | 23.2 | 21.9 | 21.7 | 21.0 | 20.9 | 21.3 | 19.2 | 17.0 | 16.4 | 15.6 | 16.0 | 15.4 | 14.1 | 12.8 | -1.3 |
| African American | - | 9.4 | 10.3 | 10.1 | 9.8 | 8.5 | 8.6 | 8.8 | 7.6 | 8.6 | 9.5 | 8.6 | 8.0 | 8.3 | 8.0 | 7.8 | 8.3 | 8.0 | 8.4 | 9.3 | 8.3 | 7.6 | 7.2 | 5.5 | 5.3 | -0.2 |
| Hispanic | - | 16.2 | 15.9 | 17.0 | 18.6 | 20.1 | 19.5 | 18.0 | 17.8 | 18.0 | 18.7 | 17.4 | 15.7 | 17.0 | 17.3 | 16.6 | 15.0 | 14.0 | 14.9 | 15.7 | 13.8 | 12.5 | 13.1 | 11.6 | 10.0 | -1.6 |


 See Table S 2 for the number of subgroup cases. See appendix B for definition of variables in table.

${ }^{5}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 92
BEEN DRUNK: Trends in 30-Day Prevalence by Subgroups in Grade 12

Percentage who had been drunk in last 30 days



| - | 31.6 | 29.9 | 28.9 | 30.8 | 33.2 | 31.3 | 34.2 | 32.9 | 32.9 | 32.3 | 32.7 | 30.3 | 30.9 | 32.5 | 30.2 | 30.0 | 28.7 | 27.6 | 27.4 | 26.8 | 25.0 | 28.1 | 26.0 | 23.5 | 20.6 | -2.9 | s |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | Gender:

Male

| - | 37.1 | 35.2 | 34.5 | 34.5 | 37.8 | 35.4 | 39.2 | 39.0 | 37.9 | 38.4 | 37.0 | 34.3 | 34.9 | 36.0 | 33.6 | 32.9 | 31.7 | 29.2 | 32.7 | 31.2 | 27.5 | 30.6 | 29.1 | 24.9 | 21.1 | -3.9 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

College Plans:

| - | 25.4 | 24.5 | 23.5 | 26.8 | 28.8 | 27.3 | 29.1 | 26.6 | 27.7 | 26.7 | 28.4 | 26.9 | 26.9 | 29.0 | 26.4 | 26.3 | 25.7 | 26.2 | 22.5 | 21.8 | 22.0 | 24.8 | 22.7 | 22.4 | 19.6 | -2.8 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

None or under 4 years $\begin{array}{llllllllllllllllllllllllllllllllllllll}- & 32.2 & 31.4 & 32.6 & 32.2 & 37.6 & 31.4 & 38.1 & 33.7 & 36.1 & 35.0 & 36.3 & 31.7 & 37.6 & 34.7 & 34.3 & 37.2 & 30.6 & 32.0 & 31.0 & 32.9 & 27.9 & 29.6 & 28.9 & 25.3 & 21.2 & -4.1\end{array}$ Complete 4 years
Region:
Northeast

| - | 36.4 | 30.0 | 35.0 | 35.2 | 35.5 | 37.2 | 35.9 | 35.6 | 37.5 | 39.3 | 33.9 | 33.6 | 35.4 | 38.1 | 38.7 | 37.9 | 32.6 | 31.1 | 36.3 | 32.4 | 31.5 | 34.7 | 30.1 | 28.6 | 25.1 | -3.5 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |




West

| - | 28.5 | 26.6 | 23.2 | 25.4 | 27.1 | 24.7 | 32.7 | 33.5 | 32.2 | 32.8 | 28.8 | 25.0 | 30.1 | 29.5 | 26.5 | 25.2 | 26.0 | 24.1 | 23.5 | 23.4 | 23.3 | 29.3 | 28.3 | 21.4 | 21.3 | -0.1 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Population Density:
Large MSA
Other MSA
Non-MSA
Parental Education: ${ }^{\text {a }}$
1.0-2.0 (Low)
2.5-3.0
3.5-4.0
4.5-5.0

|  | - | 30.4 | 26.1 | 29.4 | 28.7 | 32.0 | 31.5 | 31.5 | 32.2 | 29.2 | 30.5 | 30.6 | 32.9 | 25.4 | 27.4 | 28.2 | 30.4 | 29.8 | 31.4 | 29.8 | 26.6 | 23.8 | 30.7 | 25.6 | 22.5 | 22.9 | +0.4 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| - | 30.4 | 26.1 | 29.4 | 28.7 | 32.0 | 31.5 | 31.5 | 32.2 | 29.2 | 30.5 | 30.6 | 32.9 | 25.4 | 27.4 | 28.2 | 30.4 | 29.8 | 31.4 | 29.8 | 26.6 | 23.8 | 30.7 | 25.6 | 22.5 | 22.9 | +0.4 |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| - | 33.5 | 29.8 | 26.9 | 29.9 | 31.7 | 33.0 | 33.7 | 34.0 | 35.4 | 34.5 | 31.7 | 29.1 | 33.5 | 37.3 | 31.5 | 29.0 | 27.6 | 25.0 | 25.9 | 26.8 | 26.9 | 28.0 | 28.1 | 25.2 | 18.1 | -7.1 | sss |

5.5-6.0 (High)

| - | 29.4 | 33.7 | 32.0 | 34.4 | 36.9 | 28.2 | 38.2 | 31.4 | 32.5 | 30.5 | 36.7 | 29.2 | 33.2 | 29.1 | 29.9 | 31.4 | 29.4 | 28.8 | 27.8 | 27.2 | 22.3 | 24.1 | 21.1 | 20.7 | 22.6 | +1.9 |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Race/Ethnicity (2-year average): ${ }^{\text {b }}$
White
African American
$\begin{array}{llllllllllllllllllllllllllll}- & 20.4 & 20.5 & 23.6 & 25.7 & 25.4 & 18.8 & 23.7 & 24.6 & 20.8 & 28.4 & 22.2 & 20.0 & 25.6 & 25.5 & 22.0 & 27.7 & 19.7 & 26.7 & 19.8 & 22.4 & 19.1 & 19.7 & 25.7 & 18.7 & 14.0 & -4.7\end{array}$
$\begin{array}{llllllllllllllllllllllllllllllllll}- & 30.2 & 30.0 & 26.4 & 30.3 & 30.0 & 27.4 & 31.5 & 28.0 & 30.5 & 33.1 & 32.2 & 27.0 & 28.7 & 32.3 & 29.9 & 29.5 & 31.6 & 25.3 & 29.0 & 25.4 & 22.9 & 26.6 & 24.8 & 25.2 & 21.4 & -3.8\end{array}$

| - | 31.0 | 31.3 | 29.2 | 29.9 | 34.4 | 31.1 | 32.7 | 34.1 | 34.0 | 31.2 | 32.0 | 32.4 | 30.6 | 35.1 | 31.3 | 31.0 | 26.8 | 28.2 | 28.2 | 28.6 | 26.3 | 29.5 | 25.6 | 21.7 | 22.4 | +0.7 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$\begin{array}{llllllllllllllllllllllllllllll}- & 34.4 & 29.4 & 32.8 & 33.5 & 36.5 & 35.8 & 37.7 & 36.0 & 32.8 & 31.9 & 36.1 & 31.0 & 33.3 & 33.7 & 31.3 & 29.7 & 28.4 & 30.0 & 27.0 & 26.5 & 25.6 & 29.7 & 27.9 & 25.9 & 21.8 & -4.1 \\ - & 40.5 & 34.3 & 30.4 & 30.7 & 34.9 & 34.6 & 39.8 & 39.9 & 40.6 & 35.5 & 33.6 & 34.5 & 33.4 & 32.6 & 32.2 & 30.1 & 33.0 & 27.8 & 29.0 & 26.5 & 27.5 & 30.5 & 27.1 & 25.8 & 21.1 & -4.7\end{array}$

Hispanic
$\begin{array}{llllllllllllllllllllllllllllllllll} & - & - & 34.7 & 33.6 & 34.0 & 36.4 & 36.6 & 37.7 & 39.3 & 37.8 & 37.0 & 37.7 & 36.6 & 35.6 & 36.4 & 36.5 & 35.2 & 33.7 & 32.7 & 31.8 & 31.6 & 29.9 & 29.7 & 30.6 & 29.0 & 26.4 & -2.6 & \mathrm{~s} \\ - & - & 11.0 & 12.5 & 14.1 & 13.2 & 13.0 & 13.8 & 13.8 & 14.9 & 14.9 & 12.0 & 12.1 & 11.7 & 14.3 & 15.4 & 13.5 & 14.6 & 14.8 & 15.1 & 14.7 & 14.2 & 14.3 & 13.4 & 15.1 & 13.8 & -1.4 & \end{array}$

Source. The Monitoring the Future study, the University of Michigan
 See Table S 3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms; $N$ is two sixths of $N$ indicated in Table S 3 .

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

## TABLE 93

## ALCOHOL: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 8

|  | Percentage reporting 5+ drinks in a row on one or more occasions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014- |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | $\underline{2003}$ | $\underline{2004}$ | 2005 | 2006 | 2007 | 2008 | $\underline{2009}$ | 2010 | 2011 | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | change |
| Approximate weighted $N=$ | 17,500 | 18,600 | 18,300 | 17,300 | 17,500 | 17,800 | 18,600 | 18,100 | 16,700 | 16,700 | 16,200 | 15,100 | 16,500 | 17,000 | 16,800 | 16,500 | 16,100 | 15,700 | 15,000 | 15,300 | 16,000 | 15,100 | 14,600 | 14,600 | 14,400 |  |
| Total | 10.9 | 11.3 | 11.3 | 12.1 | 12.3 | 13.3 | 12.3 | 11.5 | 13.1 | 11.7 | 11.0 | 10.3 | 9.8 | 9.4 | 8.4 | 8.7 | 8.3 | 8.1 | 7.8 | 7.2 | 6.4 | 5.1 | 5.1 | 4.1 | 4.6 | +0.5 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 12.1 | 11.6 | 12.4 | 13.2 | 12.5 | 14.1 | 13.0 | 12.1 | 14.0 | 11.7 | 11.5 | 10.4 | 10.2 | 8.8 | 8.2 | 8.6 | 8.2 | 8.1 | 7.8 | 6.5 | 6.1 | 4.6 | 4.5 | 3.5 | 4.6 | +1.1 ss |
| Female | 9.6 | 10.8 | 10.3 | 11.1 | 12.1 | 12.4 | 11.5 | 10.8 | 12.0 | 11.3 | 10.2 | 10.0 | 9.4 | 9.9 | 8.6 | 8.5 | 8.2 | 8.0 | 7.7 | 7.8 | 6.5 | 5.5 | 5.7 | 4.6 | 4.6 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 21.1 | 23.0 | 25.7 | 25.3 | 25.0 | 26.1 | 26.5 | 26.7 | 30.2 | 25.0 | 24.7 | 24.7 | 23.2 | 21.2 | 21.0 | 19.3 | 21.5 | 21.3 | 19.1 | 17.6 | 15.6 | 15.3 | 14.2 | 9.9 | 10.5 | +0.5 |
| Complete 4 years | 9.3 | 9.7 | 9.4 | 10.5 | 10.8 | 11.3 | 10.7 | 9.8 | 11.2 | 10.1 | 9.4 | 9.0 | 8.4 | 8.2 | 7.2 | 7.6 | 7.1 | 7.0 | 6.8 | 6.3 | 5.7 | 4.4 | 4.5 | 3.7 | 4.1 | +0.5 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 8.6 | 8.8 | 8.1 | 10.9 | 11.1 | 12.8 | 10.9 | 9.7 | 12.4 | 11.5 | 10.5 | 8.4 | 7.8 | 8.1 | 6.0 | 7.8 | 5.6 | 7.1 | 8.2 | 6.2 | 3.7 | 4.3 | 4.2 | 3.3 | 3.6 | +0.3 |
| Midwest | 11.5 | 12.5 | 10.9 | 11.5 | 12.2 | 13.5 | 12.0 | 12.4 | 15.5 | 13.2 | 10.8 | 10.5 | 10.8 | 10.1 | 8.7 | 8.8 | 7.5 | 8.2 | 7.0 | 6.5 | 6.1 | 2.6 | 4.1 | 3.4 | 3.8 | +0.4 |
| South | 11.9 | 12.3 | 12.9 | 12.4 | 13.0 | 13.7 | 13.2 | 11.9 | 13.3 | 11.0 | 12.5 | 11.4 | 10.6 | 9.6 | 9.8 | 9.7 | 9.4 | 9.7 | 8.8 | 8.4 | 7.1 | 6.3 | 6.4 | 4.7 | 5.4 | +0.7 |
| West | 10.2 | 10.4 | 12.8 | 13.8 | 12.3 | 12.9 | 12.3 | 11.6 | 10.3 | 10.9 | 9.0 | 9.9 | 9.0 | 9.5 | 8.0 | 7.6 | 8.9 | 6.3 | 6.6 | 6.6 | 8.0 | 6.1 | 4.8 | 4.5 | 4.8 | +0.3 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 10.6 | 10.4 | 8.6 | 10.4 | 10.3 | 12.2 | 11.3 | 10.1 | 11.0 | 10.6 | 9.2 | 8.3 | 8.8 | 8.7 | 8.0 | 8.1 | 7.4 | 8.1 | 6.4 | 6.5 | 5.8 | 4.5 | 4.9 | 4.0 | 4.3 | +0.2 |
| Other MSA | 10.5 | 11.7 | 12.3 | 13.1 | 12.2 | 13.7 | 12.1 | 10.9 | 12.1 | 10.5 | 11.0 | 10.8 | 8.9 | 9.3 | 8.3 | 8.3 | 8.5 | 7.9 | 8.2 | 7.6 | 6.6 | 5.6 | 5.0 | 4.0 | 4.6 | +0.6 |
| Non-MSA | 12.0 | 11.7 | 12.9 | 12.1 | 15.0 | 14.2 | 13.9 | 14.3 | 17.4 | 15.3 | 13.1 | 11.8 | 12.9 | 10.5 | 9.2 | 10.2 | 9.2 | 8.4 | 8.9 | 7.0 | 7.0 | 5.1 | 5.8 | 4.5 | 5.3 | +0.8 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 18.3 | 17.8 | 16.3 | 16.8 | 20.1 | 16.9 | 17.6 | 16.5 | 20.8 | 18.9 | 16.5 | 16.6 | 16.3 | 14.9 | 14.4 | 13.3 | 15.5 | 17.0 | 15.2 | 12.0 | 11.0 | 9.5 | 9.5 | 5.7 | 7.5 | +1.8 |
| 2.5-3.0 | 12.6 | 13.4 | 13.3 | 14.2 | 14.8 | 15.4 | 13.5 | 13.8 | 17.0 | 15.3 | 14.3 | 12.8 | 13.5 | 12.1 | 10.7 | 10.6 | 10.5 | 10.5 | 9.5 | 9.3 | 8.8 | 7.6 | 6.7 | 5.4 | 5.8 | +0.4 |
| 3.5-4.0 | 10.7 | 11.3 | 11.5 | 12.5 | 13.3 | 14.3 | 14.2 | 12.4 | 14.0 | 11.0 | 11.7 | 11.1 | 10.5 | 10.0 | 9.4 | 9.9 | 9.2 | 7.9 | 8.7 | 8.0 | 7.2 | 5.3 | 6.4 | 4.9 | 4.9 | 0.0 |
| 4.5-5.0 | 8.8 | 8.7 | 8.5 | 10.3 | 9.3 | 11.1 | 10.3 | 9.3 | 9.5 | 8.2 | 8.1 | 7.9 | 6.7 | 8.0 | 6.4 | 6.7 | 5.5 | 5.7 | 5.3 | 5.7 | 4.6 | 3.8 | 3.0 | 3.4 | 3.1 | -0.3 |
| 5.5-6.0 (High) | 8.8 | 8.4 | 8.9 | 9.1 | 8.7 | 10.7 | 9.0 | 9.4 | 9.2 | 9.5 | 6.6 | 7.3 | 6.8 | 6.2 | 5.0 | 5.9 | 5.0 | 4.7 | 4.7 | 4.3 | 4.1 | 2.0 | 3.9 | 3.0 | 3.6 | +0.6 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 11.2 | 10.9 | 11.1 | 12.1 | 13.2 | 13.3 | 12.3 | 12.6 | 13.0 | 11.9 | 10.9 | 10.0 | 9.6 | 9.0 | 8.4 | 8.0 | 7.8 | 7.7 | 7.1 | 6.2 | 4.9 | 4.2 | 4.2 | 4.0 | -0.2 |
| African American | - | 6.5 | 7.6 | 8.6 | 8.3 | 8.0 | 7.5 | 6.9 | 7.7 | 7.3 | 6.4 | 7.1 | 7.5 | 6.9 | 6.1 | 5.7 | 5.6 | 5.7 | 5.2 | 5.3 | 5.1 | 4.3 | 4.5 | 4.4 | 4.1 | -0.3 |
| Hispanic | - | 16.5 | 17.7 | 18.9 | 18.4 | 17.5 | 17.4 | 16.9 | 17.4 | 16.0 | 14.4 | 14.4 | 13.8 | 13.2 | 12.1 | 11.6 | 12.5 | 12.3 | 11.5 | 10.8 | 10.4 | 9.9 | 7.8 | 5.7 | 5.4 | -0.4 |

Source. The Monitoring the Future study, the University of Michigan.
 See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.
${ }^{\text {ap }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.


## TABLE 94

## ALCOHOL: Trends in $\underline{2-W e e k}$ Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 10

|  | Percentage reporting 5+ drinks in a row on one or more occasions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 014- |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | $\underline{2001}$ | 2002 | 2003 | 2004 | $\underline{2005}$ | $\underline{2006}$ | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | $\underline{2013}$ | 2014 | 2015 | change |
| Approximate weighted $N=$ | 14,800 | 14,800 | 15,300 | 15,800 | 17,000 | 15,600 | 15,500 | 15,000 | 13,600 | 14,300 | 14,000 | 14,300 | 15,800 | 16,400 | 16,200 | 16,200 | 16,100 | 15,100 | 15,900 | 15,200 | 14,900 | 15,000 | 12,900 | 13,000 | 15,600 |  |
| Total | 21.0 | 19.1 | 21.0 | 21.9 | 22.0 | 22.8 | 23.1 | 22.4 | 23.5 | 24.1 | 22.8 | 20.3 | 20.0 | 19.9 | 19.0 | 19.9 | 19.6 | 16.0 | 17.5 | 16.3 | 14.7 | 15.6 | 13.7 | 12.6 | 10.9 | $-1.7 \mathrm{~s}$ |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 24.1 | 21.5 | 24.1 | 26.4 | 24.1 | 25.1 | 26.3 | 24.7 | 27.4 | 27.6 | 26.1 | 21.6 | 21.1 | 21.6 | 19.9 | 21.0 | 20.9 | 16.6 | 18.8 | 17.9 | 16.5 | 16.4 | 14.7 | 13.1 | 11.3 | $-1.8 \mathrm{~s}$ |
| Female | 18.1 | 17.0 | 17.7 | 17.3 | 19.7 | 20.4 | 20.1 | 20.4 | 20.0 | 20.6 | 19.7 | 19.0 | 19.0 | 18.1 | 17.9 | 18.9 | 18.3 | 15.4 | 16.1 | 14.6 | 12.7 | 14.8 | 12.5 | 12.2 | 10.6 | -1.6 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 30.5 | 28.6 | 31.8 | 34.1 | 34.5 | 35.7 | 36.9 | 35.7 | 36.5 | 36.7 | 37.2 | 31.0 | 31.5 | 29.6 | 31.3 | 30.8 | 30.7 | 29.1 | 29.9 | 30.5 | 27.1 | 25.9 | 21.7 | 24.3 | 18.3 | -6.0 ss |
| Complete 4 years | 19.1 | 17.2 | 18.8 | 19.3 | 19.8 | 20.7 | 20.8 | 20.2 | 21.5 | 22.2 | 20.5 | 18.5 | 18.2 | 18.6 | 17.3 | 18.6 | 18.2 | 14.4 | 16.1 | 14.6 | 13.4 | 14.6 | 12.8 | 11.4 | 10.1 | -1.3 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 23.7 | 18.0 | 21.1 | 19.9 | 20.3 | 22.3 | 21.8 | 24.1 | 26.0 | 23.8 | 20.7 | 19.5 | 21.5 | 23.8 | 21.0 | 21.2 | 20.4 | 16.8 | 16.4 | 15.2 | 16.8 | 19.5 | 14.5 | 13.8 | 11.9 | -1.9 |
| Midwest | 21.7 | 19.8 | 22.0 | 23.0 | 23.3 | 23.4 | 22.4 | 22.2 | 25.0 | 26.2 | 24.8 | 20.3 | 19.9 | 16.7 | 18.8 | 20.0 | 20.7 | 16.5 | 17.2 | 16.2 | 13.0 | 13.8 | 12.3 | 11.4 | 9.7 | -1.7 |
| South | 20.8 | 18.9 | 20.4 | 22.9 | 22.4 | 23.5 | 23.4 | 23.1 | 22.1 | 22.5 | 22.1 | 19.7 | 19.1 | 20.1 | 18.6 | 19.1 | 18.4 | 16.3 | 18.4 | 16.7 | 15.4 | 16.2 | 15.0 | 13.3 | 11.9 | -1.4 |
| West | 18.6 | 19.8 | 20.0 | 20.4 | 21.1 | 21.4 | 25.3 | 19.9 | 21.7 | 24.6 | 23.1 | 22.2 | 20.1 | 19.6 | 17.6 | 20.1 | 19.5 | 14.4 | 17.4 | 16.9 | 14.1 | 13.2 | 12.8 | 11.9 | 9.6 | -2.4 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 20.2 | 17.5 | 19.1 | 17.6 | 18.4 | 20.5 | 20.4 | 18.3 | 22.4 | 24.0 | 20.8 | 17.6 | 18.0 | 16.9 | 17.4 | 19.2 | 17.9 | 14.5 | 16.7 | 16.0 | 14.3 | 15.9 | 13.7 | 12.3 | 11.0 | -1.3 |
| Other MSA | 20.4 | 18.1 | 19.2 | 22.7 | 22.1 | 23.0 | 22.9 | 22.0 | 22.7 | 23.4 | 21.7 | 20.4 | 19.9 | 21.6 | 19.4 | 19.7 | 19.6 | 16.0 | 17.0 | 16.5 | 14.7 | 14.8 | 13.7 | 12.4 | 10.3 | -2.1 |
| Non-MSA | 22.9 | 22.8 | 25.8 | 24.6 | 25.9 | 25.3 | 26.6 | 28.0 | 26.7 | 25.7 | 27.2 | 23.8 | 23.4 | 20.1 | 20.3 | 21.9 | 22.5 | 18.1 | 19.8 | 16.7 | 15.4 | 16.6 | 13.7 | 13.8 | 12.4 | -1.4 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 23.2 | 23.0 | 24.3 | 22.6 | 26.7 | 24.7 | 22.7 | 24.1 | 25.2 | 24.7 | 23.0 | 23.9 | 24.4 | 23.0 | 21.0 | 19.8 | 22.0 | 20.6 | 25.7 | 22.8 | 17.6 | 20.5 | 17.8 | 15.4 | 13.9 | -1.5 |
| 2.5-3.0 | 23.8 | 20.0 | 23.4 | 23.4 | 24.7 | 25.5 | 23.5 | 25.5 | 26.3 | 27.0 | 24.6 | 22.5 | 21.8 | 21.9 | 21.3 | 22.8 | 22.6 | 17.8 | 19.6 | 19.5 | 17.1 | 17.3 | 15.1 | 14.0 | 11.9 | -2.2 |
| 3.5-4.0 | 19.9 | 19.2 | 20.6 | 23.3 | 22.8 | 23.7 | 24.6 | 22.8 | 23.6 | 23.8 | 24.2 | 20.7 | 20.5 | 20.4 | 18.9 | 21.2 | 20.7 | 16.6 | 18.4 | 16.3 | 15.8 | 15.0 | 13.6 | 13.7 | 12.1 | -1.6 |
| 4.5-5.0 | 19.3 | 18.1 | 18.6 | 20.2 | 20.2 | 20.3 | 21.6 | 20.1 | 21.3 | 23.3 | 21.5 | 17.7 | 17.8 | 18.2 | 17.9 | 18.1 | 17.7 | 14.7 | 14.7 | 14.1 | 12.7 | 15.4 | 12.5 | 10.7 | 10.1 | -0.6 |
| 5.5-6.0 (High) | 20.9 | 18.4 | 18.9 | 18.5 | 17.3 | 22.4 | 22.4 | 20.1 | 23.6 | 23.1 | 21.2 | 18.7 | 18.4 | 19.0 | 17.9 | 19.0 | 17.2 | 12.8 | 14.8 | 13.1 | 12.3 | 14.7 | 12.1 | 11.6 | 9.6 | -2.0 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 21.6 | 21.4 | 22.9 | 23.8 | 24.5 | 25.2 | 25.3 | 25.4 | 26.2 | 25.6 | 23.6 | 22.5 | 22.2 | 21.8 | 21.7 | 21.8 | 19.7 | 17.9 | 17.2 | 16.1 | 16.3 | 15.7 | 14.4 | 13.0 | $-1.4 \mathrm{~s}$ |
| African American | - | 12.3 | 11.9 | 11.8 | 11.1 | 9.4 | 10.0 | 10.6 | 10.7 | 10.8 | 10.3 | 10.0 | 9.8 | 9.7 | 9.1 | 9.1 | 10.0 | 9.8 | 9.8 | 10.7 | 9.4 | 8.2 | 8.6 | 7.5 | 6.9 | -0.6 |
| Hispanic | - | 20.3 | 20.5 | 20.9 | 23.3 | 25.7 | 24.4 | 23.6 | 24.4 | 25.1 | 24.8 | 23.3 | 22.9 | 23.3 | 22.4 | 21.2 | 20.1 | 19.6 | 20.6 | 22.2 | 19.7 | 17.1 | 16.9 | 15.0 | 13.2 | -1.8 s |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {b }}$ To derive percentages for each racial | subgroup | , data for | the specif | ified year | and the pr | revious ye | ear have b | been com | bined to in | increase s | subgroup | sample siz | sand th | s provid | de mor | estim | mates. Se | app | B for d | details on how | now race/e | ethnicity is | defined. |  |  |  |

## TABLE 95

## ALCOHOL: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

|  |  |  |  |  |  |  |  | ntag | port | + dr | in a | on 0 | r mo | ccas |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | cont.) |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | 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 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 49.0 | 47.9 | 50.0 | 51.4 | 51.9 | 52.1 | 51.6 | 49.8 | 50.4 | 47.5 | 45.3 | 46.1 | 46.1 | 43.0 | 41.2 | 39.1 | 37.8 | 35.6 | 34.6 | 37.0 |  |
| Female | 26.4 | 25.9 | 29.3 | 29.6 | 30.9 | 30.5 | 30.8 | 31.1 | 31.0 | 29.6 | 28.2 | 28.1 | 29.2 | 26.5 | 24.9 | 24.4 | 21.2 | 20.3 | 20.7 | 20.2 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 41.8 | 44.7 | 44.3 | 44.5 | 46.3 | 46.7 | 45.7 | 44.9 | 43.5 | 41.6 | 41.3 | 42.7 | 38.5 | 38.2 | 35.8 | 34.4 | 32.8 | 32.7 | 34.0 |  |
| Complete 4 years | - | 31.5 | 33.9 | 35.9 | 37.7 | 36.9 | 37.4 | 36.5 | 37.2 | 34.6 | 33.0 | 34.1 | 35.0 | 32.8 | 30.5 | 30.3 | 27.9 | 26.0 | 25.8 | 26.3 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 43.0 | 40.8 | 40.0 | 43.5 | 47.4 | 48.0 | 49.3 | 43.3 | 42.2 | 42.9 | 42.4 | 37.1 | 37.2 | 34.3 | 33.3 | 37.2 | 33.4 | 25.8 | 30.3 | 29.2 |  |
| Midwest | 40.6 | 42.8 | 44.5 | 45.3 | 44.8 | 45.4 | 44.9 | 47.9 | 47.2 | 44.3 | 39.7 | 42.6 | 43.5 | 39.9 | 40.4 | 37.9 | 34.6 | 34.6 | 30.1 | 31.9 |  |
| South | 32.1 | 30.8 | 36.3 | 36.4 | 36.7 | 34.4 | 34.7 | 34.6 | 37.6 | 33.5 | 29.7 | 31.7 | 33.4 | 30.4 | 28.5 | 27.2 | 26.3 | 24.7 | 27.1 | 26.9 |  |
| West | 29.0 | 32.8 | 34.2 | 33.3 | 34.0 | 36.0 | 35.6 | 32.5 | 33.3 | 34.5 | 36.1 | 35.9 | 36.6 | 35.4 | 30.8 | 26.3 | 26.3 | 26.0 | 22.0 | 24.5 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 37.9 | 37.0 | 38.1 | 39.5 | 42.2 | 44.8 | 43.4 | 40.9 | 38.8 | 37.9 | 37.6 | 36.4 | 34.8 | 32.5 | 28.8 | 34.5 | 28.6 | 25.5 | 27.6 | 26.8 |  |
| Other MSA | 36.1 | 36.8 | 39.5 | 40.1 | 40.8 | 38.9 | 39.5 | 39.7 | 41.0 | 37.3 | 35.4 | 35.5 | 38.6 | 35.3 | 33.7 | 31.8 | 30.1 | 27.0 | 26.5 | 27.1 |  |
| Non-MSA | 36.9 | 38.0 | 40.5 | 41.3 | 40.9 | 41.4 | 42.2 | 41.3 | 42.0 | 41.2 | 37.6 | 39.1 | 38.3 | 35.9 | 35.8 | 30.6 | 30.4 | 31.9 | 29.2 | 31.5 |  |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 31.6 | 34.1 | 35.6 | 36.3 | 36.0 | 37.0 | 37.0 | 35.3 | 37.2 | 34.8 | 31.8 | 31.7 | 33.9 | 30.7 | 25.4 | 25.3 | 26.8 | 23.4 | 21.9 | 24.0 |  |
| 2.5-3.0 | 37.5 | 41.1 | 41.8 | 40.9 | 42.3 | 43.3 | 43.2 | 41.4 | 41.2 | 39.8 | 38.2 | 37.9 | 38.9 | 35.7 | 34.0 | 32.7 | 29.9 | 28.1 | 27.6 | 28.5 |  |
| 3.5-4.0 | 35.1 | 36.4 | 39.5 | 41.3 | 41.4 | 42.1 | 42.4 | 42.4 | 40.9 | 39.3 | 36.9 | 37.9 | 38.3 | 34.7 | 34.3 | 32.0 | 30.4 | 27.9 | 28.4 | 28.4 |  |
| 4.5-5.0 | 34.4 | 36.9 | 37.2 | 42.4 | 43.8 | 40.8 | 40.8 | 41.9 | 41.9 | 38.6 | 37.1 | 37.1 | 37.2 | 35.1 | 34.2 | 34.5 | 29.9 | 28.1 | 28.4 | 29.3 |  |
| 5.5-6.0 (High) | 29.9 | 34.5 | 41.1 | 37.2 | 41.9 | 38.5 | 39.3 | 40.9 | 42.1 | 38.2 | 34.9 | 36.7 | 37.2 | 34.7 | 31.8 | 34.1 | 30.6 | 30.4 | 29.0 | 29.0 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 40.5 | 42.4 | 43.5 | 44.3 | 44.9 | 44.9 | 44.5 | 43.6 | 41.5 | 40.3 | 40.9 | 40.0 | 37.9 | 36.6 | 34.6 | 32.1 | 31.3 | 31.5 |  |
| African American | - | - | 19.0 | 19.3 | 18.9 | 17.7 | 17.1 | 17.1 | 18.3 | 17.2 | 15.7 | 16.4 | 15.8 | 15.2 | 15.7 | 14.4 | 11.7 | 11.3 | 12.6 | 14.4 |  |
| Hispanic | - | - | 36.4 | 37.2 | 33.6 | 33.1 | 34.8 | 32.9 | 32.5 | 33.0 | 31.7 | 30.8 | 33.0 | 33.7 | 28.8 | 25.6 | 27.9 | 31.1 | 27.2 | 24.3 |  |

(Table continued on next page.)

# TABLE 95 (cont.) 

## ALCOHOL: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

|  | Percentage reporting 5+ drinks in a row on one or more occasions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014- |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $2005^{\text {c }}$ | $2006{ }^{\text {c }}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | change |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 29.8 | 30.2 | 31.3 | 31.5 | 30.8 | 30.0 | 29.7 | 28.6 | 27.9 | 29.2 | 27.1 | 25.4 | 25.9 | 24.6 | 25.2 | 23.2 | 21.6 | 23.7 | 22.1 | 19.4 | 17.2 | $-2.2 \mathrm{~s}$ |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 36.9 | 37.0 | 37.9 | 39.2 | 38.1 | 36.7 | 36.0 | 34.2 | 34.2 | 34.3 | 32.6 | 28.9 | 30.7 | 28.4 | 30.5 | 28.0 | 25.5 | 27.2 | 26.1 | 22.3 | 19.3 | -3.0 s |
| Female | 23.0 | 23.5 | 24.4 | 24.0 | 23.6 | 23.5 | 23.7 | 23.0 | 22.1 | 24.2 | 21.6 | 21.5 | 21.5 | 21.3 | 20.2 | 18.4 | 17.6 | 19.7 | 18.1 | 16.6 | 14.9 | -1.7 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 35.2 | 33.9 | 36.2 | 36.3 | 35.4 | 35.7 | 35.9 | 34.0 | 34.5 | 34.6 | 34.3 | 32.3 | 30.8 | 31.5 | 31.3 | 32.1 | 27.4 | 27.5 | 29.2 | 24.0 | 21.5 | -2.5 |
| Complete 4 years | 27.8 | 28.8 | 29.5 | 30.0 | 29.5 | 27.6 | 27.8 | 27.2 | 25.9 | 27.6 | 25.1 | 23.7 | 24.7 | 23.2 | 23.8 | 21.2 | 20.4 | 22.6 | 20.6 | 18.3 | 16.4 | -1.8 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 31.2 | 33.7 | 33.5 | 33.5 | 33.7 | 35.1 | 31.8 | 30.7 | 30.9 | 33.2 | 32.2 | 30.9 | 29.7 | 27.3 | 28.9 | 28.7 | 26.1 | 29.0 | 26.6 | 22.3 | 21.3 | -1.0 |
| Midwest | 34.3 | 31.5 | 31.6 | 32.6 | 31.6 | 33.9 | 34.5 | 33.4 | 32.5 | 30.2 | 29.1 | 26.5 | 28.9 | 25.2 | 28.8 | 24.6 | 24.3 | 24.8 | 22.7 | 20.4 | 16.7 | -3.7 |
| South | 28.6 | 30.2 | 30.6 | 30.7 | 30.0 | 24.9 | 26.6 | 26.8 | 23.7 | 26.1 | 24.2 | 23.9 | 25.4 | 24.7 | 23.1 | 21.0 | 18.8 | 19.6 | 18.6 | 17.9 | 16.4 | -1.5 |
| West | 24.2 | 24.0 | 29.6 | 29.5 | 28.6 | 29.3 | 26.0 | 23.9 | 26.5 | 28.6 | 24.5 | 22.0 | 20.5 | 21.9 | 20.9 | 20.7 | 19.9 | 24.1 | 23.1 | 18.8 | 16.2 | -2.6 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 28.3 | 29.8 | 29.9 | 27.9 | 27.1 | 29.7 | 29.0 | 29.9 | 23.3 | 25.5 | 26.5 | 26.6 | 28.0 | 25.8 | 25.7 | 23.0 | 21.7 | 25.1 | 21.3 | 19.4 | 18.9 | -0.5 |
| Other MSA | 28.4 | 30.3 | 31.1 | 33.1 | 32.2 | 29.3 | 29.0 | 28.0 | 29.8 | 31.9 | 27.4 | 25.0 | 24.2 | 22.5 | 24.1 | 23.6 | 22.5 | 23.3 | 23.3 | 20.1 | 15.3 | -4.8 sss |
| Non-MSA | 34.0 | 30.5 | 33.2 | 32.4 | 32.4 | 31.7 | 31.9 | 28.2 | 30.5 | 28.2 | 27.0 | 24.5 | 26.4 | 28.1 | 27.2 | 22.4 | 19.6 | 22.4 | 20.5 | 17.9 | 19.3 | +1.4 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 26.6 | 24.8 | 22.6 | 26.3 | 27.4 | 25.1 | 24.8 | 22.2 | 23.5 | 22.9 | 19.4 | 25.4 | 20.4 | 21.3 | 23.2 | 20.1 | 17.9 | 23.6 | 21.5 | 19.0 | 17.2 | -1.7 |
| 2.5-3.0 | 31.2 | 28.6 | 30.4 | 30.3 | 30.8 | 29.2 | 30.2 | 28.5 | 27.6 | 28.8 | 28.3 | 25.8 | 27.3 | 23.0 | 24.6 | 24.6 | 21.1 | 23.9 | 23.1 | 20.1 | 17.1 | -3.1 s |
| 3.5-4.0 | 29.5 | 29.8 | 31.0 | 33.2 | 30.5 | 30.5 | 30.3 | 28.6 | 28.4 | 30.9 | 27.6 | 26.5 | 24.8 | 25.1 | 27.6 | 23.3 | 23.2 | 24.3 | 23.9 | 19.2 | 17.4 | -1.8 |
| 4.5-5.0 | 29.9 | 32.4 | 32.4 | 32.3 | 30.6 | 29.9 | 30.9 | 30.9 | 28.6 | 30.5 | 29.4 | 24.0 | 27.5 | 26.2 | 24.4 | 24.2 | 21.4 | 23.6 | 21.4 | 20.7 | 17.9 | -2.8 |
| 5.5-6.0 (High) | 30.7 | 33.1 | 34.9 | 32.4 | 34.2 | 32.7 | 28.6 | 30.6 | 28.7 | 27.8 | 25.2 | 26.3 | 27.1 | 26.4 | 25.6 | 21.2 | 22.1 | 22.8 | 20.3 | 19.0 | 17.6 | -1.4 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 32.3 | 33.4 | 35.1 | 36.4 | 35.7 | 34.6 | 34.5 | 33.7 | 32.4 | 32.5 | 32.5 | 30.4 | 29.7 | 29.9 | 29.0 | 27.6 | 25.9 | 25.7 | 25.6 | 23.8 | 21.2 | -2.6 ss |
| African American | 14.9 | 15.3 | 13.4 | 12.3 | 12.3 | 11.5 | 11.8 | 11.5 | 10.8 | 11.4 | 11.3 | 11.4 | 11.5 | 10.9 | 12.0 | 13.1 | 11.3 | 11.3 | 12.5 | 11.3 | 9.8 | -1.4 |
| Hispanic | 26.6 | 27.1 | 27.6 | 28.1 | 29.3 | 31.0 | 28.4 | 26.4 | 25.9 | 26.0 | 23.9 | 23.3 | 22.5 | 21.5 | 22.6 | 22.1 | 20.8 | 21.8 | 22.4 | 20.4 | 18.5 | -1.9 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $s=.05, \mathrm{ss}=.01, \mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix $B$ for definition of variables in table.
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\text {To }}$ derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

## TABLE 96

## BEER: Trends in 30-Day Prevalence of Use by Subgroups in Grade 8

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014- |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | change |
| Approximate weighted $N=$ | 17,500 | 18,600 | 18,300 | 17,300 | 17,500 | 17,800 | 18,600 | 18,100 | 16,700 | 16,700 | 16,200 | 15,100 | 16,500 | 17,000 | 16,800 | 16,500 | 16,100 | 15,700 | 15,000 | 15,300 | 16,000 | 15,100 | 14,600 | 14,600 | 14,400 |  |
| Total | 16.2 | 16.9 | 17.4 | 18.3 | 18.8 | 18.4 | 16.7 | 16.2 | 16.6 | 15.2 | 15.0 | 12.3 | 12.0 | 14.4 | 12.8 | 12.5 | 12.2 | 11.8 | 10.0 | 10.6 | 9.8 | 7.9 | 6.8 | 6.3 | 7.3 | +0.9 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 19.1 | 18.6 | 19.1 | 21.2 | 20.4 | 19.9 | 18.6 | 17.7 | 19.4 | 16.8 | 16.5 | 12.2 | 12.4 | 14.0 | 12.9 | 13.0 | 11.3 | 12.3 | 10.6 | 11.3 | 10.2 | 8.5 | 6.9 | 6.9 | 8.1 | +1.2 |
| Female | 13.5 | 15.3 | 16.1 | 16.0 | 17.0 | 17.1 | 14.6 | 14.7 | 14.1 | 13.5 | 13.6 | 12.2 | 11.4 | 14.6 | 12.9 | 11.9 | 12.2 | 11.2 | 9.2 | 10.1 | 9.2 | 7.2 | 6.6 | 5.8 | 6.5 | +0.7 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 26.4 | 27.7 | 32.2 | 32.8 | 36.0 | 33.0 | 33.9 | 32.6 | 35.5 | 29.6 | 32.9 | 27.4 | 28.7 | 26.4 | 26.3 | 24.7 | 27.3 | 30.5 | 20.9 | 26.1 | 16.6 | 19.5 | 14.5 | 16.0 | 14.5 | -1.6 |
| Complete 4 years | 14.6 | 15.4 | 15.6 | 16.6 | 16.8 | 16.3 | 14.6 | 14.4 | 14.3 | 13.8 | 12.9 | 11.1 | 10.2 | 13.1 | 11.5 | 11.4 | 10.8 | 10.3 | 9.0 | 9.4 | 9.4 | 7.0 | 6.3 | 5.6 | 6.8 | +1.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 14.0 | 14.0 | 14.9 | 18.6 | 19.3 | 21.7 | 18.4 | 14.7 | 18.5 | 14.2 | 18.7 | 10.8 | 12.3 | 15.1 | 11.4 | 11.4 | 9.5 | 10.4 | 9.2 | 10.4 | 6.8 | 6.8 | 5.0 | 4.6 | 5.8 | +1.3 |
| Midwest | 16.4 | 18.0 | 16.7 | 18.0 | 17.4 | 19.3 | 16.8 | 18.4 | 17.5 | 17.0 | 13.2 | 10.2 | 14.0 | 15.9 | 11.4 | 13.2 | 10.6 | 12.5 | 8.4 | 10.2 | 9.1 | 5.0 | 7.0 | 6.1 | 7.6 | +1.5 |
| South | 17.8 | 18.5 | 19.1 | 18.2 | 20.1 | 16.6 | 15.5 | 16.1 | 17.2 | 14.2 | 14.3 | 14.0 | 11.4 | 14.4 | 15.0 | 13.3 | 14.0 | 14.1 | 12.2 | 12.2 | 10.5 | 8.8 | 8.2 | 6.4 | 7.8 | +1.4 |
| West | 14.9 | 15.1 | 18.0 | 18.8 | 17.6 | 17.8 | 17.2 | 15.1 | 12.6 | 15.7 | 15.3 | 13.9 | 10.3 | 12.2 | 11.4 | 11.4 | 12.0 | 8.9 | 8.8 | 8.6 | 11.7 | 10.1 | 5.6 | 7.6 | 7.1 | -0.6 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 15.0 | 18.7 | 15.1 | 15.2 | 12.0 | 16.2 | 15.0 | 13.8 | 14.3 | 14.0 | 12.0 | 11.5 | 11.0 | 14.2 | 11.4 | 11.9 | 10.3 | 13.0 | 8.9 | 9.0 | 8.2 | 7.4 | 6.6 | 4.7 | 6.8 | +2.0 s |
| Other MSA | 16.1 | 16.8 | 17.6 | 19.4 | 19.1 | 19.6 | 15.9 | 14.3 | 16.5 | 14.1 | 15.5 | 12.4 | 11.9 | 13.9 | 13.6 | 12.1 | 12.3 | 11.3 | 9.5 | 10.9 | 9.9 | 8.6 | 7.5 | 6.5 | 7.5 | +1.0 |
| Non-MSA | 17.8 | 15.4 | 19.8 | 18.3 | 21.8 | 18.8 | 19.6 | 22.7 | 19.4 | 18.8 | 17.2 | 13.2 | 13.5 | 15.6 | 13.1 | 14.3 | 14.6 | 11.3 | 12.5 | 12.3 | 12.0 | 6.9 | 5.9 | 8.1 | 7.5 | -0.6 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 22.0 | 22.5 | 21.5 | 24.4 | 23.9 | 19.7 | 21.6 | 21.9 | 25.4 | 23.2 | 21.3 | 24.1 | 17.1 | 23.7 | 22.6 | 17.3 | 21.0 | 21.3 | 15.0 | 13.6 | 15.4 | 12.1 | 11.8 | 8.6 | 13.7 | +5.1 s |
| 2.5-3.0 | 18.2 | 18.4 | 19.5 | 19.7 | 22.8 | 21.3 | 21.2 | 17.4 | 19.7 | 20.7 | 18.4 | 14.8 | 15.1 | 17.8 | 15.8 | 16.8 | 19.5 | 16.7 | 13.2 | 14.6 | 12.5 | 9.6 | 8.3 | 8.8 | 8.5 | -0.3 |
| 3.5-4.0 | 15.7 | 18.0 | 19.4 | 19.7 | 19.6 | 20.2 | 18.5 | 17.9 | 16.9 | 13.5 | 18.1 | 13.5 | 14.3 | 15.0 | 13.9 | 13.6 | 10.6 | 13.1 | 10.6 | 11.5 | 11.4 | 8.4 | 8.1 | 9.0 | 8.7 | -0.4 |
| 4.5-5.0 | 14.4 | 13.4 | 14.9 | 15.3 | 15.6 | 17.8 | 12.7 | 12.6 | 12.3 | 12.0 | 10.0 | 8.4 | 7.4 | 11.9 | 11.2 | 9.4 | 9.3 | 8.8 | 8.6 | 8.8 | 7.5 | 6.3 | 6.1 | 4.1 | 4.6 | +0.5 |
| 5.5-6.0 (High) | 13.5 | 14.6 | 14.4 | 17.2 | 14.2 | 13.2 | 14.1 | 17.0 | 16.0 | 11.4 | 9.7 | 10.3 | 10.2 | 13.3 | 6.7 | 9.3 | 6.7 | 7.0 | 6.5 | 6.5 | 7.4 | 4.7 | 4.9 | 4.5 | 6.1 | +1.6 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 16.7 | 17.6 | 17.9 | 19.0 | 19.7 | 18.8 | 17.4 | 17.4 | 16.8 | 15.5 | 13.5 | 12.0 | 13.5 | 14.0 | 12.7 | 11.5 | 11.5 | 11.2 | 10.7 | 10.2 | 8.2 | 6.8 | 6.4 | 6.5 | +0.1 |
| African American | - | 12.6 | 13.0 | 15.8 | 14.5 | 11.1 | 9.7 | 8.1 | 9.7 | 9.7 | 7.9 | 7.2 | 7.5 | 8.1 | 7.6 | 8.5 | 9.0 | 7.4 | 6.3 | 5.6 | 5.9 | 5.8 | 4.2 | 3.3 | 3.7 | +0.4 |
| Hispanic | - | 23.9 | 24.2 | 22.2 | 23.3 | 23.7 | 21.8 | 19.9 | 19.5 | 19.8 | 20.7 | 21.8 | 19.6 | 18.4 | 18.3 | 17.1 | 17.8 | 17.8 | 14.9 | 13.3 | 14.0 | 13.8 | 11.3 | 9.0 | 8.8 | -0.2 |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes. Level of significance of diff rounding. See Table S1 fo of $N$ indicated in Table S1 | rence be the num | tween th ber of sub | e two most group cas | t recent c ses. See | classes: s appendix | $=.05, \mathrm{ss}=$ <br> B for defin | $=.01, \mathrm{sss}$ <br> inition of $v$ | $s=.001 . '$ <br> variables in | - ' indica in table. D | ates data $n$ Data based | not availab on one of | ble. Any a of two form | apparent in ms in 1991 | inconsiste $1-1996 ; N$ | ncy betwe $N$ is one ha | een the ch half of $N$ in | hange esti ndicated in | imate and in Table S1 | dhe prev <br> 1. Data ba | alence est ased on on | timates fo ne of four | or the two forms beg | most rece ginning in | nt years is 1997; $N$ | is due to is one third |  |
| Caution: Limited sample sizes (see <br> ${ }^{\text {a }}$ Parental education is an average score | Notes <br> of moth <br> subgroup | above). U | se caution the and fecifie | n in inter | rpreting s | subgroup See appe evious yea | trends. | details. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## TABLE 97

