# MONITORING <br> the FUTURE <br> NATIONAL SURVEY RESULTS ON DRUG USE <br> 1975-2014 

# 2014 Volume 2 

## College Students \& Adults Ages 19-55

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# NATIONAL SURVEY RESULTS ON DRUG USE, 1975-2014 

## Volume 2

College Students and Adults Ages 19-55

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## ABBREVIATED CONTENTS*

Click on any item below (in blue) to go directly to that page.
Detailed Contents ..... iv
List of Tables ..... vii
List of Figures ..... X
Chapter 1 Introduction ..... 1
Chapter 2 Key Findings: An Overview and Integration across Five Populations ..... 6
Chapter 3 Study Design and Procedures ..... 62
Chapter 4 Prevalence of Drug Use in Early and Middle Adulthood ..... 81
Chapter 5 Trends in Drug Use in Early and Middle Adulthood ..... 134
Chapter 6 Attitudes and Beliefs about Drugs among Young Adults. ..... 229
Chapter 7 The Social Context ..... 285
Chapter 8 Prevalence of Drug Use among College Students and Noncollege Peers. ..... 356
Chapter 9 Trends in Drug Use among College Students and Noncollege Peers ..... 367

## DETAILED CONTENTS

Click on any item below (in blue) to go directly to that page.
Chapter 1 Introduction ..... 1
Surveys of Young Adults and Those Ages 35, 40, 45, 50, and 55 ..... 2
Surveys of College Students and Noncollege Peers .....  3
General Purposes of the Research ..... 3
Chapter 2 Key Findings: An Overview and Integration across Five Populations ..... 6
Trends in Drug Use-The Advent of Cohort Effects ..... 6
College-Noncollege Differences in Illicit Drug Use ..... 25
Male-Female Differences in Substance Use ..... 26
Trends in Alcohol Use ..... 27
College-Noncollege Differences in Alcohol Use ..... 27
Male-Female Differences in Alcohol Use ..... 28
Trends in Cigarette Smoking ..... 28
Age- and Cohort-Related Differences in Cigarette Smoking ..... 30
College-Noncollege Differences in Cigarette Smoking ..... 31
Male-Female Differences in Cigarette Smoking ..... 32
Racial/Ethnic Comparisons ..... 32
Drug Use in Eighth Grade ..... 34
Summary and Conclusions ..... 36
Chapter 3 Study Design and Procedures ..... 62
Research Design and Procedures for the Twelfth-Grade Surveys ..... 62
The Population under Study ..... 62
The Omission of Dropouts ..... 63
Sampling Procedures and Sample Weights ..... 63
Questionnaire Administration ..... 64
Questionnaire Format. ..... 64
Research Design and Procedures for the Eighth- and Tenth-Grade Surveys ..... 64
Mode of Administration ..... 65
Questionnaire Forms and Sample Proportions ..... 65
Research Design and Procedures for the Twelfth-Grade Follow-up Surveys ..... 66
Follow-Up Procedures ..... 66
Follow-Up Questionnaire Format ..... 67
Representativeness and Sample Accuracy ..... 67
School Participation ..... 67
Student Participation ..... 69

## DETAILED CONTENTS (continued)

Sampling Accuracy of the Estimates ..... 70
Panel Retention ..... 70
The Problem of Panel Attrition ..... 70
Response Rates ..... 71
The Impact of Panel Attrition on Research Results ..... 72
Effects on Relational Analyses ..... 74
Validity of Measures of Self-Reported Drug Use ..... 74
Consistency and Measurement of Trends ..... 76
Chapter 4 Prevalence of Drug Use in Early and Middle Adulthood. ..... 81
Replicability of Findings ..... 82
The Importance of Adjusted Lifetime Prevalence Estimates ..... 83
Prevalence of Drug Use across Age Groups ..... 84
Prevalence Comparisons for Subgroups of Young Adults ..... 92
Gender Differences ..... 93
Regional Differences ..... 94
Population Density Differences ..... 96
Chapter 5 Trends in Drug Use in Early and Middle Adulthood ..... 134
Recent Trends in Drug Use among Young Adults Ages 19-28 ..... 135
Longer-Term Trends in Early and Middle Adulthood ..... 136
Trends for Important Subgroups of Young Adults ..... 148
Gender Differences in Trends ..... 148
Regional Differences in Trends ..... 155
Population Density Differences in Trends ..... 161
Chapter 6 Attitudes and Beliefs about Drugs among Young Adults ..... 229
Perceived Harmfulness of Drugs ..... 229
Personal Disapproval of Drug Use ..... 236
Cohort Differences and Their Implications for Prevention and Theory ..... 239
Chapter 7 The Social Context ..... 285
Peer Norms among Young Adults (Ages 18-30) ..... 285
Perceptions of Close Friends’ Attitudes (Ages 18 to 30) ..... 286

## DETAILED CONTENTS (continued)

Trends in Peer Norms (Ages 18 to 30) ..... 287
Adults' Exposure to Drug Use through Friends and Others (Ages 18-55) ..... 290
Exposure to Drug Use (Ages 18-55) ..... 290
Trends in Exposure to Drug Use (Ages 18 to 55) ..... 292
Perceived Availability of Drugs among Adults (Ages 18-55) ..... 296
Perceived Availability ..... 296
Trends in Perceived Availability ..... 297
Chapter 8 Prevalence of Drug Use among College Students and Noncollege Peers ..... 356
Definition of College Students ..... 356
Prevalence of Drug Use among College Students versus Their Noncollege Peers ..... 357
Gender Differences in Prevalence of Use among College Students and Their Noncollege Peers ..... 359
Chapter 9 Trends in Drug Use among College Students and Noncollege Peers ..... 367
Trends in Prevalence, 1980-2014: College Students versus Those Not Enrolled in College ..... 369
Gender Differences in Trends among College Students ..... 378

## LIST OF TABLES

Click on any item below (in blue) to go directly to that page.
Table 2-1. Trends in Lifetime Prevalence of Use of Various Drugs for 8th, 10th, and 12th Graders, College Students, and Young Adults (Ages 19-28). ..... 41
Table 2-2. Trends in Annual Prevalence of Use of Various Drugs for 8th, 10th, and 12th Graders, College Students, and Young Adults (Ages 19-28) ..... 46
Table 2-3. Trends in 30-Day Prevalence of Use of Various Drugs for 8th, 10th, and 12th Graders, College Students, and Young Adults (Ages 19-28) ..... 52
Table 2-4. Trends in 30-Day Prevalence of Daily Use of Various Drugs for 8th, 10th, and 12th Graders, College Students, and Young Adults (Ages 19-28) ..... 57
Table 3-1. Sample Sizes and Response Rates ..... 77
Table 3-2. $\quad$ Substance Use among Ages 19-28, Based on 2013 Data from Monitoring the Future and the National Survey on Drug Use and Health ..... 78
Table 4-1. Prevalence of Use of Various Types of Drugs by Gender among Respondents of Modal Ages 19-30, 2014 ..... 98
Table 4-2. Lifetime Prevalence of Use of Various Types of Drugs by Subgroups among Respondents of Modal Ages 19-30, 2014 ..... 101
Table 4-3. Annual Prevalence of Use of Various Types of Drugs by Subgroups among Respondents of Modal Ages 19-30, 2014 ..... 104
Table 4-4. Thirty-Day Prevalence of Use of Various Types of Drugs by Subgroups among Respondents of Modal Ages 19-30, 2014 ..... 107
Table 4-5. Thirty-Day Prevalence of Daily Use of Various Types of Drugs by Subgroups among Respondents of Modal Ages 19-30, 2014 ..... 111
Table 5-1. Trends in Lifetime Prevalence of Various Types of Drugs among Respondents of Modal Ages 19-28 ..... 168
Table 5-2. Trends in Annual Prevalence of Various Types of Drugs among Respondents of Modal Ages 19-28 ..... 170
Table 5-3. Trends in 30-Day Prevalence of Various Types of Drugs among Respondents of Modal Ages 19-28 ..... 172

## LIST OF TABLES (continued)

Table 5-4. Trends in 30-Day Prevalence of Daily Use of Various Types of Drugs among Respondents of Modal Ages 19-28174
Table 5-5. Trends in Annual and 30-Day Prevalence of an Illicit Drug Use Index among Respondents of Modal Ages 19-28, Total and by Gender ..... 176
Table 6-1. Trends in Harmfulness as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30 ..... 241
Table 6-2. Trends in Proportions Disapproving of Drug Use among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30 ..... 247
Table 7-1. Trends in Proportions of Respondents Reporting Their Close Friends Disapproving of Drug Use among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30 ..... 302
Table 7-2. Trends in Friends’ Use of Drugs as Estimated by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55 ..... 304
Table 7-3. Trends in Exposure to Drug Use among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30 ..... 320
Table 7-4. Trends in Availability of Drugs as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55 ..... 326
Table 8-1. Lifetime Prevalence of Use for Various Types of Drugs, 2014: Full-Time College Students vs. Others among Respondents 1 to 4 Years beyond High School by Gender ..... 362
Table 8-2. Annual Prevalence of Use for Various Types of Drugs, 2014: Full-Time College Students vs. Others among Respondents 1 to 4 Years beyond High School by Gender ..... 363
Table 8-3. Thirty-Day Prevalence of Use for Various Types of Drugs, 2014: Full-Time College Students vs. Others among Respondents 1 to 4 Years beyond High School by Gender ..... 364
Table 8-4. Thirty-Day Prevalence of Daily Use for Various Types of Drugs, 2014: Full- Time College Students vs. Others among Respondents 1 to 4 Years beyond High School by Gender ..... 365
Table 9-1. Trends in Lifetime Prevalence of Various Types of Drugs among College Students 1 to 4 Years beyond High School ..... 382

## LIST OF TABLES (continued)

$\begin{array}{ll}\text { Table 9-2. } & \text { Trends in Annual Prevalence of Various Types of Drugs among College } \\ \text { Students } 1 \text { to } 4 \text { Years beyond High School ......................................................... } 384\end{array}$
Table 9-3. Trends in 30-Day Prevalence of Various Types of Drugs among College Students 1 to 4 Years beyond High School .386

Table 9-4. Trends in 30-Day Prevalence of Daily Use of Various Types of Drugs among College Students 1 to 4 Years beyond High School .388

Table 9-5. Trends in Lifetime, Annual, and 30-Day Prevalence of an Illicit Drug Use Index among College Students 1 to 4 Years beyond High School, by Gender. .390

## LIST OF FIGURES

Click on any item below (in blue) to go directly to that page.
Figure 2-1. Trends in Annual Prevalence of an Illicit Drug Use Index across 5 Populations ..... 61
Figure 3-1. $\quad$ Schools included in 1 Year's Data Collection: $8^{\text {th }}, 10^{\text {th }}$, and $12^{\text {th }}$ Grades ..... 79
Figure 3-2. School Participation Rates ..... 80
Figure 4-1. Any Illicit Drug: Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55 by Age Group, 2014 ..... 112
Figure 4-2. Any Illicit Drug other than Marijuana: Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55 by Age Group, 2014 ..... 113
Figure 4-3. Marijuana: Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55 by Age Group, 2014 ..... 114
Figure 4-4. Amphetamines: Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55 by Age Group, 2014 ..... 115
Figure 4-5. Methamphetamine: Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 30 by Age Group, 2014 ..... 116
Figure 4-6. Crystal Methamphetamine (Ice): Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 30 by Age Group, 2014 ..... 117
Figure 4-7. Cocaine: Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55 by Age Group, 2014 ..... 118
Figure 4-8. Crack Cocaine: Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55 by Age Group, 2014. ..... 119
Figure 4-9. Other Cocaine: Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55 by Age Group, 2014. ..... 120
Figure 4-10. Hallucinogens: Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55 by Age Group, 2014. ..... 121
Figure 4-11. LSD: Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 30 by Age Group, 2014 ..... 122

## LIST OF FIGURES (continued)

Figure 4-12. Hallucinogens other than LSD: Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 30 by
Age Group, 2014............................................................................................. 123

Figure 4-13. Inhalants: Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 30 by Age Group, 2014124

Figure 4-14. Sedatives (Barbiturates): Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55 by Age Group, 2014125

Figure 4-15. Narcotics other than Heroin: Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55 by Age Group, 2014126

Figure 4-16. Tranquilizers: Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55 by Age Group, 2014127

Figure 4-17. Ecstasy (MDMA): Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 30 by Age Group, 2014.128

Figure 4-18. Steroids: Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 30 by Age Group, 2014129

Figure 4-19. Heroin: Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55 by Age Group, 2014.130

Figure 4-20a. Alcohol: Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55 by Age Group, 2014131

Figure 4-20b. Alcohol: 2-Week Prevalence of 5 or More Drinks in a Row and 30-Day Prevalence of Daily Use among Respondents of Modal Ages 18 through 55 by Age Group, 2014132

Figure 4-21. Cigarettes: Annual, 30-Day, Daily, and Half-Pack-a-Day Prevalence among Respondents of Modal Ages 18 through 55 by Age Group, 2014 133

## LIST OF FIGURES (continued)

Figure 5-1. Any Illicit Drug: Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group ..... 177
Figure 5-2. Any Illicit Drug other than Marijuana: Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group ..... 179
Figure 5-3a. Marijuana: Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group ..... 181
Figure 5-3b. Marijuana: Trends in 30-Day Prevalence among Respondents of Modal Ages 18 through 55, by Age Group ..... 183
Figure 5-3c. Marijuana: Trends in 30-Day Prevalence of Daily Use among Respondents of Modal Ages 18 through 55, by Age Group ..... 185
Figure 5-4. Inhalants: Trends in Annual Prevalence among Respondents of Modal Ages 18 through 32, by Age Group ..... 187
Figure 5-5. Hallucinogens: Trends in Annual Prevalence among Respondents of Modal Ages 18 through 50, by Age Group ..... 189
Figure 5-6. LSD: Trends in Annual Prevalence among Respondents of Modal Ages 18 through 35, by Age Group ..... 191
Figure 5-7. Hallucinogens other than LSD: Trends in Annual Prevalence among Respondents of Modal Ages 18 through 35, by Age Group ..... 193
Figure 5-8. Ecstasy (MDMA): Trends in Annual Prevalence among Respondents of Modal Ages 18 through 32, by Age Group ..... 195
Figure 5-9. Cocaine: Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group ..... 197
Figure 5-10. Crack Cocaine: Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group ..... 199
Figure 5-11. Heroin: Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group ..... 201
Figure 5-12. Narcotics other than Heroin: Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group. ..... 203

## LIST OF FIGURES (continued)

Figure 5-13. Amphetamines: Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group ..... 205
Figure 5-14. Crystal Methamphetamine (Ice): Trends in Annual Prevalence among Respondents of Modal Ages 18 through 32, by Age Group ..... 207
Figure 5-15. Sedatives (Barbiturates): Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group ..... 209
Figure 5-16. Tranquilizers: Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group ..... 211
Figure 5-17. Steroids: Trends in Annual Prevalence among Respondents of Modal Ages 18 through 32, by Age Group ..... 213
Figure 5-18a. Alcohol: Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group ..... 215
Figure 5-18b. Alcohol: Trends in 30-Day Prevalence among Respondents of Modal Ages 18 through 55, by Age Group ..... 217
Figure 5-18c. Alcohol: Trends in 30-Day Prevalence of Daily Use among Respondents of Modal Ages 18 through 55, by Age Group. ..... 219
Figure 5-18d. Alcohol: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row among Respondents of Modal Ages 18 through 55, by Age Group ..... 221
Figure 5-19a. Cigarettes: Trends in 30-Day Prevalence among Respondents of Modal Ages 18 through 55, by Age Group ..... 223
Figure 5-19b. Cigarettes: Trends in 30-Day Prevalence of Daily Use among Respondents of Modal Ages 18 through 55, by Age Group. ..... 225
Figure 5-19c. Cigarettes: Trends in 30-Day Prevalence of Smoking a Half Packor More per Day among Respondents of Modal Ages 18 through 55,by Age Group227
Figure 6-1. Trends in Harmfulness of Marijuana Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; TryingOnce or Twice252
Figure 6-2. Trends in Harmfulness of Marijuana Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Occasional Use ..... 253

## LIST OF FIGURES (continued)

Figure 6-3. Trends in Harmfulness of Marijuana Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Regular Use ..... 254
Figure 6-4. Trends in Harmfulness of Synthetic Marijuana Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Trying Once or Twice ..... 255
Figure 6-5. Trends in Harmfulness of Synthetic Marijuana Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Occasional Use. ..... 256
Figure 6-6. Trends in Harmfulness of LSD Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Trying Once or Twice ..... 257
Figure 6-7. Trends in Harmfulness of LSD Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Regular Use ..... 258
Figure 6-8. Trends in Harmfulness of PCP Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Trying Once or Twice ..... 259
Figure 6-9. Trends in Harmfulness of Cocaine Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Trying Once or Twice ..... 260
Figure 6-10. Trends in Harmfulness of Cocaine Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Occasional Use ..... 261
Figure 6-11. Trends in Harmfulness of Cocaine Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Regular Use ..... 262
Figure 6-12. Trends in Harmfulness of Crack Cocaine Use as Perceived by Respondentsin Modal Age Groups of 18, 19-22, 23-26, and 27-30; TryingOnce or Twice263
Figure 6-13. Trends in Harmfulness of Crack Cocaine Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Occasional Use ..... 264
Figure 6-14. Trends in Harmfulness of Crack Cocaine Use as Perceived by Respondentsin Modal Age Groups of 18, 19-22, 23-26, and 27-30; Regular Use265

## LIST OF FIGURES (continued)

Figure 6-15. Trends in Harmfulness of Cocaine Powder Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Trying Once or Twice266

Figure 6-16. Trends in Harmfulness of Cocaine Powder Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Occasional Use.267

Figure 6-17. Trends in Harmfulness of Cocaine Powder Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Regular Use.268

Figure 6-18. Trends in Harmfulness of Ecstasy (MDMA) Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Trying Once or Twice269

Figure 6-19. Trends in Harmfulness of Ecstasy (MDMA) Use as Perceived by Respondents in Modal Age Groups of 19-22, 23-26, and 27-30; Occasional Use.270

Figure 6-20. Trends in Harmfulness of Heroin Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Trying Once or Twice
$\begin{array}{ll}\text { Figure 6-21. } & \text { Trends in Harmfulness of Heroin Use as Perceived by Respondents } \\ \text { in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Occasional Use ........ } 272\end{array}$
Figure 6-22. Trends in Harmfulness of Heroin Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Regular Use273

Figure 6-23. Trends in Harmfulness of Amphetamine Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Trying Once or Twice.274

Figure 6-24. Trends in Harmfulness of Amphetamine Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Regular Use

Figure 6-25. Trends in Harmfulness of Crystal Methamphetamine (Ice) Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Trying Once or Twice

## LIST OF FIGURES (continued)

$$
\begin{array}{ll}
\text { Figure 6-26. } & \text { Trends in Harmfulness of Sedative (Barbiturate) Use as Perceived by } \\
& \text { Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; } \\
& \text { Trying Once or Twice.................................................................................... } 277
\end{array}
$$

Figure 6-27. Trends in Harmfulness of Sedative (Barbiturate) Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Regular Use278

Figure 6-28. Trends in Harmfulness of Alcohol Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Trying Once or Twice279

Figure 6-29. Trends in Harmfulness of Alcohol Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Having One or Two Drinks per Day

Figure 6-30. Trends in Harmfulness of Alcohol Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Having Four or Five Drinks per Day281

Figure 6-31. Trends in Harmfulness of Binge Drinking as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Having Five or More Drinks Once or Twice Each Weekend282

Figure 6-32. Trends in Harmfulness of Tobacco Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Smoking One or More Packs of Cigarettes per Day283

Figure 6-33. Trends in Harmfulness of Smokeless Tobacco Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; Regular Use284

Figure 7-1. Trends in Exposure to Use of Any Illicit Drugs among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Any Exposure .332

Figure 7-2. Trends in Exposure to Use of Any Illicit Drugs among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Often Exposed .333

Figure 7-3. Trends in Exposure to Use of Any Illicit Drug other than Marijuana among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Any Exposure .334

## LIST OF FIGURES (continued)

Figure 7-4. Trends in Exposure to Use of Any Illicit Drug other than Marijuana among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Often Exposed335

Figure 7-5. Trends in Exposure to Use of Marijuana among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Any Exposure .336

Figure 7-6. Trends in Exposure to Use of Marijuana among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Often Exposed337

Figure 7-7. Trends in Exposure to Use of LSD among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Any Exposure338

Figure 7-8. Trends in Exposure to Use of LSD among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Often Exposed339

Figure 7-9. Trends in Exposure to Use of Hallucinogens other than LSD among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Any Exposure340

Figure 7-10. Trends in Exposure to Use of Hallucinogens other than LSD among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Often Exposed341

Figure 7-11. Trends in Exposure to Use of Cocaine among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Any Exposure342

Figure 7-12. Trends in Exposure to Use of Cocaine among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Often Exposed.343

Figure 7-13. Trends in Exposure to Use of Heroin among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Any Exposure344

Figure 7-14. Trends in Exposure to Use of Heroin among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Often Exposed.345

Figure 7-15. Trends in Exposure to Use of Narcotics other than Heroin among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Any Exposure346

Figure 7-16. Trends in Exposure to Use of Narcotics other than Heroin among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Often Exposed

## LIST OF FIGURES (continued)

$\begin{array}{ll}\text { Figure 7-17. } & \text { Trends in Exposure to Use of Amphetamines among Respondents } \\ \text { in Modal Age Groups of 18, 19-22, 23-26, and 27-30; } \\ & \text { \% Saying Any Exposure ................................................................................. } 348\end{array}$
Figure 7-18. Trends in Exposure to Use of Amphetamines among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Often Exposed349

Figure 7-19. Trends in Exposure to Use of Sedatives (Barbiturates) among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Any Exposure350

Figure 7-20. Trends in Exposure to Use of Sedatives (Barbiturates) among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Often Exposed351

Figure 7-21. Trends in Exposure to Use of Tranquilizers among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Any Exposure352

Figure 7-22. Trends in Exposure to Use of Tranquilizers among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Often Exposed353

Figure 7-23. Trends in Exposure to Use of Alcohol among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Any Exposure. .354

Figure 7-24. Trends in Exposure to Use of Alcohol among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30; \% Saying Often Exposed......... 355

Figure 9-1. Any Illicit Drug: Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students393

Figure 9-2. Any Illicit Drug other than Marijuana: Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students394

Figure 9-3a. Marijuana: Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students 395

## LIST OF FIGURES (continued)

Figure 9-3b. Marijuana: Trends in 30-Day Prevalence of Daily Use among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students396
Figure 9-4. Synthetic Marijuana: Trends in Annual Use among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students ..... 397
Figure 9-5. Inhalants: Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students ..... 398
Figure 9-6. Hallucinogens: Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students ..... 399
Figure 9-7. LSD: Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students ..... 400
Figure 9-8. Hallucinogens other than LSD: Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students. ..... 401
Figure 9-9. Ecstasy (MDMA): Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students ..... 402
Figure 9-10. Cocaine: Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students ..... 403
Figure 9-11a. Narcotics other than Heroin: Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students ..... 404
Figure 9-11b. Vicodin: Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School ..... 405
Figure 9-11c. OxyContin: Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School. ..... 406

## LIST OF FIGURES (continued)

Figure 9-12. Amphetamines: Trends in Annual Prevalence among College Students vs.
Others 1 to 4 Years beyond High School and among Male vs. Female
College Students ..... 407

Figure 9-13. Sedatives (Barbiturates): Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students .408

Figure 9-14. Tranquilizers: Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students409

Figure 9-15a. Alcohol: Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students

Figure 9-15b. Alcohol: Trends in 30-day Prevalence among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students411

Figure 9-15c. Alcohol: Trends in 30-day Prevalence of Daily Use among College
Students vs. Others 1 to 4 Years beyond High School and among Male
vs. Female College Students ..... 412

Figure 9-15d. Alcohol: Trends in 2-Week Prevalence of 5 or More Drinks in a Row among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students413

Figure 9-16a. Cigarettes: Trends in 30-Day Prevalence among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students414

Figure 9-16b. Cigarettes: Trends in 30-Day Prevalence of Daily Use among College
Students vs. Others 1 to 4 Years beyond High School and among Male
vs. Female College Students ..... 415

Figure 9-16c. Cigarettes: Trends in 30-Day Prevalence of Smoking a Half Pack or More per Day among College Students vs. Others 1 to 4 Years beyond High School and among Male vs. Female College Students416

## Chapter 1

## INTRODUCTION

Monitoring the Future (MTF), now in its $40^{\text {th }}$ year, is a research program conducted at the University of Michigan's Institute for Social Research under a series of investigator-initiated research grants from the National Institute on Drug Abuse-one of the National Institutes of Health. The study comprises several ongoing series of annual surveys of nationally representative samples of $8^{\text {th }}$ - and $10^{\text {th }}$-grade students (begun in 1991), $12^{\text {th }}$-grade students (begun in 1975), and high school graduates into adulthood (begun in 1976). The current monograph reports the results of the repeated cross-sectional surveys of high school graduates since 1976 as we follow them into their adult years. Segments of the general adult population represented in these follow-up surveys include:

- American college students
- Their age-peers who are not attending college, sometimes called the "forgotten half"
- All young adult high school graduates of modal ages 19 to 30 (or 19-28 for trend estimates), which we refer to as the "young adult" sample
- High school graduates at the specific later modal ages of $35,40,45,50$, and 55

In this volume, historical and developmental changes in substance abuse and related attitudes and beliefs occurring at these age strata receive particular emphasis.

The follow-up surveys have been conducted by mail on representative subsamples of the previous participants from each high school senior class. This volume presents data from the 1977 through 2014 follow-up surveys of the graduating high school classes of 1976 through 2013, as these respondents have progressed into adulthood. The oldest MTF respondents, from the class of 1977, were the first to be surveyed through age 55 in 2013.

Other monographs in this series include the Overview of Key Findings, ${ }^{1}$ which presents early results from the secondary school surveys; Volume $I,{ }^{2}$ which provides an in-depth look at the secondary school survey results; and the HIV/AIDS monograph, ${ }^{3}$ drawn from the follow-up surveys of 21- to 40 -year-olds, which focuses on risk and protective behaviors among young

[^0]adults related to the transmission of HIV/AIDS. This year's Overview and Volume I are currently available on the MTF website; ${ }^{4}$ the HIV/AIDS monograph will be published in the fall of 2015.

To enable the present volume to stand alone, we have repeated much of Chapters 2 and 3 from Volume I. Chapter 2 provides a summary of key findings from five of the populations under study ( $8^{\text {th }}$ graders, $10^{\text {th }}$ graders, $12^{\text {th }}$ graders, college students, and young adults). Chapter 3 outlines the study design and procedures.

## SURVEYS OF YOUNG ADULTS AND ADULTS AGES 35, 40, 45, 50, AND 55

The young adult sample consists of representative samples from each graduating class from 2001 to 2013, all surveyed in 2014 and corresponding to modal ages 19 through 30. College students are included as part of this young adult sample. The MTF study design calls for annual follow-up surveys of each high school class cohort through modal age 30, based on high school seniors being assumed to be modal age 18. Each individual participates in a follow-up survey only every two years.

Chapter 4 presents results on the prevalence of drug use for this 19- to 30-year-old young adult age group as well as middle adulthood through age 55. Chapter 5 presents the trends of adult drug use and covers young adult use from ages 19 through 28. The use of a somewhat shortened age range for young adults (through age 28 rather than age 30) allows the trend results to begin two years earlier historically, providing trend data starting in 1986 rather than 1988; further, using the 19 through 28 modal age range does not substantially affect the young adult data typically collected for ages 19 through 30.

MTF data collected into middle adulthood are rare in the field and provide for exceptionally useful analyses of adult substance use as well as many other behaviors and attitudes. Starting at modal age 35, surveys are conducted at five-year intervals. In 2014 the graduating classes of 1977, 1982, 1987, 1992, and 1997 were sent the age-55, age-50, age-45, age-40, and age-35 questionnaires, respectively. These nationally representative data make possible (1) analyses aimed at differentiating period-, age-, and cohort-related change; (2) analyses demonstrating long-term connections between use of various substances and many important potential outcomes (including eventual abuse and dependence, adverse health outcomes, and functioning in work and family roles); (3) tracking substance use involvement and how such involvement is affected by transitions into and out of social roles and social environments across the life course; and (4) determining some of the factors in adolescence and early adulthood that are predictive of later substance use, abuse, and dependence.

In this volume, we have reweighted respondent data to adjust for the effects of panel attrition on measures such as drug consumption using statistical poststratification, defined in Chapter 3 in the section on panel retention. We are less able to adjust for the absence of high school dropouts who were not included in the original $12^{\text {th }}$-grade sample. Because nearly all college students have completed high school, the omission of dropouts should have almost no effect on the college student population estimates, but this omission does affect the estimates for entire age groups.

[^1]Therefore, the reader is advised that the omission of about $8 \%$ to $15 \%$ of each cohort who drop out of high school likely make drug use estimates given here for the various age bands somewhat low for the age group as a whole. Fortunately, high school drop-out rates continue to decline, from around $15 \%$ in 1980 to under $10 \%$ in recent years. The proportional effect of missing dropouts may be greatest for use of dangerous drugs such as heroin, crack, and methamphetamine, as well as cigarettes-the latter is highly correlated with educational aspirations and attainment. Nevertheless, even with some underreporting of usage rates, the year-to-year trends observed should be little affected by the limitations in sample coverage.

## SURVEYS OF COLLEGE STUDENTS AND NONCOLLEGE PEERS

As defined here, the college student population comprises all full-time students enrolled in a two- or four-year college one to four years after high school in March during the year of the survey. More is said about this sample definition in Chapter 3 on study design. Results on the prevalence of drug use in 2014 among college students and also among their noncollege peers are reported in Chapter 8, and results on trends in substance use among college students and their noncollege peers are reported in Chapter 9, covering the 34-year interval since 1980.

The MTF follow-up samples have provided excellent coverage of the U.S. college student population for more than three decades (1980-2014). College students tend to be a difficult population to study for a variety of reasons. For a number of years they were generally not well covered in household surveys, which tended to exclude dormitories, fraternities, and sororities. Further, institution-based samples of college students must be quite large in order to attain accurate national representation because of the great heterogeneity in colleges and universities and in the types of student populations they serve. Obtaining good samples and high response rates within many institutions also poses difficulties, because the cooperation of each institution must be obtained, as well as reasonable samples of the student body. MTF draws the college sample prospectively in senior year of high school, so it has considerable advantages for generating a broadly representative sample of college students who emerge from each graduating cohort; moreover, it does so at very low cost. In addition, the "before, during, and after college" design permits examination of the many changes associated with the college experience. Finally, the MTF design also generates comparable panel data on high school graduates who are not attending college, an important segment of the young adult population not only in its own right, but also as a comparison group for college students. This is a particularly valuable and rare feature of this research design.

## GENERAL PURPOSES OF THE RESEARCH

MTF's research purposes are extensive and are outlined here only briefly. ${ }^{5}$ One major purpose is to serve an epidemiological social indicator function, that accurately characterize the levels and

[^2]trends in certain behaviors, attitudes, beliefs, and environmental conditions in the various populations covered. Social indicators can have important agenda-setting functions for society, drawing attention to new threats to the public health and estimating the extent of those threats as well as determining where they are concentrated in the population. They are especially useful for gauging progress toward national goals and indicating the impacts of major historical events, including social trends and policy changes. Another purpose of the study is to develop knowledge that increases our understanding of how and why historical changes in these behaviors, attitudes, beliefs, and environmental conditions are taking place. Such work is usually considered to be social epidemiology. These two broad purposes are addressed in the current series of volumes.

Additional etiologic purposes of MTF include helping to discover what types of young people are at greatest risk for developing various patterns of drug abuse, gaining a better understanding of the value orientations associated with various patterns of drug use and monitoring how these are shifting over time. MTF data permit the investigation of the immediate and more general aspects of the social environment that are associated with drug use and abuse, and permit the assessment of how drug use is affected by major transitions into and out of social environments (such as military service, civilian employment, college, unemployment) or social statuses (marriage, pregnancy, parenthood, divorce, remarriage). MTF examines the life course of various drug-using behaviors during this period of development, including progression to dependence). This knowledge allows MTF to distinguish such age effects from cohort and period effects that are influencing drug use and attitudes about drug use, to discover the effects of social legislation and changing regulations on various types of substance use, and to understand the changing connotations of drug use and changing patterns of multiple drug use among youth.

We believe that differentiating among period, age, and cohort effects on use of various types of substances and associated attitudes and beliefs has been a particularly important contribution of the project. The MTF cohort-sequential research design is well suited to discern changes with age common to all cohorts (age effects), differences among cohorts that tend to persist across time (cohort effects), and changes common to most or all ages in a given historical period (period effects).

Knowing which type of change is occurring is important for at least three reasons. First, it can help to discover what types of causes account for the change. For example, age effects are often explained by maturation as well as by environmental and role transitions associated with age, as this study has demonstrated. ${ }^{6,7,8}$ Second, the type of change can indicate when in the life course the causes may have had their impact; in the case of cohort effects, it may well have been in an earlier point in the life cycle than the age at which the change is actually documented. For example, we know from historical context and MTF data on age of initiation that the decline in

[^3]cigarette smoking observed among $12^{\text {th }}$ graders in the late 1970s actually reflected a cohort effect that emerged when those teens were younger, in the early 1970s, which was shortly after cigarette advertising was removed from radio and television. So, although we documented a cohort effect at $12^{\text {th }}$ grade, its origins were most likely due to earlier environmental changes. The third reason that knowing the type of change is important is that it can help in predicting future change more accurately. For example, the study has shown that perceived risk often is a leading indicator of change and also that cohort effects help to predict forthcoming changes at later ages. Needless to say, predicting change is extremely valuable to the policy, prevention, and treatment communities. This volume features well-established age effects, some important cohort differences that emerged in the 1990s, and recent period effects.

One important purpose of MTF, related to but distinct from the ones described so far, is to study risk and risk-reducing behaviors associated with HIV/AIDS. This purpose is addressed in the monograph HIV/AIDS: Risk \& protective behaviors among adults ages 21 to 40 in the U.S. ${ }^{9}$ Beginning in 2004, MTF has included questions on the prevalence and interconnectedness of risk and risk-reduction behaviors related to the spread of the human immunodeficiency virus (HIV) which causes acquired immunodeficiency syndrome (AIDS). The questions include drug involvement in general, injection drug use, needle sharing, number of sexual partners, gender(s) of those partners, use of condoms, getting tested for HIV/AIDS, and obtaining the results of such HIV tests. The questions were included in two of the six forms in the follow-up surveys of 21- to 30 -year-olds. They were added to an additional form beginning in 2007, to the age-35 questionnaire in 2008, and then (having shown no deleterious effects on response rate at age 35) to the age-40 questionnaire in 2010.

Readers interested in publications dealing with any of these areas are invited to visit the MTF website at www.monitoringthefuture.org.

[^4]
## Chapter 2

## KEY FINDINGS

## AN OVERVIEW AND INTEGRATION ACROSS FIVE POPULATIONS

Monitoring the Future, now having completed its $40^{\text {th }}$ year of data collection, has become one of the nation's most relied-upon scientific sources of valid information on trends in use of licit and illicit psychoactive drugs by US adolescents, college students, young adults, and adults up to age 55. During the last four decades, the study has tracked and reported on the use of an ever-growing array of such substances in these populations.

This annual series of monographs is the primary mechanism through which the epidemiological findings from MTF are reported. Findings from the inception of the study in 1975 through 2014 are included-the results of 40 national in-school surveys and 38 national follow-up surveys.

MTF has conducted in-school surveys of nationally representative samples of (a) $12^{\text {th }}$-grade students each year since 1975 and (b) $8^{\text {th }}$ - and $10^{\text {th }}$-grade students each year since 1991. In addition, beginning with the class of 1976, the project has conducted follow-up mail surveys on representative subsamples of the respondents from each previously participating $12^{\text {th }}$-grade class. These follow-up surveys now continue well into adulthood, currently up to age 55.

A number of important findings are summarized in this chapter to provide the reader with an overview of the key epidemiological results from the study. Because so many populations, drugs, and prevalence intervals are discussed here, a single integrative set of tables (Tables 2-1 through 2-4) shows the 1991-2014 trends for all drugs on five populations: $8^{\text {th }}$-grade students, $10^{\text {th }}$-grade students, $12^{\text {th }}$-grade students, full-time college students modal ages 19-22, and all young adults modal ages 19-28 who are high school graduates. (Note that the young adult group includes the college student population.) This volume also contains data on older age groups based on the longer term follow-up surveys, specifically ages $35,40,45,50$, and 55 , the latter available since 2013.

## TRENDS IN DRUG USE-THE ADVENT OF COHORT EFFECTS

Early in the 1990s, we reported an increase in use of several illicit drugs among secondary school students, and some important changes among the students in terms of certain key attitudes and beliefs related to drug use. In the volume reporting 1992 survey results, we noted the beginning of such reversals in both use and attitudes among $8^{\text {th }}$ graders, the youngest respondents surveyed in this study, and also a reversal in attitudes among $12^{\text {th }}$ graders. Specifically, the proportions seeing great risk in using drugs began to decline, as did the proportions saying they disapproved of use. As we suggested then, those reversals indeed presaged "an end to the improvements in the drug situation that the nation may be taking for granted." The use of illicit drugs rose sharply in all three
grade levels after 1992, in what we refer to as the "relapse phase" in the larger epidemic of illicit drug use, as negative attitudes and beliefs about drug use continued to erode. This pattern continued into the mid-1990s, and beyond that for some drugs.

Then in 1997, for the first time in six years, the overall level of illicit drug use finally showed a decline among $8^{\text {th }}$ graders. Although marijuana use continued to rise that year among $10^{\text {th }}$ and $12^{\text {th }}$ graders, their use of several other drugs leveled off, and relevant attitudes and beliefs also began to reverse in many cases. In 1998, illicit drug use continued a gradual decline among $8^{\text {th }}$ graders and also started to decline at $10^{\text {th }}$ and $12^{\text {th }}$ grades. In 1999 and 2000, the decline continued for $8^{\text {th }}$ graders, while use held fairly level among $10^{\text {th }}$ and $12^{\text {th }}$ graders. In 2002 and 2003, use by $8^{\text {th }}$ and $10^{\text {th }}$ graders decreased significantly, and use by $12^{\text {th }}$ graders finally began to drop; declines then continued for all three grades in 2004 and for several years thereafter. But in 2008, illicit drug use increased once again among $8^{\text {th }}$ and $12^{\text {th }}$ graders, followed by some increase in $8^{\text {th }}$ and $10^{\text {th }}$ grades in 2009, signaling an end to the immediately preceding period of decline. In 2010 the overall level of illicit drug use increased for all grades, although only the increase among $8^{\text {th }}$ graders was significant. In 2011 the increase continued among $10^{\text {th }}$ and $12^{\text {th }}$ graders and declined some at $8^{\text {th }}$ grade. We expected a continued increase into 2012 and later years, in part because of the ongoing trend toward increased use and in part because of the movement by some states to legalize the medical use of marijuana. Publicity around legalizing medical, and in some cases recreational, use may serve to normalize use of marijuana, the most widely used of all illicit substances. However, this anticipated rise has yet to pick up momentum, and in 2014 illicit drug use actually showed non-significant declines in all three grades for lifetime, annual, and 30-day use. Whether we will see the expected future increase in illicit drug use is a matter to be clarified with continued monitoring.

As will be illustrated below in the discussion of specific drugs, the increase in use of many drugs during the 1990s among secondary school students, combined with fairly level use among college students and young adults, resulted in some unusual reversals in prevalence levels by age (see Figure 2-1). In the early years of the epidemic, illicit drug use levels were clearly higher in the college-age group (and eventually the young adults) than they were among secondary school students. But by the late 1990s, the highest levels of active use (i.e., use within the prior year or prior 30 days) were found in the late secondary school years. In fact, in 1996 and 1997 both $10^{\text {th }}$ and $12^{\text {th }}$ graders actually had higher annual prevalence levels for illicit drug use (i.e., higher percentages reporting any use within the prior year) than either college students or all young adults. This changed somewhat after 2001, as the earlier, heavier-using cohorts of adolescents began to comprise the college student and young adult populations, while at the same time use among the incoming secondary school students was declining.

- As can be seen by the divergence of trends for the different age groups in what follows, something other than a simple secular trend in drug use was taking place; important cohort differences were emerging. (A cohort refers to a group of people born at the same time or, in this case, are in the same graduating class. A secular trend is a trend across time that occurs across multiple cohorts and multiple age groups.)
- In 2014, the rank order by age group for annual prevalence of using any illicit drug was $12^{\text {th }}$ graders and college students (39\%), 19- to 28 -year-olds (38\%), $10^{\text {th }}$ graders (30\%),
and $8^{\text {th }}$ graders (15\%). With respect to using any illicit drug other than marijuana in the past 12 months, prevalence ranged from 19- to 28-year-olds and college students (21\%) to $12^{\text {th }}$ graders ( $16 \%$ ), $10^{\text {th }}$ graders (11\%), and finally $8^{\text {th }}$ graders ( $6 \%$ ).
- Bath salts, so-called because they are sold over the counter as apparently innocuous products like bath salts but really contain strong stimulants, have been given much media attention in the past few years; however, there has been very little scientific information about the prevalence of their use. We believe that the 2012 MTF survey provided the first national survey data on their use. Fortunately, we found the annual prevalence in 2012 to be very low, at $0.8 \%, 0.6 \%$, and $1.3 \%$ in grades 8,10 , and 12 , respectively. In 2014 the prevalence levels are $0.5 \%, 0.9 \%$, and $0.9 \%$ in grades 8,10 , and 12 , respectively.
- From the early 1990s until 1997, marijuana use rose sharply among secondary school students, as did their use of a number of other illicit drugs, though more gradually. As previously stated, we have called this period a "relapse phase" in the longer term epidemic. An increase in marijuana use also began to occur among U.S. college students, largely reflecting "generational replacement" (i.e., a cohort effect), wherein earlier cohorts were replaced in the college population by more recent ones who were more drug-experienced before they left high school. This resurgence in illicit drug use spread up the age spectrum in a reversal of the way the epidemic spread several decades earlier. In the 1960s the epidemic began on the nation's college campuses, and then diffused downward in age to high school students and eventually to middle school students. This time the increases began in middle schools and radiated up the age spectrum. The graduating class cohorts in the middle and late 1990s carried with them the pattern of heavier drug use that emerged while they were in secondary school in the early 1990s.

Increases during the 1990s in use of any illicit drug (including use of marijuana and use of other illicit drugs treated as a class) were substantially larger, in both proportional and absolute terms, in the three secondary school grades than in either the college or young adult populations. Among college students and young adults, the annual prevalence of use of any illicit drug held remarkably stable from 1991 through 1997, at the same time use rose appreciably among adolescents (see Figure 2-1). We predicted that, as generational replacement continued to occur, we would likely see some increase in use of illicit drugs by the young adults. As would be expected given their younger age range (19-22), the increase happened sooner and more sharply among the college students than among the young adults in general (age range 19-28). Peak levels (since 1990) in annual prevalence of any illicit drug were reached in 1996 among $8^{\text {th }}$ graders, in 1997 among $10^{\text {th }}$ and $12^{\text {th }}$ graders, in 2001 among college students (before leveling for some years), and in 2004 (before leveling) in the young adult segment. Similarly, the more recent declines in use among secondary students have thus far shown up only modestly and briefly among college students, and hardly at all among young adults (see Figure 2-1). In the last few years, including 2014, the five populations do not show any consistent trends.

Again, the earlier diverging trends across the different age strata clearly show that changes during the 1990s reflected some important cohort effects rather than broad secular trends that would have appeared simultaneously in all of the age groups. During all of the previous
years of the study, the use of most drugs moved in parallel across most age groups, indicating that secular change was prevailing then.

- Similar to the use patterns for illicit drugs, the trend for cigarette smoking evidenced a generational replacement effect during the 1990s in that college students showed a sharp increase in smoking beginning in 1995, as the heavier smoking cohorts of secondary school students from the early to mid-1990s entered college. This has been a more typical pattern of change for cigarettes, however, since differences in cigarette smoking levels among class cohorts tend to remain through the life course and also tend to account for much of the overall change in use observed at any given age.

In the early 1990s, cigarette smoking among $8^{\text {th }}$ and $10^{\text {th }}$ graders rose by about $50 \%$-a particularly sharp and worrisome rise (based on 30-day prevalence levels shown in Table 2-3, and daily and half-pack levels shown in Table 2-4); MTF was the first study to draw national attention to this momentous development. Smoking also rose among $12^{\text {th }}$ graders, beginning a year later.

The increase in current smoking ended among $8^{\text {th }}$ and $10^{\text {th }}$ graders in 1996 , among $12^{\text {th }}$ graders in 1997, and among college students in 1999. The nation then entered a period of appreciable decline in smoking levels that first began among $8^{\text {th }}$ graders in 1997 and radiated up the age spectrum as those cohorts aged. (The $8^{\text {th }}$-grade 30 -day prevalence fell by about three fourths, from $21 \%$ in 1996 to $4.5 \%$ in 2013.) Among the college and the young adult strata, the declines have been less sharp so far, but they are continuing. The 30-day smoking prevalence for college students in 2013 (14\%) was down more than half from the recent peak of $31 \%$ in 1999, with the decline accelerating after 2005 as the cohort effect worked its way up the age bands. Smoking among the young adult subgroup, on the other hand, has dropped by only about one third (to $20 \%$ by 2013) since its recent peak of $31 \%$ in 1998. The decline in smoking levels among secondary school students had been decelerating in all three grades in recent years; there was some evidence in 2010 that the decline had halted among $8^{\text {th }}$ and $10^{\text {th }}$ graders, and that a turnaround might occur. Fortunately, all three grades showed further declines from 2011 to 2014, with significant declines in $10^{\text {th }}$ and $12^{\text {th }}$ grades in 2014 (The recent decline may be due at least in part to a 2009 increase in federal taxes on tobacco products.) In 2014 college students showed a non-significant decline of 1.1 percentage points and young adults showed a significant decline of 2.6 percentage points in 30-day smoking prevalence.

- E-cigarette use was assessed by the study for the first time 2014. E-cigarettes now have the highest 30 -day prevalence of all tobacco products, including regular cigarettes, among $8^{\text {th }}, 10^{\text {th }}$, and $12^{\text {th }}$ graders. Prevalence of 2014 e-cigarette use is $9 \%, 16 \%$, and $17 \%$ in these respective grades. In $8^{\text {th }}$ and $10^{\text {th }}$ grades e-cigarette prevalence is more than twice the prevalence of regular cigarettes. Part of the reason for the popularity of ecigarettes is their low perceived risk: in all grades only $15 \%$ or less see a "great risk" in regular e-cigarette use, one of the lowest levels of perceived risk for all drugs measured. E-cigarettes have not surpassed regular cigarette use among the older populations: about $10 \%$ of college students and young adults used e-cigarettes in the prior 30 days.
- During the 1990s, the annual prevalence of marijuana use tripled among $8^{\text {th }}$ graders (from $6 \%$ in 1991 to $18 \%$ in 1996), more than doubled among $10^{\text {th }}$ graders (from $15 \%$ in 1992 to $35 \%$ in 1997), and nearly doubled among $12^{\text {th }}$ graders (from $22 \%$ in 1992 to $39 \%$ in 1997). Among college students, however, the increase in marijuana use, presumably due to a generational replacement effect, was much more gradual. Annual prevalence of use rose by about one third, from $27 \%$ in 1991 to $36 \%$ in 1998. Marijuana use began to decline in 1997 among $8^{\text {th }}$ graders and then did the same in 1998 among $10^{\text {th }}$ and $12^{\text {th }}$ graders. The rate of decline was rather modest, however, perhaps due in part to effects of the public debates over medical use of marijuana during that period. In 2001, use remained level in all three grades, but between 2001 and 2004 all three grades showed significant declines in their annual prevalence of marijuana use, with the proportional decline greatest among $8^{\text {th }}$ graders. Eighth graders exhibited the steadiest long-term decline from their recent peak in 1996, a decline of more than four-tenths by 2007. After 2007 use began to increase among $8^{\text {th }}$ graders (see Figure 5-4a in Chapter 5). Declines among $10^{\text {th }}$ and $12^{\text {th }}$ graders started a year later and accelerated after about 2001; between approximately 1997 and 2008, annual prevalence levels fell by $31 \%$ and $18 \%$ for $10^{\text {th }}$ and $12^{\text {th }}$ graders, respectively. All three grades have shown slight increases in annual prevalence since the mid-2000s although the increases have been uneven. In 2014 this trend halted and use declined in all three grades (the decline was significant in $10^{\text {th }}$ grade), as well as among college students and young adults. This halt is unexpected given declining levels of perceived risk and disapproval of marijuana among secondary school students (discussed in Chapter 8 of Volume I), suggesting that other factors may be at work to curb youth marijuana use.
- Current daily marijuana use in all of these groups rose substantially after 1992, reaching peak levels in a somewhat staggered fashion as that just described (see Table 2-4 and Figure 5-4a in Chapter 5). Daily use began a slow decline after 1999 among $8^{\text {th }}$ graders until 2007, after 2001 until 2009 among $10^{\text {th }}$ graders, and after 2003 until 2010 among $12^{\text {th }}$ graders, consistent with a cohort effect pattern. Use at all three grade levels was fairly level after 2004. In 2010 daily use at all three grade levels increased significantly and it increased further in grades 10 and 12 in 2011 and 2012, while holding steady in $8^{\text {th }}$ grade. In 2014 the prevalence of daily marijuana use declined in all three grades, with a significant decline in $10^{\text {th }}$ grade. The 2014 daily prevalence levels in grades 8,10 , and 12 , respectively, are $1.0 \%, 3.4 \%$, and $5.8 \%$. In other words, about one in every seventeen high school seniors is a daily marijuana user. (Additional detail on daily marijuana use over longer periods of time among middle and high school students is provided in Chapter 10.) College student and young adult levels of daily use have overall increased since 2007, from $3.5 \%$ to $5.9 \%$ in 2014 among college students and from $5.0 \%$ to $6.9 \%$ over that same interval among young adults. In general, prevalence of daily marijuana use was slow to decline, when annual and 30-day prevalence figures were dropping. Although the levels today are low relative to the peaks reported in the late 1970s, the $6.6 \%$ figure for $12^{\text {th }}$ graders in 2011 was the highest observed in some 30 years. The fact that daily marijuana use was rising through 2011 in all three grades serves as a reminder that a relapse in the epidemic of marijuana use, as occurred in the early 1990s, could still occur. The role of the many debates on legalizing marijuana for medical use, the actual legalization for recreational use by adults in some states, and the experiences those states have with the new laws likely will have an impact on present and future secular trends in use.

The amount of perceived risk associated with using marijuana fell during the earlier period of increased use in the late 1970s, and fell again during the more recent resurgence of use in the 1990s. Indeed, perceived risk among $12^{\text {th }}$ graders began to decline a year before use began to rise in the upturn of the 1990s, making perceived risk a leading indicator of change in use. (The same may have happened in $8^{\text {th }}$ grade, but we do not have data starting early enough to check that possibility.) The decline in perceived risk halted after 1997 for $8^{\text {th }}$ and $10^{\text {th }}$ graders, and annual prevalence began to decline a year or two later. Perceived risk also declined prior to the recent rebound in marijuana use. Again, perceived risk has been a leading indicator of change in use, as it has proven to be for a number of drugs. As discussed in Chapter 8, these attitudes, as well as the behaviors that they predict themselves, show evidence of cohort effects over the past decade and a half. Perceived risk of trying marijuana has been declining in recent years and dropped for $8^{\text {th }}, 10^{\text {th }}$, and $12^{\text {th }}$ graders in 2014.

Personal disapproval of marijuana use slipped considerably among $8^{\text {th }}$ graders between 1991 and 1996 and among $10^{\text {th }}$ and $12^{\text {th }}$ graders between 1992 and 1997 , as use rose considerably. For example, the proportions of $8^{\text {th }}, 10^{\text {th }}$, and $12^{\text {th }}$ graders who said they disapproved of trying marijuana once or twice fell by 17,21 , and 19 percentage points, respectively, during their respective intervals of decline. Subsequently, disapproval began to rise among $8^{\text {th }}$ graders after roughly 1997 and continued through 2007, while it began to rise in the upper grades in 2002 and also continued through 2007 among $10^{\text {th }}$ and $12^{\text {th }}$ graders, as use declined gradually. Since 2007 or 2008 there has been some reversal on this attitude as well as in use, with disapproval falling steadily in the upper grades and less consistently in grade 8 (see Figure 8-1b in Chapter 8). In 2014 disapproval continued to decline in $8^{\text {th }}$ and $12^{\text {th }}$ grades, although these declines were not statistically significant.