BEER: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10

Percentage who used in last 30 days
2014-



| 31.1 | 28.9 | 28.7 | 30.2 | 29.9 | 30.5 | 30.4 | 28.3 | 29.5 | 30.6 | 28.0 | 24.6 | 23.2 | 26.5 | 24.8 | 26.8 | 24.4 | 22.4 | 22.6 | 22.4 | 19.6 | 19.6 | 18.4 | 17.3 | 15.7 | -1.6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 37.6 | 33.1 | 33.3 | 37.3 | 33.5 | 34.7 | 34.1 | 32.5 | 35.4 | 35.4 | 33.7 | 28.7 | 27.9 | 30.7 | 26.5 | 29.2 | 26.8 | 24.5 | 25.2 | 26.3 | 23.0 | 22.1 | 21.0 | 19.2 | 16.3 | -2.9 |
| 25.2 | 25.1 | 24.2 | 23.3 | 26.2 | 26.7 | 27.1 | 24.3 | 23.8 | 25.6 | 22.9 | 20.9 | 19.3 | 22.3 | 23.1 | 24.0 | 21.8 | 20.6 | 19.8 | 18.4 | 16.1 | 17.3 | 15.7 | 15.8 | 15.2 | -0.6 |
| 39.4 | 37.5 | 37.4 | 41.4 | 41.9 | 44.8 | 43.8 | 40.5 | 43.7 | 42.7 | 42.3 | 37.2 | 30.3 | 36.4 | 36.4 | 39.2 | 39.2 | 38.1 | 38.0 | 36.9 | 31.0 | 27.6 | 26.9 | 28.6 | 24.9 | -3.7 |
| 29.4 | 27.2 | 26.9 | 28.0 | 27.8 | 28.1 | 28.2 | 26.1 | 27.0 | 28.6 | 25.9 | 22.7 | 22.2 | 25.1 | 23.2 | 25.2 | 22.6 | 20.4 | 20.9 | 20.6 | 18.4 | 18.7 | 17.4 | 16.1 | 14.8 | -1.3 |
| 37.1 | 29.4 | 32.0 | 31.9 | 31.7 | 33.1 | 33.2 | 31.0 | 34.7 | 31.7 | 27.0 | 23.8 | 25.6 | 30.4 | 25.2 | 31.4 | 27.3 | 24.9 | 23.3 | 22.3 | 22.9 | 23.6 | 19.7 | 20.2 | 17.2 | -3.0 |
| 31.7 | 29.4 | 29.1 | 31.6 | 31.1 | 30.4 | 30.1 | 27.8 | 29.8 | 33.1 | 29.0 | 25.6 | 23.3 | 22.1 | 26.2 | 25.5 | 24.7 | 23.0 | 21.3 | 21.3 | 16.6 | 16.6 | 14.1 | 13.8 | 13.7 | -0.1 |
| 29.4 | 28.4 | 26.6 | 29.5 | 29.4 | 30.6 | 28.5 | 27.2 | 27.8 | 27.1 | 26.6 | 22.6 | 21.9 | 27.2 | 23.6 | 25.0 | 21.2 | 22.7 | 23.5 | 22.2 | 20.8 | 20.9 | 21.5 | 17.6 | 17.1 | -0.5 |
| 28.4 | 28.8 | 28.7 | 27.5 | 27.3 | 28.1 | 31.1 | 28.1 | 26.6 | 32.6 | 30.6 | 27.6 | 22.6 | 27.0 | 24.4 | 27.2 | 25.8 | 19.7 | 21.8 | 23.8 | 19.0 | 17.6 | 17.7 | 18.0 | 14.2 | -3.8 |
| 31.0 | 30.1 | 28.8 | 28.9 | 23.9 | 28.9 | 28.8 | 24.3 | 29.3 | 30.1 | 25.5 | 22.5 | 21.6 | 23.4 | 21.8 | 25.5 | 24.6 | 21.7 | 22.1 | 22.0 | 18.3 | 21.6 | 16.3 | 16.7 | 15.3 | -1.4 |
| 28.9 | 27.4 | 26.4 | 30.8 | 30.3 | 30.1 | 31.2 | 28.9 | 29.4 | 29.8 | 26.2 | 24.7 | 22.9 | 27.0 | 25.2 | 27.5 | 22.4 | 21.8 | 22.6 | 22.1 | 20.7 | 18.9 | 19.0 | 18.0 | 15.4 | -2.7 |
| 35.2 | 30.8 | 32.8 | 30.0 | 32.2 | 33.0 | 30.5 | 31.4 | 30.0 | 32.7 | 34.4 | 27.1 | 26.1 | 29.3 | 27.9 | 27.3 | 28.7 | 24.8 | 23.1 | 23.5 | 19.6 | 18.2 | 19.8 | 16.5 | 17.3 | +0.8 |
| 33.5 | 27.7 | 33.3 | 30.0 | 34.0 | 28.9 | 28.6 | 29.3 | 26.5 | 26.7 | 26.7 | 22.4 | 26.3 | 28.7 | 28.9 | 27.8 | 28.9 | 29.2 | 26.8 | 30.4 | 25.9 | 23.1 | 20.6 | 23.7 | 19.1 | -4.6 |
| 32.0 | 30.3 | 28.4 | 31.1 | 33.0 | 31.1 | 30.3 | 30.9 | 32.3 | 30.8 | 27.2 | 28.6 | 24.1 | 30.3 | 29.1 | 30.7 | 29.7 | 25.7 | 25.7 | 26.8 | 22.7 | 21.1 | 23.3 | 18.3 | 20.5 | +2.2 |
| 31.4 | 29.9 | 29.0 | 31.3 | 30.1 | 30.9 | 31.3 | 30.0 | 29.5 | 32.3 | 29.0 | 25.1 | 24.3 | 26.2 | 23.8 | 28.4 | 25.4 | 23.5 | 22.8 | 23.3 | 20.6 | 18.8 | 18.0 | 18.4 | 16.7 | -1.7 |
| 29.9 | 27.7 | 28.0 | 30.3 | 28.5 | 29.0 | 31.4 | 25.0 | 27.4 | 32.4 | 27.7 | 22.7 | 21.9 | 26.4 | 24.4 | 23.4 | 21.5 | 20.6 | 20.3 | 18.5 | 16.3 | 19.7 | 16.8 | 14.2 | 13.5 | -0.7 |
| 30.7 | 27.4 | 28.1 | 27.1 | 26.5 | 33.7 | 30.7 | 26.5 | 31.1 | 28.7 | 30.4 | 21.9 | 21.0 | 24.2 | 21.7 | 26.0 | 20.5 | 17.3 | 20.0 | 18.8 | 17.0 | 19.9 | 16.8 | 18.7 | 14.6 | -4.1 |
| - | 31.7 | 30.2 | 31.1 | 32.1 | 32.5 | 32.4 | 31.9 | 32.2 | 33.1 | 31.7 | 28.7 | 27.0 | 27.5 | 28.2 | 28.4 | 27.8 | 25.3 | 23.9 | 23.3 | 21.6 | 21.0 | 20.3 | 19.6 | 18.7 | -0.9 |
| - | 20.9 | 20.3 | 19.0 | 18.8 | 15.9 | 15.6 | 13.1 | 10.0 | 13.5 | 14.8 | 11.6 | 10.2 | 11.3 | 12.5 | 11.9 | 9.7 | 10.0 | 11.7 | 12.5 | 12.2 | 8.2 | 6.9 | 6.9 | 7.2 | +0.4 |
| - | 32.2 | 29.6 | 29.3 | 31.2 | 31.9 | 31.3 | 29.8 | 28.3 | 28.9 | 30.7 | 28.6 | 25.1 | 27.8 | 31.3 | 30.7 | 29.3 | 28.2 | 28.0 | 29.9 | 28.3 | 24.4 | 23.3 | 20.5 | 18.2 | -2.2 |

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

rounding. See Table S 2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in $1991-1996 ; N$ is one half of $N$ indicated in Table S2. Data based on one of four forms beginning in $1997 ; N$ is one third of $N$ indicated in Table S 2 .
Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

${ }^{6}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

# TABLE 98 

BEER: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | cont.) |
| Approximate weighted $N=$ | - | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | - | 59.8 | 62.1 | 62.3 | 63.7 | 62.9 | 62.7 | 60.3 | 61.7 | 59.5 | 56.7 | 55.5 | 56.2 | 53.3 | 51.4 | 47.2 | 47.2 | 42.0 | 43.4 | 42.6 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 68.6 | 73.1 | 73.0 | 74.0 | 74.3 | 71.4 | 68.3 | 69.7 | 67.4 | 64.5 | 64.3 | 64.9 | 61.8 | 59.7 | 55.7 | 55.3 | 50.1 | 50.0 | 51.2 |  |
| Female | - | 51.3 | 52.8 | 52.7 | 54.5 | 52.4 | 53.9 | 52.7 | 54.0 | 51.8 | 49.4 | 47.9 | 48.1 | 46.3 | 43.4 | 38.0 | 39.3 | 34.6 | 37.2 | 35.6 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 62.1 | 64.6 | 65.2 | 65.7 | 68.3 | 65.0 | 64.6 | 62.4 | 62.7 | 59.8 | 54.2 | 58.2 | 57.3 | 55.5 | 46.5 | 52.4 | 48.8 | 48.2 | 47.1 |  |
| Complete 4 years | - | 57.6 | 60.3 | 59.5 | 61.6 | 58.4 | 61.0 | 57.4 | 61.1 | 57.4 | 55.1 | 55.7 | 55.1 | 51.8 | 49.4 | 47.5 | 45.2 | 39.9 | 41.5 | 41.6 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 64.9 | 65.9 | 64.7 | 71.9 | 67.6 | 67.1 | 65.7 | 68.3 | 62.6 | 64.4 | 51.5 | 56.8 | 54.8 | 54.2 | 52.7 | 49.5 | 40.8 | 47.0 | 43.3 |  |
| Midwest | - | 65.4 | 66.9 | 68.3 | 66.1 | 64.9 | 67.5 | 66.1 | 66.6 | 66.8 | 57.4 | 66.3 | 61.4 | 59.8 | 58.5 | 50.3 | 53.5 | 49.1 | 46.3 | 48.0 |  |
| South | - | 53.2 | 55.3 | 58.4 | 59.2 | 60.3 | 57.5 | 53.0 | 56.5 | 53.7 | 51.0 | 48.6 | 52.1 | 47.6 | 46.1 | 42.0 | 41.1 | 39.5 | 43.0 | 40.4 |  |
| West | - | 52.8 | 59.4 | 54.2 | 56.1 | 57.7 | 56.9 | 52.8 | 53.8 | 55.3 | 56.4 | 54.4 | 54.8 | 52.7 | 48.5 | 45.4 | 46.0 | 36.7 | 37.0 | 38.2 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 62.5 | 64.2 | 62.8 | 65.3 | 67.7 | 63.8 | 63.3 | 63.1 | 58.8 | 56.0 | 55.1 | 56.9 | 52.6 | 50.1 | 52.3 | 44.4 | 42.3 | 44.0 | 42.8 |  |
| Other MSA | - | 58.6 | 62.0 | 62.4 | 62.3 | 62.1 | 61.9 | 58.6 | 59.4 | 56.6 | 56.8 | 55.1 | 56.4 | 53.0 | 51.6 | 47.3 | 47.6 | 40.3 | 42.0 | 39.4 |  |
| Non-MSA | - | 59.3 | 60.7 | 61.7 | 64.4 | 60.5 | 63.0 | 60.0 | 63.6 | 63.7 | 57.3 | 56.3 | 55.4 | 54.3 | 52.1 | 42.4 | 48.8 | 45.1 | 45.3 | 47.6 |  |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 58.5 | 48.3 | 54.6 | 52.9 | 55.9 | 54.7 | 56.8 | 58.8 | 51.1 | 52.2 | 46.8 | 55.8 | 47.1 | 45.3 | 42.2 | 48.1 | 36.6 | 41.1 | 37.0 |  |
| 2.5-3.0 | - | 62.7 | 64.8 | 63.6 | 64.5 | 66.1 | 65.4 | 58.5 | 59.8 | 62.4 | 56.8 | 54.6 | 53.6 | 51.9 | 52.4 | 47.5 | 46.7 | 41.4 | 43.7 | 44.4 |  |
| 3.5-4.0 | - | 58.4 | 66.0 | 62.7 | 67.1 | 64.4 | 64.0 | 63.9 | 62.3 | 61.2 | 57.9 | 56.0 | 56.0 | 51.5 | 52.2 | 45.8 | 48.4 | 40.7 | 44.4 | 42.2 |  |
| 4.5-5.0 | - | 62.6 | 64.4 | 64.7 | 68.4 | 58.4 | 60.1 | 60.0 | 66.2 | 61.9 | 60.5 | 57.6 | 59.9 | 58.2 | 51.4 | 49.3 | 46.4 | 43.8 | 41.9 | 41.1 |  |
| 5.5-6.0 (High) | - | 64.1 | 69.3 | 68.3 | 63.6 | 69.3 | 68.9 | 68.3 | 65.9 | 54.2 | 55.4 | 62.5 | 57.7 | 57.4 | 53.2 | 53.4 | 46.1 | 47.0 | 47.7 | 46.6 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 63.8 | 65.2 | 65.9 | 66.3 | 66.3 | 65.4 | 64.6 | 64.6 | 62.2 | 59.9 | 59.6 | 59.1 | 57.0 | 54.1 | 51.6 | 48.3 | 46.0 | 46.5 |  |
| African American | - | - | 38.7 | 36.4 | 37.4 | 38.7 | 38.8 | 37.2 | 39.2 | 36.9 | 33.1 | 32.7 | 28.6 | 30.3 | 32.6 | 28.4 | 25.3 | 24.2 | 28.0 | 29.9 |  |
| Hispanic | - | - | 52.7 | 54.3 | 52.3 | 52.5 | 47.7 | 47.5 | 43.4 | 40.7 | 46.5 | 50.9 | 55.4 | 49.2 | 40.4 | 36.6 | 40.3 | 44.7 | 39.8 | 40.5 |  |

[^16]
## TABLE 98 (cont.)

BEER: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

|  | P |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | $\underline{2001}$ | $\underline{2002}$ | 2003 | 2004 | $\underline{2005}$ | $\underline{2006}$ | 2007 | 2008 | $\underline{2009}$ | 2010 | 2011 | 2012 | $\underline{2013}$ | 2014 | 2015 |  |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 44.9 | 46.9 | 44.4 | 45.6 | 42.7 | 42.7 | 41.5 | 39.7 | 37.8 | 38.3 | 38.0 | 35.5 | 36.6 | 33.7 | 34.9 | 31.7 | 29.0 | 32.2 | 30.8 | 28.6 | 25.4 | -3.2 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 53.0 | 53.5 | 49.7 | 55.0 | 48.2 | 51.7 | 50.9 | 44.3 | 44.5 | 44.1 | 47.3 | 39.7 | 43.7 | 40.7 | 42.2 | 39.7 | 35.2 | 39.1 | 36.9 | 33.1 | 28.9 | -4.2 |
| Female | 37.4 | 40.2 | 39.9 | 37.0 | 36.9 | 33.9 | 32.1 | 34.4 | 31.7 | 32.1 | 30.4 | 31.1 | 29.3 | 27.7 | 28.7 | 23.0 | 22.4 | 25.6 | 24.6 | 24.4 | 22.4 | -2.0 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 50.1 | 46.2 | 44.6 | 49.6 | 47.5 | 42.4 | 54.1 | 45.7 | 39.4 | 44.0 | 45.1 | 46.2 | 39.0 | 43.7 | 38.5 | 40.6 | 35.8 | 33.9 | 41.5 | 31.4 | 27.1 | -4.3 |
| Complete 4 years | 42.8 | 47.0 | 44.4 | 44.4 | 41.7 | 42.4 | 38.4 | 37.9 | 37.2 | 36.6 | 36.6 | 33.4 | 35.7 | 31.7 | 34.1 | 30.2 | 27.5 | 31.9 | 28.4 | 27.6 | 25.2 | -2.5 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 47.0 | 56.9 | 47.5 | 52.6 | 54.3 | 48.9 | 47.2 | 43.4 | 41.9 | 42.6 | 41.3 | 42.9 | 44.1 | 39.7 | 42.6 | 41.2 | 30.5 | 40.7 | 35.7 | 32.4 | 38.1 | +5.7 |
| Midwest | 49.7 | 48.1 | 43.3 | 44.6 | 45.4 | 47.6 | 48.1 | 42.9 | 43.1 | 41.4 | 40.5 | 35.8 | 39.2 | 32.7 | 37.8 | 31.8 | 31.2 | 31.1 | 33.6 | 28.8 | 22.2 | -6.6 |
| South | 43.8 | 44.4 | 43.3 | 43.2 | 36.6 | 35.1 | 33.6 | 35.1 | 32.0 | 34.2 | 33.8 | 34.2 | 34.2 | 33.4 | 31.0 | 29.0 | 25.5 | 26.4 | 28.2 | 26.5 | 20.8 | -5.8 s |
| West | 37.8 | 38.8 | 44.5 | 45.5 | 40.2 | 43.5 | 39.9 | 39.8 | 36.9 | 36.1 | 38.8 | 31.3 | 31.7 | 31.8 | 30.5 | 28.9 | 31.0 | 35.1 | 27.9 | 28.7 | 26.7 | -2.0 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 45.9 | 49.1 | 45.5 | 42.1 | 39.9 | 45.2 | 38.0 | 40.5 | 36.3 | 34.2 | 37.9 | 35.1 | 40.7 | 36.9 | 39.5 | 31.6 | 30.9 | 36.2 | 30.7 | 30.0 | 29.4 | -0.6 |
| Other MSA | 43.7 | 46.9 | 45.0 | 47.6 | 42.8 | 40.7 | 42.6 | 38.8 | 38.9 | 38.9 | 38.4 | 37.2 | 32.8 | 31.5 | 31.7 | 33.1 | 27.9 | 32.4 | 32.5 | 29.0 | 23.4 | -5.6 s |
| Non-MSA | 46.0 | 45.3 | 41.9 | 45.6 | 45.4 | 43.2 | 43.3 | 40.5 | 37.5 | 41.4 | 37.1 | 33.0 | 38.2 | 35.0 | 36.6 | 28.3 | 29.0 | 26.0 | 26.9 | 25.8 | 23.7 | -2.1 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 43.1 | 31.2 | 30.4 | 37.0 | 35.4 | 37.2 | 39.1 | 41.6 | 30.9 | 34.1 | 32.9 | 27.5 | 32.8 | 28.5 | 32.2 | 24.1 | 28.7 | 32.1 | 24.5 | 26.3 | 28.2 | +1.9 |
| 2.5-3.0 | 44.0 | 42.4 | 41.5 | 42.8 | 43.0 | 37.4 | 48.0 | 36.6 | 36.2 | 38.0 | 35.8 | 38.1 | 35.2 | 34.7 | 30.4 | 34.8 | 28.9 | 30.9 | 33.7 | 26.6 | 26.2 | -0.4 |
| 3.5-4.0 | 42.8 | 48.2 | 46.3 | 48.9 | 42.5 | 45.1 | 35.8 | 40.9 | 39.9 | 43.0 | 38.4 | 35.7 | 36.8 | 30.9 | 36.9 | 31.5 | 26.2 | 31.4 | 33.2 | 30.5 | 22.7 | -7.8 |
| 4.5-5.0 | 47.1 | 47.1 | 47.7 | 48.9 | 40.0 | 43.9 | 43.6 | 39.9 | 38.4 | 36.1 | 42.4 | 35.3 | 39.4 | 33.8 | 38.9 | 34.3 | 32.3 | 33.6 | 32.7 | 25.9 | 28.3 | +2.5 |
| 5.5-6.0 (High) | 49.6 | 58.0 | 49.9 | 44.5 | 51.8 | 52.0 | 42.3 | 45.2 | 41.4 | 38.7 | 37.6 | 38.4 | 38.8 | 43.1 | 33.7 | 28.2 | 29.5 | 34.7 | 26.1 | 39.5 | 23.2 | -16.3 sss |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 47.8 | 50.1 | 50.7 | 49.9 | 47.7 | 45.8 | 46.7 | 45.4 | 43.1 | 42.1 | 42.3 | 41.8 | 41.0 | 39.7 | 37.8 | 36.4 | 34.0 | 33.8 | 34.5 | 34.0 | 31.5 | -2.5 |
| African American | 25.6 | 28.4 | 25.5 | 22.8 | 22.3 | 21.7 | 20.6 | 16.9 | 14.0 | 15.7 | 18.0 | 14.8 | 13.6 | 14.6 | 19.3 | 18.9 | 12.0 | 12.2 | 15.2 | 13.4 | 11.1 | -2.2 |
| Hispanic | 41.7 | 41.3 | 39.8 | 39.0 | 43.6 | 45.3 | 42.6 | 40.8 | 37.2 | 36.7 | 39.2 | 35.4 | 32.7 | 31.2 | 31.6 | 32.1 | 32.7 | 35.5 | 32.9 | 30.7 | 29.6 | -1.1 |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  <br>  based on one of six forms beginning in 1989; $N$ is one sixth of $N$ indicated in Table S3. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## TABLE 99

BEER: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 8

Percentage reporting 5+ drinks in a row on one or more occasions
2014-



$\begin{array}{lllll}\text { Hispanic } & - & 12.7 & 13.2 & 12.1 \\ \text { Source. } & \text { The Monitoring the Future study, the University of Michigan. }\end{array}$

 in Table S1.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.
Parental education is an average score of mother's education and father's education. See appendix B for details,
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

## TABLE 100

BEER: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 10

Percentage reporting $5+$ drinks in a row on one or more occasions
2014-
$\underline{19} 1 \underline{1991} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015} \quad \underline{\text { change }}$


| Total | 16.4 | 15.1 | 16.1 | 17.0 | 17.1 | 17.9 | 17.6 | 16.0 | 18.1 | 17.5 | 16.3 | 14.1 | 13.8 | 13.6 | 13.1 | 14.5 | 13.7 | 10.8 | 11.3 | 10.9 | 10.3 | 10.4 | 9.1 | 8.2 | 7.4 | -0.7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 21.7 | 18.9 | 20.4 | 23.0 | 21.1 | 22.5 | 21.2 | 20.7 | 24.0 | 22.5 | 22.2 | 16.7 | 18.3 | 17.1 | 15.2 | 16.3 | 16.5 | 12.8 | 13.6 | 14.0 | 12.7 | 12.9 | 10.8 | 9.9 | 8.6 | -1.3 |
| Female | 11.7 | 11.7 | 11.8 | 11.1 | 13.1 | 13.7 | 14.4 | 11.8 | 12.5 | 12.7 | 11.2 | 11.7 | 9.9 | 10.4 | 10.8 | 12.3 | 10.7 | 9.2 | 9.1 | 8.0 | 7.7 | 8.1 | 7.1 | 6.6 | 6.2 | -0.3 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 25.4 | 22.8 | 25.4 | 26.6 | 28.2 | 30.7 | 31.6 | 26.1 | 29.9 | 26.8 | 31.2 | 26.2 | 22.7 | 20.5 | 23.0 | 26.1 | 26.4 | 21.2 | 24.3 | 23.9 | 20.0 | 18.3 | 15.2 | 18.3 | 16.4 | -2.0 |
| Complete 4 years | 14.5 | 13.5 | 14.2 | 15.0 | 15.3 | 15.8 | 15.4 | 14.2 | 16.2 | 15.9 | 14.1 | 12.2 | 12.6 | 12.7 | 11.8 | 12.8 | 12.3 | 9.6 | 10.0 | 9.4 | 9.3 | 9.7 | 8.4 | 7.0 | 6.5 | -0.5 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 19.0 | 14.6 | 17.1 | 18.4 | 17.4 | 19.9 | 17.5 | 18.8 | 21.5 | 16.4 | 15.2 | 12.6 | 16.4 | 16.9 | 15.2 | 17.7 | 14.7 | 12.0 | 12.1 | 10.3 | 12.2 | 12.7 | 8.8 | 9.0 | 8.7 | -0.3 |
| Midwest | 16.5 | 16.7 | 17.3 | 18.2 | 18.3 | 18.8 | 18.4 | 16.3 | 18.3 | 20.9 | 16.4 | 14.9 | 13.5 | 10.9 | 14.6 | 14.8 | 14.2 | 11.2 | 11.0 | 10.9 | 8.0 | 9.9 | 6.4 | 6.2 | 6.4 | +0.2 |
| South | 15.4 | 13.9 | 14.9 | 16.9 | 16.9 | 17.7 | 16.6 | 15.4 | 17.5 | 15.7 | 15.9 | 13.2 | 12.4 | 12.8 | 10.8 | 12.7 | 12.5 | 11.3 | 11.6 | 10.7 | 11.2 | 11.1 | 12.0 | 9.0 | 8.0 | -1.0 |
| West | 15.9 | 15.5 | 15.2 | 13.5 | 15.5 | 15.1 | 18.3 | 14.0 | 15.5 | 16.9 | 18.3 | 16.0 | 14.0 | 15.0 | 12.4 | 13.7 | 13.9 | 9.0 | 10.4 | 11.8 | 10.1 | 8.0 | 8.4 | 8.3 | 6.5 | -1.8 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 16.0 | 14.8 | 15.2 | 14.5 | 12.7 | 16.4 | 15.9 | 12.8 | 18.0 | 16.9 | 13.0 | 12.0 | 13.0 | 11.5 | 10.6 | 13.3 | 12.7 | 10.2 | 10.4 | 10.6 | 9.5 | 11.4 | 7.5 | 7.2 | 6.8 | -0.4 |
| Other MSA | 15.8 | 13.9 | 13.9 | 17.0 | 17.2 | 17.6 | 17.6 | 15.9 | 17.3 | 16.3 | 15.7 | 13.5 | 13.1 | 14.4 | 13.8 | 15.3 | 12.5 | 10.9 | 11.5 | 10.5 | 10.6 | 9.4 | 9.3 | 8.1 | 7.1 | -1.0 |
| Non-MSA | 17.9 | 17.7 | 20.9 | 18.7 | 19.6 | 20.1 | 19.1 | 19.6 | 20.1 | 20.1 | 21.2 | 18.1 | 17.0 | 14.7 | 14.6 | 14.1 | 17.8 | 11.7 | 12.2 | 12.3 | 10.6 | 11.1 | 10.8 | 10.1 | 9.6 | -0.6 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 21.3 | 15.6 | 18.9 | 19.2 | 20.3 | 20.5 | 18.1 | 12.8 | 14.2 | 16.7 | 17.9 | 13.8 | 19.0 | 14.1 | 15.1 | 16.4 | 19.2 | 15.1 | 17.0 | 19.0 | 16.0 | 17.5 | 13.5 | 10.9 | 10.3 | -0.5 |
| 2.5-3.0 | 18.5 | 16.6 | 15.3 | 18.5 | 19.7 | 18.8 | 18.0 | 19.0 | 20.5 | 16.5 | 15.9 | 15.8 | 14.8 | 17.1 | 16.3 | 17.8 | 18.1 | 13.2 | 13.7 | 11.7 | 12.1 | 11.2 | 10.8 | 11.1 | 8.4 | -2.8 |
| 3.5-4.0 | 15.0 | 15.6 | 16.5 | 16.7 | 17.4 | 18.5 | 18.9 | 15.8 | 17.6 | 17.9 | 17.8 | 14.4 | 13.7 | 13.9 | 13.6 | 14.5 | 13.9 | 10.9 | 12.6 | 11.4 | 10.5 | 9.3 | 9.3 | 8.8 | 8.7 | -0.1 |
| 4.5-5.0 | 15.1 | 14.0 | 16.3 | 16.8 | 16.0 | 15.9 | 16.5 | 14.9 | 17.3 | 19.0 | 14.3 | 12.5 | 13.1 | 12.0 | 11.6 | 12.3 | 11.0 | 9.5 | 8.4 | 8.9 | 9.2 | 10.2 | 7.7 | 6.0 | 6.6 | +0.6 |
| 5.5-6.0 (High) | 15.4 | 13.1 | 15.3 | 14.5 | 13.8 | 18.3 | 16.1 | 16.2 | 19.3 | 16.8 | 17.5 | 13.1 | 11.8 | 13.7 | 11.3 | 14.3 | 10.6 | 7.6 | 9.6 | 7.9 | 7.6 | 10.2 | 7.6 | 7.2 | 6.0 | -1.2 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 16.7 | 16.4 | 17.4 | 18.1 | 19.0 | 19.3 | 18.6 | 19.7 | 19.9 | 18.1 | 16.5 | 16.1 | 15.5 | 15.1 | 15.8 | 15.7 | 13.7 | 12.2 | 11.4 | 10.7 | 11.0 | 10.1 | 9.4 | 8.8 | -0.6 |
| African American | - | 9.8 | 10.1 | 9.3 | 8.7 | 6.5 | 6.6 | 5.5 | 4.0 | 6.2 | 6.8 | 6.1 | 4.7 | 4.1 | 4.2 | 3.8 | 3.7 | 3.7 | 4.0 | 4.4 | 4.2 | 3.1 | 3.1 | 3.0 | 3.2 | +0.2 |
| Hispanic | - | 17.2 | 16.1 | 16.8 | 18.6 | 19.7 | 19.5 | 16.9 | 14.8 | 17.5 | 20.3 | 17.5 | 16.2 | 17.5 | 16.5 | 16.0 | 16.6 | 15.7 | 14.7 | 17.2 | 17.1 | 14.3 | 12.6 | 8.9 | 7.3 | -1.5 |


| Hispanic | - | 17.2 | 16.1 | 16.8 |
| :--- | :--- | :--- | :--- | :--- |
| Source. | The Monitoring the Future study, the University of Michigan. |  |  |  |


 in Table S 2.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends,
Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 101
BEER: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

|  | Percentage reporting 5+ drinks in a row on one or more occasions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\rightarrow$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | cont.) |
| Approximate weighted $N=$ | - | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | - | 33.0 | 35.1 | 35.4 | 36.4 | 36.6 | 38.0 | 37.6 | 38.1 | 36.2 | 32.0 | 33.1 | 33.8 | 31.0 | 31.3 | 27.0 | 28.5 | 25.4 | 25.5 | 24.6 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 45.6 | 49.0 | 49.8 | 50.6 | 51.1 | 49.4 | 48.5 | 49.8 | 47.7 | 42.6 | 45.4 | 45.4 | 41.5 | 39.5 | 37.1 | 37.0 | 34.0 | 34.2 | 35.7 |  |
| Female | - | 21.4 | 23.5 | 22.6 | 24.2 | 23.9 | 26.5 | 27.3 | 27.4 | 25.0 | 22.4 | 22.4 | 23.1 | 22.2 | 23.8 | 16.5 | 20.1 | 17.6 | 18.1 | 15.5 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 37.7 | 39.2 | 41.6 | 39.5 | 43.5 | 42.8 | 42.1 | 43.1 | 41.2 | 35.5 | 36.1 | 37.8 | 36.9 | 37.7 | 29.0 | 35.1 | 32.8 | 30.2 | 29.6 |  |
| Complete 4 years | - | 27.8 | 31.0 | 29.4 | 33.3 | 30.9 | 34.2 | 34.2 | 34.3 | 33.6 | 29.8 | 30.8 | 31.7 | 28.4 | 28.5 | 26.0 | 26.0 | 23.3 | 23.8 | 23.4 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 39.0 | 35.3 | 36.5 | 41.9 | 41.4 | 42.1 | 40.0 | 37.9 | 39.8 | 35.5 | 32.6 | 32.1 | 32.7 | 32.1 | 27.4 | 27.8 | 25.7 | 28.5 | 23.4 |  |
| Midwest | - | 35.8 | 37.6 | 39.9 | 39.0 | 42.3 | 43.6 | 45.3 | 45.1 | 43.7 | 34.2 | 40.8 | 41.3 | 38.5 | 38.2 | 31.4 | 34.7 | 32.5 | 27.6 | 28.3 |  |
| South | - | 26.6 | 33.9 | 31.8 | 34.0 | 30.5 | 33.9 | 31.7 | 35.1 | 31.5 | 26.6 | 29.4 | 30.7 | 25.7 | 27.5 | 23.8 | 24.2 | 22.9 | 25.2 | 24.8 |  |
| West | - | 31.0 | 31.6 | 32.0 | 28.3 | 31.1 | 28.5 | 28.1 | 31.3 | 29.4 | 33.8 | 27.5 | 29.8 | 28.5 | 27.4 | 25.1 | 27.3 | 18.4 | 20.8 | 19.7 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 32.8 | 34.4 | 34.4 | 35.0 | 40.9 | 38.9 | 36.2 | 37.4 | 34.5 | 31.2 | 33.9 | 32.3 | 29.6 | 27.3 | 32.0 | 24.7 | 26.0 | 23.8 | 23.6 |  |
| Other MSA | - | 33.9 | 35.4 | 35.7 | 36.3 | 33.9 | 37.7 | 36.6 | 36.6 | 33.2 | 30.2 | 31.5 | 34.5 | 30.9 | 32.3 | 26.9 | 28.8 | 24.2 | 24.8 | 22.6 |  |
| Non-MSA | - | 32.1 | 35.2 | 35.7 | 37.6 | 37.0 | 37.6 | 39.8 | 40.6 | 41.4 | 35.1 | 35.0 | 33.9 | 32.6 | 32.9 | 22.6 | 31.0 | 27.2 | 28.1 | 28.7 |  |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 30.7 | 31.9 | 33.6 | 32.8 | 31.1 | 32.3 | 35.0 | 38.4 | 26.8 | 27.4 | 28.5 | 32.9 | 31.3 | 26.9 | 28.1 | 34.9 | 23.4 | 27.3 | 23.7 |  |
| 2.5-3.0 | - | 37.5 | 36.4 | 37.8 | 38.0 | 38.8 | 42.9 | 37.5 | 37.4 | 39.2 | 33.6 | 34.2 | 34.3 | 31.0 | 32.2 | 26.7 | 29.2 | 26.6 | 26.1 | 25.3 |  |
| 3.5-4.0 | - | 32.9 | 34.8 | 34.4 | 36.5 | 37.6 | 39.2 | 41.6 | 39.1 | 37.1 | 32.1 | 32.9 | 34.9 | 29.4 | 32.8 | 24.9 | 29.4 | 25.2 | 26.6 | 24.2 |  |
| 4.5-5.0 | - | 33.9 | 34.1 | 36.2 | 38.2 | 36.0 | 31.7 | 35.3 | 39.1 | 39.9 | 35.9 | 34.4 | 34.7 | 32.8 | 31.2 | 27.7 | 26.2 | 23.9 | 24.1 | 24.1 |  |
| 5.5-6.0 (High) | - | 27.2 | 38.0 | 28.7 | 35.5 | 37.6 | 38.5 | 38.9 | 36.5 | 30.2 | 27.4 | 33.8 | 29.7 | 31.4 | 26.5 | 32.3 | 25.7 | 26.9 | 26.1 | 26.0 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 35.5 | 36.8 | 37.6 | 38.5 | 40.1 | 40.9 | 40.8 | 40.0 | 37.1 | 35.3 | 35.8 | 35.2 | 34.4 | 32.5 | 30.6 | 29.6 | 27.6 | 27.3 |  |
| African American | - | - | 18.8 | 19.5 | 19.4 | 17.7 | 16.4 | 16.9 | 18.1 | 18.9 | 15.5 | 13.2 | 13.6 | 16.1 | 18.5 | 13.5 | 10.2 | 13.1 | 15.5 | 15.4 |  |
| Hispanic | - | - | 34.4 | 33.5 | 31.5 | 32.7 | 30.8 | 27.6 | 27.9 | 27.4 | 24.6 | 29.4 | 32.8 | 27.5 | 22.0 | 20.6 | 23.8 | 27.2 | 24.8 | 24.9 |  |

[^17]
# TABLE 101 (cont.) 

BEER: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12


TABLE 102
LIQUOR: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | cont.) |
| Approximate weighted $N=$ | - | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | - | 44.1 | 45.0 | 48.2 | 47.3 | 47.9 | 44.6 | 45.2 | 46.4 | 42.3 | 40.0 | 41.0 | 39.0 | 35.6 | 35.7 | 30.8 | 31.3 | 28.6 | 31.4 | 28.0 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 44.4 | 44.7 | 48.9 | 48.5 | 48.8 | 45.3 | 45.2 | 48.8 | 43.3 | 40.3 | 43.7 | 42.8 | 38.5 | 39.6 | 36.9 | 34.9 | 32.0 | 36.4 | 32.8 |  |
| Female | - | 43.8 | 45.3 | 47.6 | 46.6 | 47.4 | 44.3 | 45.1 | 43.7 | 40.8 | 39.5 | 38.6 | 35.4 | 33.6 | 32.1 | 24.6 | 28.0 | 25.9 | 27.3 | 23.2 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 44.6 | 47.8 | 49.3 | 46.1 | 51.4 | 46.9 | 47.5 | 47.4 | 44.6 | 41.0 | 38.9 | 39.4 | 36.8 | 38.1 | 30.6 | 37.0 | 31.9 | 37.3 | 28.3 |  |
| Complete 4 years | - | 43.8 | 42.5 | 47.7 | 48.5 | 45.1 | 43.0 | 43.6 | 45.3 | 40.6 | 39.6 | 41.8 | 39.0 | 35.0 | 35.0 | 30.4 | 29.0 | 27.4 | 29.9 | 28.1 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 52.5 | 47.4 | 47.8 | 56.7 | 53.2 | 49.5 | 50.8 | 50.8 | 46.4 | 42.1 | 37.2 | 43.3 | 36.1 | 40.3 | 34.5 | 36.6 | 25.8 | 32.4 | 25.9 |  |
| Midwest | - | 47.0 | 49.7 | 53.7 | 45.4 | 46.5 | 47.2 | 49.1 | 50.5 | 45.6 | 40.1 | 49.8 | 42.2 | 42.2 | 40.5 | 31.0 | 33.5 | 33.5 | 32.1 | 29.0 |  |
| South | - | 37.6 | 39.8 | 46.0 | 43.6 | 48.5 | 38.8 | 38.7 | 43.3 | 38.5 | 37.1 | 35.9 | 34.6 | 30.4 | 33.0 | 29.6 | 28.1 | 27.1 | 34.7 | 28.1 |  |
| West | - | 38.3 | 41.3 | 42.0 | 45.0 | 42.9 | 43.2 | 40.0 | 38.4 | 39.6 | 42.1 | 39.6 | 37.4 | 35.0 | 30.0 | 28.5 | 29.0 | 26.3 | 24.0 | 28.2 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 47.3 | 45.4 | 49.3 | 52.0 | 51.7 | 44.4 | 48.5 | 48.1 | 40.8 | 37.7 | 41.2 | 39.9 | 36.0 | 36.4 | 33.8 | 30.4 | 29.8 | 32.2 | 30.3 |  |
| Other MSA | - | 44.7 | 46.0 | 48.3 | 47.1 | 48.4 | 45.9 | 45.6 | 45.5 | 40.9 | 39.3 | 39.9 | 40.5 | 36.3 | 33.5 | 31.1 | 33.1 | 27.4 | 30.4 | 26.5 |  |
| Non-MSA | - | 41.4 | 43.3 | 47.2 | 44.1 | 44.8 | 43.2 | 42.1 | 46.1 | 45.1 | 42.6 | 42.4 | 35.5 | 34.0 | 40.3 | 27.7 | 29.1 | 30.0 | 32.7 | 28.1 |  |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 40.8 | 38.2 | 37.3 | 38.2 | 44.2 | 43.1 | 40.3 | 41.6 | 33.1 | 36.2 | 36.1 | 32.2 | 33.5 | 32.1 | 25.7 | 29.7 | 25.4 | 29.1 | 23.6 |  |
| 2.5-3.0 | - | 46.7 | 45.9 | 49.8 | 46.6 | 47.8 | 43.5 | 44.8 | 44.7 | 46.3 | 37.9 | 38.1 | 36.0 | 34.6 | 32.1 | 29.5 | 32.6 | 29.9 | 29.4 | 28.2 |  |
| 3.5-4.0 | - | 44.7 | 47.3 | 51.9 | 51.7 | 47.5 | 46.6 | 48.0 | 46.5 | 42.0 | 39.2 | 42.3 | 38.2 | 33.1 | 38.3 | 31.6 | 33.6 | 29.0 | 34.1 | 25.8 |  |
| 4.5-5.0 | - | 47.9 | 45.6 | 49.1 | 51.7 | 48.7 | 40.7 | 43.6 | 50.0 | 44.9 | 48.0 | 43.9 | 43.4 | 38.7 | 36.9 | 34.2 | 27.4 | 25.9 | 32.2 | 29.3 |  |
| 5.5-6.0 (High) | - | 46.6 | 53.4 | 54.2 | 49.3 | 53.4 | 53.8 | 54.2 | 55.2 | 40.4 | 40.9 | 47.4 | 45.7 | 39.4 | 37.7 | 33.8 | 33.5 | 33.1 | 29.9 | 32.0 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 47.5 | 49.5 | 50.3 | 50.1 | 48.9 | 48.2 | 49.0 | 47.3 | 44.1 | 43.5 | 43.4 | 41.1 | 39.8 | 37.7 | 35.0 | 32.9 | 32.5 | 32.6 |  |
| African American | - | - | 21.2 | 19.9 | 23.3 | 27.5 | 25.1 | 21.5 | 25.3 | 23.7 | 18.5 | 17.4 | 15.0 | 16.0 | 16.8 | 14.4 | 14.1 | 15.1 | 17.5 | 17.1 |  |
| Hispanic | - | - | 47.7 | 48.8 | 43.3 | 47.2 | 45.6 | 41.2 | 35.6 | 35.4 | 42.1 | 40.4 | 36.9 | 31.6 | 24.6 | 21.0 | 23.2 | 29.2 | 28.9 | 26.3 |  |

(Table continued on next page.)

## TABLE 102 (cont.)

## LIQUOR: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | 2010 | 2011 | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 34.3 | 34.7 | 34.6 | 37.3 | 34.3 | 36.0 | 35.1 | 36.0 | 34.3 | 35.6 | 36.4 | 34.2 | 34.1 | 32.4 | 33.2 | 29.8 | 29.8 | 31.2 | 31.0 | 28.1 | 26.1 | -2.0 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 38.2 | 36.4 | 36.3 | 41.2 | 38.0 | 41.7 | 35.6 | 37.9 | 36.1 | 39.3 | 38.4 | 33.7 | 36.2 | 33.8 | 35.2 | 31.9 | 31.1 | 32.3 | 31.8 | 29.2 | 26.0 | -3.2 |
| Female | 30.9 | 32.6 | 33.4 | 33.3 | 30.0 | 30.7 | 33.7 | 33.8 | 32.9 | 32.2 | 34.9 | 33.9 | 31.4 | 30.7 | 30.9 | 27.3 | 28.6 | 30.4 | 29.8 | 27.6 | 26.3 | -1.3 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 36.8 | 35.8 | 34.2 | 38.3 | 35.0 | 38.1 | 40.4 | 42.5 | 36.9 | 40.3 | 42.6 | 39.7 | 37.5 | 38.0 | 40.6 | 34.9 | 29.5 | 30.0 | 33.6 | 25.3 | 27.8 | +2.5 |
| Complete 4 years | 33.4 | 34.1 | 34.9 | 36.6 | 33.9 | 35.0 | 33.6 | 34.2 | 33.6 | 34.3 | 35.5 | 33.0 | 33.5 | 31.4 | 31.7 | 28.8 | 29.7 | 31.3 | 30.4 | 28.5 | 26.0 | -2.5 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 37.7 | 40.9 | 36.6 | 46.3 | 39.8 | 40.9 | 40.8 | 41.4 | 35.8 | 41.1 | 41.9 | 40.0 | 41.2 | 37.1 | 37.7 | 38.5 | 38.0 | 41.8 | 33.4 | 29.7 | 35.9 | +6.2 |
| Midwest | 35.4 | 36.2 | 35.2 | 36.6 | 33.7 | 40.5 | 37.4 | 39.6 | 37.4 | 35.4 | 39.3 | 35.2 | 38.1 | 33.4 | 34.7 | 31.1 | 30.4 | 27.9 | 32.5 | 30.9 | 23.6 | -7.2 |
| South | 34.9 | 33.6 | 32.9 | 33.9 | 32.1 | 28.3 | 31.7 | 32.9 | 30.7 | 33.3 | 33.7 | 32.5 | 30.6 | 32.2 | 32.1 | 26.4 | 26.8 | 28.2 | 27.7 | 25.4 | 22.6 | -2.8 |
| West | 28.7 | 27.8 | 35.1 | 37.2 | 34.5 | 38.5 | 33.3 | 31.8 | 35.4 | 33.8 | 32.3 | 30.9 | 29.8 | 28.7 | 29.3 | 27.6 | 28.2 | 31.7 | 32.1 | 28.8 | 26.9 | -1.9 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 33.3 | 30.6 | 36.0 | 37.2 | 34.5 | 41.1 | 36.0 | 37.5 | 32.4 | 30.1 | 36.2 | 34.4 | 37.4 | 37.1 | 38.7 | 30.1 | 34.3 | 36.5 | 35.7 | 29.9 | 26.8 | -3.2 |
| Other MSA | 34.9 | 38.0 | 34.6 | 38.9 | 34.9 | 33.8 | 35.4 | 37.0 | 35.6 | 37.7 | 37.8 | 36.3 | 31.7 | 29.2 | 30.9 | 31.9 | 29.2 | 32.4 | 30.8 | 29.0 | 25.9 | -3.1 |
| Non-MSA | 34.3 | 32.4 | 33.4 | 33.9 | 33.3 | 34.0 | 33.9 | 32.3 | 34.3 | 37.4 | 34.2 | 30.2 | 34.1 | 34.1 | 31.7 | 24.2 | 24.7 | 20.7 | 24.9 | 23.7 | 25.8 | +2.0 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 26.8 | 24.7 | 27.7 | 33.5 | 35.3 | 30.8 | 28.2 | 29.4 | 27.6 | 29.5 | 30.9 | 30.2 | 27.1 | 33.3 | 32.5 | 22.5 | 28.7 | 28.8 | 24.7 | 21.7 | 27.3 | +5.7 |
| 2.5-3.0 | 34.8 | 37.5 | 31.8 | 33.5 | 33.7 | 28.7 | 36.3 | 33.5 | 35.2 | 34.0 | 33.0 | 36.7 | 33.7 | 30.8 | 28.1 | 33.3 | 28.9 | 31.7 | 29.9 | 28.9 | 24.4 | -4.6 |
| 3.5-4.0 | 32.4 | 34.7 | 36.4 | 40.6 | 32.7 | 40.0 | 35.4 | 37.3 | 35.7 | 38.2 | 33.8 | 34.7 | 33.2 | 33.1 | 33.9 | 29.3 | 29.8 | 32.4 | 34.6 | 29.1 | 23.4 | -5.7 |
| 4.5-5.0 | 35.7 | 30.1 | 35.8 | 38.2 | 33.4 | 35.2 | 38.3 | 38.2 | 36.5 | 36.4 | 43.3 | 33.8 | 37.3 | 30.3 | 36.8 | 30.5 | 29.5 | 31.9 | 34.2 | 28.1 | 28.9 | +0.8 |
| 5.5-6.0 (High) | 41.1 | 42.1 | 40.4 | 38.3 | 40.8 | 47.8 | 34.5 | 38.8 | 33.0 | 36.6 | 38.4 | 35.9 | 39.4 | 37.5 | 35.9 | 28.7 | 35.3 | 30.3 | 26.6 | 32.5 | 28.6 | -3.9 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 34.1 | 37.2 | 38.5 | 39.5 | 37.6 | 37.2 | 38.8 | 38.9 | 37.8 | 37.8 | 39.8 | 39.5 | 37.5 | 35.2 | 33.8 | 33.0 | 31.9 | 32.5 | 32.5 | 32.2 | 30.4 | -1.8 |
| African American | 17.9 | 24.9 | 20.4 | 17.6 | 21.5 | 22.2 | 22.1 | 22.0 | 23.0 | 23.7 | 25.3 | 23.0 | 21.6 | 23.7 | 29.4 | 27.4 | 22.8 | 26.7 | 27.1 | 21.6 | 19.2 | -2.4 |
| Hispanic | 27.4 | 29.4 | 28.1 | 31.7 | 36.6 | 36.3 | 36.0 | 36.3 | 33.3 | 29.6 | 30.2 | 28.4 | 27.5 | 29.3 | 30.5 | 30.5 | 30.9 | 30.9 | 30.6 | 29.1 | 26.4 | -2.7 |
|  on one of six forms beginning in 1989; $N$ is one sixth of $N$ indicated in Table S3. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\text {a }}$ Parental education is an average sco ${ }^{\mathrm{b}}$ To derive percentages for each racial race/ethnicity is defined. | re of moth subgroup | her's educ , data for | ation and the spec | father's ed <br> ied year a | ducation. and the pr | See appe evious ye | ndix B for $a r$ have be | details. <br> en combin | ned to incr | rease sub | group sam | hple sizes | and thus | provide | ore stable | estimates | See app | pendix B | or details | on how |  |  |

## LIQUOR: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

|  | Percentage reporting 5+ drinks in a row on one or more occasions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
| Approximate weighted $N=$ | - | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |
| Total | - | 19.8 | 19.9 | 22.0 | 22.8 | 23.0 | 21.3 | 23.8 | 22.0 | 21.3 | 19.6 | 21.4 | 20.5 | 18.2 | 20.0 | 16.8 | 17.4 | 16.0 | 18.2 | 17.1 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 23.3 | 21.1 | 24.4 | 26.3 | 26.1 | 23.0 | 25.8 | 26.4 | 24.6 | 20.9 | 24.7 | 25.0 | 20.3 | 24.5 | 20.7 | 20.5 | 20.0 | 24.6 | 22.4 |
| Female | - | 16.1 | 18.5 | 19.6 | 19.8 | 20.2 | 19.7 | 21.9 | 17.8 | 18.2 | 18.2 | 18.6 | 16.2 | 16.6 | 15.7 | 12.8 | 14.4 | 12.6 | 13.2 | 12.6 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 23.8 | 23.4 | 26.7 | 24.2 | 26.5 | 26.4 | 26.9 | 25.7 | 24.7 | 22.0 | 24.0 | 24.5 | 20.7 | 23.7 | 17.3 | 21.7 | 21.4 | 24.6 | 19.1 |
| Complete 4 years | - | 15.8 | 16.8 | 17.9 | 21.5 | 19.7 | 18.0 | 21.8 | 19.2 | 19.2 | 18.4 | 19.9 | 18.6 | 17.2 | 18.6 | 16.4 | 15.8 | 14.1 | 16.5 | 16.6 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 24.9 | 20.2 | 21.8 | 28.8 | 27.2 | 25.0 | 26.1 | 24.7 | 24.9 | 23.8 | 20.1 | 22.3 | 17.4 | 23.7 | 18.0 | 21.3 | 14.8 | 15.1 | 14.2 |
| Midwest | - | 22.1 | 23.3 | 24.0 | 23.0 | 23.7 | 22.9 | 27.5 | 24.0 | 24.1 | 19.3 | 25.9 | 21.9 | 23.1 | 21.4 | 17.7 | 19.0 | 19.0 | 18.9 | 17.7 |
| South | - | 16.0 | 16.4 | 22.5 | 20.6 | 22.1 | 18.0 | 19.6 | 20.7 | 20.2 | 17.0 | 19.1 | 18.7 | 15.2 | 18.6 | 15.4 | 15.3 | 15.5 | 21.7 | 17.6 |
| West | - | 14.8 | 19.2 | 16.2 | 18.5 | 18.2 | 19.2 | 20.1 | 17.0 | 15.3 | 19.8 | 19.6 | 19.6 | 17.2 | 17.5 | 16.5 | 15.2 | 13.7 | 13.6 | 18.0 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 20.3 | 18.3 | 20.5 | 22.6 | 22.8 | 22.6 | 26.1 | 24.3 | 21.1 | 18.7 | 21.7 | 20.3 | 16.8 | 18.4 | 17.9 | 16.4 | 15.6 | 16.8 | 16.1 |
| Other MSA | - | 19.9 | 21.8 | 21.4 | 23.4 | 23.9 | 20.7 | 22.2 | 21.8 | 20.1 | 19.6 | 19.7 | 20.8 | 19.8 | 19.1 | 16.4 | 17.5 | 15.2 | 17.3 | 16.3 |
| Non-MSA | - | 19.4 | 18.8 | 23.8 | 22.3 | 22.1 | 21.2 | 24.1 | 20.5 | 23.0 | 20.2 | 23.9 | 20.2 | 16.6 | 23.7 | 16.8 | 18.1 | 17.9 | 20.7 | 19.5 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 22.0 | 18.1 | 20.9 | 19.1 | 22.0 | 24.3 | 21.0 | 21.5 | 21.0 | 19.6 | 19.0 | 20.6 | 19.9 | 17.6 | 18.0 | 19.9 | 15.9 | 20.7 | 14.4 |
| 2.5-3.0 | - | 22.8 | 20.4 | 23.7 | 23.6 | 23.9 | 21.3 | 24.7 | 23.6 | 25.5 | 20.4 | 24.2 | 21.2 | 21.6 | 18.1 | 16.4 | 18.1 | 17.9 | 18.3 | 18.5 |
| 3.5-4.0 | - | 17.4 | 21.5 | 22.0 | 22.9 | 20.5 | 24.9 | 25.2 | 19.9 | 19.7 | 18.1 | 20.1 | 18.1 | 15.7 | 23.2 | 15.0 | 18.6 | 15.9 | 19.7 | 16.2 |
| 4.5-5.0 | - | 18.0 | 16.7 | 18.6 | 24.7 | 24.8 | 14.7 | 21.3 | 22.6 | 20.0 | 20.2 | 20.4 | 21.8 | 16.7 | 20.9 | 18.5 | 16.4 | 13.5 | 17.4 | 17.7 |
| 5.5-6.0 (High) | - | 14.0 | 24.9 | 22.5 | 23.2 | 23.6 | 19.5 | 28.1 | 20.4 | 17.5 | 20.6 | 22.0 | 22.2 | 16.4 | 16.3 | 19.4 | 13.3 | 16.5 | 16.0 | 18.8 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 20.5 | 22.1 | 23.6 | 24.1 | 23.3 | 24.2 | 24.5 | 23.0 | 22.0 | 22.0 | 22.6 | 21.3 | 21.0 | 20.7 | 19.0 | 18.0 | 18.7 | 19.4 |
| African American | - | - | 10.5 | 7.7 | 8.4 | 11.1 | 10.6 | 8.6 | 10.9 | 11.2 | 8.0 | 7.5 | 6.2 | 7.2 | 10.4 | 9.6 | 6.8 | 7.1 | 8.9 | 9.5 |
| Hispanic | - | - | 25.5 | 26.8 | 25.9 | 22.9 | 25.3 | 26.7 | 24.5 | 21.4 | 20.9 | 20.8 | 21.9 | 19.0 | 14.6 | 11.9 | 13.4 | 19.4 | 18.1 | 16.8 |

[^18]
# TABLE 103 (cont.) 