- Synthetic marijuana, so named because it contains synthetic versions of some of the cannabinoids found in marijuana, is a recent and important addition to the smorgasbord of drugs available to young people in the US. These designer chemicals are sprayed onto herbal materials that are then sold in small packets under such brand names as Spice and K-2. They have been readily available as over-the-counter drugs on the Internet and in venues like head shops and gas stations. While many of the most widely used chemicals were scheduled by the Drug Enforcement Administration in March of 2011, making their sale no longer legal, purveyors of these products have skirted the restrictions by making small changes in the chemical composition of the cannabinoids used. Use of these products was first measured in MTF in 2011 in a tripwire question for $12^{\text {th }}$ graders, asking about their frequency of use in the prior 12 months (see Table 2-2). Annual prevalence was found to be $11.4 \%$, making synthetic marijuana the second most widely used class of illicit drug after marijuana that year. In spite of the DEA's scheduling of the most common ingredients, use among $12^{\text {th }}$ graders remained unchanged in 2012, with $11.3 \%$ annual prevalence. Eighth and $10^{\text {th }}$ graders were also asked about use of these drugs in 2012, and their annual prevalence levels were $4.4 \%$ and $8.8 \%$, respectively, making synthetic marijuana the second most widely used illicit drug among $10^{\text {th }}$ graders, as well, and the third among $8^{\text {th }}$ graders behind marijuana and inhalants. In 2013 use dropped appreciably in all five populations, including statistically significant drops among $12^{\text {th }}$ graders, college
students, and young adults. These declines continued in 2014 with significant drops in prevalence among young adults, college students, $12^{\text {th }}$ and $10^{\text {th }}$ graders (a decline among $8^{\text {th }}$-grade students was not statistically significant). Efforts by the DEA and various states to make their sale illegal may well be making an impact. There is a relatively low level of perceived risk for trying synthetic marijuana once or twice, despite growing evidence of serious problems resulting from the use of these drugs. In 2014 a 30-day use question was added for all five populations, and the observed rates were $4.4 \%$ in $8^{\text {th }}$ grade, $2.7 \%$ in $10^{\text {th }}$ grade, $2.7 \%$ in $12^{\text {th }}$ grade, $0.0 \%$ among college students, and $0.4 \%$ among young adults. Obviously, the active use of these drugs has become concentrated among the younger secondary students.
- Among $12^{\text {th }}$ graders, the proportions using any illicit drug other than marijuana in the past twelve months rose from a low of $15 \%$ in 1992 to a high of $21 \%$ in 1999 (see Table 2-2); these levels were substantially below the $34 \%$ peak level reached two decades earlier, in 1981. All of the younger groups showed significant increases between 1992 and 1997, with use beginning to increase in 1992 among $8^{\text {th }}$ graders, in 1993 among $10^{\text {th }}$ and $12^{\text {th }}$ graders, and in 1995 among college students-reflecting strong evidence of a cohort effect. Use peaked in 1996 among $8^{\text {th }}$ and $10^{\text {th }}$ graders, in 1997 among $12^{\text {th }}$ graders, around 2004 for college students, and in 2008 for young adults. Since 1996 the $8^{\text {th }}$ graders have shown a gradual but considerable decline of one half in their use of illicit drugs other than marijuana, treated as a class ( $13.1 \%$ annual prevalence in 1996 to $6.4 \%$ in 2014). The decline among $10^{\text {th }}$ graders paused from 1998 to 2001 with a net decline of about a third in annual prevalence from $18.4 \%$ in 1996 to $11.3 \%$ in 2008; use leveled again for several years and then declined further in 2011. It now stands at $11.2 \%$. Twelfth-grade use also showed some decline beginning after 2001 (21.6\%) but stands just 5.7 percentage points lower (15.9\%) in 2014. College students so far have shown little change with a recent high point of $18.6 \%$ in 2004, but their use rose to $20.8 \%$ in 2014 (following a question change in 2013). Use among young adults varied between the narrow range of $17 \%$ and $19 \%$ from 2003 to 2013, but in 2014 use significantly increased to $21 \%$. In 2014, both college students and young adults generally showed some increases in their use of powder cocaine and amphetamines, which may explain their increases in 2014 in this index.
- Between 1989 and 1992 we noted an increase among $12^{\text {th }}$ graders, college students, and young adults in their use of $\mathbf{L S D}$, a drug quite popular in the late 1960s and early 1970s. In 1992 the newly added populations ( $8^{\text {th }}$ and $10^{\text {th }}$ graders) were also showing an increase in LSD use; for several more years, modest increases persisted in all five populations. Use of LSD peaked in 1995 among college students and young adults and in 1996 among $8^{\text {th }}$, $10^{\text {th }}$, and $12^{\text {th }}$ graders, after which LSD use gradually declined in all five populations until 2005 for $8^{\text {th }}, 10^{\text {th }}$, and $12^{\text {th }}$ graders. Overall, the pattern for LSD use seems more consistent with secular change than a cohort effect. The different age groups moved in parallel for the most part, likely in response to historical events in the environment, including a sharp reduction in LSD availability after 2001.

The proportion of $12^{\text {th }}$ graders seeing great risk associated with trying LSD declined by 4.3-percentage-points between 1991 and 1992, just prior to the significant increase in LSD use in 1993. The decline in perceived risk continued through 1997, halted in 1998, and has
resumed since 2009. The proportion of $12^{\text {th }}$ graders disapproving of LSD use began to decline in 1992, and continued to decline through 1996.

Because LSD was one of the earliest drugs to be popularly used in the US drug epidemic, young people in the 1990s may have been relatively unaware of the risks of use. They had less opportunity to learn vicariously about the consequences of use by observing others around them or to learn from intense media coverage of the issue, which occurred some years earlier. We were concerned that this type of generational forgetting of the dangers of a drug, which occurs as a result of generational replacement, could set the stage for a whole new epidemic of use. In fact, perceived harmfulness of LSD began to decline after 1991 among $12^{\text {th }}$ graders. Perceived risk and disapproval among $8^{\text {th }}$ and $10^{\text {th }}$ graders, first measured in 1993, both showed declines until 1997 or 1998, after which they leveled among $10^{\text {th }}$ graders but then declined considerably more among $8^{\text {th }}$ graders. In 2004, twelfth graders’ personal disapproval of trying LSD increased significantly, with little change since. Because the decline in use in the last few years has generally not been accompanied by expected changes in these attitudes and beliefs, we suspected that some displacement by another drug might have been taking place, at least through 2001. The most logical candidate is ecstasy (MDMA), which, like LSD, is used for its hallucinogenic effects; ecstasy was popular in the club and rave scenes, and was very much on the rise through 2001. After 2001, a sharp decline in the reported availability of LSD in all five populations (which corresponded to the closing of a major LSD lab by the Drug Enforcement Administration) very likely played a major role in the sharp decline in use of LSD among all groups. However, we want to caution that $8^{\text {th }}$ graders' attitudes, in particular, are changing such as to make them receptive to LSD use some time in the future, should a plentiful supply re-emerge. Fortunately, $8^{\text {th }}$ and $10^{\text {th }}$ graders reported declining availability in 2012. In 2014 there were no significant changes in perceived availability across the three grades.

- Questions about the use of ecstasy (MDMA) have been included in the follow-up surveys of college students and young adults since 1989; however, because of our concern about stimulating interest in an attractive-sounding and little-known drug, these questions were not added to the secondary school surveys until 1996. From 1989 to 1994, the annual prevalence levels tended to be quite low in the older age groups for which we had data, but in 1995 these levels increased-from $0.5 \%$ in 1994 to $2.4 \%$ in 1995 among college students, and from $0.7 \%$ to $1.6 \%$ over the same time span among young adults generally.

When usage data were first gathered on secondary school students in 1996, the $10^{\text {th }}$ and $12^{\text {th }}$ graders actually showed higher levels of annual use (both $4.6 \%$ ) than the college students (2.8\%). Ecstasy use then fell steadily in all three grades between 1996 and 1998, though it did not fall in the older age groups (see Table 2-2). But between 1998 and 2001, use rose sharply in all five populations. In fact, annual prevalence more than doubled in that three-year period among $12^{\text {th }}$ graders, college students, and young adults, and nearly doubled in the lower grades. In 2000 even the $8^{\text {th }}$ graders showed a significant increase in use. Ecstasy use for all five age groups declined slightly in 2002, but significantly only for $10^{\text {th }}$ graders; declined again in 2003, with significant drops for all groups except the college students; and showed some decline again in 2004, with the largest decreases among college
students and young adults. This pattern suggests that both cohort effects and a secular trend were at work. Once again, this decline in use among $12^{\text {th }}$ graders was predicted by an increase in perceived risk in 2001-an increase that continued through 2005. Among college students the annual prevalence fell by half in 2004 alone, and all five groups are at levels that are still much lower than their recent peaks in 2001. Since 2005 or 2006 to 2011, there was some rebound in use among all five populations, including a significant increase in the lower grades in 2010. In 2014 levels of use are lower than they were in 2011 for students in $8^{\text {th }}, 10^{\text {th }}$, and $12^{\text {th }}$ grades, but higher for college students and about the same for young adults.

Ecstasy use has been moving fairly synchronously among all five populations since 1999, which suggests a secular trend (some change in events in the social environment) that affected everyone. An important change during this period was the increasing availability of information on the adverse effects of ecstasy use via stories in the popular media, dissemination of the scientific evidence by the National Institute on Drug Abuse, and an anti-ecstasy media campaign by the Partnership for a Drug-Free America and the Office of National Drug Control Policy, initiated in 2002.

Availability of ecstasy increased dramatically through 2001, as reported by $12^{\text {th }}$ graders and substantiated by law enforcement data on ecstasy seizures. Of the $12^{\text {th }}$ graders surveyed in 1991, only $22 \%$ thought they could get ecstasy fairly easily, but a decade later (in 2001) $62 \%$ thought that they could. After 2001, however, the perceived availability of ecstasy began decreasing in all three grades, possibly due in part to the steep decline in the number of users who serve as supply points for others. The decreases continued through 2012 in the lower grades. In $12^{\text {th }}$ grade, the decline in perceived availability continued through 2009, then leveled. (See Figure 8-6 in Volume I, chapter 8 for a graphic presentation of the trends in ecstasy use, availability, and perceived risk for $12^{\text {th }}$ graders.) However, perhaps the most important change that has been taking place since 2005 is a continual decline in perceived risk for ecstasy use among $8^{\text {th }}, 10^{\text {th }}$, and $12^{\text {th }}$ graders, possibly as a result of generational forgetting. In our 2009 MTF report, we suggested that this decline in perceived risk was leaving students increasingly vulnerable to a possible rebound in use of ecstasy; indeed, there was some evidence that just such a rebound was occurring, at least through 2010 or 2011, but there had been no further increase after 2011.

- Between 1982 and 1992, among $12^{\text {th }}$ graders levels of amphetamine use in the past 12 months (other than use that was ordered by a physician) fell by nearly two thirds, from $20.3 \%$ to $7.1 \%$. Levels among college students fell even more over the same interval, from $21.1 \%$ to $3.6 \%$. During the relapse phase in the drug epidemic in the 1990 s, annual amphetamine use increased by about half among $8^{\text {th }}$ and $10^{\text {th }}$ graders between 1991 and 1996, and also increased among $12^{\text {th }}$ graders and college students between 1992 and 1996. After 1996 the age groups diverged, with amphetamine use declining gradually and substantially among $8^{\text {th }}$ graders-where use is now a fraction of what it was in 1996-but continuing to rise among $12^{\text {th }}$ graders (and eventually $10^{\text {th }}$ graders), college students, and young adults until about 2002. The declines continued in the upper grades through about 2008 but through 2013 for $8^{\text {th }}$ graders. Since 2009, annual prevalence has increased among $12^{\text {th }}$ graders (from $6.6 \%$ to $8.1 \%$ in 2014), perhaps as a result of more students using
amphetamines to help their academic work. Among students in college, amphetamine use rose even more sharply from $5.7 \%$ in 2008 to $10.1 \%$ in 2014, likely for the same reason. Young adults, who include the college students, showed less of an increase over the same interval, from $5.3 \%$ in 2008 to $8.0 \%$ in 2014. The pattern of cross-age-group change suggests a cohort effect at work for amphetamine use. Since the late 1990s there has been a greater difference between use among $8^{\text {th }}$ graders and use by older students, suggesting that an age effect has emerged, possibly due to the older students becoming more likely to use amphetamines to aid their academic performance. ("To help me study" was the highest endorsed reason $12^{\text {th }}$ graders gave for amphetamine use in 2012 and the third highest in 2014.)

Among $12^{\text {th }}$ graders, the increase in nonmedical use of amphetamines (and a concurrent decrease in disapproval) began in 1993; this followed a sharp drop in perceived risk a year earlier (which, as we have noted for a number of drugs, often serves as a leading indicator). Following a period of decline, perceived risk among $12^{\text {th }}$ graders increased gradually from 1995 through 2009. ${ }^{1}$

- Use of the stimulant drug Ritalin outside of medical supervision showed a distinct increase around 1997—with annual prevalence among $12^{\text {th }}$ graders going from $0.1 \%$ in 1992 to $2.8 \%$ in 1997—and then stayed level for a few years (see Appendix E, Table E-2²). Because of its increasing importance, a differently structured question was introduced for Ritalin use in 2001 (2002 in the follow-ups of college students and young adults). This new question, which we prefer to the original, does not use a prior branching question and produced somewhat higher prevalence levels. Results from the new question suggest an ongoing decline in Ritalin use, with prevalence levels in 2014 less than half of what they were when first measured in 2001-02.
- Another stimulant used in the treatment of the symptoms of attention deficit hyperactivity disorder (ADHD) is the amphetamine drug Adderall. A new question on its non-medical use was introduced in 2009; annual prevalence levels in 2009 through 2014 were higher than those for Ritalin in all five populations. This suggests that Adderall may have to some degree replaced the use of Ritalin and may help to account for the declines that we have been observing for the latter drug. Annual prevalence of Adderall changed rather little between 2009 and 2014 in $8^{\text {th }}$ and $10^{\text {th }}$ grades, although the levels seem to be drifting down. In $12^{\text {th }}$ grade, however, annual prevalence has risen from $5.4 \%$ in 2009 to $7.6 \%$ in 2012, followed by non-significant declines over the next two years. The absolute prevalence levels in 2014 are fairly high, particularly among $12^{\text {th }}$ graders (6.8\%), young adults (7.8\%), and college students (9.6\%).
- Methamphetamine questions were introduced in 1999 because of rising concern about use of this drug; but a decline in use has been observed among all five populations in the years

[^5]since then, through about 2012. In 2014 annual use in all five populations was very low particularly among college students ( $0.1 \%$ ). These substantial declines occurred during a period in which there were many stories in the media suggesting that methamphetamine use was a growing problem-an example of the importance of having accurate epidemiological data available against which to test conventional wisdom.

- Measures on the use of crystal methamphetamine or ice (a crystallized form of methamphetamine that can be smoked, much like crack) have been included in MTF since 1990. The use of crystal methamphetamine increased between the early and late 1990s among the three populations asked about their use: $12^{\text {th }}$ graders, college students, and young adults. However, use never reached very high levels. The estimates are less stable than usual due to the relatively small samples asked about this drug, but it appears that among $12^{\text {th }}$ graders crystal methamphetamine use held fairly steady from 1999 through 2005 (when it was $2.3 \%$ ); since then it has declined by roughly two-thirds, to $0.8 \%$ in 2014. Use rose somewhat among college students and other young adults until 2005, before dropping substantially since then. After their peak levels were reached in 2005, college students and young adults showed substantial drops in annual prevalence to less than $0.5 \%$ by 2014 for college students and young adults generally (see Table 2-2).
- Inhalants are defined as fumes or gases that are inhaled to get high, and they include common household substances such as glues, aerosols, butane, and solvents of various types. Among $12^{\text {th }}$ graders there was a long-term gradual increase in the use of inhalants (unadjusted for nitrite inhalants) from 1976 to 1987, followed by a leveling for a few years and then a further increase in the early 1990s. This troublesome increase in inhalant use also occurred among students in the lower grades, and was followed by a reversal in all 3 grades after 1995. After reaching a low point by 2002 or 2003 in grades 8,10 , and 12, use of inhalants increased some in all grades, but then declined in all grades. Annual prevalence is now at the lowest point in the history of the study for $10^{\text {th }}$ and $12^{\text {th }}$ graders, and near the lowest point for $8^{\text {th }}$ graders. Perceived risk for inhalant use among $8^{\text {th }}$ and $10^{\text {th }}$ graders declined fairly steadily after 2001, quite possibly as a result of generational forgetting of the dangers of these drugs; by 2014 the percent of $8^{\text {th }}$ and $10^{\text {th }}$ graders seeing great risk in trying inhalants fell by 11 and 7 percentage points. A new anti-inhalant campaign could well be effective in offsetting this decline in perceived risk in recent years, much as a similar campaign appeared to do in the mid-1990s.
- Amyl and butyl nitrites, one class of inhalants, became somewhat popular in the late 1970s, but their use has been almost eliminated in the years since then. The annual prevalence among $12^{\text {th }}$-grade students was $6.5 \%$ in 1979 but only $0.9 \%$ in 2009. (Because of this decrease in use, and to allow for the addition of other questions, the questions on nitrite use were dropped from the study in 2010.) When nitrites were included in the definition of inhalants, they masked the increase that was occurring in the use of other inhalants, because their use was declining at the same time that the use of the other inhalants was increasing (see Figure 5-4c).
- Crack cocaine use spread rapidly from the early to mid-1980s. Still, among $12^{\text {th }}$ graders, the use of crack remained relatively low during this period (3.9\% annual prevalence in
1987). Clearly, crack had quickly attained a reputation as a dangerous drug, and by the time of our first measurement of perceived risk in 1987, it was seen as the most dangerous of all drugs. Annual prevalence dropped sharply in the next few years, reaching $1.5 \%$ by 1991, where it remained through 1993. Perceived risk began a long and substantial decline after 1990-again serving as a driver and leading indicator of use. (The decline in perceived risk in this period may well reflect generational forgetting of the dangers of this drug.) Annual prevalence among $12^{\text {th }}$ graders rose gradually after 1993, from $1.5 \%$ to $2.7 \%$ by 1999. It finally declined slightly in 2000 and then held level through 2007. Since then, some additional decline has occurred. In 2014 annual prevalence for crack cocaine was at 1.1\%.

Among $8^{\text {th }}$ and $10^{\text {th }}$ graders, crack use rose gradually in the 1990s: from $0.7 \%$ in 1991 to $2.1 \%$ by 1998 among $8^{\text {th }}$ graders, and from $0.9 \%$ in 1992 to $2.5 \%$ in 1998 among $10^{\text {th }}$ graders. And, as just discussed, use among $12^{\text {th }}$ graders peaked in 1999 at $2.7 \%$ and among young adults at $1.4 \%$. Since those peak years, crack use has declined appreciably-by more than half among $8^{\text {th }}, 10^{\text {th }}$, and $12^{\text {th }}$ graders-yet it held fairly steady among college students and young adults, at least until 2007, when use among college students finally began to decline. The 2014 prevalence levels for this drug are relatively low-between $0.4 \%$ and $1.1 \%$ in all five groups. Twelfth graders have the highest prevalence. Annual crack prevalence among the college-bound has generally been considerably lower than among those not bound for college. The levels of use in 2014 are $0.9 \%$ for college-bound and $1.8 \%$ for noncollege-bound.

We believe that the particularly intense and early media coverage of the hazards of crack cocaine likely had the effect of capping an epidemic early by deterring many would-be users and motivating many experimenters to desist use. As has been mentioned, when we first measured crack use in 1987, it had the highest level of perceived risk of any illicit drug. Also, it did not turn out to be "instantly addicting" upon first-time use, as had been widely reported. In some earlier years, 1994 and 1995 for example, $3 \%$ of $12^{\text {th }}$ graders reported ever trying crack; however, only about $2 \%$ used in the prior 12 months and only about $1.0 \%$ used in the prior 30 days. It thus appears that, among the small numbers of $12^{\text {th }}$ graders who have ever tried crack, the majority of those who tried it did not establish a pattern of continued use, let alone develop an addiction.

Perceived risk and disapproval associated with crack dropped in all three grade levels in 1993, foretelling the rise in use that occurred in all three grades between 1994 and 1998 (1999 in the case of the $12^{\text {th }}$ graders). Because more than a decade had passed since the 1986 media frenzy over crack and its dangers, it is quite possible that generational forgetting of the risks of this drug contributed to the declines in perceived risk and disapproval. Indeed, perceived risk of crack use eroded steadily at all grade levels from 1991 (or 1992 for $12^{\text {th }}$ graders) through 2000. There was not much systematic change in risk or disapproval of crack after that, though disapproval did rise some in all grades and perceived risk has increased some among the $12^{\text {th }}$ graders since 2009. For $10^{\text {th }}$ and $12^{\text {th }}$ graders perceived risk of trying crack rose after 2007.

- Use of cocaine ${ }^{3}$ in general began to decline a year earlier than crack, probably because crack was still in the process of diffusing to new parts of the country, being still quite new. Between 1986 and 1987 the annual prevalence for cocaine dropped dramatically, by about one fifth in all three populations being studied at that time- $12^{\text {th }}$ graders, college students, and young adults. The decline occurred when young people finally began to view experimental and occasional use-the type of use in which they thought they would be most likely to engage-as more dangerous. This change was probably influenced by the extensive media campaigns that began in the preceding year, but also almost surely by the highly publicized cocaine-related deaths in 1986 of sports stars Len Bias and Don Rogers. By 1992 the annual prevalence of cocaine use had fallen by about two thirds among the three populations for which long-term data are available ( $12^{\text {th }}$ graders, college students, and young adults).

During the resurgence of illicit drug use in the 1990s, however, cocaine use in all five populations increased once again, both beginning and ending in a staggered pattern by age, consistent with a cohort effect. Use rose among $8^{\text {th }}$ graders from 1991 to 1998 , among $10^{\text {th }}$ and $12^{\text {th }}$ graders from 1992 to 1999, among college students from 1994 to 2004, and among young adults from 1996 through 2004. As with crack, all five populations showed some decline in cocaine use in 2008 through 2011 and a levelling over the next two years. In 2014 little change in prevalence was apparent in $8^{\text {th }}, 10^{\text {th }}$, and $12^{\text {th }}$ grades, but for the first time in a decade significant increases took place among college students and young adults. Annual prevalence levels in 2014 were $1.0 \%, 1.5 \%, 2.6 \%, 4.4 \%$, and $5.0 \%$ for the five populations, respectively. For a few years (1996-1999) $12^{\text {th }}$ graders had higher prevalence than did the young adults; but because of the staggered declines in use, young adults have had the highest prevalence in all years since then (see Table 2-4).

The story regarding attitudes and beliefs about cocaine use is informative. Having risen substantially after 1986, the perceived risk of using cocaine showed some (nonsignificant) decline in 1992 among $12^{\text {th }}$ graders. In 1993, perceived risk for cocaine powder fell sharply in all grades and disapproval began to decline in all grades, though not as sharply as perceived risk. During this time cocaine use was making a comeback. The decline in perceived risk had virtually ended by 1995 among $8^{\text {th }}$ graders, by 1998 among $10^{\text {th }}$ graders, and by 2001 among $12^{\text {th }}$ graders, suggesting a cohort effect at work in this important belief, which tends to drive use. Tenth graders’ perceived risk for trying cocaine powder rose further after 2007, and $12^{\text {th }}$ graders’ disapproval of trying cocaine also has increased in recent years.

The perceived availability of cocaine among $12^{\text {th }}$ graders rose steadily from 1983 to 1989 , suggesting that availability played no role in the substantial downturn in use that occurred after 1986. After 1989, however, perceived availability fell some among $12^{\text {th }}$ graderswhich may be explained in part by the greatly reduced proportions of $12^{\text {th }}$ graders who said they have any friends who use, because friendship circles are an important part of the supply system. After 1995, availability began a long and substantial drop among $8^{\text {th }}$ graders, as it did after 1998 among $10^{\text {th }}$ graders and after 2006 among $12^{\text {th }}$ graders.

[^6]- Use of PCP, measured and reported only for $12^{\text {th }}$ graders and young adults, fell sharply among $12^{\text {th }}$ graders between 1979 and 1982, from an annual prevalence of $7.0 \%$ to $2.2 \%$. It reached a low point of $1.2 \%$ in 1988, rose some in the 1990s during the relapse period in the drug epidemic, reaching $2.6 \%$ by 1996, and then declined to $0.8 \%$ in 2014. For young adults, annual prevalence has fluctuated between $0.1 \%$ and $0.6 \%$, but has remained quite low in recent years, standing at $0.1 \%$ in 2014.
- The annual prevalence of heroin use among $12^{\text {th }}$ graders fell by half between $1975(1.0 \%)$ and 1979 ( $0.5 \%$ ), then stabilized for 15 years, through 1994. Heroin use was also stable in the early 1990s among the other four populations covered here (see Table 2-2). Then, in 1994 for $8^{\text {th }}$ graders and in 1995 for all other groups, use suddenly increased, with prevalence doubling or tripling in one or two years for $12^{\text {th }}$ graders, college students, and young adults, and then remaining at the new higher levels among all five populations for the rest of the decade. After the period 1999 to 2001, heroin use fell back to lower levels than were observed in the mid- to late-1990s. Most of that decline was in heroin use without a needle, which we believe was largely responsible for the increase in use in the first half of the 1990s. In sum, all age groups except for the young adults had annual levels of heroin use in 2014 that were well below recent peaks (by roughly one half to two thirds). Young adults have remained at peak levels ( $0.4-0.6 \%$ in 2008-2014), perhaps due in part to a cohort effect working its way up through the age spectrum. Twelfth graders did show a significant increase to $0.7 \%$ annual prevalence in 2010 for heroin use with a needle, though there was no evidence of such an increase in any of the other four populations, which left us cautious about that finding. However, the 2011 prevalence provided some confirmation that an increase did occur-annual prevalence was at $0.6 \%$, which, except for 2010, was higher than any level reported since 1995 when this question was first asked. There is little evidence of any ongoing trend at present-indeed, the $12^{\text {th }}$ graders' annual prevalence for heroin use with a needle was $0.5 \%$ in 2014, suggesting that if there was an increase in use, it was short-lived. Four of the five populations show annual prevalence levels at $0.5 \%$ or less; $12^{\text {th }}$ graders are at $0.6 \%$.

Two factors very likely contributed to the upturn in heroin use in the 1990s. One is a longterm decline in the perceived risk of harm, probably due to generational forgetting, because it had been a long time since the country had experienced a heroin epidemic along with accompanying publicity about its casualties. The second factor, not unrelated to the first, is that in the 1990s the greatly increased purity of heroin allowed it to be used by means other than injection. This may have lowered an important psychological barrier for some potential users, making heroin use less aversive and seemingly less addictive and less risky in general, because avoiding injection reduces the likelihood of transmission of HIV, hepatitis, or other serious blood-borne diseases. The introduction of additional questions on heroin use in 1995 showed that significant proportions of past-year users in all five populations were indeed taking heroin by means other than injection at that point (see Table 2-2, and Chapter 4 in Volume I and in this volume for details).

The risk perceived to be associated with heroin fell for more than a decade after the study began, with $60 \%$ of the 1975 twelfth graders seeing a great risk of trying heroin once or twice, and only 46\% of the 1986 twelfth graders saying the same. Between 1986 and 1991,
perceived risk rose some, from $46 \%$ to $55 \%$, undoubtedly reflecting the newly recognized threat of HIV infection associated with heroin injection. After 1991, however, perceived risk began to fall once again (to $51 \%$ by 1995), this time perhaps reflecting the fact that the newer heroin available on the street could be administered by methods other than injection. Between 1996 and 1998, perceived risk among $12^{\text {th }}$ graders rose—possibly as the result of an anti-heroin campaign launched by the Partnership for a Drug-Free America in June 1996, as well as the visibility of heroin-related deaths of some celebrities in the entertainment and fashion design worlds (what we call the "unfortunate role models"). The perceived risk of trying heroin decreased among $12^{\text {th }}$ graders in 1999, however, foretelling a significant increase in their use of the drug in 2000. In 2001, as the perceived risk of trying heroin increased slightly, $12^{\text {th }}$-grade use declined significantly. In recent years there has been little systematic change in the perceived risk nor in the very high levels of disapproval of heroin use.

Questions about the degree of risk perceived to be associated with heroin use were introduced into the questionnaires for $8^{\text {th }}$ and $10^{\text {th }}$ graders in 1995. The questions asked specifically and only about use "without using a needle" because we thought this was the form of heroin use of greatest concern at that point. (Similar questions were asked of $12^{\text {th }}$ graders, as well, in one of the six questionnaire forms used in $12^{\text {th }}$ grade.) In general, perceived risk for heroin use without a needle began rising after 1995, leveled for a while, and then began rising further. Perceived risk held fairly steady among $8^{\text {th }}$ and $10^{\text {th }}$ graders since it was first measured.

- The use of narcotics other than heroin is reported only for $12^{\text {th }}$ graders and older populations because we believe that younger students are not accurately discriminating among the drugs that should be included or excluded from this general class. Use declined gradually over most of the first half of the study in these three older groups. Twelfth graders had an annual prevalence in 1977 of $6.4 \%$, which fell to $3.3 \%$ by 1992. But after about 1992 or 1993, all of the older age groups showed continuing increases for a decade or more, through 2003 or 2004, before stabilizing. Updating the list of examples given in the question stem in 2002 (to include Vicodin and OxyContin) led to an increase in reported prevalence. After a considerable increase in use from 1992 through 2001, during the relapse phase of the general epidemic and going beyond it, the use of narcotics other than heroin remained relatively constant at high levels through 2010. Since 2012 levels of use have declined in every year in each of the populations of $12^{\text {th }}$ graders, college students, and young adults.

The specific drugs in this class are listed in Table E-4 in Appendix E. Among these, Vicodin, codeine, OxyContin, and Percocet are commonly mentioned by $12^{\text {th }}$ graders in recent years. In 2013 hydrocodone was added to the list of specific narcotics other than heroin and was the most frequently mentioned in both 2013 and 2014.

- In 2002, specific questions were added for Vicodin and OxyContin. The observed prevalence levels suggest that these two drugs likely help to account for the upturn in use of the general class of narcotics other than heroin. In 2003, Vicodin had attained surprisingly high prevalence levels in the five populations under study here- annual levels
of $2.8 \%$ in $8^{\text {th }}$ grade, $7.2 \%$ in $10^{\text {th }}$ grade, $10.5 \%$ in $12^{\text {th }}$ grade, $7.5 \%$ among college students, and $8.6 \%$ among young adults. In 2014 prevalence levels were down for all age groups: $1.0 \%, 3.4 \%, 4.8 \%, 2.8 \%$, and $4.8 \%$, respectively. OxyContin started with lower annual prevalence levels than Vicodin across all age groups in 2002, but given the highly addictive nature of this narcotic drug these levels were not inconsequential. Annual prevalence for OxyContin increased in 2003 with slight further increases and leveling through 2011. Since then its use has declined overall, although the decline has not been smooth. Prevalence levels in 2014 were $1.0 \%, 3.0 \%, 3.3 \%, 1.3 \%$, and $2.5 \%$ for $8^{\text {th }}, 10^{\text {th }}$, and $12^{\text {th }}$ grades, college students, and young adults. Because OxyContin has received considerable adverse publicity in recent years, it is possible that perceived risk (which we did not measure for this drug until 2012) increased. But because its use appears to have originated in several fairly delimited geographic areas, it seems likely that OxyContin was diffusing to new communities for some time, which may have delayed the turnaround in its use. We believe a similar process happened earlier when crack use and ecstasy use were rising. Questions on perceived risk of Vicodin and OxyContin were added to the $8^{\text {th }}$ - and $10^{\text {th }}$-grade questionnaires in 2012; perceived risk is relatively low in both grades, although it increased for $8^{\text {th }}$ grade students in 2014.
- Annual prevalence of tranquilizer use among $12^{\text {th }}$ graders saw a long and substantial decline from $11 \%$ in 1977 to $2.8 \%$ in 1992. After 1992, use increased significantly among $12^{\text {th }}$ graders as did most drugs, reaching $7.7 \%$ in 2002 (but the question was revised slightly in 2001 to include Xanax as an example of a tranquilizer, so a small portion of the increase may be an artifact). Since then, annual prevalence has leveled or even dropped a bit (4.7\% in 2014). Reported tranquilizer use also increased modestly among $8^{\text {th }}$ graders, from $1.8 \%$ in 1991 to $3.3 \%$ in 1996, before declining to $2.6 \%$ in 1998. It remained between $2.4 \%$ and $2.8 \%$ until 2011, when it declined significantly to $2.0 \%$. It was at $1.7 \%$ in 2014. As with a number of other drugs, the downturn in use began considerably earlier among $8^{\text {th }}$ graders compared to their older counterparts. Among $10^{\text {th }}$ graders, annual prevalence remained stable between 1991 and 1994 at around 3.3\%, and then increased significantly to $7.3 \%$ by 2001 (possibly including some artifact, as noted above). Since 2001 tranquilizer use has declined very gradually in all three grades. After a period of stability, college student use showed an increase between 1994 and 2003 (to 6.9\%), more than tripling in that period. Since then there has been a gradual decline there as well, to $3.5 \%$ by 2014. For the young adult sample, after a long period of decline, annual prevalence more than doubled between 1997 and 2002 to $7.0 \%$, with a slight, overall decline thereafter to $4.8 \%$ in 2014. Thus, while there was a considerable increase in use in all five populations, which reflected in part a cohort effect that first began in the early 1990s among $8^{\text {th }}$ graders, that increase is clearly over and there has been some downward correction in recent years. Most of the reported tranquilizer use in recent years has involved Valium, Xanax, and more recently Klonopin (see Table E-3 in Appendix E).
- The long-term gradual decline in sedative (barbiturate) use among $12^{\text {th }}$ graders, which has been observed since the start of the study in 1975, halted in 1992. (Data are not included here for $8^{\text {th }}$ and $10^{\text {th }}$ graders, again because we believe that these students have more problems with proper classification of the relevant drugs.) Use among $12^{\text {th }}$ graders then rose considerably during the relapse phase in the drug epidemic, from $2.8 \%$ in 1992 to
6.7\% by 2002—but still well below the peak level of $10.7 \%$ in 1975; use has shown a modest decline since 2002, to $4.3 \%$ in 2014. The 2014 annual prevalence of this class of drugs was highest among $12^{\text {th }}$ graders (4.3\%) as compared to young adults (3.2\%) and college students (3.1\%). Use among college students began to rise a few years later than it did among $12^{\text {th }}$ graders, again likely reflecting a cohort effect, but by 2011 it was at its lowest point since 1998. There followed a small increase from 2012 to 2014. Among young adults, sedative (barbiturate) use increased since the early 1990s, rising from $1.6 \%$ in 1992 to $4.4 \%$ in 2004. It stands at $3.2 \% \%$ in 2014, after declining some in recent years.
- Methaqualone, another sedative drug, has shown a trend pattern quite different from barbiturates. Methaqualone use rose among $12^{\text {th }}$ graders from 1975 to 1981, when annual prevalence reached $7.6 \%$. Its use then fell sharply, declining to $0.2 \%$ by 1993 before rising some during the general drug resurgence in the 1990s, although only to $1.1 \%$ by 1996. Prevalence levels have shown little consistent change since then, with use standing at $0.4 \%$ in 2012. The question was dropped in 2013 to make room for other questions. Use also fell in the 1980s among young adults and college students, who had annual prevalence levels by 1989-the last year they were asked about this drug-of only $0.3 \%$ and $0.2 \%$, respectively. In the late 1980s, shrinking availability may well have played a role in the decline, as legal manufacture and distribution of methaqualone ceased. Because of very low usage, only $12^{\text {th }}$ graders were asked about use of this drug for some years, before it was dropped. Methaqualone is one of the very few illegal drugs, the use of which has dropped to relatively negligible levels during the life of MTF. PCP is another.
- Clearly use of most of the several classes of psychotherapeutic drugs-sedatives (barbiturates), tranquilizers, and narcotics other than heroin-has become a larger part of the nation's drug abuse problem. While the rise in use appears to have halted, most prevalence levels remain relatively high. During much of the 1990s and into the 2000s, we were seeing a virtually uninterrupted increase among $12^{\text {th }}$ graders, college students, and young adults in the use of all of these drugs, which had fallen from favor from the mid1970s through the early 1990s. These drugs continued to rise, even after the increase in use of most illegal drugs ended in the late 1990s and began to reverse.
- For many years, five classes of illicitly used drugs-marijuana, amphetamines, cocaine, LSD, and inhalants-had an impact on appreciable proportions of young Americans in their late teens and 20s. In 2014, twelfth graders showed annual prevalence levels for these drugs of $35.1 \%, 8.1 \%, 2.6 \%, 2.5 \%$, and $1.9 \%$, respectively, reflecting declines in most of them, especially LSD. Among college students in 2014, the comparable annual prevalence levels were $34.4 \%$, $10.1 \%, 4.4 \%$, $2.2 \%$, and $1.3 \%$; for all young adults the levels were $31.6 \%, 8.0 \%, 5.0 \%, 2.2 \%$, and $1.1 \%$. Because $\boldsymbol{L S D}$ use has fallen so precipitously since 2001 in all five populations, it no longer ranks as one of the major drugs of abuse, whereas narcotics other than heroin have become quite important due to the long-term rise in use that began in the 1990s. These narcotics now have annual prevalence levels of 5-6\% among $12^{\text {th }}$ graders, college students, and young adults. Tranquilizers have also become more important due to a similar rise in use, with prevalence levels in 2014 of about $4-5 \%$ across the same three populations, as have sedatives (barbiturates), with levels of $4.3 \%, 3.1 \%$, and $3.2 \%$, respectively. The increase in use of these prescription-type drugs, combined with
the decline in use of many illegal drugs, means that the misuse of prescription-type drugs clearly became a more important part of the nation's drug problem.

Ecstasy (MDMA) joined this set of long-established, more prevalent drugs for a period of time, but annual prevalence levels for ecstasy dropped considerably between 2000 and 2009, making ecstasy less prevalent than a number of other illicit drugs. In 2012 annual use declined significantly for all three grades. The 2014 levels are less than half the peaks observed in 2001 for $8^{\text {th }}, 10^{\text {th }}$, and $12^{\text {th }}$ graders, and college students. For young adults 2014 annual prevalence is down about $1 / 3$ from its peak in 2001.

- In $8^{\text {th }}$ grade inhalants rank second only to marijuana among the illicitly used drugs in terms of thirty-day, annual and lifetime prevalence. Because the use of inhalants reflects a form of illicit psychoactive drug use, and because of its importance among the younger adolescents, an additional index of "any illicit drug use including inhalants" was introduced in Tables 2-1 through 2-3. The inclusion of inhalants makes relatively little difference in the illicit drug index prevalence levels for the older age groups, but considerable difference for the younger ones. For example, in 2014 the proportion of $8^{\text {th }}$ graders reporting any illicit drug use in their lifetime, exclusive of inhalants, was $20 \%$, whereas including inhalants raised the figure to $25 \%$.
- Several drugs have been added to MTF's coverage over the years, including ketamine, GHB, and Rohypnol, which are so-called "club drugs" (in addition to LSD and ecstasy). In general, these drugs have low prevalence levels that have declined over the past several years among $8^{\text {th }}, 10^{\text {th }}$, and $12^{\text {th }}$ graders. For that reason GHB and ketamine were dropped from the $8^{\text {th }}$ - and $10^{\text {th }}$-grade surveys in 2012 . For $12^{\text {th }}$ graders, the 2014 annual prevalence was $1.5 \%$ for ketamine and $1.0 \%$ for GHB. Annual prevalence of Rohypnol was $0.3 \%$ for $8^{\text {th }}$ graders, $0.5 \%$ for $10^{\text {th }}$ graders, and $0.7 \%$ for $12^{\text {th }}$ graders in 2014.
- The two narcotic drugs added to MTF's coverage in 2002-OxyContin and Vicodinshow considerably higher levels of prevalence, as noted earlier.
- Questions on use of Provigil (a prescription stay-awake drug used for narcolepsy, shift work, etc.) were added to the $12^{\text {th }}$-grade and follow-up questionnaires in 2009. In 2011 levels of Provigil use in the past year by $12^{\text {th }}$ graders, college students, and young adults were $1.5 \%, 0.2 \%$, and $0.3 \%$, respectively, suggesting that this drug had not made serious inroads in terms of non-medically supervised use. Given the low use, questions on Provigil were dropped from the study in 2012.
- Salvia divinorum is a psychoactive plant that is legally available in most states; questions on salvia were added to the $12^{\text {th }}$-grade and follow-up questionnaires in 2009 and were added to the $8^{\text {th }}$ - and $10^{\text {th }}$-grade questionnaires in 2010. Unlike Provigil, the annual prevalence levels of salvia were not inconsequential; in 2011, the levels were $1.6 \%$ among $8^{\text {th }}$ graders, $3.9 \%$ among $10^{\text {th }}$ graders, $5.9 \%$ among $12^{\text {th }}$ graders, $3.1 \%$ for college students, and $2.2 \%$ for young adults (see Table 2-2). But by 2014 levels of salvia use had declined in all five populations, suggesting that the popularity of this drug has peaked. Still, $1.8 \%$
of the $12^{\text {th }}$ graders report some past-year use in 2014 , but the college and young adult populations have prevalence levels at or below $1.2 \%$.
- Anabolic steroid use occurs predominantly among males. In 2014 the annual prevalence levels for males in $8^{\text {th }}, 10^{\text {th }}$, and $12^{\text {th }}$ grades were $0.6 \%, 1.1 \%$, and $2.0 \%$, compared with $0.5 \%, 0.5 \%$, and $0.7 \%$ for females. Between 1991 and 1998, the overall annual prevalence levels were fairly stable among $8^{\text {th }}$ and $10^{\text {th }}$ graders, ranging between $0.9 \%$ and $1.2 \%$. In 1999, however, use jumped from $1.2 \%$ to $1.7 \%$ in both grades. Almost all of that increase occurred among males, from $1.6 \%$ in 1998 to $2.5 \%$ in 1999 in $8^{\text {th }}$ grade and from $1.9 \%$ to $2.8 \%$ in $10^{\text {th }}$ grade. Thus, levels among males increased by about half in a single year, which corresponded in time to stories in the news media about the use of androstenedione, a steroid precursor, by baseball home-run king Mark McGwire. Since then, among all $8^{\text {th }}$ graders, anabolic steroid use has declined by almost two thirds to $0.6 \%$ in 2014. Among $10^{\text {th }}$ graders, use continued to increase, reaching $2.2 \%$ in 2002, suggesting a cohort effect, but then declined by more than half to $0.8 \%$ by 2014 . Among $12^{\text {th }}$ graders, annual prevalence rose significantly to $2.4 \%$ in 2001, but then decreased to $1.5 \%$ by 2014 . Use generally has been much lower among college students and young adults, and was 0.5$0.7 \%$ annual prevalence in 2014.
- Two other substances used primarily by males to develop physique and physical strength were added to the question set in 2001. One is androstenedione, a precursor to anabolic steroids and available over the counter until early 2005. Among males, where use has tended to be more concentrated, the 2014 annual prevalence levels were $0.4 \%, 1.1 \%$, and $2.0 \%$ in grades 8,10 , and 12 , respectively. Among females, the levels were $0.4 \%, 0.7 \%$, and $0.3 \%$. As discussed in Chapter 10, the proportion of young males who report past-year use of androstenedione and/or steroids was appreciable. In 2001, when the "andro" question was introduced, annual prevalence for androstenedione and/or steroids was $8.0 \%$ for $12^{\text {th }}$-grade boys. Prevalence has fallen considerably in all three grades since then; among $12^{\text {th }}$-grade boys it was down to $3.2 \%$ in 2014.
- Creatine is another substance taken to enhance physique; it is not classified as a drug but rather as a type of protein supplement. Because we believed its use was often combined with the use of steroids and androstenedione, we introduced a question on it in 2001 and found prevalence of use to be very high. Among males, who again are the primary users, the 2014 annual prevalence for creatine was $2.9 \%, 11.0 \%$, and $18.5 \%$ in grades 8,10 , and 12. In other words, nearly one in every five $12^{\text {th }}$-grade boys used creatine in the prior year. For girls, prevalence levels were far lower at $0.5 \%, 1.3 \%$, and $2.0 \%$, respectively.
- Beginning in 1982, MTF included a set of questions about the use of nonprescription stimulants, including stay-awake pills, diet pills, and the so-called "look-alikes" (see Chapter 10 for more detailed findings). One important finding shown in that chapter (see Table 10-3) is that the use of each of these over-the-counter substances is correlated positively with the respondent's use of illicit drugs. In other words, there is a more general
propensity of some youth to use or not use psychoactive substances, regardless of the drug's legal status. ${ }^{4}$

The annual prevalence among $12^{\text {th }}$ graders of over-the-counter stay-awake pills, which usually contain caffeine as their active ingredient, more than doubled between 1982 and 1988, increasing from $12 \%$ to $26 \%$. After 1988 this statistic fell considerably reaching $3.2 \%$ by 2010, the lowest level ever reported. By 2014 it had increased only slightly to 3.5\%.

- The look-alike stimulants have also shown considerable falloff since we first measured their use in 1982. Among $12^{\text {th }}$ graders, annual prevalence decreased by half from $10.8 \%$ in 1982 to $5.2 \%$ in 1991. Their use rose only slightly during the relapse phase of the illicit drug epidemic in the 1990s, reaching 6.8\% in 1995-roughly where it stayed through 2001. Since then the use of look-alikes decreased to $1.4 \%$ by 2014, the lowest level ever reported by MTF.
- Among $12^{\text {th }}$ graders, annual prevalence levels for over-the-counter diet pills have fluctuated widely over the life of the study. Annual prevalence declined from 21\% in 1983 to $8 \%$ a decade later, increased to $15 \%$ by 2002 , then declined significantly to $4.3 \%$ by 2010, the lowest point since the questions were added in 1982. Use of this class of drugs in 2014 was up only slightly, to $6.4 \%$. Among $12^{\text {th }}$-grade girls in 2014 substantial proportions were using over-the-counter diet pills- $12.9 \%$ had tried diet pills by the end of senior year, $8.6 \%$ used them in the past year, and $4.5 \%$ used them in just the past 30 days.
- One additional type of over-the-counter drug was added to the $8^{\text {th }}$-, $10^{\text {th }}$-, and $12^{\text {th }}$-grade questionnaires in 2006-dextromethorphan, a cough suppressant found in many cough and cold medications. Respondents were asked, "How often have you taken cough or cold medicines to get high?" The proportions indicating such use in the prior 12 months were $4 \%, 5 \%$, and $7 \%$ in grades 8,10 , and 12 in 2006-not inconsequential proportions. In the following years prevalence declined overall, to $2.0 \%, 3.7 \%$, and $4.1 \%$ in 2014. In 2014 use significantly declined among $8^{\text {th }}$-grade students (from 2.9\% in 2013).


## College-Noncollege Differences in Illicit Drug Use

- For analytic purposes, "college students" are defined here as those respondents one to four years past high school who are actively enrolled full-time in a two- or four-year college in March of the year of the survey. For nearly all categories of illicit drugs, college students show lower levels of use than their age-mates not in college. However, for a few categories of drugs-including any illicit drug, marijuana, and hallucinogens-college students show annual usage levels that are about average for all high school graduates their age. (College students are about average on the index of any illicit drug use because they have average levels of marijuana use, which largely drives the index.)

[^7]- Although college-bound $12^{\text {th }}$ graders have generally had below-average levels of use on all of the illicit drugs while they were in high school, these students' eventual use of some illicit drugs attained equivalence with, or even exceeded, the levels of their age-mates who do not attend college. As MTF results have shown, this college effect of "catching up" is largely explainable in terms of differential rates of leaving the parental home after high school graduation and of getting married. College students are more likely than their age peers to have left the parental home, and they tend to defer marriage, leaving them comparatively less constrained. ${ }^{5}$
- In general, the substantial decline in illicit substance use among American college students after 1980 paralleled that of their age peers not in college. Further, for the 12-year period 1980 to 1992, all young adult high school graduates through age 28, as well as college students taken separately, showed trends that were highly parallel, for the most part, to trends among $12^{\text {th }}$ graders (see Chapter 9). However, after 1992 a number of drugs showed an increase in use among $12^{\text {th }}$ graders (as well as $8^{\text {th }}$ and $10^{\text {th }}$ graders), but not among college students and young adults for some period of time.

This divergence, combined with the fact that the upturn began first among $8^{\text {th }}$ graders (in 1992), suggests that cohort effects were emerging for illicit drug use, as discussed earlier. Indeed, as those heavier-using cohorts of $12^{\text {th }}$ graders entered the college years, we saw a lagged increase in the use of several drugs in college. For example, annual prevalence reached a low point among $12^{\text {th }}$ graders in 1992 for a number of drugs (e.g., cocaine, amphetamines, sedatives, tranquilizers, narcotics other than heroin, and any illicit drug other than marijuana) before rising thereafter. Among college students, those same drugs reached a low two years later in 1994, and then began to rise gradually. Then, in 1998, as marijuana use already was declining in secondary school, we saw a sharp increase in its use among college students. Consistent with our earlier predictions, the evidence for cohort effects resulting from generational replacement is quite substantial.

## Male-Female Differences in Substance Use

- Regarding gender differences in the three older populations ( $12^{\text {th }}$ graders, college students, and young adults), males are more likely to use most illicit drugs, and the differences tend to be largest at the higher frequency levels. For example, 2014 daily marijuana use levels among $12^{\text {th }}$ graders are $8.5 \%$ for males versus $3.3 \%$ for females.
- The $8^{\text {th }}$ - and $10^{\text {th }}$-grade samples evidence fewer and smaller gender differences in the use of drugs than do the older populations. While the level of past-year marijuana use is slightly higher for males, the level of use for any illicit drug other than marijuana generally has tended to be slightly higher for females. There are no appreciable gender differences in 2014 among $8^{\text {th }}$ graders in their use of LSD, MDMA, salvia, cocaine, crack, other cocaine, heroin, OxyContin, Vicodin, Ritalin, Adderall, methamphetamine, bath

[^8]salts, or Rohypnol. The levels of use of inhalants, alcohol, flavored alcoholic beverages, and the frequency of being drunk are slightly higher among females in $8^{\text {th }}$ grade. By $10^{\text {th }}$ grade use among boys catches up and in some cases surpasses use among girls on many of these drugs.

## TRENDS IN ALCOHOL USE

- Several findings about alcohol use in these age groups are noteworthy. First, despite the fact that it is illegal for virtually all secondary school students and most college students to purchase alcoholic beverages, they have had a substantial amount of experience with alcohol. Alcohol has been tried by $27 \%$ of $8^{\text {th }}$ graders, $49 \%$ of $10^{\text {th }}$ graders, $66 \%$ of $12^{\text {th }}$ graders, $79 \%$ of college students, and $86 \%$ of young adults (19 to 28 years old). Current use (use in past 30 days) is also widespread. Most important, perhaps, is the prevalence of occasions of heavy drinking - five or more drinks in a row at least once in the prior twoweek period—which was reported by $4 \%$ of $8^{\text {th }}$ graders, $13 \%$ of $10^{\text {th }}$ graders, $19 \%$ of $12^{\text {th }}$ graders, $35 \%$ of college students, and $34 \%$ of young adults who were surveyed in 2014.

Alcohol use did not increase as use of other illicit drugs decreased among $12^{\text {th }}$ graders from the late 1970s to the early 1990s, although it was common to hear such a "displacement hypothesis" asserted. MTF demonstrates that the opposite seems to be true. After 1980, when illicit drug use was declining, the monthly prevalence of alcohol use among $12^{\text {th }}$ graders also declined gradually, but substantially, from $72 \%$ in 1980 to $51 \%$ in 1992. Daily alcohol use declined by half over the same interval, from a peak of 6.9\% in 1979 to 3.4\% in 1992; the prevalence of drinking five or more drinks in a row during the prior two-week interval fell from $41 \%$ in 1983 to 28\% in 1993-nearly a one-third decline. When illicit drug use rose again in the 1990s, alcohol use (particularly binge drinking) rose some as well—albeit not as sharply as marijuana use. In the late 1990s, as illicit drug use leveled in secondary schools and began a gradual decline, similar trends were observed for alcohol. Therefore, long-term evidence indicates that alcohol use moves much more in concert with illicit drug use than counter to it. From 2007 through 2011, however, alcohol use continued its long term decline, reaching historic lows in the life of the study, whereas marijuana use was rising gradually. In 2012 the story became more complicated, with marijuana use still rising among college students, leveling among $12^{\text {th }}$ graders and actually declining a bit among $8^{\text {th }}$ and $10^{\text {th }}$ graders. Thirty-day alcohol use rose in all groups except the $8^{\text {th }}$ graders in 2012 (who had a significant decline of 1.7 percentage points); the increase of 4.2 percentage points among college students was significant. In 2014 alcohol use and annual marijuana use moved in concert, with both decreasing in all five populations.

## College-Noncollege Differences in Alcohol Use

- Trends in alcohol use among college students are quite different than those for $12^{\text {th }}$ graders or noncollege respondents of the same age as the college students (see Figure 9-14). From 1980 to 1993, college students showed considerably less dropoff in monthly prevalence of alcohol use ( $82 \%$ to $70 \%$ ) than did $12^{\text {th }}$ graders ( $72 \%$ to $51 \%$ ), and also less decline in occasions of heavy drinking (from $44 \%$ to $40 \%$ ) than either $12^{\text {th }}$ graders ( $41 \%$ to $28 \%$ ) or their noncollege age-mates ( $41 \%$ to $34 \%$ ). Because both the noncollege 19- to 22-year-olds and high school students were showing greater declines, the college students stood out as
having maintained a high level of episodic heavy (or binge) drinking. Since 1993, this behavior has not changed a great deal among college students-their level of binge drinking in 2014 was $35 \%$, down modestly from their 1993 (and 2008) level of $40 \%$. The level among noncollege age-mates was $31 \%$ in 2014 (and $30 \%$ in 2012)-down from $34 \%$ in 1993. The $12^{\text {th }}$ graders' level, after increasing to $32 \%$ in 1998, dropped to $25 \%$ by 2006 where it remained through 2009; it then declined to its lowest level recorded of $19 \%$ in 2014. College students continue to stand out as having a relatively high level of binge drinking, though at 35\% it is still somewhat below where it was in 1993 and 2008.

College-bound $12^{\text {th }}$ graders are consistently less likely than their noncollege-bound counterparts to report occasions of heavy drinking, yet the higher levels of such drinking among college students compared to noncollege peers indicate that these $12^{\text {th }}$ graders catch up to and pass their peers in binge drinking after high school graduation. As stated above, we have shown that this differential change after high school is largely attributable to the fact that college students are more likely to leave the parental home and less likely to get married in the four years after high school graduation than their age mates. An MTF journal article also shows that membership in a fraternity or sorority is associated with a greater than average increase in heavy episodic drinking and marijuana use in college. ${ }^{6}$

- Since 1980, college students have generally had levels of daily drinking that were slightly lower than their age peers, suggesting that they were more likely to confine their drinking to weekends, when they tend to drink a lot. The prevalence of daily drinking among the noncollege group fell from $8.3 \%$ in 1980 to $3.2 \%$ in 1994, rose to $5.8 \%$ by 2000, and dropped some to $4.1 \%$ in 2014. Daily drinking by the college group also dropped in approximately the same time period, from $6.5 \%$ in 1980 to $3.0 \%$ in 1995, then increased to $5.0 \%$ in 2002; since then it has hovered between $3.6 \%$ and $4.8 \%$. By 2014 the two groups have similar levels of daily drinking, which is a change in a long-standing difference.


## Male-Female Differences in Alcohol Use

- Given that the physiological impacts of five drinks are considerably greater for the typical young female versus the typical young male, it is not surprising that we find substantial gender differences in the prevalence of having five or more drinks in a row. Among $12^{\text {th }}$ graders, the levels of prevalence in 2014 are $17 \%$ for females versus $22 \%$ for males. This difference has generally been diminishing since MTF began; in 1975 there was a 23-percentage-point difference, versus a 5-point difference in 2014. The proportions indicating in 2014 that they have been drunk in the prior 30 days are somewhat higher at $24 \%$ and $33 \%$ for females and males, respectively.


## TRENDS IN CIGARETTE SMOKING

A number of very important findings about cigarette smoking among American adolescents and young adults have emerged during the life of the study, and we believe that one of the study's more

[^9]important contributions to the long-term health of the nation has been to document and call public attention to these trends. Despite the demonstrated health risks associated with smoking, young people have continued to establish regular cigarette habits during late adolescence in sizable proportions, and, during the first half of the 1990s, in rapidly growing proportions. In fact, since MTF began in 1975, cigarettes have consistently remained the class of abusable substances most frequently used on a daily basis by high school students.

- During most of the 1980s, when smoking levels were falling steadily among adults, we reported that smoking among adolescents was not declining. Then the situation went from bad to worse. Among $8^{\text {th }}$ and $10^{\text {th }}$ graders, levels of current (past 30-day) smoking increased by about half between 1991 (when their use was first measured) and 1996; among $12^{\text {th }}$ graders, current smoking rose by nearly one third between 1992 and 1997. MTF played an important role in bringing these disturbing increases in adolescent smoking to public attention during those years, which was the historical period in which major social action was initiated in the White House, the Food \& Drug Administration, the Congress, and eventually the state attorneys general, culminating in the 1998 Tobacco Master Settlement agreement between the tobacco industry and the states.

Fortunately—and largely as a result of that settlement, we believe-there have been some important declines in current smoking since 1996 among $8^{\text {th }}$ and $10^{\text {th }}$ graders, and since 1997 among $12^{\text {th }}$ graders. In fact, the declines have more than offset the increases observed earlier in the 1990s. In 2014, $4 \%$ of $8^{\text {th }}$ graders (down from $14 \%$ in 1991 and $21 \%$ in 1996) reported smoking one or more cigarettes in the prior 30 days-a decline of $80 \%$ from the 1996 peak level. Some 7\% of $10^{\text {th }}$ graders were current smokers in 2014 (down from 21\% in 1991 and $30 \%$ in 1996), representing a drop of nearly three quarters from the 1996 peak level. And among $201412^{\text {th }}$-grade students $14 \%$ were current smokers (versus $28 \%$ in 1991 and $37 \%$ in 1997), representing a drop of more than half from the 1997 peak. Monthly prevalence of use for all three grades is now at the lowest point in the history of the study, and significantly declined in 2014 for $10^{\text {th }}$ - and $12^{\text {th }}$-grade students.

Several of the important attitudinal changes that accompanied these declines in use ended some years ago (around 2007), leading us to conclude that further reductions in smoking levels will likely have to come from changes in the environment-for example, enacting such policies as tobacco tax increases, further reducing the places in which smoking is permitted, and providing effective quit-smoking programs. In 2009, federal taxes on tobacco products were in fact raised, which may well have contributed to the resumption of declines in use starting in 2011. Despite these very important improvements in the past decade and a half, about one seventh (14\%) of young Americans are current smokers by the time they complete high school. Other research consistently shows that smoking levels are substantially higher among those who drop out before graduating, so the estimates here, based on high school seniors, are low for the age cohort as a whole. ${ }^{7}$

[^10]Among college students, the peak level in current smoking (31\%) was not reached until 1999—reflecting a cohort effect—after which it has since declined to $13 \%$ in 2014. Young adults 19 to 28 years old have also shown a decline between 2001 (30\%) and 2014 (18\%)— a decline of four tenths including a significant decrease in 2014.

- The dangers that survey participants perceive to be associated with pack-a-day smoking differ greatly by grade level, and seem to be unrealistically low at all grade levels. Currently, about three quarters of $12^{\text {th }}$ graders (78\%) think that pack-a-day smokers run a great risk of harming themselves physically or in other ways, but only $62 \%$ of the $8^{\text {th }}$ graders think the same. All three grades showed a decrease in perceived risk between 1993 and 1995, as use was rising rapidly, but a slightly larger and offsetting increase in perceived risk occurred between 1995 and 2000, presaging the subsequent downturn in smoking. After 2000 there was a slight upward drift in perceived risk at all three grade levels, but it leveled off after 2004 in the lower grades and after 2006 at $12^{\text {th }}$ grade. After that the upward drift resumed in all three grades. In 2014 there was no consistent change in direction across the three grades.
- Disapproval of cigarette smoking was in decline for a considerable period: from 1991 through 1996 among 8th and 10th graders, and from 1992 to 1996 among 12th graders. Since then there has been a fairly steady increase in disapproval of cigarette smoking in all three grades. Undoubtedly the heavy media coverage of the tobacco issue (the settlement with the states attorneys general, the congressional debate, the congressional testimony of the tobacco executives, the eventual state settlements, etc.) had an important influence on these attitudes and beliefs. However, that coverage diminished considerably in 1998, raising the question of whether those changes in youth attitudes would continue. The removal of certain kinds of cigarette advertising and promotion, combined with nationaland state-level antismoking campaigns and subsequent significant increases in cigarette prices, may well serve to sustain and prolong these changes. Trend data support the case for long-lasting effects, with disapproval at the highest levels ever recorded by the study. In 2014 the percentage disapproving of cigarette use in 8th, 10th, and 12th grades were $88 \%, 88 \%$, and $85 \%$, respectively, percentages that include significant increases in 10th and 12th grades in 2014.


## Age- and Cohort-Related Differences in Cigarette Smoking

- Initiation of smoking occurs most often in grades 6 through 9 (i.e., at modal ages 11-12 to 14-15), although according to the 2014 eighth graders, $7 \%$ had already initiated smoking in grade 6 or earlier. The initiation rate trails off considerably by $12^{\text {th }}$ grade, although, as we have shown in our follow-up studies, a number of the light smokers in $12^{\text {th }}$ grade make the transition to heavy smoking in the first two years after high school. Analyses presented in Volume I and elsewhere have shown that cigarette smoking evidences a clear cohort effect. That is, if a group of people all born around the same time (also known as a birth cohort) establishes an unusually high level of smoking at an early age relative to other cohorts, the level is likely to remain high throughout the life cycle when compared to that of other birth cohorts at equivalent ages.
- As we reported in "Other Findings from the Study" in the 1986 Volume I in this series, some $53 \%$ of $12^{\text {th }}$ graders who were half-pack-a-day (or more) smokers in senior year in 1985 said that they had tried to quit smoking but could not. Of those who had been daily smokers in $12^{\text {th }}$ grade, nearly three quarters were still daily smokers seven to nine years later (based on the 1985 follow-up surveys of the Class of 1985), despite the fact that in high school only 5\% thought they would "definitely" be smoking five years hence. A subsequent analysis, based on the 1995 follow-up survey, showed similar results. Nearly two thirds (63\%) of those who had been daily smokers in $12^{\text {th }}$ grade were still daily smokers seven to nine years later, although in high school only $3 \%$ of them had thought they would "definitely" be smoking five years hence. Clearly, the smoking habit is established at an early age, is difficult to break for those young people who have initiated use, and young people greatly overestimate their own ability to quit. Additional data from $8^{\text {th }}$ - and $10^{\text {th }}$ grade students show us that younger adolescents are even more likely than older ones to seriously underestimate the dangers of smoking.
- MTF surveys of $8^{\text {th }}$ and $10^{\text {th }}$ graders also show that cigarettes are readily available to teens in 2014, even though perceived availability has been dropping for some years in these two grades; $47 \%$ of $8^{\text {th }}$ graders and $69 \%$ of $10^{\text {th }}$ graders say that cigarettes would be "fairly easy" or "very easy" for them to get, if they wanted them. Perceived availability was first asked of $8^{\text {th }}$ and $10^{\text {th }}$ graders in 1992; $12^{\text {th }}$ graders have not been asked this question. After 1997, perceived availability of cigarettes decreased significantly for $8^{\text {th }}$ and $10^{\text {th }}$ graders, quite likely reflecting the impact of new regulations and related enforcement efforts aimed at reducing the sale of cigarettes to minors (including the Synar amendment, which required states to pass and enforce laws prohibiting the sale and distribution of tobacco products to persons under 18). ${ }^{8}$


## College-Noncollege Differences in Cigarette Smoking

- A striking difference in smoking levels has long existed between college-bound and noncollege-bound $12^{\text {th }}$ graders. For example, in 2014, smoking a half pack or more per day is three times as prevalent among the noncollege-bound $12^{\text {th }}$ graders as among the college bound ( $6.2 \%$ vs. $1.7 \%$ ). Among respondents of college age (one to four years past high school), those not in college also show dramatically higher levels of half-pack-a-day smoking than those who are in college- $10.1 \%$ versus $2.4 \%$, respectively. Clearly, these important differences precede college attendance.
- In the first half of the 1990s, smoking rose among college students and their same-age peers, although the increases were not as steep for either group as they were among $12^{\text {th }}$ graders. But in 1998 and 1999, while smoking was declining among secondary school students at all grades, smoking continued to increase among college students and their noncollege age peers, reflecting the cohort effect from earlier, more heavily smoking classes of $12^{\text {th }}$ graders moving into the older age groups. Between 1991 and 1999, the 30day prevalence of cigarette smoking by college students rose from $23 \%$ to $31 \%$, or by about one third, and daily smoking rose from $14 \%$ to $19 \%$, also by about one third. The year 2000

[^11]showed, for the first time in several years, a decline in college student smoking; that continued with a significant decline to $23 \%$ in 2003, and another significant decline to $19 \%$ in 2006. The level in 2014 was $13 \%$. (Because of the smaller numbers of cases in the college student samples, the trend lines are not always as smooth as they are for most of the other groups discussed here.) A much more modest decline has also been observed among their noncollege peers, but only since 2001; and the difference between their smoking levels and those of $12^{\text {th }}$ graders in the same year have grown very large. A number of in-depth analyses of MTF panel data have revealed that the differences in smoking levels between those who do and do not attend college are evident by the end of $12^{\text {th }}$ grade and have their roots in earlier educational successes and failures. ${ }^{9}$

## Male-Female Differences in Cigarette Smoking

- In the 1970 s, $12^{\text {th }}$-grade females caught up to and passed $12^{\text {th }}$-grade males in levels of current smoking. Both genders then showed a decline in use followed by a long, fairly level period, with use by females consistently higher, but with the gender difference diminishing. In the early 1990s, another crossover occurred among the $12^{\text {th }}$ graders when levels rose more among males than females; thereafter, males have had consistently slightly higher levels of current smoking. In the lower grades, the genders have generally had similar smoking levels since their use was first measured in 1991.
- Among college students, females had a slightly higher probability of being daily smokers from 1980 through 1994—although this long-standing gender difference was not seen among their age peers who were not in college. However, a crossover occurred between 1994 and 2001, with college males exceeding college females in daily smoking-an echo of the crossover among $12^{\text {th }}$ graders in 1991. Since about 2001 there has been little consistent gender difference in smoking among college students.


## RACIALIETHNIC COMPARISONS

The three largest ethnic groups in the population-Whites, African Americans, and Hispanicsare examined here for $8^{\text {th }}, 10^{\text {th }}$, and $12^{\text {th }}$ graders. (Sample size limitations simply do not allow accurate characterization of smaller racial/ethnic groups unless data from a number of years are combined. Separate publications from the study have done just that. ${ }^{10}$ ) A number of interesting

[^12]findings emerge from the comparison of these three groups; the reader is referred to Chapters 4 and 5 for a full discussion and to MTF Occasional Paper $83^{11}$ for both tabular and graphic documentation of differences among these three ethnic groups across all drugs.

- African-American $12^{\text {th }}$ graders have consistently shown lower levels of use than White $12^{\text {th }}$ graders for most drugs, both licit and illicit. At the lower grade levels, where few have yet dropped out of school, African-American students also have generally had lower levels of use for many drugs, though not all. The differences in the upper grades generally have been quite large for some drugs, including inhalants, LSD specifically, hallucinogens other than LSD, ecstasy (MDMA), salvia, narcotics other than heroin, OxyContin, Vicodin, amphetamines, Adderall, sedatives (barbiturates), and tranquilizers. But, in 2014 African-American $8^{\text {th }}$ graders have levels of use roughly equivalent to White $8^{\text {th }}$ graders for a number of drugs, and for some drugs African Americans have a higher annual prevalence, marijuana in particular (13\% vs. 9\%).
- African-American students currently have a much lower 30-day prevalence of cigarette smoking than do White students ( $9 \%$ vs. $18 \%$ among $12^{\text {th }}$ graders in 2014), partly because smoking among African-American students declined from 1980 to 1992, while for White students it remained fairly stable. After 1992, smoking levels rose among both White and African-American $12^{\text {th }}$ graders, but less so among the latter. After 1996 (or 1998 in the case of $12^{\text {th }}$ graders) smoking among White students showed a sharp and continuing decline in all three grades for some years, which considerably narrowed the smoking differences between the races, despite some decline among African Americans as well; nevertheless, there remain substantial differences. Smoking levels among Hispanic students have tended to fall in between the other two groups in the upper grades, and have tracked closely to the White smoking levels at $8^{\text {th }}$ grade.
- In $12^{\text {th }}$ grade, occasions of heavy drinking are much less likely to be reported by AfricanAmerican students (11\%) than White (24\%) or Hispanic students (20\%).
- In $12^{\text {th }}$ grade, of the three racial/ethnic groups, Whites have tended to have the highest levels of use on a number of drugs, including hallucinogens, LSD specifically, hallucinogens other than LSD, salvia, narcotics other than heroin, OxyContin specifically, Vicodin specifically, amphetamines, Ritalin specifically, Adderall specifically, sedatives (barbiturates), tranquilizers, alcohol, getting drunk, cigarettes, and smokeless tobacco.

[^13]- Throughout most of the study Whites typically had the highest levels of marijuana use. However, levels of use for Whites and African-Americans began to converge in the mid2000s, when 30-day use leveled among Whites and increased among African-Americans. In 2014 prevalence was actually slightly higher among $12^{\text {th }}$-grade African-Americans (23\%) than it was among Whites (21\%). Levels of marijuana use for Hispanics have typically been similar to those for African-Americans, with the exception of higher levels of use in the early 1990s and early 2000s. In 2014, 30 -day marijuana prevalence for $12^{\text {th }}$ grade Hispanics was $23 \%$, the same as African-Americans.
- Hispanics have tended to have the highest usage rate in terms of annual prevalence in $12^{\text {th }}$ grade for a number of the most dangerous drugs, such as crack and crystal methamphetamine (ice). Whites and African-American typically have the highest level of use for heroin and heroin use with a needle.
- Hispanics have the highest levels of use for many drugs in $8^{\text {th }}$ grade, but not for as many in $12^{\text {th; }}$; their considerably higher dropout rate (compared to Whites and African Americans) may contribute to their changed relative ranking by $12^{\text {th }}$ grade.
- With regard to trends, $12^{\text {th }}$ graders in all three racial/ethnic groups exhibited declines in cocaine use from 1986 through 1992, although the decline was less steep among AfricanAmerican $12^{\text {th }}$ graders because their earlier increase in use was not as large as the increase among White and Hispanic students.
- For virtually all of the illicit drugs, the three groups have tended to trend in parallel at $12^{\text {th }}$ grade. Because White $12^{\text {th }}$ graders had the highest level of use on a number of drugsincluding amphetamines, sedatives (barbiturates), and tranquilizers-they also had the largest percentage declines; African Americans have had the lowest levels of use and, therefore, the smallest declines.

For a more detailed consideration of racial/ethnic differences in substance use, see the last sections of Chapters 4 and 5.

## DRUG USE IN EIGHTH GRADE

It is useful to focus specifically on the youngest age group in the study-the $8^{\text {th }}$ graders, most of whom are 13 or 14 years old-in part because the worrisome levels of both licit and illicit drug use that they report help illustrate the nation's urgent need to continue to address the substance abuse problems among its youth. Further, it is a well-established fact that the earlier young people
start to use drugs, both licit and illicit, the more likely they are to experience adverse outcomes. ${ }^{12,13,14}$

- Among $8^{\text {th }}$ graders in 2014, more than one in four (27\%) report having tried alcohol (more than just a few sips), and about one in nine (11\%) indicates having already been drunk at least once.
- About one seventh of $8^{\text {th }}$ graders in 2014 (14\%) has tried cigarettes, and one in twenty-five (4.0\%) reports having smoked in the prior month. Shocking to many adults is the fact that only $62 \%$ of $8^{\text {th }}$ graders recognize that there is great risk associated with smoking one or more packs of cigarettes per day. While an increasing proportion of youth will recognize the risk by $12^{\text {th }}$ grade, for many this is too late, because they will have developed a smoking habit by then.
- Among $8^{\text {th }}$ grade males in 2014, $10 \%$ tried smokeless tobacco, $4 \%$ used it in the past month, and $0.9 \%$ used it daily. Levels of use are much lower among females.
- One $8^{\text {th }}$ grader in nine (11\%) reports ever trying inhalants, and one in 43 (2.3\%) reports inhalant use in just the month prior to the 2014 survey. This is the only class of drugs for which use is substantially higher in $8^{\text {th }}$ grade than in $10^{\text {th }}$ or $12^{\text {th }}$ grade.
- Marijuana has been tried by one in every six $8^{\text {th }}$ graders (16\%) and has been used in the prior month by about one in every 15 (6.5\%). Some $1.0 \%$ use it on a daily or near-daily basis in $8^{\text {th }}$ grade.
- A surprisingly large number of $8^{\text {th }}$ graders (6.7\%) say they have tried prescription-type amphetamines without medical instruction; $2.1 \%$ say they have used them in the prior 30 days.
- For most of the other illicit drugs, relatively few $8^{\text {th }}$ graders in 2014 say they have tried them. (This is consistent with the retrospective reports from $12^{\text {th }}$ graders concerning the grades in which they first used the various drugs.) But the proportions having at least some experience with them is not inconsequential. Even prevalence as low as 3\% represents about one child in every 30 -student classroom, on average. The 2014 eighth-grade proportions reporting any lifetime experience with the other illicit drugs are: tranquilizers (2.9\%), hallucinogens other than LSD (1.5\%), ecstasy and cocaine other than crack (both 1.4\%), crack (1.2\%), LSD (1.1\%), methamphetamine and steroids (both 1.0\%), heroin (0.9\%), and Rohypnol (0.6\%).

[^14]- In total, $25 \%$ of all $8^{\text {th }}$ graders in 2014 have tried some illicit drug (including inhalants), while $10 \%$, or one in ten, have tried some illicit drug other than marijuana or inhalants. Put another way, in an average 30 -student classroom of $8^{\text {th }}$ graders, about eight have used some illicit drug other than marijuana, including inhalants; and about three have used some illicit drug other than marijuana or inhalants.
- The very large number of 8th graders who have already begun using the so-called "gateway drugs" (tobacco, alcohol, inhalants, and marijuana) suggests that a substantial number are also at risk of proceeding further to such drugs as LSD, cocaine, amphetamines, and heroin.


## SUMMARY AND CONCLUSIONS

We can summarize the findings on trends as follows: For more than a decade-from the late 1970s to the early 1990s-the use of a number of illicit drugs declined appreciably among $12^{\text {th }}$-grade students, and declined even more among American college students and young adults. These substantial improvements-which seem largely explainable in terms of changes in attitudes about drug use, beliefs about the risks of drug use, and peer norms against drug use-have some extremely important policy implications. One clear implication is that these various substanceusing behaviors among American young people are malleable-they can be changed. It has been done before. The second is that demand-side (rather than supply-side) factors appear to have been pivotal in bringing about most of those changes. The levels of marijuana availability, as reported by $12^{\text {th }}$ graders, have held fairly steady at high levels throughout the life of the study. (Moreover, among students who abstained from marijuana use, as well as among those who quit, availability and price rank very low on their lists of reasons for their not using.) And, in fact, the perceived availability of cocaine was actually rising during the beginning of the sharp decline in cocaine and crack use in the mid- to late- 1980s, which occurred when the perceived risk associated with that drug rose sharply. (See the last section of Chapter 9 for more examples and further discussion of this point.)

However, improvements should not be taken for granted. Relapse is always possible and just such a relapse in the longer term epidemic occurred during the early to mid-1990s, as the country let down its guard on many fronts. (See Chapter 8 for a more detailed discussion.)

Over the years, MTF has demonstrated that changes in perceived risk and disapproval have been important causes of change in the use of a number of drugs. These beliefs and attitudes are almost certainly influenced by the amount and nature of public attention paid to the drug issue in the historical period during which young people are growing up. A substantial decline in attention to this issue in the early 1990s very likely explains why the increases in perceived risk and disapproval among students ceased and began to backslide. News coverage of the drug issue plummeted between 1989 and 1993 (although it made a considerable comeback as surveysincluding MTF-began to document that the nation's drug problem was worsening again), and the media's pro bono placement of ads from the Partnership for a Drug-Free America also fell
considerably. (During that period, MTF $12^{\text {th }}$ graders showed a steady decline in their recalled exposure to such ads, and in the judged impact of such ads on their own drug-taking behavior. ${ }^{15}$ )

Also, the deterioration in the drug abuse situation first began among our youngest cohortsperhaps because as they were growing up they had not had the same opportunities for vicarious learning from the adverse drug experiences of people around them and people portrayed in the media-those we have called the "unfortunate role models." Clearly, there was a danger that, as the drug epidemic subsided in the 1980s and early 1990s, newer cohorts would have far less opportunity to learn through informal means about the dangers of drugs-that what we have called a generational forgetting of those risks would occur through a process of generational replacement of older, more drug-savvy cohorts with newer, more naive ones. This suggests that as drug use subsides, as it did by the early 1990s, the nation must redouble its efforts to ensure that such naive cohorts learn these lessons about the dangers of drugs through more formal means-from schools, parents, and focused messages in the media, for example-and that this more formalized prevention effort be institutionalized so that it will endure for the long term.

Clearly, for the foreseeable future, American young people will be aware of the psychoactive potential of a host of drugs and will continue to have access to them-a situation quite different from the one that preceded the late 1960s. (Awareness and access are two necessary conditions for an epidemic. ${ }^{16}$ ) That means that each new generation of young people must learn the reasons that they should not use drugs. Otherwise, their natural curiosity and desire for new experiences will lead a great many to use.

One lesson evident from the changes of the past decade or so is that the types of drugs most in favor can change substantially over time. The illegal drugs began to decline in use in the late 1990s, while prescription drugs, and even over-the-counter drugs, began to gain favor. Today a good many of the drugs having the highest prevalence levels among teens are of this type, including narcotic drugs other than heroin.

Unfortunately, a second relapse phase in America's youth epidemic of drug use may now be beginning, as indicated by the upturn in marijuana use in recent years. Perceived risk for marijuana (and for Ecstasy) has been falling, and recalled exposure to anti-drug ads has declined sharply in recent years. To a considerable degree the issue has fallen off the national screen (just as happened in the late 1980s and early 1990s), as other urgent matters (including two wars, acts of terrorism, and a major recession) have competed for attention. Indeed, this confluence of events is very reminiscent of the period preceding the first relapse-including a considerable decrease in the levels of drug use, little attention paid to the issue by the media or government, a sharp drop in funding for anti-drug prevention programs and ad campaigns, a war and a recession. While marijuana use, specifically, is now receiving more attention, that attention has been focused on the medical use and full legalization, not so much on the consequences of use.

[^15]Another lesson that derives from the MTF epidemiological data is that social influences that tend to reduce the initiation of substance use also have the potential to deter continuation by those who have already begun to use, particularly if they are not yet habitual users. Chapter 5 of Volume I shows how increased quitting rates have contributed importantly to downturns in the use of a number of drugs at different historical periods. The lesson is that primary prevention should not be the only goal of intervention programs; early-stage users may be persuaded to quit when their beliefs and attitudes regarding drugs are changed.

The following facts help to put into perspective the magnitude and variety of substance use problems that presently remain among young people in the US:

- A quarter (25\%) of today's $8^{\text {th }}$ graders have tried an illicit drug (if inhalants are included as an illicit drug), and half ( $50 \%$ ) of $12^{\text {th }}$ graders haves done so.
- By their late 20s, nearly two thirds (61\%) of today's young adults have tried an illicit drug, and about four in ten (37\%) have tried some illicit drug other than marijuana, usually in addition to marijuana. (These figures do not include inhalants.)
- Today, about one in eight young adults (12\% in 2014) has tried cocaine, and $4.6 \%$ have tried it by their senior year of high school, when they are 17 or 18 years old. One in every 56 twelfth graders (1.8\%) has tried crack. Among young adults 29-30 years of age, one in 25 (4.0\%) has tried crack.
- One in every 17 twelfth graders (5.8\%) in 2014 smokes marijuana daily. Among young adults ages 19 to 28 , the percentage is a little higher ( $6.9 \%$ ). Among those same $12^{\text {th }}$ graders in 2014, nearly one in every seven ( $14 \%$ ) has been a daily marijuana smoker at some time for at least a month, and among young adults the comparable figure is $18 \%$, about one in six.
- About one in five $12^{\text {th }}$ graders (19\%) had five or more drinks in a row on at least one occasion in the two weeks prior to the survey, and we know that such behavior tends to increase among young adults one to four years past high school-that is, in the peak college years. Indeed, $43 \%$ of all male college students report such binge drinking. (The study also has documented evidence of extreme binge drinking with $7 \%$ of $12^{\text {th }}$ graders in 2014 indicating having had 10 or more drinks in a row, and $4.1 \%$ indicating 15 or more drinks in a row, in the prior two weeks; see Table 5-5e.)
- Even with considerable declines in smoking among US adolescents since the late 1990s, about one in seven ( $14 \%$ ) of $12^{\text {th }}$ graders in 2014 currently smoke cigarettes, and one in fifteen (7\%) is already a daily smoker. In addition, we know from studying previous cohorts that many young adults increase their levels of smoking within a year or so after they leave high school.

Despite the substantial improvement in this country's drug situation in the 1980s and early 1990s, and then some further improvement beginning in the late 1990s, American secondary school students and young adults show a level of involvement with illicit drugs
that is among the highest in the world's industrialized nations. ${ }^{17}$ Even by longer term historical standards in the U.S. these levels remain extremely high, though in general they are not as high as in the peak years of the epidemic in the late 1970s. Heavy drinking also remains widespread and troublesome, though it has been declining gradually over a long period and now is at or near historical lows among teens. Of course, the continuing initiation to cigarette smoking of a fair-sized, albeit decreasing proportion of young people remains a matter of great public health concern. The declines in youth smoking have decelerated sharply in all grades in recent years although negative youth attitudes about smoking and smokers leveled off several years ago. The improvements in youth smoking overall may be nearing an end unless there is further change in environmental factors, such as cigarette prices (including taxes), advertising and promotion of cigarettes, places where smoking is permitted, and the availability of quit-smoking services. In fact, an increase in federal taxes on tobacco becoming effective in August, 2010 may help to explain why all three grades showed further declines in smoking prevalence since 2011.

E-cigarettes present a new challenge. MTF asked about e-cigarettes for the first time in 2014, and their prevalence is greater than any other tobacco product, including regular cigarettes, with $16 \%$ of $12^{\text {th }}$-grade students reporting e-cigarette use in the past 30 days. No one yet knows whether e-cigarettes prime youth for use of regular cigarettes, a topic MTF will be able to address with its longitudinal follow-up data in future years.

After a long period of improvement, there was evidence in recent years that the use of smokeless tobacco has been on the rise among adolescents. Fortunately, this rise has begun to slow. The increase in the federal tobacco tax may be responsible for this slowing, by helping to counter the tobacco industry's promotion of new products such as snus and dissolvable tobacco.

Of particular note, prevalence of abusable prescription drugs has declined in recent years, a welcome decline after prevalence of these drugs stayed stubbornly high throughout the 2000s. Among $12^{\text {th }}$-grade students annual prevalence of narcotics other than heroin has declined for three years in a row. Annual use of sedatives among $12^{\text {th }}$ graders declined (albeit non-significantly) in 2014 to the lowest level in 20 years, and the prevalence of $4.3 \%$ is four-tenths of the $7.2 \%$ peak recorded in 2005. Annual use of tranquilizers is at or near the lowest levels since 2001 (when the question was last updated) in all grades. The update to the question on amphetamines in 2013 makes long-term trends difficult to discern, although non-significant declines in past-year use were apparent for both $10^{\text {th }}$ and $12^{\text {th }}$ grades students in 2014. Perceived risk tends to be relatively low for these prescription-type drugs, which we believe is a major reason why their use had been relatively high.

[^16]- Finally, we note the seemingly unending capacity of pharmacological experts and amateurs to discover new substances with abuse potential that can be used to alter mood and consciousness (e.g., bath salts and synthetic marijuana), and of young people to discover the abuse potential of existing products (such as Robitussin and plants like salvia) and to rediscover older drugs (such as LSD and heroin). While as a society we have made significant progress on a number of fronts in the fight against drug abuse, we must remain vigilant against the opening of new fronts, as well as the reemergence of trouble on older ones. In particular, we must guard against generational forgetting in our newest cohorts of adolescents due to a lack of public attention to the issue during the time that they are growing up.

One of the dynamics that keeps the drug epidemic rolling is the emergence of new drugs whose hazards are little known. In 1999 we saw this happen with the drug ecstasy (MDMA). Other drugs like Rohypnol, ketamine, GHB, and OxyContin appeared in the 1990s and were added to the list of drugs under study. Recently, questions on use of salvia, Adderall, and Provigil were added to the questionnaires. In 2011 we added synthetic marijuana, which turned out to be the second most used illicit drug after natural marijuana, and in 2012 we added bath salts. In 2014 we added questions on e-cigarettes, which we discovered have made rapid inroads among today's adolescents. The spread of such new drugs appears to be facilitated and hastened today by young people's widespread use of web-based social networks. We expect to see a continuous flow of such new substances onto the scene, and believe that the task of rapidly documenting their emergence, establishing their adverse consequences, and quickly demystifying them will remain an important means by which policymakers, researchers, and educators deal with the continuing threats posed by such drugs. We also anticipate that there will be rediscoveries of older substances, as occurred in recent years with respect to the various psychotherapeutic prescription drugs, including tranquilizers, sedatives (barbiturates), and narcotic drugs.

The drug problem is not an enemy that can be vanquished. It is more a recurring and relapsing problem that must be contained to the extent possible on an ongoing basis. Therefore, it is a problem that requires an ongoing, dynamic response-one that takes into account the continuing generational replacement of our children, the generational forgetting of the dangers of drugs that can occur with that replacement, and the perpetual stream of new abusable substances that will threaten to lure young people into involvement with drugs.

TABLE 2－1
Trends in Lifetime Prevalence of Use of Various Drugs for 8th，10th， and 12th Graders，College Students，and Young Adults（Ages 19－28）
（Entries are percentages．）
2013－
2014


| Any Illicit Drug ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | － |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8th Grade | 18.7 | 20.6 | 22.5 | 25.7 | 28.5 | 31.2 | 29.4 | 29.0 | 28.3 | 26.8 | 26.8 | 24.5 | 22.8 | 21.5 | 21.4 | 20.9 | 19.0 | 19.6 | 19.9 | 21.4 | 20.1 | $18.5 \ddagger$ | 21.1 | 20.3 | －0．8 |
| 10th Grade | 30.6 | 29.8 | 32.8 | 37.4 | 40.9 | 45.4 | 47.3 | 44.9 | 46.2 | 45.6 | 45.6 | 44.6 | 41.4 | 39.8 | 38.2 | 36.1 | 35.6 | 34.1 | 36.0 | 37.0 | 37.7 | $36.8 \ddagger$ | 39.1 | 37.4 | －1．7 |
| 12th Grade | 44.1 | 40.7 | 42.9 | 45.6 | 48.4 | 50.8 | 54.3 | 54.1 | 54.7 | 54.0 | 53.9 | 53.0 | 51.1 | 51.1 | 50.4 | 48.2 | 46.8 | 47.4 | 46.7 | 48.2 | 49.9 | 49．1 $\ddagger$ | 49.8 | 49.1 | －0．8 |
| College Students | 50.4 | 48.8 | 45.9 | 45.5 | 45.5 | 47.4 | 49.0 | 52.9 | 53.2 | 53.7 | 53.6 | 51.8 | 53.9 | 52.2 | 52.3 | 50.6 | 50.5 | 49.5 | 51.4 | 49.1 | 49.2 | 50．5 $\ddagger$ | 53.3 | 52.4 | －0．9 |
| Young Adults | 62.2 | 60.2 | 59.6 | 57.5 | 57.4 | 56.4 | 56.7 | 57.0 | 57.4 | 58.2 | 58.1 | 59.0 | 60.2 | 60.5 | 60.4 | 59.7 | 59.8 | 59.3 | 59.3 | 58.4 | 59.1 | 58．9 $\ddagger$ | 60.0 | 62.2 | ＋2．3 |
| Any Illicit Drug other |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| than Marijuana ${ }^{\text {a，b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 14.3 | 15.6 | 16.8 | 17.5 | 18.8 | 19.2 | 17.7 | 16.9 | 16.3 | $15.8 \ddagger$ | 17.0 | 13.7 | 13.6 | 12.2 | 12.1 | 12.2 | 11.1 | 11.2 | 10.4 | 10.6 | 9.8 | $8.7 \ddagger$ | 10.4 | 10.0 | －0．5 |
| 10th Grade | 19.1 | 19.2 | 20.9 | 21.7 | 24.3 | 25.5 | 25.0 | 23.6 | 24.0 | 23．1 $\ddagger$ | 23.6 | 22.1 | 19.7 | 18.8 | 18.0 | 17.5 | 18.2 | 15.9 | 16.7 | 16.8 | 15.6 | $14.9 \ddagger$ | 16.4 | 15.9 | －0．5 |
| 12th Grade | 26.9 | 25.1 | 26.7 | 27.6 | 28.1 | 28.5 | 30.0 | 29.4 | 29.4 | 29．0ఫ | 30.7 | 29.5 | 27.7 | 28.7 | 27.4 | 26.9 | 25.5 | 24.9 | 24.0 | 24.7 | 24.9 | 24．1 $\ddagger$ | 24.8 | 22.6 | －2．2 |
| College Students | 25.8 | 26.1 | 24.3 | 22.0 | 24.5 | 22.7 | 24.4 | 24.8 | 25.5 | 25．8 $\ddagger$ | 26.3 | 26.9 | 27.6 | 28.0 | 26.5 | 26.3 | 25.3 | 22.6 | 25.6 | 24.8 | 24.3 | $23.8 \ddagger$ | 28.3 | 29.0 | ＋0．7 |
| Young Adults | 37.8 | 37.0 | 34.6 | 33.4 | 32.8 | 31.0 | 30.5 | 29.9 | 30.2 | $31.3 \ddagger$ | 31.6 | 32.8 | 33.9 | 35.2 | 34.0 | 34.8 | 34.2 | 34.7 | 32.8 | 33.3 | 33.2 | $32.8 \ddagger$ | 34.0 | 37.3 | ＋3．3 ss |
| Any Illicit Drug including |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Inhalants ${ }^{\text {a，c，d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 28.5 | 29.6 | 32.3 | 35.1 | 38.1 | 39.4 | 38.1 | 37.8 | 37.2 | 35.1 | 34.5 | 31.6 | 30.3 | 30.2 | 30.0 | 29.2 | 27.7 | 28.3 | 27.9 | 28.6 | 26.4 | 40．0 $\ddagger$ | 25.9 | 25.2 | －0．7 |
| 10th Grade | 36.1 | 36.2 | 38.7 | 42.7 | 45.9 | 49.8 | 50.9 | 49.3 | 49.9 | 49.3 | 48.8 | 47.7 | 44.9 | 43.1 | 42.1 | 40.1 | 39.8 | 38.7 | 40.0 | 40.6 | 40.8 | 25．1才 | 41.6 | 40.4 | －1．2 |
| 12th Grade | 47.6 | 44.4 | 46.6 | 49.1 | 51.5 | 53.5 | 56.3 | 56.1 | 56.3 | 57.0 | 56.0 | 54.6 | 52.8 | 53.0 | 53.5 | 51.2 | 49.1 | 49.3 | 48.4 | 49.9 | 51.8 | $50.3 \ddagger$ | 52.3 | 49.9 | －2．4 |
| College Students | 52.0 | 50.3 | 49.1 | 47.0 | 47.0 | 49.1 | 50.7 | 55.4 | 54.4 | 54.6 | 53.1 | 52.3 | 54.1 | 52.9 | 53.9 | 53.3 | 52.5 | 51.0 | 51.1 | 50.0 | 49.7 | 52．0才 | 53.3 | 51.8 | －1．5 |
| Young Adults | 63.4 | 61.2 | 61.2 | 58.5 | 59.0 | 58.2 | 58.4 | 58.5 | 58.5 | 59.5 | 59.0 | 59.6 | 60.6 | 62.5 | 61.4 | 61.2 | 61.2 | 60.2 | 59.3 | 59.3 | 59.5 | $59.5 \ddagger$ | 62.2 | 60.6 | －1．6 |
| Marijuana／Hashish |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 10.2 | 11.2 | 12.6 | 16.7 | 19.9 | 23.1 | 22.6 | 22.2 | 22.0 | 20.3 | 20.4 | 19.2 | 17.5 | 16.3 | 16.5 | 15.7 | 14.2 | 14.6 | 15.7 | 17.3 | 16.4 | 15.2 | 16.5 | 15.6 | －0．9 |
| 10th Grade | 23.4 | 21.4 | 24.4 | 30.4 | 34.1 | 39.8 | 42.3 | 39.6 | 40.9 | 40.3 | 40.1 | 38.7 | 36.4 | 35.1 | 34.1 | 31.8 | 31.0 | 29.9 | 32.3 | 33.4 | 34.5 | 33.8 | 35.8 | 33.7 | －2．2 |
| 12th Grade | 36.7 | 32.6 | 35.3 | 38.2 | 41.7 | 44.9 | 49.6 | 49.1 | 49.7 | 48.8 | 49.0 | 47.8 | 46.1 | 45.7 | 44.8 | 42.3 | 41.8 | 42.6 | 42.0 | 43.8 | 45.5 | 45.2 | 45.5 | 44.4 | －1．1 |
| College Students | 46.3 | 44.1 | 42.0 | 42.2 | 41.7 | 45.1 | 46.1 | 49.9 | 50.8 | 51.2 | 51.0 | 49.5 | 50.7 | 49.1 | 49.1 | 46.9 | 47.5 | 46.8 | 47.5 | 46.8 | 46.6 | 49.1 | 47.7 | 48.5 | ＋0．8 |
| Young Adults | 58.6 | 56.4 | 55.9 | 53.7 | 53.6 | 53.4 | 53.8 | 54.4 | 54.6 | 55.1 | 55.7 | 56.8 | 57.2 | 57.4 | 57.0 | 56.7 | 56.7 | 55.9 | 56.0 | 55.9 | 56.3 | 56.5 | 57.1 | 57.5 | ＋0．4 |
| Inhalants ${ }^{\text {c，d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 17.6 | 17.4 | 19.4 | 19.9 | 21.6 | 21.2 | 21.0 | 20.5 | 19.7 | 17.9 | 17.1 | 15.2 | 15.8 | 17.3 | 17.1 | 16.1 | 15.6 | 15.7 | 14.9 | 14.5 | 13.1 | 11.8 | 10.8 | 10.8 | 0.0 |
| 10th Grade | 15.7 | 16.6 | 17.5 | 18.0 | 19.0 | 19.3 | 18.3 | 18.3 | 17.0 | 16.6 | 15.2 | 13.5 | 12.7 | 12.4 | 13.1 | 13.3 | 13.6 | 12.8 | 12.3 | 12.0 | 10.1 | 9.9 | 8.7 | 8.7 | ＋0．1 |
| 12th Grade | 17.6 | 16.6 | 17.4 | 17.7 | 17.4 | 16.6 | 16.1 | 15.2 | 15.4 | 14.2 | 13.0 | 11.7 | 11.2 | 10.9 | 11.4 | 11.1 | 10.5 | 9.9 | 9.5 | 9.0 | 8.1 | 7.9 | 6.9 | 6.5 | －0．4 |
| College Students | 14.4 | 14.2 | 14.8 | 12.0 | 13.8 | 11.4 | 12.4 | 12.8 | 12.4 | 12.9 | 9.6 | 7.7 | 9.7 | 8.5 | 7.1 | 7.4 | 6.3 | 4.9 | 6.9 | 5.5 | 3.7 | 5.7 | 4.3 | 3.5 | －0．7 |
| Young Adults | 13.4 | 13.5 | 14.1 | 13.2 | 14.5 | 14.1 | 14.1 | 14.2 | 14.2 | 14.3 | 12.8 | 12.4 | 12.2 | 11.6 | 10.3 | 10.9 | 9.1 | 9.5 | 8.9 | 7.9 | 7.2 | 7.2 | 6.5 | 6.7 | ＋0．2 |
| Nitrites ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － |
| 10th Grade | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － |
| 12th Grade | 1.6 | 1.5 | 1.4 | 1.7 | 1.5 | 1.8 | 2.0 | 2.7 | 1.7 | 0.8 | 1.9 | 1.5 | 1.6 | 1.3 | 1.1 | 1.2 | 1.2 | 0.6 | 1.1 | － | － | － | － | － | － |
| College Students | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － |
| Young Adults | 1.4 | 1.2 | 1.3 | 1.0 | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － | － |
| Hallucinogens ${ }^{\text {b，f }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 3.2 | 3.8 | 3.9 | 4.3 | 5.2 | 5.9 | 5.4 | 4.9 | 4.8 | $4.6 \ddagger$ | 5.2 | 4.1 | 4.0 | 3.5 | 3.8 | 3.4 | 3.1 | 3.3 | 3.0 | 3.4 | 3.3 | 2.8 | 2.5 | 2.0 | －0．5 |
| 10th Grade | 6.1 | 6.4 | 6.8 | 8.1 | 9.3 | 10.5 | 10.5 | 9.8 | 9.7 | 8．9才 | 8.9 | 7.8 | 6.9 | 6.4 | 5.8 | 6.1 | 6.4 | 5.5 | 6.1 | 6.1 | 6.0 | 5.2 | 5.4 | 5.0 | －0．4 |
| 12th Grade | 9.6 | 9.2 | 10.9 | 11.4 | 12.7 | 14.0 | 15.1 | 14.1 | 13.7 | $13.0 \ddagger$ | 14.7 | 12.0 | 10.6 | 9.7 | 8.8 | 8.3 | 8.4 | 8.7 | 7.4 | 8.6 | 8.3 | 7.5 | 7.6 | 6.3 | －1．3 |
| College Students | 11.3 | 12.0 | 11.8 | 10.0 | 13.0 | 12.6 | 13.8 | 15.2 | 14.8 | 14．4 $\ddagger$ | 14.8 | 13.6 | 14.5 | 12.0 | 11.0 | 10.6 | 9.1 | 8.5 | 8.0 | 7.8 | 7.4 | 7.6 | 7.8 | 7.6 | －0．2 |
| Young Adults | 15.7 | 15.7 | 15.4 | 15.4 | 16.1 | 16.4 | 16.8 | 17.4 | 18.0 | 18．4 $\ddagger$ | 18.3 | 19.6 | 19.7 | 19.3 | 17.6 | 17.2 | 16.0 | 14.8 | 14.2 | 13.9 | 13.0 | 12.2 | 12.4 | 11.9 | －0．5 |

TABLE 2-1 (cont.)
Trends in Lifetime Prevalence of Use of Various Drugs for 8th, 10th,
and 12th Graders, College Students, and Young Adults (Ages 19-28)
(Entries are percentages.)
2013-
2014


(Table continued on next page.)

TABLE 2-1 (cont.)
Trends in Lifetime Prevalence of Use of Various Drugs for 8th, 10th,
and 12th Graders, College Students, and Young Adults (Ages 19-28)
(Entries are percentages.)
2013-
2014

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 1.2 | 1.4 | 1.4 | 2.0 | 2.3 | 2.4 | 2.1 | 2.3 | 2.3 | 1.9 | 1.7 | 1.6 | 1.6 | 1.6 | 1.5 | 1.4 | 1.3 | 1.4 | 1.3 | 1.3 | 1.2 | 0.8 | 1.0 | 0.9 | 0.0 |
| 10th Grade | 1.2 | 1.2 | 1.3 | 1.5 | 1.7 | 2.1 | 2.1 | 2.3 | 2.3 | 2.2 | 1.7 | 1.8 | 1.5 | 1.5 | 1.5 | 1.4 | 1.5 | 1.2 | 1.5 | 1.3 | 1.2 | 1.1 | 1.0 | 0.9 | -0.2 |
| 12th Grade | 0.9 | 1.2 | 1.1 | 1.2 | 1.6 | 1.8 | 2.1 | 2.0 | 2.0 | 2.4 | 1.8 | 1.7 | 1.5 | 1.5 | 1.5 | 1.4 | 1.5 | 1.3 | 1.2 | 1.6 | 1.4 | 1.1 | 1.0 | 1.0 | -0.1 |
| College Students | 0.5 | 0.5 | 0.6 | 0.1 | 0.6 | 0.7 | 0.9 | 1.7 | 0.9 | 1.7 | 1.2 | 1.0 | 1.0 | 0.9 | 0.5 | 0.7 | 0.5 | 0.7 | 0.8 | 0.7 | 0.6 | 0.5 | 0.4 | 0.3 | -0.2 |
| Young Adults | 0.9 | 0.9 | 0.9 | 0.8 | 1.1 | 1.3 | 1.3 | 1.6 | 1.7 | 1.8 | 2.0 | 1.8 | 1.9 | 1.9 | 1.7 | 1.9 | 1.6 | 1.9 | 1.6 | 1.8 | 1.7 | 1.6 | 1.6 | 1.4 | -0.1 |
| With a Needle ${ }^{\text {' }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | 1.5 | 1.6 | 1.3 | 1.4 | 1.6 | 1.1 | 1.2 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 | 0.6 | 0.6 | 0.8 | +0.2 |
| 10th Grade | - | - | - | - | 1.0 | 1.1 | 1.1 | 1.2 | 1.3 | 1.0 | 0.8 | 1.0 | 0.9 | 0.8 | 0.8 | 0.9 | 0.9 | 0.7 | 0.9 | 0.8 | 0.8 | 0.7 | 0.7 | 0.6 | -0.1 |
| 12th Grade | - | - | - | - | 0.7 | 0.8 | 0.9 | 0.8 | 0.9 | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 | 0.9 | 0.8 | 0.7 | 0.7 | 0.6 | 1.1 | 0.9 | 0.7 | 0.7 | 0.8 | +0.1 |
| College Students | - | - | - | - | 0.4 | 0.1 | 0.2 | 0.5 | 0.8 | 0.7 | 0.2 | 0.3 | 0.1 | 0.1 | 0.3 | 0.3 | 0.1 | 0.0 | 0.1 | 0.1 | 0.3 | 0.2 | 0.1 | 0.0 | -0.1 |
| Young Adults | - | - | - | - | 0.4 | 0.4 | 0.3 | 0.4 | 0.6 | 0.4 | 0.6 | 0.4 | 0.5 | 0.4 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.8 | 0.7 | 0.5 | 1.0 | 0.7 | -0.3 |
| Without a Needle ${ }^{\text {' }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | 1.5 | 1.6 | 1.4 | 1.5 | 1.4 | 1.3 | 1.1 | 1.0 | 1.1 | 1.0 | 0.9 | 0.9 | 0.7 | 0.9 | 0.8 | 0.7 | 0.7 | 0.5 | 0.5 | 0.4 | -0.1 |
| 10th Grade | - | - | - | - | 1.1 | 1.7 | 1.7 | 1.7 | 1.6 | 1.7 | 1.3 | 1.3 | 1.0 | 1.1 | 1.1 | 1.0 | 1.1 | 0.8 | 1.0 | 0.9 | 0.8 | 0.8 | 0.7 | 0.5 | -0.1 |
| 12th Grade | - | - | - | - | 1.4 | 1.7 | 2.1 | 1.6 | 1.8 | 2.4 | 1.5 | 1.6 | 1.8 | 1.4 | 1.3 | 1.1 | 1.4 | 1.1 | 0.9 | 1.4 | 1.3 | 0.8 | 0.9 | 0.7 | -0.2 |
| College Students | - | - | - | - | 0.5 | 1.0 | 1.2 | 2.1 | 1.0 | 2.5 | 1.3 | 1.2 | 1.1 | 1.0 | 0.3 | 0.8 | 0.4 | 0.7 | 0.4 | 0.4 | 0.4 | 0.5 | 0.8 | 0.1 | -0.6 |
| Young Adults | - | - | - | - | 0.9 | 1.3 | 1.5 | 1.7 | 1.9 | 2.1 | 2.1 | 1.8 | 2.2 | 2.1 | 1.8 | 2.4 | 1.9 | 2.1 | 1.9 | 1.8 | 1.6 | 1.7 | 1.8 | 1.2 | -0.6 |
| Narcotics other than Heroin ${ }^{m, n}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | 6.6 | 6.1 | 6.4 | 6.6 | 7.2 | 8.2 | 9.7 | 9.8 | 10.2 | 10.6 | $9.9 \ddagger$ | 13.5 | 13.2 | 13.5 | 12.8 | 13.4 | 13.1 | 13.2 | 13.2 | 13.0 | 13.0 | 12.2 | 11.1 | 9.5 | -1.6 ss |
| College Students | 7.3 | 7.3 | 6.2 | 5.1 | 7.2 | 5.7 | 8.2 | 8.7 | 8.7 | 8.9 | $11.0 \ddagger$ | 12.2 | 14.2 | 13.8 | 14.4 | 14.6 | 14.1 | 12.4 | 14.0 | 12.2 | 12.4 | 10.3 | 10.8 | 9.9 | -0.9 |
| Young Adults | 9.3 | 8.9 | 8.1 | 8.2 | 9.0 | 8.3 | 9.2 | 9.1 | 9.5 | 10.0 | $11.5 \ddagger$ | 13.9 | 16.8 | 17.6 | 17.8 | 18.7 | 18.8 | 19.5 | 18.5 | 19.0 | 18.2 | 17.6 | 17.4 | 16.3 | -1.1 |
| Amphetamines ${ }^{\mathrm{m}, \mathrm{o}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 10.5 | 10.8 | 11.8 | 12.3 | 13.1 | 13.5 | 12.3 | 11.3 | 10.7 | 9.9 | 10.2 | 8.7 | 8.4 | 7.5 | 7.4 | 7.3 | 6.5 | 6.8 | 6.0 | 5.7 | 5.2 | $4.5 \ddagger$ | 6.9 | 6.7 | -0.2 |
| 10th Grade | 13.2 | 13.1 | 14.9 | 15.1 | 17.4 | 17.7 | 17.0 | 16.0 | 15.7 | 15.7 | 16.0 | 14.9 | 13.1 | 11.9 | 11.1 | 11.2 | 11.1 | 9.0 | 10.3 | 10.6 | 9.0 | 8.9才 | 11.2 | 10.6 | -0.6 |
| 12th Grade | 15.4 | 13.9 | 15.1 | 15.7 | 15.3 | 15.3 | 16.5 | 16.4 | 16.3 | 15.6 | 16.2 | 16.8 | 14.4 | 15.0 | 13.1 | 12.4 | 11.4 | 10.5 | 9.9 | 11.1 | 12.2 | $12.0 \ddagger$ | 13.8 | 12.1 | -1.7 |
| College Students | 13.0 | 10.5 | 10.1 | 9.2 | 10.7 | 9.5 | 10.6 | 10.6 | 11.9 | 12.3 | 12.4 | 11.9 | 12.3 | 12.7 | 12.3 | 10.7 | 11.2 | 9.1 | 11.8 | 12.1 | 13.4 | $14.4 \ddagger$ | 16.1 | 15.0 | -1.2 |
| Young Adults | 22.4 | 20.2 | 18.7 | 17.1 | 16.6 | 15.3 | 14.6 | 14.3 | 14.1 | 15.0 | 15.0 | 14.8 | 15.2 | 15.9 | 14.6 | 15.6 | 15.3 | 14.6 | 14.9 | 16.1 | 16.5 | $17.4 \ddagger$ | 18.8 | 18.7 | -0.1 |
| Methamphetamine ${ }^{\text {p,q }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | 4.5 | 4.2 | 4.4 | 3.5 | 3.9 | 2.5 | 3.1 | 2.7 | 1.8 | 2.3 | 1.6 | 1.8 | 1.3 | 1.3 | 1.4 | 1.0 | -0.4 |
| 10th Grade | - | - | - | - | - | - | - | - | 7.3 | 6.9 | 6.4 | 6.1 | 5.2 | 5.3 | 4.1 | 3.2 | 2.8 | 2.4 | 2.8 | 2.5 | 2.1 | 1.8 | 1.6 | 1.4 | -0.2 |
| 12th Grade | - | - | - | - | - | - | - | - | 8.2 | 7.9 | 6.9 | 6.7 | 6.2 | 6.2 | 4.5 | 4.4 | 3.0 | 2.8 | 2.4 | 2.3 | 2.1 | 1.7 | 1.5 | 1.9 | +0.4 |
| College Students | - | - | - | - | - | - | - | - | 7.1 | 5.1 | 5.3 | 5.0 | 5.8 | 5.2 | 4.1 | 2.9 | 1.9 | 1.9 | 1.0 | 1.1 | 0.6 | 0.3 | 0.9 | 0.7 | -0.3 |
| Young Adults | - | - | - | - | - | - | - | - | 8.8 | 9.3 | 9.0 | 9.1 | 8.9 | 9.0 | 8.3 | 7.3 | 6.7 | 6.3 | 4.7 | 4.3 | 3.2 | 3.5 | 3.1 | 2.3 | -0.8 |
| Crystal Methamphetamine (Ice) ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | 3.3 | 2.9 | 3.1 | 3.4 | 3.9 | 4.4 | 4.4 | 5.3 | 4.8 | 4.0 | 4.1 | 4.7 | 3.9 | 4.0 | 4.0 | 3.4 | 3.4 | 2.8 | 2.1 | 1.8 | 2.1 | 1.7 | 2.0 | 1.3 | -0.6 |
| College Students | 1.3 | 0.6 | 1.6 | 1.3 | 1.0 | 0.8 | 1.6 | 2.2 | 2.8 | 1.3 | 2.3 | 2.0 | 2.9 | 2.2 | 2.4 | 1.7 | 1.3 | 1.1 | 0.7 | 0.8 | 0.2 | 0.6 | 0.0 | 0.3 | +0.3 |
| Young Adults | 2.9 | 2.2 | 2.7 | 2.5 | 2.1 | 3.1 | 2.5 | 3.4 | 3.3 | 3.9 | 4.0 | 4.1 | 4.7 | 4.7 | 4.4 | 4.7 | 3.7 | 3.6 | 3.4 | 2.8 | 3.1 | 2.6 | 2.8 | 1.7 | -1.1 s |

(Table continued on next page.)