## LIQUOR: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

Percentage reporting $5+$ drinks in a row on one or more occasions
2014-

| 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |



## Total

$\begin{array}{lllllllllllllllllllllllll}20.2 & 21.6 & 21.1 & 23.6 & 22.3 & 23.8 & 22.7 & 25.6 & 21.1 & 23.8 & 25.0 & 23.3 & 22.9 & 22.1 & 21.5 & 20.3 & 18.3 & 22.1 & 21.0 & 18.2 & 16.7 & -1.4\end{array}$
Gender:
Male

| 24.7 | 24.6 | 23.9 | 27.3 | 27.6 | 30.8 | 26.4 | 27.2 | 24.1 | 29.2 | 28.5 | 24.7 | 24.4 | 24.0 | 23.3 | 23.6 | 20.4 | 24.3 | 22.5 | 21.0 | 17.7 | -3.3 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

College Plans:
None or under 4 years
Complete 4 years
Region:
Northeast
Midwest
South
$\begin{array}{llllllllllllllllllllllll}16.2 & 17.7 & 18.7 & 20.0 & 16.1 & 17.4 & 18.8 & 23.6 & 18.9 & 18.2 & 22.0 & 22.0 & 21.5 & 20.3 & 19.3 & 15.9 & 16.0 & 19.8 & 19.2 & 15.6 & 15.7 & +0.1\end{array}$
$\begin{array}{llllllllllllllllllllllllll}22.5 & 21.1 & 23.4 & 31.2 & 23.2 & 26.4 & 29.2 & 31.9 & 23.0 & 29.2 & 32.6 & 27.1 & 26.5 & 29.3 & 28.5 & 28.9 & 21.5 & 23.0 & 26.5 & 19.0 & 21.1 & +2.1\end{array}$

| 19.2 | 21.4 | 20.6 | 21.7 | 21.9 | 22.9 | 20.7 | 23.7 | 20.5 | 22.1 | 23.7 | 22.6 | 22.1 | 20.5 | 19.9 | 18.6 | 17.7 | 21.4 | 19.8 | 17.9 | 15.9 | -2.1 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

South

| 19.2 | 25.4 | 24.6 | 29.8 | 25.5 | 24.7 | 27.9 | 27.8 | 23.5 | 28.2 | 28.7 | 29.0 | 31.2 | 23.2 | 27.6 | 23.9 | 24.3 | 29.3 | 22.0 | 19.5 | 24.7 | +5.3 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 21.5 | 22.0 | 20.6 | 23.6 | 19.9 | 29.7 | 21.5 | 28.1 | 24.8 | 23.4 | 28.3 | 26.2 | 26.7 | 23.4 | 23.7 | 21.4 | 19.7 | 21.8 | 23.5 | 19.8 | 16.4 | -3.4 |
| 21.8 | 21.9 | 20.0 | 21.7 | 21.7 | 17.4 | 20.4 | 24.3 | 17.4 | 21.6 | 22.8 | 20.5 | 19.0 | 21.2 | 18.7 | 19.2 | 15.4 | 19.7 | 18.8 | 15.9 | 13.9 | -2.0 |
| 16.4 | 16.3 | 20.5 | 22.3 | 23.6 | 26.1 | 24.3 | 22.7 | 20.7 | 23.4 | 21. | 19.8 | 19.0 | 21.3 | 17.3 | 18.2 | 17.6 | 20.9 | 20.9 | 19.4 | 16.0 | -3.4 |

Population Density:
Large MSA
Other MSA
Non-MSA
Parental Education: ${ }^{\text {a }}$
1.0-2.0 (Low)
2.5-3.0
3.5-4.0
4.5-5.0
5.5-6.0 (High)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 19.3 | 19.5 | 23.0 | 23.9 | 21.4 | 26.6 | 23.6 | 25.8 | 20.0 | 20.7 | 25.3 | 22.6 | 26.0 | 24.0 | 21.9 | 22.3 | 22.4 | 26.7 | 24.4 | 18.5 | 18.0 | -0.5 |
| 20.3 | 24.9 | 21.3 | 25.1 | 22.8 | 21.7 | 22.2 | 26.3 | 21.9 | 24.6 | 26.2 | 25.0 | 21.4 | 20.3 | 21.8 | 20.8 | 17.7 | 21.4 | 19.9 | 18.8 | 16.4 | -2.4 |
| 21.1 | 17.7 | 18.7 | 20.3 | 22. | 24.1 | 22.6 | 24.0 | 21.2 | 25.5 | 22.5 | 21.0 | 21.6 | 23.8 | 20.1 | 16.2 | 14.0 | 16.8 | 19.2 | 16.5 | 15.6 | -0.9 |

$\begin{array}{lllllllllllllllllllllllll}1.1 & 17.7 & 18.7 & 20.3 & 22.2 & 24.1 & 22.6 & 24.0 & 21.2 & 25.5 & 22.5 & 21.0 & 21.6 & 23.8 & 20.1 & 16.2 & 14.0 & 16.8 & 19.2 & 16.5 & 15.6 & -0.9\end{array}$

Race/Ethnicity (2-year average): b
White
African American
Hispanic

| 15.2 | 14.7 | 16.7 | 23.9 | 25.5 | 24.4 | 15.2 | 18.4 | 17.9 | 17.8 | 18.5 | 19.1 | 18.8 | 16.9 | 23.8 | 15.7 | 17.3 | 17.3 | 20.6 | 11.5 | 15.2 | +3.7 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 19.7 | 22.1 | 18.3 | 21.3 | 20.7 | 17.8 | 25.4 | 24.2 | 24.2 | 25.9 | 22.1 | 22.7 | 22.0 | 20.1 | 17.8 | 25.5 | 16.5 | 24.2 | 18.0 | 17.3 | 16.3 | -1.0 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 20.7 | 20.4 | 23.3 | 25.4 | 23.6 | 25.8 | 21.8 | 24.4 | 21.1 | 26.2 | 23.5 | 26.1 | 24.3 | 22.8 | 22.1 | 19.0 | 18.9 | 21.4 | 25.5 | 19.7 | 14.6 | -5.1 |

$\begin{array}{lllllllllllllllllllll}20.7 & 20.4 & 23.3 & 25.4 & 23.6 & 25.8 & 21.8 & 24.4 & 21.1 & 26.2 & 23.5 & 26.1 & 24.3 & 22.8 & 22.1 & 19.0 & 18.9 & 21.4 & 25.5 & 19.7 & 14.6 \\ -5.1 \\ 21.6 & 18.0 & 22.2 & 24.3 & 20.6 & 24.5 & 24.9 & 29.0 & 21.0 & 22.2 & 29.8 & 24.5 & 24.1 & 22.0 & 24.5 & 20.5 & 20.5 & 24.1 & 23.0 & 18.3 & 19.4 \\ +1.1\end{array}$
$\begin{array}{lllllllllllllllllllll} & 24.0 & 31.3 & 23.5 & 23.0 & 22.8 & 30.4 & 22.4 & 31.0 & 21.0 & 20.3 & 28.7 & 20.3 & 24.1 & 25.5 & 20.0 & 18.3 & 18.1 & 19.8 & 15.8 & 24.0 \\ 22.0 & 16.6 & -7.4\end{array}$

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $s=.05, \mathrm{ss}=.01, \mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of five forms in $1976-1988$; N is one fifth of N indicated in Table S 3 . Data based on one of six forms beginning in 1989; $N$ is one sixth of $N$ indicated in Table S3.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

# TABLE 104 

WINE: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Approximate weighted $N=$ | $\frac{1975}{-}$ | $\frac{1976}{15,400}$ | $\frac{1977}{17,100}$ | $\frac{1978}{17,800}$ | $\frac{1979}{15,500}$ | $\frac{1980}{15,900}$ | $\frac{1981}{17,500}$ | $\frac{1982}{17,700}$ | $\frac{1983}{16,300}$ | $\frac{1984}{15,900}$ | $\frac{1985}{16,000}$ | $\frac{1986}{15,200}$ | $\frac{1987}{16,300}$ | $\frac{1988^{\text {a }}}{}{ }^{\text {a }}$ | $\frac{1989}{16,700}$ | $\frac{1990}{15,200}$ | $\frac{1991}{15,000}$ | $\frac{1992}{15,800}$ | $\frac{1993}{16,300}$ | $\frac{1994}{15,400}$ |
| Total | - | 34.5 | 37.4 | 37.7 | 36.6 | 39.5 | 36.6 | 37.8 | 36.0 | 34.1 | 36.0 | 34.5 | 33.5 | 22.7 | 19.7 | 14.7 | 16.1 | 16.9 | 14.9 | 14.2 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 34.1 | 35.5 | 34.8 | 33.9 | 38.1 | 35.3 | 35.6 | 33.8 | 30.3 | 34.2 | 30.8 | 29.3 | 20.7 | 18.9 | 16.1 | 16.9 | 17.2 | 15.9 | 13.8 |
| Female | - | 34.5 | 39.1 | 40.2 | 39.0 | 41.1 | 38.2 | 39.9 | 37.7 | 38.1 | 37.4 | 38.1 | 37.1 | 24.3 | 20.4 | 13.5 | 15.5 | 16.6 | 13.9 | 14.3 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 31.5 | 33.1 | 33.8 | 33.8 | 37.1 | 32.8 | 36.3 | 34.5 | 33.7 | 34.6 | 31.5 | 28.2 | 19.7 | 18.6 | 11.9 | 16.1 | 12.6 | 16.5 | 11.7 |
| Complete 4 years | - | 38.0 | 41.4 | 41.5 | 38.5 | 41.0 | 39.1 | 39.5 | 37.2 | 34.0 | 37.3 | 36.2 | 35.7 | 24.0 | 20.5 | 16.0 | 16.4 | 18.4 | 14.4 | 14.8 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 45.2 | 42.6 | 47.5 | 45.3 | 48.0 | 51.6 | 51.4 | 46.0 | 41.5 | 43.9 | 32.0 | 35.6 | 27.7 | 22.1 | 15.0 | 22.1 | 18.5 | 15.2 | 15.9 |
| Midwest | - | 33.8 | 36.3 | 40.8 | 33.8 | 36.6 | 38.5 | 38.9 | 36.0 | 34.3 | 34.1 | 41.0 | 34.0 | 23.0 | 23.7 | 13.4 | 17.3 | 21.9 | 14.0 | 14.3 |
| South | - | 27.5 | 34.2 | 30.2 | 30.8 | 34.8 | 26.3 | 27.7 | 30.9 | 29.5 | 30.7 | 28.1 | 31.7 | 18.9 | 17.4 | 14.5 | 11.8 | 11.0 | 16.7 | 13.0 |
| West | - | 34.0 | 38.1 | 32.7 | 40.8 | 42.4 | 31.6 | 32.5 | 32.4 | 34.7 | 38.4 | 38.1 | 33.8 | 24.5 | 16.0 | 16.9 | 16.2 | 18.3 | 13.0 | 15.0 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 46.6 | 47.0 | 45.6 | 44.2 | 46.9 | 46.0 | 46.3 | 45.0 | 36.7 | 40.7 | 36.6 | 35.3 | 27.6 | 20.6 | 15.3 | 13.9 | 17.0 | 20.0 | 16.8 |
| Other MSA | - | 33.0 | 36.5 | 36.8 | 36.0 | 42.1 | 34.6 | 36.6 | 32.4 | 34.0 | 36.4 | 36.0 | 34.9 | 22.0 | 20.5 | 16.8 | 17.8 | 19.0 | 15.0 | 14.4 |
| Non-MSA | - | 28.0 | 31.4 | 32.8 | 31.9 | 31.0 | 32.4 | 32.8 | 33.8 | 32.3 | 31.7 | 30.7 | 29.2 | 19.3 | 16.7 | 9.9 | 15.1 | 12.6 | 11.3 | 11.3 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 33.4 | 30.1 | 32.3 | 31.4 | 28.0 | 28.0 | 30.2 | 26.6 | 28.3 | 28.6 | 28.0 | 23.9 | 16.4 | 19.0 | 9.5 | 10.8 | 11.7 | 14.3 | 9.8 |
| 2.5-3.0 | - | 33.8 | 32.8 | 35.3 | 33.0 | 38.0 | 33.2 | 33.8 | 35.3 | 34.0 | 32.4 | 31.3 | 30.7 | 17.8 | 15.6 | 12.4 | 16.0 | 13.9 | 12.1 | 13.6 |
| 3.5-4.0 | - | 36.9 | 42.0 | 40.2 | 38.2 | 39.6 | 37.2 | 42.0 | 32.9 | 35.9 | 36.9 | 37.1 | 31.5 | 23.4 | 18.8 | 14.2 | 16.4 | 15.4 | 14.3 | 11.7 |
| 4.5-5.0 | - | 39.6 | 42.5 | 40.8 | 43.6 | 45.2 | 41.5 | 43.4 | 46.1 | 37.1 | 43.1 | 36.3 | 39.7 | 26.5 | 24.1 | 18.9 | 17.5 | 19.2 | 17.7 | 14.6 |
| 5.5-6.0 (High) | - | 48.4 | 57.3 | 49.8 | 46.7 | 51.7 | 52.9 | 47.5 | 43.2 | 33.9 | 42.6 | 40.1 | 40.9 | 31.4 | 23.5 | 19.3 | 19.4 | 27.1 | 16.5 | 23.8 |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 35.9 | 38.1 | 38.1 | 39.2 | 40.2 | 39.6 | 38.4 | 36.5 | 36.7 | 37.1 | 35.7 | 29.9 | 23.0 | 18.6 | 16.6 | 17.4 | 16.2 | 14.4 |
| African American | - | - | 36.2 | 30.8 | 27.4 | 27.9 | 24.9 | 26.0 | 28.9 | 24.4 | 21.3 | 21.0 | 21.8 | 18.4 | 15.0 | 11.2 | 10.2 | 11.7 | 14.5 | 17.6 |
| Hispanic | - | - | 42.9 | 38.5 | 30.0 | 31.0 | 27.3 | 26.8 | 28.3 | 30.9 | 37.0 | 37.4 | 33.0 | 22.2 | 15.0 | 14.2 | 10.9 | 14.9 | 14.3 | 14.2 |

TABLE 104 (cont.)
WINE: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |  |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 14.3 | 18.3 | 17.0 | 16.0 | 15.8 | 16.2 | 14.1 | 13.4 | 13.4 | 13.9 | 14.4 | 12.6 | 14.1 | 14.0 | 11.5 | 9.3 | 10.2 | 10.6 | 11.5 | 11.5 | 8.4 | -3.1 s |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 13.2 | 18.1 | 16.7 | 17.4 | 17.6 | 17.7 | 12.8 | 13.2 | 13.9 | 13.8 | 13.8 | 11.6 | 12.1 | 13.4 | 12.0 | 8.7 | 9.2 | 8.8 | 10.2 | 10.7 | 5.5 | -5.2 ss |
| Female | 15.3 | 18.2 | 17.3 | 15.0 | 14.4 | 15.0 | 15.5 | 13.2 | 13.5 | 14.1 | 15.1 | 13.6 | 15.3 | 14.4 | 10.9 | 10.2 | 11.0 | 12.5 | 12.7 | 12.6 | 10.2 | -2.4 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 10.6 | 14.5 | 14.2 | 19.0 | 11.9 | 12.0 | 15.9 | 11.7 | 13.8 | 12.7 | 14.4 | 13.9 | 13.1 | 17.3 | 10.3 | 10.6 | 8.3 | 5.6 | 8.9 | 12.9 | 8.0 | -5.0 |
| Complete 4 years | 15.3 | 19.3 | 18.0 | 15.3 | 16.8 | 17.1 | 13.3 | 13.7 | 13.5 | 14.5 | 14.3 | 11.9 | 14.4 | 13.4 | 11.6 | 9.0 | 10.6 | 11.9 | 12.1 | 11.1 | 8.7 | -2.5 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 14.2 | 23.4 | 19.4 | 18.7 | 23.5 | 20.8 | 19.2 | 17.3 | 12.5 | 18.2 | 15.2 | 13.9 | 17.6 | 17.0 | 17.6 | 13.4 | 12.2 | 13.2 | 11.2 | 13.5 | 13.9 | +0.4 |
| Midwest | 14.3 | 13.1 | 14.2 | 17.7 | 16.2 | 11.9 | 13.5 | 14.9 | 13.5 | 13.0 | 15.3 | 13.9 | 14.1 | 13.9 | 14.6 | 12.3 | 8.8 | 10.4 | 12.4 | 12.4 | 10.4 | -2.0 |
| South | 15.9 | 20.0 | 17.7 | 13.8 | 14.6 | 17.2 | 13.9 | 12.7 | 14.0 | 12.6 | 13.4 | 12.1 | 13.9 | 13.3 | 7.6 | 6.8 | 10.0 | 9.3 | 10.5 | 10.9 | 6.3 | -4.6 s |
| West | 11.6 | 16.8 | 17.1 | 15.9 | 11.2 | 15.9 | 11.3 | 9.8 | 13.5 | 12.8 | 14.1 | 10.7 | 11.5 | 13.3 | 8.2 | 7.3 | 10.8 | 10.7 | 12.0 | 10.0 | 5.9 | -4.1 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 14.8 | 19.5 | 18.2 | 19.5 | 17.4 | 20.4 | 16.7 | 17.2 | 11.1 | 12.5 | 16.9 | 15.0 | 16.7 | 18.8 | 12.6 | 9.6 | 11.1 | 16.0 | 12.9 | 13.6 | 9.7 | -3.9 |
| Other MSA | 15.1 | 18.6 | 18.2 | 15.9 | 16.5 | 14.6 | 11.5 | 11.8 | 15.0 | 15.4 | 14.0 | 12.8 | 13.5 | 13.0 | 12.3 | 10.3 | 11.0 | 9.4 | 10.3 | 11.5 | 7.6 | -3.9 s |
| Non-MSA | 12.4 | 16.6 | 13.6 | 12.3 | 13.3 | 14.2 | 15.6 | 11.9 | 13.5 | 12.8 | 12.2 | 8.9 | 11.3 | 11.0 | 8.3 | 6.6 | 7.4 | 5.6 | 12.2 | 8.7 | 7.9 | -0.7 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 13.5 | 9.7 | 13.1 | 14.6 | 16.7 | 19.7 | 12.3 | 14.8 | 9.4 | 12.8 | 10.9 | 4.0 | 9.9 | 11.3 | 9.1 | 5.7 | 9.0 | 8.9 | 5.6 | 6.6 | 6.3 | -0.3 |
| 2.5-3.0 | 10.2 | 15.2 | 13.8 | 10.2 | 10.5 | 10.4 | 13.6 | 8.6 | 13.1 | 10.9 | 13.4 | 10.6 | 9.0 | 11.9 | 8.8 | 9.5 | 5.8 | 9.0 | 10.5 | 7.9 | 7.2 | -0.6 |
| 3.5-4.0 | 10.5 | 17.9 | 15.7 | 15.1 | 11.5 | 14.6 | 10.2 | 13.1 | 13.1 | 15.6 | 12.2 | 11.4 | 15.3 | 13.3 | 10.2 | 7.5 | 11.2 | 11.1 | 12.0 | 11.5 | 7.8 | -3.7 |
| 4.5-5.0 | 18.1 | 18.0 | 18.0 | 20.8 | 19.6 | 16.2 | 19.1 | 15.4 | 15.5 | 14.1 | 16.8 | 15.5 | 16.4 | 13.7 | 13.6 | 12.3 | 8.8 | 11.6 | 14.9 | 10.8 | 9.4 | -1.4 |
| 5.5-6.0 (High) | 24.9 | 27.2 | 29.1 | 20.0 | 29.8 | 29.1 | 16.7 | 19.0 | 15.8 | 18.3 | 18.2 | 18.4 | 19.9 | 17.2 | 17.9 | 10.0 | 17.3 | 12.4 | 11.4 | 25.5 | 12.4 | -13.1 ss |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 14.4 | 16.8 | 19.3 | 18.1 | 16.6 | 16.4 | 15.9 | 15.2 | 14.5 | 14.7 | 15.5 | 15.6 | 15.4 | 14.3 | 12.8 | 11.5 | 10.8 | 11.5 | 12.2 | 13.0 | 12.1 | -0.9 |
| African American | 13.6 | 12.8 | 11.1 | 9.9 | 9.3 | 9.5 | 10.9 | 8.5 | 8.0 | 7.9 | 7.8 | 6.1 | 6.5 | 11.2 | 11.6 | 7.6 | 8.8 | 10.4 | 10.5 | 7.7 | 5.4 | -2.4 |
| Hispanic | 15.0 | 13.8 | 13.5 | 13.4 | 16.4 | 17.9 | 12.9 | 9.4 | 12.2 | 13.5 | 13.1 | 10.5 | 11.0 | 15.7 | 14.2 | 9.4 | 8.2 | 9.4 | 7.8 | 6.6 | 6.5 | -0.1 |

Hispanic
$\begin{array}{lll}15.0 & 13.8 & 13.5 \\ y,\end{array}$
Notes. Level of significance of difference between the two most recent classes: $\mathrm{s}=.05, \mathrm{ss}=.01, \mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of five forms in 1976-1988; $N$ is one fifth of $N$ indicated in Table S3. Data based on one of six forms beginning in 1989; $N$ is one sixth of $N$ indicated in Table S3.

## Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

${ }^{\text {a }}$ In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.
${ }^{\mathrm{b}}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\text {c }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity
is defined.

TABLE 105
WINE: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

|  | Percentage reporting 5+ drinks in a row on one or more occasions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\rightarrow$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{1975}$ | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | $\underline{1988}^{\text {a }}$ | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | (Years cont.) |
| Approximate weighted $N=$ | - | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | - | 12.5 | 13.1 | 13.5 | 12.9 | 13.2 | 13.0 | 14.9 | 14.3 | 13.0 | 12.8 | 13.8 | 12.7 | 7.8 | 6.8 | 4.9 | 5.8 | 5.7 | 5.8 | 4.9 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 14.5 | 13.9 | 14.3 | 13.9 | 13.3 | 12.2 | 12.6 | 14.4 | 12.6 | 12.9 | 12.4 | 12.3 | 7.8 | 6.1 | 5.5 | 7.1 | 6.5 | 7.2 | 4.9 |  |
| Female | - | 10.4 | 12.1 | 12.8 | 12.0 | 12.8 | 13.5 | 16.8 | 13.9 | 13.1 | 12.5 | 14.6 | 12.8 | 7.7 | 7.3 | 4.3 | 4.6 | 4.5 | 4.4 | 4.9 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 14.1 | 14.6 | 14.6 | 14.8 | 15.3 | 13.2 | 16.1 | 15.7 | 14.4 | 13.9 | 14.6 | 13.7 | 9.5 | 9.0 | 5.1 | 8.0 | 6.7 | 8.3 | 4.0 |  |
| Complete 4 years | - | 10.4 | 11.6 | 12.7 | 11.4 | 11.3 | 12.6 | 13.9 | 13.2 | 11.9 | 11.9 | 13.3 | 12.0 | 7.1 | 6.0 | 4.9 | 5.3 | 5.4 | 5.1 | 5.3 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 14.8 | 14.8 | 15.0 | 16.4 | 18.2 | 17.9 | 18.3 | 19.1 | 16.9 | 15.7 | 11.5 | 10.7 | 8.1 | 7.4 | 3.6 | 7.1 | 4.5 | 3.4 | 4.2 |  |
| Midwest | - | 13.8 | 12.9 | 15.4 | 12.6 | 12.2 | 13.9 | 16.0 | 13.6 | 14.1 | 12.3 | 17.2 | 13.5 | 7.8 | 6.9 | 3.9 | 5.6 | 7.2 | 4.6 | 4.6 |  |
| South | - | 10.1 | 11.8 | 11.7 | 11.8 | 11.6 | 10.0 | 12.4 | 12.5 | 11.0 | 10.9 | 12.9 | 13.1 | 6.8 | 6.7 | 5.4 | 5.1 | 4.1 | 8.2 | 4.7 |  |
| West | - | 10.8 | 13.4 | 10.9 | 10.4 | 11.6 | 9.8 | 12.0 | 13.1 | 10.9 | 13.3 | 12.2 | 13.2 | 9.5 | 6.3 | 7.0 | 6.0 | 7.1 | 5.3 | 6.5 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 17.0 | 14.9 | 14.7 | 14.3 | 14.9 | 16.8 | 17.9 | 17.1 | 14.1 | 14.0 | 13.5 | 11.0 | 9.7 | 6.1 | 4.4 | 5.3 | 6.1 | 5.4 | 4.7 |  |
| Other MSA | - | 11.4 | 13.0 | 12.5 | 11.8 | 13.2 | 11.6 | 13.3 | 12.6 | 12.4 | 13.7 | 13.8 | 13.6 | 7.8 | 8.0 | 4.9 | 6.5 | 5.8 | 6.8 | 6.2 |  |
| Non-MSA | - | 10.7 | 11.8 | 14.0 | 13.1 | 12.0 | 11.8 | 14.7 | 14.4 | 13.0 | 10.6 | 13.9 | 12.9 | 6.0 | 4.8 | 5.2 | 4.9 | 5.1 | 4.5 | 3.2 |  |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 14.0 | 16.4 | 14.9 | 12.7 | 10.2 | 13.7 | 15.7 | 12.1 | 12.8 | 11.9 | 14.7 | 12.2 | 8.2 | 8.3 | 4.6 | 5.7 | 8.0 | 12.4 | 4.9 |  |
| 2.5-3.0 | - | 13.4 | 12.0 | 13.7 | 12.4 | 15.4 | 13.1 | 12.1 | 16.8 | 14.6 | 12.1 | 13.6 | 13.0 | 7.2 | 6.2 | 5.4 | 6.8 | 4.8 | 5.3 | 3.8 |  |
| 3.5-4.0 | - | 11.7 | 14.0 | 12.2 | 10.3 | 13.0 | 13.4 | 16.7 | 12.4 | 15.0 | 13.1 | 14.9 | 12.1 | 7.5 | 6.3 | 5.4 | 6.5 | 4.1 | 4.3 | 5.5 |  |
| 4.5-5.0 | - | 12.4 | 9.4 | 12.9 | 16.5 | 12.7 | 11.2 | 14.9 | 14.4 | 10.2 | 13.4 | 12.2 | 13.3 | 7.7 | 8.0 | 4.3 | 4.9 | 6.1 | 6.0 | 3.7 |  |
| 5.5-6.0 (High) | - | 14.4 | 15.4 | 15.0 | 16.5 | 12.0 | 14.2 | 21.2 | 12.5 | 7.7 | 14.5 | 12.9 | 12.3 | 9.5 | 5.0 | 4.4 | 3.5 | 8.3 | 4.4 | 8.4 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 12.0 | 13.1 | 13.4 | 13.1 | 13.4 | 14.4 | 14.8 | 13.8 | 13.3 | 13.6 | 13.4 | 10.4 | 7.5 | 6.0 | 5.3 | 5.5 | 5.0 | 4.8 |  |
| African American | - | - | 16.7 | 12.6 | 10.8 | 10.4 | 9.0 | 10.0 | 11.4 | 10.1 | 8.3 | 8.3 | 7.6 | 8.3 | 7.8 | 4.7 | 5.1 | 5.1 | 7.6 | 7.5 |  |
| Hispanic | - | - | 19.3 | 14.7 | 9.7 | 9.5 | 15.3 | 15.1 | 15.8 | 14.3 | 13.4 | 16.1 | 14.7 | 8.4 | 5.1 | 6.4 | 4.3 | 7.5 | 7.8 | 7.2 |  |

[^19]
## TABLE 105 (cont.)

## WINE: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

Percentage reporting 5+ drinks in a row on one or more occasions


TABLE 106
WINE COOLERS: Trends in 30-Day Prevalence of Use by Subgroups in Grade 8

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\begin{array}{r} 2004- \\ \underline{2015} \\ \hline \end{array}$ |
| Approximate weighted $N=$ | 17,500 | 18,600 | 18,300 | 17,300 | 17,500 | 17,800 | 18,600 | 18,100 | 16,700 | 16,700 | 16,200 | 15,100 | 16,500 |  |
| Total | 14.8 | 15.1 | 16.1 | 15.9 | 15.3 | 17.5 | 15.9 | 15.6 | 16.5 | 14.8 | 15.3 | 12.9 | 12.4 | - |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 14.7 | 13.8 | 16.2 | 15.8 | 14.6 | 16.1 | 14.5 | 15.4 | 16.7 | 13.4 | 14.2 | 11.9 | 10.2 | - |
| Female | 14.6 | 16.2 | 16.0 | 16.2 | 15.6 | 18.7 | 16.9 | 15.8 | 16.3 | 15.9 | 15.9 | 13.3 | 14.3 | - |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 21.2 | 23.9 | 30.6 | 28.1 | 25.3 | 28.7 | 32.1 | 27.3 | 31.9 | 28.5 | 31.6 | 21.1 | 24.2 | - |
| Complete 4 years | 13.7 | 14.0 | 14.3 | 14.5 | 14.1 | 15.7 | 14.0 | 14.3 | 14.7 | 13.3 | 13.4 | 12.2 | 11.1 | - |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 9.8 | 11.5 | 12.7 | 15.8 | 15.0 | 17.7 | 14.5 | 15.7 | 15.4 | 13.5 | 17.7 | 11.8 | 10.9 | - |
| Midwest | 14.5 | 14.6 | 15.7 | 15.0 | 13.9 | 18.5 | 16.1 | 16.2 | 17.6 | 17.0 | 14.8 | 12.1 | 15.5 | - |
| South | 17.4 | 18.1 | 17.8 | 16.7 | 17.0 | 17.5 | 16.6 | 16.2 | 18.6 | 14.6 | 16.8 | 15.0 | 12.7 | - |
| West | 14.8 | 14.2 | 17.3 | 15.9 | 13.9 | 16.0 | 15.3 | 14.0 | 12.7 | 13.3 | 11.4 | 11.3 | 8.9 | - |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 14.1 | 16.4 | 12.7 | 14.4 | 11.1 | 16.5 | 14.1 | 14.0 | 14.0 | 12.9 | 12.3 | 12.1 | 10.4 | - |
| Other MSA | 14.6 | 15.4 | 17.4 | 17.8 | 16.1 | 18.2 | 15.7 | 15.4 | 16.8 | 14.5 | 15.4 | 12.7 | 12.3 | - |
| Non-MSA | 15.8 | 13.4 | 17.3 | 13.2 | 15.8 | 17.3 | 17.9 | 17.6 | 18.9 | 17.5 | 18.3 | 14.4 | 14.7 | - |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 19.3 | 18.7 | 18.5 | 21.1 | 20.4 | 21.7 | 22.2 | 20.7 | 30.2 | 22.1 | 25.1 | 22.8 | 18.2 | - |
| 2.5-3.0 | 16.9 | 16.6 | 19.9 | 17.7 | 17.6 | 20.2 | 19.2 | 17.8 | 19.7 | 18.1 | 19.7 | 14.3 | 15.4 | - |
| 3.5-4.0 | 12.9 | 16.8 | 17.2 | 18.4 | 15.7 | 18.4 | 16.8 | 16.6 | 17.5 | 14.3 | 19.6 | 15.7 | 15.8 | - |
| 4.5-5.0 | 13.9 | 11.8 | 13.5 | 12.0 | 12.5 | 15.4 | 11.9 | 13.6 | 13.1 | 11.8 | 9.0 | 9.8 | 8.1 | - |
| 5.5-6.0 (High) | 13.5 | 12.5 | 11.9 | 14.7 | 13.2 | 13.8 | 13.5 | 14.2 | 11.4 | 12.1 | 8.2 | 9.0 | 8.7 | - |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 14.4 | 15.1 | 15.1 | 14.9 | 16.4 | 16.5 | 15.4 | 16.0 | 15.9 | 15.0 | 14.0 | 12.6 | - |
| African American | - | 13.7 | 13.3 | 14.4 | 12.7 | 12.2 | 14.7 | 12.8 | 12.8 | 13.1 | 12.0 | 9.8 | 9.6 | - |
| Hispanic | - | 21.9 | 23.2 | 23.4 | 24.4 | 22.9 | 21.3 | 21.2 | 22.4 | 21.1 | 18.5 | 18.9 | 18.8 | - |
| Notes. Level of significance of difference between the two most recent classes: $s=.05, \mathrm{ss}=.01$, $\mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991-1996; $N$ is one half of $N$ indicated in Table S1. Data based on one of four forms beginning in 1997; $N$ is one third of $N$ indicated in Table S1. The category of wine coolers was dropped from the 8th- and 10th-grade questionnaires in 2004 to make space for a more general class of flavored alcoholic beverages. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see ${ }^{\text {a }}$ Parental education is an average score ${ }^{\mathrm{b}}$ To derive percentages for each racial subu more stable estimates. See appendix $B$ | Notes ab of mother' bgroup, or details | ove). Us <br> s educatio <br> ata for the <br> on how ra | caution n and fath specified ce/ethnicity | in interpre her's educa year and $y$ is defined | eting sub ation. See the previo d. | group tre appendix us year ha | nds. <br> B for det ave been | ails. combined | to increas | e subgro | up sample | sizes and | thus pro |  |

TABLE 107
WINE COOLERS: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\begin{array}{r} 2004- \\ \underline{2015} \end{array}$ |
| Approximate weighted $N=$ | 14,800 | 14,800 | 15,300 | 15,800 | 17,000 | 15,600 | 15,500 | 15,000 | 13,600 | 14,300 | 14,000 | 14,300 | 15,800 | - |
| Total | 24.0 | 21.5 | 22.5 | 21.8 | 20.8 | 22.8 | 22.1 | 20.9 | 22.1 | 21.2 | 20.8 | 18.9 | 17.2 | - |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 23.9 | 19.8 | 20.5 | 21.9 | 19.4 | 21.8 | 20.6 | 19.0 | 20.5 | 19.6 | 19.8 | 16.0 | 14.8 | - |
| Female | 24.1 | 22.9 | 24.3 | 21.6 | 21.9 | 23.6 | 23.4 | 22.0 | 23.4 | 22.6 | 21.7 | 21.6 | 19.5 | - |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 31.1 | 26.7 | 27.6 | 28.4 | 28.9 | 33.0 | 28.4 | 29.3 | 33.4 | 32.6 | 31.6 | 30.2 | 23.8 | - |
| Complete 4 years | 22.5 | 20.5 | 21.4 | 20.4 | 19.4 | 21.0 | 21.1 | 19.3 | 20.3 | 19.5 | 19.1 | 17.2 | 16.2 | - |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 23.2 | 19.0 | 24.1 | 21.6 | 18.5 | 20.3 | 21.0 | 19.1 | 21.7 | 18.8 | 21.5 | 18.1 | 18.7 | - |
| Midwest | 23.0 | 20.2 | 20.4 | 21.6 | 20.6 | 21.9 | 20.9 | 19.1 | 21.1 | 20.6 | 20.2 | 19.2 | 15.3 | - |
| South | 26.0 | 23.3 | 23.6 | 23.0 | 22.9 | 25.0 | 23.4 | 22.5 | 24.0 | 23.3 | 21.4 | 17.7 | 16.9 | - |
| West | 23.0 | 22.7 | 23.0 | 20.2 | 19.2 | 22.3 | 22.4 | 22.0 | 20.3 | 20.7 | 19.6 | 21.5 | 18.2 | - |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 23.1 | 21.6 | 21.5 | 21.2 | 16.4 | 19.3 | 20.2 | 16.9 | 23.1 | 19.8 | 19.9 | 17.4 | 17.0 | - |
| Other MSA | 23.8 | 22.3 | 22.4 | 22.6 | 20.7 | 23.7 | 22.2 | 21.9 | 21.3 | 19.7 | 19.7 | 18.7 | 16.4 | - |
| Non-MSA | 25.1 | 20.0 | 23.6 | 20.4 | 23.7 | 24.6 | 23.8 | 23.2 | 22.6 | 25.6 | 23.7 | 21.2 | 19.5 | - |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 25.9 | 24.4 | 27.4 | 24.4 | 27.7 | 25.4 | 21.1 | 22.6 | 26.3 | 23.8 | 22.2 | 20.3 | 23.4 | - |
| 2.5-3.0 | 26.8 | 21.3 | 22.3 | 22.4 | 23.8 | 25.5 | 24.3 | 25.4 | 25.1 | 24.2 | 22.7 | 22.5 | 19.8 | - |
| 3.5-4.0 | 24.8 | 22.5 | 22.5 | 22.3 | 22.1 | 23.7 | 23.6 | 22.0 | 22.3 | 23.6 | 22.2 | 19.1 | 17.5 | - |
| 4.5-5.0 | 21.8 | 20.6 | 21.9 | 21.4 | 19.1 | 19.9 | 21.2 | 15.6 | 17.5 | 19.4 | 17.7 | 18.2 | 15.4 | - |
| 5.5-6.0 (High) | 20.7 | 20.5 | 20.2 | 17.8 | 14.5 | 21.3 | 18.5 | 18.5 | 21.2 | 14.2 | 20.3 | 13.7 | 13.3 | - |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 23.0 | 21.9 | 22.1 | 21.2 | 21.7 | 22.6 | 21.7 | 21.6 | 21.9 | 21.2 | 20.3 | 18.1 | - |
| African American | - | 19.9 | 19.3 | 20.6 | 20.0 | 16.6 | 16.1 | 17.6 | 17.0 | 18.1 | 18.3 | 15.3 | 15.2 | - |
| Hispanic | - | 26.3 | 26.2 | 24.7 | 24.9 | 28.1 | 28.0 | 24.1 | 24.5 | 25.2 | 24.5 | 22.3 | 21.7 | - |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01$, $s s s=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S 2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991-1996; $N$ is one half of $N$ indicated in Table S2. Data based on one of four forms beginning in 1997; $N$ is one third of $N$ indicated in Table S2. The category of wine coolers was dropped from the 8th- and 10th-grade questionnaires in 2004 to make space for a more general class of flavored alcoholic beverages. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 108
WINE COOLERS: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | cont.) |
| Approximate weighted $N=$ | - | - | - | - | - | - | - | - | - | - | - | - | - | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | - | - | - | - | - | - | - | - | - | - | - | - | - | 36.6 | 29.4 | 26.2 | 24.3 | 21.9 | 19.4 | 22.2 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | - | - | - | - | - | - | - | - | - | - | - | - | 30.8 | 25.5 | 22.7 | 22.1 | 19.1 | 15.1 | 16.9 |  |
| Female | - | - | - | - | - | - | - | - | - | - | - | - | - | 41.5 | 33.6 | 29.8 | 26.3 | 24.3 | 22.8 | 26.4 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | - | - | - | - | - | - | - | - | - | - | - | - | 38.2 | 30.9 | 29.2 | 29.3 | 21.9 | 20.5 | 22.8 |  |
| Complete 4 years | - | - | - | - | - | - | - | - | - | - | - | - | - | 35.9 | 28.6 | 24.9 | 22.8 | 22.0 | 19.2 | 22.3 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | - | - | - | - | - | - | - | - | - | - | - | - | 33.8 | 29.6 | 29.2 | 21.0 | 19.6 | 18.9 | 15.4 |  |
| Midwest | - | - | - | - | - | - | - | - | - | - | - | - | - | 37.9 | 33.0 | 28.6 | 26.1 | 23.7 | 19.4 | 26.0 |  |
| South | - | - | - | - | - | - | - | - | - | - | - | - | - | 33.6 | 25.7 | 22.9 | 23.1 | 21.3 | 20.6 | 23.4 |  |
| West | - | - | - | - | - | - | - | - | - | - | - | - | - | 42.7 | 31.3 | 24.7 | 26.3 | 22.2 | 17.8 | 19.8 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | - | - | - | - | - | - | - | - | - | - | - | - | 37.7 | 28.6 | 25.9 | 20.9 | 21.2 | 20.4 | 21.2 |  |
| Other MSA | - | - | - | - | - | - | - | - | - | - | - | - | - | 37.1 | 31.1 | 28.7 | 28.1 | 21.0 | 19.0 | 23.3 |  |
| Non-MSA | - | - | - | - | - | - | - | - | - | - | - | - | - | 34.6 | 26.4 | 21.1 | 20.6 | 24.1 | 19.4 | 21.3 |  |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | - | - | - | - | - | - | - | - | - | - | - | - | 28.8 | 27.7 | 22.9 | 24.0 | 25.7 | 20.8 | 23.5 |  |
| 2.5-3.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | 37.8 | 31.9 | 28.1 | 25.4 | 21.2 | 17.1 | 26.4 |  |
| 3.5-4.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | 38.5 | 31.2 | 27.1 | 27.2 | 22.9 | 24.4 | 20.9 |  |
| 4.5-5.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | 35.6 | 27.6 | 27.6 | 22.1 | 18.0 | 17.2 | 22.8 |  |
| 5.5-6.0 (High) | - | - | - | - | - | - | - | - | - | - | - | - | - | 36.9 | 23.5 | 21.5 | 18.0 | 24.5 | 16.4 | 14.6 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 35.4 | 29.6 | 26.7 | 23.7 | 21.3 | 21.5 |  |
| African American | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 25.3 | 21.7 | 20.9 | 18.2 | 17.6 | 18.3 |  |
| Hispanic | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 30.2 | 23.3 | 22.3 | 26.7 | 22.9 | 22.9 |  |