TABLE 2-1 (cont.)
Trends in Lifetime Prevalence of Use of Various Drugs for 8th, 10th,
and 12th Graders, College Students, and Young Adults (Ages 19-28)
(Entries are percentages.)
2013-
2014
$1991 \underline{1992} \underline{1993} 1994 \underline{1995} 1996 \underline{1997} \underline{1998} \underline{1999} \underline{2000} \underline{2001} \underline{2002} \underline{2003} \underline{2004} \underline{2005} \underline{2006} \underline{2007} \underline{2008} \underline{2009} \underline{2010} \underline{2011} \underline{2012} \underline{2013} \underline{2014} \underline{c h a n g e}$

| Sedatives (Barbiturates) ${ }^{m, r}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | 6.2 | 5.5 | 6.3 | 7.0 | 7.4 | 7.6 | 8.1 | 8.7 | 8.9 | 9.2 | 8.7 | 9.5 | $8.8 \ddagger$ | 9.9 | 10.5 | 10.2 | 9.3 | 8.5 | 8.2 | 7.5 | 7.0 | 6.9 | 7.5 | 6.8 | -0.6 |
| College Students | 3.5 | 3.8 | 3.5 | 3.2 | 4.0 | 4.6 | 5.2 | 5.7 | 6.7 | 6.9 | 6.0 | 5.9 | 5.7 | 7.2 | 8.5 | 6.3 | 5.9 | 6.4 | 6.0 | 5.3 | 3.6 | $3.5 \ddagger$ | 5.4 | 5.9 | +0.6 |
| Young Adults | 8.2 | 7.4 | 6.5 | 6.4 | 6.7 | 6.6 | 6.5 | 6.9 | 7.4 | 8.1 | 7.8 | 8.0 | 8.7 | 9.7 | 10.0 | 9.5 | 9.8 | 10.6 | 9.5 | 8.6 | 7.9 | 7.2 $\ddagger$ | 9.5 | 9.0 | -0.4 |
| Methaqualone ${ }^{\mathrm{m}, \mathrm{s}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | 1.3 | 1.6 | 0.8 | 1.4 | 1.2 | 2.0 | 1.7 | 1.6 | 1.8 | 0.8 | 1.1 | 1.5 | 1.0 | 1.3 | 1.3 | 1.2 | 1.0 | 0.8 | 0.7 | 0.4 | 0.6 | 0.8 | - | - | - |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tranquilizers ${ }^{\text {b,m }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 3.8 | 4.1 | 4.4 | 4.6 | 4.5 | 5.3 | 4.8 | 4.6 | 4.4 | $4.4 \ddagger$ | 5.0 | 4.3 | 4.4 | 4.0 | 4.1 | 4.3 | 3.9 | 3.9 | 3.9 | 4.4 | 3.4 | 3.0 | 2.9 | 2.9 | 0.0 |
| 10th Grade | 5.8 | 5.9 | 5.7 | 5.4 | 6.0 | 7.1 | 7.3 | 7.8 | 7.9 | $8.0 \ddagger$ | 9.2 | 8.8 | 7.8 | 7.3 | 7.1 | 7.2 | 7.4 | 6.8 | 7.0 | 7.3 | 6.8 | 6.3 | 5.5 | 5.8 | +0.3 |
| 12th Grade | 7.2 | 6.0 | 6.4 | 6.6 | 7.1 | 7.2 | 7.8 | 8.5 | 9.3 | 8.9 $\ddagger$ | 10.3 | 11.4 | 10.2 | 10.6 | 9.9 | 10.3 | 9.5 | 8.9 | 9.3 | 8.5 | 8.7 | 8.5 | 7.7 | 7.4 | -0.3 |
| College Students | 6.8 | 6.9 | 6.3 | 4.4 | 5.4 | 5.3 | 6.9 | 7.7 | 8.2 | 8.8 $\ddagger$ | 9.7 | 10.7 | 11.0 | 10.6 | 11.9 | 10.0 | 9.1 | 8.6 | 9.2 | 8.1 | 7.1 | 6.4 | 7.8 | 6.9 | -0.9 |
| Young Adults | 11.8 | 11.3 | 10.5 | 9.9 | 9.7 | 9.3 | 8.6 | 9.6 | 9.6 | 10.5 $\ddagger$ | 11.9 | 13.4 | 13.8 | 14.9 | 14.5 | 15.0 | 14.5 | 15.8 | 13.8 | 14.3 | 13.8 | 13.3 | 13.2 | 12.5 | -0.7 |
| Any Prescription Drug |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 24.0 | 23.9 | 22.2 | 21.5 | 20.9 | 21.6 | 21.7 | $21.2 \ddagger$ | 22.2 | 19.9 | -2.3 s |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rohypnol ${ }^{\text {u }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | 1.5 | 1.1 | 1.4 | 1.3 | 1.0 | 1.1 | 0.8 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 0.7 | 0.7 | 0.9 | 2.0 | 1.0 | 0.7 | 0.6 | -0.1 |
| 10th Grade | - | - | - | - | - | 1.5 | 1.7 | 2.0 | 1.8 | 1.3 | 1.5 | 1.3 | 1.0 | 1.2 | 1.0 | 0.8 | 1.3 | 0.9 | 0.7 | 1.4 | 1.2 | 0.8 | 1.1 | 1.0 | -0.1 |
| 12th Grade | - | - | - | - | - | 1.2 | 1.8 | 3.0 | 2.0 | 1.5 | 1.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Alcohol ${ }^{\text {V }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Any Use |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 70.1 | 69.3才 | 55.7 | 55.8 | 54.5 | 55.3 | 53.8 | 52.5 | 52.1 | 51.7 | 50.5 | 47.0 | 45.6 | 43.9 | 41.0 | 40.5 | 38.9 | 38.9 | 36.6 | 35.8 | 33.1 | 29.5 | 27.8 | 26.8 | -1.0 |
| 10th Grade | 83.8 | 82.3¥ | 71.6 | 71.1 | 70.5 | 71.8 | 72.0 | 69.8 | 70.6 | 71.4 | 70.1 | 66.9 | 66.0 | 64.2 | 63.2 | 61.5 | 61.7 | 58.3 | 59.1 | 58.2 | 56.0 | 54.0 | 52.1 | 49.3 | -2.8 s |
| 12th Grade | 88.0 | 87.5 $\ddagger$ | 80.0 | 80.4 | 80.7 | 79.2 | 81.7 | 81.4 | 80.0 | 80.3 | 79.7 | 78.4 | 76.6 | 76.8 | 75.1 | 72.7 | 72.2 | 71.9 | 72.3 | 71.0 | 70.0 | 69.4 | 68.2 | 66.0 | -2.2 s |
| College Students | 93.6 | 91.8 | 89.3 | 88.2 | 88.5 | 88.4 | 87.3 | 88.5 | 88.0 | 86.6 | 86.1 | 86.0 | 86.2 | 84.6 | 86.6 | 84.7 | 83.1 | 85.3 | 82.6 | 82.3 | 80.5 | 81.0 | 78.0 | 79.4 | +1.4 |
| Young Adults | 94.1 | 93.4 | 92.1 | 91.2 | 91.6 | 91.2 | 90.7 | 90.6 | 90.2 | 90.7 | 89.9 | 90.2 | 89.3 | 89.4 | 89.1 | 88.9 | 87.9 | 88.4 | 87.9 | 87.5 | 87.4 | 86.5 | 86.2 | 86.3 | +0.2 |
| Been Drunk ${ }^{\text {w }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 26.7 | 26.8 | 26.4 | 25.9 | 25.3 | 26.8 | 25.2 | 24.8 | 24.8 | 25.1 | 23.4 | 21.3 | 20.3 | 19.9 | 19.5 | 19.5 | 17.9 | 18.0 | 17.4 | 16.3 | 14.8 | 12.8 | 12.2 | 10.8 | -1.4 s |
| 10th Grade | 50.0 | 47.7 | 47.9 | 47.2 | 46.9 | 48.5 | 49.4 | 46.7 | 48.9 | 49.3 | 48.2 | 44.0 | 42.4 | 42.3 | 42.1 | 41.4 | 41.2 | 37.2 | 38.6 | 36.9 | 35.9 | 34.6 | 33.5 | 30.2 | -3.4 ss |
| 12th Grade | 65.4 | 63.4 | 62.5 | 62.9 | 63.2 | 61.8 | 64.2 | 62.4 | 62.3 | 62.3 | 63.9 | 61.6 | 58.1 | 60.3 | 57.5 | 56.4 | 55.1 | 54.7 | 56.5 | 54.1 | 51.0 | 54.2 | 52.3 | 49.8 | -2.5 |
| College Students | 79.6 | 76.8 | 76.4 | 74.4 | 76.6 | 76.2 | 77.0 | 76.8 | 75.1 | 74.7 | 76.1 | 75.1 | 74.9 | 73.4 | 72.9 | 73.1 | 71.6 | 72.5 | 69.1 | 70.5 | 67.9 | 70.0 | 66.5 | 68.8 | +2.3 |
| Young Adults | 82.9 | 81.1 | 81.4 | 80.7 | 82.1 | 80.7 | 81.4 | 79.8 | 81.6 | 80.4 | 81.1 | 81.2 | 80.9 | 80.1 | 79.9 | 80.9 | 80.1 | 80.1 | 78.2 | 79.0 | 78.9 | 78.9 | 77.4 | 78.3 | +0.9 |

Flavored Alcoholic
Beverages ${ }^{9 . p}$

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | 37.9 | 35.5 | 35.5 | 34.0 | 32.8 | 29.4 | 30.0 | 27.0 | 23.5 | 21.9 | 19.2 | -2.7 | s |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | 58.6 | 58.8 | 58.1 | 55.7 | 53.5 | 51.4 | 51.3 | 48.4 | 46.7 | 44.9 | 42.3 | -2.6 |  |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | 71.0 | 73.6 | 69.9 | 68.4 | 65.5 | 67.4 | 62.6 | 62.4 | 60.5 | 58.9 | 57.5 | -1.3 |  |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | 79.0 | 84.5 | 80.9 | 80.6 | 78.6 | 78.1 | 77.4 | 76.7 | 76.6 | 67.5 | 72.7 | +5.2 |  |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | 83.2 | 84.6 | 84.4 | 84.0 | 82.6 | 83.5 | 81.4 | 82.2 | 82.4 | 80.9 | 80.6 | -0.3 |  |

[^17]TABLE 2-1 (cont.)
Trends in Lifetime Prevalence of Use of Various Drugs for 8th, 10th,
and 12th Graders, College Students, and Young Adults (Ages 19-28)
(Entries are percentages.)
2013-
2014


| Cigarettes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Any Use |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 44.0 | 45.2 | 45.3 | 46.1 | 46.4 | 49.2 | 47.3 | 45.7 | 44.1 | 40.5 | 36.6 | 31.4 | 28.4 | 27.9 | 25.9 | 24.6 | 22.1 | 20.5 | 20.1 | 20.0 | 18.4 | 15.5 | 14.8 | 13.5 | -1.3 |
| 10th Grade | 55.1 | 53.5 | 56.3 | 56.9 | 57.6 | 61.2 | 60.2 | 57.7 | 57.6 | 55.1 | 52.8 | 47.4 | 43.0 | 40.7 | 38.9 | 36.1 | 34.6 | 31.7 | 32.7 | 33.0 | 30.4 | 27.7 | 25.7 | 22.6 | -3.1 ss |
| 12th Grade | 63.1 | 61.8 | 61.9 | 62.0 | 64.2 | 63.5 | 65.4 | 65.3 | 64.6 | 62.5 | 61.0 | 57.2 | 53.7 | 52.8 | 50.0 | 47.1 | 46.2 | 44.7 | 43.6 | 42.2 | 40.0 | 39.5 | 38.1 | 34.4 | -3.7 ss |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Smokeless Tobacco ${ }^{\text {x }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 22.2 | 20.7 | 18.7 | 19.9 | 20.0 | 20.4 | 16.8 | 15.0 | 14.4 | 12.8 | 11.7 | 11.2 | 11.3 | 11.0 | 10.1 | 10.2 | 9.1 | 9.8 | 9.6 | 9.9 | 9.7 | 8.1 | 7.9 | 8.0 | +0.1 |
| 10th Grade | 28.2 | 26.6 | 28.1 | 29.2 | 27.6 | 27.4 | 26.3 | 22.7 | 20.4 | 19.1 | 19.5 | 16.9 | 14.6 | 13.8 | 14.5 | 15.0 | 15.1 | 12.2 | 15.2 | 16.8 | 15.6 | 15.4 | 14.0 | 13.6 | -0.4 |
| 12th Grade | - | 32.4 | 31.0 | 30.7 | 30.9 | 29.8 | 25.3 | 26.2 | 23.4 | 23.1 | 19.7 | 18.3 | 17.0 | 16.7 | 17.5 | 15.2 | 15.1 | 15.6 | 16.3 | 17.6 | 16.9 | 17.4 | 17.2 | 15.1 | -2.1 |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Steroids ${ }^{\text {y, }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 1.9 | 1.7 | 1.6 | 2.0 | 2.0 | 1.8 | 1.8 | 2.3 | 2.7 | 3.0 | 2.8 | 2.5 | 2.5 | 1.9 | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 | 1.1 | 1.2 | 1.2 | 1.1 | 1.0 | -0.1 |
| 10th Grade | 1.8 | 1.7 | 1.7 | 1.8 | 2.0 | 1.8 | 2.0 | 2.0 | 2.7 | 3.5 | 3.5 | 3.5 | 3.0 | 2.4 | 2.0 | 1.8 | 1.8 | 1.4 | 1.3 | 1.6 | 1.4 | 1.3 | 1.3 | 1.4 | +0.2 |
| 12th Grade | 2.1 | 2.1 | 2.0 | 2.4 | 2.3 | 1.9 | 2.4 | 2.7 | 2.9 | 2.5 | 3.7 | 4.0 | 3.5 | 3.4 | 2.6 | 2.7 | 2.2 | 2.2 | 2.2 | 2.0 | 1.8 | 1.8 | 2.1 | 1.9 | -0.2 |
| College Students | 1.4 | 1.7 | 1.9 | 0.5 | 0.8 | 0.6 | 1.6 | 0.9 | 1.3 | 0.6 | 1.5 | 1.2 | 1.2 | 1.6 | 1.0 | 1.9 | 0.6 | 1.6 | 1.3 | 0.7 | 1.1 | 0.4 | 0.8 | 0.9 | +0.1 |
| Young Adults | 1.7 | 1.9 | 1.5 | 1.3 | 1.5 | 1.5 | 1.4 | 1.4 | 1.9 | 1.4 | 1.4 | 1.6 | 1.8 | 1.9 | 1.8 | 1.8 | 1.7 | 1.8 | 1.8 | 1.7 | 1.3 | 1.7 | 1.2 | 1.7 | +0.5 |

See footnotes following Table 2-4

TABLE 2-2

## Trends in Annual Prevalence of Use of Various Drugs for 8th, 10th, and 12th Graders, College Students, and Young Adults (Ages 19-28)

(Entries are percentages.)
2013-
2014
$1991 \underline{1992} 1993 \underline{1994} \underline{1995} \underline{1996} \underline{1997} \underline{1998} \underline{1999} \underline{2000} \underline{2001} \underline{2002} \underline{2003} \underline{2004} \underline{2005} \underline{2006} \underline{2007} \underline{2008} \underline{2009} \underline{2010} \underline{2011} \underline{2012} \underline{2013} \underline{2014}$ change

| Any Illicit Drug ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8th Grade | 11.3 | 12.9 | 15.1 | 18.5 | 21.4 | 23.6 | 22.1 | 21.0 | 20.5 | 19.5 | 19.5 | 17.7 | 16.1 | 15.2 | 15.5 | 14.8 | 13.2 | 14.1 | 14.5 | 16.0 | 14.7 | $13.4 \ddagger$ | 15.2 | 14.6 | -0.6 |
| 10th Grade | 21.4 | 20.4 | 24.7 | 30.0 | 33.3 | 37.5 | 38.5 | 35.0 | 35.9 | 36.4 | 37.2 | 34.8 | 32.0 | 31.1 | 29.8 | 28.7 | 28.1 | 26.9 | 29.4 | 30.2 | 31.1 | 30.1 $\ddagger$ | 32.1 | 29.9 | -2.1 |
| 12th Grade | 29.4 | 27.1 | 31.0 | 35.8 | 39.0 | 40.2 | 42.4 | 41.4 | 42.1 | 40.9 | 41.4 | 41.0 | 39.3 | 38.8 | 38.4 | 36.5 | 35.9 | 36.6 | 36.5 | 38.3 | 40.0 | 39.7 $\ddagger$ | 40.1 | 38.7 | -1.5 |
| College Students | 29.2 | 30.6 | 30.6 | 31.4 | 33.5 | 34.2 | 34.1 | 37.8 | 36.9 | 36.1 | 37.9 | 37.0 | 36.5 | 36.2 | 36.6 | 33.9 | 35.0 | 35.2 | 36.0 | 35.0 | 36.3 | $37.3 \ddagger$ | 40.5 | 38.6 | -1.9 |
| Young Adults | 27.0 | 28.3 | 28.4 | 28.4 | 29.8 | 29.2 | 29.2 | 29.9 | 30.3 | 30.8 | 32.1 | 32.4 | 33.0 | 33.7 | 32.8 | 32.1 | 32.5 | 33.8 | 33.3 | 33.2 | 34.7 | $34.0 \ddagger$ | 36.7 | 37.5 | +0.9 |
| Any Illicit Drug other than Marijuana ${ }^{\text {a,b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 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 | +0.1 |
| 10th Grade | 12.2 | 12.3 | 13.9 | 15.2 | 17.5 | 18.4 | 18.2 | 16.6 | 16.7 | 16.7 $\ddagger$ | 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 | 0.0 |
| 12th Grade | 16.2 | 14.9 | 17.1 | 18.0 | 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 | -1.9 |
| College Students | 13.2 | 13.1 | 12.5 | 12.2 | 15.9 | 12.8 | 15.8 | 14.0 | 15.4 | 15.6 $\ddagger$ | 16.4 | 16.6 | 17.9 | 18.6 | 18.5 | 18.1 | 17.3 | 15.3 | 16.9 | 17.1 | 16.8 | 17.1 $\ddagger$ | 19.3 | 20.8 | +1.6 |
| Young Adults | 14.3 | 14.1 | 13.0 | 13.0 | 13.8 | 13.2 | 13.6 | 13.2 | 13.7 | $14.9 \ddagger$ | 15.4 | 16.3 | 18.1 | 18.8 | 18.5 | 18.4 | 18.1 | 18.9 | 17.4 | 18.5 | 17.6 | $17.2 \ddagger$ | 18.1 | 21.2 | +3.0 ss |
| Any Illicit Drug including |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Inhalants ${ }^{\text {a,c,d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 16.7 | 18.2 | 21.1 | 24.2 | 27.1 | 28.7 | 27.2 | 26.2 | 25.3 | 24.0 | 23.9 | 21.4 | 20.4 | 20.2 | 20.4 | 19.7 | 18.0 | 19.0 | 18.8 | 20.3 | 18.2 | $17.0 \ddagger$ | 17.6 | 16.8 | -0.7 |
| 10th Grade | 23.9 | 23.5 | 27.4 | 32.5 | 35.6 | 39.6 | 40.3 | 37.1 | 37.7 | 38.0 | 38.7 | 36.1 | 33.5 | 32.9 | 31.7 | 30.7 | 30.2 | 28.8 | 31.2 | 31.8 | 32.5 | $31.5 \ddagger$ | 33.2 | 31.0 | -2.2 |
| 12th Grade | 31.2 | 28.8 | 32.5 | 37.6 | 40.2 | 41.9 | 43.3 | 42.4 | 42.8 | 42.5 | 42.6 | 42.1 | 40.5 | 39.1 | 40.3 | 38.0 | 37.0 | 37.3 | 37.6 | 39.2 | 41.5 | 40.2 $\ddagger$ | 42.3 | 39.2 | -3.1 |
| College Students | 29.8 | 31.1 | 31.7 | 31.9 | 33.7 | 35.1 | 35.5 | 39.1 | 37.4 | 37.0 | 38.2 | 37.7 | 36.0 | 35.9 | 37.9 | 35.5 | 36.8 | 35.7 | 35.0 | 34.5 | 36.5 | $36.9 \ddagger$ | 40.1 | 36.3 | -3.8 |
| Young Adults | 27.8 | 29.2 | 28.9 | 29.2 | 30.4 | 30.2 | 30.1 | 30.6 | 30.6 | 31.2 | 33.2 | 32.4 | 32.7 | 34.9 | 32.8 | 32.6 | 33.2 | 33.5 | 33.1 | 33.3 | 34.2 | $34.2 \ddagger$ | 38.3 | 35.3 | -3.0 |
| Marijuana/Hashish |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 6.2 | 7.2 | 9.2 | 13.0 | 15.8 | 18.3 | 17.7 | 16.9 | 16.5 | 15.6 | 15.4 | 14.6 | 12.8 | 11.8 | 12.2 | 11.7 | 10.3 | 10.9 | 11.8 | 13.7 | 12.5 | 11.4 | 12.7 | 11.7 | -1.0 |
| 10th Grade | 16.5 | 15.2 | 19.2 | 25.2 | 28.7 | 33.6 | 34.8 | 31.1 | 32.1 | 32.2 | 32.7 | 30.3 | 28.2 | 27.5 | 26.6 | 25.2 | 24.6 | 23.9 | 26.7 | 27.5 | 28.8 | 28.0 | 29.8 | 27.3 | -2.5 s |
| 12th Grade | 23.9 | 21.9 | 26.0 | 30.7 | 34.7 | 35.8 | 38.5 | 37.5 | 37.8 | 36.5 | 37.0 | 36.2 | 34.9 | 34.3 | 33.6 | 31.5 | 31.7 | 32.4 | 32.8 | 34.8 | 36.4 | 36.4 | 36.4 | 35.1 | -1.3 |
| College Students | 26.5 | 27.7 | 27.9 | 29.3 | 31.2 | 33.1 | 31.6 | 35.9 | 35.2 | 34.0 | 35.6 | 34.7 | 33.7 | 33.3 | 33.3 | 30.2 | 31.8 | 32.3 | 32.8 | 32.7 | 33.2 | 34.9 | 35.5 | 34.4 | -1.1 |
| Young Adults | 23.8 | 25.2 | 25.1 | 25.5 | 26.5 | 27.0 | 26.8 | 27.4 | 27.6 | 27.9 | 29.2 | 29.3 | 29.0 | 29.2 | 28.2 | 27.7 | 28.5 | 28.6 | 29.3 | 28.7 | 31.0 | 30.2 | 32.2 | 31.6 | -0.6 |
| Synthetic Marijuana ${ }^{\text {p,q }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.4 | 4.0 | 3.3 | -0.7 |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.8 | 7.4 | 5.4 | -2.0 ss |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 11.4 | 11.3 | 7.9 | 5.8 | -2.0 s |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.5 | 5.3 | 2.3 | 0.9 | -1.4 s |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7.4 | 5.3 | 3.2 | 1.3 | -1.9 sss |
| Inhalants ${ }^{\text {c,d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 9.0 | 9.5 | 11.0 | 11.7 | 12.8 | 12.2 | 11.8 | 11.1 | 10.3 | 9.4 | 9.1 | 7.7 | 8.7 | 9.6 | 9.5 | 9.1 | 8.3 | 8.9 | 8.1 | 8.1 | 7.0 | 6.2 | 5.2 | 5.3 | +0.1 |
| 10th Grade | 7.1 | 7.5 | 8.4 | 9.1 | 9.6 | 9.5 | 8.7 | 8.0 | 7.2 | 7.3 | 6.6 | 5.8 | 5.4 | 5.9 | 6.0 | 6.5 | 6.6 | 5.9 | 6.1 | 5.7 | 4.5 | 4.1 | 3.5 | 3.3 | -0.1 |
| 12th Grade | 6.6 | 6.2 | 7.0 | 7.7 | 8.0 | 7.6 | 6.7 | 6.2 | 5.6 | 5.9 | 4.5 | 4.5 | 3.9 | 4.2 | 5.0 | 4.5 | 3.7 | 3.8 | 3.4 | 3.6 | 3.2 | 2.9 | 2.5 | 1.9 | -0.6 |
| College Students | 3.5 | 3.1 | 3.8 | 3.0 | 3.9 | 3.6 | 4.1 | 3.0 | 3.2 | 2.9 | 2.8 | 2.0 | 1.8 | 2.7 | 1.8 | 1.5 | 1.5 | 1.1 | 1.2 | 1.7 | 0.9 | 1.5 | 0.5 | 1.3 | +0.8 |
| Young Adults | 2.0 | 1.9 | 2.1 | 2.1 | 2.4 | 2.2 | 2.3 | 2.1 | 2.3 | 2.1 | 1.7 | 1.6 | 1.4 | 1.7 | 1.3 | 1.3 | 0.8 | 1.4 | 0.9 | 1.2 | 0.8 | 1.1 | 0.5 | 1.1 | +0.6 s |
| Nitrites ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | 0.9 | 0.5 | 0.9 | 1.1 | 1.1 | 1.6 | 1.2 | 1.4 | 0.9 | 0.6 | 0.6 | 1.1 | 0.9 | 0.8 | 0.6 | 0.5 | 0.8 | 0.6 | 0.9 | - | - | - | - | - | - |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | 0.2 | 0.1 | 0.4 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hallucinogens ${ }^{\text {b,f }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 1.9 | 2.5 | 2.6 | 2.7 | 3.6 | 4.1 | 3.7 | 3.4 | 2.9 | $2.8 \ddagger$ | 3.4 | 2.6 | 2.6 | 2.2 | 2.4 | 2.1 | 1.9 | 2.1 | 1.9 | 2.2 | 2.2 | 1.6 | 1.6 | 1.3 | -0.3 |
| 10th Grade | 4.0 | 4.3 | 4.7 | 5.8 | 7.2 | 7.8 | 7.6 | 6.9 | 6.9 | 6.1 $\ddagger$ | 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 | -0.1 |
| 12th Grade | 5.8 | 5.9 | 7.4 | 7.6 | 9.3 | 10.1 | 9.8 | 9.0 | 9.4 | 8.1 $\ddagger$ | 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 | -0.5 |
| College Students | 6.3 | 6.8 | 6.0 | 6.2 | 8.2 | 6.9 | 7.7 | 7.2 | 7.8 | 6.7 $\ddagger$ | 7.5 | 6.3 | 7.4 | 5.9 | 5.0 | 5.6 | 4.9 | 5.1 | 4.7 | 4.9 | 4.1 | 4.5 | 4.5 | 4.0 | -0.5 |
| Young Adults | 4.5 | 5.0 | 4.5 | 4.8 | 5.6 | 5.6 | 5.9 | 5.2 | 5.4 | $5.4 \ddagger$ | 5.4 | 4.7 | 5.2 | 4.7 | 4.5 | 4.1 | 3.8 | 3.8 | 3.9 | 4.2 | 3.7 | 3.6 | 3.9 | 4.1 | +0.3 |

(Table continued on next page.)

TABLE 2-2 (cont.)
Trends in Annual Prevalence of Use of Various Drugs for 8th, 10th, and 12th Graders, College Students, and Young Adults (Ages 19-28)
(Entries are percentages.)
2013-
2014


| LSD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8th Grade | 1.7 | 2.1 | 2.3 | 2.4 | 3.2 | 3.5 | 3.2 | 2.8 | 2.4 | 2.4 | 2.2 | 1.5 | 1.3 | 1.1 | 1.2 | 0.9 | 1.1 | 1.3 | 1.1 | 1.2 | 1.1 | 0.8 | 1.0 | 0.7 | -0.3 |
| 10th Grade | 3.7 | 4.0 | 4.2 | 5.2 | 6.5 | 6.9 | 6.7 | 5.9 | 6.0 | 5.1 | 4.1 | 2.6 | 1.7 | 1.6 | 1.5 | 1.7 | 1.9 | 1.8 | 1.9 | 1.9 | 1.8 | 1.7 | 1.7 | 1.9 | +0.2 |
| 12th Grade | 5.2 | 5.6 | 6.8 | 6.9 | 8.4 | 8.8 | 8.4 | 7.6 | 8.1 | 6.6 | 6.6 | 3.5 | 1.9 | 2.2 | 1.8 | 1.7 | 2.1 | 2.7 | 1.9 | 2.6 | 2.7 | 2.4 | 2.2 | 2.5 | +0.3 |
| College Students | 5.1 | 5.7 | 5.1 | 5.2 | 6.9 | 5.2 | 5.0 | 4.4 | 5.4 | 4.3 | 4.0 | 2.1 | 1.4 | 1.2 | 0.7 | 1.4 | 1.3 | 2.6 | 2.0 | 2.1 | 2.0 | 1.9 | 2.6 | 2.2 | -0.3 |
| Young Adults | 3.8 | 4.3 | 3.8 | 4.0 | 4.6 | 4.5 | 4.4 | 3.5 | 4.0 | 3.7 | 3.4 | 1.8 | 1.2 | 0.9 | 0.8 | 1.2 | 1.1 | 1.4 | 1.7 | 1.5 | 1.7 | 1.6 | 2.0 | 2.2 | +0.2 |
| Hallucinogens other than LSD ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 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 | -0.2 |
| 10th Grade | 1.3 | 1.4 | 1.9 | 2.4 | 2.8 | 3.3 | 3.3 | 3.4 | 3.2 | 3.1 $\ddagger$ | 4.3 | 4.0 | 3.6 | 3.7 | 3.5 | 3.7 | 3.8 | 3.3 | 3.5 | 3.5 | 3.5 | 3.0 | 2.7 | 2.6 | -0.2 |
| 12th Grade | 2.0 | 1.7 | 2.2 | 3.1 | 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 | -0.6 |
| College Students | 3.1 | 2.6 | 2.7 | 2.8 | 4.0 | 4.1 | 4.9 | 4.4 | 4.5 | 4.4 $\ddagger$ | 5.5 | 5.8 | 7.1 | 5.6 | 5.0 | 5.4 | 4.7 | 4.4 | 4.1 | 4.4 | 3.4 | 3.9 | 3.7 | 3.2 | -0.4 |
| Young Adults | 1.7 | 1.9 | 1.9 | 2.0 | 2.5 | 2.8 | 3.1 | 3.0 | 3.0 | $3.4 \ddagger$ | 3.5 | 4.0 | 4.9 | 4.5 | 4.2 | 3.8 | 3.6 | 3.4 | 3.3 | 3.7 | 3.2 | 2.9 | 3.2 | 3.1 | -0.1 |
| PCP ${ }^{9}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | 1.4 | 1.4 | 1.4 | 1.6 | 1.8 | 2.6 | 2.3 | 2.1 | 1.8 | 2.3 | 1.8 | 1.1 | 1.3 | 0.7 | 1.3 | 0.7 | 0.9 | 1.1 | 1.0 | 1.0 | 1.3 | 0.9 | 0.7 | 0.8 | +0.1 |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.2 | 0.5 | 0.6 | 0.6 | 0.3 | 0.6 | 0.3 | 0.3 | 0.1 | 0.6 | 0.2 | 0.3 | 0.4 | 0.1 | 0.2 | 0.3 | * | 0.2 | 0.1 | -0.1 |
| Ecstasy (MDMA ) ${ }^{\text {h }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | 2.3 | 2.3 | 1.8 | 1.7 | 3.1 | 3.5 | 2.9 | 2.1 | 1.7 | 1.7 | 1.4 | 1.5 | 1.7 | 1.3 | 2.4 | 1.7 | 1.1 | 1.1 | 0.9 | -0.2 |
| 10th Grade | - | - | - | - | - | 4.6 | 3.9 | 3.3 | 4.4 | 5.4 | 6.2 | 4.9 | 3.0 | 2.4 | 2.6 | 2.8 | 3.5 | 2.9 | 3.7 | 4.7 | 4.5 | 3.0 | 3.6 | 2.3 | -1.2 ss |
| 12th Grade | - | - | - | - | - | 4.6 | 4.0 | 3.6 | 5.6 | 8.2 | 9.2 | 7.4 | 4.5 | 4.0 | 3.0 | 4.1 | 4.5 | 4.3 | 4.3 | 4.5 | 5.3 | 3.8 | 4.0 | 3.6 | -0.4 |
| College Students | 0.9 | 2.0 | 0.8 | 0.5 | 2.4 | 2.8 | 2.4 | 3.9 | 5.5 | 9.1 | 9.2 | 6.8 | 4.4 | 2.2 | 2.9 | 2.6 | 2.2 | 3.7 | 3.1 | 4.3 | 4.2 | 5.8 | 5.3 | 5.0 | -0.3 |
| Young Adults | 0.8 | 1.0 | 0.8 | 0.7 | 1.6 | 1.7 | 2.1 | 2.9 | 3.6 | 7.2 | 7.5 | 6.2 | 4.5 | 3.5 | 3.0 | 3.0 | 2.5 | 3.3 | 3.1 | 3.5 | 3.6 | 4.1 | 4.2 | 4.8 | +0.5 |
| Salvia ${ }^{\text {p,q }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.7 | 1.6 | 1.4 | 1.2 | 0.6 | -0.6 ss |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.7 | 3.9 | 2.5 | 2.3 | 1.8 | -0.5 |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.7 | 5.5 | 5.9 | 4.4 | 3.4 | 1.8 | -1.6 sss |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.8 | 3.5 | 3.1 | 1.5 | 1.0 | 1.1 | +0.1 |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.5 | 3.6 | 2.2 | 1.4 | 0.9 | 1.2 | +0.3 |
| Cocaine |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 1.1 | 1.5 | 1.7 | 2.1 | 2.6 | 3.0 | 2.8 | 3.1 | 2.7 | 2.6 | 2.5 | 2.3 | 2.2 | 2.0 | 2.2 | 2.0 | 2.0 | 1.8 | 1.6 | 1.6 | 1.4 | 1.2 | 1.0 | 1.0 | +0.1 |
| 10th Grade | 2.2 | 1.9 | 2.1 | 2.8 | 3.5 | 4.2 | 4.7 | 4.7 | 4.9 | 4.4 | 3.6 | 4.0 | 3.3 | 3.7 | 3.5 | 3.2 | 3.4 | 3.0 | 2.7 | 2.2 | 1.9 | 2.0 | 1.9 | 1.5 | -0.4 |
| 12th Grade | 3.5 | 3.1 | 3.3 | 3.6 | 4.0 | 4.9 | 5.5 | 5.7 | 6.2 | 5.0 | 4.8 | 5.0 | 4.8 | 5.3 | 5.1 | 5.7 | 5.2 | 4.4 | 3.4 | 2.9 | 2.9 | 2.7 | 2.6 | 2.6 | -0.1 |
| College Students | 3.6 | 3.0 | 2.7 | 2.0 | 3.6 | 2.9 | 3.4 | 4.6 | 4.6 | 4.8 | 4.7 | 4.8 | 5.4 | 6.6 | 5.7 | 5.1 | 5.4 | 4.4 | 4.2 | 3.5 | 3.3 | 3.1 | 2.7 | 4.4 | +1.7 s |
| Young Adults | 6.2 | 5.7 | 4.7 | 4.3 | 4.4 | 4.1 | 4.7 | 4.9 | 5.4 | 5.4 | 5.8 | 5.8 | 6.6 | 7.1 | 6.9 | 6.6 | 6.2 | 6.0 | 5.2 | 4.7 | 4.7 | 4.1 | 3.9 | 5.0 | +1.1 ss |
| Crack ${ }^{\text {i }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 0.7 | 0.9 | 1.0 | 1.3 | 1.6 | 1.8 | 1.7 | 2.1 | 1.8 | 1.8 | 1.7 | 1.6 | 1.6 | 1.3 | 1.4 | 1.3 | 1.3 | 1.1 | 1.1 | 1.0 | 0.9 | 0.6 | 0.6 | 0.7 | +0.1 |
| 10th Grade | 0.9 | 0.9 | 1.1 | 1.4 | 1.8 | 2.1 | 2.2 | 2.5 | 2.4 | 2.2 | 1.8 | 2.3 | 1.6 | 1.7 | 1.7 | 1.3 | 1.3 | 1.3 | 1.2 | 1.0 | 0.9 | 0.8 | 0.8 | 0.5 | -0.3 ss |
| 12th Grade | 1.5 | 1.5 | 1.5 | 1.9 | 2.1 | 2.1 | 2.4 | 2.5 | 2.7 | 2.2 | 2.1 | 2.3 | 2.2 | 2.3 | 1.9 | 2.1 | 1.9 | 1.6 | 1.3 | 1.4 | 1.0 | 1.2 | 1.1 | 1.1 | 0.0 |
| College Students | 0.5 | 0.4 | 0.6 | 0.5 | 1.1 | 0.6 | 0.4 | 1.0 | 0.9 | 0.9 | 0.9 | 0.4 | 1.3 | 1.3 | 0.8 | 1.0 | 0.6 | 0.5 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.8 | 0.0 |
| Young Adults | 1.2 | 1.4 | 1.3 | 1.1 | 1.1 | 1.1 | 1.0 | 1.1 | 1.4 | 1.2 | 1.3 | 1.0 | 1.0 | 1.3 | 1.2 | 1.1 | 1.0 | 0.9 | 0.7 | 0.5 | 0.6 | 0.5 | 0.3 | 0.4 | +0.1 |
| Other Cocaine ${ }^{\text {j }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 1.0 | 1.2 | 1.3 | 1.7 | 2.1 | 2.5 | 2.2 | 2.4 | 2.3 | 1.9 | 1.9 | 1.8 | 1.6 | 1.6 | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 | 1.3 | 1.1 | 1.0 | 0.8 | 0.8 | 0.0 |
| 10th Grade | 2.1 | 1.7 | 1.8 | 2.4 | 3.0 | 3.5 | 4.1 | 4.0 | 4.4 | 3.8 | 3.0 | 3.4 | 2.8 | 3.3 | 3.0 | 2.9 | 3.1 | 2.6 | 2.3 | 1.9 | 1.7 | 1.8 | 1.6 | 1.3 | -0.2 |
| 12th Grade | 3.2 | 2.6 | 2.9 | 3.0 | 3.4 | 4.2 | 5.0 | 4.9 | 5.8 | 4.5 | 4.4 | 4.4 | 4.2 | 4.7 | 4.5 | 5.2 | 4.5 | 4.0 | 3.0 | 2.6 | 2.6 | 2.4 | 2.4 | 2.4 | 0.0 |
| College Students | 3.2 | 2.4 | 2.5 | 1.8 | 3.3 | 2.3 | 3.0 | 4.2 | 4.2 | 4.1 | 4.1 | 5.0 | 5.1 | 6.3 | 5.0 | 3.8 | 5.3 | 4.2 | 4.2 | 4.0 | 3.0 | 3.0 | 2.8 | 4.1 | +1.3 |
| Young Adults | 5.4 | 5.1 | 3.9 | 3.6 | 3.9 | 3.8 | 4.3 | 4.5 | 4.8 | 4.8 | 5.3 | 5.6 | 6.1 | 6.4 | 6.3 | 5.9 | 5.6 | 5.5 | 5.0 | 4.8 | 4.3 | 4.0 | 3.7 | 4.8 | +1.1 s |

(Table continued on next page.)

TABLE 2-2 (cont.)
Trends in Annual Prevalence of Use of Various Drugs for 8th, 10th, and 12th Graders, College Students, and Young Adults (Ages 19-28)
(Entries are percentages.)
2013-
2014
$\underline{1991} 1992 \underline{1993} \underline{1994} \underline{1995} \underline{1996} \underline{1997} \underline{1998} \underline{1999} \underline{2000} \underline{2001} \underline{2002} \underline{2003} \underline{2004} \underline{2005} \underline{2006} \underline{2007} \underline{2008} \underline{2009} \underline{2010} \underline{2011} \underline{2012} \underline{2013} \underline{2014} \quad \underline{c h a n g e}$

| Heroin ${ }^{\text {k }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | , |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8th Grade | 0.7 | 0.7 | 0.7 | 1.2 | 1.4 | 1.6 | 1.3 | 1.3 | 1.4 | 1.1 | 1.0 | 0.9 | 0.9 | 1.0 | 0.8 | 0.8 | 0.8 | 0.9 | 0.7 | 0.8 | 0.7 | 0.5 | 0.5 | 0.5 | 0.0 |
| 10th Grade | 0.5 | 0.6 | 0.7 | 0.9 | 1.1 | 1.2 | 1.4 | 1.4 | 1.4 | 1.4 | 0.9 | 1.1 | 0.7 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.9 | 0.8 | 0.8 | 0.6 | 0.6 | 0.5 | -0.1 |
| 12th Grade | 0.4 | 0.6 | 0.5 | 0.6 | 1.1 | 1.0 | 1.2 | 1.0 | 1.1 | 1.5 | 0.9 | 1.0 | 0.8 | 0.9 | 0.8 | 0.8 | 0.9 | 0.7 | 0.7 | 0.9 | 0.8 | 0.6 | 0.6 | 0.6 | 0.0 |
| College Students | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.4 | 0.3 | 0.6 | 0.2 | 0.5 | 0.4 | 0.1 | 0.2 | 0.4 | 0.3 | 0.3 | 0.2 | 0.3 | 0.4 | 0.2 | 0.1 | 0.1 | 0.3 | 0.0 | -0.2 |
| Young Adults | 0.1 | 0.2 | 0.2 | 0.1 | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 | 0.5 | 0.2 | 0.4 | 0.3 | 0.4 | 0.4 | 0.3 | 0.5 | 0.6 | 0.5 | 0.5 | 0.5 | 0.6 | 0.4 | -0.2 |
| With a Needle ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | 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 | +0.1 |
| 10th Grade | - | - | - | - | 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 | 0.0 |
| 12th Grade | - | - | - | - | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.4 | 0.4 | 0.3 | 0.7 | 0.6 | 0.4 | 0.4 | 0.5 | +0.2 |
| College Students | - | - | - | - | 0.1 | * | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | * | 0.1 | 0.1 | 0.3 | 0.3 | * | 0.0 | 0.1 | 0.0 | 0.2 | 0.2 | 0.1 | 0.0 | -0.1 |
| Young Adults | - | - | - | - | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | * | 0.3 | * | * | 0.1 | 0.2 | 0.3 | 0.1 | 0.1 | 0.1 | 0.2 | 0.4 | 0.3 | 0.3 | 0.2 | -0.1 |
| Without a Needle ${ }^{\text {1 }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | 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 | -0.1 |
| 10th Grade | - | - | - | - | 0.8 | 0.9 | 1.1 | 1.0 | 1.1 | 1.1 | 0.7 | 0.8 | 0.5 | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.4 | 0.4 | 0.3 | 0.0 |
| 12th Grade | - | - | - | - | 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 | 0.0 |
| College Students | - | - | - | - | 0.0 | 0.8 | 0.4 | 0.9 | 0.3 | 0.8 | 0.6 | 0.2 | 0.1 | 0.6 | 0.2 | 0.3 | 0.2 | 0.3 | 0.1 | 0.3 | 0.2 | 0.1 | 0.5 | 0.1 | -0.4 |
| Young Adults | - | - | - | - | 0.3 | 0.4 | 0.4 | 0.7 | 0.6 | 0.5 | 0.9 | 0.2 | 0.4 | 0.3 | 0.4 | 0.5 | 0.3 | 0.4 | 0.6 | 0.4 | 0.2 | 0.4 | 0.7 | 0.3 | -0.4 |
| Narcotics other than Heroin ${ }^{m, n}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | 3.5 | 3.3 | 3.6 | 3.8 | 4.7 | 5.4 | 6.2 | 6.3 | 6.7 | 7.0 | $6.7 \pm$ | 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 | -1.0 s |
| College Students | 2.7 | 2.7 | 2.5 | 2.4 | 3.8 | 3.1 | 4.2 | 4.2 | 4.3 | 4.5 | 5.7£ | 7.4 | 8.7 | 8.2 | 8.4 | 8.8 | 7.7 | 6.5 | 7.6 | 7.2 | 6.2 | 5.4 | 5.4 | 4.8 | -0.6 |
| Young Adults | 2.5 | 2.5 | 2.2 | 2.5 | 3.0 | 2.9 | 3.3 | 3.4 | 3.8 | 4.1 | $5.0 \ddagger$ | 7.1 | 8.5 | 9.0 | 8.7 | 9.1 | 8.7 | 9.1 | 8.4 | 9.0 | 7.9 | 7.3 | 7.0 | 6.3 | -0.7 |
| OxyContin m,p,aa,bb |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | 1.3 | 1.7 | 1.7 | 1.8 | 2.6 | 1.8 | 2.1 | 2.0 | 2.1 | 1.8 | 1.6 | 2.0 | 1.0 | -0.9 s |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | 3.0 | 3.6 | 3.5 | 3.2 | 3.8 | 3.9 | 3.6 | 5.1 | 4.6 | 3.9 | 3.0 | 3.4 | 3.0 | -0.4 |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | 4.0 | 4.5 | 5.0 | 5.5 | 4.3 | 5.2 | 4.7 | 4.9 | 5.1 | 4.9 | 4.3 | 3.6 | 3.3 | -0.2 |
| College Students | - | - | - | - | - | - | - | - | - | - | - | 1.5 | 2.2 | 2.5 | 2.1 | 3.0 | 2.8 | 3.6 | 5.0 | 2.3 | 2.4 | 1.2 | 2.3 | 1.3 | -1.1 |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | 1.9 | 2.6 | 3.1 | 3.1 | 3.1 | 2.9 | 3.9 | 5.2 | 3.2 | 2.8 | 2.3 | 2.8 | 2.5 | -0.3 |
| Vicodin m.p,a, ${ }^{\text {a }}$, |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | 2.5 | 2.8 | 2.5 | 2.6 | 3.0 | 2.7 | 2.9 | 2.5 | 2.7 | 2.1 | 1.3 | 1.4 | 1.0 | -0.3 |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | 6.9 | 7.2 | 6.2 | 5.9 | 7.0 | 7.2 | 6.7 | 8.1 | 7.7 | 5.9 | 4.4 | 4.6 | 3.4 | -1.1 |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | 9.6 | 10.5 | 9.3 | 9.5 | 9.7 | 9.6 | 9.7 | 9.7 | 8.0 | 8.1 | 7.5 | 5.3 | 4.8 | -0.5 |
| College Students | - | - | - | - | - | - | - | - | - | - | - | 6.9 | 7.5 | 7.4 | 9.6 | 7.6 | 6.7 | 6.7 | 8.4 | 4.9 | 5.8 | 3.8 | 4.4 | 2.8 | -1.6 |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | 8.2 | 8.6 | 8.9 | 9.3 | 9.1 | 8.9 | 9.1 | 8.9 | 7.8 | 7.1 | 6.3 | 6.2 | 4.8 | -1.3 s |
| Amphetamines ${ }^{\mathrm{m}, \mathrm{o}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 6.2 | 6.5 | 7.2 | 7.9 | 8.7 | 9.1 | 8.1 | 7.2 | 6.9 | 6.5 | 6.7 | 5.5 | 5.5 | 4.9 | 4.9 | 4.7 | 4.2 | 4.5 | 4.1 | 3.9 | 3.5 | $2.9 \ddagger$ | 4.2 | 4.3 | +0.1 |
| 10th Grade | 8.2 | 8.2 | 9.6 | 10.2 | 11.9 | 12.4 | 12.1 | 10.7 | 10.4 | 11.1 | 11.7 | 10.7 | 9.0 | 8.5 | 7.8 | 7.9 | 8.0 | 6.4 | 7.1 | 7.6 | 6.6 | $6.5 \ddagger$ | 7.9 | 7.6 | -0.3 |
| 12th Grade | 8.2 | 7.1 | 8.4 | 9.4 | 9.3 | 9.5 | 10.2 | 10.1 | 10.2 | 10.5 | 10.9 | 11.1 | 9.9 | 10.0 | 8.6 | 8.1 | 7.5 | 6.8 | 6.6 | 7.4 | 8.2 | $7.9 \ddagger$ | 9.2 | 8.1 | -1.1 |
| College Students | 3.9 | 3.6 | 4.2 | 4.2 | 5.4 | 4.2 | 5.7 | 5.1 | 5.8 | 6.6 | 7.2 | 7.0 | 7.1 | 7.0 | 6.7 | 6.0 | 6.9 | 5.7 | 7.5 | 9.0 | 9.3 | 11.1 $\ddagger$ | 9.6 | 10.1 | +0.5 |
| Young Adults | 4.3 | 4.1 | 4.0 | 4.5 | 4.6 | 4.2 | 4.6 | 4.5 | 4.7 | 5.4 | 5.8 | 5.9 | 5.8 | 6.2 | 5.1 | 5.6 | 5.6 | 5.3 | 6.0 | 7.1 | 7.2 | $7.8 \ddagger$ | 7.5 | 8.0 | +0.6 |
| Ritalin ${ }^{\text {m,p,q, }, \text { bb }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | 2.9 | 2.8 | 2.6 | 2.5 | 2.4 | 2.6 | 2.1 | 1.6 | 1.8 | 1.5 | 1.3 | 0.7 | 1.1 | 0.9 | -0.2 |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | 4.8 | 4.8 | 4.1 | 3.4 | 3.4 | 3.6 | 2.8 | 2.9 | 3.6 | 2.7 | 2.6 | 1.9 | 1.8 | 1.8 | +0.1 |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | 5.1 | 4.0 | 4.0 | 5.1 | 4.4 | 4.4 | 3.8 | 3.4 | 2.1 | 2.7 | 2.6 | 2.6 | 2.3 | 1.8 | -0.5 |
| College Students | - | - | - | - | - | - | - | - | - | - | - | 5.7 | 4.7 | 4.7 | 4.2 | 3.9 | 3.7 | 3.2 | 1.7 | 1.9 | 2.3 | 1.8 | 3.6 | 1.6 | -1.9 |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | 2.9 | 2.9 | 2.7 | 2.5 | 2.6 | 2.4 | 2.4 | 1.7 | 1.7 | 1.5 | 1.6 | 2.0 | 1.6 | -0.4 |

TABLE 2-2 (cont.)
Trends in Annual Prevalence of Use of Various Drugs for 8th, 10th, and 12th Graders, College Students, and Young Adults (Ages 19-28)
(Entries are percentages.)
2013-
2014

Sedatives
(Barbiturates) ${ }^{m}$

| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | 3.4 | 2.8 | 3.4 | 4.1 | 4.7 | 4.9 | 5.1 | 5.5 | 5.8 | 6.2 | 5.7 | 6.7 | $6.0 \ddagger$ | 6.5 | 7.2 | 6.6 | 6.2 | 5.8 | 5.2 | 4.8 | 4.3 | 4.5 | 4.8 | 4.3 | -0.5 |
| College Students | 1.2 | 1.4 | 1.5 | 1.2 | 2.0 | 2.3 | 3.0 | 2.5 | 3.2 | 3.7 | 3.8 | 3.7 | 4.1 | 4.2 | 3.9 | 3.4 | 3.6 | 3.7 | 3.1 | 2.5 | 1.7 | $2.2 \ddagger$ | 2.7 | 3.1 | +0.3 |
| Young Adults | 1.8 | 1.6 | 1.9 | 1.8 | 2.1 | 2.2 | 2.4 | 2.5 | 2.8 | 3.4 | 3.7 | 3.9 | 3.9 | 4.4 | 4.2 | 3.9 | 4.2 | 4.7 | 3.8 | 3.3 | 3.2 | 2.7才 | 3.4 | 3.2 | -0.3 |

Methaqualone ${ }^{\mathrm{m}, \mathrm{s}}$

| 8th Grade | - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | 0.5 | 0.6 | 0.2 | 0.8 | 0.7 | 1.1 | 1.0 | 1.1 | 1.1 | 0.3 | 0.8 | 0.9 | 0.6 | 0.8 | 0.9 | 0.8 | 0.5 | 0.5 | 0.6 | 0.3 | 0.3 | 0.4 |  | - | - |
| College Students Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Tranquilizers ${ }^{\text {b,m }}$

| 8th Grade | 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 | -0.1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10th Grade | 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 | +0.2 |
| 12th Grade | 3.6 | 2.8 | 3.5 | 3.7 | 4.4 | 4.6 | 4.7 | 5.5 | 5.8 | 5.7 $\ddagger$ | 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 | +0.1 |
| College Students | 2.4 | 2.9 | 2.4 | 1.8 | 2.9 | 2.8 | 3.8 | 3.9 | 3.8 | $4.2 \ddagger$ | 5.1 | 6.7 | 6.9 | 6.7 | 6.4 | 5.8 | 5.5 | 5.0 | 5.4 | 4.9 | 4.2 | 3.4 | 4.4 | 3.5 | -0.9 |
| Young Adults | 3.5 | 3.4 | 3.1 | 2.9 | 3.4 | 3.2 | 3.1 | 3.8 | 3.7 | 4.6 $\ddagger$ | 5.5 | 7.0 | 6.8 | 7.4 | 6.7 | 6.5 | 7.1 | 6.8 | 6.4 | 6.3 | 5.9 | 5.3 | 5.4 | 4.8 | -0.6 |

Any Prescription Drug ${ }^{\text {o,t }}$

| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 17.1 | 16.8 | 15.8 | 15.4 | 14.4 | 15.0 | 15.2 | 14.8 $\ddagger$ | 15.9 | 13.9 | -2.0 ss |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |  |  |  |  |  |  |  |  |  |  |

Over-the-counter Cough/Cold
Medicines ${ }^{\mathrm{p}, \mathrm{q}}$

| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.2 | 4.0 | 3.6 | 3.8 | 3.2 | 2.7 | 3.0 | 2.9 | 2.0 | -0.9 s |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.3 | 5.4 | 5.3 | 6.0 | 5.1 | 5.5 | 4.7 | 4.3 | 3.7 | -0.6 |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.9 | 5.8 | 5.5 | 5.9 | 6.6 | 5.3 | 5.6 | 5.0 | 4.1 | -0.9 |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

(Table continued on next page.)