## (Table continued on next page.)

## TABLE 108 (cont.)

## WINE COOLERS: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | 2001 | $\underline{2002}$ | 2003 | 2004 | $\underline{2005}$ | $\underline{2006}$ | 2007 | 2008 | $\underline{2009}$ | 2010 | 2011 | $\underline{2012}$ | $\underline{2013}$ | 2014 | 2015 |  |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 20.6 | 20.7 | 20.7 | 20.1 | 18.4 | 17.6 | 19.0 | 19.3 | 14.6 | 14.4 | 14.1 | 13.3 | 12.7 | 12.8 | 12.2 | 12.4 | 10.0 | 10.7 | 11.3 | 11.3 | 9.8 | $-1.4$ |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 15.5 | 17.7 | 15.9 | 15.0 | 15.6 | 15.6 | 14.1 | 12.0 | 9.4 | 11.2 | 8.7 | 9.2 | 9.2 | 8.3 | 7.6 | 9.1 | 6.1 | 6.7 | 6.6 | 7.0 | 6.0 | -0.9 |
| Female | 25.1 | 23.6 | 24.4 | 23.5 | 20.6 | 19.5 | 22.2 | 24.2 | 18.9 | 17.2 | 18.7 | 17.1 | 16.1 | 16.6 | 16.0 | 16.2 | 13.4 | 14.6 | 15.6 | 15.0 | 12.9 | -2.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 22.7 | 20.0 | 17.8 | 21.8 | 22.8 | 21.2 | 23.1 | 21.8 | 17.2 | 16.7 | 18.6 | 17.5 | 18.0 | 16.8 | 15.1 | 18.6 | 12.7 | 10.8 | 13.7 | 12.4 | 9.3 | -3.2 |
| Complete 4 years | 19.8 | 20.9 | 21.6 | 19.6 | 17.3 | 16.1 | 17.7 | 18.8 | 14.0 | 13.7 | 13.2 | 12.3 | 11.5 | 12.0 | 11.4 | 11.3 | 9.5 | 10.8 | 10.8 | 10.8 | 10.2 | -0.5 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 14.6 | 21.1 | 17.2 | 20.8 | 22.1 | 19.1 | 18.4 | 17.8 | 15.9 | 14.7 | 17.3 | 13.3 | 15.2 | 11.7 | 11.7 | 15.9 | 14.8 | 13.5 | 14.0 | 12.6 | 12.4 | -0.1 |
| Midwest | 19.8 | 20.9 | 21.5 | 18.6 | 19.2 | 18.3 | 19.5 | 20.9 | 15.5 | 11.0 | 13.7 | 13.2 | 11.9 | 12.3 | 14.4 | 12.3 | 9.5 | 10.9 | 12.7 | 11.6 | 8.1 | -3.5 |
| South | 24.1 | 23.2 | 22.9 | 20.6 | 18.7 | 16.8 | 19.7 | 20.6 | 13.9 | 16.7 | 13.5 | 14.6 | 13.0 | 15.1 | 10.1 | 12.8 | 9.8 | 9.4 | 9.3 | 12.6 | 10.0 | -2.6 |
| West | 20.4 | 14.9 | 18.9 | 20.4 | 13.7 | 16.7 | 17.5 | 16.6 | 13.1 | 14.6 | 12.7 | 10.9 | 10.9 | 10.8 | 13.1 | 9.4 | 7.7 | 10.6 | 10.9 | 7.8 | 9.4 | +1.6 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 20.7 | 22.7 | 23.9 | 22.5 | 14.7 | 19.8 | 18.1 | 20.5 | 12.8 | 14.2 | 13.5 | 10.7 | 11.9 | 11.4 | 11.9 | 12.2 | 11.6 | 11.8 | 12.2 | 10.7 | 9.5 | -1.1 |
| Other MSA | 19.8 | 19.3 | 19.1 | 19.4 | 17.5 | 15.0 | 18.5 | 18.4 | 13.7 | 13.8 | 13.2 | 14.4 | 12.6 | 12.8 | 12.8 | 12.8 | 8.5 | 9.5 | 10.4 | 10.1 | 9.5 | -0.6 |
| Non-MSA | 21.8 | 21.6 | 20.1 | 18.7 | 23.4 | 19.4 | 20.6 | 19.4 | 18.0 | 15.6 | 16.7 | 14.7 | 13.9 | 14.3 | 11.3 | 11.8 | 11.4 | 12.2 | 12.3 | 14.7 | 11.2 | -3.5 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 21.1 | 18.2 | 13.2 | 19.8 | 19.0 | 24.8 | 19.3 | 18.4 | 13.7 | 21.3 | 15.6 | 12.8 | 18.4 | 17.3 | 17.4 | 13.5 | 12.8 | 10.6 | 11.0 | 10.0 | 13.0 | +3.0 |
| 2.5-3.0 | 20.4 | 26.8 | 20.0 | 21.4 | 23.2 | 16.3 | 22.8 | 19.6 | 18.1 | 17.2 | 19.8 | 15.6 | 13.1 | 12.8 | 11.1 | 16.7 | 15.5 | 10.2 | 13.1 | 15.0 | 10.5 | -4.5 |
| 3.5-4.0 | 22.0 | 19.5 | 23.0 | 23.3 | 17.3 | 21.8 | 18.5 | 17.8 | 14.7 | 16.4 | 12.6 | 15.3 | 13.5 | 12.3 | 14.5 | 11.6 | 7.7 | 11.9 | 12.7 | 11.3 | 9.8 | -1.4 |
| 4.5-5.0 | 21.0 | 17.0 | 21.4 | 17.9 | 14.3 | 13.6 | 19.0 | 19.4 | 12.4 | 9.1 | 13.6 | 12.7 | 10.8 | 11.1 | 11.0 | 10.9 | 8.5 | 12.3 | 11.0 | 9.0 | 8.8 | -0.2 |
| 5.5-6.0 (High) | 16.7 | 20.8 | 21.0 | 16.6 | 19.9 | 16.8 | 14.6 | 23.5 | 10.1 | 13.3 | 9.8 | 9.8 | 11.7 | 12.5 | 7.1 | 10.7 | 8.2 | 6.5 | 9.6 | 11.9 | 9.0 | $-2.9$ |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 21.9 | 20.8 | 21.2 | 21.0 | 19.6 | 18.0 | 18.2 | 19.7 | 16.8 | 13.1 | 13.6 | 14.6 | 13.1 | 11.4 | 11.1 | 12.5 | 12.0 | 10.8 | 11.2 | 11.6 | 11.1 | -0.5 |
| African American | 17.6 | 22.1 | 21.1 | 18.4 | 15.5 | 12.4 | 17.0 | 17.0 | 15.8 | 19.4 | 18.4 | 10.9 | 11.8 | 16.8 | 18.5 | 13.0 | 8.3 | 8.9 | 10.9 | 10.4 | 8.9 | -1.4 |
| Hispanic | 26.0 | 22.0 | 19.8 | 18.2 | 17.4 | 20.7 | 20.0 | 16.7 | 16.0 | 19.7 | 19.4 | 13.8 | 13.0 | 12.9 | 13.2 | 12.7 | 10.5 | 9.7 | 11.2 | 11.0 | 10.0 | -1.0 |
|  <br>  on one of six forms beginning in 1989; $N$ is one sixth of $N$ indicated in Table S3. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see ${ }^{\text {a }}$ Parental education is an average score of ${ }^{\text {b }}$ To derive percentages for each racial sub is defined. | Notes ab of mother's bgroup, d | bove). Us <br> s educatio ata for the | se caution on and fat specified | in interp her's educ year and | reting su ation. Se the previo | bgroup $t$ <br> appendix <br> us year h | rends. <br> B for de ave been | ails. combined | to increa | se subgro | up sampl | sizes an | d thus pro | vide more | stable e | timates. | See appen | dix B for | details on | how race/ | ethnicity |  |

TABLE 109
WINE COOLERS: Trends in 2-Week Prevalence of $5 \underline{\text { or More Drinks in a Row by Subgroups in Grade } 12}$

|  | Percentage reporting $5+$ drinks in a row on one or more occasions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\xrightarrow[\substack{\text { (years } \\ \text { cont.) }}]{ }$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{1975}$ | 1976 | 1977 | 1978 | 1979 | 1980 | $\underline{1981}$ | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |  |
| Approximate weighted $N=$ | - | - | - | - | - | - | - | - | - | - | - | - | - | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |  |
| Total | - | - | - | - | - | - | - | - | - | - | - | - | - | 13.9 | 12.4 | 10.5 | 10.2 | 10.4 | 8.5 | 8.9 |  |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | - | - | - | - | - | - | - | - | - | - | - | - | 12.1 | 11.3 | 9.9 | 10.0 | 10.2 | 7.3 | 7.4 |  |
| Female | - | - | - | - | - | - | - | - | - | - | - | - | - | 15.1 | 13.5 | 11.3 | 10.2 | 10.3 | 9.5 | 10.0 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | - | - | - | - | - | - | - | - | - | - | - | - | 17.7 | 16.2 | 14.2 | 13.5 | 11.1 | 10.8 | 10.9 |  |
| Complete 4 years | - | - | - | - | - | - | - | - | - | - | - | - | - | 12.5 | 10.7 | 9.0 | 9.2 | 10.1 | 8.0 | 8.6 |  |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | - | - | - | - | - | - | - | - | - | - | - | - | 14.7 | 14.3 | 10.0 | 7.6 | 8.8 | 6.5 | 5.5 |  |
| Midwest | - | - | - | - | - | - | - | - | - | - | - | - | - | 14.2 | 13.1 | 12.0 | 10.9 | 12.0 | 8.0 | 9.9 |  |
| South | - | - | - | - | - | - | - | - | - | - | - | - | - | 11.2 | 11.2 | 9.3 | 8.8 | 10.3 | 11.1 | 9.3 |  |
| West | - | - | - | - | - | - | - | - | - | - | - | - | - | 17.4 | 12.0 | 11.0 | 13.2 | 9.7 | 6.2 | 10.0 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | - | - | - | - | - | - | - | - | - | - | - | - | 14.2 | 11.7 | 10.0 | 7.9 | 11.8 | 7.9 | 8.5 |  |
| Other MSA | - | - | - | - | - | - | - | - | - | - | - | - | - | 15.6 | 12.4 | 11.0 | 12.4 | 9.2 | 8.7 | 8.8 |  |
| Non-msA | - | - | - | - | - | - | - | - | - | - | - | - | - | 10.7 | 13.3 | 9.9 | 8.2 | 11.7 | 8.6 | 9.6 |  |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | - | - | - | - | - | - | - | - | - | - | - | - | 13.9 | 9.2 | 10.7 | 12.5 | 13.1 | 12.2 | 11.4 |  |
| 2.5-3.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | 16.6 | 13.8 | 13.3 | 10.9 | 9.5 | 6.9 | 10.4 |  |
| 3.5-4.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | 13.6 | 14.9 | 9.3 | 12.0 | 11.1 | 11.1 | 8.8 |  |
| 4.5-5.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | 11.7 | 10.5 | 11.3 | 9.2 | 8.8 | 7.4 | 9.2 |  |
| 5.5-6.0 (High) | - | - | - | - | - | - | - | - | - | - | - | - | - | 11.4 | 7.4 | 6.3 | 3.7 | 10.6 | 5.6 | 4.8 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 13.6 | 12.3 | 10.7 | 10.3 | 9.5 | 8.6 |  |
| African American | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 13.0 | 9.9 | 9.2 | 8.7 | 8.6 | 8.6 |  |
| Hispanic | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 11.5 | 6.0 | 9.8 | 14.5 | 13.5 | 13.1 |  |

[^20]
# TABLE 109 (cont.) 

## WINE COOLERS: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12

|  | Percentage reporting 5+ drinks in a row on one or more occasions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | $\underline{2002}$ | 2003 | 2004 | 2005 | $\underline{2006}$ | $\underline{2007}$ | 2008 | $\underline{2009}$ | $\underline{2010}$ | 2011 | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 9.0 | 8.4 | 9.4 | 9.5 | 7.7 | 8.8 | 9.7 | 10.0 | 7.1 | 7.5 | 7.2 | 7.1 | 5.8 | 7.3 | 6.2 | 6.4 | 4.9 | 5.4 | 5.3 | 5.8 | 5.0 | -0.7 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 6.7 | 6.9 | 6.7 | 7.0 | 7.0 | 9.4 | 6.2 | 7.2 | 5.4 | 7.5 | 4.2 | 6.1 | 4.8 | 4.5 | 3.5 | 5.7 | 3.6 | 3.0 | 4.1 | 4.1 | 2.5 | -1.5 |
| Female | 10.8 | 9.7 | 11.3 | 11.0 | 7.8 | 8.4 | 11.4 | 11.4 | 8.2 | 8.0 | 9.7 | 8.0 | 7.0 | 9.6 | 8.7 | 7.0 | 6.1 | 7.2 | 6.4 | 7.2 | 6.8 | -0.5 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 12.1 | 8.8 | 10.1 | 9.9 | 10.2 | 12.1 | 14.8 | 13.7 | 8.9 | 10.8 | 11.4 | 11.9 | 11.1 | 8.2 | 9.4 | 9.9 | 6.2 | 6.7 | 7.9 | 6.2 | 5.4 | $-0.8$ |
| Complete 4 years | 8.0 | 8.3 | 9.2 | 9.5 | 7.0 | 7.4 | 8.2 | 9.2 | 6.7 | 6.8 | 6.2 | 6.0 | 4.7 | 7.0 | 5.6 | 5.6 | 4.5 | 5.1 | 4.6 | 5.4 | 5.0 | -0.4 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 5.5 | 9.8 | 8.2 | 9.6 | 8.9 | 10.1 | 10.2 | 9.8 | 8.0 | 7.5 | 10.7 | 6.9 | 6.1 | 7.4 | 5.9 | 7.5 | 9.4 | 6.1 | 6.0 | 5.0 | 4.5 | -0.5 |
| Midwest | 7.0 | 9.2 | 9.7 | 7.3 | 7.0 | 10.8 | 8.9 | 12.0 | 8.8 | 6.4 | 6.6 | 7.3 | 6.0 | 8.1 | 7.8 | 6.1 | 5.0 | 4.6 | 6.9 | 5.4 | 4.6 | -0.7 |
| South | 11.5 | 8.7 | 9.7 | 10.5 | 8.8 | 5.9 | 10.9 | 9.6 | 6.7 | 8.6 | 6.6 | 8.3 | 5.7 | 8.4 | 4.9 | 7.3 | 4.6 | 6.1 | 3.9 | 6.5 | 5.5 | -1.0 |
| West | 10.4 | 4.8 | 9.7 | 10.2 | 5.6 | 10.1 | 8.4 | 8.4 | 5.0 | 7.1 | 5.7 | 5.1 | 5.5 | 4.6 | 6.7 | 4.3 | 2.5 | 4.9 | 5.0 | 5.6 | 5.1 | -0.5 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 11.1 | 8.8 | 10.8 | 12.1 | 7.5 | 11.1 | 10.6 | 9.6 | 6.8 | 7.2 | 7.0 | 6.4 | 5.3 | 6.3 | 4.8 | 7.1 | 4.9 | 6.8 | 6.3 | 5.3 | 4.8 | -0.6 |
| Other MSA | 7.5 | 8.3 | 9.5 | 8.7 | 6.5 | 8.1 | 8.2 | 9.9 | 6.3 | 7.0 | 7.4 | 6.6 | 6.4 | 6.7 | 6.6 | 6.5 | 4.0 | 3.8 | 4.0 | 5.1 | 5.3 | +0.1 |
| Non-MSA | 9.1 | 8.2 | 7.8 | 7.9 | 9.7 | 7.4 | 11.3 | 10.7 | 8.9 | 8.9 | 7.1 | 9.1 | 5.3 | 9.4 | 7.2 | 4.9 | 7.2 | 6.8 | 7.0 | 7.7 | 4.8 | -2.9 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 11.7 | 9.6 | 6.8 | 13.2 | 8.3 | 16.8 | 14.1 | 14.6 | 9.3 | 11.9 | 8.3 | 12.0 | 8.8 | 9.1 | 9.7 | 7.5 | 8.4 | 4.9 | 8.3 | 5.5 | 7.6 | +2.1 |
| 2.5-3.0 | 9.5 | 11.4 | 9.8 | 11.0 | 9.2 | 8.8 | 12.6 | 9.9 | 9.4 | 9.5 | 9.9 | 8.2 | 8.1 | 8.0 | 5.4 | 8.5 | 7.9 | 6.7 | 4.9 | 6.4 | 5.3 | -1.1 |
| 3.5-4.0 | 8.5 | 6.8 | 10.6 | 9.9 | 7.7 | 8.8 | 7.3 | 9.9 | 6.1 | 9.1 | 6.2 | 7.4 | 5.6 | 6.8 | 8.6 | 5.6 | 4.0 | 5.0 | 6.6 | 6.9 | 4.6 | -2.3 |
| 4.5-5.0 | 9.2 | 7.2 | 8.6 | 7.7 | 7.2 | 8.6 | 10.7 | 10.7 | 5.9 | 4.2 | 6.8 | 7.4 | 4.7 | 5.5 | 4.2 | 5.3 | 3.4 | 5.7 | 4.3 | 4.5 | 4.5 | 0.0 |
| 5.5-6.0 (High) | 7.5 | 7.7 | 9.5 | 7.9 | 5.8 | 7.0 | 6.1 | 8.0 | 5.9 | 5.5 | 5.2 | 3.4 | 4.1 | 8.3 | 3.8 | 5.2 | 3.5 | 3.0 | 4.6 | 6.0 | 5.3 | $-0.7$ |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 8.6 | 8.1 | 8.7 | 8.8 | 7.6 | 7.6 | 8.9 | 10.2 | 8.4 | 6.4 | 6.9 | 7.5 | 6.4 | 5.4 | 5.5 | 6.1 | 6.1 | 5.3 | 5.4 | 6.4 | 5.9 | -0.5 |
| African American | 7.5 | 10.4 | 10.0 | 9.2 | 6.9 | 4.2 | 9.6 | 10.0 | 7.8 | 11.7 | 10.5 | 4.6 | 4.9 | 6.6 | 8.2 | 7.2 | 4.3 | 3.9 | 4.7 | 3.8 | 4.4 | +0.6 |
| Hispanic | 13.9 | 11.1 | 9.8 | 12.0 | 12.6 | 13.2 | 11.5 | 9.1 | 9.3 | 10.6 | 9.4 | 8.0 | 7.9 | 8.1 | 8.8 | 7.4 | 5.6 | 5.4 | 5.8 | 5.2 | 5.7 | +0.6 |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  <br>  one of six forms beginning in 1989; $N$ is one sixth of $N$ indicated in Table S3. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  is defined. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 110
FLAVORED ALCOHOLIC BEVERAGES:
Trends in 30-Day Prevalence of Use by Subgroups in Grade 8

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{r} 1991- \\ \underline{2003} \end{array}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | - | 17,000 | 16,800 | 16,500 | 16,100 | 15,700 | 15,000 | 15,300 | 16,000 | 15,100 | 14,600 | 14,600 | 14,400 |  |
| Total | - | 14.6 | 12.9 | 13.1 | 12.2 | 10.2 | 9.5 | 9.4 | 8.6 | 7.6 | 6.3 | 5.7 | 5.5 | -0.2 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 12.7 | 11.4 | 10.8 | 10.4 | 9.2 | 9.1 | 8.3 | 8.3 | 6.1 | 5.8 | 5.1 | 5.2 | +0.1 |
| Female | - | 16.3 | 14.4 | 15.3 | 13.4 | 10.9 | 9.7 | 10.3 | 8.6 | 9.1 | 6.7 | 5.9 | 5.8 | -0.2 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 28.1 | 24.9 | 25.9 | 23.8 | 24.0 | 18.3 | 19.6 | 14.4 | 19.9 | 14.3 | 13.8 | 10.4 | -3.3 |
| Complete 4 years | - | 13.3 | 11.8 | 11.8 | 11.1 | 9.0 | 8.7 | 8.6 | 8.3 | 6.7 | 5.8 | 5.1 | 5.2 | +0.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 14.9 | 11.0 | 12.2 | 9.7 | 9.2 | 8.8 | 9.2 | 5.4 | 7.2 | 4.7 | 4.9 | 4.2 | -0.7 |
| Midwest | - | 16.2 | 12.6 | 12.9 | 12.0 | 10.5 | 9.1 | 8.2 | 7.8 | 5.2 | 6.3 | 5.6 | 5.5 | -0.1 |
| South | - | 15.1 | 14.6 | 14.3 | 14.0 | 12.6 | 11.8 | 11.3 | 9.6 | 9.2 | 7.4 | 4.7 | 6.6 | +1.9 |
| West | - | 11.7 | 11.9 | 12.0 | 10.9 | 7.2 | 6.7 | 7.6 | 10.4 | 7.6 | 5.9 | 7.8 | 4.5 | -3.4 s |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 14.4 | 11.5 | 12.6 | 10.6 | 11.1 | 7.2 | 8.5 | 6.4 | 6.8 | 5.7 | 4.9 | 4.5 | -0.3 |
| Other MSA | - | 14.2 | 14.0 | 13.0 | 12.4 | 9.7 | 9.7 | 10.0 | 9.7 | 8.0 | 7.2 | 5.3 | 6.0 | +0.6 |
| Non-MSA | - | 15.6 | 12.8 | 13.9 | 14.2 | 10.2 | 12.0 | 9.0 | 9.6 | 8.2 | 5.5 | 7.4 | 5.8 | -1.6 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 19.5 | 19.5 | 18.7 | 21.1 | 19.3 | 14.7 | 11.2 | 12.7 | 11.7 | 12.3 | 9.5 | 11.5 | +2.0 |
| 2.5-3.0 | - | 17.5 | 18.0 | 18.7 | 17.5 | 14.4 | 13.1 | 13.4 | 12.1 | 11.7 | 8.7 | 8.4 | 5.2 | -3.2 |
| 3.5-4.0 | - | 17.8 | 16.2 | 13.4 | 12.3 | 11.7 | 11.4 | 10.5 | 10.3 | 7.8 | 7.9 | 7.0 | 6.4 | -0.6 |
| 4.5-5.0 | - | 11.8 | 10.3 | 8.5 | 9.8 | 7.2 | 7.4 | 8.0 | 6.2 | 5.4 | 5.6 | 3.3 | 3.8 | +0.5 |
| 5.5-6.0 (High) | - | 11.5 | 7.3 | 9.9 | 7.1 | 6.5 | 4.7 | 4.9 | 6.2 | 4.7 | 2.8 | 4.1 | 4.0 | -0.1 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 13.8 | 12.6 | 12.1 | 11.1 | 9.8 | 9.0 | 8.5 | 7.4 | 6.4 | 5.5 | 5.1 | -0.4 |
| African American | - | - | 12.0 | 11.0 | 10.1 | 9.2 | 8.5 | 8.0 | 7.7 | 8.8 | 7.3 | 4.2 | 4.3 | +0.1 |
| Hispanic | - | - | 17.0 | 17.6 | 16.7 | 13.9 | 11.8 | 11.7 | 11.4 | 10.8 | 9.1 | 7.5 | 7.1 | -0.4 |
| Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01$, $s s s=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; $N$ is one third of $N$ indicated in Table S1. In 2011 Skyy Blue and Zima were deleted from the list of examples. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see No <br> ${ }^{\text {a }}$ Parental education is an average score of $m$ <br> ${ }^{\mathrm{b}}$ To derive percentages for each racial subgr more stable estimates. See appendix $B$ for $d$ | otes abo mother's roup, dat details on | ve). Use <br> education <br> a for the <br> how rac | caution in and fathe pecified y /ethnicity | interpre r's educat ear and th is defined | ting subg tion. See he previou | group tren appendix us year have | ds. <br> B for detals ve been c | ails. <br> ombined | increase | subgroup | sample | sizes and | thus prov |  |

TABLE 111
FLAVORED ALCOHOLIC BEVERAGES:
Trends in 30-Day Prevalence of Use by Subgroups in Grade 10

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1991- \\ \underline{2003} \end{gathered}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | - | 16,400 | 16,200 | 16,200 | 16,100 | 15,100 | 15,900 | 15,200 | 14,900 | 15,000 | 12,900 | 13,000 | 15,600 |  |
| Total | - | 25.1 | 23.1 | 24.7 | 21.8 | 20.2 | 19.0 | 19.4 | 15.8 | 16.3 | 15.5 | 14.0 | 12.8 | -1.2 |
| Gender |  |  | ; |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 24.5 | 20.3 | 22.4 | 18.8 | 17.0 | 17.0 | 18.8 | 13.8 | 13.5 | 13.7 | 12.4 | 10.5 | -1.8 |
| Female | - | 25.6 | 25.8 | 26.9 | 24.7 | 22.9 | 20.9 | 19.8 | 17.7 | 18.5 | 16.7 | 15.7 | 14.9 | -0.8 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 32.5 | 33.8 | 37.2 | 32.0 | 29.1 | 30.0 | 28.6 | 25.7 | 21.0 | 19.1 | 20.5 | 18.9 | -1.6 |
| Complete 4 years | - | 24.2 | 21.7 | 23.1 | 20.6 | 19.1 | 17.8 | 18.4 | 14.7 | 15.8 | 15.0 | 13.3 | 12.3 | -1.0 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 26.6 | 22.4 | 26.3 | 23.2 | 22.2 | 18.6 | 18.3 | 17.5 | 19.4 | 15.6 | 14.4 | 12.4 | -2.0 |
| Midwest |  | 22.5 | 23.4 | 23.5 | 21.2 | 20.0 | 17.6 | 19.1 | 14.3 | 14.5 | 13.9 | 12.3 | 12.6 | +0.3 |
| South | - | 25.6 | 23.7 | 24.5 | 20.0 | 20.3 | 21.1 | 19.6 | 16.6 | 17.4 | 17.2 | 14.5 | 15.0 | +0.6 |
| West |  | 26.5 | 22.5 | 25.4 | 23.6 | 19.0 | 17.9 | 20.3 | 15.1 | 14.0 | 15.0 | 14.8 | 9.7 | -5.1 s |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA |  | 22.4 | 22.0 | 23.1 | 21.5 | 19.0 | 17.6 | 20.2 | 15.3 | 17.4 | 13.8 | 13.7 | 12.3 | -1.4 |
| Other MSA | - | 26.1 | 23.1 | 25.5 | 21.4 | 20.9 | 19.6 | 19.0 | 15.8 | 16.2 | 16.4 | 14.5 | 12.4 | -2.1 |
| Non-MSA | - | 26.5 | 24.4 | 25.5 | 23.0 | 20.5 | 19.7 | 18.9 | 16.5 | 14.7 | 15.7 | 13.2 | 14.5 | +1.3 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 27.3 | 24.9 | 25.8 | 25.5 | 21.8 | 23.5 | 26.4 | 17.6 | 17.0 | 16.4 | 14.6 | 13.6 | -1.0 |
| 2.5-3.0 | - | 30.5 | 28.1 | 27.9 | 25.8 | 23.4 | 23.3 | 24.5 | 19.2 | 17.3 | 19.9 | 16.6 | 17.7 | +1.1 |
| 3.5-4.0 | - | 25.0 | 23.6 | 28.5 | 23.1 | 21.2 | 18.8 | 20.2 | 17.5 | 15.6 | 16.3 | 16.2 | 13.6 | -2.6 |
| 4.5-5.0 | - | 24.9 | 22.6 | 19.9 | 19.7 | 19.0 | 18.2 | 15.7 | 13.6 | 16.7 | 14.6 | 11.5 | 11.2 | -0.3 |
| 5.5-6.0 (High) | - | 20.8 | 17.3 | 23.7 | 16.9 | 16.2 | 14.3 | 15.4 | 12.3 | 17.5 | 10.5 | 13.3 | 10.9 | -2.5 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 25.7 | 25.1 | 24.0 | 21.8 | 20.0 | 19.0 | 17.4 | 16.5 | 16.5 | 15.8 | 14.8 | -1.0 |
| African American | - | - | 16.1 | 15.5 | 15.9 | 15.2 | 14.2 | 14.8 | 14.0 | 10.7 | 9.6 | 8.1 | 8.1 | 0.0 |
| Hispanic | - | - | 29.0 | 28.6 | 26.1 | 23.1 | 23.0 | 24.2 | 22.6 | 17.7 | 16.7 | 16.1 | 14.3 | -1.8 |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01$, $s s s=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; $N$ is one third of $N$ indicated in Table S2. In 2011 Skyy Blue and Zima were deleted from the list of examples. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 112
FLAVORED ALCOHOLIC BEVERAGES:

## Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1991- \\ \underline{2003} \end{gathered}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | 2007 | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | - | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | - | 31.1 | 30.5 | 29.3 | 29.1 | 27.4 | 27.4 | 24.1 | 23.1 | 21.8 | 21.0 | 19.9 | 20.8 | +0.9 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 28.9 | 28.3 | 26.0 | 25.4 | 25.8 | 27.3 | 22.6 | 21.8 | 19.9 | 20.1 | 16.8 | 19.1 | +2.3 |
| Female | - | 33.2 | 33.2 | 32.3 | 32.8 | 29.0 | 27.1 | 25.0 | 24.6 | 23.3 | 22.0 | 21.9 | 22.6 | +0.7 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 34.7 | 34.2 | 32.9 | 37.0 | 29.0 | 35.6 | 26.8 | 26.2 | 22.6 | 25.8 | 22.8 | 24.8 | +2.0 |
| Complete 4 years | - | 30.3 | 29.6 | 28.7 | 27.5 | 26.9 | 25.9 | 23.9 | 22.4 | 21.5 | 19.9 | 19.3 | 20.0 | +0.7 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 33.5 | 38.1 | 29.4 | 36.0 | 33.5 | 34.0 | 31.3 | 25.7 | 20.6 | 23.6 | 22.6 | 24.9 | +2.3 |
| Midwest | - | 35.3 | 33.4 | 32.2 | 28.5 | 25.8 | 26.7 | 23.7 | 23.1 | 22.4 | 18.3 | 24.3 | 19.9 | -4.4 |
| South | - | 25.9 | 25.9 | 27.0 | 28.8 | 26.9 | 27.2 | 23.3 | 22.1 | 19.3 | 19.9 | 17.6 | 21.3 | +3.7 |
| West | - | 32.1 | 27.9 | 29.9 | 24.9 | 25.8 | 23.2 | 20.9 | 22.9 | 24.8 | 23.9 | 17.6 | 18.0 | +0.4 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 27.0 | 29.9 | 32.3 | 30.8 | 28.7 | 27.0 | 26.4 | 25.3 | 22.5 | 23.4 | 18.7 | 21.9 | +3.2 |
| Other MSA | - | 33.4 | 29.9 | 27.7 | 27.8 | 25.8 | 28.8 | 23.8 | 23.8 | 22.2 | 20.0 | 19.9 | 19.3 | -0.6 |
| Non-MSA | - | 30.9 | 32.2 | 28.5 | 29.5 | 29.1 | 24.7 | 21.8 | 18.6 | 19.5 | 20.1 | 21.2 | 22.2 | +1.0 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 28.5 | 22.2 | 30.3 | 34.0 | 24.9 | 26.8 | 13.8 | 24.8 | 19.7 | 21.8 | 21.0 | 20.9 | -0.1 |
| 2.5-3.0 | - | 31.0 | 33.3 | 30.6 | 32.4 | 28.3 | 28.2 | 27.8 | 26.1 | 24.0 | 24.8 | 21.5 | 19.0 | -2.5 |
| 3.5-4.0 | - | 33.6 | 31.7 | 30.9 | 29.9 | 28.4 | 28.7 | 24.0 | 25.3 | 22.9 | 20.7 | 22.0 | 22.6 | +0.7 |
| 4.5-5.0 | - | 29.4 | 30.2 | 28.8 | 27.6 | 27.6 | 24.4 | 26.1 | 20.0 | 21.7 | 20.0 | 16.1 | 23.9 | +7.8 s |
| 5.5-6.0 (High) | - | 29.8 | 30.2 | 26.4 | 25.3 | 26.6 | 28.4 | 23.4 | 20.5 | 19.7 | 19.1 | 19.9 | 17.8 | -2.1 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 33.3 | 31.4 | 30.6 | 31.1 | 29.9 | 27.0 | 24.6 | 22.9 | 22.2 | 22.1 | 22.4 | +0.3 |
| African American | - | - | 17.1 | 20.9 | 21.6 | 19.8 | 19.3 | 20.0 | 20.0 | 17.2 | 14.2 | 16.1 | 14.1 | -1.9 |
| Hispanic | - | - | 28.6 | 32.2 | 34.5 | 26.2 | 25.2 | 24.7 | 25.5 | 26.8 | 21.9 | 16.3 | 18.6 | +2.3 |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes. Level of significance of difference between the two most recent classes: $s=.05, s s=.01$, $s s s=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms; $N$ is one sixth of $N$ indicated in Table S3. In 2011 Skyy Blue and Zima were deleted from the list of examples. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 113
ALCOHOLIC BEVERAGES CONTAINING CAFFEINE：
Trends in Annual Prevalence of Use by Subgroups in Grades 8，10，and 12
Percentage who used in last 12 months

|  | 8th Graders |  |  |  |  |  |  | 10th Graders |  |  |  |  |  |  | 12th Graders |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1991- \\ \underline{2010} \\ \hline \end{gathered}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  | $\begin{array}{r} 1991- \\ \underline{2010} \\ \hline \end{array}$ | 2011 | 2012 | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  | $\begin{gathered} 1975- \\ \underline{2010} \\ \hline \end{gathered}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{array}{r} 2014- \\ 2015 \\ \text { change } \end{array}$ |
| Approximate weighted $N=$ | － | 16，000 | 15，100 | 14，600 | 14，600 | 14，400 |  | － | 14，900 | 15，000 | 12，900 | 13，000 | 15，600 |  | － | 14，100 | 13，700 | 12，600 | 12，400 | 12，900 |  |
| Total | － | $11.8 \ddagger$ | 10.9 | 10.2 | 9.5 | 8.4 | －1．1 | － | $22.5 \ddagger$ | 19.7 | 16.9 | 14.3 | 12.8 | $-1.5$ | － | $26.4 \ddagger$ | 26.4 | 23.5 | 20.0 | 18.3 | $-1.7$ |
| Gender： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | － | $9.4 \ddagger$ | 9.6 | 8.4 | 9.2 | 7.6 | －1．6 | － | $20.4 \ddagger$ | 19.7 | 17.0 | 13.8 | 12.8 | －1．0 | － | $26.6 \ddagger$ | 28.8 | 26.9 | 21.7 | 19.6 | －2．1 |
| Female | － | 13．8 $\ddagger$ | 11.9 | 11.7 | 9.6 | 8.9 | －0．7 | － | 24．7 $\ddagger$ | 19.8 | 16.7 | 14.7 | 12.7 | －2．0 | － | 25．9才 | 23.7 | 20.1 | 18.5 | 17.4 | －1．2 |
| College Plans： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | － | $22.3 \ddagger$ | 19.1 | 21.6 | 22.9 | 19.3 | －3．5 | － | 34．1才 | 29.9 | 26.7 | 23.9 | 21.4 | －2．5 | － | $29.4 \ddagger$ | 28.7 | 29.7 | 23.7 | 22.5 | －1．1 |
| Complete 4 years | － | 11．0才 | 10.2 | 9.4 | 8.4 | 7.6 | －0．8 | － | $21.2 \ddagger$ | 18.7 | 15.9 | 13.2 | 11.9 | －1．3 | － | 25．6 $\ddagger$ | 25.3 | 22.0 | 19.1 | 17.4 | －1．7 |
| Region： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | － | $10.4 \ddagger$ | 8.7 | 11.5 | 6.7 | 7.4 | ＋0．7 | － | $26.4 \ddagger$ | 19.9 | 18.4 | 12.2 | 14.2 | ＋1．9 | － | 29．7 $\ddagger$ | 28.7 | 23.6 | 22.5 | 21.1 | －1．4 |
| Midwest | － | 10．3 $\ddagger$ | 8.6 | 8.7 | 10.3 | 8.6 | －1．8 | － | $17.4 \ddagger$ | 18.5 | 15.5 | 13.4 | 12.2 | －1．2 | － | 26．6 $\ddagger$ | 30.2 | 23.1 | 23.0 | 18.5 | －4．5 s |
| South | － | 12．9才 | 12.4 | 11.4 | 9.0 | 7.7 | －1．3 | － | 22．9\＃ | 19.5 | 16.6 | 14.9 | 12.4 | －2．4 | － | $23.8 \ddagger$ | 21.9 | 22.3 | 17.9 | 15.5 | －2．4 |
| West | － | 12．5 $\ddagger$ | 12.3 | 9.1 | 11.3 | 10.3 | －1．0 | － | 24．7 $\ddagger$ | 21.1 | 17.7 | 16.0 | 12.9 | －3．1 | － | $27.8 \ddagger$ | 26.4 | 25.6 | 18.7 | 20.6 | ＋2．0 |
| Population Density： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | － | $9.8 \ddagger$ | 10.6 | 9.6 | 7.8 | 7.3 | －0．5 | － | 21．7 $\ddagger$ | 17.4 | 14.0 | 13.8 | 11.6 | －2．2 | － | 27．9才 | 27.7 | 25.2 | 20.3 | 18.5 | －1．8 |
| Other MSA | － | 13．4 $\ddagger$ | 10.9 | 10.5 | 9.6 | 7.8 | －1．8 | － | 23．2才 | 20.1 | 18.2 | 13.4 | 13.5 | ＋0．1 | － | $27.4 \ddagger$ | 27.0 | 24.2 | 20.8 | 17.7 | －3．1 s |
| Non－MSA | － | $11.4 \ddagger$ | 11.3 | 10.5 | 11.4 | 11.1 | －0．3 | － | 22．1才 | 21.8 | 17.9 | 17.3 | 13.1 | －4．2 | － | 21．9才 | 22.6 | 19.3 | 17.6 | 19.3 | ＋1．7 |
| Parental Education：${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1．0－2．0（Low） | － | 19．0才 | 13.8 | 13.4 | 13.8 | 12.5 | －1．3 | － | 33．8才 | 23.7 | 21.7 | 16.8 | 18.4 | ＋1．6 | － | $26.5 \ddagger$ | 20.3 | 22.4 | 21.5 | 17.0 | －4．4 |
| 2．5－3．0 | － | 17．3 $\ddagger$ | 14.4 | 11.1 | 12.6 | 8.4 | －4．2 s | － | 25．6 $\ddagger$ | 23.2 | 20.9 | 18.2 | 14.6 | －3．7 | － | 28．1才 | 25.9 | 23.1 | 19.5 | 19.2 | －0．3 |
| 3．5－4．0 | － | $13.8 \ddagger$ | 13.3 | 13.1 | 10.9 | 11.5 | ＋0．6 | － | $25.5 \ddagger$ | 22.8 | 19.7 | 16.2 | 14.1 | －2．1 | － | 27．0才 | 30.3 | 25.3 | 20.2 | 18.3 | －1．8 |
| 4．5－5．0 | － | 8．3才 | 8.9 | 8.2 | 7.1 | 6.5 | －0．6 | － | 17．1才 | 18.8 | 13.4 | 12.8 | 11.5 | －1．3 | － | 24．7 $\ddagger$ | 26.8 | 22.8 | 20.5 | 19.3 | －1．2 |
| 5．5－6．0（High） | － | 7．0才 | 6.9 | 8.8 | 6.5 | 4.8 | －1．7 | － | 17．0才 | 12.4 | 12.7 | 9.8 | 10.7 | ＋0．9 | － | 26．3 $\ddagger$ | 24.2 | 22.3 | 20.1 | 19.0 | －1．2 |
| Race／Ethnicity（2－year average）：${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | － | － | － | 9.0 | 9.6 | 9.2 | －0．5 | － | － | － | 19.3 | 17.3 | 15.2 | －2．0 ss | － | － | － | 28.1 | 24.6 | 22.2 | $-2.4 \mathrm{~s}$ |
| African American | － | － | － | 7.3 | 5.9 | 5.6 | －0．3 | － | － | － | 10.4 | 7.6 | 7.2 | －0．4 | － | － | － | 11.5 | 11.6 | 11.2 | －0．3 |
| Hispanic | － | － | － | 14.5 | 11.5 | 9.4 | －2．0 s | － | － | － | 20.3 | 16.6 | 13.9 | －2．7 s | － | － | － | 23.0 | 18.9 | 16.3 | $-2.6 \mathrm{~s}$ |

Source．The Monitoring the Future study，the University of Michigan．
Notes．＇－＇indicates data not available．Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding．＇$\ddagger$＇indicates some change in the question．See relevant footnote for that drug． See relevant figure to assess the impact of the wording changes．See Tables S1 through S3 for the number of subgroup cases．See appendix B for definition of variables in table．For all grades：In 2012 the question text was changed from＂．．．had an alcoholic beverage containing caffeine（like Four Loko or Joose）＂to＂．．．had an alcoholic beverage mixed with an energy drink（like Red Bull）．＂The data in 2011 and 2012 are not comparable due to this question change．Data for 8th and 10th graders based on one of four forms；$N$ is one third of $N$ indicated in Tables S1 and S2．Data for 12th graders based on two of six forms； N is two sixths of N indicated in Table S3．
Caution：Limited sample sizes（see Notes above）．Use caution in interpreting subgroup trends．
${ }^{\text {a }}$ Parental education is an average score of mother＇s education and father＇s education．See appendix B for details．
${ }^{b}$ To derive percentages for each racial subgroup，data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates．See appendix $B$ for details on how race／ethnicity is defined．

## TABLE 114

## CIGARETTES: Trends in 30-Day Prevalence of Use by Subgroups in Grade 8

Percentage who used in last 30 days
2014-



| Total | 14.3 | 15.5 | 16.7 | 18.6 | 19.1 | 21.0 | 19.4 | 19.1 | 17.5 | 14.6 | 12.2 | 10.7 | 10.2 | 9.2 | 9.3 | 8.7 | 7.1 | 6.8 | 6.5 | 7.1 | 6.1 | 4.9 | 4.5 | 4.0 | 3.6 | -0.4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 15.5 | 14.9 | 17.2 | 19.3 | 18.8 | 20.6 | 19.1 | 18.0 | 16.7 | 14.3 | 12.2 | 11.0 | 9.6 | 8.3 | 8.7 | 8.1 | 7.5 | 6.7 | 6.7 | 7.4 | 6.2 | 4.6 | 4.0 | 3.5 | 3.3 | -0.2 |
| Female | 13.1 | 15.9 | 16.3 | 17.9 | 19.0 | 21.1 | 19.5 | 19.8 | 17.7 | 14.7 | 12.0 | 10.4 | 10.6 | 9.9 | 9.7 | 8.9 | 6.4 | 6.7 | 6.0 | 6.8 | 5.7 | 4.9 | 4.7 | 4.2 | 3.7 | -0.6 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 29.2 | 31.9 | 34.1 | 36.6 | 36.5 | 39.2 | 40.0 | 40.1 | 40.3 | 34.7 | 30.0 | 29.3 | 27.8 | 25.6 | 26.7 | 23.2 | 23.9 | 21.1 | 19.5 | 22.8 | 18.2 | 17.3 | 15.0 | 13.1 | 11.7 | -1.5 |
| Complete 4 years | 11.8 | 13.1 | 14.3 | 16.1 | 16.8 | 18.2 | 16.9 | 16.5 | 14.5 | 12.2 | 10.0 | 8.9 | 8.3 | 7.4 | 7.4 | 7.1 | 5.4 | 5.5 | 5.3 | 5.7 | 5.1 | 3.9 | 3.8 | 3.1 | 2.8 | -0.3 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 13.7 | 14.4 | 15.0 | 17.8 | 18.6 | 22.1 | 18.0 | 15.6 | 15.7 | 13.7 | 11.4 | 9.1 | 7.7 | 7.2 | 7.8 | 6.7 | 3.7 | 5.9 | 5.6 | 6.0 | 4.4 | 4.2 | 3.5 | 3.4 | 2.2 | -1.2 |
| Midwest | 15.5 | 16.5 | 16.3 | 18.5 | 20.9 | 23.2 | 20.0 | 22.3 | 21.3 | 17.1 | 12.0 | 11.0 | 12.2 | 10.8 | 9.5 | 9.3 | 7.8 | 8.1 | 7.0 | 8.6 | 6.4 | 3.9 | 4.4 | 3.5 | 4.5 | +1.0 |
| South | 15.7 | 17.0 | 18.2 | 19.5 | 19.4 | 21.1 | 21.0 | 21.1 | 18.7 | 14.7 | 14.3 | 13.0 | 11.7 | 10.3 | 11.6 | 10.9 | 8.6 | 7.7 | 7.7 | 8.5 | 6.8 | 6.9 | 5.8 | 4.6 | 4.0 | -0.6 |
| West | 10.0 | 12.2 | 16.4 | 18.0 | 16.5 | 17.1 | 17.1 | 15.1 | 12.1 | 12.2 | 9.3 | 7.5 | 7.0 | 7.4 | 6.3 | 5.7 | 5.8 | 5.2 | 4.6 | 4.0 | 6.1 | 3.0 | 3.0 | 3.9 | 2.9 | -0.9 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 12.8 | 15.0 | 14.1 | 15.5 | 16.5 | 19.4 | 15.8 | 16.4 | 12.7 | 12.1 | 9.3 | 7.5 | 7.7 | 7.7 | 6.7 | 6.4 | 4.7 | 5.2 | 4.2 | 4.8 | 4.0 | 3.6 | 2.5 | 2.8 | 2.2 | -0.7 |
| Other MSA | 14.9 | 15.3 | 17.8 | 20.7 | 19.4 | 21.4 | 19.7 | 17.7 | 16.0 | 13.1 | 11.6 | 10.6 | 9.8 | 8.9 | 9.8 | 8.8 | 7.6 | 7.5 | 6.9 | 7.6 | 7.0 | 5.1 | 4.3 | 3.7 | 3.5 | -0.1 |
| Non-MSA | 14.8 | 16.4 | 17.9 | 17.8 | 21.5 | 22.1 | 22.8 | 24.8 | 26.1 | 21.1 | 16.9 | 14.9 | 14.4 | 11.6 | 11.8 | 11.6 | 9.5 | 7.9 | 8.5 | 9.2 | 7.7 | 6.9 | 8.0 | 6.6 | 5.9 | -0.7 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 26.2 | 24.1 | 23.3 | 26.1 | 25.3 | 26.5 | 26.9 | 26.7 | 26.6 | 22.0 | 20.3 | 20.3 | 17.5 | 15.8 | 16.6 | 14.7 | 13.8 | 12.1 | 10.5 | 11.4 | 9.2 | 7.6 | 6.3 | 5.8 | 5.9 | +0.2 |
| 2.5-3.0 | 16.4 | 16.9 | 19.8 | 20.6 | 22.7 | 24.4 | 22.4 | 23.9 | 23.5 | 19.6 | 16.4 | 14.5 | 14.8 | 12.2 | 13.4 | 12.5 | 10.2 | 8.7 | 8.8 | 10.2 | 9.8 | 7.4 | 6.5 | 6.2 | 4.6 | -1.6 |
| 3.5-4.0 | 13.9 | 14.9 | 17.4 | 20.1 | 20.8 | 21.4 | 20.9 | 21.4 | 17.0 | 14.7 | 12.6 | 10.5 | 9.6 | 9.6 | 10.5 | 8.8 | 7.8 | 7.3 | 7.1 | 8.0 | 6.3 | 5.7 | 5.6 | 4.8 | 3.5 | -1.3 |
| 4.5-5.0 | 10.1 | 13.3 | 12.5 | 14.9 | 14.9 | 18.4 | 16.2 | 14.2 | 12.3 | 10.2 | 8.3 | 7.8 | 6.7 | 6.7 | 5.9 | 5.5 | 3.9 | 4.7 | 4.4 | 4.9 | 3.9 | 3.0 | 2.4 | 2.6 | 2.5 | -0.2 |
| 5.5-6.0 (High) | 11.3 | 11.5 | 13.3 | 15.1 | 14.5 | 17.3 | 15.3 | 13.8 | 12.2 | 9.8 | 6.9 | 5.8 | 6.0 | 5.2 | 4.3 | 4.8 | 2.4 | 4.1 | 3.5 | 2.9 | 3.1 | 2.6 | 2.9 | 1.7 | 2.1 | +0.4 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 16.2 | 17.8 | 18.9 | 20.7 | 22.7 | 22.8 | 21.5 | 20.1 | 17.7 | 14.7 | 12.0 | 10.9 | 10.0 | 9.4 | 9.3 | 8.1 | 7.2 | 7.3 | 7.6 | 7.2 | 5.8 | 4.7 | 4.4 | 4.2 | -0.3 |
| African American | - | 5.3 | 6.6 | 8.7 | 8.9 | 9.6 | 10.9 | 10.6 | 10.7 | 9.6 | 8.2 | 7.7 | 6.9 | 6.9 | 7.1 | 6.0 | 5.1 | 4.6 | 4.4 | 4.3 | 4.1 | 4.0 | 3.5 | 2.6 | 2.2 | -0.4 |
| Hispanic | - | 16.7 | 18.3 | 21.3 | 21.6 | 19.6 | 19.1 | 20.1 | 20.5 | 16.6 | 13.0 | 12.8 | 11.9 | 10.1 | 9.0 | 8.8 | 8.0 | 7.0 | 6.5 | 6.7 | 6.9 | 5.5 | 4.0 | 3.5 | 3.0 | -0.5 |

[^21]'Parental education is an average score of mother's education and father's education. See appendix $B$ for details.
To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 115
CIGARETTES: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10

Percentage who used in last 30 days
2014-
$\underline{19} 1 \underline{1991} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015} \quad \underline{15 a n g e}$



| Hispanic | - | 18.3 | 20.5 |
| :--- | :--- | :--- | :--- |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |

 rounding. See Table $\mathbf{S} 2$ for the number of subgroup cases. See appendix B for definition of variables in table.