TABLE 2-2 (cont.)
Trends in Annual Prevalence of Use of Various Drugs for 8th, 10th, and 12th Graders, College Students, and Young Adults (Ages 19-28)
(Entries are percentages.)
2013-
2014
$\underline{1991} 1992 \underline{1993} \underline{1994} \underline{1995} \underline{1996} \underline{1997} \underline{1998} \underline{1999} \underline{2000} \underline{2001} \underline{2002} \underline{2003} \underline{2004} \underline{2005} \underline{2006} \underline{2007} \underline{2008} \underline{2009} \underline{2010} \underline{2011} \underline{2012} \underline{2013} \underline{2014} \quad \underline{c h a n g e}$
Rohypnol ${ }^{u}$


Alcohol ${ }^{v}$
Any Use

| 8th Grade | 54.0 | 53.7 | 45.4 | 46.8 | 45.3 | 46.5 | 45.5 | 43.7 | 43.5 | 43.1 | 41.9 | 38.7 | 37.2 | 36.7 | 33.9 | 33.6 | 31.8 | 32.1 | 30.3 | 29.3 | 26.9 | 23.6 | 22.1 | 20.8 | -1.3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10th Grade | 72.3 | $70.2 \ddagger$ | 63.4 | 63.9 | 63.5 | 65.0 | 65.2 | 62.7 | 63.7 | 65.3 | 63.5 | 60.0 | 59.3 | 58.2 | 56.7 | 55.8 | 56.3 | 52.5 | 52.8 | 52 | 49.8 | 48.5 | , | 44.0 | -3.1 ss |
| 12th Grade | 77. | 76.8 | 72.7 | 73.0 | 73.7 | 72.5 | 74.8 | 74.3 | 73.8 | 73.2 | 73.3 | 71.5 | 70.1 | 70.6 | 68.6 | 66.5 | 66.4 | 65.5 | 66.2 | 65.2 | 63.5 | 63.5 | 62.0 | 60.2 | 1.8 |
| College Students | 88.3 | 86.9 | 85.1 | 82.7 | 83.2 | 82.9 | 82.4 | 84.6 | 83.6 | 83.2 | 83.0 | 82.9 | 81.7 | 81.2 | 83.0 | 82.1 | 80.9 | 82.1 | 79.4 | 78.6 | 77.4 | 79.2 | 75.6 | 76.1 | +0.5 |




Been Drunk w

| 8th Grade | 17.5 | 18.3 | 18.2 | 18.2 | 18.4 | 19.8 | 18.4 | 17.9 | 18.5 | 18.5 | 16.6 | 15.0 | 14.5 | 14.5 | 14.1 | 13.9 | 12.6 | 12.7 | 12.2 | 11.5 | 10.5 | 8.6 | 8.4 | . 3 | -1.1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10th Grade | 40.1 | 37.0 | 37.8 | 38.0 | 38.5 | 40.1 | 40.7 | 38.3 | 40.9 | 41.6 | 39.9 | 35.4 | 34.7 | 35.1 | 34.2 | 34.5 | 34.4 | 30.0 | 31.2 | 29.9 | 28.8 | 28.2 | 27.1 | 24.6 | -2.4 s |
| 12th Grade | 52 | 50.3 | 49.6 | 51. | 52.5 | 51 | 53.2 | 52 | 53 | 51 | 53 | 50. | 48 | 51. | 47 | 47.9 | 46 | 45 | 4 | 44.0 | 42.2 | 45 | 43 | 4 | -2.0 |
| College Students | 69.1 | 67.3 | 65.6 | 63.1 | 62.1 | 64.2 | 66.8 | 67.0 | 65.4 | 64.7 | 68.8 | 66.0 | 64.7 | 67.1 | 64.2 | 66.2 | 64.8 | 66.8 | 61.5 | 63.8 | 60.1 | 61.5 | 57.9 | 60.5 | +2.5 |
| Young Adults | 62.0 | 60.9 | 61.1 | 58.8 | 61.6 | 59.9 | 63.2 | 59.6 | 63.2 | 60.6 | 63.1 | 61.8 | 62.9 | 63.8 | 63.5 | 65.7 | 65.8 | 66.0 | 65.5 | 64.8 | 64.0 | 64.6 | 63.1 | 63.5 | +0.5 |


| Flavored Alcoholic Beverages ${ }^{\text {g.p.eee }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | 30.4 | 27.9 | 26.8 | 26.0 | 25.0 | 22.2 | 21.9 | 19.2 | 17.0 | 15.7 | 13.4 | -2.3s |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | 49.7 | 48.5 | 48.8 | 45.9 | 43.4 | 41.5 | 41.0 | 38.3 | 37.8 | 35.6 | 33.2 | -2.4 |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | 55.2 | 55.8 | 58.4 | 54.7 | 53.6 | 51.8 | 53.4 | 47.9 | 47.0 | 44.4 | 44.2 | 43.6 | -0.6 |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | 63.2 | 67.0 | 63.5 | 62.6 | 65.0 | 66.1 | 60.3 | 63.0 | 58.1 | 57.6 | 64.2 | +6.6 |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | 62.7 | 58.4 | 58.5 | 58.9 | 58.3 | 57.0 | 52.0 | 56.3 | 54.8 | 54.1 | 55.4 | +1.3 |

Alcoholic Beverages

| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | $11.8 \ddagger$ | 10.9 | 10.2 | 9.5 | -0.8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | $22.5 \ddagger$ | 19.7 | 16.9 | 14.3 | -2.7 s |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | $26.4 \ddagger$ | 26.4 | 23.5 | 20.0 | -3.6 ss |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 33.6 $\ddagger$ | 33.8 | 39.1 | 32.8 | -6.3 |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 28.17 | 36.7 | 36.9 | 35.0 | -1.9 |

Cigarettes
Any Use

| Any |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| College Students | 35.6 | 37.3 | 38.8 | 37.6 | 39.3 | 41.4 | 43.6 | 44.3 | 44.5 | 41.3 | 39.0 | 38.3 | 35.2 | 36.7 | 36.0 | 30.9 | 30.7 | 30.0 | 29.9 | 28.1 | 25.8 | 23.4 | 23.2 | 22.6 | -0.5 |
| Young Adults | 37.7 | 37.9 | 37.8 | 38.3 | 38.8 | 40.3 | 41.8 | 41.6 | 41.1 | 40.9 | 41.1 | 39.1 | 38.6 | 39.0 | 39.1 | 36.9 | 36.2 | 35.0 | 33.9 | 33.0 | 31.5 | 29.8 | 29.8 | 27.0 | -2.8 ss |

TABLE 2-2 (cont.)
Trends in Annual Prevalence of Use of Various Drugs for 8th, 10th, and 12th Graders, College Students, and Young Adults (Ages 19-28)
(Entries are percentages.)
2013-
2014
$\underline{1991} 1992 \underline{1993} \underline{1994} \underline{1995} \underline{1996} \underline{1997} \underline{1998} \underline{1999} \underline{2000} \underline{2001} \underline{2002} \underline{2003} \underline{2004} \underline{2005} \underline{2006} \underline{2007} \underline{2008} \underline{2009} \underline{2010} \underline{2011} \underline{2012} \underline{2013} \underline{2014} \quad \underline{c h a n g e}$

| $\text { Bidis }{ }^{\text {p,ff }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8th Grade | - | - | - | - | - | - | - | - | - | 3.9 | 2.7 | 2.7 | 2.0 | 1.7 | 1.6 | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | 6.4 | 4.9 | 3.1 | 2.8 | 2.1 | 1.6 | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | - | - | - | - | - | - | - | - | - | 9.2 | 7.0 | 5.9 | 4.0 | 3.6 | 3.3 | 2.3 | 1.7 | 1.9 | 1.5 | 1.4 | - | - | - | - | - |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Kreteks ${ }^{\text {p,ff }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | 2.6 | 2.6 | 2.0 | 1.9 | 1.4 | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | 6.0 | 4.9 | 3.8 | 3.7 | 2.8 | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | 10.1 | 8.4 | 6.7 | 6.5 | 7.1 | 6.2 | 6.8 | 6.8 | 5.5 | 4.6 | 2.9 | 3.0 | 1.6 | 1.6 | +0.1 |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tobacco using a Hookah ${ }^{\text {s }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 17.1 | 18.5 | 18.3 | 21.4 | 22.9 | +1.5 |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 27.9 | 25.7 | 26.1 | 32.7 | +6.7 s |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20.1 | 19.1 | 20.4 | 23.3 | +2.9 s |
| Small Cigars ${ }^{\text {s }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 23.1 | 19.5 | 19.9 | 20.4 | 18.9 | -1.5 |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 23.6 | 20.3 | 19.0 | 24.2 | +5.2 |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 19.2 | 18.0 | 18.4 | 18.6 | +0.1 |
| Dissolvable Tobacco ${ }^{\text {p,s }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.0 | 1.1 | 1.1 | 0.0 |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.6 | 1.2 | 1.3 | +0.1 |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.5 | 1.6 | 1.9 | 1.1 | -0.8 |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.0 | 0.3 | 0.2 | 0.5 | +0.3 |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.3 | 0.6 | 0.3 | 0.5 | +0.2 |
| Snus ${ }^{\text {p,s }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.4 | 2.0 | 2.2 | +0.2 |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.9 | 5.2 | 4.5 | -0.6 |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7.9 | 7.9 | 7.7 | 5.8 | -1.9 |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.5 | 4.7 | 4.8 | 5.0 | +0.2 |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.1 | 5.7 | 4.8 | 4.8 | 0.0 |
| Steroids ${ }^{\text {y,z }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 1.0 | 1.1 | 0.9 | 1.2 | 1.0 | 0.9 | 1.0 | 1.2 | 1.7 | 1.7 | 1.6 | 1.5 | 1.4 | 1.1 | 1.1 | 0.9 | 0.8 | 0.9 | 0.8 | 0.5 | 0.7 | 0.6 | 0.6 | 0.6 | 0.0 |
| 10th Grade | 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 | -0.1 |
| 12th Grade | 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 | 0.0 |
| College Students | 0.6 | 0.2 | 0.9 | 0.2 | 0.4 | 0.2 | 0.7 | 0.2 | 0.9 | 0.1 | 0.6 | 0.5 | 0.3 | 0.6 | 0.5 | 0.8 | 0.6 | 0.1 | 0.7 | 0.3 | 0.2 | 0.3 | 0.8 | 0.5 | -0.3 |
| Young Adults | 0.5 | 0.4 | 0.3 | 0.4 | 0.5 | 0.3 | 0.5 | 0.4 | 0.6 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.3 | 0.7 | 0.4 | 0.7 | 0.8 | 0.2 | 0.4 | 0.5 | 0.7 | +0.2 |
| Bath Salts (Synthetic stimulants) ${ }^{\text {p,q }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.8 | 1.0 | 0.5 | -0.5 s |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.6 | 0.9 | 0.9 | -0.1 |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.3 | 0.9 | 0.9 | 0.0 |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.3 | 0.1 | 0.2 | +0.1 |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.5 | 0.4 | 0.4 | 0.0 |

[^18]See footnotes following Table 2-4.

TABLE 2-3

## Trends in 30-Day Prevalence of Use of Various Drugs for 8th, 10th, and 12th Graders, College Students, and Young Adults (Ages 19-28)

(Entries are percentages.)
2013-
2014
$1991 \underline{1992} \underline{1993} \underline{1994} \underline{1995} \underline{1996} \underline{1997} \underline{1998} \underline{1999} \underline{2000} \underline{2001} \underline{2002} \underline{2003} \underline{2004} \underline{2005} \underline{2006} \underline{2007} \underline{2008} \underline{2009} \underline{2010} \underline{2011} \underline{2012} \underline{2013} \underline{2014} \quad \underline{c h a n g e}$
Any Illicit Drug ${ }^{\text {a }}$
8th Grade
10th Grade
12th Grade
College Students
Young Adults

Any Illicit Drug other
than Marijuana a ${ }^{\text {a,b }}$
8th Grade
10th Grade
12th Grade
College Students
Young Adults
$\begin{array}{lllllllllllllllllllllllllllllll}5.7 & 6.8 & 8.4 & 10.9 & 12.4 & 14.6 & 12.9 & 12.1 & 12.2 & 11.9 & 11.7 & 10.4 & 9.7 & 8.4 & 8.5 & 8.1 & 7.4 & 7.6 & 8.1 & 9.5 & 8.5 & 7.7 \ddagger & 8.7 & 8.3 & -0.4\end{array}$ $\begin{array}{llllllllllllllllllllllllll}11.6 & 11.0 & 14.0 & 18.5 & 20.2 & 23.2 & 23.0 & 21.5 & 22.1 & 22.5 & 22.7 & 20.8 & 19.5 & 18.3 & 17.3 & 16.8 & 16.9 & 15.8 & 17.8 & 18.5 & 19.2 & 18.6 \ddagger & 19.2 & 18.5 & -0.7\end{array}$ $\begin{array}{lllllllllllllllllllllll}16.4 & 14.4 & 18.3 & 21.9 & 23.8 & 24.6 & 26.2 & 25.6 & 25.9 & 24.9 & 25.7 & 25.4 & 24.1 & 23.4 & 23.1 & 21.5 & 21.9 & 22.3 & 23.3 & 23.8 & 25.2 & 25.2 \ddagger & 25.2 \\ 23.7 & -1.5\end{array}$
$\begin{array}{llllllllllllllllllllllll}15.2 & 16.1 & 15.1 & 16.0 & 19.1 & 17.6 & 19.2 & 19.7 & 21.6 & 21.5 & 21.9 & 21.5 & 21.4 & 21.2 & 19.5 & 19.2 & 19.3 & 18.9 & 20.7 & 19.2 & 21.4 & 22.3 \ddagger & 22.8 & 22.7 \\ -0.1\end{array}$ $\begin{array}{lllllllllllllllllllllll}15.1 & 14.8 & 14.9 & 15.3 & 15.8 & 15.8 & 16.4 & 16.1 & 17.1 & 18.1 & 18.8 & 18.9 & 19.9 & 19.1 & 18.6 & 18.5 & 18.9 & 19.3 & 19.8 & 18.9 & 20.6 & 19.9 \ddagger & 21.6 \\ 22.3 & +0.7\end{array}$

| Any Illicit Drug other than Marijuana ${ }^{\text {a,b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8th Grade | 3.8 | 4.7 | 5.3 | 5.6 | 6.5 | 6.9 | 6.0 | 5.5 | 5.5 | $5.6 \ddagger$ | 5.5 | 4.7 | 4.7 | 4.1 | 4.1 | 3.8 | 3.6 | 3.8 | 3.5 | 3.5 | 3.4 | $2.6 \ddagger$ | 3.6 | 3.3 | -0.2 |
| 10th Grade | 5.5 | 5.7 | 6.5 | 7.1 | 8.9 | 8.9 | 8.8 | 8.6 | 8.6 | $8.5 \ddagger$ | 8.7 | 8.1 | 6.9 | 6.9 | 6.4 | 6.3 | 6.9 | 5.3 | 5.7 | 5.8 | 5.4 | $5.0 \ddagger$ | 4.9 | 5.6 | +0.7 |
| 12th Grade | 7.1 | 6.3 | 7.9 | 8.8 | 10.0 | 9.5 | 10.7 | 10.7 | 10.4 | $10.4 \ddagger$ | 11.0 | 11.3 | 10.4 | 10.8 | 10.3 | 9.8 | 9.5 | 9.3 | 8.6 | 8.6 | 8.9 | $8.4 \ddagger$ | 8.2 | 7.7 | -0.5 |
| College Students | 4.3 | 4.6 | 5.4 | 4.6 | 6.3 | 4.5 | 6.8 | 6.1 | 6.4 | $6.9 \ddagger$ | 7.5 | 7.8 | 8.2 | 9.1 | 8.2 | 8.2 | 8.1 | 7.3 | 8.4 | 8.1 | 8.2 | $7.8 \ddagger$ | 8.8 | 10.0 | +1.2 |
| Young Adults | 5.4 | 5.5 | 4.9 | 5.3 | 5.7 | 4.7 | 5.5 | 5.5 | 6.0 | $6.4 \ddagger$ | 7.0 | 7.7 | 8.3 | 8.5 | 8.2 | 8.1 | 8.6 | 8.9 | 8.5 | 8.6 | 8.4 | $7.8 \ddagger$ | 8.3 | 9.9 | +1.7 s |

Any Illicit Drug
including
Inhalants ${ }^{\text {a,c,d }}$

$\begin{array}{lllllllllllllllllllllllllllllllllll}\text { 8th Grade } & 8.8 & 10.0 & 12.0 & 14.3 & 16.1 & 17.5 & 16.0 & 14.9 & 15.1 & 14.4 & 14.0 & 12.6 & 12.1 & 11.2 & 11.2 & 10.9 & 10.1 & 10.4 & 10.6 & 11.7 & 10.5 & 9.5 \ddagger & 10.0 & 9.5 & -0.4\end{array}$ $\begin{array}{lllllllllllllllllllllllllll}10.5 & 12.0 \\ \text { 10th Grade } & 13.1 & 12.6 & 15.5 & 20.0 & 21.6 & 24.5 & 24.1 & 22.5 & 23.1 & 23.6 & 23.6 & 21.7 & 20.5 & 19.3 & 18.4 & 17.7 & 18.1 & 16.8 & 18.8 & 19.4 & 20.1 & 19.3 \ddagger & 20.0 & 19.1 & -0.9\end{array}$ | 12th Grade | 17.8 | 15.5 | 19.3 | 23.0 | 24.8 | 25.5 | 26.9 | 26.6 | 26.4 | 26.4 | 26.5 | 25.9 | 24.6 | 23.3 | 24.2 | 22.1 | 22.8 | 22.8 | 24.1 | 24.5 | 26.2 | $25.2 \ddagger$ | 26.5 | 24.3 | -2.2 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | $\begin{array}{llllllllllllllllllllllllllll}\text { College Students } & 15.1 & 16.5 & 15.7 & 16.4 & 19.6 & 18.0 & 19.6 & 21.0 & 21.8 & 22.6 & 21.9 & 21.9 & 21.6 & 21.7 & 19.0 & 19.7 & 18.1 & 18.9 & 21.3 & 20.5 & 20.6 & 20.0 \ddagger & 23.5 & 21.1 & -2.4\end{array}$ $\begin{array}{llllllllllllllllllllllllll}\text { Young Adults } & 15.4 & 15.3 & 15.1 & 16.1 & 16.1 & 16.4 & 16.9 & 16.7 & 17.4 & 18.8 & 19.2 & 19.5 & 20.1 & 19.6 & 18.0 & 18.4 & 19.1 & 19.3 & 20.3 & 19.6 & 20.3 & 19.1 \pm & 23.5 & 20.9 & -2.6\end{array}$


| Marijuana/Hashish |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8th Grade | 3.2 | 3.7 | 5.1 | 7.8 | 9.1 | 11.3 | 10.2 | 9.7 | 9.7 | 9.1 | 9.2 | 8.3 | 7.5 | 6.4 | 6.6 | 6.5 | 5.7 | 5.8 | 6.5 | 8.0 | 7.2 | 6.5 | 7.0 | 6.5 | -0.5 |
| 10th Grade | 8.7 | 8.1 | 10.9 | 15.8 | 17.2 | 20.4 | 20.5 | 18.7 | 19.4 | 19.7 | 19.8 | 17.8 | 17.0 | 15.9 | 15.2 | 14.2 | 14.2 | 13.8 | 15.9 | 16.7 | 17.6 | 17.0 | 18.0 | 16.6 | -1.4 |
| 12th Grade | 13.8 | 11.9 | 15.5 | 19.0 | 21.2 | 21.9 | 23.7 | 22.8 | 23.1 | 21.6 | 22.4 | 21.5 | 21.2 | 19.9 | 19.8 | 18.3 | 18.8 | 19.4 | 20.6 | 21.4 | 22.6 | 22.9 | 22.7 | 21.2 | -1.6 |
| College Students | 14.1 | 14.6 | 14.2 | 15.1 | 18.6 | 17.5 | 17.7 | 18.6 | 20.7 | 20.0 | 20.2 | 19.7 | 19.3 | 18.9 | 17.1 | 16.7 | 16.8 | 17.0 | 18.5 | 17.5 | 19.4 | 20.5 | 20.6 | 20.8 | +0.2 |
| Young Adults | 13.5 | 13.3 | 13.4 | 14.1 | 14.0 | 15.1 | 15.0 | 14.9 | 15.6 | 16.1 | 16.7 | 16.9 | 17.3 | 16.5 | 15.8 | 15.7 | 16.0 | 16.0 | 17.0 | 16.1 | 18.3 | 17.7 | 19.0 | 19.2 | +0.2 |


| Synthetic Marijuana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.4 | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.8 | - |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.7 | - |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.0 | - |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.4 | - |
| Inhalants ${ }^{\text {e,d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 4.4 | 4.7 | 5.4 | 5.6 | 6.1 | 5.8 | 5.6 | 4.8 | 5.0 | 4.5 | 4.0 | 3.8 | 4.1 | 4.5 | 4.2 | 4.1 | 3.9 | 4.1 | 3.8 | 3.6 | 3.2 | 2.7 | 2.3 | 2.2 | -0.1 |
| 10th Grade | 2.7 | 2.7 | 3.3 | 3.6 | 3.5 | 3.3 | 3.0 | 2.9 | 2.6 | 2.6 | 2.4 | 2.4 | 2.2 | 2.4 | 2.2 | 2.3 | 2.5 | 2.1 | 2.2 | 2.0 | 1.7 | 1.4 | 1.3 | 1.1 | -0.3 |
| 12th Grade | 2.4 | 2.3 | 2.5 | 2.7 | 3.2 | 2.5 | 2.5 | 2.3 | 2.0 | 2.2 | 1.7 | 1.5 | 1.5 | 1.5 | 2.0 | 1.5 | 1.2 | 1.4 | 1.2 | 1.4 | 1.0 | 0.9 | 1.0 | 0.7 | -0.2 |
| College Students | 0.9 | 1.1 | 1.3 | 0.6 | 1.6 | 0.8 | 0.8 | 0.6 | 1.5 | 0.9 | 0.4 | 0.7 | 0.4 | 0.4 | 0.3 | 0.4 | 0.1 | 0.4 | 0.1 | 0.5 | 0.3 | 0.2 | 0.1 | 0.3 | +0.2 |
| Young Adults | 0.5 | 0.6 | 0.7 | 0.5 | 0.7 | 0.5 | 0.5 | 0.7 | 0.8 | 0.5 | 0.4 | 0.5 | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | 0.4 | 0.2 | 0.1 | 0.1 | 0.3 | 0.1 | 0.3 | +0.1 |
| Nitrites ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | 0.4 | 0.3 | 0.6 | 0.4 | 0.4 | 0.7 | 0.7 | 1.0 | 0.4 | 0.3 | 0.5 | 0.6 | 0.7 | 0.7 | 0.5 | 0.3 | 0.5 | 0.3 | 0.6 | - | - | - | - | - | - |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | * | 0.1 | 0.2 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hallucinogens ${ }^{\text {b,f }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 0.8 | 1.1 | 1.2 | 1.3 | 1.7 | 1.9 | 1.8 | 1.4 | 1.3 | $1.2 \ddagger$ | 1.6 | 1.2 | 1.2 | 1.0 | 1.1 | 0.9 | 1.0 | 0.9 | 0.9 | 1.0 | 1.0 | 0.6 | 0.8 | 0.5 | -0.3 |
| 10th Grade | 1.6 | 1.8 | 1.9 | 2.4 | 3.3 | 2.8 | 3.3 | 3.2 | 2.9 | $2.3 \ddagger$ | 2.1 | 1.6 | 1.5 | 1.6 | 1.5 | 1.5 | 1.7 | 1.3 | 1.4 | 1.6 | 1.4 | 1.2 | 1.1 | 1.2 | 0.0 |
| 12th Grade | 2.2 | 2.1 | 2.7 | 3.1 | 4.4 | 3.5 | 3.9 | 3.8 | 3.5 | $2.6 \pm$ | 3.3 | 2.3 | 1.8 | 1.9 | 1.9 | 1.5 | 1.7 | 2.2 | 1.6 | 1.9 | 1.6 | 1.6 | 1.4 | 1.5 | +0.1 |
| College Students | 1.2 | 2.3 | 2.5 | 2.1 | 3.3 | 1.9 | 2.1 | 2.1 | 2.0 | $1.4 \ddagger$ | 1.8 | 1.2 | 1.8 | 1.3 | 1.2 | 0.9 | 1.3 | 1.7 | 1.0 | 1.4 | 1.2 | 1.1 | 1.0 | 1.0 | 0.0 |
| Young Adults | 1.1 | 1.5 | 1.2 | 1.4 | 1.7 | 1.2 | 1.5 | 1.4 | 1.3 | $1.2 \ddagger$ | 1.2 | 0.9 | 1.2 | 0.9 | 0.8 | 0.7 | 0.9 | 0.9 | 0.8 | 1.0 | 0.9 | 0.6 | 1.0 | 0.9 | -0.1 |
| LSD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 0.6 | 0.9 | 1.0 | 1.1 | 1.4 | 1.5 | 1.5 | 1.1 | 1.1 | 1.0 | 1.0 | 0.7 | 0.6 | 0.5 | 0.5 | 0.4 | 0.5 | 0.5 | 0.5 | 0.6 | 0.5 | 0.3 | 0.5 | 0.3 | -0.2 |
| 10th Grade | 1.5 | 1.6 | 1.6 | 2.0 | 3.0 | 2.4 | 2.8 | 2.7 | 2.3 | 1.6 | 1.5 | 0.7 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.5 | 0.7 | 0.7 | 0.5 | 0.6 | 0.6 | 0.0 |
| 12th Grade | 1.9 | 2.0 | 2.4 | 2.6 | 4.0 | 2.5 | 3.1 | 3.2 | 2.7 | 1.6 | 2.3 | 0.7 | 0.6 | 0.7 | 0.7 | 0.6 | 0.6 | 1.1 | 0.5 | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | +0.3 |
| College Students | 0.8 | 1.8 | 1.6 | 1.8 | 2.5 | 0.9 | 1.1 | 1.5 | 1.2 | 0.9 | 1.0 | 0.2 | 0.2 | 0.2 | 0.1 | 0.3 | 0.3 | 0.8 | 0.3 | 0.7 | 0.5 | 0.4 | 0.4 | 0.5 | +0.1 |
| Young Adults | 0.8 | 1.1 | 0.8 | 1.1 | 1.3 | 0.7 | 0.9 | 1.0 | 0.8 | 0.8 | 0.7 | 0.3 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.4 | 0.2 | 0.4 | 0.3 | 0.3 | 0.4 | 0.4 | 0.0 |

TABLE 2-3 (cont.)
Trends in 30-Day Prevalence of Use of Various Drugs for 8th, 10th, and 12th Graders, College Students, and Young Adults (Ages 19-28)
(Entries are percentages.)
2013-
2014
$1991 \underline{1992} \underline{1993} \underline{1994} \underline{1995} \underline{1996} \underline{1997} \underline{1998} \underline{1999} \underline{2000} \underline{2001} \underline{2002} \underline{2003} \underline{2004} \underline{2005} \underline{2006} \underline{2007} \underline{2008} \underline{2009} \underline{2010} \underline{2011} \underline{2012} \underline{2013} \underline{2014} \quad \underline{c h a n g e}$

| Hallucinogens other than LSD ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8th Grade | 0.3 | 0.4 | 0.5 | 0.7 | 0.8 | 0.9 | 0.7 | 0.7 | 0.6 | 0.6 $\ddagger$ | 1.1 | 1.0 | 1.0 | 0.8 | 0.9 | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.7 | 0.5 | 0.5 | 0.4 | -0.1 |
| 10th Grade | 0.4 | 0.5 | 0.7 | 1.0 | 1.0 | 1.0 | 1.2 | 1.4 | 1.2 | $1.2 \ddagger$ | 1.4 | 1.4 | 1.2 | 1.4 | 1.3 | 1.3 | 1.4 | 1.0 | 1.1 | 1.2 | 1.1 | 0.9 | 0.8 | 0.8 | 0.0 |
| 12th Grade | 0.7 | 0.5 | 0.8 | 1.2 | 1.3 | 1.6 | 1.7 | 1.6 | 1.6 | $1.7 \ddagger$ | 1.9 | 2.0 | 1.5 | 1.7 | 1.6 | 1.3 | 1.4 | 1.6 | 1.4 | 1.5 | 1.2 | 1.3 | 1.0 | 1.0 | 0.0 |
| College Students | 0.6 | 0.7 | 1.1 | 0.8 | 1.6 | 1.2 | 1.2 | 0.7 | 1.2 | 0.8 $\ddagger$ | 0.8 | 1.1 | 1.7 | 1.2 | 1.1 | 0.7 | 1.1 | 1.3 | 0.8 | 1.2 | 0.8 | 0.7 | 0.8 | 0.7 | -0.2 |
| Young Adults | 0.3 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.5 | 0.6 | 0.7 $\ddagger$ | 0.6 | 0.8 | 1.2 | 0.9 | 0.8 | 0.6 | 0.8 | 0.7 | 0.7 | 0.8 | 0.6 | 0.4 | 0.7 | 0.6 | -0.1 |
| PCP ${ }^{9}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | 0.5 | 0.6 | 1.0 | 0.7 | 0.6 | 1.3 | 0.7 | 1.0 | 0.8 | 0.9 | 0.5 | 0.4 | 0.6 | 0.4 | 0.7 | 0.4 | 0.5 | 0.6 | 0.5 | 0.8 | 0.8 | 0.5 | 0.4 | - | - |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | 0.1 | 0.2 | 0.2 | 0.1 | * | 0.1 | 0.1 | 0.2 | 0.2 | * | * | 0.1 | 0.1 | 0.1 | * | * | * | 0.1 | * | 0.0 | 0.1 | 0.0 | 0.2 | 0.1 | 0.0 |
| Ecstasy (MDMA) ${ }^{\text {h }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | 1.0 | 1.0 | 0.9 | 0.8 | 1.4 | 1.8 | 1.4 | 0.7 | 0.8 | 0.6 | 0.7 | 0.6 | 0.8 | 0.6 | 1.1 | 0.6 | 0.5 | 0.5 | 0.4 | -0.1 |
| 10th Grade | - | - | - | - | - | 1.8 | 1.3 | 1.3 | 1.8 | 2.6 | 2.6 | 1.8 | 1.1 | 0.8 | 1.0 | 1.2 | 1.2 | 1.1 | 1.3 | 1.9 | 1.6 | 1.0 | 1.2 | 0.8 | -0.5 s |
| 12th Grade | - | - | - | - | - | 2.0 | 1.6 | 1.5 | 2.5 | 3.6 | 2.8 | 2.4 | 1.3 | 1.2 | 1.0 | 1.3 | 1.6 | 1.8 | 1.8 | 1.4 | 2.3 | 0.9 | 1.5 | 1.4 | -0.1 |
| College Students | 0.2 | 0.4 | 0.3 | 0.2 | 0.7 | 0.7 | 0.8 | 0.8 | 2.1 | 2.5 | 1.5 | 0.7 | 1.0 | 0.7 | 0.8 | 0.6 | 0.4 | 0.6 | 0.5 | 1.0 | 0.7 | 1.4 | 0.8 | 1.4 | +0.6 |
| Young Adults | 0.1 | 0.3 | 0.3 | 0.2 | 0.4 | 0.3 | 0.6 | 0.8 | 1.3 | 1.9 | 1.8 | 1.3 | 0.8 | 0.6 | 0.6 | 0.7 | 0.5 | 0.6 | 0.6 | 0.8 | 0.7 | 1.0 | 1.1 | 1.3 | +0.3 |
| Cocaine |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 0.5 | 0.7 | 0.7 | 1.0 | 1.2 | 1.3 | 1.1 | 1.4 | 1.3 | 1.2 | 1.2 | 1.1 | 0.9 | 0.9 | 1.0 | 1.0 | 0.9 | 0.8 | 0.8 | 0.6 | 0.8 | 0.5 | 0.5 | 0.5 | 0.0 |
| 10th Grade | 0.7 | 0.7 | 0.9 | 1.2 | 1.7 | 1.7 | 2.0 | 2.1 | 1.8 | 1.8 | 1.3 | 1.6 | 1.3 | 1.7 | 1.5 | 1.5 | 1.3 | 1.2 | 0.9 | 0.9 | 0.7 | 0.8 | 0.8 | 0.6 | -0.2 |
| 12th Grade | 1.4 | 1.3 | 1.3 | 1.5 | 1.8 | 2.0 | 2.3 | 2.4 | 2.6 | 2.1 | 2.1 | 2.3 | 2.1 | 2.3 | 2.3 | 2.5 | 2.0 | 1.9 | 1.3 | 1.3 | 1.1 | 1.1 | 1.1 | 1.0 | -0.1 |
| College Students | 1.0 | 1.0 | 0.7 | 0.6 | 0.7 | 0.8 | 1.6 | 1.6 | 1.2 | 1.4 | 1.9 | 1.6 | 1.9 | 2.4 | 1.8 | 1.8 | 1.7 | 1.2 | 1.3 | 1.0 | 1.2 | 1.1 | 0.9 | 1.8 | +1.0 s |
| Young Adults | 2.0 | 1.8 | 1.4 | 1.3 | 1.5 | 1.2 | 1.6 | 1.7 | 1.9 | 1.7 | 2.2 | 2.2 | 2.4 | 2.2 | 2.2 | 2.3 | 2.1 | 1.9 | 1.8 | 1.4 | 1.5 | 1.3 | 1.5 | 1.8 | +0.3 |
| Crack ${ }^{\text { }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 0.3 | 0.5 | 0.4 | 0.7 | 0.7 | 0.8 | 0.7 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.4 | 0.5 | 0.3 | 0.3 | 0.3 | 0.0 |
| 10th Grade | 0.3 | 0.4 | 0.5 | 0.6 | 0.9 | 0.8 | 0.9 | 1.1 | 0.8 | 0.9 | 0.7 | 1.0 | 0.7 | 0.8 | 0.7 | 0.7 | 0.5 | 0.5 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 | 0.3 | -0.1 |
| 12th Grade | 0.7 | 0.6 | 0.7 | 0.8 | 1.0 | 1.0 | 0.9 | 1.0 | 1.1 | 1.0 | 1.1 | 1.2 | 0.9 | 1.0 | 1.0 | 0.9 | 0.9 | 0.8 | 0.6 | 0.7 | 0.5 | 0.6 | 0.6 | 0.7 | 0.0 |
| College Students | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 0.3 | 0.4 | 0.4 | 0.1 | * | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.3 | 0.1 | -0.2 |
| Young Adults | 0.4 | 0.4 | 0.4 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 |
| Other Cocaine ${ }^{j}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 0.5 | 0.5 | 0.6 | 0.9 | 1.0 | 1.0 | 0.8 | 1.0 | 1.1 | 0.9 | 0.9 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 | 0.6 | 0.7 | 0.5 | 0.6 | 0.3 | 0.3 | 0.4 | 0.0 |
| 10th Grade | 0.6 | 0.6 | 0.7 | 1.0 | 1.4 | 1.3 | 1.6 | 1.8 | 1.6 | 1.6 | 1.2 | 1.3 | 1.1 | 1.5 | 1.3 | 1.3 | 1.1 | 1.0 | 0.8 | 0.7 | 0.6 | 0.7 | 0.7 | 0.5 | -0.2 |
| 12th Grade | 1.2 | 1.0 | 1.2 | 1.3 | 1.3 | 1.6 | 2.0 | 2.0 | 2.5 | 1.7 | 1.8 | 1.9 | 1.8 | 2.2 | 2.0 | 2.4 | 1.7 | 1.7 | 1.1 | 1.1 | 1.0 | 1.0 | 0.9 | 0.9 | 0.0 |
| College Students | 1.0 | 0.9 | 0.6 | 0.3 | 0.8 | 0.6 | 1.3 | 1.5 | 1.0 | 0.9 | 1.5 | 1.4 | 1.9 | 2.2 | 1.8 | 1.3 | 1.6 | 1.1 | 1.2 | 1.0 | 1.2 | 1.3 | 0.9 | 1.8 | +0.9 |
| Young Adults | 1.8 | 1.7 | 1.1 | 1.0 | 1.3 | 1.1 | 1.5 | 1.5 | 1.6 | 1.5 | 1.8 | 2.0 | 2.1 | 2.1 | 1.9 | 1.9 | 2.0 | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 | 1.3 | 1.8 | +0.5 |
| Heroin ${ }^{\text {k }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 0.3 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.6 | 0.6 | 0.6 | 0.5 | 0.6 | 0.5 | 0.4 | 0.5 | 0.5 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.2 | 0.3 | 0.3 | 0.0 |
| 10th Grade | 0.2 | 0.2 | 0.3 | 0.4 | 0.6 | 0.5 | 0.6 | 0.7 | 0.7 | 0.5 | 0.3 | 0.5 | 0.3 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.4 | +0.1 |
| 12th Grade | 0.2 | 0.3 | 0.2 | 0.3 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.7 | 0.4 | 0.5 | 0.4 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 | +0.1 |
| College Students | 0.1 | * | * | * | 0.1 | * | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | * | * | 0.1 | 0.1 | 0.2 | 0.1 | * | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.0 | -0.2 |
| Young Adults | * | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | * | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | -0.2 |
| With a Needle ${ }^{\text {' }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | 0.4 | 0.5 | 0.4 | 0.5 | 0.4 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 |
| 10th Grade | - | - | - | - | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | +0.1 |
| 12th Grade | - | - | - | - | 0.3 | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 0.4 | 0.4 | 0.3 | 0.2 | 0.3 | +0.1 |
| College Students | - | - | - | - | * | * | 0.1 | * | 0.1 | 0.1 | * | * | 0.1 | 0.1 | 0.1 | 0.1 | * | 0.0 | 0.1 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | -0.1 |
| Young Adults | - | - | - | - | * | * | 0.1 | * | 0.1 | * | 0.2 | * | * | 0.1 | 0.1 | 0.1 | * | * | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.1 | -0.1 |

TABLE 2-3 (cont.)
Trends in 30-Day Prevalence of Use of Various Drugs for 8th, 10th, and 12th Graders, College Students, and Young Adults (Ages 19-28)
(Entries are percentages.)
2013-
2014
$1991 \underline{1992} \underline{1993} \underline{1994} \underline{1995} \underline{1996} \underline{1997} \underline{1998} \underline{1999} \underline{2000} \underline{2001} \underline{2002} \underline{2003} \underline{2004} \underline{2005} \underline{2006} \underline{2007} \underline{2008} \underline{2009} \underline{2010} \underline{2011} \underline{2012} \underline{2013} \underline{2014} \quad \underline{c h a n g e}$

| Without a Needle |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8th Grade | - | - | - | - | 0.3 | 0.4 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 | -0.1 |
| 10th Grade | - | - | - | - | 0.3 | 0.3 | 0.4 | 0.5 | 0.5 | 0.4 | 0.2 | 0.4 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 |
| 12th Grade | - | - | - | - | 0.6 | 0.4 | 0.6 | 0.4 | 0.4 | 0.7 | 0.3 | 0.5 | 0.4 | 0.3 | 0.5 | 0.3 | 0.4 | 0.2 | 0.3 | 0.4 | 0.4 | 0.2 | 0.2 | 0.4 | +0.1 |
| College Students | - | - | - | - | * | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.3 | * | * | 0.3 | * | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.3 | 0.0 | -0.3 |
| Young Adults | - | - | - | - | 0.1 | * | 0.1 | 0.2 | 0.2 | 0.2 | 0.4 | * | 0.1 | 0.1 | 0.1 | 0.3 | 0.2 | * | 0.3 | 0.1 | 0.1 | 0.1 | 0.4 | 0.1 | -0.3 |
| Narcotics other than Heroin ${ }^{m, n}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | 1.1 | 1.2 | 1.3 | 1.5 | 1.8 | 2.0 | 2.3 | 2.4 | 2.6 | 2.9 | $3.0 \ddagger$ | 4.0 | 4.1 | 4.3 | 3.9 | 3.8 | 3.8 | 3.8 | 4.1 | 3.6 | 3.6 | 3.0 | 2.8 | 2.2 | -0.6 ss |
| College Students | 0.6 | 1.0 | 0.7 | 0.4 | 1.2 | 0.7 | 1.3 | 1.1 | 1.0 | 1.7 | 1.7 $\ddagger$ | 3.2 | 2.3 | 3.0 | 3.1 | 3.1 | 2.2 | 2.3 | 2.7 | 2.3 | 2.1 | 2.2 | 1.5 | 1.2 | -0.4 |
| Young Adults | 0.6 | 0.7 | 0.7 | 0.6 | 0.9 | 0.7 | 0.9 | 0.9 | 1.2 | 1.4 | 1.7 $\ddagger$ | 2.9 | 2.9 | 3.0 | 3.5 | 3.2 | 3.4 | 3.6 | 3.2 | 3.4 | 2.9 | 2.7 | 2.6 | 2.1 | -0.5 |
| Amphetamines ${ }^{\text {m,o }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 2.6 | 3.3 | 3.6 | 3.6 | 4.2 | 4.6 | 3.8 | 3.3 | 3.4 | 3.4 | 3.2 | 2.8 | 2.7 | 2.3 | 2.3 | 2.1 | 2.0 | 2.2 | 1.9 | 1.8 | 1.8 | $1.3 \ddagger$ | 2.3 | 2.1 | -0.2 |
| 10th Grade | 3.3 | 3.6 | 4.3 | 4.5 | 5.3 | 5.5 | 5.1 | 5.1 | 5.0 | 5.4 | 5.6 | 5.2 | 4.3 | 4.0 | 3.7 | 3.5 | 4.0 | 2.8 | 3.3 | 3.3 | 3.1 | 2.8 $\ddagger$ | 3.3 | 3.7 | +0.4 |
| 12th Grade | 3.2 | 2.8 | 3.7 | 4.0 | 4.0 | 4.1 | 4.8 | 4.6 | 4.5 | 5.0 | 5.6 | 5.5 | 5.0 | 4.6 | 3.9 | 3.7 | 3.7 | 2.9 | 3.0 | 3.3 | 3.7 | 3.3 $\ddagger$ | 4.2 | 3.8 | -0.4 |
| College Students | 1.0 | 1.1 | 1.5 | 1.5 | 2.2 | 0.9 | 2.1 | 1.7 | 2.3 | 2.9 | 3.3 | 3.0 | 3.1 | 3.2 | 2.9 | 2.5 | 3.1 | 2.8 | 3.4 | 4.1 | 4.5 | 4.6 $\ddagger$ | 5.0 | 4.8 | -0.2 |
| Young Adults | 1.5 | 1.5 | 1.5 | 1.7 | 1.7 | 1.5 | 1.7 | 1.7 | 1.9 | 2.3 | 2.4 | 2.5 | 2.5 | 2.4 | 2.1 | 2.2 | 2.3 | 2.2 | 2.5 | 2.9 | 3.0 | 3.2ł | 3.0 | 3.5 | +0.5 |
| Methamphetamine ${ }^{\text {p,q }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | 1.1 | 0.8 | 1.3 | 1.1 | 1.2 | 0.6 | 0.7 | 0.6 | 0.6 | 0.7 | 0.5 | 0.7 | 0.4 | 0.5 | 0.4 | 0.2 | -0.2 |
| 10th Grade | - | - | - | - | - | - | - | - | 1.8 | 2.0 | 1.5 | 1.8 | 1.4 | 1.3 | 1.1 | 0.7 | 0.4 | 0.7 | 0.6 | 0.7 | 0.5 | 0.6 | 0.4 | 0.3 | 0.0 |
| 12th Grade | - | - | - | - | - | - | - | - | 1.7 | 1.9 | 1.5 | 1.7 | 1.7 | 1.4 | 0.9 | 0.9 | 0.6 | 0.6 | 0.5 | 0.5 | 0.6 | 0.5 | 0.4 | 0.5 | +0.1 |
| College Students | - | - | - | - | - | - | - | - | 1.2 | 0.2 | 0.5 | 0.2 | 0.6 | 0.2 | 0.1 | 0.2 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | +0.1 |
| Young Adults | - | - | - | - | - | - | - | - | 0.8 | 0.7 | 1.0 | 1.0 | 0.7 | 0.6 | 0.7 | 0.5 | 0.6 | 0.3 | 0.3 | 0.2 | 0.3 | 0.4 | 0.2 | 0.3 | +0.1 |
| Crystal Methamphetamine (Ice) ${ }^{\text {q }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | 0.6 | 0.5 | 0.6 | 0.7 | 1.1 | 1.1 | 0.8 | 1.2 | 0.8 | 1.0 | 1.1 | 1.2 | 0.8 | 0.8 | 0.9 | 0.7 | 0.6 | 0.6 | 0.5 | 0.6 | 0.6 | 0.4 | 0.8 | 0.4 | -0.3 |
| College Students | * | * | 0.3 | 0.5 | 0.3 | 0.1 | 0.2 | 0.3 | * | * | 0.1 | * | 0.3 | 0.1 | 0.2 | * | 0.1 | 0.0 | 0.0 | 0.2 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 |
| Young Adults | * | 0.1 | 0.3 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.6 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.1 | -0.3 |