To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 116
CIGARETTES: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |
| Total | 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 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 37.2 | 37.7 | 36.6 | 34.5 | 31.2 | 26.8 | 26.5 | 26.8 | 28.0 | 25.9 | 28.2 | 27.9 | 27.0 | 28.0 | 27.7 | 29.1 | 29.0 | 29.2 | 30.7 | 32.9 |
| Female | 35.9 | 39.1 | 39.6 | 38.1 | 37.1 | 33.4 | 31.6 | 32.6 | 31.6 | 31.9 | 31.4 | 30.6 | 31.4 | 28.9 | 29.0 | 29.2 | 27.5 | 26.1 | 28.7 | 29.2 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 46.3 | 46.2 | 44.6 | 43.0 | 39.6 | 38.1 | 38.7 | 38.0 | 37.9 | 40.5 | 38.5 | 39.7 | 37.5 | 38.0 | 37.5 | 38.1 | 38.6 | 37.3 | 40.9 |
| Complete 4 years | - | 29.8 | 29.4 | 27.4 | 26.0 | 22.3 | 22.3 | 22.1 | 23.3 | 22.7 | 22.8 | 24.0 | 24.3 | 24.4 | 24.1 | 25.4 | 24.2 | 23.8 | 27.3 | 28.0 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 40.1 | 41.8 | 43.0 | 40.6 | 37.0 | 34.1 | 31.5 | 32.1 | 34.6 | 33.5 | 34.2 | 35.2 | 34.1 | 31.2 | 29.4 | 31.9 | 30.5 | 29.6 | 34.2 | 33.2 |
| Midwest | 39.5 | 41.3 | 40.5 | 39.0 | 36.6 | 31.5 | 32.4 | 33.5 | 33.2 | 31.4 | 34.1 | 32.5 | 31.7 | 31.1 | 34.9 | 34.0 | 34.6 | 31.7 | 33.2 | 36.2 |
| South | 36.2 | 39.1 | 37.6 | 35.7 | 35.4 | 31.8 | 28.9 | 29.4 | 28.7 | 28.6 | 25.6 | 26.1 | 26.0 | 28.0 | 26.4 | 26.1 | 25.4 | 26.4 | 29.0 | 30.7 |
| West | 26.3 | 28.3 | 27.7 | 27.3 | 24.8 | 21.2 | 21.8 | 20.4 | 21.8 | 22.9 | 26.3 | 23.3 | 26.6 | 23.9 | 22.7 | 25.1 | 23.2 | 22.8 | 22.9 | 24.0 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 39.7 | 40.4 | 40.9 | 37.5 | 33.4 | 31.2 | 30.6 | 32.1 | 30.8 | 31.3 | 31.9 | 30.8 | 29.3 | 26.9 | 25.9 | 27.9 | 26.2 | 25.6 | 29.5 | 29.0 |
| Other MSA | 35.1 | 35.9 | 36.1 | 34.3 | 33.5 | 29.7 | 27.4 | 27.8 | 29.1 | 28.2 | 28.5 | 28.0 | 28.2 | 28.3 | 28.2 | 29.6 | 29.3 | 26.9 | 29.8 | 31.1 |
| Non-MSA | 36.7 | 40.9 | 39.2 | 39.4 | 36.4 | 30.9 | 30.9 | 31.2 | 31.5 | 29.3 | 30.8 | 31.0 | 31.8 | 31.4 | 32.2 | 30.4 | 28.6 | 31.5 | 30.3 | 33.8 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 37.2 | 43.2 | 39.6 | 38.1 | 38.1 | 32.7 | 32.5 | 32.6 | 32.7 | 33.6 | 32.3 | 28.6 | 28.8 | 28.1 | 25.4 | 26.3 | 31.3 | 27.1 | 26.5 | 26.2 |
| 2.5-3.0 | 37.0 | 41.2 | 40.8 | 39.3 | 35.9 | 34.2 | 31.7 | 32.0 | 32.2 | 31.8 | 32.3 | 32.3 | 31.4 | 29.9 | 30.8 | 30.8 | 28.7 | 30.3 | 30.4 | 32.8 |
| 3.5-4.0 | 31.9 | 35.3 | 37.3 | 34.0 | 33.3 | 28.0 | 28.2 | 29.0 | 28.0 | 28.1 | 29.7 | 29.7 | 28.8 | 27.8 | 29.4 | 29.3 | 28.4 | 27.8 | 29.9 | 31.4 |
| 4.5-5.0 | 32.3 | 35.0 | 33.0 | 32.6 | 30.1 | 25.7 | 26.0 | 25.5 | 27.8 | 25.2 | 27.7 | 26.4 | 27.6 | 28.6 | 27.0 | 29.1 | 26.9 | 25.8 | 30.1 | 32.0 |
| 5.5-6.0 (High) | 26.8 | 30.8 | 32.8 | 31.9 | 29.6 | 24.0 | 22.5 | 25.1 | 25.5 | 23.7 | 22.6 | 26.7 | 29.3 | 27.8 | 26.3 | 28.6 | 27.1 | 25.5 | 30.5 | 30.4 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 38.3 | 37.6 | 36.0 | 33.0 | 30.5 | 30.7 | 31.3 | 31.2 | 31.3 | 31.9 | 32.1 | 32.2 | 32.2 | 32.3 | 32.2 | 31.8 | 33.2 | 35.2 |
| African American | - | - | 36.7 | 32.7 | 30.2 | 26.8 | 23.7 | 21.8 | 21.2 | 19.3 | 18.1 | 16.9 | 14.2 | 13.3 | 12.6 | 12.2 | 10.6 | 8.7 | 9.5 | 10.9 |
| Hispanic | - | - | 35.7 | 32.8 | 26.8 | 22.6 | 23.2 | 24.7 | 24.7 | 25.3 | 25.5 | 23.7 | 22.7 | 21.9 | 20.6 | 21.7 | 24.0 | 25.0 | 24.2 | 23.6 |

## TABLE 116 (cont.)

## CIGARETTES: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12



Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $s=.05, \mathrm{ss}=.01, \mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 117
CIGARETTES: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 8

Percentage who used daily in last 30 days
2014-




| Hispanic | - | 7.3 | 7.2 |
| :--- | :--- | :--- | :--- |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |

 See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table,
${ }^{2}$ Parental education is an average score of mother's education and father's education. See appendix $B$ for details,
${ }^{5}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

## TABLE 118

## CIGARETTES: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 10




| Total | 12.6 | 12.3 | 14.2 | 14.6 | 16.3 | 18.3 | 18.0 | 15.8 | 15.9 | 14.0 | 12.2 | 10.1 | 8.9 | 8.3 | 7.5 | 7.6 | 7.2 | 5.9 | 6.3 | 6.6 | 5.5 | 5.0 | 4.4 | 3.2 | 3.0 | -0.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 12.4 | 12.1 | 13.8 | 15.2 | 16.3 | 18.1 | 17.2 | 14.7 | 15.6 | 13.7 | 12.4 | 9.4 | 8.6 | 8.2 | 7.2 | 6.9 | 7.7 | 6.2 | 6.9 | 7.2 | 6.4 | 5.6 | 5.4 | 3.5 | 2.8 | -0.8 |
| Female | 12.5 | 12.4 | 14.3 | 13.7 | 16.1 | 18.6 | 18.5 | 16.8 | 15.9 | 14.1 | 11.9 | 10.8 | 9.0 | 8.2 | 7.7 | 8.1 | 6.6 | 5.5 | 5.6 | 5.9 | 4.5 | 4.4 | 3.4 | 2.8 | 2.8 | 0.0 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 25.7 | 25.5 | 28.9 | 28.9 | 32.7 | 34.3 | 35.4 | 31.7 | 32.1 | 28.8 | 27.3 | 22.9 | 22.1 | 21.4 | 19.2 | 21.7 | 18.9 | 17.9 | 17.3 | 19.1 | 17.1 | 17.0 | 13.4 | 10.5 | 10.8 | +0.2 |
| Complete 4 years | 9.6 | 9.5 | 11.0 | 11.5 | 13.3 | 15.5 | 15.0 | 12.9 | 13.2 | 11.6 | 9.6 | 7.9 | 6.7 | 6.4 | 5.9 | 5.6 | 5.6 | 4.3 | 5.0 | 5.0 | 4.2 | 3.7 | 3.4 | 2.3 | 2.0 | -0.3 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 14.3 | 13.1 | 16.3 | 14.1 | 15.8 | 18.8 | 18.0 | 18.7 | 17.7 | 14.1 | 11.0 | 8.3 | 8.6 | 8.5 | 7.6 | 6.2 | 6.8 | 5.3 | 5.3 | 5.7 | 6.3 | 5.1 | 3.6 | 2.8 | 2.7 | -0.1 |
| Midwest | 14.3 | 14.3 | 15.1 | 16.9 | 17.6 | 20.6 | 19.5 | 17.3 | 19.6 | 16.3 | 13.2 | 11.5 | 10.2 | 7.4 | 8.6 | 10.3 | 10.0 | 7.6 | 5.8 | 7.3 | 5.7 | 4.4 | 4.9 | 3.9 | 2.8 | -1.1 |
| South | 12.8 | 11.4 | 13.9 | 15.5 | 19.3 | 20.5 | 20.5 | 17.1 | 16.3 | 15.7 | 14.3 | 11.3 | 10.1 | 11.0 | 8.8 | 8.4 | 7.2 | 6.9 | 8.5 | 7.9 | 6.6 | 6.9 | 5.7 | 3.4 | 3.6 | +0.2 |
| West | 9.1 | 10.7 | 10.9 | 9.7 | 9.4 | 10.7 | 11.1 | 8.8 | 9.1 | 7.8 | 7.0 | 7.8 | 6.0 | 5.2 | 4.0 | 4.2 | 4.7 | 3.4 | 4.3 | 4.4 | 3.0 | 2.6 | 3.1 | 2.4 | 2.3 | -0.1 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 12.3 | 11.7 | 12.3 | 12.0 | 12.6 | 15.3 | 15.7 | 12.2 | 13.2 | 13.8 | 9.6 | 7.4 | 6.1 | 5.6 | 5.5 | 5.4 | 5.7 | 4.3 | 5.2 | 4.8 | 4.3 | 3.6 | 2.3 | 2.5 | 2.1 | -0.3 |
| Other MSA | 11.7 | 11.6 | 13.6 | 15.5 | 17.5 | 18.8 | 16.9 | 15.1 | 15.5 | 12.1 | 11.6 | 10.4 | 8.7 | 8.1 | 7.0 | 6.7 | 7.2 | 6.2 | 6.0 | 6.3 | 5.3 | 4.7 | 4.8 | 2.6 | 2.5 | -0.1 |
| Non-MSA | 14.3 | 14.5 | 16.9 | 15.5 | 18.4 | 20.8 | 22.5 | 21.1 | 19.7 | 17.5 | 16.3 | 13.1 | 13.7 | 12.3 | 11.4 | 13.2 | 9.6 | 7.5 | 8.5 | 9.7 | 7.6 | 7.4 | 6.8 | 5.7 | 5.5 | -0.2 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 16.0 | 17.8 | 19.3 | 15.5 | 20.0 | 19.3 | 17.7 | 17.4 | 20.1 | 18.9 | 12.9 | 14.1 | 15.3 | 11.4 | 9.9 | 12.5 | 9.8 | 7.6 | 9.4 | 10.0 | 8.2 | 8.0 | 6.8 | 4.6 | 5.2 | +0.6 |
| 2.5-3.0 | 15.5 | 13.9 | 16.9 | 17.6 | 21.6 | 23.1 | 22.1 | 21.3 | 19.1 | 17.6 | 16.2 | 14.7 | 12.7 | 11.5 | 11.1 | 11.9 | 10.8 | 8.7 | 8.7 | 10.1 | 8.9 | 7.5 | 7.2 | 4.7 | 4.6 | -0.1 |
| 3.5-4.0 | 12.0 | 11.8 | 13.6 | 15.9 | 17.0 | 19.4 | 18.9 | 14.9 | 16.6 | 14.2 | 12.2 | 10.0 | 8.8 | 9.3 | 7.9 | 7.8 | 7.2 | 6.7 | 6.7 | 7.1 | 5.6 | 4.5 | 4.7 | 3.9 | 3.4 | -0.5 |
| 4.5-5.0 | 10.6 | 10.5 | 10.7 | 11.5 | 12.6 | 14.8 | 15.6 | 12.9 | 13.0 | 11.5 | 9.7 | 6.8 | 5.8 | 5.4 | 5.2 | 4.4 | 5.5 | 3.8 | 4.6 | 3.9 | 3.3 | 4.3 | 2.8 | 1.8 | 2.1 | +0.3 |
| 5.5-6.0 (High) | 9.6 | 9.0 | 10.5 | 9.6 | 10.3 | 13.6 | 12.0 | 11.1 | 11.2 | 9.8 | 8.3 | 6.4 | 4.5 | 4.2 | 4.4 | 4.3 | 3.5 | 3.0 | 3.5 | 3.1 | 2.5 | 2.8 | 1.9 | 1.6 | 1.0 | -0.6 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 14.5 | 15.3 | 16.5 | 17.6 | 20.0 | 21.4 | 20.3 | 19.1 | 17.7 | 15.5 | 13.3 | 11.4 | 10.0 | 9.1 | 8.7 | 8.8 | 8.0 | 7.1 | 7.4 | 7.1 | 6.2 | 5.7 | 4.8 | 3.5 | -1.2 sss |
| African American | - | 2.8 | 3.1 | 3.8 | 4.7 | 5.1 | 5.6 | 5.8 | 5.3 | 5.2 | 5.2 | 5.0 | 4.3 | 4.4 | 3.9 | 3.3 | 3.2 | 3.0 | 3.2 | 3.5 | 3.5 | 2.9 | 2.6 | 2.3 | 2.1 | -0.2 |
| Hispanic | - | 8.4 | 8.9 | 8.1 | 9.9 | 11.6 | 10.8 | 9.4 | 9.1 | 8.8 | 7.4 | 6.4 | 6.0 | 6.0 | 5.9 | 5.3 | 3.8 | 3.8 | 4.5 | 4.4 | 3.8 | 3.0 | 2.6 | 2.3 | 2.1 | -0.2 |

Source. The Monitoring the Future study, the University of Michigan.
 See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix $B$ for details.
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 119
CIGARETTES: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 12

|  | Percentage who used daily in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{1975}$ | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | $\underline{1985}$ | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |
| Total | 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 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 26.9 | 28.0 | 27.1 | 26.0 | 22.3 | 18.5 | 18.1 | 18.2 | 19.2 | 16.0 | 17.8 | 16.9 | 16.4 | 17.4 | 17.9 | 18.6 | 18.8 | 17.2 | 19.4 | 20.4 |
| Female | 26.4 | 28.8 | 30.0 | 28.3 | 27.8 | 23.5 | 21.7 | 23.2 | 22.2 | 20.5 | 20.6 | 19.8 | 20.6 | 18.1 | 19.4 | 19.3 | 17.9 | 16.7 | 18.2 | 18.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 36.5 | 37.2 | 35.2 | 33.8 | 29.7 | 29.3 | 29.5 | 29.3 | 27.2 | 29.6 | 28.2 | 29.0 | 27.4 | 27.9 | 28.3 | 28.4 | 28.1 | 27.8 | 29.8 |
| Complete 4 years | - | 19.8 | 19.3 | 18.3 | 17.0 | 13.8 | 12.9 | 13.2 | 13.8 | 11.9 | 12.4 | 12.8 | 13.3 | 13.4 | 14.6 | 14.7 | 14.1 | 12.9 | 15.9 | 15.7 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 31.4 | 32.3 | 33.8 | 32.5 | 28.6 | 24.1 | 23.3 | 23.4 | 26.1 | 23.6 | 24.9 | 24.9 | 24.8 | 21.4 | 21.3 | 22.8 | 20.9 | 19.4 | 23.5 | 21.3 |
| Midwest | 28.6 | 30.2 | 29.4 | 28.6 | 27.0 | 22.0 | 23.0 | 24.0 | 23.4 | 20.4 | 22.4 | 19.9 | 20.3 | 19.0 | 23.0 | 22.2 | 23.0 | 19.0 | 21.3 | 23.8 |
| South | 26.2 | 29.1 | 28.7 | 26.4 | 25.8 | 22.6 | 19.1 | 20.2 | 19.4 | 17.7 | 16.0 | 15.8 | 15.7 | 17.7 | 17.1 | 16.5 | 16.4 | 16.7 | 18.5 | 19.3 |
| West | 17.3 | 19.4 | 19.2 | 19.1 | 17.0 | 14.0 | 13.1 | 12.7 | 13.0 | 12.4 | 14.2 | 13.4 | 14.9 | 14.0 | 13.8 | 14.8 | 13.9 | 13.3 | 13.0 | 12.4 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 30.8 | 30.4 | 30.9 | 29.2 | 24.5 | 21.6 | 21.9 | 23.5 | 22.1 | 21.5 | 21.9 | 20.6 | 20.3 | 18.0 | 16.7 | 19.0 | 16.7 | 16.6 | 17.3 | 17.7 |
| Other MSA | 25.6 | 27.1 | 27.2 | 25.7 | 25.0 | 21.3 | 19.0 | 19.3 | 20.2 | 17.4 | 17.7 | 17.0 | 17.6 | 17.7 | 19.0 | 19.0 | 19.0 | 15.9 | 19.7 | 19.2 |
| Non-MSA | 25.8 | 29.5 | 29.1 | 28.7 | 26.5 | 21.2 | 20.7 | 21.3 | 21.7 | 18.2 | 19.9 | 19.8 | 19.3 | 18.8 | 20.9 | 19.5 | 19.0 | 20.3 | 19.2 | 21.6 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 27.2 | 32.7 | 29.6 | 28.6 | 29.1 | 23.7 | 24.1 | 24.6 | 24.0 | 23.2 | 22.7 | 20.4 | 19.7 | 19.2 | 17.1 | 16.7 | 21.2 | 16.5 | 17.6 | 16.9 |
| 2.5-3.0 | 27.2 | 31.3 | 31.5 | 30.3 | 26.5 | 24.7 | 22.5 | 23.1 | 23.2 | 21.5 | 21.8 | 21.4 | 21.1 | 19.6 | 21.5 | 21.0 | 19.8 | 20.4 | 20.2 | 22.4 |
| 3.5-4.0 | 22.1 | 25.8 | 28.1 | 24.8 | 24.5 | 19.4 | 19.0 | 19.7 | 18.8 | 16.4 | 19.3 | 19.4 | 17.8 | 17.5 | 19.0 | 19.3 | 18.5 | 16.9 | 18.9 | 18.9 |
| 4.5-5.0 | 22.9 | 24.5 | 23.7 | 23.2 | 21.2 | 16.6 | 16.1 | 16.8 | 17.5 | 14.1 | 16.0 | 13.9 | 16.5 | 16.5 | 17.2 | 18.3 | 16.2 | 15.0 | 18.9 | 18.7 |
| 5.5-6.0 (High) | 17.4 | 22.8 | 21.7 | 22.8 | 20.6 | 15.0 | 13.9 | 14.5 | 17.2 | 14.1 | 11.2 | 13.6 | 16.6 | 15.1 | 15.8 | 16.5 | 16.1 | 12.8 | 16.6 | 17.3 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 28.9 | 28.3 | 26.9 | 23.9 | 21.4 | 21.6 | 22.1 | 21.0 | 20.4 | 20.6 | 20.5 | 20.6 | 21.1 | 21.8 | 21.5 | 20.5 | 21.4 | 22.9 |
| African American | - | - | 24.9 | 22.7 | 20.9 | 17.4 | 14.6 | 13.1 | 12.5 | 10.7 | 9.9 | 9.4 | 7.9 | 7.3 | 6.4 | 5.8 | 5.1 | 4.2 | 4.1 | 4.9 |
| Hispanic | - | - | 22.6 | 20.4 | 15.8 | 12.8 | 13.6 | 14.3 | 14.9 | 13.9 | 11.8 | 11.3 | 11.0 | 10.9 | 10.8 | 10.9 | 11.5 | 12.5 | 11.8 | 10.6 |

## TABLE 119 (cont.)

CIGARETTES: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 12

|  | Percentage who used daily in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | change |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 21.6 | 22.2 | 24.6 | 22.4 | 23.1 | 20.6 | 19.0 | 16.9 | 15.8 | 15.6 | 13.6 | 12.2 | 12.3 | 11.4 | 11.2 | 10.7 | 10.3 | 9.3 | 8.5 | 6.7 | 5.5 | $-1.2 \mathrm{~s}$ |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 21.7 | 22.2 | 24.8 | 22.7 | 23.6 | 20.9 | 18.4 | 17.2 | 17.0 | 15.4 | 14.6 | 12.0 | 13.0 | 12.0 | 11.8 | 12.3 | 11.6 | 10.9 | 9.7 | 7.9 | 6.6 | -1.3 |
| Female | 20.8 | 21.8 | 23.6 | 21.5 | 22.2 | 19.7 | 18.9 | 16.1 | 14.0 | 15.0 | 11.9 | 11.8 | 11.2 | 10.6 | 9.9 | 8.7 | 8.6 | 7.3 | 6.5 | 5.4 | 3.9 | -1.4 ss |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 33.7 | 33.2 | 35.6 | 34.6 | 34.2 | 31.7 | 30.1 | 27.6 | 27.9 | 26.9 | 24.9 | 22.8 | 22.5 | 21.1 | 20.9 | 21.6 | 21.0 | 18.4 | 18.8 | 14.0 | 14.1 | +0.1 |
| Complete 4 years | 17.4 | 18.9 | 20.6 | 18.4 | 19.5 | 16.6 | 15.5 | 13.8 | 12.1 | 12.2 | 10.5 | 9.4 | 9.9 | 9.0 | 8.6 | 8.2 | 7.9 | 7.0 | 5.8 | 5.0 | 3.5 | -1.5 sss |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 22.5 | 27.0 | 29.4 | 23.4 | 23.2 | 22.8 | 21.9 | 18.4 | 16.4 | 16.2 | 13.3 | 14.3 | 14.3 | 11.3 | 10.8 | 10.3 | 10.2 | 11.3 | 9.8 | 6.8 | 5.4 | -1.4 |
| Midwest | 25.7 | 26.1 | 28.0 | 27.8 | 25.9 | 23.6 | 25.2 | 22.5 | 18.2 | 18.5 | 16.3 | 13.2 | 14.5 | 12.9 | 15.4 | 12.5 | 11.7 | 11.6 | 8.4 | 6.6 | 6.6 | +0.1 |
| South | 21.7 | 20.5 | 22.6 | 21.8 | 24.2 | 19.4 | 15.5 | 16.6 | 16.3 | 15.8 | 15.4 | 13.3 | 12.9 | 13.1 | 11.4 | 12.3 | 10.8 | 9.0 | 10.5 | 8.2 | 6.1 | -2.1 s |
| West | 14.5 | 13.8 | 17.5 | 15.5 | 17.3 | 16.9 | 13.4 | 9.5 | 11.8 | 10.1 | 7.6 | 7.0 | 7.4 | 7.0 | 5.9 | 6.7 | 7.9 | 5.8 | 4.6 | 4.5 | 3.5 | -1.0 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 21.3 | 20.7 | 23.7 | 20.6 | 18.6 | 16.7 | 17.4 | 15.0 | 11.5 | 12.6 | 11.4 | 10.3 | 10.3 | 8.9 | 8.6 | 9.9 | 9.2 | 8.3 | 7.2 | 5.4 | 4.0 | -1.4 |
| Other MSA | 19.9 | 21.9 | 23.9 | 21.2 | 22.8 | 21.1 | 17.5 | 16.7 | 15.9 | 16.1 | 12.7 | 11.5 | 11.7 | 11.2 | 11.0 | 9.9 | 9.5 | 8.2 | 7.9 | 6.3 | 5.0 | $-1.4 \mathrm{~s}$ |
| Non-MSA | 24.8 | 24.1 | 26.8 | 27.2 | 28.5 | 24.5 | 23.9 | 19.8 | 21.4 | 18.0 | 18.2 | 16.2 | 16.6 | 14.8 | 15.1 | 14.0 | 13.7 | 13.5 | 11.8 | 9.6 | 9.4 | -0.3 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 21.3 | 21.1 | 21.9 | 21.7 | 23.8 | 22.8 | 16.4 | 12.4 | 15.1 | 14.2 | 11.7 | 11.4 | 14.6 | 11.9 | 11.2 | 8.9 | 9.9 | 9.6 | 10.2 | 6.9 | 7.2 | +0.2 |
| 2.5-3.0 | 24.6 | 24.4 | 26.0 | 24.7 | 26.9 | 22.9 | 21.9 | 19.8 | 18.3 | 19.4 | 18.3 | 16.1 | 15.1 | 13.4 | 14.7 | 13.9 | 13.5 | 11.6 | 10.4 | 8.9 | 7.8 | -1.1 |
| 3.5-4.0 | 21.6 | 21.2 | 23.8 | 23.8 | 23.6 | 21.2 | 19.9 | 19.1 | 16.5 | 16.3 | 14.4 | 12.3 | 12.3 | 12.5 | 11.5 | 11.6 | 10.7 | 11.2 | 10.0 | 6.7 | 5.8 | -1.0 |
| 4.5-5.0 | 19.7 | 22.4 | 24.9 | 20.6 | 20.6 | 18.6 | 17.9 | 14.1 | 13.0 | 13.7 | 11.7 | 10.4 | 11.2 | 9.0 | 9.0 | 8.7 | 8.2 | 7.1 | 6.4 | 5.8 | 3.7 | -2.0 ss |
| 5.5-6.0 (High) | 18.5 | 20.0 | 22.9 | 17.4 | 19.0 | 15.2 | 13.4 | 14.3 | 11.3 | 10.3 | 8.1 | 8.3 | 7.4 | 9.1 | 5.8 | 6.1 | 6.7 | 4.7 | 3.6 | 4.7 | 3.1 | -1.7 s |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 23.9 | 25.4 | 27.8 | 28.3 | 26.9 | 25.7 | 23.8 | 21.8 | 19.5 | 18.3 | 17.1 | 15.3 | 14.5 | 14.3 | 13.9 | 13.5 | 13.0 | 12.1 | 10.9 | 9.3 | 7.3 | -2.0 sss |
| African American | 6.1 | 7.0 | 7.2 | 7.4 | 7.7 | 8.0 | 7.5 | 6.4 | 5.4 | 5.2 | 5.6 | 5.7 | 5.8 | 5.8 | 5.4 | 5.3 | 4.9 | 4.7 | 5.3 | 5.1 | 4.1 | -1.0 |
| Hispanic | 11.6 | 12.9 | 14.0 | 13.6 | 14.0 | 15.7 | 12.0 | 9.2 | 8.0 | 8.2 | 7.7 | 7.0 | 6.6 | 6.7 | 6.4 | 5.7 | 5.3 | 4.9 | 4.7 | 4.1 | 3.7 | -0.4 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $s=.05, \mathrm{ss}=.01, \mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix $B$ for details.
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

## TABLE 120

CIGARETTES: Trends in 30-Day Prevalence of Use of Half Pack a Day or More by Subgroups in Grade 8

Percentage who used half pack a day or more in last 30 days
2014-



| Total | 3.1 | 2.9 | 3.5 | 3.6 | 3.4 | 4.3 | 3.5 | 3.6 | 3.3 | 2.8 | 2.3 | 2.1 | 1.8 | 1.7 | 1.7 | 1.5 | 1.1 | 1.2 | 1.0 | 0.9 | 0.7 | 0.6 | 0.7 | 0.5 | 0.4 | -0.1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 3.7 | 3.1 | 4.3 | 4.2 | 3.7 | 4.7 | 3.7 | 3.5 | 3.1 | 2.8 | 2.6 | 2.4 | 1.8 | 1.7 | 2.0 | 1.7 | 1.3 | 1.4 | 1.2 | 1.1 | 0.7 | 0.8 | 0.9 | 0.5 | 0.5 | -0.1 |
| Female | 2.4 | 2.7 | 2.7 | 2.9 | 3.2 | 3.7 | 3.1 | 3.3 | 3.3 | 2.6 | 2.0 | 1.9 | 1.7 | 1.7 | 1.3 | 1.3 | 0.8 | 0.9 | 0.7 | 0.7 | 0.6 | 0.3 | 0.5 | 0.4 | 0.3 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 10.1 | 10.8 | 11.9 | 11.7 | 11.4 | 13.5 | 11.6 | 13.8 | 13.4 | 10.3 | 9.8 | 8.4 | 7.5 | 7.4 | 7.7 | 5.8 | 4.7 | 4.7 | 4.7 | 4.6 | 3.0 | 3.0 | 4.0 | 1.8 | 2.4 | +0.6 |
| Complete 4 years | 1.9 | 1.7 | 2.2 | 2.4 | 2.3 | 2.8 | 2.4 | 2.2 | 2.0 | 1.8 | 1.4 | 1.5 | 1.2 | 1.1 | 1.0 | 1.1 | 0.7 | 0.8 | 0.6 | 0.5 | 0.5 | 0.4 | 0.5 | 0.3 | 0.2 | -0.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 3.3 | 2.8 | 2.7 | 3.7 | 3.7 | 4.1 | 3.7 | 2.1 | 3.1 | 3.3 | 2.6 | 1.7 | 1.0 | 1.4 | 1.4 | 1.2 | 0.8 | 0.9 | 0.8 | 0.6 | 0.2 | 0.7 | 0.4 | 0.4 | 0.3 | -0.1 |
| Midwest | 3.3 | 3.2 | 3.5 | 3.9 | 4.4 | 5.3 | 4.1 | 4.6 | 5.7 | 3.4 | 3.1 | 2.7 | 2.1 | 2.3 | 2.2 | 1.9 | 1.2 | 1.6 | 1.1 | 1.0 | 0.8 | 0.5 | 0.5 | 0.3 | 0.4 | +0.1 |
| South | 3.4 | 3.3 | 4.6 | 3.9 | 3.6 | 4.5 | 3.7 | 4.8 | 2.9 | 2.8 | 2.7 | 2.5 | 2.6 | 1.8 | 1.9 | 2.1 | 1.3 | 1.3 | 1.1 | 1.2 | 0.8 | 0.8 | 1.1 | 0.8 | 0.6 | -0.3 |
| West | 1.9 | 2.0 | 2.2 | 2.6 | 1.8 | 2.7 | 2.2 | 1.6 | 1.2 | 1.3 | 0.7 | 0.9 | 0.8 | 1.2 | 0.9 | 0.6 | 0.9 | 0.6 | 0.7 | 0.5 | 1.0 | 0.3 | 0.6 | 0.3 | 0.3 | +0.1 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 2.4 | 2.3 | 2.1 | 3.0 | 2.5 | 3.7 | 2.7 | 2.3 | 1.8 | 2.1 | 1.5 | 1.3 | 1.0 | 1.3 | 1.0 | 0.9 | 0.7 | 0.7 | 0.5 | 0.4 | 0.3 | 0.4 | 0.5 | 0.3 | 0.2 | -0.1 |
| Other MSA | 3.3 | 3.2 | 3.7 | 3.9 | 3.6 | 3.8 | 3.2 | 3.2 | 2.8 | 2.2 | 2.1 | 2.2 | 1.7 | 1.6 | 1.5 | 1.6 | 1.1 | 1.3 | 1.1 | 0.9 | 1.0 | 0.6 | 0.7 | 0.5 | 0.4 | -0.1 |
| Non-MSA | 3.4 | 3.3 | 5.0 | 3.7 | 4.3 | 5.8 | 4.8 | 5.6 | 5.9 | 4.6 | 3.9 | 3.1 | 3.1 | 2.4 | 2.9 | 2.3 | 1.7 | 1.6 | 1.3 | 1.4 | 0.8 | 0.8 | 1.3 | 0.9 | 0.9 | 0.0 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 7.9 | 6.5 | 6.4 | 5.1 | 8.2 | 6.5 | 6.4 | 6.2 | 6.2 | 7.1 | 5.2 | 4.6 | 3.7 | 5.6 | 2.9 | 3.6 | 1.9 | 2.5 | 2.6 | 0.9 | 1.2 | 0.7 | 1.0 | 1.2 | 0.7 | -0.5 |
| 2.5-3.0 | 3.7 | 3.4 | 3.9 | 4.9 | 4.1 | 6.4 | 4.8 | 5.2 | 4.8 | 3.8 | 3.6 | 2.8 | 2.9 | 2.1 | 2.8 | 2.4 | 2.0 | 1.5 | 1.2 | 1.7 | 1.0 | 1.0 | 0.9 | 0.6 | 0.3 | -0.2 |
| 3.5-4.0 | 2.5 | 2.6 | 3.6 | 3.4 | 3.6 | 3.2 | 3.5 | 3.7 | 3.4 | 2.3 | 2.0 | 2.2 | 1.8 | 1.5 | 1.9 | 1.3 | 1.3 | 1.0 | 0.8 | 0.9 | 0.8 | 0.7 | 0.7 | 0.6 | 0.4 | -0.2 |
| 4.5-5.0 | 1.6 | 1.8 | 2.3 | 2.6 | 2.0 | 2.8 | 2.2 | 2.0 | 1.5 | 1.4 | 0.9 | 1.2 | 0.7 | 0.8 | 0.6 | 1.0 | 0.5 | 0.7 | 0.4 | 0.7 | 0.4 | 0.1 | 0.3 | 0.2 | 0.2 | 0.0 |
| 5.5-6.0 (High) | 1.8 | 1.5 | 2.2 | 2.2 | 1.5 | 2.7 | 1.8 | 2.1 | 1.8 | 1.5 | 1.4 | 1.1 | 0.9 | 0.6 | 0.5 | 0.6 | 0.2 | 0.9 | 0.7 | 0.2 | 0.2 | 0.4 | 0.7 | 0.1 | 0.2 | +0.1 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 3.3 | 3.8 | 4.2 | 4.2 | 4.6 | 4.6 | 4.2 | 4.0 | 3.6 | 3.2 | 2.8 | 2.3 | 1.9 | 1.9 | 1.9 | 1.5 | 1.2 | 1.2 | 1.1 | 0.9 | 0.7 | 0.7 | 0.6 | 0.4 | -0.2 ss |
| African American | - | 0.4 | 0.7 | 1.0 | 0.9 | 1.3 | 1.4 | 1.2 | 1.3 | 1.0 | 1.1 | 1.1 | 1.2 | 1.1 | 0.9 | 0.8 | 0.9 | 0.8 | 0.8 | 0.6 | 0.4 | 0.4 | 0.6 | 0.6 | 0.4 | -0.3 |
| Hispanic | - | 2.7 | 2.5 | 3.1 | 3.3 | 2.7 | 2.4 | 2.8 | 3.0 | 2.3 | 1.4 | 1.3 | 1.5 | 1.4 | 1.1 | 0.7 | 0.9 | 0.9 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0.4 | -0.1 |

Source. The Monitoring the Future study, the University of Michigan.
 See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.
${ }^{2}$ Parental education is an average score of mother's education and father's education. See appendix $B$ for details.
${ }^{\text {To }}$ derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/thnicity is defined.

## TABLE 121

CIGARETTES: Trends in 30-Day Prevalence of Use of Half Pack a Day or More
by Subgroups in Grade 10

Percentage who used half pack a day or more in last 30 days




Source. The Monitoring the Future study, the University of Michigan.
 See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.
Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{5}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 122
CIGARETTES: Trends in 30-Day Prevalence of Use of Half Pack a Day or More by Subgroups in Grade 12

|  | Percentage who used half pack a day or more in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{1975}$ | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
| Approximate weighted $N=$ | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |
| Total | 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 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 19.6 | 19.9 | 19.7 | 18.9 | 15.4 | 13.5 | 12.8 | 13.1 | 13.1 | 11.0 | 12.3 | 10.7 | 10.1 | 11.1 | 11.2 | 11.6 | 11.6 | 10.4 | 11.6 | 12.7 |
| Female | 16.1 | 18.0 | 18.9 | 18.0 | 17.1 | 14.7 | 13.8 | 14.7 | 13.6 | 12.8 | 12.0 | 11.6 | 12.5 | 9.7 | 10.7 | 10.8 | 9.5 | 9.2 | 9.9 | 9.5 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 25.5 | 26.9 | 25.5 | 23.3 | 21.2 | 20.8 | 21.0 | 20.9 | 19.6 | 20.7 | 19.2 | 19.5 | 18.4 | 18.6 | 19.2 | 18.7 | 19.1 | 18.7 | 19.6 |
| Complete 4 years | - | 11.9 | 11.2 | 11.1 | 9.8 | 8.2 | 7.5 | 7.8 | 7.6 | 6.5 | 6.5 | 6.4 | 7.2 | 6.8 | 7.5 | 7.5 | 7.1 | 6.5 | 8.1 | 8.2 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 22.0 | 22.5 | 24.2 | 23.6 | 19.8 | 17.0 | 16.6 | 15.6 | 16.6 | 17.4 | 17.0 | 15.6 | 16.5 | 13.1 | 13.6 | 13.8 | 12.9 | 11.1 | 14.7 | 12.2 |
| Midwest | 18.8 | 20.3 | 20.3 | 19.8 | 17.4 | 15.4 | 16.0 | 17.3 | 17.1 | 13.0 | 14.9 | 12.3 | 12.3 | 11.5 | 14.2 | 13.7 | 14.1 | 11.0 | 12.5 | 15.3 |
| South | 16.8 | 19.0 | 18.5 | 17.0 | 16.1 | 14.5 | 12.0 | 13.3 | 12.4 | 11.3 | 9.7 | 10.0 | 9.4 | 10.1 | 9.7 | 9.4 | 8.9 | 10.2 | 10.4 | 10.8 |
| West | 11.3 | 12.4 | 11.5 | 12.2 | 10.8 | 8.3 | 7.3 | 7.1 | 6.4 | 7.4 | 7.6 | 6.5 | 8.1 | 7.7 | 6.9 | 8.3 | 7.2 | 6.8 | 6.0 | 5.9 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 21.7 | 20.1 | 20.4 | 19.7 | 16.2 | 14.8 | 15.4 | 15.9 | 14.1 | 14.8 | 14.4 | 12.2 | 13.1 | 10.8 | 10.1 | 11.2 | 10.2 | 9.9 | 9.1 | 10.2 |
| Other MSA | 17.4 | 18.9 | 18.8 | 17.9 | 16.5 | 13.8 | 12.4 | 12.9 | 13.5 | 11.4 | 11.0 | 9.6 | 10.0 | 10.4 | 11.2 | 11.0 | 10.7 | 8.4 | 11.2 | 10.5 |
| Non-MSA | 15.9 | 19.0 | 19.5 | 19.3 | 16.7 | 14.7 | 13.6 | 14.2 | 14.0 | 11.5 | 12.9 | 13.3 | 12.5 | 10.7 | 12.1 | 12.1 | 11.1 | 13.1 | 11.7 | 13.7 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 18.6 | 21.3 | 20.0 | 19.2 | 19.5 | 16.3 | 16.0 | 17.1 | 17.1 | 16.4 | 16.1 | 15.6 | 13.8 | 11.2 | 11.5 | 10.2 | 12.5 | 11.0 | 10.7 | 9.5 |
| 2.5-3.0 | 17.7 | 21.4 | 22.2 | 21.0 | 17.6 | 16.8 | 15.6 | 15.9 | 15.2 | 14.8 | 14.2 | 13.3 | 13.9 | 12.4 | 13.5 | 13.4 | 12.4 | 12.7 | 12.5 | 13.7 |
| 3.5-4.0 | 13.9 | 17.4 | 18.3 | 16.9 | 15.2 | 12.8 | 12.5 | 13.3 | 11.9 | 10.5 | 12.0 | 11.0 | 10.5 | 10.3 | 10.7 | 11.6 | 10.7 | 9.6 | 10.4 | 11.0 |
| 4.5-5.0 | 15.9 | 15.9 | 14.8 | 15.4 | 12.6 | 10.3 | 10.1 | 10.1 | 10.5 | 8.0 | 9.5 | 6.8 | 8.9 | 8.6 | 9.2 | 10.2 | 7.9 | 8.1 | 10.0 | 10.4 |
| 5.5-6.0 (High) | 9.1 | 15.9 | 14.6 | 14.5 | 13.6 | 9.8 | 8.8 | 9.3 | 9.3 | 7.9 | 5.4 | 7.4 | 8.4 | 8.3 | 8.4 | 7.9 | 9.0 | 5.7 | 8.3 | 8.8 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 20.3 | 20.2 | 18.6 | 16.4 | 15.0 | 15.1 | 15.2 | 14.2 | 13.6 | 13.1 | 12.9 | 12.9 | 12.9 | 13.3 | 13.1 | 12.3 | 12.8 | 13.7 |
| African American | - | - | 10.7 | 9.7 | 9.1 | 7.1 | 5.8 | 5.4 | 4.9 | 4.1 | 3.9 | 3.6 | 2.9 | 2.3 | 1.9 | 1.8 | 1.8 | 1.8 | 1.5 | 1.7 |
| Hispanic | - | - | 11.3 | 9.0 | 6.4 | 5.6 | 6.1 | 5.6 | 5.9 | 6.1 | 5.3 | 5.0 | 4.1 | 3.5 | 4.2 | 4.2 | 4.0 | 4.6 | 4.5 | 4.0 |

(Table continued on next page.)

TABLE 122 (cont.)
CIGARETTES: Trends in 30-Day Prevalence of Use of Half Pack a Day or More
by Subgroups in Grade 12

|  | Percentage who used half pack a day or more in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014- |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | $\underline{2003}$ | 2004 | $\underline{2005}$ | $\underline{2006}$ | 2007 | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | 2011 | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | change |
| Approximate weighted $N=$ | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | 12.4 | 13.0 | 14.3 | 12.6 | 13.2 | 11.3 | 10.3 | 9.1 | 8.4 | 8.0 | 6.9 | 5.9 | 5.7 | 5.4 | 5.0 | 4.7 | 4.3 | 4.0 | 3.4 | 2.6 | 2.1 | $-0.5$ |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 13.2 | 13.6 | 15.5 | 13.5 | 14.5 | 11.4 | 10.2 | 10.0 | 9.5 | 8.0 | 8.0 | 6.2 | 6.4 | 6.1 | 5.4 | 5.6 | 5.3 | 4.9 | 4.0 | 3.4 | 2.5 | $-1.0 \mathrm{~s}$ |
| Female | 11.1 | 12.0 | 12.6 | 11.1 | 11.5 | 10.8 | 10.2 | 7.9 | 6.6 | 7.5 | 5.3 | 5.2 | 4.7 | 4.6 | 4.2 | 3.6 | 3.0 | 2.8 | 2.4 | 1.8 | 1.2 | -0.6 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 22.6 | 23.1 | 23.5 | 23.7 | 23.2 | 20.3 | 19.3 | 17.5 | 17.2 | 16.0 | 15.2 | 13.0 | 12.5 | 11.9 | 11.2 | 12.0 | 11.1 | 9.5 | 8.6 | 6.2 | 5.8 | -0.4 |
| Complete 4 years | 8.9 | 10.0 | 11.0 | 8.9 | 10.1 | 8.1 | 7.6 | 6.7 | 5.5 | 5.6 | 4.6 | 3.9 | 4.0 | 3.8 | 3.6 | 3.1 | 2.8 | 2.6 | 2.1 | 1.7 | 1.1 | -0.6 s |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 13.4 | 17.0 | 19.4 | 13.6 | 13.4 | 13.6 | 12.3 | 10.9 | 8.7 | 9.0 | 7.5 | 7.9 | 6.1 | 5.5 | 5.0 | 4.4 | 4.0 | 5.4 | 4.3 | 2.5 | 2.2 | -0.3 |
| Midwest | 14.2 | 15.1 | 16.9 | 16.8 | 15.0 | 13.7 | 14.8 | 13.6 | 10.1 | 8.8 | 8.7 | 6.7 | 7.2 | 6.6 | 7.2 | 5.9 | 4.5 | 5.2 | 3.4 | 2.5 | 2.4 | -0.2 |
| South | 12.6 | 12.0 | 12.3 | 11.8 | 13.9 | 10.6 | 7.6 | 8.6 | 8.9 | 8.9 | 7.6 | 6.0 | 6.4 | 6.5 | 5.3 | 5.5 | 5.2 | 4.0 | 4.3 | 3.3 | 2.4 | -0.9 |
| West | 8.4 | 6.5 | 8.2 | 7.5 | 9.0 | 7.5 | 6.6 | 3.1 | 5.0 | 4.1 | 3.1 | 2.9 | 2.5 | 2.6 | 1.8 | 2.2 | 3.0 | 1.8 | 1.4 | 1.6 | 1.1 | -0.5 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 12.3 | 11.6 | 12.8 | 11.0 | 9.6 | 8.2 | 9.4 | 7.6 | 5.4 | 6.0 | 5.2 | 4.8 | 4.2 | 3.4 | 3.8 | 4.0 | 3.8 | 3.2 | 2.6 | 1.9 | 1.5 | -0.4 |
| Other MSA | 11.1 | 12.8 | 14.3 | 11.7 | 12.6 | 11.6 | 9.4 | 8.7 | 8.4 | 8.2 | 6.3 | 5.0 | 5.3 | 5.3 | 4.6 | 4.2 | 3.9 | 3.4 | 2.8 | 2.4 | 1.9 | -0.5 |
| Non-MSA | 14.7 | 14.4 | 16.0 | 16.5 | 18.0 | 14.5 | 13.3 | 11.9 | 12.2 | 10.0 | 10.4 | 9.2 | 8.8 | 8.2 | 7.5 | 6.9 | 6.2 | 6.8 | 6.0 | 4.1 | 3.6 | -0.5 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 13.5 | 13.6 | 11.9 | 12.5 | 15.0 | 16.1 | 10.8 | 7.4 | 8.7 | 8.6 | 6.8 | 5.4 | 7.5 | 6.8 | 5.2 | 4.3 | 5.0 | 4.9 | 3.9 | 2.7 | 3.0 | +0.3 |
| 2.5-3.0 | 15.1 | 14.8 | 16.4 | 14.9 | 16.6 | 13.8 | 12.5 | 12.0 | 10.5 | 10.9 | 10.0 | 8.4 | 7.6 | 6.9 | 7.2 | 6.4 | 6.2 | 5.3 | 5.0 | 3.1 | 3.2 | +0.1 |
| 3.5-4.0 | 12.7 | 12.3 | 13.9 | 13.8 | 13.1 | 10.7 | 10.6 | 10.3 | 8.7 | 8.2 | 7.2 | 5.8 | 5.6 | 6.0 | 5.1 | 5.1 | 4.3 | 4.7 | 3.7 | 2.8 | 1.7 | -1.1 s |
| 4.5-5.0 | 9.8 | 12.6 | 14.5 | 10.3 | 10.7 | 9.3 | 9.2 | 6.8 | 5.7 | 6.1 | 5.1 | 4.6 | 4.7 | 3.7 | 3.6 | 3.2 | 2.7 | 2.3 | 2.4 | 2.1 | 1.3 | -0.8 |
| 5.5-6.0 (High) | 9.1 | 10.8 | 11.2 | 7.4 | 9.5 | 7.1 | 6.2 | 5.4 | 4.9 | 4.7 | 3.2 | 3.3 | 2.7 | 3.5 | 2.0 | 2.3 | 2.7 | 2.0 | 1.1 | 1.6 | 1.1 | -0.5 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 14.2 | 15.2 | 16.9 | 16.9 | 15.9 | 15.1 | 13.6 | 12.4 | 10.9 | 10.0 | 9.1 | 7.9 | 7.1 | 7.1 | 7.0 | 6.6 | 6.0 | 5.4 | 4.8 | 3.9 | 2.9 | -1.0 sss |
| African American | 2.2 | 2.5 | 2.8 | 2.5 | 2.4 | 2.6 | 2.4 | 2.1 | 1.7 | 1.6 | 1.8 | 2.1 | 2.4 | 2.2 | 1.6 | 1.6 | 2.0 | 1.5 | 1.5 | 2.0 | 1.5 | -0.5 |
| Hispanic | 4.1 | 5.3 | 5.8 | 5.2 | 5.8 | 7.0 | 5.3 | 3.8 | 3.0 | 2.9 | 2.9 | 2.6 | 2.5 | 2.1 | 1.6 | 1.5 | 1.4 | 1.3 | 1.4 | 1.2 | 1.1 | -0.1 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $\mathrm{s}=.05, \mathrm{ss}=.01$, $\mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix $B$ for details.
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 123
TOBACCO USING A HOOKAH: Trends in Annual Prevalence of Use by Subgroups in Grade 12

| Approximate weighted $N=$ | Percent who used in last 12 months |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1975- |  |  |  |  |  |  |  |
|  | 2011 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |  |
|  |  | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | - | 17.1 | 18.5 | 18.3 | 21.4 | 22.9 | 19.8 | -3.1 |
| Gender: |  |  |  |  |  |  |  |  |
| Male | - | 19.0 | 20.0 | 19.9 | 21.6 | 24.9 | 22.2 | -2.7 |
| Female | - | 15.2 | 16.7 | 17.0 | 21.0 | 21.4 | 17.9 | -3.5 |
| College Plans: |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 19.4 | 19.8 | 17.9 | 21.3 | 23.7 | 20.6 | -3.0 |
| Complete 4 years | - | 16.2 | 18.6 | 18.4 | 21.5 | 22.8 | 19.5 | -3.3 |
| Region: |  |  |  |  |  |  |  |  |
| Northeast | - | 15.4 | 15.1 | 17.5 | 23.9 | 21.6 | 20.5 | -1.0 |
| Midwest | - | 17.9 | 21.3 | 18.6 | 18.9 | 26.2 | 24.2 | -2.0 |
| South | - | 15.3 | 14.5 | 12.1 | 16.5 | 20.1 | 16.6 | -3.5 |
| West | - | 20.9 | 23.9 | 26.2 | 29.7 | 25.9 | 21.1 | -4.9 |
| Population Density: |  |  |  |  |  |  |  |  |
| Large MSA | - | 19.6 | 18.6 | 22.7 | 25.2 | 24.6 | 20.1 | -4.5 |
| Other MSA | - | 18.3 | 21.2 | 19.3 | 23.6 | 23.5 | 20.2 | -3.3 |
| Non-mSA | - | 10.5 | 12.3 | 9.1 | 10.7 | 19.3 | 18.6 | -0.7 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 16.8 | 19.8 | 18.1 | 19.2 | 17.9 | 16.4 | -1.5 |
| 2.5-3.0 | - | 16.3 | 17.6 | 16.8 | 20.6 | 20.2 | 19.8 | -0.3 |
| 3.5-4.0 | - | 18.7 | 18.1 | 19.4 | 23.7 | 22.9 | 21.3 | -1.6 |
| 4.5-5.0 | - | 15.0 | 18.6 | 19.6 | 20.8 | 29.0 | 19.5 | -9.4 ss |
| 5.5-6.0 (High) | - | 21.3 | 20.6 | 17.6 | 20.4 | 22.0 | 23.8 | +1.8 |
| Race/Ethnicity (2-year data): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |
| White | - | - | 20.6 | 20.5 | 20.2 | 24.4 | 25.2 | +0.8 |
| African American | - | - | 6.0 | 5.9 | 8.6 | 10.3 | 9.5 | -0.7 |
| Hispanic | - | - | 17.6 | 18.5 | 22.8 | 23.7 | 19.9 | -3.9 |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |
| Notes. '- 'indicates data not available. Any apparent inconsistency between the change estimate and tne prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms; $N$ is one sixth of $N$ indicated in Table S 3 . |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. <br> ${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details. |  |  |  |  |  |  |  |  |
| ${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined. |  |  |  |  |  |  |  |  |

## TABLE 124

## SMALL CIGARS: Trends in Annual Prevalence

 of Use by Subgroups in Grade 12| Approximate weighted $N=$ | Percent who used in last 12 months |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 1975- \\ & \underline{2011} \end{aligned}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
|  |  | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | - | 23.1 | 19.5 | 19.9 | 20.4 | 18.9 | 15.9 | -3.0 |
| Gender: |  |  |  |  |  |  |  |  |
| Male | - | 29.7 | 26.7 | 27.1 | 26.5 | 26.4 | 23.6 | -2.8 |
| Female | - | 16.3 | 12.3 | 12.9 | 14.8 | 11.8 | 9.3 | -2.5 |
| College Plans: |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 30.7 | 27.7 | 24.5 | 21.8 | 22.9 | 20.3 | -2.7 |
| Complete 4 years | - | 21.4 | 17.8 | 19.0 | 20.1 | 18.0 | 14.9 | -3.1 |
| Region: |  |  |  |  |  |  |  |  |
| Northeast | - | 26.1 | 21.5 | 19.2 | 21.4 | 21.2 | 17.4 | -3.7 |
| Midwest | - | 28.1 | 23.7 | 28.4 | 23.7 | 23.6 | 17.6 | -6.0 |
| South | - | 19.8 | 14.2 | 12.8 | 19.8 | 18.2 | 14.4 | -3.8 |
| West | - | 20.8 | 21.8 | 20.5 | 17.1 | 14.2 | 15.9 | +1.7 |
| Population Density: |  |  |  |  |  |  |  |  |
| Large MSA | - | 22.7 | 16.2 | 21.6 | 18.5 | 16.0 | 10.7 | -5.2 s |
| Other MSA | - | 23.5 | 21.9 | 19.5 | 22.4 | 20.3 | 17.9 | -2.4 |
| Non-MSA | - | 22.5 | 18.4 | 18.3 | 18.3 | 19.4 | 19.7 | +0.3 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 16.6 | 14.8 | 12.8 | 18.3 | 9.5 | 11.8 | +2.2 |
| 2.5-3.0 | - | 23.6 | 16.2 | 18.6 | 17.5 | 17.6 | 15.9 | -1.8 |
| 3.5-4.0 | - | 22.9 | 19.9 | 20.5 | 22.8 | 20.6 | 18.7 | -1.8 |
| 4.5-5.0 | - | 25.9 | 19.4 | 23.2 | 22.1 | 20.8 | 14.8 | -6.0 s |
| 5.5-6.0 (High) | - | 23.5 | 26.5 | 19.7 | 18.1 | 21.5 | 19.9 | -1.7 |
| Race/Ethnicity (2-year data): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |
| White | - | - | 25.8 | 24.3 | 23.9 | 24.2 | 22.0 | -2.2 s |
| African American | - | - | 6.3 | 5.9 | 9.1 | 10.5 | 9.4 | -1.1 |
| Hispanic | - | - | 17.9 | 13.6 | 16.0 | 13.7 | 10.0 | -3.7 s |

Source. The Monitoring the Future study, the University of Michigan
Notes. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for ne number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms; $N$ is one sixth of $N$ indicated in Table S3.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends
Parental education is an average score of mother's education and father's education. See appendix B for details.
To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase
subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined

TABLE 125
E-Cigarettes: Trends in 30-Day
Prevalence of Use by Subgroups in Grades 8, 10, and 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 8th Graders |  |  |  | 10th Graders |  |  |  | 12th Graders |  |  |  |
|  | $\begin{aligned} & 1991- \\ & \underline{2013} \end{aligned}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ | $\begin{aligned} & 1991- \\ & \underline{2013} \end{aligned}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ | $\begin{gathered} 1976- \\ \underline{2013} \end{gathered}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| Approximate weighted $N=$ | - | 14600 | 14,400 |  | - | 13000 | 15,600 |  | - | 12400 | 12,900 |  |
| Total | - | 8.7 | 9.5 | +0.8 | - | 16.2 | 14.0 | -2.2 | - | 17.1 | 16.2 | -0.9 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 9.8 | 10.2 | +0.4 | - | 19.2 | 15.9 | -3.2 | - | 20.1 | 21.5 | +1.4 |
| Female | - | 7.1 | 8.6 | +1.4 | - | 13.1 | 12.0 | -1.1 | - | 13.7 | 10.9 | -2.8 ss |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 16.8 | 19.0 | +2.2 | - | 26.3 | -6.5 | +0.2 | - | 23.0 | 24.5 | +1.4 |
| Complete 4 years | - | 7.9 | 8.6 | +0.7 | - | 15.3 | 12.6 | -2.6 s | - | 15.4 | 14.3 | -1.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 7.2 | 7.3 | +0.2 | - | 17.3 | 14.2 | -3.1 | - | 15.7 | 14.7 | -1.0 |
| Midwest | - | 6.7 | 8.0 | +1.4 | - | 15.1 | 13.5 | -1.6 | - | 19.7 | 16.4 | -3.3 |
| South | - | 8.7 | 10.9 | +2.2 | - | 16.5 | 16.0 | -0.5 | - | 15.6 | 15.9 | +0.3 |
| West | - | 11.7 | 9.7 | -2.0 | - | 16.0 | 10.9 | -5.1 ss | - | 18.6 | 17.7 | -0.9 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 9.7 | 8.6 | -1.1 | - | 15.3 | 12.7 | -2.6 | - | 15.8 | 14.7 | -1.1 |
| Other MSA | - | 9.7 | 10.2 | +0.4 | - | 17.5 | 13.4 | -4.0 | - | 19.8 | 17.1 | -2.7 |
| Non-MSA | - | 5.1 | 9.1 | +4.0 ss | - | 14.8 | 17.7 | +2.9 | - | 12.3 | 16.6 | +4.3 s |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 11.4 | 10.6 | -0.8 | - | 20.3 | 18.3 | -2.0 | - | 14.6 | 15.0 | +0.5 |
| 2.5-3.0 | - | 12.1 | 12.4 | +0.3 | - | 16.3 | 15.8 | -0.5 | - | 19.1 | 17.7 | -1.4 |
| 3.5-4.0 | - | 10.2 | 9.2 | -1.0 | - | 20.2 | 13.7 | -6.5 ss | - | 18.3 | 16.5 | -1.9 |
| 4.5-5.0 | - | 6.4 | 8.1 | +1.6 | - | 14.9 | 12.6 | -2.3 | - | 14.7 | 16.9 | +2.3 |
| 5.5-6.0 (High) | - | 5.3 | 7.3 | +2.0 | - | 13.1 | 11.2 | -1.9 | - | 18.6 | 14.1 | -4.5 |
| Race/Ethnicity (2-year data): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 8.1 | - | - | - | 16.2 | - | - | - | 19.3 | - |
| African American | - | - | 6.0 | - | - | - | 9.1 | - | - | - | 7.3 | - |
| Hispanic | - | - | 12.6 | - | - | - | 15.4 | - | - | - | 15.6 | - |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Tables $\mathrm{S} 1, \mathrm{~S} 2$, and S 3 for the number of subgroup cases. See appendix B for definition of variables in table. For 8 th and 10th graders only: Data based on two of four forms; $N$ is one third of $N$ indicated in S 1 and S 2 . For 12th graders only: Data based on four of six forms; $N$ is four sixths of $N$ indicated in Table S3.
Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 126

## Large Cigars: Trends in 30-Day

## Prevalence of Use by Subgroups in Grades 8, 10, and 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 8th Graders |  |  |  | 10th Graders |  |  |  | 12th Graders |  |  |  |
|  | $\begin{gathered} 1991- \\ \underline{2013} \end{gathered}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ | $\begin{gathered} 1991- \\ 2013 \end{gathered}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \\ \hline \end{gathered}$ | $\begin{gathered} 1976- \\ \underline{2013} \end{gathered}$ | 2014 | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| Approximate weighted $N=$ | - | 14600 | 14,400 |  | - | 13000 | 15,600 |  | - | 12400 | 12,900 |  |
| Total | - | 1.9 | 2.4 | +0.5 | - | 3.9 | 3.4 | -0.6 | - | 6.4 | 7.0 | +0.6 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 2.8 | 3.6 | +0.8 | - | 5.8 | 4.8 | -1.0 | - | 10.7 | 11.9 | +1.1 |
| Female | - | 1.1 | 1.2 | +0.2 | - | 2.2 | 2.1 | -0.1 | - | 2.4 | 2.4 | 0.0 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 6.2 | 7.5 | +1.3 | - | 7.2 | 10.4 | +3.1 | - | 11.9 | 12.2 | +0.3 |
| Complete 4 years | - | 1.6 | 1.9 | +0.4 | - | 3.7 | 2.7 | -1.0 s | - | 5.0 | 5.8 | +0.8 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 1.8 | 1.6 | -0.2 | - | 6.1 | 3.7 | -2.4 | - | 8.7 | 8.3 | -0.5 |
| Midwest | - | 0.8 | 1.8 | +1.0 | - | 3.8 | 3.2 | -0.6 | - | 7.4 | 6.7 | -0.6 |
| South | - | 2.7 | 2.9 | +0.2 | - | 4.1 | 3.7 | -0.4 | - | 5.9 | 6.2 | +0.3 |
| West | - | 1.6 | 2.5 | +0.9 | - | 2.1 | 2.8 | +0.7 | - | 4.4 | 7.8 | +3.3 s |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 2.2 | 1.8 | -0.4 | - | 4.4 | 2.8 | -1.6 ss | - | 4.4 | 5.9 | +1.5 |
| Other MSA | - | 1.9 | 2.7 | +0.8 | - | 2.9 | 2.6 | -0.3 | - | 6.4 | 7.1 | +0.6 |
| Non-MSA | - | 1.3 | 2.5 | +1.1 | - | 5.5 | 6.4 | +0.9 | - | 8.7 | 8.6 | -0.1 |
| Parental Education: a |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 4.1 | 4.5 | +0.4 | - | 4.2 | 5.7 | +1.5 | - | 4.8 | 7.9 | +3.1 |
| 2.5-3.0 | - | 2.8 | 2.7 | -0.2 | - | 4.6 | 2.9 | -1.7 | - | 6.1 | 5.8 | -0.3 |
| 3.5-4.0 | - | 1.5 | 1.6 | 0.0 | - | 4.9 | 2.3 | -2.6 ss | - | 6.4 | 7.1 | +0.8 |
| 4.5-5.0 | - | 1.2 | 1.8 | +0.6 | - | 3.3 | 3.1 | -0.2 | - | 7.0 | 8.2 | +1.2 |
| 5.5-6.0 (High) | - | 1.2 | 1.5 | +0.3 | - | 3.8 | 3.3 | -0.5 | - | 6.1 | 5.6 | -0.5 |
| Race/Ethnicity (2-year data): b |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 1.6 | - | - | - | 4.1 | - | - | - | 8.3 | - |
| African American | - | - | 2.0 | - | - | - | 3.5 | - | - | - | 3.2 | - |
| Hispanic | - | - | 3.4 | - | - | - | 3.2 | - | - | - | 5.0 | - |
| Source. The Monitoring the Futur <br> Notes. ' - ' indicates data not <br> See Tables S1, S2, and <br> four forms; N is one thir | e study, <br> vailable. <br> S3 for th <br> of N indi | Universi <br> y appare <br> number of <br> ted in S1 | y of Michi t inconsis subgroup and S2. F | an. <br> ency betwee cases. See 12th grade | nge estim <br> B for def Data base |  | prevalen <br> riables in <br> six forms; | e estimate able. For 8 th N is two six | vo most r <br> h graders <br> dicated in | cent year <br> nly: Data <br> Table S3 | is due to ased on | rounding. <br> wo of |

## Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends

${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{5}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more table estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 127
Flavored Little Cigars or Cigarillos: Trends in 30-Day Prevalence of Use by Subgroups in Grades 8, 10, and 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 8th Graders |  |  |  | 10th Graders |  |  |  | 12th Graders |  |  |  |
|  | $\begin{gathered} 1991- \\ \underline{2013} \end{gathered}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ | $\begin{gathered} 1991- \\ \underline{2013} \end{gathered}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ | $\begin{gathered} 1976- \\ \underline{2013} \end{gathered}$ | 2014 | 2015 | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| Approximate weighted $N=$ | - | 14600 | 14,400 |  | - | 13000 | 15,600 |  | - | 12400 | 12,900 |  |
| Total | - | 4.1 | 4.1 | 0.0 | - | 6.9 | 6.1 | -0.8 | - | 11.9 | 11.4 | -0.5 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 4.8 | 4.4 | -0.4 | - | 8.2 | 7.5 | -0.7 | - | 16.1 | 15.4 | -0.8 |
| Female | - | 3.4 | 3.7 | +0.4 | - | 5.8 | 4.8 | -1.1 | - | 8.2 | 7.6 | -0.7 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 10.0 | 9.8 | -0.2 | - | 12.9 | 15.1 | +2.3 | - | 19.6 | 18.4 | -1.2 |
| Complete 4 years | - | 3.5 | 3.6 | 0.0 | - | 6.5 | 5.2 | -1.3 s | - | 9.9 | 9.8 | -0.1 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 2.3 | 3.0 | +0.7 | - | 7.3 | 5.2 | -2.1 | - | 15.5 | 11.7 | -3.8 s |
| Midwest | - | 3.3 | 3.1 | -0.3 | - | 7.2 | 6.2 | -1.0 | - | 14.5 | 11.5 | -3.0 |
| South | - | 4.8 | 4.8 | 0.0 | - | 7.7 | 7.0 | -0.8 | - | 10.7 | 11.7 | +1.0 |
| West | - | 4.7 | 4.5 | -0.2 | - | 5.3 | 5.5 | +0.2 | - | 9.0 | 10.6 | +1.6 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 4.2 | 3.4 | -0.8 | - | 7.0 | 4.9 | -2.1 s | - | 7.9 | 9.0 | +1.1 |
| Other MSA | - | 4.4 | 4.6 | +0.2 | - | 6.3 | 5.2 | -1.0 | - | 12.6 | 12.5 | -0.1 |
| Non-MSA | - | 3.2 | 3.9 | +0.7 | - | 8.5 | 10.6 | +2.1 | - | 15.4 | 12.7 | -2.7 |
| Parental Education: a |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 9.1 | 8.0 | -1.0 | - | 10.5 | 7.9 | -2.6 | - | 10.7 | 13.1 | +2.3 |
| 2.5-3.0 | - | 6.0 | 4.5 | -1.5 | - | 7.2 | 8.5 | +1.3 | - | 14.8 | 14.3 | -0.5 |
| 3.5-4.0 | - | 3.9 | 3.1 | -0.8 | - | 10.8 | 6.2 | -4.6 sss | - | 12.4 | 10.6 | -1.8 |
| 4.5-5.0 | - | 2.2 | 3.4 | +1.2 | - | 5.1 | 4.6 | -0.4 | - | 10.4 | 11.8 | +1.5 |
| 5.5-6.0 (High) | - | 2.1 | 2.6 | +0.5 | - | 3.7 | 4.8 | +1.1 | - | 9.6 | 6.9 | -2.7 |
| Race/Ethnicity (2-year data): b |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 2.6 | - | - | - | 6.8 | - | - | - | 13.4 | - |
| African American | - | - | 4.2 | - | - | - | 6.4 | - | - | - | 8.8 | - |
| Hispanic | - | - | 6.7 | - | - | - | 5.9 | - | - | - | 9.5 | - |
| Source. The Monitoring the Future study, the University of Michigan. <br> Notes. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding See Tables S1, S2, and S3 for the number of subgroup cases. See appendix B for definition of variables in table. For 8th and 10th graders only: Data based on two of four forms; N is one third of N indicated in S 1 and S 2 . For 12th graders only: Data based on two of six forms; N is two sixths of N indicated in Table S 3 . |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. <br> ${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details. <br> ${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined. |  |  |  |  |  |  |  |  |  |  |  |  |

## TABLE 128

Regular Little Cigars or Cigarillos: Trends in 30-Day
Prevalence of Use by Subgroups in Grades 8, 10, and 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 8th Graders |  |  |  | 10th Graders |  |  |  | 12th Graders |  |  |  |
|  | $\begin{gathered} 1991- \\ \underline{2013} \end{gathered}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ | $\begin{gathered} 1991- \\ \underline{2013} \end{gathered}$ | 2014 | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ | $\begin{aligned} & 1976- \\ & \underline{2013} \end{aligned}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| Approximate weighted $N=$ | - | 14600 | 14,400 |  | - | 13000 | 15,600 |  | - | 12400 | 12,900 |  |
| Total | - | 2.5 | 3.3 | +0.8 | - | 4.4 | 3.8 | -0.6 | - | 7.0 | 7.8 | +0.9 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 2.9 | 4.1 | +1.2 | - | 5.9 | 4.9 | -1.0 | - | 9.6 | 10.9 | +1.3 |
| Female | - | 2.0 | 2.5 | +0.5 | - | 2.9 | 2.9 | 0.0 | - | 4.6 | 4.6 | 0.0 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 8.5 | 9.5 | +1.0 | - | 9.9 | 9.1 | -0.8 | - | 13.6 | 14.6 | +1.0 |
| Complete 4 years | - | 2.0 | 2.8 | +0.8 | - | 4.0 | 3.3 | -0.7 | - | 5.3 | 6.1 | +0.8 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 1.7 | 3.2 | +1.5 | - | 4.7 | 4.4 | -0.3 | - | 9.0 | 7.8 | -1.2 |
| Midwest | - | 1.5 | 2.9 | +1.4 | - | 3.9 | 4.1 | +0.1 | - | 8.7 | 7.5 | -1.2 |
| South | - | 3.8 | 4.0 | +0.2 | - | 6.0 | 4.5 | -1.5 | - | 6.8 | 8.7 | +1.9 |
| West | - | 2.0 | 2.6 | +0.6 | - | 2.5 | 1.9 | -0.6 | - | 4.1 | 6.6 | +2.5 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 2.2 | 3.3 | +1.0 | - | 4.1 | 2.8 | -1.3 | - | 4.8 | 6.0 | +1.1 |
| Other MSA | - | 2.7 | 3.5 | +0.8 | - | 3.6 | 3.5 | -0.1 | - | 7.0 | 8.1 | +1.2 |
| Non-MSA | - | 2.5 | 3.1 | +0.6 | - | 7.1 | 6.4 | -0.6 | - | 9.5 | 9.9 | +0.4 |
| Parental Education: a |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 5.4 | 8.3 | +2.9 | - | 7.4 | 5.5 | -1.9 | - | 8.4 | 7.9 | -0.5 |
| 2.5-3.0 | - | 3.3 | 3.1 | -0.1 | - | 3.8 | 4.7 | +0.9 | - | 7.9 | 10.9 | +3.0 |
| 3.5-4.0 | - | 1.9 | 2.6 | +0.7 | - | 6.6 | 3.3 | -3.3 ss | - | 7.4 | 6.4 | -1.0 |
| 4.5-5.0 | - | 1.9 | 2.7 | +0.8 | - | 3.6 | 2.6 | -0.9 | - | 5.3 | 7.9 | +2.6 |
| 5.5-6.0 (High) | - | 1.8 | 2.6 | +0.8 | - | 2.8 | 4.2 | +1.5 | - | 5.7 | 4.7 | -1.0 |
| Race/Ethnicity (2-year data): b |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 2.1 | - | - | - | 4.2 | - | - | - | 8.3 | - |
| African American | - | - | 3.4 | - | - | - | 4.8 | - | - | - | 6.5 | - |
| Hispanic | - | - | 4.0 | - | - | - | 3.7 | - | - | - | 6.1 | - |
| Source. The Monitoring the Future study, the University of Michigan. <br> Notes. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to round See Tables S1, S2, and S3 for the number of subgroup cases. See appendix B for definition of variables in table. For 8th and 10th graders only: Data based on two of four forms; N is one third of N indicated in S 1 and S 2 . For 12th graders only: Data based on two of six forms; N is two sixths of N indicated in Table S 3 . |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends. <br> ${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details. <br> ${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined. |  |  |  |  |  |  |  |  |  |  |  |  |

$\underline{19} 1 \underline{1991} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015} \quad \underline{\text { change }}$


| Total | 6.9 | 7.0 | 6.6 | 7.7 | 7.1 | 7.1 | 5.5 | 4.8 | 4.5 | 4.2 | 4.0 | 3.3 | 4.1 | 4.1 | 3.3 | 3.7 | 3.2 | 3.5 | 3.7 | 4.1 | 3.5 | 2.8 | 2.8 | 3.0 | 3.2 | +0.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 12.7 | 12.5 | 10.9 | 12.8 | 11.8 | 11.4 | 9.9 | 8.1 | 6.9 | 6.7 | 6.9 | 5.4 | 6.7 | 6.4 | 5.3 | 5.3 | 4.7 | 5.5 | 6.3 | 6.3 | 4.9 | 4.0 | 3.8 | 3.8 | 4.0 | +0.2 |
| Female | 1.4 | 2.0 | 2.7 | 2.4 | 2.9 | 2.9 | 1.5 | 1.5 | 2.1 | 1.8 | 1.4 | 1.3 | 1.8 | 1.7 | 1.5 | 2.1 | 1.7 | 1.5 | 1.4 | 1.9 | 1.9 | 1.5 | 1.9 | 2.2 | 2.3 | +0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 12.7 | 17.1 | 15.5 | 16.7 | 15.4 | 16.4 | 12.6 | 13.9 | 13.2 | 11.4 | 14.6 | 10.2 | 12.8 | 12.3 | 10.8 | 11.3 | 8.9 | 12.7 | 11.1 | 14.0 | 11.1 | 11.5 | 9.2 | 9.6 | 11.3 | +1.7 |
| Complete 4 years | 6.1 | 5.5 | 5.3 | 6.5 | 6.0 | 5.6 | 4.6 | 3.8 | 3.5 | 3.4 | 2.9 | 2.6 | 3.3 | 3.2 | 2.4 | 2.9 | 2.7 | 2.7 | 3.1 | 3.2 | 2.8 | 2.1 | 2.4 | 2.4 | 2.4 | 0.0 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 5.0 | 4.9 | 3.4 | 6.1 | 5.4 | 4.9 | 3.2 | 2.7 | 2.5 | 2.7 | 3.7 | 2.7 | 3.1 | 3.4 | 1.4 | 2.9 | 1.5 | 2.5 | 3.2 | 3.9 | 2.9 | 2.6 | 1.8 | 1.3 | 1.7 | +0.4 |
| Midwest | 7.1 | 7.5 | 7.2 | 7.1 | 7.6 | 8.3 | 6.8 | 4.3 | 5.3 | 4.8 | 4.0 | 3.9 | 3.5 | 4.2 | 3.2 | 4.0 | 2.9 | 3.4 | 3.0 | 4.8 | 3.3 | 2.1 | 1.4 | 2.7 | 2.8 | +0.1 |
| South | 9.5 | 9.3 | 8.0 | 9.9 | 8.7 | 8.1 | 6.7 | 6.9 | 5.9 | 5.8 | 5.4 | 4.1 | 5.9 | 5.5 | 5.3 | 4.6 | 4.1 | 5.2 | 5.6 | 5.0 | 4.3 | 3.6 | 4.7 | 3.7 | 4.0 | +0.3 |
| West | 3.5 | 4.4 | 6.3 | 6.0 | 5.0 | 5.9 | 4.1 | 3.9 | 2.9 | 1.9 | 2.1 | 1.5 | 2.5 | 2.0 | 1.4 | 2.2 | 2.8 | 1.8 | 1.8 | 1.9 | 2.6 | 2.0 | 2.0 | 3.2 | 3.0 | -0.2 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 4.8 | 4.2 | 3.3 | 4.6 | 4.1 | 4.2 | 3.6 | 2.9 | 1.8 | 2.4 | 2.4 | 1.5 | 2.6 | 1.9 | 1.3 | 1.9 | 1.9 | 2.8 | 2.5 | 2.3 | 1.8 | 1.4 | 1.7 | 1.8 | 1.8 | +0.1 |
| Other MSA | 6.2 | 6.9 | 6.8 | 6.4 | 6.7 | 7.1 | 4.7 | 4.1 | 3.9 | 3.9 | 3.5 | 2.9 | 3.7 | 3.6 | 2.8 | 3.1 | 3.1 | 3.1 | 3.6 | 4.7 | 3.7 | 3.1 | 2.6 | 2.7 | 2.8 | +0.1 |
| Non-MSA | 10.4 | 10.3 | 9.9 | 13.0 | 11.2 | 10.6 | 9.0 | 8.5 | 8.9 | 7.0 | 7.0 | 6.2 | 6.9 | 7.7 | 7.0 | 7.1 | 5.3 | 5.4 | 5.8 | 5.0 | 5.4 | 4.2 | 4.9 | 5.2 | 5.8 | +0.5 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 11.4 | 7.8 | 9.4 | 8.9 | 10.6 | 6.3 | 8.3 | 5.4 | 6.6 | 7.4 | 5.0 | 4.5 | 6.8 | 6.9 | 5.7 | 5.9 | 4.9 | 5.4 | 5.3 | 5.2 | 6.6 | 4.2 | 4.1 | 5.6 | 4.4 | -1.3 |
| 2.5-3.0 | 8.4 | 8.5 | 7.5 | 8.4 | 9.9 | 8.8 | 6.0 | 5.1 | 5.7 | 5.2 | 5.4 | 5.1 | 5.1 | 6.0 | 4.9 | 3.9 | 3.7 | 5.1 | 5.5 | 6.0 | 4.2 | 3.8 | 3.5 | 4.4 | 4.0 | -0.4 |
| 3.5-4.0 | 6.7 | 7.0 | 7.5 | 8.7 | 7.0 | 7.2 | 6.5 | 5.9 | 4.5 | 4.5 | 3.7 | 3.2 | 4.1 | 3.5 | 3.1 | 3.7 | 3.1 | 3.8 | 4.9 | 4.1 | 3.3 | 3.2 | 3.7 | 3.0 | 3.6 | +0.6 |
| 4.5-5.0 | 4.8 | 7.0 | 5.2 | 6.1 | 5.0 | 6.8 | 4.8 | 4.4 | 3.3 | 2.9 | 2.5 | 2.4 | 3.1 | 3.2 | 2.4 | 3.1 | 2.5 | 2.4 | 2.9 | 3.3 | 2.7 | 2.0 | 1.6 | 1.9 | 2.5 | +0.6 |
| 5.5-6.0 (High) | 6.1 | 4.6 | 4.9 | 6.8 | 5.8 | 5.9 | 3.7 | 3.9 | 3.1 | 3.0 | 4.2 | 2.5 | 2.7 | 2.9 | 1.8 | 3.4 | 2.3 | 2.3 | 1.4 | 2.5 | 1.5 | 1.4 | 1.8 | 1.9 | 1.9 | 0.0 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 8.3 | 8.0 | 8.1 | 8.9 | 8.8 | 7.6 | 6.1 | 5.4 | 5.2 | 4.8 | 4.1 | 3.9 | 4.4 | 4.2 | 3.7 | 3.8 | 3.9 | 4.4 | 4.9 | 4.6 | 3.6 | 3.1 | 3.4 | 3.5 | +0.2 |
| African American | - | 1.8 | 2.7 | 3.2 | 2.6 | 2.2 | 2.6 | 2.3 | 2.3 | 2.7 | 2.2 | 1.6 | 2.7 | 3.0 | 2.0 | 2.1 | 2.3 | 2.4 | 2.6 | 2.2 | 1.8 | 1.8 | 2.2 | 2.0 | 2.2 | +0.2 |
| Hispanic | - | 4.2 | 4.0 | 5.0 | 5.7 | 5.2 | 4.6 | 4.5 | 4.6 | 3.7 | 3.3 | 4.0 | 4.7 | 4.0 | 2.6 | 3.1 | 2.9 | 2.4 | 2.5 | 2.6 | 3.2 | 3.1 | 2.4 | 2.6 | 2.7 | +0.1 |

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

 added to the list of examples.

${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 130
SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10

Percentage who used in last 30 days
2014-
$\underline{19} 1 \underline{1992} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015} \quad \underline{\text { change }}$


| Total | 10.0 | 9.6 | 10.4 | 10.5 | 9.7 | 8.6 | 8.9 | 7.5 | 6.5 | 6.1 | 6.9 | 6.1 | 5.3 | 4.9 | 5.6 | 5.7 | 6.1 | 5.0 | 6.5 | 7.5 | 6.6 | 6.4 | 6.4 | 5.3 | 4.9 | -0.4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 18.7 | 18.1 | 19.3 | 19.2 | 17.2 | 15.0 | 14.9 | 13.8 | 12.2 | 11.4 | 12.7 | 9.9 | 9.6 | 9.0 | 9.7 | 10.2 | 10.2 | 8.2 | 11.1 | 13.0 | 11.5 | 11.2 | 11.1 | 8.9 | 7.9 | -1.1 |
| Female | 1.3 | 1.8 | 2.0 | 2.1 | 2.1 | 2.3 | 2.7 | 1.7 | 1.3 | 1.3 | 1.6 | 2.1 | 1.3 | 1.0 | 1.6 | 1.2 | 2.0 | 2.0 | 2.0 | 2.0 | 1.9 | 1.9 | 2.0 | 1.9 | 1.8 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 16.9 | 17.5 | 20.2 | 19.9 | 20.3 | 16.3 | 18.5 | 17.8 | 13.2 | 13.9 | 16.0 | 13.6 | 13.0 | 12.2 | 13.3 | 14.9 | 14.0 | 14.6 | 17.5 | 21.8 | 17.9 | 16.8 | 18.6 | 17.9 | 12.3 | -5.6 s |
| Complete 4 years | 8.4 | 8.0 | 8.4 | 8.5 | 7.8 | 7.2 | 7.2 | 5.7 | 5.4 | 4.8 | 5.4 | 4.8 | 4.1 | 3.9 | 4.5 | 4.5 | 5.0 | 3.8 | 5.3 | 5.8 | 5.2 | 5.3 | 5.1 | 4.1 | 4.0 | 0.0 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 8.6 | 5.3 | 8.0 | 9.0 | 7.6 | 6.8 | 9.3 | 6.5 | 5.2 | 4.6 | 4.9 | 4.7 | 4.5 | 5.1 | 4.6 | 4.5 | 5.9 | 3.3 | 6.6 | 6.7 | 5.6 | 4.3 | 6.4 | 4.1 | 4.8 | +0.7 |
| Midwest | 11.0 | 9.6 | 10.0 | 10.0 | 11.0 | 9.5 | 7.1 | 7.9 | 8.1 | 6.2 | 7.0 | 4.8 | 4.9 | 3.7 | 5.7 | 7.5 | 6.3 | 7.2 | 7.7 | 9.2 | 6.4 | 7.9 | 6.9 | 5.7 | 5.1 | -0.6 |
| South | 11.6 | 11.4 | 11.8 | 11.7 | 10.9 | 10.2 | 10.2 | 9.5 | 7.9 | 7.7 | 9.6 | 8.3 | 7.5 | 7.3 | 7.0 | 6.0 | 8.3 | 6.5 | 7.7 | 9.1 | 7.9 | 8.1 | 6.9 | 6.8 | 5.5 | -1.3 |
| West | 7.8 | 10.9 | 11.1 | 10.9 | 7.7 | 6.0 | 8.2 | 4.6 | 4.0 | 4.5 | 3.0 | 5.1 | 3.5 | 3.0 | 4.5 | 4.1 | 3.3 | 2.2 | 3.3 | 4.0 | 5.4 | 4.0 | 5.4 | 3.6 | 3.6 | 0.0 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 5.9 | 6.4 | 6.5 | 6.2 | 5.9 | 5.5 | 4.2 | 3.7 | 4.6 | 5.6 | 4.1 | 4.5 | 3.7 | 3.0 | 3.2 | 3.9 | 4.1 | 3.4 | 4.8 | 5.1 | 4.6 | 3.6 | 5.1 | 4.1 | 3.5 | -0.5 |
| Other MSA | 9.2 | 9.3 | 10.1 | 10.9 | 9.2 | 8.4 | 8.3 | 5.7 | 5.3 | 4.3 | 5.7 | 6.1 | 4.8 | 4.3 | 5.3 | 5.3 | 5.8 | 4.4 | 6.3 | 7.0 | 6.1 | 6.3 | 5.3 | 4.4 | 4.3 | -0.1 |
| Non-MSA | 14.7 | 13.3 | 14.1 | 13.9 | 15.0 | 12.2 | 14.7 | 15.1 | 11.3 | 9.8 | 12.5 | 8.2 | 9.2 | 9.0 | 9.4 | 9.6 | 9.9 | 8.7 | 9.3 | 12.1 | 10.2 | 10.5 | 11.2 | 9.5 | 8.6 | -0.9 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 6.6 | 10.1 | 10.9 | 9.4 | 9.6 | 8.1 | 9.0 | 6.8 | 7.2 | 7.4 | 6.9 | 6.7 | 7.4 | 3.7 | 4.4 | 7.4 | 6.1 | 5.0 | 7.9 | 6.5 | 6.4 | 7.2 | 5.6 | 4.7 | 4.7 | 0.0 |
| 2.5-3.0 | 12.1 | 11.0 | 12.2 | 12.5 | 10.4 | 9.7 | 9.4 | 8.2 | 7.0 | 6.4 | 8.9 | 8.1 | 5.0 | 5.8 | 6.7 | 7.1 | 6.9 | 6.5 | 7.4 | 9.1 | 8.8 | 7.7 | 8.4 | 6.7 | 7.1 | +0.4 |
| 3.5-4.0 | 10.6 | 10.5 | 10.9 | 10.2 | 10.9 | 8.3 | 10.3 | 8.6 | 7.3 | 6.3 | 7.1 | 5.5 | 4.9 | 5.2 | 6.0 | 5.7 | 6.4 | 5.4 | 7.4 | 8.7 | 7.2 | 7.5 | 6.9 | 5.8 | 4.2 | -1.5 |
| 4.5-5.0 | 9.3 | 7.6 | 9.9 | 9.8 | 9.8 | 8.5 | 7.2 | 6.9 | 6.1 | 6.2 | 5.7 | 5.4 | 5.7 | 4.4 | 5.6 | 4.9 | 6.1 | 4.6 | 5.4 | 7.0 | 5.2 | 6.1 | 5.9 | 4.3 | 5.0 | +0.7 |
| 5.5-6.0 (High) | 8.6 | 8.1 | 7.0 | 8.9 | 6.0 | 7.7 | 8.3 | 5.2 | 4.8 | 4.0 | 4.8 | 5.2 | 4.3 | 4.4 | 3.8 | 5.3 | 4.8 | 2.9 | 5.6 | 6.0 | 5.3 | 3.8 | 5.3 | 4.6 | 3.8 | $-0.7$ |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 11.4 | 12.0 | 12.5 | 12.0 | 11.0 | 10.4 | 10.0 | 8.7 | 7.5 | 7.5 | 7.8 | 6.9 | 6.1 | 6.6 | 6.9 | 7.3 | 7.3 | 7.5 | 9.1 | 9.1 | 8.0 | 8.1 | 7.7 | 6.5 | -1.3 ss |
| African American | - | 2.9 | 2.3 | 2.3 | 2.5 | 2.5 | 2.8 | 2.3 | 1.6 | 2.0 | 3.2 | 2.6 | 2.5 | 2.7 | 2.5 | 3.2 | 3.3 | 2.8 | 2.6 | 2.3 | 2.2 | 2.3 | 2.2 | 2.5 | 2.8 | +0.3 |
| Hispanic | - | 6.2 | 6.1 | 4.3 | 3.6 | 4.0 | 4.6 | 4.8 | 4.8 | 4.5 | 4.0 | 4.0 | 4.1 | 3.3 | 3.1 | 3.4 | 2.7 | 2.6 | 2.9 | 2.8 | 3.4 | 4.4 | 3.4 | 3.0 | 3.1 | +0.1 |

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

 added to the list of examples.
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 131
SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Approximate weighted $N=$ | $\underline{1975}$ | $\underline{1976}$ | $\underline{1977}$ | $\underline{1978}$ | $\underline{1979}$ | $\underline{1980}$ | $\underline{1981}$ | $\underline{1982}$ | $\underline{1983}$ | $\underline{1984}$ | $\underline{1985}$ | $\frac{1986}{15,200}$ | $\frac{1987}{16,300}$ | $\underset{16,300}{198}$ | $\frac{1989}{16,700}$ | $\underline{1990}{ }^{\text {a }}$ | $\frac{1991}{}{ }^{\text {a }}$ | $\frac{1992}{15,800}$ | $\frac{1993}{16,300}$ | $\frac{1994}{15,400}$ |
| Total | - | - | - | - | - | - | - | - | - | - | - | 11.5 | 11.3 | 10.3 | 8.4 | - | - | 11.4 | 10.7 | 11.1 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | - | - | - | - | - | - | - | - | - | - | 22.3 | 22.8 | 19.9 | 15.9 | - | - | 20.8 | 19.7 | 20.3 |
| Female | - | - | - | - | - | - | - | - | - | - | - | 1.6 | 0.7 | 1.7 | 1.2 | - | - | 2.0 | 2.3 | 2.6 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | - | - | - | - | - | - | - | - | - | - | 14.5 | 15.5 | 13.1 | 9.6 | - | - | 18.0 | 14.9 | 15.8 |
| Complete 4 years | - | - | - | - | - | - | - | - | - | - | - | 9.8 | 9.0 | 8.8 | 7.7 | - | - | 9.4 | 9.4 | 9.3 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | - | - | - | - | - | - | - | - | - | - | 9.5 | 7.3 | 5.9 | 5.0 | - | - | 8.2 | 9.6 | 12.0 |
| Midwest | - | - | - | - | - | - | - | - | - | - | - | 13.5 | 11.3 | 10.8 | 8.3 | - | - | 12.3 | 13.6 | 14.7 |
| South | - | - | - | - | - | - | - | - | - | - | - | 12.2 | 13.7 | 12.1 | 9.8 | - | - | 12.5 | 11.1 | 9.7 |
| West | - | - | - | - | - | - | - | - | - | - | - | 9.3 | 11.7 | 10.9 | 9.1 | - | - | 11.1 | 7.0 | 8.5 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | - | - | - | - | - | - | - | - | - | - | 9.0 | 6.4 | 7.7 | 6.8 | - | - | 5.9 | 7.1 | 7.5 |
| Other MSA | - | - | - | - | - | - | - | - | - | - | - | 8.9 | 10.5 | 8.5 | 7.6 | - | - | 11.1 | 9.9 | 11.3 |
| Non-MSA | - | - | - | - | - | - | - | - | - | - | - | 17.1 | 17.5 | 16.1 | 11.7 | - | - | 16.9 | 15.0 | 14.7 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | - | - | - | - | - | - | - | - | - | - | 8.6 | 11.7 | 10.7 | 5.3 | - | - | 14.9 | 7.0 | 12.3 |
| 2.5-3.0 | - | - | - | - | - | - | - | - | - | - | - | 14.4 | 11.5 | 10.7 | 7.0 | - | - | 12.4 | 11.6 | 12.9 |
| 3.5-4.0 | - | - | - | - | - | - | - | - | - | - | - | 11.5 | 12.1 | 10.6 | 9.0 | - | - | 12.4 | 10.8 | 9.8 |
| 4.5-5.0 | - | - | - | - | - | - | - | - | - | - | - | 10.4 | 11.7 | 11.8 | 10.2 | - | - | 8.0 | 13.3 | 11.1 |
| 5.5-6.0 (High) | - | - | - | - | - | - | - | - | - | - | - | 7.7 | 8.1 | 7.2 | 8.4 | - | - | 10.6 | 7.8 | 10.2 |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | - | - | - | - | - | - | - | - | - | - | 12.9 | 12.0 | 10.6 | - | - | - | 13.8 | 13.8 |
| African American | - | - | - | - | - | - | - | - | - | - | - | - | 2.1 | 4.5 | 4.5 | - | - | - | 2.0 | 1.9 |
| Hispanic | - | - | - | - | - | - | - | - | - | - | - | - | 4.4 | 5.2 | 5.1 | - | - | - | 6.0 | 5.4 |

## (Table continued on next page.)

## TABLE 131 (cont.)

## SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Approximate weighted $N=$ | $\frac{1995}{15,400}$ | $\frac{1996}{14,300}$ | $\frac{1997}{15,400}$ | $\frac{1998}{15,200}$ | $\frac{1999}{13,600}$ | $\frac{2000}{12,800}$ | $\frac{2001}{12,800}$ | $\frac{2002}{12,900}$ | $\underline{\underline{2003}}$ | $\frac{2004}{14,600}$ | $\frac{2005}{14,700}$ | $\frac{2006}{14,200}$ | $\frac{2007}{14,500}$ | $\underline{\underline{2008}}$ | $\frac{\underline{2009}}{13,700}$ | $\frac{2010}{14,400}$ | $\frac{2011}{14,100}$ | $\frac{2012}{13,700}$ | $\frac{\underline{2013}}{12,600}$ | $\frac{2014}{12,400}$ | $\frac{2015}{12,900}$ |  |  |
| Total | 12.2 | 9.8 | 9.7 | 8.8 | 8.4 | 7.6 | 7.8 | 6.5 | 6.7 | 6.7 | 7.6 | 6.1 | 6.6 | 6.5 | 8.4 | 8.5 | 8.3 | 7.9 | 8.1 | 8.4 | 6.1 | $-2.3$ | s |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 23.6 | 19.5 | 18.7 | 15.6 | 15.5 | 14.4 | 14.2 | 12.2 | 12.5 | 12.2 | 12.7 | 11.0 | 11.9 | 11.8 | 15.8 | 15.7 | 14.2 | 13.5 | 14.6 | 14.3 | 10.7 | -3.6 |  |
| Female | 1.8 | 1.1 | 1.2 | 1.5 | 1.3 | 1.3 | 1.6 | 1.2 | 1.0 | 1.6 | 1.9 | 1.5 | 1.2 | 1.0 | 1.7 | 1.7 | 1.8 | 1.6 | 1.4 | 2.1 | 1.6 | -0.5 |  |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 18.7 | 17.6 | 16.9 | 14.3 | 10.5 | 15.8 | 13.0 | 10.8 | 12.8 | 11.9 | 15.2 | 13.4 | 11.7 | 12.4 | 14.2 | 14.4 | 17.5 | 15.0 | 16.1 | 15.0 | 14.3 | -0.7 |  |
| Complete 4 years | 9.9 | 7.6 | 7.4 | 7.1 | 7.6 | 5.4 | 6.1 | 4.8 | 4.8 | 4.9 | 5.4 | 4.1 | 5.3 | 5.0 | 7.3 | 7.3 | 6.4 | 6.0 | 6.2 | 6.5 | 4.4 | -2.1 | s |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 9.6 | 8.4 | 6.9 | 2.6 | 4.3 | 5.3 | 5.4 | 5.3 | 6.3 | 5.1 | 8.0 | 5.3 | 5.3 | 7.5 | 7.1 | 7.6 | 8.2 | 7.1 | 5.6 | 9.6 | 5.8 | -3.8 |  |
| Midwest | 16.7 | 12.6 | 13.4 | 11.8 | 8.9 | 11.1 | 9.9 | 7.8 | 5.7 | 7.4 | 10.5 | 7.0 | 9.1 | 7.2 | 14.1 | 12.2 | 7.8 | 10.5 | 11.2 | 11.8 | 6.9 | -4.9 |  |
| South | 11.9 | 9.2 | 9.0 | 10.5 | 10.7 | 7.3 | 8.5 | 7.9 | 7.9 | 8.4 | 7.5 | 7.5 | 7.9 | 6.1 | 7.1 | 7.8 | 8.9 | 7.7 | 9.3 | 5.9 | 6.1 | +0.1 |  |
| West | 8.6 | 8.5 | 9.1 | 7.3 | 7.0 | 6.3 | 6.2 | 3.9 | 6.0 | 4.3 | 4.0 | 3.4 | 2.8 | 5.6 | 4.6 | 6.7 | 7.7 | 5.9 | 5.2 | 8.4 | 5.7 | -2.7 |  |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 12.5 | 8.6 | 6.5 | 4.7 | 4.9 | 4.2 | 4.4 | 3.4 | 3.4 | 3.8 | 4.3 | 4.8 | 3.9 | 2.6 | 4.4 | 5.9 | 5.3 | 6.4 | 7.1 | 3.8 | 3.1 | -0.8 |  |
| Other MSA | 9.5 | 7.4 | 7.4 | 7.7 | 8.5 | 7.9 | 8.0 | 5.7 | 6.9 | 5.6 | 7.8 | 4.6 | 6.8 | 6.2 | 7.7 | 7.9 | 8.4 | 6.4 | 7.4 | 9.8 | 5.1 | -4.6 | s |
| Non-MSA | 16.7 | 15.3 | 17.9 | 16.1 | 11.7 | 11.4 | 11.5 | 11.9 | 10.4 | 12.1 | 11.3 | 10.9 | 10.1 | 11.8 | 15.0 | 13.8 | 12.4 | 14.1 | 11.4 | 11.1 | 13.5 | +2.5 |  |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 9.8 | 6.3 | 5.8 | 6.1 | 5.4 | 4.3 | 6.3 | 4.1 | 9.3 | 6.1 | 5.3 | 4.9 | 5.3 | 3.4 | 2.8 | 6.1 | 2.2 | 5.3 | 7.9 | 6.3 | 6.6 | +0.3 |  |
| 2.5-3.0 | 11.5 | 10.4 | 10.7 | 9.0 | 9.1 | 9.9 | 7.5 | 5.6 | 5.9 | 8.8 | 9.7 | 8.0 | 9.8 | 7.2 | 10.4 | 8.2 | 9.3 | 10.0 | 7.9 | 9.3 | 7.1 | -2.2 |  |
| 3.5-4.0 | 12.8 | 9.1 | 10.4 | 9.8 | 8.8 | 8.9 | 8.6 | 7.4 | 6.5 | 4.6 | 7.8 | 6.4 | 5.3 | 6.8 | 9.4 | 8.7 | 8.2 | 8.5 | 6.7 | 8.1 | 6.5 | -1.6 |  |
| 4.5-5.0 | 12.8 | 11.4 | 9.1 | 9.6 | 8.5 | 6.2 | 6.2 | 7.3 | 7.6 | 7.9 | 8.0 | 6.1 | 6.6 | 6.5 | 7.7 | 9.8 | 9.9 | 8.4 | 10.5 | 9.5 | 6.0 | -3.5 |  |
| 5.5-6.0 (High) | 11.6 | 8.1 | 9.9 | 7.4 | 7.9 | 5.7 | 10.3 | 4.6 | 6.2 | 5.4 | 3.7 | 3.5 | 5.8 | 6.3 | 8.7 | 7.5 | 6.3 | 4.7 | 7.7 | 7.9 | 4.9 | -3.1 |  |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 13.8 | 13.0 | 12.2 | 11.8 | 11.0 | 10.5 | 10.3 | 9.7 | 8.5 | 8.2 | 8.7 | 8.8 | 8.3 | 8.6 | 10.5 | 12.1 | 11.8 | 11.3 | 11.0 | 11.4 | 10.2 | -1.1 |  |
| African American | 2.1 | 2.7 | 2.2 | 1.4 | 1.5 | 1.5 | 1.2 | 1.0 | 1.0 | 0.6 | 0.3 | 0.5 | 1.8 | 2.0 | 1.5 | 2.2 | 1.8 | 1.0 | 2.4 | 2.6 | 1.3 | -1.3 | s |
| Hispanic | 7.6 | 8.1 | 5.3 | 4.3 | 3.9 | 3.8 | 3.2 | 2.6 | 3.1 | 3.9 | 4.9 | 3.8 | 2.7 | 2.3 | 2.5 | 3.7 | 3.9 | 2.5 | 2.3 | 3.4 | 3.6 | +0.2 |  |
| Notes. Level of significance of diffe recent years is due to round tobacco were added to the | sudy, the U rence betw ing. See Ta ist of exam | Jniversity ween the able S3 f ples. | of Michiga wo most $r$ or the num | n. <br> ecent clas <br> ber of su | ses: s = . <br> group ca | $.05, \text { ss }=.01$ <br> ses. See a | .01, sss = <br> appendix | 001. '-' <br> B for defini | indicates <br> ition of varia | data not riables in | available. table. Dat | Any appa a based | rent incon n one of | sistency ix forms; | etween th is one si | e change <br> xth of $N$ in | estimate dicated in | and the p Table S3 | evalence $\text { In } 2011 \mathrm{~s}$ | estimates <br> snus and | for the two dissolvable |  |  |
|  was placed earlier and in a different form. This shift could explain the discontinuities between the corresponding data. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 132