Sedatives

| (Barbiturates) ${ }^{\text {m,r}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | 1.4 | 1.1 | 1.3 | 1.7 | 2.2 | 2.1 | 2.1 | 2.6 | 2.6 | 3.0 | 2.8 | 3.2 | $2.9 \ddagger$ | 2.9 | 3.3 | 3.0 | 2.7 | 2.8 | 2.5 | 2.2 | 1.8 | 2.0 | 2.2 | 2.0 | -0.2 |
| College Students | 0.3 | 0.7 | 0.4 | 0.4 | 0.5 | 0.8 | 1.2 | 1.1 | 1.1 | 1.1 | 1.5 | 1.7 | 1.7 | 1.5 | 1.3 | 1.3 | 1.4 | 1.4 | 1.2 | 0.6 | 0.8 | 0.8 $\ddagger$ | 0.9 | 0.7 | -0.1 |
| Young Adults | 0.5 | 0.5 | 0.6 | 0.6 | 0.8 | 0.8 | 0.9 | 0.9 | 1.1 | 1.3 | 1.7 | 1.5 | 1.5 | 1.8 | 1.7 | 1.5 | 1.6 | 1.9 | 1.2 | 1.1 | 1.1 | $1.1 \ddagger$ | 1.2 | 1.0 | -0.2 |
| Methaqualone ${ }^{\mathrm{m}, \mathrm{s}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | 0.2 | 0.4 | 0.1 | 0.4 | 0.4 | 0.6 | 0.3 | 0.6 | 0.4 | 0.2 | 0.5 | 0.3 | 0.4 | 0.5 | 0.5 | 0.4 | 0.4 | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 | - | - | - |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tranquilizers ${ }^{\text {b,m }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 0.8 | 0.8 | 0.9 | 1.1 | 1.2 | 1.5 | 1.2 | 1.2 | 1.1 | $1.4 \ddagger$ | 1.2 | 1.2 | 1.4 | 1.2 | 1.3 | 1.3 | 1.1 | 1.2 | 1.2 | 1.2 | 1.0 | 0.8 | 0.9 | 0.8 | -0.1 |
| 10th Grade | 1.2 | 1.5 | 1.1 | 1.5 | 1.7 | 1.7 | 2.2 | 2.2 | 2.2 | $2.5 \ddagger$ | 2.9 | 2.9 | 2.4 | 2.3 | 2.3 | 2.4 | 2.6 | 1.9 | 2.0 | 2.2 | 1.9 | 1.7 | 1.6 | 1.6 | 0.0 |
| 12th Grade | 1.4 | 1.0 | 1.2 | 1.4 | 1.8 | 2.0 | 1.8 | 2.4 | 2.5 | $2.6 \ddagger$ | 2.9 | 3.3 | 2.8 | 3.1 | 2.9 | 2.7 | 2.6 | 2.6 | 2.7 | 2.5 | 2.3 | 2.1 | 2.0 | 2.1 | +0.1 |
| College Students | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.7 | 1.2 | 1.3 | 1.1 | $2.0 \ddagger$ | 1.5 | 3.0 | 2.8 | 2.7 | 2.2 | 2.1 | 1.8 | 1.6 | 2.2 | 1.3 | 1.6 | 1.1 | 1.2 | 1.7 | +0.5 |
| Young Adults | 0.9 | 1.0 | 1.0 | 0.8 | 1.1 | 0.7 | 1.1 | 1.2 | 1.3 | $1.8 \ddagger$ | 2.1 | 2.8 | 2.4 | 2.7 | 2.6 | 2.3 | 2.8 | 2.7 | 2.8 | 2.2 | 2.3 | 1.9 | 1.9 | 1.9 | 0.0 |

TABLE 2-3 (cont.)
Trends in 30-Day Prevalence of Use of Various Drugs for 8th, 10th, and 12th Graders, College Students, and Young Adults (Ages 19-28)
(Entries are percentages.)
2013-
2014
$1991 \underline{1992} \underline{1993} \underline{1994} \underline{1995} \underline{1996} \underline{1997} \underline{1998} \underline{1999} \underline{2000} \underline{2001} \underline{2002} \underline{2003} \underline{2004} \underline{\underline{2005}} \underline{\underline{2006}} \underline{\underline{2007}} \underline{\underline{2008}} \underline{\underline{2009} \underline{2010} \underline{2011} \underline{\underline{2012}} \underline{2013} \underline{2014} \text { change }}$ Any Prescription Drug ${ }^{\text {o, }}$

| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10th Grade | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12th Grade | - | - | - | - | - | - | - | - | - |  | - | - | - | - | 8.6 | 8.1 | 7.8 | 7.2 | 7.3 | 6.9 | 7.2 | $7.0 \ddagger$ | 7.1 | 6.4 | -0.7 |
| College Students | - | - | - | - | - | - |  | - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rohypnol ${ }^{\text {u }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | 0.5 | 0.3 | 0.4 | 0.3 | 0.3 | 0.4 | 0.2 | 0.1 | 0.2 | 0.2 | 0.4 | 0.3 | 0.1 | 0.2 | 0.2 | 0.6 | 0.1 | 0.1 | 0.2 | +0.1 |
| 10th Grade | - | - | - | - | - | 0.5 | 0.5 | 0.4 | 0.5 | 0.4 | 0.2 | 0.4 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 0.4 | +0.3 |
| 12th Grade | - | - | - | - | - | 0.5 | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Alcohol ${ }^{\text {V }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Any Use |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 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 | -1.3 |
| 10th Grade | 42.8 | 39.9† | 38.2 | 39.2 | 38.8 | 40.4 | 40.1 | 38.8 | 40.0 | 41.0 | 39.0 | 35.4 | 35.4 | 35.2 | 33.2 | 33.8 | 33.4 | 28.8 | 30.4 | 28.9 | 27.2 | 27.6 | 25.7 | 23.5 | -2.2 s |
| 12th Grade | 54.0 | 51.3 $\ddagger$ | 48.6 | 50.1 | 51.3 | 50.8 | 52.7 | 52.0 | 51.0 | 50.0 | 49.8 | 48.6 | 47.5 | 48.0 | 47.0 | 45.3 | 44.4 | 43.1 | 43.5 | 41.2 | 40.0 | 41.5 | 39.2 | 37.4 | -1.8 |
| College Students | 74.7 | 71.4 | 70.1 | 67.8 | 67.5 | 67.0 | 65.8 | 68.1 | 69.6 | 67.4 | 67.0 | 68.9 | 66.2 | 67.7 | 67.9 | 65.4 | 66.6 | 69.0 | 65.8 | 65.0 | 63.5 | 67.7 | 63.1 | 63.1 | -0.1 |
| Young Adults | 70.6 | 69.0 | 68.3 | 67.7 | 68.1 | 66.7 | 67.5 | 66.9 | 68.2 | 66.8 | 67.0 | 68.3 | 67.0 | 68.4 | 68.6 | 68.7 | 69.5 | 68.9 | 69.4 | 68.4 | 68.8 | 69.5 | 68.7 | 68.4 | -0.3 |
| Been Drunk w |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 7.6 | 7.5 | 7.8 | 8.7 | 8.3 | 9.6 | 8.2 | 8.4 | 9.4 | 8.3 | 7.7 | 6.7 | 6.7 | 6.2 | 6.0 | 6.2 | 5.5 | 5.4 | 5.4 | 5.0 | 4.4 | 3.6 | 3.5 | 2.7 | -0.8 ~ |
| 10th Grade | 20.5 | 18.1 | 19.8 | 20.3 | 20.8 | 21.3 | 22.4 | 21.1 | 22.5 | 23.5 | 21.9 | 18.3 | 18.2 | 18.5 | 17.6 | 18.8 | 18.1 | 14.4 | 15.5 | 14.7 | 13.7 | 14.5 | 12.8 | 11.2 | -1.6 s |
| 12th Grade | 31.6 | 29.9 | 28.9 | 30.8 | 33.2 | 31.3 | 34.2 | 32.9 | 32.9 | 32.3 | 32.7 | 30.3 | 30.9 | 32.5 | 30.2 | 30.0 | 28.7 | 27.6 | 27.4 | 26.8 | 25.0 | 28.1 | 26.0 | 23.5 | -2.5 |
| College Students | 45.0 | 45.0 | 43.8 | 42.8 | 37.9 | 40.3 | 46.4 | 44.3 | 44.6 | 43.9 | 44.7 | 44.4 | 40.4 | 47.4 | 43.1 | 47.6 | 46.8 | 45.3 | 42.4 | 43.6 | 39.9 | 40.1 | 40.2 | 42.6 | +2.3 |
| Young Adults | 35.4 | 35.6 | 34.2 | 34.3 | 33.0 | 33.2 | 35.6 | 34.2 | 37.7 | 35.7 | 36.8 | 37.1 | 37.8 | 39.0 | 39.0 | 42.1 | 41.4 | 40.7 | 40.5 | 39.4 | 39.5 | 39.1 | 37.7 | 39.3 | +1.6 |

Flavored Alcoholic
Beverages ${ }^{9, p}$

| 8th Grade | - |  | - | - |  | - | - |  |  | - |  | - | - | 14.6 | 12.9 | 13.1 | 12.2 | 10.2 | 9.5 | 9.4 | 8.6 | 7.6 | 6.3 | 5.7 | -0.7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | 25.1 | 23.1 | 24.7 | 21.8 | 20.2 | 19.0 | 19.4 | 15.8 | 16.3 | 15.5 | 14.0 | -1.5 |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | 31.1 | 30.5 | 29.3 | 29.1 | 27.4 | 27.4 | 24.1 | 23.1 | 21.8 | 21.0 | 19.9 | -1.1 |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | 34.1 | 30.9 | 26.2 | 27.5 | 35.8 | 32.3 | 31.5 | 29.5 | 31.3 | 29.1 | 32.9 | +3.8 |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | 29.5 | 27.6 | 24.9 | 25.9 | 26.7 | 24.4 | 24.5 | 23.8 | 26.1 | 25.4 | 26.9 | +1.5 |


| Cigarettes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Any Use |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 14.3 | 15.5 | 16.7 | 18.6 | 19.1 | 21.0 | 19.4 | 19.1 | 17.5 | 14.6 | 12.2 | 10.7 | 10.2 | 9.2 | 9.3 | 8.7 | 7.1 | 6.8 | 6.5 | 7.1 | 6.1 | 4.9 | 4.5 | 4.0 | -0.5 |
| 10th Grade | 20.8 | 21.5 | 24.7 | 25.4 | 27.9 | 30.4 | 29.8 | 27.6 | 25.7 | 23.9 | 21.3 | 17.7 | 16.7 | 16.0 | 14.9 | 14.5 | 14.0 | 12.3 | 13.1 | 13.6 | 11.8 | 10.8 | 9.1 | 7.2 | -1.9 ss |
| 12th Grade | 28.3 | 27.8 | 29.9 | 31.2 | 33.5 | 34.0 | 36.5 | 35.1 | 34.6 | 31.4 | 29.5 | 26.7 | 24.4 | 25.0 | 23.2 | 21.6 | 21.6 | 20.4 | 20.1 | 19.2 | 18.7 | 17.1 | 16.3 | 13.6 | -2.7 ss |
| College Students | 23.2 | 23.5 | 24.5 | 23.5 | 26.8 | 27.9 | 28.3 | 30.0 | 30.6 | 28.2 | 25.7 | 26.7 | 22.5 | 24.3 | 23.8 | 19.2 | 19.9 | 17.9 | 17.9 | 16.4 | 15.2 | 12.5 | 14.0 | 12.9 | -1.1 |
| Young Adults | 28.2 | 28.3 | 28.0 | 28.0 | 29.2 | 30.1 | 29.9 | 30.9 | 30.3 | 30.1 | 30.2 | 29.2 | 28.4 | 29.2 | 28.6 | 27.0 | 26.2 | 24.6 | 23.3 | 22.4 | 21.3 | 19.7 | 20.0 | 17.5 | -2.6 ss |
| Smokeless Tobacco ${ }^{\text {x }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 6.9 | 7.0 | 6.6 | 7.7 | 7.1 | 7.1 | 5.5 | 4.8 | 4.5 | 4.2 | 4.0 | 3.3 | 4.1 | 4.1 | 3.3 | 3.7 | 3.2 | 3.5 | 3.7 | 4.1 | 3.5 | 2.8 | 2.8 | 3.0 | +0.1 |
| 10th Grade | 10.0 | 9.6 | 10.4 | 10.5 | 9.7 | 8.6 | 8.9 | 7.5 | 6.5 | 6.1 | 6.9 | 6.1 | 5.3 | 4.9 | 5.6 | 5.7 | 6.1 | 5.0 | 6.5 | 7.5 | 6.6 | 6.4 | 6.4 | 5.3 | -1.2 |
| 12th Grade | - | 11.4 | 10.7 | 11.1 | 12.2 | 9.8 | 9.7 | 8.8 | 8.4 | 7.6 | 7.8 | 6.5 | 6.7 | 6.7 | 7.6 | 6.1 | 6.6 | 6.5 | 8.4 | 8.5 | 8.3 | 7.9 | 8.1 | 8.4 | +0.3 |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| E-cigarettes ${ }^{\text {hh }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.7 | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 16.2 | - |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 17.1 | - |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9.7 | - |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10.0 | - |
| Large Cigars ${ }^{\text {i }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.9 | - |
| 10th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.9 | - |
| 12th Grade | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.4 | - |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.4 | - |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.6 | - |

TABLE 2-3
Trends in 30-Day Prevalence of Use of Various Drugs for 8th, 10th, and 12th Graders, College Students, and Young Adults (Ages 19-28)
(Entries are percentages.)
2013-
2014
$1991 \underline{1992} \underline{1993} \underline{1994} \underline{1995} \underline{1996} \underline{1997} \underline{1998} \underline{1999} \underline{2000} \underline{2001} \underline{\underline{2002}} \underline{2003} \underline{\underline{2004} \underline{2005} \underline{2006} \underline{\underline{2007}} \underline{2008} \underline{\underline{2009}} \underline{\underline{2010}} \underline{\underline{2011}} \underline{\underline{2012}} \underline{\underline{2013}} \underline{2014} \text { change }}$


TABLE 2-4

## Trends in 30-Day Prevalence of Daily Use of Various Drugs for 8th, 10th, and 12th Graders, College Students, and Young Adults (Ages 19-28)

(Entries are percentages.)
2013-
2014



Alcohol v.gg
Any Daily Use

| 8th Grade | 0.5 | 0.6 $\ddagger$ | 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 | 0.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10th Grade | 1.3 | $1.2 \ddagger$ | 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 | -0.1 |
| 12th Grade | 3.6 | $3.4 \ddagger$ | 3.4 | 2.9 | 3.5 | 3.7 | 3.9 | 3.9 | 3.4 | 2.9 | 3.6 | 3.5 | 3.2 | 2.8 | 3.1 | 3.0 | 3.1 | 2.8 | 2.5 | 2.7 | 2.1 | 2.5 | 2.2 | 1.9 | -0.3 |
| College Students | 4.1 | 3.7 | 3.9 | 3.7 | 3.0 | 3.2 | 4.5 | 3.9 | 4.5 | 3.6 | 4.7 | 5.0 | 4.3 | 3.7 | 4.6 | 4.8 | 4.3 | 4.0 | 4.3 | 3.6 | 3.8 | 3.9 | 3.6 | 4.3 | +0.7 |
| Young Adults | 4.9 | 4.5 | 4.5 | 3.9 | 3.9 | 4.0 | 4.6 | 4.0 | 4.8 | 4.1 | 4.4 | 4.7 | 5.1 | 4.5 | 5.2 | 5.4 | 5.6 | 5.3 | 5.3 | 4.6 | 5.2 | 5.5 | 5.1 | 5.0 | -0.1 |


| Been Drunk <br> Daily ${ }^{w, g g}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8th Grade | 0.1 | 0.1 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| 10th Grade | 0.2 | 0.3 | 0.4 | 0.4 | 0.6 | 0.4 | 0.6 | 0.6 | 0.7 | 0.5 | 0.6 | 0.5 | 0.5 | 0.4 | 0.4 | 0.5 | 0.5 | 0.3 | 0.4 | 0.3 | 0.2 | 0.4 | 0.3 | 0.3 | 0.0 |
| 12th Grade | 0.9 | 0.8 | 0.9 | 1.2 | 1.3 | 1.6 | 2.0 | 1.5 | 1.9 | 1.7 | 1.4 | 1.2 | 1.6 | 1.8 | 1.5 | 1.6 | 1.3 | 1.4 | 1.1 | 1.6 | 1.3 | 1.5 | 1.3 | 1.1 | -0.2 |
| College Students | 0.5 | 0.2 | 0.3 | 0.8 | 0.5 | 0.1 | 1.3 | 0.8 | 1.0 | 0.7 | 0.5 | 0.8 | 1.1 | 0.8 | 0.5 | 0.6 | 0.7 | 0.5 | 0.7 | 0.3 | 1.3 | 0.4 | 0.5 | 0.4 | -0.2 |
| Young Adults | 0.5 | 0.4 | 0.4 | 0.5 | 0.3 | 0.4 | 0.9 | 0.5 | 0.9 | 0.5 | 0.4 | 0.6 | 0.8 | 0.7 | 0.5 | 0.6 | 0.6 | 0.5 | 1.0 | 0.7 | 0.7 | 0.4 | 0.5 | 0.6 | +0.1 |
| 5+ Drinks in a Row in Last 2 Weeks |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 10.9 | 11.3 | 11.3 | 12.1 | 12.3 | 13.3 | 12.3 | 11.5 | 13.1 | 11.7 | 11.0 | 10.3 | 9.8 | 9.4 | 8.4 | 8.7 | 8.3 | 8.1 | 7.8 | 7.2 | 6.4 | 5.1 | 5.1 | 4.1 | -1.0 s |
| 10th Grade | 21.0 | 19.1 | 21.0 | 21.9 | 22.0 | 22.8 | 23.1 | 22.4 | 23.5 | 24.1 | 22.8 | 20.3 | 20.0 | 19.9 | 19.0 | 19.9 | 19.6 | 16.0 | 17.5 | 16.3 | 14.7 | 15.6 | 13.7 | 12.6 | -1.1 |
| 12th Grade | 29.8 | 27.9 | 27.5 | 28.2 | 29.8 | 30.2 | 31.3 | 31.5 | 30.8 | 30.0 | 29.7 | 28.6 | 27.9 | 29.2 | 27.1 | 25.4 | 25.9 | 24.6 | 25.2 | 23.2 | 21.6 | 23.7 | 22.1 | 19.4 | -2.7 ss |
| College Students | 42.8 | 41.4 | 40.2 | 40.2 | 38.6 | 38.3 | 40.7 | 38.9 | 40.0 | 39.3 | 40.9 | 40.1 | 38.5 | 41.7 | 40.1 | 40.2 | 41.1 | 40.0 | 36.9 | 37.0 | 36.1 | 37.4 | 35.2 | 35.4 | +0.2 |
| Young Adults | 34.7 | 34.2 | 34.4 | 33.7 | 32.6 | 33.6 | 34.4 | 34.1 | 35.8 | 34.7 | 35.9 | 35.9 | 35.8 | 37.1 | 37.0 | 37.6 | 37.8 | 37.9 | 36.7 | 35.9 | 36.5 | 35.5 | 35.1 | 33.5 | -1.6 |

Cigarettes

| Any Daily Use |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8th Grade | 7.2 | 7.0 | 8.3 | 8.8 | 9.3 | 10.4 | 9.0 | 8.8 | 8.1 | 7.4 | 5.5 | 5.1 | 4.5 | 4.4 | 4.0 | 4.0 | 3.0 | 3.1 | 2.7 | 2.9 | 2.4 | 1.9 | 1.8 | 1.4 | -0.4 |
| 10th Grade | 12.6 | 12.3 | 14.2 | 14.6 | 16.3 | 18.3 | 18.0 | 15.8 | 15.9 | 14.0 | 12.2 | 10.1 | 8.9 | 8.3 | 7.5 | 7.6 | 7.2 | 5.9 | 6.3 | 6.6 | 5.5 | 5.0 | 4.4 | 3.2 | -1.3 ss |
| 12th Grade | 18.5 | 17.2 | 19.0 | 19.4 | 21.6 | 22.2 | 24.6 | 22.4 | 23.1 | 20.6 | 19.0 | 16.9 | 15.8 | 15.6 | 13.6 | 12.2 | 12.3 | 11.4 | 11.2 | 10.7 | 10.3 | 9.3 | 8.5 | 6.7 | -1.7 ss |
| College Students | 13.8 | 14.1 | 15.2 | 13.2 | 15.8 | 15.9 | 15.2 | 18.0 | 19.3 | 17.8 | 15.0 | 15.9 | 13.8 | 13.8 | 12.4 | 9.2 | 9.3 | 9.2 | 8.0 | 7.6 | 7.3 | 5.2 | 5.6 | 5.2 | -0.4 |
| Young Adults | 21.7 | 20.9 | 20.8 | 20.7 | 21.2 | 21.8 | 20.6 | 21.9 | 21.5 | 21.8 | 21.2 | 21.2 | 20.3 | 20.8 | 19.6 | 18.6 | 17.3 | 16.7 | 15.0 | 14.8 | 13.8 | 12.8 | 12.1 | 10.7 | -1.4 s |
| 1/2 Pack+/Day |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 3.1 | 2.9 | 3.5 | 3.6 | 3.4 | 4.3 | 3.5 | 3.6 | 3.3 | 2.8 | 2.3 | 2.1 | 1.8 | 1.7 | 1.7 | 1.5 | 1.1 | 1.2 | 1.0 | 0.9 | 0.7 | 0.6 | 0.7 | 0.5 | -0.2 |
| 10th Grade | 6.5 | 6.0 | 7.0 | 7.6 | 8.3 | 9.4 | 8.6 | 7.9 | 7.6 | 6.2 | 5.5 | 4.4 | 4.1 | 3.3 | 3.1 | 3.3 | 2.7 | 2.0 | 2.4 | 2.4 | 1.9 | 1.5 | 1.5 | 1.2 | -0.3 |
| 12th Grade | 10.7 | 10.0 | 10.9 | 11.2 | 12.4 | 13.0 | 14.3 | 12.6 | 13.2 | 11.3 | 10.3 | 9.1 | 8.4 | 8.0 | 6.9 | 5.9 | 5.7 | 5.4 | 5.0 | 4.7 | 4.3 | 4.0 | 3.4 | 2.6 | -0.8 s |
| College Students | 8.0 | 8.9 | 8.9 | 8.0 | 10.2 | 8.4 | 9.1 | 11.3 | 11.0 | 10.1 | 7.8 | 7.9 | 7.6 | 6.8 | 6.7 | 4.9 | 4.3 | 4.3 | 3.8 | 3.9 | 2.5 | 2.4 | 2.4 | 2.4 | 0.0 |
| Young Adults | 16.0 | 15.7 | 15.5 | 15.3 | 15.7 | 15.3 | 14.6 | 15.6 | 15.1 | 15.1 | 14.6 | 14.2 | 13.9 | 13.5 | 12.5 | 11.9 | 11.1 | 10.2 | 9.3 | 9.3 | 7.5 | 7.6 | 7.0 | 6.6 | -0.4 |
| Smokeless Tobacco |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Daily ${ }^{\text {x }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade | 1.6 | 1.8 | 1.5 | 1.9 | 1.2 | 1.5 | 1.0 | 1.0 | 0.9 | 0.9 | 1.2 | 0.8 | 0.8 | 1.0 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.9 | 0.8 | 0.5 | 0.5 | 0.5 | 0.0 |
| 10th Grade | 3.3 | 3.0 | 3.3 | 3.0 | 2.7 | 2.2 | 2.2 | 2.2 | 1.5 | 1.9 | 2.2 | 1.7 | 1.8 | 1.6 | 1.9 | 1.7 | 1.6 | 1.4 | 1.9 | 2.5 | 1.7 | 2.0 | 1.9 | 1.8 | 0.0 |
| 12th Grade | - | 4.3 | 3.3 | 3.9 | 3.6 | 3.3 | 4.4 | 3.2 | 2.9 | 3.2 | 2.8 | 2.0 | 2.2 | 2.8 | 2.5 | 2.2 | 2.8 | 2.7 | 2.9 | 3.1 | 3.1 | 3.2 | 3.0 | 3.4 | +0.4 |
| College Students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Young Adults | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Source. The Monitoring the Future study, the University of Michigan.
See footnotes on the next page.

## Footnotes for Tables 2-1 through 2-4

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. ' *' indicates less than $0.05 \%$ but greater than $0 \%$. ' $\ddagger$ ' indicates some change in the question. See relevant footnote for that drug. See relevant figure to assess the impact of the wording changes. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

| Approximate <br> Weighted $N \mathrm{~N}$ | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 8th Graders | 17,500 | 18,600 | 18,300 | 17,300 | 17,500 | 17,800 | 18,600 | 18,100 | 16,700 | 16,700 | 16,200 | 15,100 |
| 10th Graders | 14,800 | 14,800 | 15,300 | 15,800 | 17,000 | 15,600 | 15,500 | 15,000 | 13,600 | 14,300 | 14,000 | 14,300 |
| 12th Graders | 15,000 | 15,800 | 16,300 | 15,400 | 15,400 | 14,300 | 15,400 | 1,200 | 13,600 | 12,800 | 12,800 | 12,900 |
| College Students | 1,410 | 1,490 | 1,490 | 1,410 | 1,450 | 1,450 | 1,480 | 1,440 | 1,440 | 1,350 | 1,340 | 1,260 |
| Young Adults | 6,600 | 6,800 | 6,700 | 6,500 | 6,400 | 6,300 | 6,400 | 6,200 | 6,000 | 5,700 | 5,800 | 5,300 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{a}$ For 12th graders, college students, and young adults only: 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), or tranquilizers not under a doctor's orders. For 8th and 10th graders only: The use of narcotics other than heroin and sedatives (barbiturates) has been excluded because these younger respondents appear to overreport use (perhaps because they include the use of nonprescription drugs in their answers). Due to changes in the amphetamines questions 2013 data for any illicit drug and any illicit drug other than marijuana are based on half the N indicated. For any illicit drug including inhalants, 8th and 10th grades, college students, and young adults are based on one half the $N$ indicated for 2013; 12th graders are based on one sixth of $N$ indicated in 2013. ${ }^{\mathrm{D}}$ In 2001 the question text was changed on half of the questionnaire forms for each age group. Other psychedelics was changed to other hallucinogens and shrooms was added to the list of examples. For the tranquilizer list of examples, Miltown was replaced with Xanax. For 8th, 10th, and 12th graders only: The 2001 data presented here are based on the changed forms only; $N$ is one half of $N$ indicated. In 2002 the remaining forms were changed to the new wording. The data are based on all forms beginning in 2002. Data for any illicit drug other than marijuana and data for hallucinogens are also affected by these changes and have been handled in a parallel manner.
${ }^{\text {c }}$ For 12th graders, college students, and young adults only: Data based on five of six forms in 1991-1998; $N$ is five sixths of $N$ indicated. Data based on three of six forms beginning in 1999; $N$ is three sixths of $N$ indicated.
${ }^{\text {a }}$ Inhalants are unadjusted for underreporting of amyl and butyl nitrites.
${ }^{e}$ For 12th graders and young adults only: Data based on one of six forms; $N$ is one sixth of $N$ indicated. Questions about nitrite use were dropped from the young adult questionnaires in 1995 and from the 12th-grade questionnaires in 2010.
'Hallucinogens are unadjusted for underreporting of PCP.
${ }^{9}$ For 12th graders, college students, and young adults only: Data based on one of six forms; $N$ is one sixth of $N$ indicated. For 12th graders only: In 2011 the flavored alcoholic beverage question text was changed. Skyy Blue and Zima were removed from the list of examples. An examination of the data did not show any effect from the wording change.
${ }^{\text {h }}$ For 8 th and 10th graders only: Data based on one of two forms in 1996; $N$ is one half of $N$ indicated. Data based on one third of $N$ indicated in 1997-2001 due to changes in the questionnaire forms. Data based on two of four forms beginning in 2002; $N$ is one half of $N$ indicated. For 12th graders only: Data based on one of six forms in 1996-2001; $N$ is one sixth of $N$ indicated. Data based on two of six forms beginning in 2002; $N$ is two sixths of $N$ indicated. For college students and young adults only: Data based on two of six forms in 1991-2001; $N$ is two sixths of $N$ indicated. Data based on three of six forms beginning in 2002; $N$ is three sixths of $N$ indicated.
'For college students and young adults only: Data based on five of six forms beginning in 2002; $N$ is five sixths of $N$ indicated.
${ }^{\mathrm{j}}$ For 12th graders only: Data based on four of six forms; $N$ is four sixths of $N$ indicated. For college students and young adults only: Data based on four of six forms; $N$ is four sixths of $N$ indicated.
${ }^{k}$ In 1995, the heroin question was changed in one of two forms for 8th and 10th graders, in three of six forms for 12th graders, and in two of six forms for college students and young adults. Separate questions were asked for use with and without injection. In 1996, the heroin question was changed in all remaining 8 th- and 10th-grade forms. Data presented here represent the combined data from all forms.
${ }^{\prime}$ For 8th and 10th graders only: Data based on one of two forms in 1995; $N$ is one half of $N$ indicated. Data based on all forms beginning in 1996. For 12th graders only: Data based on three of six forms; $N$ is three sixths of $N$ indicated. For college students and young adults only: Data based on two of six forms; $N$ is two sixths of $N$ indicated.
${ }^{m}$ Only drug use not under a doctor's orders is included here.
${ }^{n}$ For 12th graders, college students, and young adults only: In 2002 the question text was changed in half of the questionnaire forms. The list of examples of narcotics other than heroin was updated: Talwin, laudanum, and paregoric-all of which had negligible rates of use by 2001-were replaced with Vicodin, OxyContin, and Percocet. The 2002 data presented here are based on the changed forms only; $N$ is one half of $N$ indicated. In 2003, the remaining forms were changed to the new wording. The data are based on all forms beginning in 2003. In 2013 the list of examples was changed on one form: MS Contin, Roxycodone, Hydrocodone (Lortab, Lorcet, Norco), Suboxone, Tylox, and Tramadol were added to the list. An examination of the data did not show any affect from the wording change.
${ }^{\circ}$ For 8 th, 10 th, and 12th graders: In 2009, the question text was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change. In 2010 the remaining forms were changed in a like manner. In 2011 the question text was changed slightly in one form; bennies, Benzedrine and Methadrine were dropped from the list of examples. An examination of the data did not show any effect from the wording change. In 2013 the question wording was changed slightly in two of the 8th and 10th grade questionnaires and in three of the 12th grade questionnaires. The new wording in 2013 asked "On how many occasions (if any) have taken amphetamines or other prescription stimulant drugs..." In contrast, the old wording did not include the text highlighted in red.

## Footnotes for Tables 2-1 through 2-4 (cont.)

Results in 2013 indicated higher prevalence in questionnaires with the new wording as compared to the old wording; it was proportionally $61 \%$ higher in 8th grade, $34 \%$ higher in 10th grade, and $21 \%$ higher in 12th grade. 2013 data are based on the changed forms only; for 8 th, 10th, and 12 th graders N is one half of N indicated. In 2014 all questionnaires included the new, updated wording.
${ }^{\mathrm{p}}$ For 8th and 10th graders only: Data based on one of four forms; $N$ is one third of $N$ indicated. In 2011 the flavored alcoholic beverage question text was changed. Skyy Blue and Zima were removed from the list of examples. An examination of the data did not show any effect from the wording change. ${ }^{9}$ For 12th graders only: Data based on two of six forms; $N$ is two sixths of $N$ indicated. Provigil was dropped from the study in 2012. For college students and young adults only: Beginning in 2009 Salvia data based on one of six forms; $N$ is one sixth of $N$ indicated. Data based on two of six forms in 2010 and 2011 ; $N$ is two sixths of $N$ indicated. Data based on three of six forms beginning in 2012; $N$ is three sixths of $N$ indicated. For Synthetic Marijuana data based on two of six forms in 2011; $N$ is two sixths of $N$ indicated. Data based on three of six forms beginning in 2012; $N$ is three sixths of $N$ indicated. For Bath Salts data based on three of six forms; $N$ is three sixths of $N$ indicated.
${ }^{\text {r F For 12th }}$ graders only: In 2004 the question text was changed in half of the questionnaire forms. Barbiturates was changed to sedatives, including barbiturates. Goofballs, yellows, reds, blues, and rainbows were deleted from the list of examples; Phenobarbital, Tuinal, Nembutal, and Seconal were added. An examination of the data did not show any effect from the wording change. In 2005 the remaining forms were changed in a like manner. In 2013 the question text was changed in all forms: Tuinal, Nembutal, and Seconal were replaced with Ambien, Lunesta, and Sonata. In one form the list of examples was also changed: Tuinal was dropped from the list and Dalmane, Restoril, Halcion, Intermezzo, and Zolpimist were added. An examination of the data did not show any effect from the wording change. In 2013 the college student and young adult questionnaires were changed in a like manner. An examination of the data showed an affect from the wording change. For this reason 2012 and 2013 data are not comparable
${ }^{\text {s }}$ For 12th graders only: Data based on one of six forms; $N$ is one sixth of $N$ indicated. Methaqualone was dropped from the study in 2013. For college students and young adults only: Data based on three of six forms from 2011-2013. $N$ is three sixths of $N$ indicated. Beginning in 2014, data based on 2 of 6 forms. N is two sixths of N indicated.
${ }^{\text {t}}$ The use of any prescription drug includes use of any of the following: amphetamines, sedatives (barbiturates), narcotics other than heroin, or tranquilizers....without a doctor telling you to use them.
${ }^{\text {u }}$ For 8th and 10th graders only: Data based on one of two forms in 1996; $N$ is one half of $N$ indicated. Data based on three of four forms in 1997-1998; $N$ is two thirds of $N$ indicated. Data based on two of four forms in 1999-2001; $N$ is one third of $N$ indicated. Data based on one of four forms beginning in 2002; $N$ is one sixth of $N$ indicated. For 12th graders only: Data based on one of six forms in 1996-2001; $N$ is one sixth of $N$ indicated. Data based on two of six forms in 2002-2009; $N$ is two sixths of $N$ indicated. Data for 2001 and 2002 are not comparable due to changes in the questionnaire forms. Data based on one of six forms beginning in 2010; $N$ is one sixth of $N$ indicated. For college students and young adults only: Data based on two of six forms; $N$ is two sixths of $N$ indicated.
${ }^{v}$ For 8th, 10th, and 12th graders only: In 1993, the question text was changed slightly in half of the forms to indicate that a drink meant more than just a few sips. The 1993 data are based on the changed forms only; $N$ is one half of $N$ indicated for these groups. In 1994 the remaining forms were changed to the new wording. The data are based on all forms beginning in 1994. In 2004, the question text was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change. The remaining forms were changed in 2005. For college students and young adults: The revision of the question text resulted in rather little change in the reported prevalence of use. The data for all forms are used to provide the most reliable estimate of change.
${ }^{\text {w }}$ For all grades: In 2012 the alcoholic beverage containing caffeine (like Four Loko or Joose) question text was changed to alcoholic beverage mixed with an energy drink (like Red Bull). The data in 2011 and 2012 are not comparable due to this question change. For 12th graders only: Data based on two of six forms; $N$ is two sixths of $N$ indicated. For college students and young adults only: been drunk data based on three of six forms; $N$ is three sixths of $N$ indicated. Alcoholic beverages containing caffeine data based on two of six forms; $N$ is two sixths of $N$ indicated.
${ }^{\times}$For 8th and 10th graders only: Data based on one of two forms for 1991-1996 and on two of four forms beginning in 1997; $N$ is one half of $N$ indicated. For 12th graders only: Data based on one of six forms; $N$ is one sixth of $N$ indicated. For 8th, 10th, and 12th graders only: Snus and dissolvable tobacco were added to the list of examples in 2011. An examination of the data did not show any effect from the wording change. For college students and young adults only: Questions about smokeless tobacco use were dropped from the analyses in 1989.
${ }^{y}$ For 8 th and 10th graders only: In 2006, the question text was changed slightly in half of the questionnaire forms. An examination of the data did not show any effect from the wording change. In 2007 the remaining forms were changed in a like manner. In 2008 the question text was changed slightly in half of the questionnaire forms. An examination of the data did not show any effect from the wording change. In 2009 the remaining forms were changed in a like manner. For 12th graders only: Data based on two of six forms in 1991-2005; $N$ is two sixths of $N$ indicated. In 2006 a slightly altered version of the question was added to a third form. An examination of the data did not show any effect from the wording change. Data based on three of six forms beginning in 2006; $N$ is three sixths of $N$ indicated. In 2007 the remaining forms were changed in a like manner. In 2008 the question text was changed slightly in two of the questionnaire forms. An examination of the data did not show any effect from the wording change. In 2009 the remaining form was changed in a like manner.
${ }^{2}$ For college students and young adults only: Data based on two of six forms in 1990-2009; $N$ is two sixths of $N$ indicated. In 2008, the question text was changed slightly.
${ }^{\text {aa }}$ For 12th graders only: Data based on two of six forms in 2002-2005; $N$ is two sixths of $N$ indicated. Data based on three of six forms beginning in 2006; $N$ is three sixths of $N$ indicated.
${ }^{\mathrm{bb}}$ For college students and young adults only: Data based on two of six forms through 2009; $N$ is two sixths of $N$ indicated. Data based on three of six forms beginning in 2010; $N$ is three sixths of $N$ indicated.
${ }^{\text {cc }}$ For 12th graders only: Data based on two of six forms in 2000; $N$ is two sixths of $N$ indicated. Data based on three of six forms in 2001; $N$ is three sixths of $N$ indicated. Data based on one of six forms beginning in 2002; $N$ is one sixth of $N$ indicated. For college students and young adults only: Data based on two of six forms; $N$ is two sixths of $N$ indicated. Data based on three of six forms beginning in 2010; $N$ is three sixths of $N$ indicated. Data based on two of six forms beginning in 2012; $N$ is two sixths of $N$ indicated.
${ }^{\text {dd }}$ For 12th graders only: Data based on two of six forms in 2000; $N$ is two sixths of $N$ indicated. Data based on three of six forms in 2001-2009; $N$ is three sixths of $N$ indicated. Data based on two of six forms beginning in 2010; $N$ is two sixths of $N$ indicated. For college students and young adults only: Data based on two of six forms; $N$ is two sixths of $N$ indicated. Data based on three of six forms beginning in 2010; $N$ is three sixths of $N$ indicated.
${ }^{\text {ee }}$ For 12th graders only: The 2003 flavored alcoholic beverage data were created by adjusting the 2004 data to reflect the observed 2003 to 2004 change in a slightly different version of the flavored alcoholic beverage question. In 2004 the original question was revised to include wine coolers among the examples-a change that had very little effect on the observed prevalence-of-use rate.
${ }^{\text {If }}$ For 12th graders only: Data based on two of six forms in 2000-2008; $N$ is two sixths of $N$ indicated. Beginning in 2009 data based on one of six forms; $N$ is one sixth of $N$ indicated.
${ }^{9 g}$ Daily use is defined as use on 20 or more occasions in the past 30 days except for cigarettes and smokeless tobacco, for which actual daily use is measured, and for $5+$ drinks, for which the prevalence of having five or more drinks in a row in the last two weeks is measured.

## Footnotes for Tables 2-1 through 2-4 (cont.)

${ }^{\text {hh }}$ For 8th and 10th graders only: Data based on two of four forms. N is one third of N indicated. For 12th graders only: Data based on four of six forms. N is four sixths of N indicated. For college students and young adults only: Data based on one of six forms. N is one sixth of N indicated.
"For 8th and 10th graders only: Data based on two of four forms. N is one third of N indicated. For 12th graders only: Data based on two of six forms. N is two sixths of N indicated. For college students and young adults only: Data based on one of six forms. N is one sixth of N indicated.

Trends in Annual Prevalence of an Illicit Drug Use Index across 5 Populations


Source. The Monitoring the Future study, the University of Michigan.
Notes. Illicit drug use index includes any use of marijuana, LSD, other hallucinogens, crack, other cocaine, or heroin; or any use of narcotics other than heroin which is not under a doctor's orders, stimulants, sedatives (barbiturates), methaqualone (excluded since 1990), or tranquilizers. Beginning in 1982, the question about stimulant use (i.e., amphetamines) was revised to get respondents to exclude the inappropriate reporting of nonprescription stimulants. The prevalence rate dropped slightly as a result of this methodological change. In 2013, the question on use of amphetamines was changed. Data for any illiict drug were affected by this change.

## Chapter 3

## STUDY DESIGN AND PROCEDURES

Monitoring the Future (MTF) incorporates several types of surveys into one study, yielding analytic power beyond the sum of its component parts. The components include cross-sectional studies, repeated cross-sectional studies, and panel studies of individual cohorts or sets of cohorts. The annual cross-sectional surveys provide point estimates of various behaviors and conditions in any given year for a number of subpopulations $\left(8^{\text {th }}\right.$ graders, $10^{\text {th }}$ graders, $12^{\text {th }}$ graders, college students, all young adult high school graduates ages 19-30, 35-year-olds, 40-year-olds, etc.), as well as point estimates for various subgroups within these different populations. Repeating these annual cross-sectional surveys over time allows an assessment of change across history in consistent age segments of the population, as well as among subgroups. The panel study feature permits the examination of developmental changes in the same individuals as they assume adult responsibilities, enter and leave various adult roles and environments, and continue further into adulthood. It also permits an assessment of a number of outcomes later in life that may be linked to substance use in adolescence and beyond.

Finally, with a series of panel studies of sequential graduating class cohorts, in what is known as a cohort-sequential design, we are able to offer distinctions among and explanations for three fundamentally different types of change: period, age, and cohort. This feature creates a synergistic effect that enhances the analytic and explanatory power of MTF. ${ }^{1,2}$

## RESEARCH DESIGN AND PROCEDURES FOR THE TWELFTH-GRADE SURVEYS

Twelfth graders have been surveyed in the spring of each year since 1975. Each year's data collection has taken place in 120 to 146 public and private high schools selected to provide an accurate representative cross-section of $12^{\text {th }}$ graders throughout the coterminous United States (see Figure 3-1).

## The Population under Study

Senior year of high school is a strategic point at which to monitor drug use and related attitudes of youth. First, completion of high school represents the end of an important developmental period in this society, demarcating both the end of universal education and, for many, the end of living full-time in the parental home. Therefore, it is a logical point at which to take stock of cumulated influences. Further, completion of high school represents a jumping-off point-a point from which young people diverge into widely differing social environments and experiences. Thus senior year is a good time to take a "before" measure, allowing for the

[^19]subsequent calculation of changes that may be attributable to the environmental and role transitions occurring in young adulthood, including college attendance, military service, and so on. Finally, there are some important practical advantages built into the original system of data collections with samples of $12^{\text {th }}$ graders. The need for systematically repeated, large-scale samples from which to make reliable estimates of change requires that considerable emphasis be put on cost efficiency as well as feasibility. The last year of high school constitutes the final point at which a reasonably good national sample of an age-specific cohort can be drawn and studied economically.

## The Omission of Dropouts

One limitation in the MTF study design is the exclusion of individuals who drop out of high school before graduation-approximately $8-15 \%$ of each age cohort nationally, according to U.S. Census statistics. ${ }^{3}$ The dropout rate has been declining in recent years; $8 \%$ is the most recent estimate. Clearly, the omission of high school dropouts introduces biases in the estimation of certain characteristics of the entire age group; however, for most purposes, the small proportion of students who drop out sets outer limits on the bias. Further, since the bias from missing dropouts should remain relatively constant from year to year, their omission should introduce little or no bias in change estimates. Indeed, we believe the changes observed over time for those who are surveyed in the $12^{\text {th }}$ grade are likely to parallel the changes for dropouts in most instances. Appendix A in Volume $I^{4}$ addresses in detail the likely effects of the exclusion of dropouts (as well as absentees from school) on estimates of drug use prevalence and trends among the entire age cohort.

## Sampling Procedures and Sample Weights

A multistage random sampling procedure is used to secure the nationwide sample of $12^{\text {th }}$ graders each year. Stage 1 is the selection of particular geographic areas, Stage 2 is the selection of one or more high schools in each area (with probability proportionate to size), and Stage 3 is the selection of $12^{\text {th }}$ graders within each high school. Up to about 350 twelfth graders in each school may be included. In schools with fewer $12^{\text {th }}$ graders, the usual procedure is to include all of them in the data collection, though a smaller sample is sometimes taken (either by randomly sampling entire classrooms or by a different unbiased, random method) to accommodate the needs of the school. Weights are assigned to compensate for differential probabilities of selection at each stage of sampling. Final weights are normalized to average 1.0 so that the weighted number of cases equals the unweighted number of cases overall. In order to be able to check observed trends in any given one-year interval, schools participate in the study for two consecutive years on a staggered schedule, with one half of them being replaced with a new random half-sample of schools each year. Therefore in any given year about half of the schools in the sample are participating for the first time and the other half are participating for their second and final year. This three-stage sampling procedure, with annual replacement of half of the sample of schools each year, has yielded the numbers of participating schools and students shown in Table 3-1.

[^20]
## Questionnaire Administration

About three weeks prior to the questionnaire administration date, parents/guardians of the target respondents are sent a letter by first-class mail, usually from the principal, announcing and describing the MTF study and providing parents/guardians with an opportunity to decline participation of their son or daughter if they wish. A flyer outlining the study in more detail is enclosed with the letter. Copies of the flyers are also given to the students by teachers in the target classrooms in advance of the date of administration. The flyers make clear that participation is entirely voluntary. Local University of Michigan Institute for Social Research representatives and their assistants conduct the actual questionnaire administrations following standardized procedures detailed in an instruction manual. The questionnaires are administered in classrooms during a normal class period whenever possible; however, circumstances in some schools require the use of larger group administrations. Teachers are asked to remain present in the classroom to help maintain order, but to remain at their desks so that they cannot see students' answers.

## Questionnaire Format

Because many questions are needed to cover all of the topic areas in the MTF study, much of the questionnaire content for $12^{\text {th }}$ graders is divided into six different questionnaire forms distributed to participants in an ordered sequence that ensures six virtually identical random subsamples. Five questionnaire forms were used between 1975 and 1988. About one third of each form consists of key, or "core," variables common to all forms. All demographic variables are contained in this core set of measures. Key drug use variables are also in the core, while many of the specific drugs that have been added over time are not in the core set but are in one or more forms. Many questions on attitudes, beliefs, and perceptions of relevant features of the social environment are in fewer forms, and data are thus based on fewer cases. A single form would have one fifth of the total number of cases in 1975-1988 (approximately 3,300 per year) and one sixth of the total beginning in 1989 (approximately 2,500 per year). All tables in this report list the sample sizes upon which the statistics are based, stated in terms of the weighted number of cases (which, as explained above, is roughly equivalent to the actual number of cases).

## RESEARCH DESIGN AND PROCEDURES FOR THE EIGHTH- AND TENTH-GRADE SURVEYS

In 1991, MTF was expanded to include nationally representative samples of $8^{\text {th }}$ - and $10^{\text {th }}$-grade students surveyed on an annual basis. Separate samples of schools and students are drawn at each grade level. In general, the procedures used for the annual in-school surveys of $8^{\text {th }}$ - and $10^{\text {th }}$ grade students closely parallel those used for $12^{\text {th }}$ graders, including the selection of schools and students, questionnaire administration, and questionnaire format. A major exception is that only two different questionnaire forms were used in $8^{\text {th }}$ and $10^{\text {th }}$ grade from 1991 to 1996, expanding to four forms beginning in 1997. The same four questionnaire forms are used for both $8^{\text {th }}$ and $10^{\text {th }}$ graders. Most of the content is drawn from the $12^{\text {th }}$-grade surveys, including the core section. Thus, key demographic variables and measures of drug use and related attitudes and beliefs are generally identical for all three grades. Many fewer questions about other values and attitudes are included in the $8^{\text {th }}$ - and $10^{\text {th }}$-grade forms, in part because we think that these values and attitudes are likely to be more fully formed by $12^{\text {th }}$ grade and are best monitored there.

About 15,000 eighth-grade students in approximately 150 schools (mostly middle schools) and about 13,000 to 15,000 tenth-grade students in approximately 125 schools are surveyed each year (see Table 3-1).

## Mode of Administration

Since 1999 all surveys for $8^{\text {th }}$ and $10^{\text {th }}$ graders have been fully anonymous. In previous years MTF collected confidential, personal identification information from these respondents, and from 1991 to 1993 this information was used to follow up with $8^{\text {th }}$ and $10^{\text {th }}$ graders in a manner similar to that for $12^{\text {th }}$ graders. ${ }^{5}$ These follow-ups were discontinued after 1993, precluding the need for further collection of confidential, personal identification information. Considerations supporting a switch to fully anonymous surveys in $8^{\text {th }}$ and $10^{\text {th }}$ grade included the following: (a) school cooperation might be easier to obtain; (b) any suppression effect on self-reported substance use that the confidential mode of administration might have could be both quantified and eliminated; and (c) if there were any mode of administration effect, it would be removed from the national data, which are widely compared with results of state and local surveys (nearly all of which use anonymous questionnaires), thus making those comparisons more valid.

MTF considered in detail the effects of an anonymous survey as compared to a confidential survey that collected personal identification information. In 1998 the half-sample of $8^{\text {th }}$ - and $10^{\text {th }}$ grade schools beginning their two-year participation in MTF received fully anonymous questionnaires, while the half-sample participating for their second and final year continued to get the confidential questionnaires that had been previously in use by MTF since 1991.

Examination of the 1998 results, based on the two equivalent half-samples at grades 8 and 10, revealed that there was no effect of anonymous as compared to confidential surveys among $10^{\text {th }}$ graders and only a very modest effect, if any, in self-reported substance use rates among $8^{\text {th }}$ graders (with prevalence rates slightly higher in the anonymous condition). ${ }^{6}$ All tables and figures in this volume combine data from both half-samples of $8^{\text {th }}$ graders surveyed in a given year. This is also true for $10^{\text {th }}$ graders, for whom we found no methodological effect, and $12^{\text {th }}$ graders, for whom we assumed no such effect since none was found for $10^{\text {th }}$ graders. (See this chapter's later section entitled "Representativeness and Sample Accuracy" for a further discussion of half-samples among all three grades.)

## Questionnaire Forms and Sample Proportions

A benefit of not interlocking the $8^{\text {th }}$ - and $10^{\text {th }}$-grade samples (that is, not attempting to have $10^{\text {th }}$ grade respondents come from previous $8^{\text {th }}$ grade pool of respondents) was that we could consider having more forms of the questionnaire. Beginning in 1997, the number of forms was expanded to four, although they are not distributed in equal numbers. Forms 1, 2, 3, and 4 are assigned to one third, one third, one sixth, and one sixth of the students, respectively. Thus, if a question

[^21]appears on only one form, it is administered to either one third or one sixth of the sample. A question in two forms may be assigned to one third of the sample (one sixth plus one sixth), one half of the sample (one third plus one sixth), or two thirds of the sample (one third plus one third). No questions appear on exactly three forms. Footnotes to the tables indicate what proportion of all respondents in each grade completed the question, if that proportion is other than the entire sample. All of the samples, whether based on one or more forms, are random samples.

## RESEARCH DESIGN AND PROCEDURES FOR THE TWELFTH-GRADE FOLLOW-UP SURVEYS

Beginning with the graduating class of 1976 , some members of each $12^{\text {th }}$-grade class have been selected to be surveyed by mail after high school. From the 13,000-19,000 twelfth graders originally surveyed in a given senior class, a representative sample of 2,400 is randomly chosen for follow-up. In order to ensure that drug-using populations are adequately represented in the follow-up surveys, $12^{\text {th }}$ graders reporting 20 or more occasions of marijuana use in the previous 30 days (i.e., daily users), or any use of the other illicit drugs in the previous 30 days are selected with higher probability (by a factor of 3.0) than the remaining $12^{\text {th }}$ graders. Differential weighting is then used in all follow-up analyses to compensate for these differential sampling probabilities. Because those in the drug-using stratum receive a weight of only 0.33 in the calculation of all statistics to correct for their overrepresentation at the selection stage, there are actually more follow-up respondents than are reported in the weighted numbers given in the tables; and in recent years, actual numbers average about $22 \%$ higher than the weighted numbers. The 2,400 participants selected from each $12^{\text {th }}$-grade class are followed in a series of biennial follow-up surveys; they are randomly split into two groups of 1,200 each-one group to be surveyed on even-numbered calendar years and the other group on odd-numbered years. This two-year cycle for each individual is intended to reduce respondent burden, thus yielding better retention rates. By alternating the two half-samples, MTF collects data from every graduating class each year (through age 30), even though any given respondent participates only every other year.

Until 2002, each respondent was surveyed biennially up to seven times; at the seventh follow-up, which would occur either 13 or 14 years after graduation, the respondents had reached modal age 31 or 32. As a cost-saving measure, the seventh biennial follow-up was discontinued in 2002 and since then each respondent is surveyed every other year until modal age 29 or 30 . Additional follow-ups occur at modal ages $35,40,45,50$, and 55 . Data like these, gathered on representative national samples over such a large portion of the life span, are extremely rare and can provide needed insight into the etiology and life course history of substance use and relevant behaviors, including those related to HIV transmission.

## Follow-Up Procedures

Using information provided by $12^{\text {th }}$-grade respondents on a tear-off card (requesting the respondent's name, address, phone number(s), and recent email address), mail contact is maintained with the subset of people selected for inclusion in the follow-up panels. Newsletters are sent to them each year, providing a short summary of results on a variety of survey topics. Name and address corrections are requested from both the U.S. Postal Service and the individual.

Questionnaires are sent in the spring to each individual biennially through age 30, then subsequently at 5-year intervals. A check made payable to the respondent is attached to the front of each questionnaire. ${ }^{7}$ Reminder letters and postcards are sent at fixed intervals thereafter; telephone callers attempt to gather up-to-date location information for those respondents with whom we are trying to make contact; and, finally, those whom we can contact but who have not responded receive a prompting phone call from the Survey Research Center's phone interviewing facility in Ann Arbor, Michigan. If requested, a second copy of the questionnaire is sent. No questionnaire content is administered by phone. If a respondent asks not to be contacted further, that wish is honored.