## SMOKELESS TOBACCO: Trends in $\underline{\text { 30-Day Prevalence of Daily Use by Subgroups in Grade } 8}$

Percentage who used daily in last 30 days
2014-
$\begin{array}{llllllllllllllllllllllllllllllllllll}\underline{1991} & \underline{1992} & \underline{1993} & \underline{1994} & \underline{1995} & \underline{1996} & \underline{1997} & \underline{1998} & \underline{1999} & \underline{2000} & \underline{2001} & \underline{2002} & \underline{2003} & \underline{2004} & \underline{2005} & \underline{2006} & \underline{2007} & \underline{2008} & \underline{2009} & \underline{2010} & \underline{2011} & \underline{2012} & \underline{2013} & \underline{2014} & \underline{2015} & \underline{\text { change }}\end{array}$


| Total | 1.6 | 1.8 | 1.5 | 1.9 | 1.2 | 1.5 | 1.0 | 1.0 | 0.9 | 0.9 | 1.2 | 0.8 | 0.8 | 1.0 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.9 | 0.8 | 0.5 | 0.5 | 0.5 | 0.8 | +0.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 3.1 | 3.4 | 2.9 | 3.2 | 2.2 | 2.9 | 1.7 | 1.8 | 1.6 | 1.5 | 2.5 | 1.5 | 1.4 | 1.7 | 1.2 | 1.1 | 1.6 | 1.2 | 1.4 | 1.5 | 1.5 | 0.8 | 0.9 | 0.9 | 1.2 | +0.3 |
| Female | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.3 | 0.1 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 | 0.3 | 0.3 | 0.0 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 4.1 | 5.6 | 4.4 | 5.4 | 3.5 | 5.1 | 3.6 | 6.1 | 3.8 | 2.7 | 4.5 | 4.5 | 4.0 | 3.8 | 2.4 | 4.0 | 3.2 | 5.0 | 2.5 | 4.0 | 3.6 | 2.3 | 1.9 | 3.1 | 3.3 | +0.1 |
| Complete 4 years | 1.2 | 1.2 | 1.1 | 1.4 | 0.9 | 1.0 | 0.6 | 0.5 | 0.5 | 0.7 | 0.9 | 0.5 | 0.5 | 0.7 | 0.5 | 0.4 | 0.6 | 0.4 | 0.7 | 0.6 | 0.6 | 0.4 | 0.4 | 0.3 | 0.5 | +0.2 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 1.2 | 0.9 | 0.6 | 0.8 | 0.6 | 0.8 | 0.6 | 0.4 | 0.1 | 0.4 | 0.7 | 0.6 | 0.8 | 1.0 | 0.1 | 0.6 | 0.2 | 0.9 | 1.1 | 0.7 | 0.7 | 0.5 | 0.1 | 0.1 | 0.2 | +0.1 |
| Midwest | 1.5 | 1.6 | 1.6 | 1.4 | 1.1 | 2.0 | 1.2 | 1.3 | 0.9 | 1.3 | 1.1 | 1.1 | 0.6 | 0.6 | 0.3 | 0.5 | 0.5 | 0.4 | 0.6 | 0.9 | 0.6 | 0.2 | 0.4 | 0.3 | 0.4 | +0.2 |
| South | 2.4 | 3.0 | 2.2 | 3.3 | 1.8 | 2.0 | 1.5 | 1.3 | 1.6 | 1.3 | 2.1 | 1.0 | 1.3 | 1.7 | 1.4 | 1.1 | 1.5 | 1.3 | 1.3 | 1.5 | 1.1 | 0.7 | 0.9 | 0.8 | 1.1 | +0.4 |
| West | 0.6 | 0.8 | 1.0 | 0.9 | 0.8 | 0.8 | 0.2 | 0.7 | 0.3 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.4 | 0.4 | 0.3 | 0.1 | 0.2 | 0.4 | 0.5 | 0.3 | 0.8 | 0.8 | 0.0 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 0.5 | 0.6 | 0.7 | 0.7 | 0.4 | 0.4 | 0.5 | 0.4 | 0.3 | 0.2 | 0.3 | 0.4 | 0.7 | 0.4 | * | 0.3 | 0.4 | 0.4 | 0.5 | 0.4 | 0.2 | 0.2 | 0.1 | 0.2 | 0.4 | +0.2 |
| Other MSA | 1.2 | 1.9 | 1.5 | 1.0 | 0.9 | 1.2 | 0.8 | 0.6 | 0.8 | 0.8 | 0.8 | 0.6 | 0.6 | 0.6 | 0.5 | 0.6 | 0.7 | 0.7 | 0.6 | 1.1 | 0.8 | 0.5 | 0.5 | 0.2 | 0.5 | +0.4 |
| Non-MSA | 3.3 | 2.8 | 2.5 | 4.6 | 2.6 | 3.4 | 1.6 | 2.6 | 1.8 | 2.0 | 2.9 | 1.8 | 1.5 | 2.6 | 1.9 | 1.6 | 1.7 | 1.5 | 1.7 | 1.1 | 1.7 | 1.0 | 1.2 | 1.8 | 1.8 | 0.0 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 2.8 | 3.5 | 2.0 | 3.0 | 2.2 | 1.5 | 3.2 | 2.6 | 0.9 | 1.4 | 1.8 | 2.2 | 1.8 | 2.8 | 1.4 | 1.3 | 1.9 | 1.5 | 1.6 | 1.0 | 1.6 | 0.3 | 0.9 | 1.5 | 0.7 | -0.7 |
| 2.5-3.0 | 2.2 | 2.6 | 1.9 | 2.7 | 1.7 | 3.1 | 1.1 | 1.5 | 1.6 | 1.4 | 2.1 | 1.0 | 1.0 | 1.1 | 0.5 | 0.9 | 1.0 | 1.3 | 0.9 | 1.9 | 0.9 | 0.6 | 0.8 | 1.3 | 1.3 | 0.0 |
| 3.5-4.0 | 1.4 | 1.2 | 1.8 | 1.9 | 1.2 | 1.7 | 0.9 | 1.3 | 0.8 | 1.3 | 0.3 | 1.0 | 0.8 | 0.8 | 0.8 | 0.7 | 0.8 | 0.8 | 1.3 | 0.8 | 0.9 | 1.0 | 0.6 | 0.2 | 0.3 | +0.1 |
| 4.5-5.0 | 0.8 | 1.3 | 1.1 | 1.1 | 0.9 | 0.3 | 0.8 | 0.5 | 0.5 | 0.4 | 0.5 | 0.3 | 0.2 | 0.7 | 0.8 | 0.6 | 0.6 | 0.3 | 0.4 | 0.4 | 0.7 | 0.3 | 0.3 | 0.0 | 0.7 | +0.7 s |
| 5.5-6.0 (High) | 1.0 | 0.9 | 0.6 | 0.7 | 0.8 | 0.8 | 0.4 | 0.5 | 0.4 | 0.4 | 1.7 | 0.9 | 1.1 | 0.8 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.6 | 0.4 | -0.3 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 2.0 | 2.0 | 2.0 | 1.9 | 1.7 | 1.5 | 1.2 | 1.1 | 1.1 | 1.2 | 1.0 | 0.7 | 0.9 | 0.9 | 0.7 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 0.9 | 0.7 | 0.8 | 0.9 | +0.1 |
| African American | - | 0.3 | 0.4 | 0.7 | 0.6 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.5 | 0.2 | 0.5 | 0.5 | 0.7 | 1.0 | 0.7 | 0.5 | 0.3 | 0.3 | 0.2 | 0.2 | +0.1 |
| Hispanic | - | 0.8 | 0.9 | 0.9 | 0.7 | 1.1 | 0.9 | 0.8 | 1.0 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.4 | 0.5 | 0.5 | 0.4 | 0.3 | 0.4 | 0.4 | 0.3 | 0.1 | 0.1 | 0.3 | +0.2 |

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

 Table S1.
'Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\text {b }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 133
SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 10

Percentage who used daily in last 30 days
2014-
$\underline{19} 1 \underline{1992} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015} \quad \underline{c h a n g e}$


| Total | 3.3 | 3.0 | 3.3 | 3.0 | 2.7 | 2.2 | 2.2 | 2.2 | 1.5 | 1.9 | 2.2 | 1.7 | 1.8 | 1.6 | 1.9 | 1.7 | 1.6 | 1.4 | 1.9 | 2.5 | 1.7 | 2.0 | 1.9 | 1.8 | 1.6 | -0.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 6.3 | 6.3 | 6.4 | 5.9 | 5.2 | 4.2 | 4.0 | 4.3 | 3.2 | 3.9 | 4.5 | 3.0 | 3.7 | 3.0 | 3.4 | 3.3 | 2.9 | 2.6 | 3.7 | 4.7 | 3.3 | 3.9 | 3.5 | 3.4 | 3.1 | -0.3 |
| Female | 0.2 | 0.1 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 0.2 | 0.3 | 0.2 | 0.1 | 0.2 | 0.3 | * | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | 0.3 | 0.3 | 0.4 | 0.2 | -0.2 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 7.6 | 8.5 | 8.8 | 6.5 | 7.8 | 5.4 | 6.3 | 6.4 | 3.6 | 5.9 | 6.6 | 4.6 | 4.8 | 5.0 | 5.4 | 6.8 | 4.4 | 6.2 | 7.7 | 8.2 | 5.2 | 6.2 | 7.6 | 7.7 | 5.8 | -1.9 |
| Complete 4 years | 2.3 | 1.9 | 2.2 | 2.2 | 1.9 | 1.6 | 1.5 | 1.5 | 1.2 | 1.2 | 1.5 | 1.0 | 1.3 | 1.1 | 1.3 | 1.0 | 1.2 | 0.8 | 1.3 | 1.8 | 1.3 | 1.6 | 1.2 | 1.2 | 1.2 | 0.0 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 1.8 | 1.0 | 1.7 | 3.0 | 2.0 | 1.3 | 1.5 | 1.2 | 1.2 | 0.9 | 1.1 | 0.8 | 1.6 | 2.1 | 1.3 | 0.8 | 1.4 | 0.5 | 1.5 | 2.3 | 1.2 | 1.2 | 1.7 | 0.9 | 1.4 | +0.4 |
| Midwest | 3.1 | 2.9 | 2.5 | 2.4 | 2.5 | 2.1 | 1.4 | 2.1 | 2.0 | 2.1 | 2.1 | 1.3 | 1.3 | 0.8 | 1.7 | 2.2 | 1.6 | 2.4 | 2.8 | 2.3 | 1.7 | 2.5 | 1.7 | 1.9 | 1.8 | -0.1 |
| South | 4.7 | 4.5 | 5.2 | 3.3 | 4.1 | 3.3 | 3.5 | 3.8 | 2.0 | 2.8 | 3.6 | 2.6 | 3.0 | 2.6 | 2.8 | 2.3 | 2.6 | 2.1 | 2.3 | 3.7 | 2.4 | 2.9 | 2.7 | 3.1 | 2.3 | -0.8 |
| West | 2.7 | 2.9 | 3.1 | 3.6 | 1.1 | 1.0 | 1.7 | 0.8 | 0.7 | 1.0 | 0.9 | 1.1 | 0.8 | 0.6 | 1.2 | 0.9 | 0.4 | 0.2 | 0.6 | 0.8 | 0.9 | 0.9 | 1.0 | 0.5 | 0.7 | +0.2 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 1.5 | 1.6 | 1.1 | 1.0 | 1.5 | 0.6 | 0.8 | 1.0 | 0.8 | 1.6 | 0.8 | 1.3 | 1.2 | 0.8 | 0.8 | 1.1 | 1.0 | 0.7 | 1.0 | 1.4 | 1.2 | 0.7 | 1.1 | 0.9 | 1.0 | +0.1 |
| Other MSA | 3.1 | 2.8 | 3.2 | 3.5 | 2.3 | 2.3 | 1.7 | 1.5 | 1.0 | 1.0 | 1.7 | 1.4 | 1.5 | 1.3 | 1.4 | 1.4 | 1.5 | 1.1 | 1.9 | 2.6 | 1.0 | 1.7 | 1.5 | 1.3 | 1.1 | -0.2 |
| Non-MSA | 5.0 | 4.9 | 5.3 | 4.2 | 4.9 | 3.6 | 4.6 | 5.0 | 3.5 | 3.8 | 5.0 | 2.6 | 3.5 | 3.4 | 4.2 | 3.2 | 2.6 | 3.2 | 3.1 | 3.8 | 3.5 | 4.5 | 3.7 | 4.7 | 4.1 | -0.5 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 2.5 | 3.9 | 4.1 | 3.2 | 3.6 | 1.7 | 3.8 | 2.6 | 1.7 | 2.4 | 3.8 | 1.7 | 1.7 | 1.5 | 2.0 | 3.6 | 2.0 | 1.0 | 2.9 | 2.5 | 2.0 | 1.5 | 1.1 | 2.2 | 1.5 | -0.7 |
| 2.5-3.0 | 4.8 | 5.0 | 4.3 | 3.8 | 3.4 | 3.4 | 2.0 | 2.8 | 1.7 | 2.3 | 3.2 | 1.2 | 2.1 | 1.8 | 2.6 | 2.9 | 2.1 | 1.7 | 2.3 | 3.4 | 2.8 | 3.4 | 3.0 | 2.9 | 3.2 | +0.3 |
| 3.5-4.0 | 3.3 | 2.8 | 3.1 | 3.0 | 2.8 | 1.4 | 2.4 | 2.7 | 1.6 | 1.6 | 1.5 | 2.0 | 1.9 | 2.4 | 2.0 | 1.3 | 1.6 | 1.9 | 2.2 | 3.0 | 1.4 | 2.2 | 2.0 | 2.3 | 0.7 | -1.6 ss |
| 4.5-5.0 | 2.5 | 1.7 | 2.5 | 2.7 | 2.9 | 2.3 | 1.7 | 1.8 | 1.6 | 1.9 | 1.9 | 1.5 | 1.7 | 0.7 | 1.7 | 1.1 | 1.4 | 1.3 | 1.3 | 1.7 | 1.4 | 1.7 | 1.2 | 1.2 | 2.1 | +0.9 |
| 5.5-6.0 (High) | 2.5 | 1.6 | 2.7 | 1.7 | 1.0 | 1.4 | 1.9 | 0.7 | 0.8 | 0.8 | 1.9 | 1.3 | 1.4 | 0.9 | 1.2 | 1.3 | 1.1 | 0.1 | 1.7 | 2.0 | 1.4 | 1.3 | 1.1 | 0.9 | 1.1 | +0.1 |
| Race/Ethnicity (2-year average): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 3.8 | 3.9 | 3.8 | 3.3 | 2.9 | 2.5 | 2.7 | 2.4 | 2.1 | 2.4 | 2.3 | 2.1 | 2.1 | 2.1 | 2.2 | 2.1 | 2.1 | 2.4 | 3.1 | 2.8 | 2.4 | 2.7 | 2.6 | 2.4 | -0.3 |
| African American | - | 0.5 | 0.4 | 0.6 | 0.5 | 0.4 | 0.4 | 0.4 | 0.3 | 0.4 | 0.9 | 0.8 | 0.4 | 0.6 | 0.8 | 0.8 | 0.6 | 0.4 | 0.4 | 0.6 | 0.9 | 0.8 | 0.7 | 0.8 | 1.0 | +0.2 |
| Hispanic | - | 1.1 | 1.0 | 0.8 | 1.2 | 1.2 | 1.3 | 1.3 | 0.8 | 0.8 | 1.0 | 0.5 | 0.4 | 0.9 | 1.0 | 0.7 | 0.3 | 0.2 | 0.4 | 0.5 | 0.7 | 0.9 | 0.5 | 0.4 | 0.3 | -0.1 |

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

 Table S2.
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 134
SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 12

| Approximate weighted $N=$ | Percentage who used daily in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{1975}$ | $\stackrel{1976}{-}$ | $\underline{1977}$ | $\stackrel{1978}{-}$ | $\stackrel{1979}{-}$ | $\stackrel{1980}{-}$ | $\stackrel{1981}{-}$ | $\stackrel{1982}{-}$ | $\frac{1983}{-}$ | $\frac{1984}{-}$ | $\stackrel{1985}{-}$ | $\frac{1986}{15,200}$ | $\frac{1987}{16,300}$ | $\underline{1988}$ | $\frac{1989}{16,700}$ | $\underline{1990}^{\mathrm{a}}$ | $\underline{1991}^{\mathrm{a}}$ | $\frac{1992}{15,800}$ | $\frac{1993}{16,300}$ | $\frac{1994}{15,400}$ |
| Total | - | - | - | - | - | - | - | - | - | - | - | 4.7 | 5.1 | 4.3 | 3.3 | - | - | 4.3 | 3.3 | 3.9 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | - | - | - | - | - | - | - | - | - | - | 10.0 | 10.7 | 8.6 | 6.8 | - | - | 7.8 | 6.4 | 7.2 |
| Female | - | - | - | - | - | - | - | - | - | - | - | 0.1 | 0.1 | 0.5 | 0.0 | - | - | 0.5 | 0.4 | 0.3 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | - | - | - | - | - | - | - | - | - | - | 7.1 | 7.8 | 5.8 | 4.2 | - | - | 7.4 | 4.3 | 6.6 |
| Complete 4 years | - | - | - | - | - | - | - | - | - | - | - | 3.3 | 3.7 | 3.5 | 2.7 | - | - | 3.3 | 3.1 | 2.8 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | - | - | - | - | - | - | - | - | - | - | 4.6 | 2.1 | 2.3 | 1.3 | - | - | 1.8 | 1.9 | 4.5 |
| Midwest | - | - | - | - | - | - | - | - | - | - | - | 4.5 | 4.5 | 3.5 | 2.2 | - | - | 4.0 | 4.4 | 4.7 |
| South | - | - | - | - | - | - | - | - | - | - | - | 6.1 | 7.4 | 6.3 | 4.2 | - | - | 5.4 | 4.0 | 3.5 |
| West | - | - | - | - | - | - | - | - | - | - | - | 2.9 | 5.5 | 4.0 | 4.9 | - | - | 5.1 | 1.7 | 3.2 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | - | - | - | - | - | - | - | - | - | - | 3.4 | 3.3 | 3.0 | 3.0 | - | - | 2.0 | 1.7 | 2.0 |
| Other MSA | - | - | - | - | - | - | - | - | - | - | - | 3.3 | 4.3 | 2.5 | 2.8 | - | - | 4.2 | 3.0 | 3.6 |
| Non-MSA | - | - | - | - | - | - | - | - | - | - | - | 7.8 | 8.5 | 8.9 | 4.6 | - | - | 6.5 | 5.2 | 6.7 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | - | - | - | - | - | - | - | - | - | - | 1.9 | 5.6 | 5.3 | 1.8 | - | - | 6.7 | 3.9 | 6.6 |
| 2.5-3.0 | - | - | - | - | - | - | - | - | - | - | - | 7.6 | 6.9 | 3.2 | 3.9 | - | - | 4.8 | 3.5 | 3.8 |
| 3.5-4.0 | - | - | - | - | - | - | - | - | - | - | - | 3.5 | 4.7 | 5.4 | 3.1 | - | - | 5.2 | 3.3 | 3.3 |
| 4.5-5.0 | - | - | - | - | - | - | - | - | - | - | - | 3.9 | 5.0 | 4.7 | 4.6 | - | - | 2.4 | 3.7 | 3.9 |
| 5.5-6.0 (High) | - | - | - | - | - | - | - | - | - | - | - | 3.3 | 2.1 | 3.5 | 1.2 | - | - | 2.6 | 1.8 | 2.7 |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | - | - | - | - | - | - | - | - | - | - | 5.8 | 5.4 | 4.5 | - | - | - | 4.8 | 4.7 |
| African American | - | - | - | - | - | - | - | - | - | - | - | - | 0.6 | 1.0 | 0.5 | - | - | - | 0.3 | 0.7 |
| Hispanic | - | - | - | - | - | - | - | - | - | - | - | - | 0.8 | 2.1 | 2.1 | - | - | - | 1.6 | 0.7 |

(Table continued on next page.)

# TABLE 134 (cont.) 

## SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 12

Percentage who used daily in last 30 days
2014 $\begin{array}{lllllllllllllllllllllllllllllll}1995 & \underline{1996} & \underline{1997} & \underline{1998} & \underline{1999} & \underline{2000} & \underline{2001} & \underline{2002} & \underline{2003} & \underline{2004} & \underline{2005} & \underline{2006} & \underline{2007} & \underline{2008} & \underline{2009} & \underline{2010} & \underline{2011} & \underline{2012} & \underline{2013} & \underline{2014} & \underline{2015} & \underline{\text { change }}\end{array}$


| Total | 3.6 | 3.3 | 4.4 | 3.2 | 2.9 | 3.2 | 2.8 | 2.0 | 2.2 | 2.8 | 2.5 | 2.2 | 2.8 | 2.7 | 2.9 | 3.1 | 3.1 | 3.2 | 3.0 | 3.4 | 2.9 | -0.4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 7.2 | 7.1 | 8.6 | 6.0 | 5.7 | 6.5 | 5.6 | 4.3 | 4.6 | 5.6 | 4.7 | 4.3 | 5.6 | 5.6 | 5.8 | 5.9 | 6.0 | 5.7 | 5.7 | 6.5 | 5.8 | -0.7 |
| Female | 0.1 | 0.1 | 0.2 | 0.0 | 0.0 | 0.4 | 0.3 | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.2 | 0.0 | 0.4 | 0.2 | 0.0 | 0.3 | 0.0 | 0.1 | 0.0 | -0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 6.5 | 6.8 | 9.1 | 6.5 | 3.4 | 7.9 | 4.7 | 2.4 | 5.3 | 5.0 | 7.1 | 6.1 | 5.3 | 6.6 | 6.4 | 7.5 | 7.8 | 8.4 | 7.8 | 8.8 | 8.6 | -0.1 |
| Complete 4 years | 2.7 | 2.6 | 2.7 | 2.3 | 2.6 | 2.0 | 2.1 | 1.4 | 1.4 | 2.0 | 1.5 | 1.2 | 2.1 | 1.9 | 2.3 | 2.1 | 2.2 | 2.0 | 1.8 | 1.9 | 1.7 | -0.3 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 2.2 | 3.2 | 3.5 | 0.5 | 1.0 | 1.3 | 1.5 | 1.6 | 2.7 | 1.9 | 2.1 | 1.9 | 1.9 | 1.8 | 2.1 | 2.4 | 3.8 | 3.2 | 1.6 | 3.9 | 2.1 | -1.8 |
| Midwest | 4.9 | 4.1 | 7.0 | 4.0 | 3.4 | 5.0 | 2.8 | 2.2 | 1.1 | 3.0 | 3.8 | 2.1 | 3.9 | 3.1 | 4.4 | 5.3 | 4.1 | 3.7 | 4.9 | 5.6 | 3.8 | -1.8 |
| South | 4.2 | 3.1 | 3.6 | 4.6 | 4.0 | 4.0 | 3.8 | 2.4 | 2.6 | 3.7 | 2.7 | 3.0 | 4.2 | 2.7 | 3.7 | 3.7 | 2.9 | 4.3 | 2.9 | 2.5 | 3.3 | +0.8 |
| West | 1.6 | 2.9 | 3.0 | 1.8 | 1.9 | 1.6 | 2.6 | 1.3 | 2.2 | 1.7 | 1.0 | 1.0 | 0.1 | 3.0 | 0.7 | 0.6 | 1.9 | 1.3 | 2.2 | 2.3 | 2.0 | -0.2 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 2.1 | 2.6 | 3.3 | 0.9 | 0.5 | 0.9 | 1.4 | 0.4 | 0.5 | 0.8 | 1.0 | 1.4 | 1.6 | 0.5 | 0.9 | 0.9 | 1.6 | 2.1 | 1.4 | 0.9 | 0.4 | -0.5 |
| Other MSA | 3.2 | 1.9 | 3.3 | 2.4 | 3.1 | 3.7 | 2.6 | 2.0 | 2.2 | 2.2 | 2.4 | 1.6 | 2.4 | 2.1 | 2.4 | 2.0 | 2.9 | 1.9 | 2.3 | 3.5 | 2.9 | -0.6 |
| Non-MSA | 5.8 | 6.7 | 7.7 | 7.6 | 4.9 | 5.3 | 5.0 | 3.8 | 4.2 | 6.2 | 4.8 | 4.4 | 5.8 | 6.8 | 6.7 | 9.2 | 5.9 | 8.1 | 7.0 | 6.4 | 7.1 | +0.7 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 2.7 | 2.2 | 1.3 | 2.2 | 2.1 | 2.9 | 4.0 | 2.2 | 4.9 | 3.0 | 2.2 | 1.3 | 2.5 | 0.7 | 1.2 | 2.2 | 0.8 | 3.1 | 2.0 | 0.6 | 1.2 | +0.6 |
| 2.5-3.0 | 4.7 | 3.6 | 5.8 | 5.2 | 3.7 | 4.2 | 3.2 | 1.7 | 1.4 | 4.2 | 3.5 | 3.3 | 3.8 | 3.4 | 3.5 | 3.9 | 4.7 | 5.9 | 3.0 | 3.8 | 4.1 | +0.3 |
| 3.5-4.0 | 2.9 | 3.6 | 3.7 | 2.6 | 3.5 | 3.9 | 2.8 | 2.1 | 2.0 | 2.0 | 3.7 | 1.7 | 2.7 | 2.9 | 2.5 | 2.9 | 2.9 | 3.1 | 3.0 | 3.8 | 3.5 | -0.4 |
| 4.5-5.0 | 3.5 | 4.6 | 3.9 | 3.0 | 1.9 | 2.1 | 2.7 | 2.4 | 2.8 | 2.6 | 1.8 | 2.6 | 3.1 | 2.7 | 3.5 | 3.2 | 3.5 | 2.3 | 3.7 | 4.4 | 2.7 | -1.7 |
| 5.5-6.0 (High) | 2.7 | 1.1 | 5.0 | 2.5 | 2.1 | 2.5 | 2.5 | 0.2 | 1.8 | 1.9 | 0.4 | 1.3 | 1.8 | 2.2 | 3.1 | 2.8 | 0.8 | 1.9 | 1.5 | 2.4 | 1.8 | -0.6 |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 4.6 | 4.1 | 5.0 | 5.2 | 4.3 | 4.3 | 4.4 | 3.5 | 2.9 | 3.2 | 3.5 | 3.4 | 3.4 | 3.8 | 4.5 | 4.7 | 4.6 | 4.6 | 4.3 | 4.6 | 4.7 | +0.1 |
| African American | 0.6 | 0.3 | 0.2 | 0.0 | 0.0 | 0.1 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 | 0.8 | 0.9 | 0.6 | 1.5 | 1.4 | 0.3 | 0.6 | 1.3 | 0.6 | -0.6 |
| Hispanic | 1.2 | 2.2 | 1.9 | 0.8 | 0.4 | 0.9 | 0.6 | 0.3 | 0.7 | 1.1 | 0.7 | 0.4 | 0.7 | 0.6 | 0.2 | 0.4 | 0.5 | 0.5 | 0.4 | 0.5 | 0.8 | +0.3 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent classes: $s=.05, \mathrm{ss}=.01, \mathrm{sss}=.001$. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms; $N$ is one sixth of $N$ indicated in Table S 3 ,
Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.
${ }^{2}$ Prevalence of smokeless tobacco use was not asked of 12 th graders in 1990 and 1991. Prior to 1990 the prevalence-of-use question on smokeless tobacco was located near the end of one 12 th-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.
Parental education is an average score of mother's education and father's education. See appendix B for details,
To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 135
DISSOLVABLE TOBACCO PRODUCTS: Trends in Annual
Prevalence of Use by Subgroups in Grades 8, 10, and 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 8th Graders |  |  |  |  |  | 10th Graders |  |  |  |  |  | 12th Graders |  |  |  |  |  |  |
|  | $\begin{gathered} 1991- \\ \underline{2011} \end{gathered}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  | $\begin{gathered} 1991- \\ \underline{2011} \end{gathered}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  | $\begin{gathered} 2009- \\ \underline{2010} \end{gathered}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ |  |
| Approximate weighted $N=$ | - | 15,100 | 14,600 | 14,600 | 14,400 |  | - | 15,000 | 12,900 | 13,000 | 15,600 |  | - | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | - | 1.0 | 1.1 | 1.1 | 0.9 | -0.2 | - | 1.6 | 1.2 | 1.3 | 1.1 | $-0.3$ | - | 1.5 | 1.6 | 1.9 | 1.1 | 1.4 | +0.3 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 0.8 | 1.5 | 1.3 | 1.1 | -0.1 | - | 2.3 | 2.0 | 1.9 | 1.4 | -0.5 | - | 1.8 | 2.4 | 3.3 | 1.1 | 1.8 | +0.7 |
| Female | - | 1.0 | 0.8 | 1.0 | 0.8 | -0.2 | - | 0.9 | 0.6 | 0.7 | 0.6 | -0.1 | - | 1.0 | 0.4 | 0.5 | 0.7 | 0.7 | 0.0 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 4.4 | 4.5 | 6.1 | 3.3 | -2.8 | - | 5.6 | 2.8 | 5.9 | 4.1 | -1.8 | - | 3.0 | 1.7 | 3.9 | 4.6 | 2.3 | $-2.4$ |
| Complete 4 years | - | 0.8 | 0.9 | 0.7 | 0.7 | 0.0 | - | 1.2 | 1.0 | 0.8 | 0.7 | -0.1 | - | 1.1 | 1.6 | 1.3 | 0.3 | 1.0 | +0.7 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 0.3 | 0.5 | 1.4 | 0.5 | -0.9 | - | 0.5 | 1.0 | 1.1 | 0.6 | -0.5 | - | 1.3 | 1.4 | 1.3 | 0.3 | 1.1 | +0.8 |
| Midwest | - | 0.8 | 0.4 | 0.5 | 1.0 | +0.4 | - | 1.7 | 1.2 | 0.9 | 1.0 | +0.1 | - | 0.5 | 0.8 | 2.0 | 0.8 | 0.5 | -0.3 |
| South | - | 1.4 | 1.7 | 1.2 | 1.2 | 0.0 | - | 1.7 | 1.6 | 1.3 | 0.9 | -0.4 | - | 2.4 | 2.2 | 1.5 | 1.5 | 2.5 | +1.0 |
| West | - | 1.1 | 1.3 | 1.4 | 0.7 | -0.8 | - | 2.1 | 0.9 | 1.9 | 1.6 | -0.3 | - | 1.5 | 2.0 | 2.7 | 1.3 | 0.6 | -0.7 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 1.2 | 1.0 | 1.2 | 0.8 | -0.4 | - | 1.4 | 0.8 | 1.1 | 0.7 | -0.4 | - | 1.7 | 1.7 | 1.8 | 1.9 | 0.7 | -1.2 |
| Other MSA | - | 0.7 | 1.1 | 0.8 | 1.0 | +0.3 | - | 1.5 | 1.0 | 1.0 | 1.0 | 0.0 | - | 1.4 | 1.4 | 1.6 | 0.8 | 1.8 | +1.0 |
| Non-MSA | - | 1.3 | 1.3 | 1.7 | 0.9 | -0.8 | - | 1.9 | 2.2 | 2.6 | 1.7 | -0.9 | - | 1.5 | 2.1 | 2.7 | 0.7 | 1.4 | +0.7 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 1.2 | 2.6 | 2.4 | 1.3 | -1.1 | - | 2.2 | 1.4 | 0.5 | 2.8 | +2.3 s | - | 0.6 | 1.1 | 3.8 | 2.5 | 1.9 | -0.6 |
| 2.5-3.0 | - | 1.3 | 0.7 | 1.9 | 1.1 | -0.8 | - | 2.2 | 2.0 | 1.2 | 1.6 | +0.4 | - | 2.7 | 2.5 | 1.0 | 1.9 | 0.6 | -1.3 |
| 3.5-4.0 | - | 1.4 | 1.7 | 0.8 | 1.4 | +0.6 | - | 2.3 | 1.0 | 2.2 | 0.7 | -1.5 s | - | 1.1 | 1.6 | 2.3 | 1.0 | 1.0 | +0.1 |
| 4.5-5.0 | - | 0.7 | 0.7 | 0.8 | 0.6 | -0.1 | - | 0.6 | 1.1 | 0.9 | 0.6 | -0.3 | - | 0.5 | 1.3 | 1.5 | 0.1 | 2.1 | +2.0 s |
| 5.5-6.0 (High) | - | 0.6 | 0.8 | 0.8 | 0.2 | -0.6 | - | 1.1 | 0.9 | 0.7 | 0.8 | +0.1 | - | 1.9 | 0.7 | 1.7 | 0.1 | 0.4 | +0.3 |
| Race/Ethnicity (2-year data): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 0.8 | 1.0 | 0.9 | -0.1 | - | - | 1.4 | 1.3 | 1.1 | -0.2 | - | - | 1.6 | 1.8 | 1.5 | 1.2 | -0.3 |
| African American | - | - | 1.2 | 1.0 | 1.0 | 0.0 | - | - | 0.8 | 1.2 | 1.3 | +0.1 | - | - | 1.5 | 1.8 | 1.9 | 2.4 | +0.5 ss |
| Hispanic | - | - | 1.7 | 1.6 | 1.2 | -0.4 | - | - | 1.4 | 1.0 | 1.0 | 0.0 | - | - | 1.0 | 1.4 | 1.1 | 0.5 | -0.6 ss |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Tables S1, S2, and S3 for the number of subgroup cases. See appendix B for definition of variables in table. For 8th and 10th graders only: Data based on one of four forms; $N$ is one third of $N$ indicated in S1 and S2. For 12 th graders only: Data based on one of six forms; $N$ is one sixth of $N$ indicated in Table S3.
Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.
${ }^{\text {a }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

TABLE 136
SNUS: Trends in Annual Prevalence of Use
by Subgroups in Grades 8, 10, and 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 8th Graders |  |  |  |  |  | 10th Graders |  |  |  |  |  | 12th Graders |  |  |  |  |  |  |
|  | $\begin{gathered} 1991- \\ \underline{2011} \end{gathered}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ | $\begin{gathered} 1991- \\ \underline{2011} \end{gathered}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ | $\begin{gathered} 1975- \\ \underline{2010} \\ \hline \end{gathered}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\underline{2015}$ | $\begin{gathered} 2014- \\ 2015 \\ \text { change } \end{gathered}$ |
| Approximate weighted $N=$ | - | 15,100 | 14,600 | 14,600 | 14,400 |  | - | 15,000 | 12,900 | 13,000 | 15,600 |  | - | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | - | 2.4 | 2.0 | 2.2 | 1.9 | -0.3 | - | 6.9 | 5.2 | 4.5 | 4.0 | -0.5 | - | 7.9 | 7.9 | 7.7 | 5.8 | 5.8 | 0.0 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 3.3 | 3.3 | 3.1 | 3.0 | -0.1 | - | 12.1 | 9.3 | 7.5 | 6.5 | -1.0 | - | 13.9 | 14.1 | 14.6 | 9.9 | 10.5 | +0.6 |
| Female | - | 1.5 | 0.8 | 1.5 | 1.0 | -0.5 | - | 2.1 | 1.3 | 1.7 | 1.7 | -0.1 | - | 1.9 | 1.2 | 1.4 | 1.5 | 1.3 | -0.2 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 9.0 | 7.4 | 8.9 | 6.0 | -2.9 | - | 17.5 | 16.0 | 15.1 | 8.2 | -6.9 s | - | 15.1 | 12.2 | 13.6 | 16.0 | 12.8 | -3.2 |
| Complete 4 years | - | 2.0 | 1.6 | 1.6 | 1.5 | -0.1 | - | 5.8 | 4.0 | 3.4 | 3.6 | +0.2 | - | 6.2 | 6.6 | 6.1 | 3.5 | 4.4 | +0.9 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 1.8 | 1.1 | 1.4 | 1.2 | -0.2 | - | 6.2 | 5.5 | 3.3 | 4.0 | +0.7 | - | 7.8 | 8.0 | 7.3 | 6.0 | 7.8 | +1.8 |
| Midwest | - | 2.0 | 1.2 | 2.2 | 2.4 | +0.2 | - | 7.8 | 6.7 | 5.7 | 4.8 | -0.9 | - | 10.6 | 8.3 | 8.3 | 7.1 | 5.6 | -1.5 |
| South | - | 3.4 | 3.3 | 2.4 | 2.3 | -0.1 | - | 8.4 | 5.0 | 5.2 | 4.7 | -0.5 | - | 6.4 | 8.8 | 8.9 | 5.0 | 6.8 | +1.8 |
| West | - | 1.6 | 1.4 | 2.2 | 1.0 | -1.2 | - | 4.2 | 3.8 | 3.5 | 2.1 | -1.3 | - | 7.1 | 6.2 | 5.5 | 5.9 | 2.9 | -3.0 s |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 1.2 | 1.6 | 1.1 | 0.8 | -0.3 | - | 4.1 | 3.1 | 3.4 | 2.9 | -0.5 | - | 6.9 | 6.1 | 6.7 | 3.7 | 3.6 | -0.2 |
| Other MSA | - | 2.4 | 1.8 | 1.7 | 1.7 | -0.1 | - | 7.4 | 4.8 | 3.9 | 3.7 | -0.2 | - | 6.5 | 7.8 | 7.9 | 5.2 | 6.8 | +1.6 |
| Non-MSA | - | 4.5 | 3.0 | 4.6 | 3.9 | -0.6 | - | 9.6 | 8.9 | 8.1 | 6.7 | -1.4 | - | 12.2 | 10.8 | 8.6 | 9.6 | 6.9 | -2.8 |
| Parental Education: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 2.2 | 3.0 | 3.1 | 1.1 | $-2.0 \mathrm{~s}$ | - | 4.9 | 4.8 | 3.4 | 3.8 | +0.4 | - | 2.9 | 4.8 | 9.2 | 4.5 | 4.4 | -0.1 |
| 2.5-3.0 | - | 3.9 | 2.0 | 3.5 | 2.7 | -0.8 | - | 8.5 | 6.9 | 4.3 | 5.3 | +1.1 | - | 8.8 | 8.9 | 5.7 | 7.5 | 4.3 | -3.2 |
| 3.5-4.0 | - | 3.9 | 3.0 | 2.2 | 1.7 | -0.5 | - | 8.3 | 6.2 | 5.2 | 3.8 | -1.4 | - | 9.4 | 6.8 | 9.7 | 5.5 | 6.0 | +0.5 |
| 4.5-5.0 | - | 1.5 | 1.4 | 1.4 | 2.1 | +0.7 | - | 6.3 | 3.4 | 4.7 | 3.9 | -0.9 | - | 8.1 | 10.0 | 7.5 | 6.3 | 7.8 | +1.5 |
| 5.5-6.0 (High) | - | 1.1 | 1.3 | 1.2 | 0.9 | -0.3 | - | 5.4 | 4.7 | 4.4 | 3.7 | -0.8 | - | 5.4 | 6.2 | 6.7 | 2.5 | 5.3 | +2.7 s |
| Race/Ethnicity (2-year data): ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 2.7 | 2.6 | 2.7 | +0.1 | - | - | 8.1 | 7.1 | 6.0 | -1.1 | - | - | 10.2 | 9.9 | 9.1 | 8.1 | -1.0 |
| African American | - | - | 0.9 | 0.7 | 0.9 | +0.2 | - | - | 1.6 | 1.4 | 2.2 | +0.8 | - | - | 3.4 | 3.3 | 2.1 | 2.2 | +0.1 |
| Hispanic | - | - | 1.8 | 1.5 | 1.0 | -0.5 |  | - | 2.6 | 1.2 | 1.1 | -0.1 | - |  | 4.4 | 4.6 | 2.9 | 2.8 | -0.1 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' - ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Tables S1, S2, and S3 for the number of subgroup cases. See appendix B for definition of variables in table. For 8th and 10th graders only: Data based on one of four forms; $N$ is one third of $N$ indicated in S 1 and S 2 . For 12 th graders only: Data based on two of six forms; $N$ is two sixths of $N$ indicated in Table S3
Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

${ }^{\mathrm{b}}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 137
STEROIDS: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in $\underline{\text { Grade } 8}$

Percentage who used in last 12 months
2014-



| Total | 1.0 | 1.1 | 0.9 | 1.2 | 1.0 | 0.9 | 1.0 | 1.2 | 1.7 | 1.7 | 1.6 | 1.5 | 1.4 | 1.1 | 1.1 | 0.9 | 0.8 | 0.9 | 0.8 | 0.5 | 0.7 | 0.6 | 0.6 | 0.6 | 0.5 | 0.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1.8 | 1.7 | 1.4 | 1.8 | 1.3 | 1.1 | 1.3 | 1.6 | 2.5 | 2.2 | 2.3 | 1.8 | 1.8 | 1.3 | 1.2 | 1.2 | 1.1 | 1.2 | 1.0 | 0.7 | 1.0 | 0.8 | 0.7 | 0.6 | 0.5 | -0.1 |
| Female | 0.3 | 0.5 | 0.3 | 0.6 | 0.8 | 0.7 | 0.7 | 0.7 | 0.9 | 1.0 | 1.0 | 1.2 | 1.1 | 1.0 | 0.9 | 0.6 | 0.4 | 0.5 | 0.5 | 0.3 | 0.4 | 0.3 | 0.4 | 0.5 | 0.5 | +0.1 |
| College Plans: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 2.2 | 2.4 | 2.2 | 2.5 | 2.2 | 1.5 | 2.4 | 2.8 | 4.0 | 3.6 | 3.1 | 3.6 | 2.7 | 3.2 | 2.4 | 2.4 | 2.7 | 2.3 | 2.2 | 1.4 | 1.4 | 1.4 | 1.6 | 1.4 | 1.1 | -0.3 |
| Complete 4 years | 0.8 | 0.9 | 0.7 | 1.0 | 0.9 | 0.8 | 0.8 | 1.0 | 1.4 | 1.5 | 1.5 | 1.3 | 1.3 | 0.9 | 0.9 | 0.7 | 0.6 | 0.8 | 0.7 | 0.5 | 0.7 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 |
| Region: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 0.7 | 1.1 | 0.6 | 1.0 | 1.0 | 1.1 | 1.0 | 1.1 | 1.6 | 1.7 | 1.8 | 1.2 | 1.1 | 0.8 | 0.6 | 0.6 | 0.5 | 0.8 | 0.8 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.5 | -0.1 |
| Midwest | 1.1 | 1.2 | 1.0 | 1.0 | 1.1 | 0.8 | 1.0 | 1.2 | 1.6 | 1.8 | 1.7 | 1.6 | 1.7 | 1.2 | 1.1 | 0.8 | 0.7 | 0.9 | 0.7 | 0.7 | 0.9 | 0.5 | 0.3 | 0.6 | 0.6 | +0.1 |
| South | 1.2 | 1.1 | 1.0 | 1.6 | 1.1 | 0.9 | 0.9 | 1.4 | 1.9 | 1.8 | 1.9 | 1.9 | 1.6 | 1.3 | 1.3 | 1.1 | 1.0 | 1.1 | 0.7 | 0.5 | 0.8 | 0.8 | 0.8 | 0.6 | 0.6 | 0.0 |
| West | 0.7 | 0.9 | 0.7 | 1.0 | 1.0 | 0.8 | 1.1 | 0.9 | 1.4 | 1.3 | 0.9 | 1.2 | 1.2 | 1.0 | 1.0 | 0.7 | 0.8 | 0.6 | 0.9 | 0.4 | 0.6 | 0.5 | 0.5 | 0.4 | 0.4 | -0.1 |
| Population Density: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 0.8 | 1.0 | 0.8 | 0.9 | 0.9 | 0.8 | 0.9 | 1.0 | 1.3 | 1.6 | 1.6 | 1.1 | 1.0 | 1.0 | 0.8 | 0.8 | 0.7 | 0.8 | 0.4 | 0.4 | 0.3 | 0.6 | 0.6 | 0.3 | 0.5 | +0.2 |
| Other MSA | 1.2 | 1.2 | 0.9 | 1.2 | 1.2 | 0.9 | 0.9 | 1.2 | 1.9 | 1.5 | 1.7 | 1.6 | 1.5 | 1.1 | 1.1 | 0.8 | 0.8 | 0.9 | 0.9 | 0.7 | 0.8 | 0.6 | 0.6 | 0.6 | 0.4 | -0.2 |
| Non-MSA | 1.0 | 0.9 | 0.9 | 1.5 | 0.9 | 0.9 | 1.2 | 1.4 | 1.7 | 2.0 | 1.6 | 2.1 | 1.8 | 1.3 | 1.3 | 1.2 | 1.0 | 1.0 | 0.9 | 0.4 | 1.2 | 0.6 | 0.7 | 0.7 | 0.7 | 0.0 |
| Parental Education: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 1.8 | 1.2 | 1.2 | 1.6 | 1.3 | 0.9 | 1.4 | 1.7 | 2.2 | 2.5 | 2.0 | 1.8 | 1.3 | 1.5 | 2.1 | 1.0 | 1.7 | 1.7 | 2.1 | 0.7 | 1.0 | 0.6 | 0.6 | 0.8 | 0.8 | 0.0 |
| 2.5-3.0 | 1.1 | 1.2 | 0.8 | 1.6 | 1.3 | 0.7 | 0.9 | 1.1 | 1.9 | 2.1 | 1.6 | 1.7 | 1.9 | 1.4 | 1.0 | 0.9 | 0.9 | 1.0 | 0.7 | 0.5 | 0.9 | 0.6 | 0.7 | 0.5 | 0.7 | +0.2 |
| 3.5-4.0 | 1.0 | 1.0 | 1.1 | 1.3 | 0.8 | 0.9 | 1.2 | 1.4 | 1.6 | 1.3 | 1.9 | 1.9 | 1.6 | 1.0 | 1.1 | 1.0 | 0.8 | 1.0 | 0.9 | 0.5 | 0.9 | 0.4 | 0.6 | 0.7 | 0.3 | -0.3 |
| 4.5-5.0 | 0.7 | 0.9 | 0.8 | 0.8 | 0.8 | 1.2 | 0.9 | 1.1 | 1.4 | 1.6 | 1.5 | 1.0 | 1.3 | 1.2 | 1.1 | 0.7 | 0.4 | 0.7 | 0.5 | 0.6 | 0.5 | 0.5 | 0.3 | 0.5 | 0.6 | +0.1 |
| 5.5-6.0 (High) | 1.0 | 1.3 | 0.6 | 0.9 | 1.5 | 0.9 | 1.2 | 1.1 | 2.0 | 1.6 | 1.7 | 1.6 | 1.0 | 0.7 | 0.7 | 1.1 | 0.8 | 0.8 | 0.6 | 0.5 | 0.8 | 0.9 | 0.8 | 0.6 | 0.5 | -0.1 |
| Race/Ethnicity (2-year average): ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 1.1 | 1.0 | 1.0 | 1.1 | 0.9 | 0.9 | 1.1 | 1.5 | 1.9 | 1.8 | 1.7 | 1.6 | 1.3 | 1.0 | 0.9 | 0.8 | 0.8 | 0.7 | 0.5 | 0.5 | 0.6 | 0.5 | 0.5 | 0.5 | 0.0 |
| African American | - | 0.7 | 0.6 | 0.8 | 0.9 | 0.7 | 0.6 | 0.7 | 0.8 | 0.7 | 0.8 | 1.2 | 1.2 | 0.9 | 0.9 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.7 | 0.8 | 0.7 | 0.6 | -0.1 |
| Hispanic | - | 1.2 | 1.1 | 1.1 | 1.3 | 1.5 | 1.4 | 1.4 | 1.8 | 1.8 | 1.5 | 1.5 | 1.7 | 1.7 | 1.2 | 0.9 | 0.7 | 0.7 | 0.9 | 0.8 | 0.7 | 0.4 | 0.5 | 0.6 | 0.5 | -0.1 |


| Hispanic | - | 1.2 | 1.1 |
| :--- | :--- | :--- | :--- |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |



 anly drug use not under a doctor's orders is included here.
${ }^{\text {b }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\text {c }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