## Follow-Up Questionnaire Format

The questionnaires used in the follow-up surveys of 19- to 30 -year-olds parallel those used in $12^{\text {th }}$ grade. Many of the questions are the same, including the core section dealing with drug usea key strength of MTF in terms of consistent measurement across age. . Respondents are always mailed the same form of the questionnaire that they first received in $12^{\text {th }}$ grade so that changes over time in their behaviors, attitudes, experiences, and so forth can be measured. Questions specific to high school status and experiences are dropped in the follow-ups, and questions relevant to post-high school status and experiences are added (mostly in the core section). The post-high school questions deal with issues such as college attendance, military service, civilian employment, marriage, and parenthood. In the study's early follow-ups (1975-1988), the sample size for a question appearing on a single form was one fifth of the total sample. A sixth form was introduced in $12^{\text {th }}$ grade beginning with the class of 1989 and extended a year later to the followup surveys. Therefore, since 1990, a question appearing on a single form has been administered to one sixth of the total sample in the 19-30 age band. Single-form data from a single cohort are typically too small to make reliable estimates; therefore, in most cases where they are reported, single-form data from several adjacent cohorts are combined.

For the five-year surveys beginning at age 35, both half-samples from a class cohort are surveyed simultaneously and only one questionnaire form is used. Much of the questionnaire content is maintained but streamlined with a focus on the major family and work issues relevant to respondents ages 35 to 55 ; we have also added measures of substance use disorders and health outcomes.

## REPRESENTATIVENESS AND SAMPLE ACCURACY

## School Participation

Schools are invited to participate in the MTF study for a two-year period. For each school that declines to participate, a similar school (in terms of size, geographic area, urbanicity, etc.) is recruited as a replacement. In 2014, either an original school or a replacement school was obtained in $92 \%$ of the sample units. With very few exceptions, each school participating in the first year has agreed to participate in the second year as well. Figure 3-2 provides the yearspecific school participation rates and the percentage of units filled since 1977. As shown in the

[^22]figure, replacements for schools that decline participation are obtained in the vast majority of cases.

Two questions are sometimes raised with respect to school participation rates: a) Are participation rates sufficient to ensure the representativeness of the sample? b) Does variation in participation rates over time contribute to changes in estimates of drug use?
(a) With respect to participation rates ensuring that the sample is representative, the selection of a comparable replacement school that is demographically close to the original school occurs in practically all instances in which an original school refuses. This almost entirely removes problems of bias in region, urbanicity, and the like that might result from certain schools declining to participate.

Among participating schools, there is very little difference in substance use rates between the schools that were original selections, taken as a set, and the schools that were replacements. Averaged over the years 2003 through 2014, for grades 8, 10, and 12 combined, the difference between original schools and replacement schools averaged 0.37 percentage points in the observed prevalence rates averaged across a number of drug use measures: two indexes of annual illicit drug use, the annual prevalence of each of the major illicit drug classes, and several measures of alcohol and cigarette use. For half of the measures, prevalence was higher in the replacement selections and in the other half it was higher in the original selections; specifically, out of 39 comparisons ( 13 drugs and drug indexes for each grade), prevalence was higher in 20 of the original selections and in 19 of the replacement selections.

Potential biases at work could be subtle, however. If, for example, it turned out that most schools with drug problems refused to participate, the sample would be seriously biased. And if any other single factor were dominant in most refusals, that reason for refusal might also suggest a source of serious bias. However, the reasons schools refuse to participate tend to be varied and are often a function of events specific to that particular year, such as a school emergency or a weather-related event; only very few schools, if any, object specifically to the drug-related survey content.

If it were the case that schools differed substantially in drug use, then which particular schools participated could have a greater effect on estimates of drug use. However, the great majority of variance in drug use lies within schools, not between schools. ${ }^{8}$ For example, from 2003 to 2014, for schools with $8^{\text {th }}-10^{\text {th }}$-, or $12^{\text {th }}$ - grade students, about $2 \%$ to $8 \%$ of the variance in smoking cigarettes or drinking alcohol in the past 30 days was between schools. Among the illicit drugs, marijuana showed the largest amount of between schools variation, averaging between slightly less than $4 \%$ up to $5 \%$ for annual use, and $3 \%$ to $4 \%$ for 30 -day use. Annual prevalence of cocaine use averaged between less than $1 \%$ and $1.5 \%$, while prevalence of annual heroin use averaged less than $0.5 \%$. Further, some, if not most, of the between-schools variance is due to differences related to factors such as region and urbanicity, which remain well controlled in the present sampling design.

[^23](b) With respect to participation rates and changes in estimates of drug use, it is extremely unlikely that results have been significantly affected by changes in school participation rates. If changes in participation rates seriously affected prevalence estimates, there would be noticeable bumps up or down in concert with the changing rates. But this series of surveys produces results that are very smooth and generally change in an orderly fashion from one year to the next. Moreover, different substances trend in distinctly different ways. We have observed, for example, marijuana use decreasing while cocaine use was stable (in the early 1980s), alcohol use declining while cigarette use held steady (in the mid- to late 1980s), ecstasy use rising sharply while cocaine use showed some decline (late 1990s, early 2000s); and marijuana use generally continuing to rise while alcohol use hit historic lows (since 2011). Moreover, attitudes and perceptions about drugs have changed variously, but generally in ways quite consistent with the changes in actual use. All of these patterns are explainable in terms of psychological, social, and cultural factors; they cannot be explained by the common factor of changes in school participation rates.

Of course, there could be some sort of constant bias across the years, but even in the unlikely event that there is, it seems highly improbable that it would be of much consequence for policy purposes, given that it would not affect trends and likely would have a very modest effect on levels of prevalence. Thus we have a high degree of confidence that school refusal rates have not seriously biased the survey results.

Nevertheless, securing the cooperation of schools has become more difficult in recent years. This is a problem common to the field, not specific to MTF. Therefore, beginning with the 2003 survey, we have provided payment to schools as a means of increasing their incentive to participate. (By that time, several other ongoing school-based survey studies already were using payments to schools.)

At each grade level, half of each year's sample comprises schools that started their participation the previous year, and half comprises schools that began participating in the current year. (Both samples are national replicates, meaning that each is drawn to be nationally representative by itself.) This staggered half-sample design is used to check on possible errors in the year-to-year trend estimates due to school turnover. For example, separate sets of one-year trend estimates are computed based on students in the half-sample of schools that participated in both 2011 and 2012, then based on the students in the half-sample that participated in both 2012 and 2013, and so on. Thus, each one-year matched half-sample trend estimate derived in this way is based on a constant set of schools (about 65 in $12^{\text {th }}$ grade, for example, over a given one-year interval). When the trend data derived from the matched half-sample (examined separately for each class of drugs) are compared with trends based on the total sample of schools, the results are usually highly similar, indicating that the trend estimates are affected little by school turnover or shifting participation rates. As would be expected, levels of absolute prevalence for a given year are not as accurately estimated using just the half-sample because the sample size is considerably smaller.

## Student Participation

In 2014, completed questionnaires were obtained from $90 \%$ of all sampled students in $8^{\text {th }}$ grade, $88 \%$ in $10^{\text {th }}$ grade, and $82 \%$ in $12^{\text {th }}$ grade (see Table $3-1$ for response rates in earlier years). In the large majority of cases, students are missed due to absence from class at the time of data
collection; for reasons of cost efficiency, we typically do not schedule special follow-up data collections for absent students. Because students with fairly high rates of absenteeism also report above-average rates of drug use, some degree of bias is introduced into the prevalence estimates by missing the absentees. Much of that bias could be corrected through the use of special weighting based on the reported absentee rates provided by the students who did respond; however, we decided not to use such a weighting procedure because the bias in overall drug use estimates was determined to be quite small and the necessary weighting procedures would have introduced greater sampling variance in the estimates. ${ }^{9}$ Appendix A in Volume I illustrates the changes in trend and prevalence estimates that would result if corrections for absentees had been included. Of course, some students simply refuse, when asked, to complete a questionnaire. However, the proportion of explicit refusals amounts to less than $1.7 \%$ of the target sample for each grade.

## Sampling Accuracy of the Estimates

Confidence intervals (95\%) are provided in Tables 4-1a through 4-1d in Volume I for lifetime, annual, 30 -day, and daily prevalence of use for $8^{\text {th }}$-, $10^{\text {th }}$-, and $12^{\text {th }}$-grade students. As can be seen in Table 4-1a, confidence intervals for lifetime prevalence for $12^{\text {th }}$ graders average less than $\pm 1.4$ percentage points across a variety of drug classes. That is, if we took a large number of samples of this size from the universe of all schools containing $12^{\text {th }}$ graders in the coterminous United States, 95 times out of 100 the sample would yield a result that would be less than 1.4 percentage points divergent from the result we would get from a comparable massive survey of all $12^{\text {th }}$ graders in all schools. This is a high level of sampling accuracy, permitting detection of fairly small changes from one year to the next. Confidence intervals for the other prevalence periods (last 12 months, last 30 days, and current daily use) are generally smaller than those for lifetime use. In general, confidence intervals for $8^{\text {th }}$ and $10^{\text {th }}$ graders are very similar to those observed for $12^{\text {th }}$ graders. Some drugs (smokeless tobacco, PCP, and others, as indicated in the footnotes for Tables 2-1 to 2-4) are measured on only one or two questionnaire forms; these drugs will have somewhat larger confidence intervals because they are based on smaller sample sizes. Appendix C in Volume I provides information on how to calculate confidence intervals around other point estimates, as well as information needed to compare trends across time or to test the significance of differences between subgroups in any given year.

## PANEL RETENTION

We discuss here the nature of the panel attrition problem generally, the response rates for MTF panel surveys in recent years, and evidence relevant to assessing the impact of attrition on the study's research results.

## The Problem of Panel Attrition

Virtually all longitudinal studies of drug use experience attrition, which is often differential with respect to substance use. ${ }^{10}$ In addition, survey response rates in general have been declining over

[^24]the past few decades, ${ }^{11}$ highlighting an important challenge in the conduct of population-based survey research.

A vital feature of the MTF panel studies is their very low cost per respondent. There are many advantages to collecting panel data through low-cost mail surveys, as we have done since the outset of the study. Indeed, given the number of questionnaires sent each year (roughly 18,500 ) across the entire coterminous United States and elsewhere in the world, using low-cost mail surveys has been our best (and, really, the only) cost-effective option. Now that Internet use is widespread among young adults, we are conducting experiments within the ongoing surveys to test web-based survey options as a means to reduce data collection costs and potentially engage more respondents in the panel studies.

One disadvantage of data collection by mail is that attrition rates for mailed surveys tend to be higher than those for surveys obtained with much more expensive methods, such as intensive personal tracking and interviewing. Certainly there exist a few large epidemiological/etiological surveys that have better retention rates, but their procedures are extremely expensive and not realistic for an ongoing effort of the scale of MTF. Nevertheless, our retention rates compare favorably with those of most longitudinal studies (including interview studies) reported in the field.

## Response Rates

The MTF survey data on college students-an important subgroup in the panel surveys-now encompasses 34 years. We know about our respondents’ actual college attendance only from those who are invited to and do complete follow-up questionnaires; however, we can use 12thgrade questionnaire answers (i.e., college intentions/expectations and program of study) to predict college attendance with a high degree of accuracy. MTF's retention of 12th graders who identified themselves as "college-bound" remains reasonably good. Among those participants in high school who were targeted for follow-up from the Classes of 2008-2013 and who reported planning to attend college and being enrolled in a college-prep curriculum, the follow-up retention rates for the three most recent classes surveyed at each follow-up point were: $51 \%$ in the first follow-up, one to two years past high school (based on the classes of 2012-2013); 48\% in the second follow-up, three to four years past high school (based on the classes of 20102011); and $50 \%$ in the third follow-up, five to six years past high school (based on the classes of 2008-2009). These rates compare well with another national survey of substance use among college students-the Harvard College Alcohol Study-which had cross-sectional response rates of $59 \%$ in 1997 and 1999, but of $52 \%$ by 2001. ${ }^{12}$ To date in Volume I, we have reported only on college students who are one to four years past high school graduation. As the average age of attendance rises, having the extended age coverage will be of growing importance.

[^25]Retention rates in the biennial follow-ups of all panel members modal ages 19-30 (corresponding to the first six follow-ups) decline with the length of the follow-up interval, of course. For the five surveys from 2010 to 2014, the response rate in the first follow-up (corresponding to one to two years past high school) averaged 48\%; and for the second through sixth follow-ups (corresponding to $3-12$ years past high school) response rates averaged $45 \%$. Among long-term respondents-the 35-, 40-, 45-, 50-, and 55-year-olds-the retention rates are quite good, because some of the decline with age in retention rates reflects cohort differences. Among the 35-year-old respondents surveyed from 2010 to 2014, corresponding to 17 years past high school, the average response rate was $43 \%$. Among 40 -year-old respondents surveyed from 2010 to 2014, corresponding to a 22-year follow-up interval, the average retention rate was $42 \%$. Among 45-year-olds surveyed in 2010 to 2014, the average retention rate was $46 \%$; among 50-year-olds surveyed in 2010 to 2014, the response rate averaged $53 \%$; and for 55 -year-olds surveyed for the first time in 2013, the response rate was $53 \%$. In sum, the response rates attained under the current design range from respectable to good, especially when the low-cost nature of the procedures, the very long time intervals involved, and the substantial length of the questionnaires are taken into account. More importantly, the evidence leaves us confident that the data resulting from these follow-up panels are reasonably accurate, which brings us to our adjustments for panel attrition and the comparison of our results with those from other sources.

## The Impact of Panel Attrition on Research Results

An important purpose of the MTF follow-ups is to allow estimation of drug prevalence among American high school graduates at various age levels. Thus, we have always been concerned about making the appropriate adjustments to account for panel attrition. In essence, our standard adjustment process is a post-stratification procedure in which we reweight the data obtained from the participating follow-up samples so that their 12th-grade distribution of answers on a given drug reproduces the original distribution of use observed for that drug based on all participating 12th graders. This procedure is carried out separately for cigarettes, smokeless tobacco, alcohol, and marijuana, as well as other illicit drugs (combined). As expected, it produces prevalence estimates that are somewhat higher than those uncorrected for attrition, indicating that there is indeed some positive association between drug use and panel attrition. However, the adjustments are relatively modest, as is documented next.

One reason the adjustments are modest is that attrition rates do not differ greatly by levels of 12th-grade substance use; they differ some, but less than one might expect. For example, based on detailed analyses conducted earlier, we found that among all respondents who had never used marijuana, an average of $79 \%$ of the classes of 1976-1998 participated in the first follow-up. The proportion responding was just slightly lower among those who in $12^{\text {th }}$ grade reported having used marijuana just once or twice in the prior 12 months: $75 \%$. The proportion responding decreased gradually with increasing levels of marijuana use; but even among those $12^{\text {th }}$ graders who reported having used marijuana on 20 or more occasions in the last 30 days, $67 \%$ participated in the first follow-up. The corresponding participation rates for the same drug use strata at the fourth follow-up (i.e., at modal ages $25-26$ ) were $66 \%$, $63 \%$, and $56 \%$, respectively. Thus, even among those who were quite heavy users of marijuana in high school, response rates at the fourth follow-up were only just over 10 percentage points lower than among those who had never used marijuana by 12th grade. That is not to say that we assume all types of drug users remain in the panels at comparably high rates. We believe that people who become dependent on or addicted to heroin or cocaine are unlikely to be retained in reasonable proportions; that is why
we are careful not to quantify or characterize these special segments of the population. But we note that they constitute very low proportions of the drug-using portion of the population, and even lower proportions of the entire adult population.

The National Survey on Drug Use and Health (NSDUH) provides the best available data against which to validate the estimates generated for adult age groups in MTF, because it is also based on national samples but uses cross-sectional surveys that do not carry the burden of panel attrition. Their results, of course, may be affected by their own nonresponse rates, but that will be true of any comparison survey. The overall response rate for NSDUH in 2011 was $74 \%$ and in 2013 was 72\%.

In 2013 and in earlier analyses, we compared the prevalence rates on a set of drugs-cigarettes, alcohol, marijuana, and cocaine-for which there was reasonable similarity in question wording across the two studies. For the 2009 and prior results, the comparisons were for the age group 19-28 in the MTF panel data and for 19-29 in the NSDUH cross-sectional data (the closest age break reported by NSDUH). We used the most recent readily available comparable data at the time of the analysis and found similar results across the years. We have since repeated the comparison using the 2013 results for both studies. The most recent analyses compare the 2013 data from both studies, with the added feature of an exact age match using 19- to 28-year-olds (rather than 19- to 29-year-olds) in the NSDUH data set.

NSDUH would be expected to have higher rates than MTF because it includes school dropouts. In fact, however, the 2009 MTF estimates for 30-day marijuana and 12-month cocaine use, when the post-stratification weights were applied, were actually higher than the NSDUH estimates: $17.0 \%$ versus $15.8 \%$ for 30 -day marijuana prevalence, and $5.2 \%$ versus $5.1 \%$ for annual cocaine prevalence. Even when the post-stratification weights were not applied, the MTF estimates were only slightly lower than the NSDUH estimates: $15.3 \%$ versus $15.8 \%$ for 30 -day marijuana use prevalence, and $4.8 \%$ versus $5.1 \%$ for prevalence of annual cocaine use. In the more recent analyses using 2013 data from both studies the results were essentially the same for marijuana ( $19.1 \%$ in MTF vs. $17.9 \%$ in NSDUH) but slightly reversed for cocaine ( $3.9 \%$ in MTF vs. $4.7 \%$ in NSDUH). The fact that the MTF estimates for both marijuana and cocaine have been similar to those observed in NSDUH suggests that attrition does not produce substantially lower estimates of illicit drug use than would be obtained if response rates were higher-particularly after our post-stratification adjustments are applied.

Comparisons for alcohol and cigarettes show larger differences, with alcohol use consistently higher in MTF and cigarette use consistently higher in NSDUH. We believe it likely that both are due to definitional differences in the exact question wording. In 2009, the MTF estimate of 30-day alcohol prevalence was $69.4 \%$ with post-stratification versus $65.9 \%$ in NSDUH. In 2013 the rates were $68.7 \%$ vs $65.0 \%$, respectively. For cigarettes, the 30 -day MTF prevalence estimate in 2009 was $23.3 \%$ with post-stratification, versus $36.7 \%$ in NSDUH. In 2013 the respective rates were $20.0 \%$ and $32.1 \%$. Because cigarette smoking rates are particularly high among dropouts, some of this difference is attributable to differences in the populations covered by the two studies. It is worth noting that the nature and magnitude of the differences between MTF and NSDUH estimates tend to be quite consistent for each of the four drugs at least as far back as 1992.

Even with attrition, substantial proportions of recent drug users remain in the MTF follow-up samples. In recent years, about $15-18 \%$ of the 19 - to 28 -year-old respondents reported marijuana use in just the prior 30 days, and about $4-7 \%$ reported cocaine use in the past 12 months. These proportions and the underlying numbers of actual cases are quite adequate for many analytic purposes.

A point worth emphasizing here is that, in the MTF panels, attrition is not as great a problem as is nonresponse in a cross-sectional study, because much is already known about each of the follow-up nonrespondents, including their (earlier) substance use, based on extensive questionnaire responses in 12th grade (and, for many, in subsequent years as well). Thus, adjustments can be made utilizing data that are highly informative about the missing individuals.

## Effects on Relational Analyses

While differential attrition (uncorrected) may contribute to some bias in point estimates and other univariate statistics, such attrition tends to have less influence on bivariate and multivariate statistics. This was found to be true in a secondary analysis of data from seven panel studies that followed adolescents over time, ${ }^{13}$ and we have found this to be true in MTF panel analyses ${ }^{14}$ and in analyses with other panel data sets. ${ }^{15}$ Thus, differential attrition may be of less concern in multivariate panel analyses focused on understanding the course, causes, and consequences of substance use. Still, as we summarized above, correcting for attrition can be important, and we continue to do so using procedures such as data imputation and FIML in our analyses for scientific publications.

## VALIDITY OF MEASURES OF SELF-REPORTED DRUG USE

Are sensitive behaviors such as drug use honestly reported? Like most studies dealing with sensitive behaviors, we have no direct, totally objective validation of the present measures; however, the considerable amount of existing inferential evidence strongly suggests that the MTF self-report questions produce largely valid data. Here we briefly summarize this evidence. ${ }^{16,17,18}$

[^26]First, using a three-wave panel design, we established that the various measures of self-reported drug use have a high degree of reliability-a necessary condition for validity. ${ }^{19}$ In essence, respondents were highly consistent in their self-reported behaviors over a three- to four-year time interval. Second, we found a high degree of consistency among logically related measures of use within the same questionnaire administration. Third, the proportion of $12^{\text {th }}$ graders reporting some illicit drug use has reached two thirds of all respondents in peak years and over $80 \%$ in some follow-up years, constituting prima facie evidence that the degree of underreporting must be very limited. Fourth, $12^{\text {th }}$ graders' reports of use by their unnamed friends-about whom they would presumably have considerably less reason to conceal information about use-have been highly consistent with self-reported use in the aggregate, in terms of both prevalence and trends in prevalence, as discussed in Chapter 9. Fifth, we have found self-reported drug use to relate in consistent and expected ways based on theory to a number of other attitudes, behaviors, beliefs, and social situations-strong evidence of construct validity. Sixth, the missing data rates for the self-reported use questions are only very slightly higher than for the preceding nonsensitive questions, in spite of explicit instructions to respondents immediately preceding the drug section to leave blank those questions they feel they cannot answer honestly. Seventh, an examination of consistency in reporting of lifetime use conducted on the long-term panels of graduating seniors found quite low levels of recanting of earlier reported use of the illegal drugs. ${ }^{20}$ There was a higher level of recanting for the psychotherapeutic drugs, suggesting that adolescents may actually overestimate their use of some drugs because of misinformation about definitions, and this misinformation is corrected as they get older. Finally, the great majority of respondents, when asked, said they would answer such questions honestly if they were users. ${ }^{21}$

As an additional step to assure the validity of the data, we check for logical inconsistencies in the answers to the triplet of questions about use of each drug (i.e., lifetime, annual, and 30-day use), and if a respondent exceeds a maximum number of inconsistencies across the set of drug use questions, his or her record is deleted from the data set. Similarly, we check for improbably high rates of use of multiple drugs and delete such cases, assuming that the respondents are not taking the task seriously. Fortunately, very few cases have to be eliminated for these reasons.

This is not to argue that self-reported measures of drug use are necessarily valid in all studies. In MTF we have gone to great lengths to create a situation and set of procedures in which respondents recognize that their confidentiality will be protected. We have also presented a convincing case as to why such research is needed. The evidence suggests that a high level of

[^27]validity has been obtained. Nevertheless, insofar as any remaining reporting bias exists, we believe it to be in the direction of underreporting. Thus, with the possible exception of the psychotherapeutic drugs, we believe our estimates to be lower than their true values, even for the obtained samples, but not substantially so.

## Consistency and Measurement of Trends

MTF is designed to be sensitive to changes from one time period to another. A great strength of this study is that its measures and procedures have been standardized and applied consistently across many years. To the extent that any biases remain because of limits in school and/or student participation, and to the extent that there are distortions (lack of validity) in the responses of some students, it seems very likely that such problems will exist in much the same proportions from one year to the next. In other words, biases in the survey estimates will tend to be consistent from one year to another, meaning that our measurement of trends should be affected very little. The smooth and consistent nature of most trend curves reported for the various drugs provides rather compelling empirical support for this assertion.

TABLE 3-1
Sample Sizes and Response Rates

|  | Number of Public Schools |  |  | Number of Private Schools |  |  | Total <br> Number of Schools |  |  |  | Total <br> Number of Students |  |  |  | Student Response Rate (\%) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grade: | 8th | 10th | 12th | 8th | 10th | 12th | 8th | 10th | 12th | Total | 8th | 10th | 12th | Total | 8th | 10th | 12th |
| 1975 | - | - | 111 | - | - | 14 | - | - | 125 | - | - | - | 15,791 | - | - | - | 78 |
| 1976 |  | - | 108 | - | - | 15 | - | - | 123 | - | - | - | 16,678 | - | - | - | 77 |
| 1977 | - | - | 108 | - | - | 16 | - | - | 124 | - | - | - | 18,436 | - | - | - | 79 |
| 1978 | - | - | 111 | - | - | 20 | - | - | 131 | - | - | - | 18,924 | - | - | - | 83 |
| 1979 | - | - | 111 | - | - | 20 | - | - | 131 | - | - | - | 16,662 | - | - | - | 82 |
| 1980 | - | - | 107 | - | - | 20 | - | - | 127 | - | - | - | 16,524 | - | - | - | 82 |
| 1981 | - | - | 109 | - | - | 19 | - | - | 128 | - | - | - | 18,267 | - | - | - | 81 |
| 1982 | - | - | 116 | - | - | 21 | - | - | 137 | - | - | - | 18,348 | - | - | - | 83 |
| 1983 | - | - | 112 | - | - | 22 | - | - | 134 | - | - | - | 16,947 | - | - | - | 84 |
| 1984 | - | - | 117 | - | - | 17 | - | - | 134 | - | - | - | 16,499 | - | - | - | 83 |
| 1985 | - | - | 115 | - | - | 17 | - | - | 132 | - | - | - | 16,502 | - | - | - | 84 |
| 1986 | - | - | 113 | - | - | 16 | - | - | 129 | - | - | - | 15,713 | - | - | - | 83 |
| 1987 | - | - | 117 | - | - | 18 | - | - | 135 | - | - | - | 16,843 | - | - | - | 84 |
| 1988 | - | - | 113 | - | - | 19 | - | - | 132 | - | - | - | 16,795 | - | - | - | 83 |
| 1989 | - | - | 111 | - | - | 22 | - | - | 133 | - | - | - | 17,142 | - | - | - | 86 |
| 1990 | - | - | 114 | - | - | 23 | - | - | 137 | - | - | - | 15,676 | - | - | - | 86 |
| 1991 | 131 | 107 | 117 | 31 | 14 | 19 | 162 | 121 | 136 | 419 | 17,844 | 14,996 | 15,483 | 48,323 | 90 | 87 | 83 |
| 1992 | 133 | 106 | 120 | 26 | 19 | 18 | 159 | 125 | 138 | 422 | 19,015 | 14,997 | 16,251 | 50,263 | 90 | 88 | 84 |
| 1993 | 126 | 111 | 121 | 30 | 17 | 18 | 156 | 128 | 139 | 423 | 18,820 | 15,516 | 16,763 | 51,099 | 90 | 86 | 84 |
| 1994 | 116 | 116 | 119 | 34 | 14 | 20 | 150 | 130 | 139 | 419 | 17,708 | 16,080 | 15,929 | 49,717 | 89 | 88 | 84 |
| 1995 | 118 | 117 | 120 | 34 | 22 | 24 | 152 | 139 | 144 | 435 | 17,929 | 17,285 | 15,876 | 51,090 | 89 | 87 | 84 |
| 1996 | 122 | 113 | 118 | 30 | 20 | 21 | 152 | 133 | 139 | 424 | 18,368 | 15,873 | 14,824 | 49,065 | 91 | 87 | 83 |
| 1997 | 125 | 113 | 125 | 27 | 18 | 21 | 152 | 131 | 146 | 429 | 19,066 | 15,778 | 15,963 | 50,807 | 89 | 86 | 83 |
| 1998 | 122 | 110 | 124 | 27 | 19 | 20 | 149 | 129 | 144 | 422 | 18,667 | 15,419 | 15,780 | 49,866 | 88 | 87 | 82 |
| 1999 | 120 | 117 | 124 | 30 | 23 | 19 | 150 | 140 | 143 | 433 | 17,287 | 13,885 | 14,056 | 45,228 | 87 | 85 | 83 |
| 2000 | 125 | 121 | 116 | 31 | 24 | 18 | 156 | 145 | 134 | 435 | 17,311 | 14,576 | 13,286 | 45,173 | 89 | 86 | 83 |
| 2001 | 125 | 117 | 117 | 28 | 20 | 17 | 153 | 137 | 134 | 424 | 16,756 | 14,286 | 13,304 | 44,346 | 90 | 88 | 82 |
| 2002 | 115 | 113 | 102 | 26 | 20 | 18 | 141 | 133 | 120 | 394 | 15,489 | 14,683 | 13,544 | 43,716 | 91 | 85 | 83 |
| 2003 | 117 | 109 | 103 | 24 | 20 | 19 | 141 | 129 | 122 | 392 | 17,023 | 16,244 | 15,200 | 48,467 | 89 | 88 | 83 |
| 2004 | 120 | 111 | 109 | 27 | 20 | 19 | 147 | 131 | 128 | 406 | 17,413 | 16,839 | 15,222 | 49,474 | 89 | 88 | 82 |
| 2005 | 119 | 107 | 108 | 27 | 20 | 21 | 146 | 127 | 129 | 402 | 17,258 | 16,711 | 15,378 | 49,347 | 90 | 88 | 82 |
| 2006 | 122 | 105 | 116 | 29 | 18 | 20 | 151 | 123 | 136 | 410 | 17,026 | 16,620 | 14,814 | 48,460 | 91 | 88 | 83 |
| 2007 | 119 | 103 | 111 | 32 | 17 | 21 | 151 | 120 | 132 | 403 | 16,495 | 16,398 | 15,132 | 48,025 | 91 | 88 | 81 |
| 2008 | 116 | 103 | 103 | 28 | 19 | 17 | 144 | 122 | 120 | 386 | 16,253 | 15,518 | 14,577 | 46,348 | 90 | 88 | 79 |
| 2009 | 119 | 102 | 106 | 26 | 17 | 19 | 145 | 119 | 125 | 389 | 15,509 | 16,320 | 14,268 | 46,097 | 88 | 89 | 82 |
| 2010 | 120 | 105 | 104 | 27 | 18 | 22 | 147 | 123 | 126 | 396 | 15,769 | 15,586 | 15,127 | 46,482 | 88 | 87 | 85 |
| 2011 | 117 | 105 | 110 | 28 | 21 | 19 | 145 | 126 | 129 | 400 | 16,496 | 15,382 | 14,855 | 46,733 | 91 | 86 | 83 |
| 2012 | 115 | 107 | 107 | 27 | 19 | 20 | 142 | 126 | 127 | 395 | 15,678 | 15,428 | 14,343 | 45,449 | 91 | 87 | 83 |
| 2013 | 116 | 103 | 106 | 27 | 17 | 20 | 143 | 120 | 126 | 389 | 15,233 | 13,262 | 13,180 | 41,675 | 90 | 88 | 82 |
| 2014 | 111 | 98 | 105 | 30 | 16 | 17 | 141 | 114 | 122 | 377 | 15,195 | 13,341 | 13,015 | 41,551 | 90 | 88 | 82 |

[^28]
## TABLE 3-2

## Substance Use Among Ages 19-28, Based on 2013 Data from Monitoring the Future and The National Survey on Drug Use and Health

|  |  | MTF | MTF |
| ---: | :---: | :---: | :---: |
|  | NSDUH |  | (Selection Weight Only) | | (Post-Stratification Weight) |  |  |
| :---: | :---: | :---: |
| Marijuana (use in past month) | 17.9 | 16.9 |
| Cocaine (use in past year) | 4.7 | 3.5 |
| Alcohol (use in past month) | 65.0 | 67.7 |
| Cigarettes (use in past month) | 32.1 | 17.5 |

Source. The Monitoring the Future study, the University of Michigan and the National Survey on Drug Use and Health.

FIGURE 3-1
Schools included in 1 Year's Data Collection
8th, 10th, and 12th Grades


Source. The Monitoring the Future study, the University of Michigan.
Note. One dot equals one school.

FIGURE 3-2
School Participation Rates


## Chapter 4

## PREVALENCE OF DRUG USE IN EARLY AND MIDDLE ADULTHOOD

Longitudinal panel studies that track the same individuals across several years are typically used to examine developmental changes with age, as is evident in many of our publications. At the same time, the multiple cohort feature of the MTF design provides a useful snapshot of each age group in a given year, showing the prevalence of use of various substances for each age group in that year, thus enabling us to compare these prevalence rates with those of the same age in earlier years. This chapter highlights such prevalence data for the adult age groups captured by MTF, starting right after high school and moving through middle adulthood. Each age group is defined by the modal age for its graduating high school class cohort. ${ }^{1}$ We will see that recent use tends to be higher in the early post-high school age groups, corresponding to the new freedoms associated with leaving high school and often moving away from the parental home. ${ }^{2,3}$ But sometimes there are also strong cohort effects that underlie differences among age groups at a given point in time; in this chapter we will see evidence of both age-related differences and cohort effects.

Estimates of drug use in the adult population are most often generated through household survey interviews of cross-sections of the general population. In the present study, our estimates come from self-completed mail questionnaires from respondents in the follow-up surveys. These are representative samples of previous classes of high school students who started their participation in MTF in their senior year. As described in more detail in Chapter 3, MTF has conducted ongoing panel studies on representative samples from each graduating high school senior class beginning with the class of 1976. From each class, two matched subpanels of roughly 1,200 students each are randomly selected to comprise long-term follow-up panels; one of these two panels is surveyed every even-numbered year after graduation, and the other is surveyed every odd-numbered year, up through age 30, after which data collection occurs at the same time for both cohorts at five-year intervals. So, while each cohort participates every year up through age 30, each individual respondent participates only every other year until age 30. This alternating panel design was chosen to reduce the repetitiveness (and burden) of participating in the panel study while still allowing for full age coverage between 19 and 30 . Thus, in a given year, the

[^29]study includes respondents age 19-30 from one of the two panels from each of the last 12 senior classes previously participating in MTF. ${ }^{4}$

In 2014, representative samples of the classes of 2002 through 2013—modal ages 19 to 30were surveyed using the same set of standard young adult survey instruments at each age. For brevity, we refer to this 19 - through 30-year-old age range as "young adults" in this chapter.

To build on these important national panels of young adults, we extend the surveys into middle adulthood. The middle adulthood surveys are conducted beginning at modal age 35 (that is, 17 years after high school graduation) and at five-year intervals thereafter. In each of these later follow-ups, the two half-panels from the relevant graduating class are both surveyed, using a single questionnaire form instead of six forms. The content of the questionnaires is revised to some degree across age to be more relevant to the different developmental periods, although key substance use and other measures remain the same. The results of the 2014 follow-up surveys characterize the population of high school graduates of modal ages 19-30, 35, 40, 45, 50, and 55. The high school dropout segment, which represents the $8 \%-15 \%$ missing from the senior year surveys, is missing from all of the follow-up surveys as well. Thus, the results presented here are not necessarily generalizable to the entire population of each age, but are generalizable to the great majority of young and middle-aged adults.

Figures 4-1 through 4-21 contain 2014 prevalence data by age, corresponding to respondents ages $19-30$, as well as $35-$ - 40 -, 45 -, 50 -, and 55 -year-olds. For comparison purposes, data are also included for the 2014 high school senior class, listed as 18 -year-olds. Figures provided in Chapter 5 contain the trend data for each of these age groups derived from the repeated crosssectional surveys, including $12^{\text {th }}$ graders and high school graduates through age 50 . In the figures in Chapters 4 and 5 , age groups spanning the young adult years have been paired into two-year intervals in order to increase the number of cases, and thus the precision, for each point estimate. The data for ages $35,40,45,50$, and 55 are, of necessity, based on a single age in each case. As indicated above, both half-samples from a given class cohort are included in each year's samples of $35-$, 40-, 45-, 50-, and 55-year-olds. In 2014 the paired half-samples came from the high school graduating classes of 1997, 1992, 1987, 1982, and 1977, respectively. The respective weighted numbers of cases were $788,902,813,877$, and 914 . (Actual unweighted numbers are somewhat higher, because those from the oversampled drug-using stratum in high schoolwhich was drawn at three times the rate of the others to assure a sufficient sample of drug users-are counted as only one third of a case in the weighted follow-up data.)

## REPLICABILITY OF FINDINGS

It is worth noting that the pattern of age-related differences showing up in any one year can be checked in an adjacent year (i.e., the previous or succeeding year's volume) for replicability,

[^30]because two non-overlapping half-samples of follow-up respondents in the 19-to-30 age band are surveyed on alternating years. In the case of the 35-, 40-, 45-, 50-, and 55-year-olds, two entirely different graduating classes make up the samples for any two adjacent, chronological years of the survey results.

## THE IMPORTANCE OF ADJUSTED LIFETIME PREVALENCE ESTIMATES

In Figures 4-1 through 4-21, two different estimates of lifetime prevalence are provided. One estimate is based on the respondent's most recent (i.e., 2014) statement of whether he or she ever used the drug in question (the light gray bar). The other estimate takes into account the respondent's answers regarding lifetime use gathered in all of the previous data collections in which he or she participated (the white bar). To be categorized as one who has used the drug based on all past answers regarding that drug, the respondent must have reported either lifetime use in the most recent data collection and/or reported some use in his or her lifetime on at least two earlier data collections. Because respondents of ages 18 through 20 cannot have their responses adjusted on the basis of two earlier data collections, adjusted prevalence rates are reported only for ages 21 and up. Most other epidemiological studies can present only an unadjusted estimate because they have data from a single cross-sectional survey. An adjusted estimate of the type used here is possible only when panel data have been gathered so that a respondent can be classified as having used a drug at some time in his or her life, based on earlier answers, even though he or she no longer indicates lifetime use in the most recent survey.

The divergence of these two estimates as a function of age shows that there is more inconsistency as time passes. Obviously, there is more opportunity for inconsistency as the number of data collections increases. Our judgment is that the truth lies somewhere between the two estimates: the lower estimate may be depressed by tendencies to forget, forgive, or conceal earlier use, and the upper estimate may include earlier response errors or incorrect definitions of drugs that respondents appropriately corrected in later surveys as they became more knowledgeable. It should be noted that a fair proportion of those giving inconsistent answers across time had earlier reported having used the given drug only once or twice in their lifetime.

As we have reported in depth elsewhere, the cross-time stability of self-reported usage measures, taking into account both prevalence and frequency of self-reported use, is still very high. ${ }^{5}$ Note that the divergence between the two lifetime prevalence estimates is greatest for the psychotherapeutic drugs and for the derivative index of use of an illicit drug other than marijuana, which is heavily affected by the estimates of psychotherapeutic drug use. We believe this is due to respondents having greater difficulty accurately categorizing psychotherapeutic drugs (usually taken in pill form) with a high degree of certainty-especially if such a drug was used only once or twice. We expect higher inconsistency across time when the event-and in many of these cases, a single event-is reported with a relatively low degree of certainty at quite different points in time. Those who have gone beyond simple experimentation with one of these

[^31]drugs would undoubtedly be able to categorize them with a higher degree of certainty. Also, those who have experimented more recently (i.e., in the past month or year) should have a higher probability of recall as well as fresher information for accurately categorizing the drug.

We provide both estimates to make clear that a full use of respondent information provides a possible range for lifetime prevalence estimates, not a single point. However, by far the most important use of the prevalence data is to track trends in current (as opposed to lifetime) use. Thus, we are much less concerned about the nature of the variability in the lifetime estimates than we might otherwise be. The lifetime prevalence estimates are of importance primarily in showing the degree to which a drug class has penetrated the general population overall as well as particular cohorts; we believe that the evidence from the lifetime estimates suggests that crosssectional surveys of adults are subject to underreporting and that to some degree such underreporting increases with age, because adolescence and early adulthood are the periods in the life course during which most drug use occurs. ${ }^{6}$

The reweighting procedures used to adjust the panel data for the effects of panel attrition are described in Chapter 3.

## PREVALENCE OF DRUG USE ACROSS AGE GROUPS7

Figures 4-1 through 4-21 provide 2014 prevalence rates for each class of drugs, covering respondents ages 18 to 55 . For virtually all drugs, available age comparisons show much higher lifetime prevalence for the older age groups, as would be expected. In fact, the figures reach surprisingly high levels among adults in their early 30s through their 50s.

- The adjusted lifetime prevalence figures are most striking for today's 55-year-olds (the high school class of 1977), who were passing through adolescence near the peak of the drug epidemic. Some $90 \%$ reported trying an illicit drug (lifetime prevalence, adjusted), leaving only $10 \%$ who reported never having done so (Figure 4-1). Five out of six 55-year-olds (83\%) said they had tried marijuana, and three quarters (75\%) said they had tried some other illicit drug, including $46 \%$ who had tried cocaine specifically. It is clear from Figure 4-1 that the parents of today's teenagers and young adults are a very drug-experienced generation; this, among other things, may help to explain the

[^32]acceptance of medical marijuana in a number of states and legalization of adult, recreational marijuana use in four states and the District of Columbia so far.

- In 2014, the adjusted lifetime prevalence figures among 29- to 30-year-olds reached 74\% for any illicit drug, 65\% for marijuana, 54\% for any illicit drug other than marijuana, and $19 \%$ for cocaine. Put another way, even among young Americans who graduated from high school in 2001 and 2002—after the peak of the larger drug epidemic, but near the peak of the relapse phase in the epidemic-only about a quarter (26\%) report never having tried an illegal drug.
- The 2014 survey responses, when unadjusted for previous answers, showed only modestly lower lifetime prevalence for 29- to 30-year-olds: $68 \%$ for any illicit drug, $62 \%$ for marijuana, $46 \%$ for any illicit drug other than marijuana, and 17\% for cocaine.
- Despite the higher lifetime prevalence rates among older age groups, these groups generally showed annual or 30-day prevalence rates that are considerably lower than those of today's $12^{\text {th }}$ graders or young adults, suggesting that the incidence of quitting more than offsets the incidence of initiating use of these drugs during the years after high school.

In analyses published elsewhere, we looked closely at patterns of change in drug use with age and identified post-high school experiences that contribute to declining levels of annual or current use of drugs as respondents grow older. For example, the likelihood of marriage increases with age, and we have found that marriage is consistently associated with declines in alcohol use, heavy drinking, marijuana use, and cocaine use, and most likely just about all of the other illicit drugs as well. ${ }^{8}$

- For use of any illicit drug (Figure 4-1), 2014 lifetime prevalence (unadjusted) was about $65 \%$ to $68 \%$ among 25 - to 40 -year-olds versus $49 \%$ among $12^{\text {th }}$ graders. Annual prevalence was highest among 19- to 20-year olds and 21- to 22-year-olds in 2014 (41\%) and lowest among the older age groups, reaching $32 \%$ among 29 - to 30 -year-olds and $16 \%$ among 55 -year-olds. Current (30-day) prevalence shows the rate generally declining with each age band, from $24 \%$ among $12^{\text {th }}$ graders to $17 \%$ among 29 - to 30 -year-olds. Among the 40 - to 55 -year-olds, current use was down to $9 \%$ to $11 \%$
- Lifetime prevalence rates for marijuana are higher with each increase in age level generally, except for a dip among 40 -year-olds from the class of 1992, who graduated

[^33]from high school at a relatively low point in the recent history of teenage marijuana use. (This pattern is true for several other illicit drugs.) However, annual and 30-day prevalence rates for marijuana generally decline from ages 22 to 45 , and then remain fairly level through age 55. Thus, it is clear that greater proportions of the older cohorts have discontinued use (Figures 4-1, 4-2, and 4-3). The annual and 30-day prevalence rates were fairly equivalent for 18-, 19- to 20-, and 21- to 22-year-olds in 2014.

- Current daily marijuana use shows considerable variation across age (as shown in Figure $4-3$ in this chapter as well as in Figure 5-3c in Chapter 5). In 2014 prevalence ranged from $6-8 \%$ for those respondents 18 to 26 years old to about $2-3 \%$ for the age groups from 40 to 55 years old. (Clearly, most respondents who were daily users at some point in their teenage years are no longer daily users.)
- Synthetic marijuana refers to a set of substances that contain synthetic cannabinoids that are meant to mimic the effects of cannabinoids found in natural marijuana; synthetic cannabinoids are created artificially and typically sprayed on herbal and plant material, which is then smoked. These substances have been sold over-the counter in head shops, gas stations, on the Internet, and in other venues under various brand names like "spice" and "K-2." In 2011 the Drug Enforcement Administration scheduled five of the chemicals most commonly used, but often chemists are able to adjust the chemical composition just enough to evade the prohibitions. The American Association of Poison Control Centers has reported a substantial increase since 2010 in calls about adverse reactions to synthetic marijuana. ${ }^{9}$ A question about the use of these products was added to both the MTF in-school and follow-up surveys in 2011. Some $5.8 \%$ of the 2014 seniors reported using synthetic marijuana in the prior 12 months, while among all young adults ages 19 to 30 years, the annual prevalence in 2014 was $1.3 \%$ with no identifiable pattern related to age (Table 4-3).
- Another important class of synthetic drugs called bath salts was added to the MTF questionnaires in 2012. Fortunately, the rates of use of these dangerous over-the-counter stimulants, which are intended to mimic the effects of amphetamines, are quite low at this point. In 2014, the high school seniors had an annual prevalence rate of $0.9 \%$, and all of the other age groups had rates of $0.5 \%$ or less with the single exception of 23 - to 24 -yearolds $(0.7 \%)$. Data from the National Poison Control Centers suggest that use of these drugs peaked prior to 2012; the decline thereafter was quite possibly the result of heavy media coverage of adverse effects.
- Adjusted rates for lifetime use of any illicit drug other than marijuana (Figure 4-2) showed an appreciable rise with age, reaching $54 \%$ for the 29 - to 30 -year-old age group and $75 \%$ among 55-year-olds. In other words, about three quarters of all 55-year-olds have tried some illicit drug other than marijuana, and more than half of today's 30-yearolds have done so. Current (past 30-day) use shows a slight rise and then a decline across

[^34]age bands; rates range from $8 \%$ among $12^{\text {th }}$ graders to a high of $11 \%$ among $19-$ to $20-$ and 21- to 22-year-olds, and then down to $4-5 \%$ for the age groups above 35 . After ages $21-22$, annual use is generally lower with increased age of the respondent. A number of the individual drugs that comprise this general category show lower rates of use at higher ages for annual prevalence, usually with the highest rate observed at ages 18-22. This is particularly true for amphetamines, hallucinogens, LSD specifically, hallucinogens other than LSD, and inhalants. The falloff with age is not as great nor as consistent for cocaine, crack, other cocaine, crystal methamphetamine (ice), heroin, narcotics other than heroin, sedatives (barbiturates), and tranquilizers, though in general, usage rates are somewhat lower among those in their 30s than among those in their early 20s. Several of these classes of drugs are discussed individually next.

- Hallucinogens (Figure 4-10) have been used by a fair proportion of adults. Adjusted lifetime rates were between $25 \%$ and $29 \%$ for those ages $35,40,45$, and 50 . Lifetime prevalence was lower at younger ages, and was at $12 \%$, adjusted, at ages 21 to 22 . Annual prevalence declined with age, $6 \%$ at age $19-20$, and $2 \%$ at age 29-30; and $1 \%$ or less at the older ages.
- LSD (Figure 4-11) was the most prevalent hallucinogen for some time. It had a fairly limited lifetime prevalence among young adults in 2014, reaching a high of $11 \%$ adjusted by ages 29 to 30. Annual prevalence was highest among 19 to 20 -year-olds at $4 \%$, falling thereafter to only $1 \%$ by ages 25 to 26 and above. Use was not asked of those over age 30.
- Hallucinogens other than LSD (Figure 4-12), which means psilocybin for the most part ("magic mushrooms"), had a higher lifetime prevalence among young adults in 2014 than LSD, reaching $21 \%$ by ages 29 to 30 . Annual prevalence was higher as well, ranging from $4 \%$ at ages 19 to 20 and $2 \%$ at ages 29 to 30 . Use is not asked of those over age 30 .
- Inhalants showed some very interesting differences across age strata (Figure 4-13). There was a modest difference across age in contemporaneously reported lifetime prevalence, but a considerable difference in the lifetime prevalence figure adjusted for previous reporting of use. The adjusted pattern-an increase with age-is almost certainly the more accurate one. Annual prevalence declined with age, while 30-day rates were already quite low by $12^{\text {th }}$ grade and do not have much more room to decline. Clearly, current use of inhalants is almost absent beyond about age 20, and we know from data presented in Volume I that much of the decline in use with age has already occurred by $10^{\text {th }}$ grade. Use is not asked of those over age 30 .
- For amphetamines used without a doctor's orders, lifetime prevalence was much higher among the older age groups, reflecting in part the addition of new users who initiate use in their 20s, but also reflecting some cohort differences (Figure 4-4). As is true for most psychotherapeutic drugs, corrected lifetime prevalence and contemporaneously reported lifetime prevalence diverge considerably. However, more recent use, as reflected in the annual prevalence figure, was considerably lower among the older age groups. This has not always been true; the present pattern reflects a sharper historic decline in use among
older respondents than has occurred among $12^{\text {th }}$ graders, as well as cohort differences in having ever used these drugs. These trends are discussed in the next chapter.
- Ritalin, an amphetamine widely prescribed for the treatment of attention deficit hyperactivity disorder or ADHD, shows a relatively low annual prevalence of nonmedical use (between $1.0 \%$ and $2.1 \%$ between ages 19-30; Table 4-3).
- Adderall, a similar and newer drug, showed a substantially higher annual prevalence of non-medical use in 2014, compared to Ritalin, and dropped off in use with age, from 8$10 \%$ among 19 - to 22 -year-olds to $5.2 \%$ among 29 - to 30 -year-olds. The higher rates of use among those in their early 20s are consistent with the interpretation that initially Ritalin and perhaps now Adderall are sometimes used by college students to enhance their academic performance (Table 4-3). Respondents over age 30 are not asked about Ritalin or Adderall use.
- Questions on the use of methamphetamine are contained in only two of the six questionnaire forms for young adults, so estimates are less reliable than those based on all six forms. In 2014 unadjusted lifetime use increased with age, from $0.6 \%$ for $19-$ to $20-$ year-olds to $8.2 \%$ for 29 - to 30 -year-olds, and adjusted figures are only slightly higher. This suggests that much initiation of methamphetamine use occurs after high school, though more recent graduating cohorts have been reporting considerably lower levels of use. Annual prevalence did not vary with age, however, remaining at $0-1 \%$ from ages $18-30$ in this population of high school graduates (Table 4-3 and Figure 4-5.) Respondents over age 30 are not asked about methamphetamine use.
- Crystal methamphetamine (ice) is also included on only two questionnaire forms through age 30 and is not asked of older respondents. Among the 19- to 30-year-old respondents combined, only $0.4 \%$ now reported any use in the prior year-slightly lower than the $0.8 \%$ reported by $12^{\text {th }}$ graders (Table 4-3 and Figure 4-6).
- Sedatives (barbiturates) showed lifetime prevalence rates for non-medically prescribed use that rose from ages 19 through 35; rates were lower at age 40, and then increased in subsequent age bands. This was consistent with the sharp falloff in sedative use among $12^{\text {th }}$ graders in the early years of the study, giving rise to a cohort effect. Annual use was much more similar across ages 19 to 40 at about $3-4 \%$ and was slightly lower in the older age bands at $2 \%$ (Figure 4-14). At present, past 30-day usage was quite low at all ages; it was highest for age 18 at $2 \%$ and fell to $1 \%$ in all older age bands. Because of the substantial long-term decline in sedative (barbiturate) use over the life of MTF, the 55-year-olds had, by far, the highest adjusted lifetime prevalence rate (34\%); but they were not any more likely to be currently using than the younger age groups. ${ }^{10}$

[^35]- Non-medically prescribed use of tranquilizers (Figure 4-16) shows a general increase with age in lifetime prevalence; however, it dips some among those age 40, again reflecting the increased use among adolescents in the 1990s. The highest lifetime rates are found among those over 40, with the oldest cohorts having much higher levels. Despite that fact, there is some modest decrease with age in annual prevalence after age 35. Among those 35 and younger, annual prevalence was between $4 \%$ and $6 \%$. Thirtyday prevalence was $1-2 \%$ across all age groups. During young adulthood, lifetime prevalence of non-medically prescribed use of narcotics other than heroin adjusted (Figure $4-15$ ) was highest at $31 \%$ at ages 29 to 30 in 2014, and then fell off to $26 \%$ at age 40. After age 40 the lifetime rates were higher again. Annual prevalence hovered between $5 \%$ and $8 \%$ up through age 35, fell to $3-4 \%$ from age 40 to 55. Thirty-day prevalence showed a somewhat similar profile, with rates at $2-3 \%$ up through age 35 and then $1 \%$ in all age strata thereafter. Figure $4-15$ shows the cohort effects of the upturn in the use of narcotic drugs in recent years, with those ages 29-30 and 35 having higher lifetime prevalence rates than 35- and 40-year-olds. Cocaine had generally presented a unique case among the illicit drugs, in that lifetime, annual, and current prevalence rates have all tended to rise with age into the 20s. By 1994, however, 30-day cocaine use had reached such low levels that there is little variation by age. Following the resurgence of cocaine use in the 1990s, some differences by age in annual prevalence emerged, though there are still rather few differences for current prevalence (Figure 4-7). Annual prevalence was highest among respondents ages 19 through 35 (at 5-6\%) in 2014, with $12^{\text {th }}$ graders a bit lower at $3 \%$; and use fell off to $1-2 \%$ in the age groups beyond 35 . The cohort differences in lifetime cocaine use were particularly vivid, with the 50- and 55-year-olds showing $41 \%$ and $46 \%$ adjusted lifetime prevalence rates, respectively, in 2014, compared to $8 \%$ among 21 - to 22 -year-olds. Very few (less than $1 \%$ ) of the $35-$ to $55-$ year-olds today are current users of cocaine, despite the fact that so many of them have used it at least once in their lifetime. Among 55 -year olds, $46 \%$ used cocaine at some time in their life, but only $0.5 \%$ reported using it in the past month. In other words, noncontinuation rates for cocaine are now extremely high.
- In 2014, lifetime prevalence of crack use (Figure 4-8) was much lower than general cocaine use, and rose fairly steadily between ages 19 to 20 (1\%) and ages 25 to 26 (3\%, unadjusted); it was considerably higher among 50 - and 55 -year-olds ( $19 \%$ and $9 \%$, unadjusted, respectively), reflecting something of a cohort effect due to the rather transient popularity of crack in the early to mid-1980s and a brief resurgence in the mid1990s. Current (30-day) prevalence was $0.4 \%$ or below in all of these age groups. Annual prevalence was highest among 18 -year-olds at $1.1 \%$ and between $0.1 \%$ and $0.9 \%$ for all other age groups. We believe that the prevalence estimates for crack are especially likely to be impacted by the omission of high school dropouts. It seems likely that any panel respondents who become dependent on crack (or other illicit drugs like heroin) would be less likely than average to respond to the questionnaires; therefore, such extreme users are no doubt underrepresented among the panel respondents.
- Ecstasy (MDMA) is asked about in three of the six follow-up questionnaire forms. In 2014, among all 19- to 30 -year-olds combined, $12 \%$ said they have tried ecstasy, compared to $5.6 \%$ of $12^{\text {th }}$ graders. The age differences in lifetime ecstasy use were quite dramatic, with adjusted prevalence increasing sharply with age stratum and showing the
highest rate (17\%) at ages 29-30 (Figure 4-17). This very likely reflects the rapid rise in ecstasy use among high school seniors between 1997 and 2001, and the subsequent sharp decline. Because annual prevalence was at $6 \%$ or below at ages 19-30 in 2014 and $3 \%$ or less at older ages, there clearly has been a high degree of noncontinuation of the use of this drug. Thirty-day ecstasy use was at 2\% or less among 18-30 year olds in 2014 and $1 \%$ or less in the older age groups. Ecstasy use is not asked of those age 35 or older.
- A question about the use of salvia was introduced into one questionnaire form in 2009 as a single tripwire question asking only the frequency of use in the past twelve months (Table 4-3). Salvia is not currently regulated by the federal government, but a number of states have restrictions on it, and other states are considering restrictions. Salvia has some mild hallucinogenic properties, and there has been considerable attention in the media paid to its potential for harm. Annual prevalence for ages 19 through 30 combined stood at $1.0 \%$ in 2014, but prevalence declined with ascending age from $1.7 \%$ among 19 - to 20 -year-olds down to $0.4 \%$ among 29 - to 30 -year-olds. Older respondents are not asked the question.
- Note: The question about Provigil was dropped in 2012. Another drug introduced for the first time in the 2009 survey was Provigil, a prescription stay-awake drug. It appears that this drug had not made serious inroads in the young adult population as of 2011, because annual prevalence, as determined by a single tripwire question, was only $0.0-0.4 \%$ among those ages 19-30, and showed no clear relationship to age. As a result, the question about Provigil use was dropped in 2012.
- All alcohol prevalence measures were higher among young adults than among $12^{\text {th }}$ graders, and they generally increased after high school, through at least the mid-20s (Figures 4-20a and 4-20b). Prevalence rates varied only modestly among the older age groups. Lifetime prevalence changed very little after ages 27 to 28, due in large part to a "ceiling effect." Current 30 -day use rose from $37 \%$ among 18 -year olds to a peak of $77 \%$ among 27-28 year olds, then declined slowly through age 55, down to $64 \%$ among 55-year-olds. (An exception is that 40-year-olds again had a slightly lower rate than expected.) Current daily drinking (Figure 4-20b) increased gradually with age, from 2\% among 18 -year-olds to $10 \%$ among ages 50 and 55 . Among the various measures of alcohol consumption, occasions of heavy drinking (i.e., having five or more drinks in a row on at least one occasion in the two weeks prior to the survey, sometimes called "binge drinking") showed some considerable differences by age (Figure 4-20b). There was a large difference between 18 -year-olds (19\%) and 19- to 20 -year-olds (28\%) and 21- to 22-year olds (36\%), who have the highest prevalence of such heavy drinking. At ages 23 through 30, the rate remained quite high (at between $31 \%$ and $35 \%$ ). There was a falloff by age 35 and then a plateau at between $22 \%$ and $24 \%$ through age 50. Age 55 had a slightly lower rate at $18 \%$. We have interpreted this curvilinear relationship as reflecting an age effect-not a cohort effect-because it seems to replicate across different graduating class cohorts and also because it has been linked directly to agerelated events such as leaving the parental home (which increases heavy drinking) and
marriage (which decreases it), both of which are, in turn, related to attending college. ${ }^{11}$ Clearly, binge drinking is most popular among people in their twenties and falls off after that. Still, substantial fractions of older age groups engage in such drinking ( $22 \%$ to $24 \%$ at ages $35-50$ and $18 \%$ at age 55).