## TABLE 138

STEROIDS: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 10

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014- |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | change |
| Approximate weighted $N=$ | 14,800 | 14,800 | 15,300 | 15,800 | 17,000 | 15,600 | 15,500 | 15,000 | 13,600 | 14,300 | 14,000 | 14,300 | 15,800 | 16,400 | 16,200 | 16,200 | 16,100 | 15,100 | 15,900 | 15,200 | 14,900 | 15,000 | 12,900 | 13,000 | 15,600 |  |
| Total | 1.1 | 1.1 | 1.0 | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 | 1.7 | 2.2 | 2.1 | 2.2 | 1.7 | 1.5 | 1.3 | 1.2 | 1.1 | 0.9 | 0.8 | 1.0 | 0.9 | 0.8 | 0.8 | 0.8 | 0.7 | 0.0 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1.9 | 1.9 | 1.7 | 1.9 | 2.0 | 1.7 | 1.8 | 1.9 | 2.8 | 3.6 | 3.3 | 3.2 | 2.3 | 2.3 | 1.8 | 1.9 | 1.7 | 1.4 | 1.2 | 1.3 | 1.4 | 1.3 | 1.3 | 1.1 | 1.0 | -0.1 |
| Female | 0.3 | 0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.6 | 0.6 | 0.7 | 0.8 | 1.0 | 1.2 | 1.1 | 0.9 | 0.7 | 0.5 | 0.4 | 0.5 | 0.4 | 0.5 | 0.4 | 0.4 | 0.5 | 0.5 | 0.4 | -0.1 |
| College Plans |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 1.7 | 1.3 | 1.9 | 2.1 | 2.1 | 2.1 | 2.4 | 1.9 | 2.6 | 3.6 | 3.2 | 3.0 | 2.7 | 2.9 | 1.9 | 2.3 | 1.9 | 2.6 | 1.6 | 2.6 | 2.1 | 2.3 | 1.2 | 2.5 | 1.5 | -1.1 |
| Complete 4 years | 0.9 | 1.0 | 0.8 | 0.9 | 1.1 | 1.0 | 1.0 | 1.1 | 1.6 | 1.9 | 1.9 | 2.1 | 1.5 | 1.4 | 1.2 | 1.1 | 0.9 | 0.7 | 0.7 | 0.8 | 0.8 | 0.7 | 0.8 | 0.6 | 0.7 | +0.1 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 1.2 | 0.9 | 1.0 | 1.0 | 1.1 | 1.0 | 0.9 | 1.4 | 2.0 | 1.8 | 1.9 | 2.0 | 1.9 | 1.4 | 1.5 | 0.9 | 1.1 | 0.8 | 1.2 | 1.1 | 0.8 | 0.8 | 1.0 | 0.5 | 1.1 | +0.7 |
| Midwest | 1.0 | 1.1 | 1.2 | 1.1 | 1.2 | 1.4 | 1.2 | 1.1 | 1.8 | 2.1 | 1.5 | 1.8 | 1.9 | 1.4 | 1.2 | 1.2 | 1.2 | 1.0 | 0.7 | 0.7 | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 | 0.0 |
| South | 1.0 | 1.2 | 1.0 | 1.3 | 1.3 | 1.4 | 1.4 | 1.4 | 1.7 | 2.5 | 2.5 | 2.5 | 1.5 | 1.9 | 1.5 | 1.6 | 1.3 | 1.0 | 0.7 | 1.2 | 1.2 | 1.0 | 0.8 | 1.2 | 0.7 | -0.5 |
| West | 1.0 | 1.2 | 0.8 | 1.1 | 1.3 | 0.6 | 1.3 | 0.9 | 1.4 | 2.1 | 2.3 | 2.4 | 1.4 | 1.4 | 0.9 | 0.9 | 0.7 | 0.8 | 0.6 | 0.8 | 0.7 | 0.7 | 0.8 | 0.6 | 0.6 | 0.0 |
| Population Density |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 1.5 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 0.8 | 1.2 | 2.3 | 1.9 | 2.1 | 1.4 | 1.2 | 0.9 | 1.0 | 0.8 | 0.7 | 0.9 | 0.9 | 0.6 | 0.9 | 0.9 | 0.8 | 0.7 | -0.1 |
| Other MSA | 1.0 | 1.0 | 0.9 | 1.1 | 1.4 | 1.2 | 1.2 | 1.3 | 1.9 | 2.0 | 2.0 | 2.3 | 1.5 | 1.5 | 1.4 | 1.3 | 1.1 | 1.0 | 0.7 | 0.9 | 1.0 | 0.8 | 0.9 | 0.6 | 0.7 | +0.1 |
| Non-MSA | 0.8 | 1.4 | 1.4 | 1.5 | 1.4 | 1.5 | 1.5 | 1.5 | 2.0 | 2.5 | 2.4 | 2.1 | 2.6 | 2.1 | 1.5 | 1.4 | 1.3 | 1.1 | 0.7 | 1.1 | 1.1 | 0.7 | 0.8 | 1.2 | 1.0 | -0.2 |
| Parental Education ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 0.7 | 0.9 | 1.5 | 1.8 | 1.2 | 1.7 | 1.7 | 1.3 | 1.2 | 2.3 | 1.6 | 1.6 | 1.9 | 1.5 | 1.8 | 1.4 | 1.0 | 1.5 | 1.0 | 1.5 | 0.5 | 1.1 | 1.0 | 0.6 | 0.4 | -0.2 s |
| 2.5-3.0 | 1.3 | 1.1 | 1.0 | 0.9 | 1.1 | 0.7 | 1.1 | 1.1 | 1.7 | 2.2 | 2.1 | 2.0 | 1.9 | 1.8 | 1.2 | 1.5 | 1.4 | 1.0 | 0.9 | 1.0 | 0.9 | 0.9 | 0.9 | 0.6 | 0.6 | 0.0 |
| 3.5-4.0 | 1.0 | 1.2 | 1.1 | 0.8 | 1.6 | 1.2 | 1.4 | 1.7 | 2.0 | 2.0 | 2.3 | 2.8 | 1.9 | 1.7 | 1.0 | 1.3 | 1.0 | 0.9 | 0.7 | 0.9 | 0.8 | 0.7 | 1.2 | 1.0 | 0.9 | -0.1 s |
| 4.5-5.0 | 0.9 | 1.0 | 0.8 | 1.4 | 1.1 | 1.2 | 1.0 | 0.9 | 1.5 | 2.4 | 2.0 | 2.0 | 1.6 | 1.5 | 1.5 | 0.9 | 1.1 | 0.8 | 0.7 | 0.7 | 1.1 | 0.9 | 0.5 | 0.7 | 0.9 | +0.2 |
| 5.5-6.0 (High) | 1.2 | 1.4 | 1.1 | 1.1 | 1.0 | 1.1 | 1.1 | 1.1 | 2.4 | 2.2 | 2.1 | 3.0 | 1.3 | 1.2 | 1.3 | 1.4 | 0.9 | 1.0 | 0.9 | 1.2 | 1.0 | 0.7 | 0.7 | 0.8 | 0.5 | -0.3 |
| Race/Ethnicity (2-year average) ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | 1.0 | 1.0 | 1.0 | 1.2 | 1.3 | 1.3 | 1.3 | 1.5 | 2.1 | 2.3 | 2.4 | 2.3 | 1.8 | 1.6 | 1.3 | 1.2 | 1.0 | 0.8 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | -0.1 |
| African American | - | 0.7 | 0.8 | 0.8 | 0.7 | 0.7 | 0.5 | 0.5 | 0.7 | 1.2 | 1.6 | 1.2 | 0.8 | 0.7 | 0.9 | 1.1 | 0.9 | 0.8 | 0.7 | 1.0 | 1.3 | 1.0 | 0.9 | 1.0 | 1.0 | 0.0 |
| Hispanic | - | 1.2 | 1.4 | 1.3 | 0.9 | 1.1 | 1.2 | 1.2 | 1.5 | 1.8 | 2.1 | 2.1 | 1.8 | 1.6 | 1.3 | 1.0 | 0.7 | 1.1 | 1.3 | 0.8 | 0.6 | 0.8 | 0.9 | 0.5 | 0.6 | +0.1 |

Source. The Monitoring the Future study, the University of Michigan.
 See Table S 2 for the number of subgroup cases. See appendix B for definition of variables in table. In 2006 the question text was changed slightly in half of the questionnaire forms. An examination of the data did not show any effect from the wording change. In 2007 the remaining forms were changed in a like manner. In 2008 the question text was changed slightly in half of the questionnaire forms. An examination of the data did not show any effect from the wording change. In 2009 the remaining forms were changed in a like manner.
Only drug use not under a doctor's orders is included here.
${ }^{\mathrm{P}}$ Parental education is an average score of mother's education and father's education. See appendix $B$ for details.
${ }^{\text {c }}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

## TABLE 139

## STEROIDS: ${ }^{\text {a }}$ Trends in Annual Prevalence of Use by Subgroups in Grade 12

|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2014- |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1975- \\ 1988 \end{gathered}$ | $\underline{1989}$ | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | $\underline{2005}$ | 2006 | 2007 | $\underline{2008}$ | 2009 | $\underline{2010}$ | 2011 | $\underline{2012}$ | 2013 | $\underline{2014}$ | 2015 | 2015 <br> change |
| Approximate weighted $N=$ | - | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |  |
| Total | - | 1.9 | 1.7 | 1.4 | 1.1 | 1.2 | 1.3 | 1.5 | 1.4 | 1.4 | 1.7 | 1.8 | 1.7 | 2.4 | 2.5 | 2.1 | 2.5 | 1.5 | 1.8 | 1.4 | 1.5 | 1.5 | 1.5 | 1.2 | 1.3 | 1.5 | 1.5 | 1.7 | +0.3 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | - | 2.8 | 2.6 | 2.4 | 2.1 | 2.5 | 2.1 | 2.4 | 2.2 | 2.5 | 2.8 | 3.1 | 2.5 | 3.8 | 3.8 | 3.2 | 3.3 | 2.6 | 2.7 | 2.3 | 2.5 | 2.5 | 2.5 | 1.8 | 1.7 | 2.2 | 2.0 | 2.5 | +0.5 |
| Female | - | 0.9 | 0.3 | 0.2 | 0.1 | 0.1 | 0.5 | 0.6 | 0.4 | 0.5 | 0.3 | 0.6 | 0.9 | 1.1 | 1.3 | 1.1 | 1.7 | 0.4 | 0.7 | 0.6 | 0.4 | 0.4 | 0.3 | 0.5 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 |
| College Plans |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 2.3 | 2.2 | 2.1 | 2.1 | 2.0 | 1.9 | 2.0 | 2.3 | 2.3 | 2.1 | 3.6 | 2.0 | 4.6 | 4.1 | 2.6 | 2.8 | 2.1 | 2.7 | 2.1 | 3.1 | 2.9 | 3.3 | 1.6 | 1.4 | 2.7 | 1.8 | 1.8 | 0.0 |
| Complete 4 years | - | 1.6 | 1.3 | 1.2 | 0.8 | 0.9 | 1.1 | 1.2 | 1.1 | 1.2 | 1.4 | 1.3 | 1.6 | 1.8 | 2.0 | 2.0 | 2.4 | 1.2 | 1.5 | 1.3 | 1.1 | 1.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.3 | 1.5 | +0.3 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | - | 2.0 | 1.3 | 1.2 | 0.6 | 1.5 | 1.5 | 1.6 | 1.3 | 2.1 | 0.9 | 1.3 | 1.9 | 4.5 | 2.1 | 3.0 | 3.8 | 1.6 | 2.0 | 1.6 | 2.2 | 1.3 | 1.7 | 1.2 | 1.6 | 1.0 | 2.1 | 1.1 | $-1.0$ |
| Midwest | - | 1.5 | 1.3 | 1.4 | 1.4 | 0.8 | 2.2 | 1.5 | 2.1 | 2.1 | 2.3 | 1.6 | 2.3 | 1.7 | 2.8 | 1.8 | 2.4 | 1.6 | 1.5 | 1.3 | 1.7 | 1.4 | 1.6 | 0.6 | 0.9 | 1.6 | 0.9 | 1.6 | +0.7 |
| South | - | 2.1 | 2.2 | 1.7 | 0.6 | 1.6 | 1.0 | 1.7 | 1.3 | 0.5 | 1.6 | 2.6 | 1.5 | 2.1 | 2.5 | 1.8 | 2.2 | 1.6 | 2.0 | 2.0 | 1.4 | 1.7 | 1.5 | 1.5 | 1.6 | 1.9 | 1.4 | 1.9 | +0.4 |
| West | - | 1.9 | 1.7 | 1.0 | 2.3 | 1.1 | 0.8 | 1.0 | 0.3 | 1.6 | 1.7 | 1.2 | 1.1 | 2.1 | 2.4 | 2.2 | 2.0 | 1.0 | 1.5 | 0.5 | 0.9 | 1.4 | 1.1 | 1.5 | 1.0 | 0.9 | 1.5 | 2.0 | +0.5 |
| Population Density |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | - | 1.6 | 1.3 | 1.1 | 1.0 | 0.7 | 1.1 | 1.4 | 1.3 | 0.8 | 2.1 | 1.3 | 1.7 | 1.9 | 2.0 | 2.1 | 2.6 | 1.4 | 1.6 | 1.0 | 0.9 | 1.3 | 1.2 | 1.0 | 1.4 | 1.1 | 0.8 | 1.8 | +0.9 |
| Other MSA | - | 2.3 | 1.5 | 1.4 | 1.4 | 0.9 | 1.5 | 1.3 | 1.3 | 1.7 | 1.5 | 2.0 | 2.0 | 2.9 | 3.0 | 2.1 | 2.9 | 1.4 | 1.6 | 1.5 | 1.4 | 1.7 | 1.5 | 1.4 | 1.2 | 1.1 | 1.9 | 1.9 | -0.1 |
| Non-MSA | - | 1.1 | 2.4 | 1.6 | 0.8 | 2.2 | 1.3 | 2.1 | 1.5 | 1.6 | 1.6 | 1.9 | 1.2 | 2.0 | 2.1 | 2.3 | 1.8 | 1.7 | 2.2 | 1.9 | 2.4 | 1.1 | 1.6 | 1.2 | 1.0 | 2.8 | 1.1 | 1.2 | +0.1 |
| Parental Education ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | - | 0.6 | 1.1 | 2.0 | 2.1 | 1.1 | 2.8 | 1.1 | 1.5 | 3.4 | 3.0 | 1.5 | 1.3 | 2.1 | 3.6 | 2.9 | 4.9 | 2.1 | 2.8 | 3.0 | 2.1 | 1.7 | 1.6 | 2.2 | 1.5 | 3.3 | 1.9 | 1.1 | -0.8 |
| 2.5-3.0 | - | 2.1 | 2.0 | 0.6 | 0.9 | 1.3 | 1.7 | 1.3 | 1.9 | 1.4 | 1.4 | 0.8 | 1.6 | 3.2 | 3.0 | 1.3 | 2.9 | 1.3 | 1.8 | 1.6 | 1.6 | 1.8 | 2.2 | 1.3 | 1.0 | 1.5 | 1.4 | 1.1 | -0.3 |
| 3.5-4.0 | - | 2.6 | 2.3 | 1.6 | 1.3 | 1.5 | 1.1 | 1.1 | 1.3 | 1.1 | 1.1 | 2.5 | 1.9 | 1.9 | 2.8 | 2.7 | 2.5 | 1.7 | 1.7 | 1.1 | 1.3 | 1.6 | 1.6 | 1.5 | 1.1 | 0.8 | 1.1 | 2.1 | +1.0 |
| 4.5-5.0 | - | 1.3 | 1.1 | 1.6 | 0.9 | 1.3 | 0.6 | 2.0 | 1.1 | 1.2 | 1.9 | 2.2 | 1.4 | 1.9 | 2.3 | 2.3 | 1.8 | 1.3 | 1.3 | 1.1 | 1.4 | 1.3 | 0.7 | 0.6 | 1.0 | 1.7 | 1.2 | 1.9 | +0.7 s |
| 5.5-6.0 (High) | - | 2.1 | 1.0 | 0.5 | 0.8 | 0.8 | 1.2 | 1.4 | 1.1 | 1.3 | 1.5 | 1.1 | 2.4 | 2.2 | 1.0 | 1.4 | 2.4 | 1.2 | 1.5 | 1.5 | 1.5 | 0.9 | 1.4 | 0.8 | 1.8 | 0.5 | 1.4 | 1.9 | +0.5 |
| Race/Ethnicity (2-year average) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 1.6 | 1.3 | 1.3 | 1.2 | 1.1 | 1.4 | 1.3 | 1.2 | 1.5 | 1.7 | 1.8 | 2.1 | 2.5 | 2.4 | 2.4 | 2.1 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.3 | 1.2 | 1.3 | 1.1 | 1.3 | +0.2 |
| African American | - | - | 1.8 | 1.2 | 0.5 | 1.1 | 1.8 | 1.2 | 1.4 | 1.5 | 0.9 | 0.7 | 1.0 | 1.2 | 1.0 | 1.1 | 1.3 | 1.6 | 1.7 | 1.6 | 1.4 | 1.5 | 1.7 | 1.8 | 1.6 | 1.4 | 2.7 | 2.2 | -0.5 |
| Hispanic | - | - | 2.3 | 3.3 | 1.8 | 0.9 | 1.7 | 1.3 | 0.6 | 1.6 | 2.4 | 2.9 | 2.4 | 2.1 | 2.2 | 1.8 | 2.4 | 2.0 | 2.3 | 2.3 | 1.3 | 1.0 | 1.3 | 1.4 | 1.0 | 1.1 | 1.4 | 1.3 | -0.1 |

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

 beginning in 2006; $N$ is three sixths of $N$ indicated in Table S3. In 2006 there were no changes in the two forms containing the original version of the question text. A slightly altered version of the question was added to a third form. An examination of the data did not show any effect from the
 changed in a like manner
Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.
${ }^{\text {a }}$ Only drug use not under a doctor's orders is included here.
${ }^{\text {b }}$ Parental education is an average score of mother's education and father's education. See appendix B for details.
${ }^{\circ}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

## TABLE S1

## Approximate Weighted $N$ s by Subgroups in Grade 8

Total

## Gender

Male
Female
College Plans
None or under 4 years
Complete 4 years
Region
Northeast
Midwest
South
West
Population Density
Large MSA
Other MSA
Non-MSA
Parental Education
1.0-2.0 (Low)
2.5-3.0
3.5-4.0
4.5-5.0
5.5-6.0 (High)

Race/Ethnicity (2-year average) ${ }^{\text {a }}$
White
African American
$\underline{1991} \underline{1992} \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015}$

$\begin{array}{llllllllllllllllllllllllllll}8,600 & 8,800 & 8,600 & 8,300 & 8,100 & 8,400 & 8,600 & 8,600 & 7,800 & 7,900 & 7,500 & 7,000 & 7,600 & 8,100 & 8,000 & 7,800 & 7,800 & 7,600 & 7,100 & 7,100 & 7,600 & 7,200 & 7,000 & 6,800 & 6,700\end{array}$

$\begin{array}{lllllllllllllllllllllllll}2,300 & 2,400 & 2,100 & 2,000 & 1,900 & 2,200 & 1,900 & 1,800 & 1,700 & 1,600 & 1,600 & 1,300 & 1,600 & 1,600 & 1,600 & 1,500 & 1,300 & 1,200 & 1,100 & 1,200 & 1,100 & 980 & 900 & 1,000 & 1,000\end{array}$

$\begin{array}{llllllllllllllllllllllllllll}3,000 & 3,700 & 3,900 & 3,400 & 3,100 & 3,200 & 3,400 & 3,300 & 3,000 & 2,800 & 2,900 & 2,800 & 3,200 & 3,200 & 3,200 & 2,900 & 2,400 & 2,600 & 2,500 & 2,500 & 2,900 & 2,800 & 2,500 & 2,400 & 2,200\end{array}$ $\begin{array}{lllllllllllllllllllllllllllllll}5,300 & 5,300 & 4,700 & 4,200 & 4,300 & 4,600 & 4,100 & 4,300 & 4,200 & 4,300 & 4,000 & 4,000 & 4,100 & 4,000 & 3,700 & 3,500 & 3,600 & 3,400 & 3,400 & 3,700 & 3,400 & 3,200 & 3,400 & 3,200 & 3,000\end{array}$ $\begin{array}{lllllllllllllllllllllllllllllllllll}6,300 & 6,200 & 6,400 & 6,300 & 6,600 & 6,300 & 7,200 & 6,600 & 6,100 & 6,300 & 5,900 & 5,400 & 6,300 & 6,300 & 6,300 & 6,300 & 6,400 & 5,600 & 5,700 & 5,600 & 6,200 & 5,800 & 5,400 & 5,600 & 5,900\end{array}$ $\begin{array}{llllllllllllllllllllllllllllllllll}2,900 & 3,400 & 3,300 & 3,400 & 3,500 & 3,700 & 3,900 & 3,900 & 3,400 & 3,300 & 3,400 & 2,900 & 2,900 & 3,500 & 3,600 & 3,800 & 3,700 & 4,100 & 3,400 & 3,500 & 3,500 & 3,300 & 3,300 & 3,400 & 3,300\end{array}$
$\begin{array}{lllllllllllllllllllllllll}4,500 & 5,700 & 5,500 & 4,400 & 5,200 & 5,200 & 5,000 & 4,800 & 4,800 & 4,900 & 4,700 & 4,500 & 4,900 & 5,000 & 5,400 & 5,400 & 5,000 & 5,100 & 4,500 & 4,600 & 5,400 & 5,200 & 4,800 & 4,700 & 4,300\end{array}$ $\begin{array}{lllllllllllllllllllllllllllllllll}8,400 & 8,300 & 8,800 & 8,300 & 7,800 & 8,400 & 9,000 & 8,800 & 7,900 & 7,900 & 7,500 & 6,900 & 7,700 & 7,900 & 7,400 & 7,300 & 7,800 & 7,500 & 7,300 & 7,500 & 7,300 & 6,900 & 6,800 & 6,800 & 7,100\end{array}$

$\begin{array}{lllllllllllllllllllllllllllllllllllll}1,400 & 1,700 & 1,700 & 1,600 & 1,500 & 1,500 & 1,500 & 1,300 & 1,300 & 1,300 & 1,300 & 1,100 & 1,100 & 1,200 & 1,400 & 1,400 & 1,400 & 1,300 & 1,200 & 1,400 & 1,300 & 1,300 & 1,400 & 1,300 & 1,400\end{array}$ $\begin{array}{lllllllllllllllllllllllllllllllll}4,400 & 4,600 & 4,500 & 4,100 & 3,900 & 4,300 & 4,000 & 3,900 & 3,800 & 3,700 & 3,400 & 3,200 & 3,400 & 3,400 & 3,400 & 3,300 & 3,100 & 2,800 & 2,700 & 2,800 & 2,700 & 2,500 & 2,400 & 2,400 & 2,500\end{array}$ $\begin{array}{lllllllllllllllllllllllllllllllll}4,100 & 4,300 & 4,300 & 4,200 & 4,000 & 4,100 & 4,300 & 4,100 & 3,800 & 3,900 & 4,000 & 3,500 & 3,700 & 4,000 & 3,700 & 3,800 & 3,700 & 3,500 & 3,300 & 3,400 & 3,500 & 3,000 & 2,900 & 3,100 & 2,900\end{array}$ $\begin{array}{llllllllllllllllllllllllllllll}4,100 & 4,100 & 4,100 & 3,900 & 3,900 & 3,900 & 4,500 & 4,500 & 4,000 & 3,900 & 3,900 & 3,800 & 4,200 & 4,300 & 4,200 & 4,000 & 3,900 & 4,100 & 3,900 & 3,800 & 4,100 & 3,900 & 3,900 & 3,600 & 3,500\end{array}$ $\begin{array}{lllllllllllllllllllllllllllllllllll}2,200 & 2,300 & 2,300 & 2,200 & 2,300 & 2,200 & 2,600 & 2,700 & 2,200 & 2,200 & 2,100 & 2,100 & 2,400 & 2,500 & 2,600 & 2,300 & 2,300 & 2,300 & 2,100 & 2,200 & 2,700 & 2,600 & 2,400 & 2,300 & 2,200\end{array}$ Hispanic

$\begin{array}{lllllllllllllllllllllllllll}- & 4,200 & 4,800 & 5,500 & 5,600 & 5,300 & 4,700 & 4,900 & 5,000 & 4,800 & 4,500 & 4,500 & 4,400 & 3,900 & 3,800 & 4,000 & 3,900 & 4,000 & 4,100 & 4,000 & 3,700 & 3,500 & 3,500 & 4,100 & 4,300\end{array}$

| - | 3,400 | 3,600 | 4,000 | 4,000 | 4,000 | 4,200 | 4,100 | 4,100 | 4,000 | 4,100 | 3,900 | 3,400 | 3,200 | 3,600 | 4,700 | 5,400 | 5,100 | 4,700 | 5,000 | 5,200 | 5,200 | 5,500 | 5,700 | 6,200 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | Source. The Monitoring the Future study, the University of Michigan.

Notes. ' - ' indicates data not available. See appendix B for definition of variables in table.
Caution: The $N$ s in this table are based on the entire sample at each grade level. Some drug use questions are asked only in some of the questionnaire forms rather than in all, in which case these $N$ s need to be adjusted appropriately. Look under Notes in each table to see if only a fraction of the sample was asked about that drug. If there is no such indication, the entire sample received the question.


## TABLE S2

## Approximate Weighted $N$ s by Subgroups in Grade 10

## Gende

Male
Female
College Plans
None or under 4 years
Complete 4 years
Region
Northeast
Midwest
South
West
Population Density
Large MSA
Other MSA
Non-MSA
Parental Education
1.0-2.0 (Low)
$2.5-3.0$
$3.5-4.0$
$4.5-5.0$
$5.5-6.0$ (High)
Race/Ethnicity (2-year average) ${ }^{\text {a }}$
White

## White

African American
Hispanic
$\underline{1991} \underline{1992} \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997} \quad \underline{1998} \quad \underline{1999} \quad \underline{2000} \quad \underline{2001} \quad \underline{2002} \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad \underline{2006} \quad \underline{2007} \quad \underline{2008} \quad \underline{2009} \quad \underline{2010} \quad \underline{2011} \quad \underline{2012} \quad \underline{2013} \quad \underline{2014} \quad \underline{2015}$

$\begin{array}{lllllllllllllllllllllllllllllllllll}7,200 & 7,000 & 7,300 & 7,700 & 8,300 & 7,500 & 7,400 & 7,100 & 6,300 & 6,800 & 6,600 & 6,900 & 7,500 & 7,900 & 7,900 & 7,900 & 7,800 & 7,000 & 7,600 & 7,200 & 7,200 & 7,200 & 6,100 & 6,200 & 7,600\end{array}$

$\begin{array}{llllllllllllllllllllllll}2,600 & 2,400 & 2,500 & 2,700 & 2,500 & 2,300 & 2,200 & 2,200 & 1,900 & 1,900 & 1,900 & 2,000 & 2,100 & 1,900 & 1,800 & 1,800 & 1,800 & 1,600 & 1,500 & 1,600 & 1,500 & 1,300 & 1,300 & 1,200 \\ 1,400\end{array}$

$\begin{array}{lllllllllllllllllllllllllll}2,700 & 3,000 & 2,900 & 3,100 & 3,300 & 3,100 & 3,300 & 3,100 & 3,000 & 2,800 & 2,700 & 2,600 & 3,400 & 3,600 & 3,500 & 3,200 & 3,200 & 2,800 & 3,400 & 3,000 & 2,600 & 2,900 & 2,400 & 2,500 & 3,100\end{array}$ $\begin{array}{llllllllllllllllllllllllllllll}3,700 & 3,800 & 4,800 & 4,700 & 4,400 & 3,900 & 3,900 & 3,600 & 3,100 & 3,700 & 4,100 & 3,700 & 4,000 & 4,600 & 4,500 & 4,300 & 3,900 & 3,600 & 3,700 & 3,700 & 3,800 & 3,800 & 3,200 & 3,000 & 3,600\end{array}$ $\begin{array}{llllllllllllllllllllllllllllll}4,900 & 5,000 & 4,900 & 5,200 & 6,100 & 5,600 & 5,500 & 5,200 & 4,700 & 5,000 & 5,000 & 5,100 & 4,900 & 4,900 & 5,000 & 5,300 & 5,100 & 4,800 & 5,200 & 5,200 & 5,100 & 4,900 & 4,100 & 4,400 & 5,500\end{array}$ $\begin{array}{llllllllllllllllllllllllllllllllll}3,500 & 3,000 & 2,700 & 2,800 & 3,200 & 3,000 & 2,800 & 3,100 & 2,800 & 2,800 & 2,200 & 2,900 & 3,500 & 3,300 & 3,200 & 3,400 & 3,900 & 3,900 & 3,600 & 3,300 & 3,400 & 3,400 & 3,200 & 3,100 & 3,400\end{array}$ $\begin{array}{lllllllllllllllllllllllllll}3,400 & 3,700 & 3,500 & 4,100 & 4,700 & 4,300 & 4,300 & 4,300 & 3,700 & 4,000 & 3,900 & 4,300 & 4,900 & 5,000 & 4,900 & 5,100 & 5,200 & 4,700 & 5,200 & 5,200 & 4,900 & 4,700 & 3,800 & 4,500 & 5,100\end{array}$ $\begin{array}{lllllllllllllllllllllllllllllllllll}7,400 & 7,300 & 7,600 & 7,500 & 8,200 & 7,500 & 7,300 & 7,000 & 6,700 & 6,700 & 6,700 & 6,800 & 7,800 & 7,800 & 7,600 & 7,900 & 7,600 & 7,300 & 7,300 & 6,600 & 6,600 & 7,100 & 6,400 & 6,000 & 7,600\end{array}$
 $\begin{array}{llllllllllllllllllllllllllllll}1,300 & 1,300 & 1,300 & 1,300 & 1,200 & 1,100 & 1,300 & 1,300 & 1,100 & 1,200 & 1,200 & 1,300 & 1,200 & 1,300 & 1,100 & 1,100 & 1,200 & 1,300 & 1,300 & 1,400 & 1,200 & 1,100 & 1,100 & 1,100 & 1,300\end{array}$ $\begin{array}{lllllllllllllllllllllllllllllllllll}3,900 & 3,900 & 4,100 & 4,100 & 4,100 & 3,600 & 3,700 & 3,700 & 3,200 & 3,200 & 3,200 & 3,300 & 3,500 & 3,400 & 3,200 & 3,200 & 3,300 & 3,000 & 3,000 & 3,000 & 3,000 & 2,600 & 2,400 & 2,300 & 2,400\end{array}$ $\begin{array}{lllllllllllllllllllllllllllll}3,900 & 3,900 & 4,100 & 4,300 & 4,600 & 4,300 & 4,100 & 4,000 & 3,600 & 3,700 & 3,700 & 3,700 & 4,200 & 4,200 & 4,100 & 4,300 & 4,400 & 3,800 & 4,000 & 3,800 & 3,900 & 3,800 & 3,100 & 3,100 & 3,600\end{array}$ $\begin{array}{lllllllllllllllllllllllllllllllll}3,500 & 3,400 & 3,500 & 3,700 & 4,000 & 3,900 & 3,700 & 3,500 & 3,300 & 3,500 & 3,400 & 3,500 & 3,900 & 4,300 & 4,400 & 4,500 & 4,300 & 4,000 & 4,300 & 3,900 & 3,800 & 4,100 & 3,500 & 3,600 & 4,300\end{array}$ $\begin{array}{lllllllllllllllllllllllllllllll}1,800 & 1,700 & 1,700 & 1,800 & 2,300 & 1,900 & 1,900 & 1,800 & 1,700 & 1,900 & 1,800 & 1,700 & 2,100 & 2,400 & 2,400 & 2,300 & 2,100 & 2,000 & 2,400 & 2,200 & 2,000 & 2,500 & 2,000 & 2,100 & 2,800\end{array}$
 $\begin{array}{lllllllllllllllllllllllllllll}- & 3,900 & 3,600 & 3,300 & 3,300 & 3,100 & 3,200 & 3,600 & 3,600 & 3,100 & 2,800 & 3,400 & 4,600 & 4,600 & 4,300 & 3,900 & 3,400 & 3,600 & 3,600 & 3,400 & 3,200 & 3,100 & 2,900 & 2,900 & 3,000\end{array}$ Source. The Monitoring the Future study, the University of Michigan.

Notes. ' - ' indicates data not available. See appendix B for definition of variables in table.
Caution: The $N$ s in this table are based on the entire sample at each grade level. Some drug use questions are asked only in some of the questionnaire forms rather than in all, in which case these $N$ s need to be adjusted appropriately. Look under Notes in each table to see if only a fraction of the sample was asked about that drug. If there is no such indication, the entire sample received the question.


## TABLE S3

Approximate Weighted $N$ s by Subgroups in Grade 12

|  | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | $\underline{1985}$ | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | $\underline{1993}$ | 1994 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 9,400 | 15,400 | 17,100 | 17,800 | 15,500 | 15,900 | 17,500 | 17,700 | 16,300 | 15,900 | 16,000 | 15,200 | 16,300 | 16,300 | 16,700 | 15,200 | 15,000 | 15,800 | 16,300 | 15,400 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 4,300 | 6,900 | 7,100 | 8,500 | 7,500 | 7,500 | 8,400 | 8,500 | 7,800 | 7,600 | 7,600 | 7,100 | 7,700 | 7,700 | 8,000 | 7,700 | 7,400 | 7,400 | 7,500 | 6,900 |
| Female | 5,200 | 7,000 | 7,600 | 9,000 | 8,000 | 7,800 | 8,600 | 8,600 | 8,000 | 7,800 | 8,000 | 7,700 | 8,200 | 8,200 | 8,300 | 7,100 | 7,200 | 7,900 | 8,200 | 8,000 |
| College Plans |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | - | 6,500 | 6,700 | 8,100 | 6,800 | 6,300 | 6,700 | 7,200 | 6,300 | 5,900 | 5,600 | 5,100 | 5,000 | 4,700 | 4,800 | 4,200 | 4,000 | 3,700 | 3,700 | 3,400 |
| Complete 4 years | - | 6,800 | 7,200 | 8,600 | 8,000 | 8,500 | 9,700 | 9,200 | 8,800 | 8,900 | 9,300 | 9,100 | 10,300 | 10,600 | 11,000 | 10,100 | 10,300 | 11,200 | 11,600 | 11,100 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 2,200 | 3,400 | 3,700 | 4,400 | 3,800 | 3,600 | 4,100 | 4,600 | 3,900 | 3,200 | 3,700 | 3,600 | 3,500 | 3,200 | 3,200 | 3,300 | 2,800 | 2,800 | 2,700 | 2,700 |
| Midwest | 2,900 | 4,500 | 4,600 | 5,200 | 4,800 | 4,700 | 5,300 | 5,200 | 4,600 | 4,500 | 4,400 | 4,300 | 4,400 | 4,300 | 4,500 | 4,200 | 4,000 | 4,400 | 4,600 | 4,000 |
| South | 3,000 | 4,300 | 4,600 | 6,000 | 4,800 | 4,800 | 5,300 | 5,300 | 5,200 | 5,300 | 4,900 | 4,700 | 5,200 | 5,600 | 6,100 | 5,000 | 5,100 | 5,600 | 5,800 | 5,700 |
| West | 1,400 | 2,200 | 2,200 | 2,500 | 2,600 | 2,700 | 2,800 | 2,600 | 2,600 | 2,900 | 3,000 | 2,600 | 3,200 | 3,200 | 2,900 | 2,700 | 3,100 | 3,000 | 3,200 | 3,000 |
| Population Density |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 2,100 | 3,700 | 4,000 | 4,600 | 4,000 | 3,900 | 4,500 | 4,800 | 4,200 | 4,100 | 4,200 | 3,700 | 4,200 | 4,400 | 4,000 | 3,800 | 3,600 | 3,600 | 3,700 | 4,300 |
| Other MSA | 4,000 | 5,700 | 6,200 | 8,000 | 6,800 | 6,700 | 7,100 | 7,300 | 6,800 | 6,900 | 6,900 | 7,000 | 8,000 | 7,700 | 8,800 | 7,700 | 7,200 | 8,200 | 7,800 | 7,100 |
| Non-MSA | 3,400 | 5,000 | 4,900 | 5,500 | 5,200 | 5,200 | 5,900 | 5,600 | 5,300 | 4,900 | 4,900 | 4,500 | 4,100 | 4,200 | 3,900 | 3,700 | 4,200 | 4,000 | 4,800 | 4,000 |
| Parental Education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 1,700 | 2,200 | 2,600 | 3,100 | 2,500 | 2,300 | 2,400 | 2,700 | 2,200 | 1,900 | 1,800 | 1,800 | 1,700 | 1,600 | 1,700 | 1,600 | 1,500 | 1,400 | 1,600 | 1,400 |
| 2.5-3.0 | 3,000 | 4,300 | 5,400 | 6,200 | 5,600 | 5,300 | 5,800 | 5,900 | 5,500 | 5,100 | 5,100 | 4,600 | 4,500 | 4,500 | 4,600 | 4,300 | 4,100 | 4,100 | 4,300 | 3,700 |
| 3.5-4.0 | 1,600 | 2,500 | 3,200 | 4,000 | 3,600 | 3,600 | 4,200 | 4,200 | 3,900 | 4,000 | 4,000 | 3,800 | 4,300 | 4,400 | 4,500 | 4,100 | 4,200 | 4,600 | 4,500 | 4,300 |
| 4.5-5.0 | 1,100 | 1,600 | 2,200 | 2,800 | 2,600 | 2,700 | 3,100 | 2,900 | 2,800 | 2,900 | 3,000 | 2,900 | 3,400 | 3,500 | 3,500 | 3,100 | 3,100 | 3,400 | 3,600 | 3,500 |
| 5.5-6.0 (High) | 440 | 710 | 1,100 | 1,200 | 1,200 | 1,300 | 1,500 | 1,300 | 1,200 | 1,400 | 1,500 | 1,500 | 1,800 | 1,900 | 1,700 | 1,600 | 1,500 | 1,700 | 1,700 | 1,800 |
| Race/Ethnicity (2-year average) ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | - | - | 23,400 | 26,500 | 27,500 | 25,600 | 26,300 | 27,300 | 26,200 | 24,700 | 24,200 | 23,600 | 23,800 | 24,200 | 24,000 | 23,400 | 21,900 | 21,500 | 22,000 | 21,800 |
| African American | - | - | 3,300 | 3,700 | 3,500 | 3,500 | 4,000 | 4,000 | 3,900 | 4,000 | 4,000 | 3,500 | 3,200 | 3,600 | 3,900 | 3,500 | 3,200 | 3,900 | 4,200 | 3,600 |
| Hispanic | - | - | 890 | 1,000 | 940 | 740 | 930 | 1,300 | 1,300 | 1,200 | 1,200 | 1,500 | 1,900 | 2,100 | 2,400 | 2,500 | 2,400 | 2,600 | 2,900 | 3,100 |

## TABLE S3 (cont.)

## Approximate Weighted $N$ s by Subgroups in Grade 12

|  |  | $\underline{1996}$ | 1997 | 1998 | 1999 | 2000 | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | 201 | 201 | 201 | $\underline{20}$ | 20 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 15,400 | 14,300 | 15,400 | 15,200 | 13,600 | 12,800 | 12,800 | 12,900 | 14,600 | 14,600 | 14,700 | 14,200 | 14,500 | 14,000 | 13,700 | 14,400 | 14,100 | 13,700 | 12,600 | 12,400 | 12,900 |
| Gender: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 7,200 | 6,700 | 7,100 | 7,100 | 6,300 | 5,800 | 5,800 | 5,800 | 6,600 | 6,800 | 6,800 | 6,600 | 6,500 | 6,400 | 6,300 | 6,700 | 6,800 | 6,600 | 5,900 | 5,700 | 5,700 |
| Female | 7,800 | 7,100 | 7,700 | 7,500 | 6,700 | 6,400 | 6,500 | 6,600 | 7,400 | 7,200 | 7,300 | 7,100 | 7,400 | 6,900 | 6,700 | 7,100 | 6,700 | 6,600 | 6,100 | 6,100 | 6,300 |
| College Plans |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| None or under 4 years | 3,300 | 2,600 | 3,200 | 3,100 | 2,800 | 2,600 | 2,500 | 2,400 | 2,800 | 2,800 | 2,600 | 2,500 | 2,400 | 2,300 | 2,100 | 2,100 | 2,100 | 2,100 | 2,200 | 2,000 | 1,900 |
| Complete 4 years | 11,200 | 10,800 | 11,000 | 11,100 | 10,200 | 9,300 | 9,600 | 9,700 | 11,100 | 11,000 | 11,300 | 11,000 | 11,300 | 10,800 | 10,800 | 11,300 | 11,200 | 10,900 | 9,700 | 9,600 | 10,200 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 2,800 | 3,000 | 3,300 | 2,800 | 2,500 | 2,500 | 2,400 | 2,500 | 3,100 | 3,100 | 2,900 | 2,600 | 2,700 | 2,400 | 2,600 | 2,700 | 2,400 | 2,300 | 2,200 | 2,400 | 2,200 |
| Midwest | 4,300 | 3,800 | 4,100 | 3,800 | 3,600 | 3,100 | 3,700 | 3,300 | 3,600 | 3,800 | 3,600 | 3,500 | 3,200 | 3,500 | 3,500 | 3,200 | 3,400 | 3,600 | 3,100 | 2,500 | 2,700 |
| South | 5,400 | 5,100 | 5,300 | 5,700 | 4,900 | 4,500 | 4,100 | 4,300 | 4,900 | 5,000 | 5,200 | 5,200 | 5,500 | 5,000 | 4,800 | 5,400 | 5,100 | 4,400 | 4,300 | 4,700 | 5,100 |
| West | 2,900 | 2,400 | 2,700 | 2,900 | 2,600 | 2,700 | 2,600 | 2,800 | 3,000 | 2,700 | 3,000 | 2,900 | 3,100 | 3,100 | 2,800 | 3,100 | 3,200 | 3,400 | 3,000 | 2,800 | 2,900 |
| Population Density |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Large MSA | 4,400 | 3,400 | 4,100 | 4,300 | 3,800 | 3,800 | 3,800 | 4,000 | 4,600 | 4,200 | 4,300 | 4,700 | 4,700 | 3,700 | 3,900 | 4,200 | 4,300 | 4,300 | 3,800 | 3,500 | 4,100 |
| Other MSA | 7,000 | 7,000 | 7,500 | 7,500 | 6,200 | 5,800 | 5,800 | 5,900 | 6,500 | 6,800 | 7,000 | 6,200 | 6,600 | 7,100 | 6,900 | 7,300 | 6,900 | 6,700 | 6,200 | 6,300 | 6,300 |
| Non-MSA | 4,000 | 3,900 | 3,800 | 3,400 | 3,600 | 3,200 | 3,200 | 3,000 | 3,500 | 3,600 | 3,400 | 3,300 | 3,200 | 3,200 | 2,900 | 2,900 | 2,900 | 2,700 | 2,600 | 2,600 | 2,500 |
| Parental Education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0-2.0 (Low) | 1,200 | 1,100 | 1,300 | 1,200 | 960 | 860 | 1,000 | 980 | 1,200 | 1,000 | 1,100 | 1,100 | 1,100 | 1,200 | 1,400 | 1,400 | 1,200 | 1,200 | 1,200 | 1,200 | 1,300 |
| 2.5-3.0 | 3,700 | 3,300 | 3,600 | 3,700 | 3,200 | 3,000 | 2,900 | 2,800 | 3,400 | 3,400 | 3,200 | 3,100 | 3,200 | 3,000 | 2,900 | 3,000 | 2,800 | 2,800 | 2,500 | 2,400 | 2,500 |
| 3.5-4.0 | 4,400 | 3,800 | 4,100 | 4,300 | 3,900 | 3,600 | 3,600 | 3,800 | 4,200 | 4,000 | 3,900 | 4,000 | 4,200 | 3,900 | 3,700 | 4,000 | 3,900 | 3,700 | 3,500 | 3,400 | 3,200 |
| 4.5-5.0 | 3,700 | 3,500 | 3,500 | 3,300 | 3,200 | 3,100 | 3,200 | 3,100 | 3,400 | 3,600 | 3,600 | 3,600 | 3,600 | 3,500 | 3,300 | 3,500 | 3,600 | 3,600 | 3,300 | 3,200 | 3,400 |
| 5.5-6.0 (High) | 1,800 | 2,100 | 2,100 | 2,000 | 1,800 | 1,600 | 1,600 | 1,500 | 1,800 | 2,000 | 2,100 | 1,900 | 1,800 | 1,700 | 1,600 | 1,600 | 1,900 | 1,800 | 1,500 | 1,300 | 1,600 |
| Race/Ethnicity (2-year average) ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 21,600 | 20,700 | 19,800 | 20,200 | 19,500 | 17,700 | 16,200 | 16,300 | 17,800 | 19,600 | 19,600 | 18,600 | 18,200 | 17,300 | 16,300 | 16,400 | 16,500 | 16,300 | 15,600 | 14,100 | 13,400 |
| African American | 3,300 | 3,200 | 3,600 | 3,700 | 3,400 | 3,300 | 3,100 | 2,900 | 3,000 | 3,200 | 3,000 | 3,000 | 3,200 | 3,500 | 3,100 | 3,000 | 3,400 | 3,200 | 2,700 | 2,800 | 3,300 |
| Hispanic | 2,700 | 2,600 | 2,800 | 3,000 | 2,500 | 2,200 | 2,600 | 3,100 | 3,100 | 2,800 | 2,900 | 3,500 | 3,700 | 4,000 | 4,400 | 4,500 | 4,000 | 3,700 | 3,900 | 4,000 | 4,200 |
| Source. The Monitoring the Future study, the University of Michigan. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes. ' - ' indicates data not available. See appendix B for definition of variables in table. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Caution: The $N s$ in this table are based on the entire sample at each grade level. Some drug use questions are asked only in some of the questionnaire forms rather than in all, in which case these $N$ s need to be adjusted appropriately. Look under Notes in each table to see if only a fraction of the sample was asked about that drug. If there is no such indication, the entire sample received the question. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{\mathrm{a}} \mathrm{N}$ s for each racial subgroup race/ethnicity is defined. | combinatio | on of the | specified | year and th | he previou | s year. D | ata have b | been comb | ined to in | crease sub | bgroup sa | mple size | s and thu | provide | more stab | le estimat | tes. See af | ppendix B | or detail | on how |  |

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## Monitoring the Future

www.monitoringthefuture.org/pubs.html\#papers


[^0]:    ${ }^{1}$ Johnston, L. D., O'Malley, P. M., Miech, R. A., Bachman, J. G., \& Schulenberg, J. E. (2016). Monitoring the Future national survey results on drug use, 1975-2015: Overview, key findings on adolescent drug use. Ann Arbor: Institute for Social Research, The University of Michigan, 104 pp.
    ${ }^{2}$ Miech, R. A., Johnston, L. D., O'Malley, P. M., Bachman, J. G., \& Schulenberg, J. E. (2016, forthcoming). Monitoring the Future national survey results on drug use, 1975-2015: Volume I, Secondary school students. Ann Arbor: Institute for Social Research, The University of Michigan.
    ${ }^{3}$ Johnston, L. D., O'Malley, P. M., Bachman, J. G., Schulenberg, J. E., \& Miech, R. A. (2015 and preceding). Monitoring the Future national survey results on drug use, 1975-2014: Volume I, Secondary school students (p. 90). Ann Arbor: Institute for Social Research, The University of Michigan, 599pp.

[^1]:    ${ }^{4}$ Miech, R. A., Johnston, L. D., O'Malley, P. M., Bachman, J. G., \& Schulenberg, J. E. (2016, forthcoming). Monitoring the Future national survey results on drug use, 1975-2015: Volume I, Secondary school students. Ann Arbor: Institute for Social Research, The University of Michigan.

[^2]:    ${ }^{5}$ Miech, R. A., Johnston, L. D., O'Malley, P. M., Bachman, J. G., \& Schulenberg, J. E. (2016, forthcoming). Monitoring the Future national survey results on drug use, 1975-2015: Volume I, Secondary school students. Ann Arbor: Institute for Social Research, The University of Michigan.

[^3]:    (Table continued on next page.)

[^4]:    (Table continued on next page.)

[^5]:    (Table continued on next page.)

[^6]:    Hispanic $-\frac{1}{\text { Source. The Monitoring the Future study, the University of Michigan. }}$
     rounding. See Table S 2 for the number of subgroup cases. See appendix B for definition of variables in table.

[^7]:    Source. The Monitoring the Future study, the University of Michigan.

[^8]:    Source. The Monitoring the Future study, the University of Michigan.

[^9]:    (Table continued on next page.)

[^10]:    Source. The Monitoring the Future study, the University of Michigan

[^11]:    (Table continued on next page.)

[^12]:    (Table continued on next page.)

[^13]:    (Table continued on next page.)

[^14]:    （Table continued on next page．）

[^15]:    Source. The Monitoring the Future study, the University of Michigan.
     See Table S 1 for the number of subgroup cases. See appendix B for definition of variables in table.
    ${ }^{2}$ Parental education is an average score of mother's education and father's education. See appendix $B$ for details,
    ${ }^{5}$ To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix $B$ for details on how race/ethnicity is defined.

[^16]:    (Table continued on next page.)

[^17]:    (Table continued on next page.)

[^18]:    (Table continued on next page.)

[^19]:    (Table continued on next page.)

[^20]:    (Table continued on next page.)

[^21]:    Source. The Monitoring the Future study, the University of Michigan
     rounding. See Table S 1 for the number of subgroup cases. See appendix B for definition of variables in table