Extreme binge drinking is a concept that was introduced into MTF surveys in 2005. Two measures are used; drinking 10 or more drinks on one or more occasions in the prior two weeks and drinking 15 or more drinks on one or more occasions in the prior two weeks. ${ }^{12}$ The prevalence rate among all young adults of having 10 or more drinks on at least one occasion in the two weeks prior to the survey was $11.2 \%$ across the years 2005 to 2014 combined or roughly one in every nine respondents. The comparable prevalence for having 15 or more drinks was $4.3 \%$ or roughly one in 23 respondents. As with binge drinking at the 5+ drink level, there are differences across age groups among young adults in their extreme binge drinking rates. Both measures of extreme binge drinking were highest among those 21 - to 22 -years of age ( $14.1 \%$ for $10+$ drinks and $6.1 \%$ for $15+$ drinks): they declined with each higher age band, reaching $8.9 \%$ and $2.6 \%$, respectively, by ages 29 to 30. (No figure or table shown.) These questions are not asked of those over age 30 .

- Cigarette smoking showed an unusual pattern of age-related differences, influenced to some extent by cohort differences (Figure 4-21). Current (30-day) smoking rates used to be about the same for $12^{\text {th }}$ graders and those in their early 20 s , partly because most initiation of cigarette use happens in high school. Beginning in 2005, however, current smoking was somewhat lower among $12^{\text {th }}$ graders, almost surely due to the sharp drop in smoking that has been occurring among secondary school students-a cohort effect evident as early as $8^{\text {th }}$ grade. Smoking at heavier levels such as a half pack daily was (and has been) higher among those in their 20s than among $12^{\text {th }}$ graders, as many light or moderate smokers in high school transition into a pattern of heavier use after high school. ${ }^{13}$ At later ages, a rising proportion of current smokers-that is, those reporting any smoking in the past 30 days-also reported smoking at the daily and half-pack-a-day or more rates. Through age 26 a majority of those indicating any smoking in the prior year were not daily smokers; the proportion then declined with age so that by age 55 less than a quarter of those who smoked in the prior year were not daily smokers.

[^36]The prevalence of smoking half a pack or more of cigarettes per day rose from 3\% among 18 -year-olds to $8 \%$ by ages $29-30$ and then increased slightly to $9-11 \%$ among those 35 and older with one exception- 40 -year-olds showed a $7 \%$ rate. The proportion of current smokers who smoked a half-pack or more per day also rose with age: about one fifth among 18 year olds ( $3 \%$ smoking a half-pack or more divided by $14 \%$ who are 30-day smokers), about two fifths among 29- to -30-year-olds (8\% smoking a half-pack or more divided by $19 \%$ who are 30 -day smokers), and about three fourths among 55-year-olds ( $11 \%$ smoking a half-pack or more divided by $15 \%$ who are 30 -day smokers).

- Past 30-day prevalence of smokeless tobacco use stood at $9.0 \%$ among all young adults (most of it by males, as will be discussed below) in 2014. Daily prevalence was $2.5 \%$ (Tables 4-4 and 4-5).
- Questions have been added recently on the consumption of tobacco in various specific forms other than cigarettes. Tripwire questions were added for these forms of tobacco use in 2011, providing only annual prevalence and frequency data (Table 4-3). Past-year prevalence of use in 2014 among 19- to 30 -year-olds was $21 \%$ for using a hookah to smoke tobacco, $17 \%$ for smoking small cigars, $5 \%$ for using snus, and only $0.6 \%$ for using dissolvable tobacco. Among young adults, hookah smoking was highest among 19to 20 -year-olds at $33 \%$ and declined steadily to $10 \%$ at ages 29 to 30 . (Rather than being an age effect, this could represent the recency of the popularity of this practice.) Annual prevalence of smoking small cigars was also highest among 19- to 20-year-olds at $24 \%$ and lower at increasing ages, dropping to $13 \%$ in the 29 - to 30 -year-old age band. Annual prevalence of use of snus was at $4.8 \%$ among 19 - to 30 -year-olds and did not vary much by age. Annual prevalence of dissolvable tobacco use was only $0.6 \%$ among 19- to 30-year-olds, with all age groups at $1.5 \%$ or less.
- Questions on steroid use (Figure 4-18) were added to one questionnaire form in 1989 and to an additional form in 1990, making it difficult to determine age-related differences with much accuracy due to limited sample sizes. Overall, $1.9 \%$ of all 19 - to 30 -year-olds in 2014 reported having used steroids in their lifetime and $0.6 \%$ in the prior 12 months. Questions about steroid use are not asked of respondents over age 30.

In sum, lifetime prevalence rates in some of the older age groups, who passed through adolescence in the heyday of the drug epidemic, studied here showed remarkably high lifetime rates of illicit drug use-particularly when lifetime prevalence was corrected for the recanting of previously reported use. However, current use of most illicit drugs was substantially lower among those over age 30 than among those in their late teens to early 20s. For the two licit drugs, alcohol and cigarettes, the picture is different, with less falloff in active use with age and higher levels of daily alcohol use in the older ages.

## PREVALENCE COMPARISONS FOR SUBGROUPS OF YOUNG ADULTS

Subgroup differences for 19- to 30 -year-olds are presented in Tables 4-1 through 4-5. While Table 4-1 provides only gender differences, the remaining tables have prevalence rates by
gender, age, region of the country, and population density. Each of these subgroup dimensions is discussed separately below.

## Gender Differences

In general, most of the gender differences in drug use that were observed in high school students may be found in the young adult (19- to 30-year-old) sample as well. See Tables 4-1 and 4-3 for the full set of gender comparisons.

- Among the full young adult sample ages 19 to 30, more males than females reported pastyear use of any illicit drug (40\% vs. 34\%), marijuana (34\% vs. 28\%), and any illicit drug other than marijuana (24\% vs. 19\%).
- Males had higher annual prevalence rates for nearly all illicit drugs-with ratios of two times greater or more for synthetic marijuana, hallucinogens, LSD, hallucinogens other than LSD, salvia, heroin without a needle, GHB, ketamine, bath salts, and steroids (Table 4-3).
- All three measures of cocaine use showed higher rates of use by male than female 19- to 30 -year-olds. Annual cocaine use was reported by $6.9 \%$ of males and $3.6 \%$ of females, powder cocaine use by $6.3 \%$ of males and $3.6 \%$ of females, and crack use by $0.5 \%$ of males and $0.4 \%$ of females.
- Other large gender differences among 19- to 30-year-olds were found in daily marijuana use ( $9.0 \%$ for males vs. $5.2 \%$ for females), daily alcohol use ( $7.4 \%$ vs. $4.1 \%$ ), and occasions of drinking five or more drinks in a row in the prior two weeks ( $43 \%$ vs. 26\%).
- There is a particularly large gender difference in the measures of extreme binge drinking based on years 2005-2014 combined: the rate for having 10 or more drinks on at least one occasion in the prior two weeks was 17.2 \% for males vs. $5.7 \%$ for females. The rate for having 15 or more drinks in that interval was $7.0 \%$ for males and $1.4 \%$ for females. (Note that only 2014 data are given in Table 4-1; given the low numbers of respondents asked about extreme binge drinking, we combine the 2005-2014 data in our above discussion.)
- Synthetic marijuana use was higher among young adult males than females ( $2.4 \% \mathrm{vs}$. $0.6 \%$ ), as was use of bath salts ( $0.7 \%$ vs. $0.3 \%$ ).
- Ecstasy (MDMA) use was slightly higher among males than among females with annual prevalence of $5.4 \%$ and $3.4 \%$, respectively.
- Annual prevalence of use of narcotics other than heroin outside of medical supervision was also slightly higher among males than females ( $7.4 \%$ versus $5.5 \%$ ). Use of Vicodin, one of the most widely used drugs in the class, was $7.0 \%$ and $3.9 \%$, respectively. The gender difference for $\boldsymbol{O x y C o n t i n}$ was $3.0 \%$ for males vs. $2.3 \%$ for females.
- The use of amphetamines was slightly higher among males than among females with annual prevalence of $8.8 \%$ and $6.8 \%$, respectively.
- In the 1980s, there were few differences between males and females in their rates of cigarette use. By the early 1990s, however, males had slightly higher rates of use. In 2014, 19- to 30 -year-old males were more likely than females to have smoked in the past month ( $21 \%$ vs. $16 \%$ ), to have smoked daily in the past month ( $12 \%$ vs. $10 \%$ ), and to have smoked half a pack or more per day in the past month ( $7.6 \%$ vs. $6.3 \%$ ). These gender differences reflect a cohort effect in which the differences between the genders in high school during the 1990s are carried up the age spectrum.
- Among young adults there was a large gender difference in 2014 in the use of smokeless tobacco, with males much more likely than females to have used in the prior month ( $16.2 \%$ vs. $3.8 \%$ ). Almost all past-year use of snus occurred among males ( $9.7 \%$ vs. $1.5 \%$ among females) as was true for dissolvable tobacco ( $1.6 \% \mathrm{vs} .<0.05 \%$, respectively).
- Males were nearly three times as likely to have smoked small cigars in the past year as females ( $29 \%$ vs. $10 \%$ ). The same was true for past 30 -day use of flavored little cigars ( $9 \%$ vs $3 \%$ ) and regular little cigars ( $9 \%$ vs. $2 \%$ ).
- There was less gender difference in the use of hookah pipes (24\% vs. 19\%, respectively).
- Steroid use among young adults was much more prevalent among males than females, as was true for $12^{\text {th }}$ graders. Among $12^{\text {th }}$ graders in 2014, $2.0 \%$ of males reported steroid use in the past year versus $0.7 \%$ of females. These statistics were much lower among 19- to 30 -year-olds, but use by males remained higher (1.1\% for males vs. $0.3 \%$ for females).


## Regional Differences

Follow-up respondents are asked in what state they currently reside. States are then grouped into the same regions used in the analysis of high school data. ${ }^{14}$ Tables 4-2 through 4-5 present regional differences in lifetime, annual, 30-day, and current daily prevalence for 19- to 30-yearolds combined.

- There exist some regional differences in the annual prevalence of marijuana use, with rates being higher in the Northeast (36\%) and West (33\%) than the Midwest (28\%) and the South (27\%). Likewise, regarding annual prevalence of any illicit drug use, rates were higher in the Northeast (41\%) and West (38\%) than in the Midwest (35\%) and South (34\%).

[^37]- At present, the use of any illicit drug other than marijuana (Table 4-3) was highest in the Northeast (24\%) and about equivalent in the South, West, and Midwest (all at $20 \%$ to 21\%).
- The annual prevalence rate for synthetic marijuana did not differ significantly by region (Table 4-3).
- The West and Northeast continued to have higher rates than the other two regions for hallucinogen use, though the regional differences were not large (Table 4-3). LSD use was highest in the Northeast while the use of hallucinogens other than LSD was highest in the West (3.6\%) and Northeast (3.2\%).
- For ecstasy (MDMA), annual prevalence was higher in the West (5.8\%) and Northeast (5.1\%) than in the other two regions ( $2.9 \%$ to $3.7 \%$ ).
- For the remaining illicit drugs, current regional differences were not substantial (Tables $4-3$ and 4-4).
- Prevalence rates for alcohol use are typically somewhat higher in the Northeast and Midwest regions than in the South and West; this pattern still pertains and has generally been true among $12^{\text {th }}$ graders as well. For binge drinking among 19- to 30-year-olds, the Northeast and Midwest were at $39 \%$ and $40 \%$ respectively, with the West at $30 \%$ and the South at $28 \%$. Self-reported drunkenness showed a similar pattern, as would be expected.
- Cigarette smoking among young adults was now fairly evenly distributed across the four regions, with 30 -day prevalence ranging from $15 \%$ in the West to $19 \%$ in the South and Midwest (Table 4-4). Smoking a half pack or more per day was distinctly lower in the West at $4.5 \%$ versus a range of $7.2 \%$ to $8.2 \%$ in the other three regions (Table $4-5$ ).
- Use of flavored little cigars (Table 4-4) was highest in the West with a 30-day prevalence of $8.4 \%$ and lowest in the Midwest (4.1\%). (Note that the region with the lowest rate of cigarette smoking - the West-has the highest rate of flavored little cigar use.) The use of regular little cigars (i.e., non-flavored) was also highest in the West (with a 30-day prevalence of $9 \%$ ), followed by the Northeast (6\%), the South (4\%), and the Midwest (3\%).
- The use of large cigars was evenly distributed across the four regions at between $5 \%$ and 7\% annual prevalence-considerably lower than for small cigars (Table 4-3).
- The 30-day prevalence of smokeless tobacco use (Table 4-4) among young adults was considerably higher in the South (14\%) and Midwest (10\%) than in the Northeast (5\%) and West (3\%). The use of snus in the prior year was highest in the Midwest and Northeast, while use in the prior year of a hookah to smoke tobacco was lowest in the South (18\%) and about equivalent in the other three regions, ranging from $22 \%$ to $23 \%$ (Table 4-3).


## Population Density Differences

Population density is measured by asking respondents to select the response category that best describes the size and nature of the community where they lived during March of the year in which they completed the follow-up questionnaire. The various categories are listed in Tables 42 through 4-5; the population sizes given to the respondent to help define each level are provided in a footnote to each table. An examination of the 1987 and 1988 drug use data for the two most urban strata revealed that the modest differences in prevalence rates between the suburbs and their corresponding cities were not worth the complexity of reporting them separately; accordingly, since then these categories have been merged to increase sample sizes. See Tables $4-2$ through 4-5 for the tabular results on 19- to 30-year-olds combined.

- Differences in illicit drug use by population density tend to be very modest, perhaps more modest than is commonly supposed. Among the general population, use of most illicit drugs is broadly distributed among all areas from rural to urban. To the extent that there are variations, almost all of the associations are positive, with rural/country areas having the lowest levels of use, and small towns having the next lowest. Medium-sized cities, large cities, and very large cities tend to be higher, with only small variations among them. Positive associations with population density exist for annual prevalence of any illicit drug, any illicit drug other than marijuana, marijuana, hallucinogens other than LSD, ecstasy (MDMA), cocaine, powder cocaine, amphetamines, Adderall specifically, tobacco using a hookah, and small cigars. The association was strongest for cocaine in 2014, where the annual prevalence rate in the very large cities (7.5\%) was more than two times that in farm/country (2.9\%).
- The use of bath salts, salvia, synthetic marijuana, sedatives, tranquilizers, GHB, Ketamine, and steroids does not vary significantly by population density.
- In 2014 annual prevalence of methamphetamine use was highest in the farm/country stratum with relatively little difference among the other strata (Table 4-3).
- Among young adults, the lifetime and annual alcohol use measures all showed a slight positive association with population density, while 30-day use had a somewhat stronger positive association, with $57 \%$ of the farm/country stratum reporting alcohol use in the prior 30 days versus $77 \%$ of those in very large cities.

Occasions of heavy drinking were positively associated with population density as well (Table 4-5), with $29 \%$ of those in the farm/country stratum indicating having had five or more drinks in a row at least once in the prior two weeks compared to $39 \%$ of those in the very large cities. Daily alcohol use in the prior month was also positively associated with population density in 2014 with $4.8 \%$ of young adults in the farm/country stratum indicating daily use versus $6.6 \%$ in the very large cities.

- Contrary to what we find for almost all other substances, there exists a negative association between population density and daily cigarette smoking, which was highest in the farm/country stratum (thirty day prevalence of 21\%) and lowest in the large and very large cities (daily prevalence rates of $16 \%$ and $17 \%$, respectively). Smoking at the
half-pack-a-day level in the prior 30 days was about two and one-half times as high in the farm/country stratum as in very large cities ( $11 \%$ vs. $4 \%$, respectively; Table 4-5).
- The use of small cigars in the prior year was very evenly distributed across all population density strata (ranging from $16.4 \%$ to $18.4 \%$ ).
- Use of flavored little cigars in the prior 30-days was highest in the farm/country stratum (10\%) and lower in all other strata ( $3 \%$ to $7 \%$ ), whereas use of regular little cigars was highest in the very large cities (9\%) and large cities (7\%) and lower in the less urban strata (3\% to 4\%).
- Hookah smoking was higher in the cities of all sizes (from $23 \%$ to $26 \%$ using in the prior year) than in the small town (18\%) or farm/country strata (12\%).
- On the other hand, smokeless tobacco use was lowest in the two most urban strata (with 30 -day prevalences of around 6\%) versus all other strata (from $9 \%$ to $12 \%$ ). See Table 44.
- The use of snus by young adults also was more concentrated in the farm/country stratum ( $8.0 \%$ annual prevalence) versus $3 \%$ to $6 \%$ in the other strata (Table 4-3).

TABLE 4-1
Prevalence of Use of Various Types of Drugs by Gender among Respondents of Modal Ages 19-30, 2014
(Entries are percentages.)

|  | Males | Females | Total |
| :---: | :---: | :---: | :---: |
| Approximate Weighted $N=$ | 2,000 | 3,000 | 5,000 |
| Any Illicit Drug ${ }^{\text {a }}$ |  |  |  |
| Annual | 39.8 | 34.4 | 36.6 |
| 30-Day | 24.4 | 19.4 | 21.4 |
| Any Illicit Drug other than Marijuana ${ }^{\text {a }}$ |  |  |  |
| Annual | 23.6 | 19.2 | 21.0 |
| 30-Day | 11.4 | 8.7 | 9.8 |
| Marijuana |  |  |  |
| Annual | 34.2 | 27.8 | 30.4 |
| 30-Day | 21.6 | 16.0 | 18.3 |
| Daily ${ }^{\text {b }}$ | 9.0 | 5.2 | 6.7 |
| Synthetic Marijuana |  |  |  |
| Annual ${ }^{\text {c }}$ | 1.3 | 2.4 | 0.6 |
| 30-Day ${ }^{\text {d }}$ | 0.3 | 0.6 | 0.2 |
| Inhalants ${ }^{\text {c }}$ |  |  |  |
| Annual | 1.1 | 0.9 | 1.0 |
| 30-Day | 0.2 | 0.3 | 0.2 |
| Hallucinogens ${ }^{\text {e }}$ |  |  |  |
| Annual | 5.9 | 2.4 | 3.9 |
| 30-Day | 1.1 | 0.6 | 0.8 |
| LSD ${ }^{\text {e }}$ |  |  |  |
| Annual | 2.9 | 1.3 | 2.0 |
| 30-Day | 0.3 | 0.4 | 0.3 |
| Hallucinogens other than LSD ${ }^{\text {e }}$ |  |  |  |
| Annual | 4.7 | 1.7 | 2.9 |
| 30-Day | 1.0 | 0.3 | 0.6 |
| PCP ${ }^{\text {d }}$ |  |  |  |
| Annual | 0.1 | 0.2 | 0.2 |
| 30-Day | 0.1 | 0.2 | 0.2 |
| Ecstasy (MDMA) ${ }^{\text {c }}$ |  |  |  |
| Annual | 5.4 | 3.4 | 4.2 |
| 30-Day | 1.5 | 1.0 | 1.2 |
| Cocaine |  |  |  |
| Annual | 6.9 | 3.6 | 4.9 |
| 30-Day | 2.7 | 1.0 | 1.7 |
| Crack ${ }^{\text {e }}$ |  |  |  |
| Annual | 0.5 | 0.4 | 0.4 |
| 30-Day | 0.1 | 0.1 | 0.1 |
| Other Cocaine ${ }^{\text {f }}$ |  |  |  |
| Annual | 6.3 | 3.6 | 4.7 |
| 30-Day | 2.7 | 1.0 | 1.7 |
| Heroin |  |  |  |
| Annual | 0.4 | 0.3 | 0.4 |
| 30-Day | 0.2 | 0.1 | 0.2 |
| With a Needle ${ }^{9}$ |  |  |  |
| Annual | 0.2 | 0.2 | 0.2 |
| 30-Day | 0.1 | 0.1 | 0.1 |
| Without a Needle ${ }^{\text {g }}$ |  |  |  |
| Annual | 0.5 | 0.2 | 0.3 |
| 30-Day | 0.1 | 0.1 | 0.1 |

(Table continued on next page.)

TABLE 4-1 (cont.)
Prevalence of Use of Various Types of Drugs by Gender among Respondents of Modal Ages 19-30, 2014
(Entries are percentages.)

|  | Males | Females | Total |
| :---: | :---: | :---: | :---: |
| Approximate Weighted $N=$ | 2,000 | 3,000 | 5,000 |
| Narcotics other than Heroin ${ }^{\text {h }}$ |  |  |  |
| Annual | 7.4 | 5.5 | 6.3 |
| 30-Day | 2.3 | 2.0 | 2.1 |
| Amphetamines, Adjusted ${ }^{\text {h,i }}$ |  |  |  |
| Annual | 8.8 | 6.8 | 7.6 |
| 30-Day | 4.1 | 2.7 | 3.3 |
| Methamphetamine ${ }^{\text {g }}$ |  |  |  |
| Annual | 0.8 | 0.6 | 0.7 |
| 30-Day | 0.6 | 0.3 | 0.4 |
| Crystal Methamphetamine (Ice) ${ }^{\text {g }}$ |  |  |  |
| Annual | 0.3 | 0.4 | 0.4 |
| 30-Day | 0.1 | 0.1 | 0.1 |
| Bath Salts (Synthetic Stimulants) ${ }^{\text {c }}$ |  |  |  |
| Annual | 0.4 | 0.7 | 0.3 |
| Sedatives (Barbiturates) ${ }^{\text {h }}$ |  |  |  |
| Annual | 2.9 | 3.4 | 3.2 |
| 30-Day | 0.9 | 1.2 | 1.0 |
| Tranquilizers ${ }^{\text {h }}$ |  |  |  |
| Annual | 4.8 | 5.0 | 4.9 |
| 30-Day | 1.9 | 2.0 | 1.9 |
| Alcohol |  |  |  |
| Annual | 83.1 | 82.9 | 83.0 |
| 30-Day | 72.5 | 66.8 | 69.1 |
| Daily ${ }^{\text {b }}$ | 7.4 | 4.1 | 5.4 |
| 5+ Drinks in a Row in Last 2 Weeks | 42.9 | 26.4 | 33.1 |
| 10+ Drinks in a Row in Last 2 Weeks ${ }^{\text {d, } j}$ | 17.0 | 5.4 | 10.2 |
| 15+ Drinks in a Row in Last 2 Weeks ${ }^{\text {d, } k}$ | 7.0 | 1.4 | 3.7 |
| Been Drunk ${ }^{\text {c }}$ |  |  |  |
| Annual | 66.3 | 61.8 | 63.6 |
| 30-Day | 42.8 | 35.5 | 38.5 |
| Daily ${ }^{\text {b }}$ | 1.0 | 0.3 | 0.6 |
| Flavored Alcoholic Beverages ${ }^{\text {d }}$ |  |  |  |
| Annual | 53.0 | 53.8 | 53.5 |
| 30-Day | 26.0 | 25.6 | 25.8 |
| Cigarettes |  |  |  |
| Annual | 31.1 | 24.1 | 26.9 |
| 30-Day | 20.9 | 15.5 | 17.7 |
| Daily | 12.3 | 10.4 | 11.2 |
| 1/2 Pack+/Day | 7.6 | 6.3 | 6.8 |
| Smokeless Tobacco ${ }^{\text {d }}$ |  |  |  |
| Lifetime | 38.4 | 15.2 | 24.9 |
| 30-Day | 16.2 | 3.8 | 9.0 |
| Daily | 5.6 | 0.3 | 2.5 |
| Steroids ${ }^{\text {g }}$ |  |  |  |
| Annual | 1.1 | 0.3 | 0.6 |
| 30-Day | 0.4 | 0.2 | 0.3 |

(Table continued on next page.)

TABLE 4-1 (cont.)

## Prevalence of Use of Various Types of Drugs by Gender among Respondents of Modal Ages 19-30, 2014

[^38]TABLE 4-2
Lifetime Prevalence of Use of Various Types of Drugs by Subgroups among Respondents of Modal Ages 19-30, 2014
(Entries are percentages.)

|  | Approximate <br> Weighted N | Any Illicit Drug ${ }^{\text {a }}$ | Any Illicit Drug other than Marijuana ${ }^{\text {a }}$ | Marijuana | Inhalants ${ }^{\text {b }}$ | Hallucinogens ${ }^{\text {d }}$ | LSD ${ }^{\text {d }}$ | Hallucinogens other than LSD ${ }^{\text {d }}$ | PCP ${ }^{\text {c }}$ | Ecstasy (MDMA) ${ }^{\text {b }}$ | Cocaine | Crack ${ }^{\text {d }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 5,000 | 63.2 | 38.8 | 58.2 | 7.4 | 12.8 | 6.8 | 11.6 | 0.8 | 12.0 | 12.6 | 2.5 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 2,000 | 65.4 | 41.0 | 61.0 | 8.6 | 17.7 | 9.5 | 16.1 | 0.8 | 13.4 | 16.3 | 3.1 |
| Female | 3,000 | 61.8 | 37.3 | 56.3 | 6.7 | 9.5 | 5.0 | 8.6 | 0.8 | 11.1 | 10.1 | 2.2 |
| Modal Age |  |  |  |  |  |  |  |  |  |  |  |  |
| 19-20 | 900 | 54.0 | 29.7 | 50.2 | 4.4 | 8.5 | 5.4 | 6.9 | * | 8.8 | 6.3 | 1.3 |
| 21-22 | 800 | 58.4 | 34.6 | 54.1 | 6.0 | 10.7 | 5.4 | 9.9 | * | 10.9 | 8.0 | 1.2 |
| 23-24 | 900 | 63.8 | 37.6 | 58.7 | 8.5 | 12.0 | 6.9 | 11.0 | 1.6 | 12.0 | 12.0 | 1.7 |
| 25-26 | 900 | 66.7 | 41.0 | 61.6 | 7.0 | 13.9 | 8.0 | 12.8 | 0.4 | 13.1 | 15.2 | 3.0 |
| 27-28 | 800 | 68.2 | 43.8 | 63.1 | 7.7 | 14.6 | 7.3 | 13.6 | 1.0 | 12.1 | 17.1 | 3.6 |
| 29-30 | 800 | 68.4 | 46.3 | 62.1 | 11.0 | 17.4 | 7.9 | 15.9 | 1.6 | 15.2 | 17.4 | 4.5 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 800 | 68.6 | 42.7 | 64.8 | 8.3 | 15.1 | 9.2 | 13.5 | 0.3 | 13.2 | 14.8 | 2.4 |
| Midwest | 1,100 | 61.0 | 35.8 | 57.3 | 6.1 | 10.5 | 5.6 | 9.3 | 0.9 | 9.3 | 11.2 | 2.3 |
| South | 1,700 | 59.7 | 38.8 | 53.8 | 7.5 | 12.0 | 6.6 | 10.7 | 0.7 | 12.1 | 11.4 | 2.4 |
| West | 1,200 | 65.6 | 39.7 | 60.0 | 8.5 | 14.6 | 6.2 | 13.6 | 1.2 | 14.2 | 14.2 | 3.2 |
| Population Density ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Farm/Country | 500 | 57.1 | 32.9 | 51.0 | 8.1 | 9.2 | 5.0 | 8.3 | * | 7.3 | 9.5 | 2.7 |
| Small Town | 1,300 | 60.5 | 36.5 | 56.2 | 7.0 | 11.8 | 7.4 | 10.4 | 1.0 | 10.1 | 11.2 | 3.5 |
| Medium City | 1,300 | 61.7 | 37.1 | 56.5 | 6.1 | 10.7 | 5.8 | 9.8 | 0.6 | 11.5 | 10.9 | 1.7 |
| Large City | 1,100 | 65.5 | 39.6 | 60.1 | 7.7 | 13.4 | 6.1 | 12.0 | 0.8 | 11.6 | 13.0 | 2.2 |
| Very Large City | 700 | 71.6 | 48.6 | 67.7 | 9.4 | 20.3 | 10.2 | 18.7 | 1.1 | 19.5 | 20.0 | 3.1 |

## TABLE 4-2 (cont.)

Lifetime Prevalence of Use of Various Types of Drugs by Subgroups among Respondents of Modal Ages 19-30, 2014
(Entries are percentages.)

|  | Approximate Weighted $N$ | Other Cocaine ${ }^{f}$ | Heroin | Heroin with a Needle ${ }^{9}$ | Heroin without a Needle ${ }^{g}$ | Narcotics other than Heroin ${ }^{h}$ | Amphetamines ${ }^{\text {n,i }}$ | Methamphetamine ${ }^{9}$ | Methamphetamine $\text { (Ice) }^{g}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 5,000 | 12.2 | 1.5 | 0.6 | 1.4 | 17.6 | 19.5 | 3.3 | 2.5 |
| Gender |  |  |  |  |  |  |  |  |  |
| Male | 2,000 | 15.4 | 2.2 | 0.6 | 2.2 | 19.6 | 21.9 | 4.2 | 2.5 |
| Female | 3,000 | 10.0 | 1.1 | 0.5 | 0.8 | 16.3 | 17.8 | 2.7 | 2.4 |
| Modal Age |  |  |  |  |  |  |  |  |  |
| 19-20 | 900 | 5.8 | 0.5 | * | 0.8 | 10.9 | 14.1 | 0.6 | 1.0 |
| 21-22 | 800 | 8.0 | 0.8 | 0.5 | 0.5 | 14.1 | 16.8 | 1.1 | 0.5 |
| 23-24 | 900 | 12.5 | 1.9 | 1.1 | 1.6 | 16.1 | 20.3 | 1.1 | 1.6 |
| 25-26 | 900 | 14.2 | 2.1 | 0.6 | 1.4 | 18.7 | 20.1 | 5.7 | 2.9 |
| 27-28 | 800 | 17.8 | 1.9 | 1.2 | 2.0 | 22.4 | 22.3 | 3.0 | 2.6 |
| 29-30 | 800 | 15.4 | 2.0 | 0.1 | 2.0 | 24.2 | 23.5 | 8.2 | 6.2 |
| Region |  |  |  |  |  |  |  |  |  |
| Northeast | 800 | 14.5 | 2.3 | 0.9 | 2.5 | 17.5 | 21.6 | 2.3 | 0.8 |
| Midwest | 1,100 | 11.3 | 1.1 | 0.1 | 0.8 | 16.3 | 18.8 | 2.0 | 2.0 |
| South | 1,700 | 10.9 | 1.6 | 0.7 | 1.3 | 17.5 | 19.5 | 3.8 | 2.6 |
| West | 1,200 | 13.4 | 1.6 | 0.8 | 1.4 | 19.0 | 19.1 | 5.1 | 4.3 |
| Population Density ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |
| Farm/Country | 500 | 8.4 | 1.8 | 0.5 | 1.6 | 17.2 | 16.2 | 4.7 | 3.9 |
| Small Town | 1,300 | 11.2 | 2.0 | 0.8 | 1.4 | 17.6 | 17.9 | 3.5 | 2.7 |
| Medium City | 1,300 | 10.7 | 1.3 | 0.4 | 1.5 | 16.7 | 19.0 | 2.4 | 1.6 |
| Large City | 1,100 | 12.3 | 1.1 | 0.6 | 1.4 | 17.1 | 18.8 | 3.7 | 2.5 |
| Very Large City | 700 | 19.5 | 1.7 | 0.6 | 1.0 | 19.9 | 26.7 | 2.7 | 2.3 |

(Table continued on next page.)

TABLE 4-2 (cont.)
Lifetime Prevalence of Use of Various Types of Drugs by Subgroups among Respondents of Modal Ages 19-30, 2014
(Entries are percentages.)

|  | Approximate Weighted N | Sedatives (Barbiturates) ${ }^{\mathrm{h}}$ | Tranquilizers ${ }^{\text {n }}$ | Alcohol | Been Drunk ${ }^{\text {b }}$ | Flavored <br> Alcoholic <br> Beverages ${ }^{\text {c }}$ | Cigarettes | Smokeless Tobacco ${ }^{\text {c }}$ | Steroids ${ }^{9}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 5,000 | 9.7 | 13.6 | 87.3 | 79.8 | 81.5 | - | 24.9 | 1.9 |
| Gender |  |  |  |  |  |  |  |  |  |
| Male | 2,000 | 10.0 | 14.4 | 86.5 | 80.1 | 78.6 | - | 38.4 | 3.4 |
| Female | 3,000 | 9.5 | 13.0 | 87.9 | 79.6 | 83.4 | - | 15.2 | 0.8 |
| Modal Age |  |  |  |  |  |  |  |  |  |
| 19-20 | 900 | 6.1 | 7.7 | 72.5 | 64.3 | 64.5 | - | 29.3 | 1.6 |
| 21-22 | 800 | 8.2 | 10.1 | 86.6 | 76.8 | 81.9 | - | * | 0.8 |
| 23-24 | 900 | 8.8 | 11.7 | 88.3 | 79.3 | 87.1 | - | 23.1 | 1.4 |
| 25-26 | 900 | 10.1 | 16.4 | 90.2 | 83.8 | 82.9 | - | 32.3 | 2.3 |
| 27-28 | 800 | 12.0 | 17.2 | 94.7 | 88.1 | 89.1 | - | 35.0 | 2.4 |
| 29-30 | 800 | 13.2 | 19.0 | 92.5 | 87.2 | 85.8 | - | 29.6 | 2.9 |
| Region |  |  |  |  |  |  |  |  |  |
| Northeast | 800 | 8.9 | 15.7 | 90.9 | 85.6 | 87.3 | - | 19.4 | 3.5 |
| Midwest | 1,100 | 8.2 | 11.5 | 89.3 | 85.2 | 83.7 | - | 31.7 | 1.4 |
| South | 1,700 | 10.5 | 14.9 | 86.8 | 75.5 | 78.4 | - | 27.5 | 1.8 |
| West | 1,200 | 10.5 | 12.0 | 83.8 | 74.5 | 78.9 | - | 16.7 | 1.1 |
| Population Density ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |
| Farm/Country | 500 | 8.4 | 14.0 | 85.9 | 76.5 | 85.8 | - | 26.1 | 0.9 |
| Small Town | 1,300 | 9.9 | 12.9 | 86.7 | 81.6 | 81.6 | - | 28.9 | 2.6 |
| Medium City | 1,300 | 8.4 | 12.6 | 85.1 | 79.4 | 76.7 | - | 24.3 | 1.7 |
| Large City | 1,100 | 10.0 | 12.5 | 89.0 | 79.3 | 82.5 | - | 21.0 | 1.6 |
| Very Large City | 700 | 12.6 | 18.4 | 91.6 | 81.6 | 89.7 | - | 23.5 | 1.9 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' - ' indicates data not available.
aUse of any illicit drug includes any use of marijuana, hallucinogens, cocaine, heroin or other narcotics, amphetamines, sedatives (barbiturates), or tranquilizers not under a doctor's orders.
${ }^{b}$ This drug was asked about in three of the six questionnaire forms. Total $N$ is approximately 2,500 .
${ }^{\circ}$ This drug was asked about in one of the six questionnaire forms. Total $N$ is approximately 800 .
${ }^{d}$ This drug was asked about in five of the six questionnaire forms. Total $N$ is approximately 4,200
${ }^{\mathrm{e}}$ A small town is defined as having fewer than 50,000 inhabitants; a medium city as $50,000-100,000$; a large city as $100,000-500,000$; and a very large city as having over 500,000
Within each level of population density, suburban and urban respondents are combined.
${ }^{\text {'Th }}$ This drug was asked about in four of the six questionnaire forms. Total $N$ is approximately 3,400
${ }^{9}$ This drug was asked about in two of the six questionnaire forms. Total $N$ is approximately 1,700
"Only drug use that was not under a doctor's orders is included here
Based on data from the revised question, which attempts to exclude the inappropriate reporting of nonprescription amphetamines

TABLE 4-3
Annual Prevalence of Use of Various Types of Drugs by Subgroups among Respondents of Modal Ages 19-30, 2014
(Entries are percentages.)

|  | Approximate Weighted N | Any <br> Illicit <br> Drug ${ }^{\text {a }}$ | Any Illicit Drug other than Marijuana ${ }^{\text {a }}$ | Marijuana | Synthetic <br> Marijuana ${ }^{\text {c }}$ | Inhalants ${ }^{\text {c }}$ | Hallucinogens ${ }^{\text {e }}$ |  | Hallucinogens ${ }^{e}$ other than LSD ${ }^{e}$ | $\mathrm{PCP}^{\mathrm{d}}$ | $\begin{aligned} & \text { Ecstasy } \\ & \text { (MDMA) }^{\text {c }} \\ & \hline \end{aligned}$ | Salvia ${ }^{\text {c }}$ | Cocaine | Crack ${ }^{\text {e }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 5,000 | 36.6 | 21.0 | 30.4 | 1.3 | 1.0 | 3.9 | 2.0 | 2.9 | 0.2 | 4.2 | 1.0 | 4.9 | 0.4 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 2,000 | 39.8 | 23.6 | 34.2 | 2.4 | 1.1 | 5.9 | 2.9 | 4.7 | 0.1 | 5.4 | 1.7 | 6.9 | 0.5 |
| Female | 3,000 | 34.4 | 19.2 | 27.8 | 0.6 | 0.9 | 2.4 | 1.3 | 1.7 | 0.2 | 3.4 | 0.6 | 3.6 | 0.4 |
| Modal Age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19-20 | 900 | 40.8 | 21.1 | 38.0 | 1.8 | 1.7 | 5.6 | 3.5 | 4.2 | * | 5.2 | 1.7 | 4.6 | 0.8 |
| 21-22 | 800 | 40.6 | 23.4 | 34.7 | 1.7 | 0.8 | 4.7 | 2.7 | 3.5 | * | 5.9 | 1.3 | 4.7 | 0.3 |
| 23-24 | 900 | 37.2 | 20.8 | 30.5 | 1.4 | 1.5 | 4.3 | 2.2 | 3.0 | 0.7 | 4.8 | 1.6 | 4.7 | 0.1 |
| 25-26 | 900 | 36.3 | 21.7 | 28.8 | 1.0 | 0.2 | 3.2 | 1.5 | 2.5 | * | 4.4 | 0.7 | 5.9 | 0.4 |
| 27-28 | 800 | 32.5 | 18.7 | 25.6 | 0.4 | 1.1 | 2.8 | 1.1 | 2.3 | * | 3.3 | 0.4 | 5.2 | 0.6 |
| 29-30 | 800 | 31.7 | 20.3 | 24.1 | 1.5 | 0.7 | 2.4 | 0.7 | 2.0 | 0.2 | 1.8 | 0.4 | 4.6 | 0.5 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 800 | 40.9 | 23.7 | 36.0 | 0.9 | 1.1 | 4.4 | 2.9 | 3.2 | * | 5.1 | 1.6 | 7.0 | 0.5 |
| Midwest | 1,100 | 34.9 | 20.0 | 27.6 | 0.9 | 0.9 | 2.7 | 1.2 | 2.0 | * | 2.9 | 0.3 | 3.4 | 0.5 |
| South | 1,700 | 33.8 | 20.7 | 26.8 | 1.7 | 0.7 | 3.9 | 2.1 | 2.8 | 0.1 | 3.7 | 0.6 | 4.1 | 0.5 |
| West | 1,200 | 38.3 | 20.7 | 33.1 | 1.2 | 1.3 | 4.3 | 1.7 | 3.6 | 0.5 | 5.8 | 1.9 | 6.1 | 0.4 |
| Population Density ${ }^{\text {j }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Farm/Country | 500 | 29.6 | 17.6 | 24.3 | 1.4 | 0.5 | 2.8 | 1.5 | 2.1 | * | 2.0 | 1.0 | 2.9 | 0.1 |
| Small Town | 1,300 | 33.0 | 19.4 | 27.8 | 1.4 | 1.1 | 3.1 | 2.1 | 2.2 | 0.4 | 3.4 | 1.2 | 4.2 | 0.9 |
| Medium City | 1,300 | 36.4 | 20.7 | 29.4 | 1.3 | 0.7 | 3.8 | 1.8 | 2.9 | 0.2 | 3.8 | 1.0 | 4.6 | 0.4 |
| Large City | 1,100 | 38.7 | 21.4 | 32.4 | 1.3 | 1.1 | 4.0 | 1.8 | 3.2 | * | 4.5 | 0.9 | 5.4 | 0.3 |
| Very Large City | 700 | 45.6 | 26.4 | 38.2 | 0.7 | 1.4 | 5.7 | 2.6 | 4.3 | * | 7.8 | 1.2 | 7.5 | 0.2 |

(Table continued on next page.)

TABLE 4-3 (cont.)
Annual Prevalence of Use of Various Types of Drugs by Subgroups among Respondents of Modal Ages 19-30, 2014
(Entries are percentages.)

|  | Approximate Weighted $N$ | Other Cocaine ${ }^{f}$ | Heroin | Heroin with a Needle ${ }^{\text {b }}$ | Heroin without a Needle ${ }^{\text {b }}$ | Narcotics other than Heroin ${ }^{g}$ | OxyContin ${ }^{\text {c,g }}$ | Vicodin ${ }^{\text {c,g }}$ | Amphetamines ${ }^{\text {g,h }}$ | Ritalin ${ }^{\text {g,h }}$ | Adderall ${ }^{\text {c,g }}$ | Methamphetamine ${ }^{\text {b }}$ | Crystal <br> Methamphetamine $(\text { Ice })^{b}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 5,000 | 4.7 | 0.4 | 0.2 | 0.3 | 6.3 | 2.6 | 5.2 | 7.6 | 1.7 | 7.4 | 0.7 | 0.4 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 2,000 | 6.3 | 0.4 | 0.2 | 0.5 | 7.4 | 3.0 | 7.0 | 8.8 | 1.9 | 8.8 | 0.8 | 0.3 |
| Female | 3,000 | 3.6 | 0.3 | 0.2 | 0.2 | 5.5 | 2.3 | 3.9 | 6.8 | 1.5 | 6.5 | 0.6 | 0.4 |
| Modal Age |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19-20 | 900 | 4.0 | 0.2 | * | 0.5 | 5.3 | 2.9 | 4.2 | 9.9 | 1.9 | 9.5 | 0.3 | 0.3 |
| 21-22 | 800 | 4.4 | 0.3 | 0.2 | 0.1 | 6.5 | 1.4 | 4.0 | 9.6 | 2.1 | 8.0 | 0.5 | 0.3 |
| 23-24 | 900 | 5.0 | 0.4 | 0.5 | 0.5 | 5.9 | 2.7 | 4.4 | 6.9 | 1.0 | 7.5 | 0.5 | 0.3 |
| 25-26 | 900 | 5.1 | 0.7 | 0.3 | 0.3 | 7.6 | 3.3 | 6.4 | 7.7 | 1.4 | 8.0 | 0.9 | 0.3 |
| 27-28 | 800 | 5.6 | 0.4 | 0.2 | 0.2 | 6.2 | 2.2 | 5.2 | 5.9 | 1.6 | 6.0 | 0.5 | 0.2 |
| 29-30 | 800 | 4.0 | 0.2 | * | 0.3 | 6.1 | 3.2 | 7.0 | 5.3 | 1.9 | 5.2 | 1.3 | 0.7 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 800 | 6.2 | 0.6 | 0.3 | 0.7 | 6.8 | 2.8 | 5.0 | 9.1 | 1.9 | 9.3 | 1.0 | 0.3 |
| Midwest | 1,100 | 3.6 | 0.3 | * | 0.2 | 6.1 | 2.2 | 5.7 | 8.3 | 1.7 | 9.1 | 0.2 | 0.1 |
| South | 1,700 | 3.9 | 0.4 | 0.2 | 0.2 | 6.5 | 2.8 | 3.7 | 6.7 | 1.3 | 5.8 | 0.4 | 0.3 |
| West | 1,200 | 5.6 | 0.4 | 0.3 | 0.4 | 5.8 | 2.3 | 6.8 | 7.6 | 1.7 | 6.0 | 1.3 | 1.0 |
| Population Density ${ }^{\text {j }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Farm/Country | 500 | 2.0 | 0.3 | 0.3 | * | 6.8 | 2.5 | 5.7 | 5.2 | 2.2 | 4.9 | 1.3 | 0.4 |
| Small Town | 1,300 | 4.1 | 0.5 | 0.1 | 0.4 | 6.2 | 3.4 | 5.3 | 7.5 | 2.2 | 7.0 | 0.7 | 0.3 |
| Medium City | 1,300 | 4.3 | 0.3 | 0.1 | 0.6 | 6.8 | 2.5 | 4.1 | 7.6 | 1.3 | 6.9 | 0.3 | 0.1 |
| Large City | 1,100 | 5.1 | 0.4 | 0.3 | 0.2 | 5.7 | 2.2 | 5.3 | 7.9 | 1.2 | 8.4 | 0.9 | 0.6 |
| Very Large City | 700 | 7.5 | 0.3 | 0.2 | * | 5.7 | 2.4 | 6.2 | 9.2 | 1.8 | 9.7 | 0.6 | 0.6 |

(Table continued on next page.)

TABLE 4-3 (cont.)

## Annual Prevalence of Use of Various Types of Drugs by Subgroups among Respondents of Modal Ages 19-30, 2014

|  | (Entries are percentages.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Approximate Weighted $N$ | Bath Salts (synthetic stimulants) ${ }^{\text {c }}$ | Sedatives (Barbiturates) ${ }^{9}$ | Tranquilizers ${ }^{9}$ | GHB ${ }^{\text {b }}$ | Ketamine ${ }^{\text {b }}$ | Alcohol | Been Drunk ${ }^{\text {c }}$ | Flavored <br> Alcoholic <br> Beverages ${ }^{\text {d }}$ | Alcoholic <br> Beverages containing Caffeine ${ }^{\text {b }}$ | Cigarettes | Tobacco using a Hookah ${ }^{\text {c }}$ | Small Cigars ${ }^{\text {b }}$ | Dissolvable Tobacco ${ }^{\text {b }}$ | Snus ${ }^{\text {b }}$ | Steroids ${ }^{9}$ |
| Total | 5,000 | 0.4 | 3.2 | 4.9 | 0.4 | 0.6 | 83.0 | 63.6 | 53.5 | 33.9 | 26.9 | 21.0 | 17.4 | 0.6 | 4.8 | 0.6 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 2,000 | 0.7 | 2.9 | 4.8 | 0.8 | 1.1 | 83.1 | 66.3 | 53.0 | 41.2 | 31.1 | 23.9 | 28.7 | 1.6 | 9.7 | 1.1 |
| Female | 3,000 | 0.3 | 3.4 | 5.0 | 0.2 | 0.3 | 82.9 | 61.8 | 53.8 | 29.1 | 24.1 | 19.1 | 9.8 | * | 1.5 | 0.3 |
| Modal Age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19-20 | 900 | 0.4 | 3.4 | 5.0 | 0.5 | 0.1 | 67.3 | 54.2 | 51.6 | 29.4 | 26.0 | 33.4 | 24.3 | 1.4 | 6.7 | 0.9 |
| 21-22 | 800 | 0.5 | 3.9 | 3.8 | 0.2 | 0.1 | 84.0 | 65.7 | 71.4 | 39.1 | 28.6 | 29.4 | 21.5 | 0.3 | 5.3 | 0.5 |
| 23-24 | 900 | 0.7 | 3.1 | 3.8 | 0.5 | 1.7 | 85.3 | 65.8 | 61.0 | 39.2 | 28.6 | 20.6 | 14.9 | 0.4 | 4.2 | 0.3 |
| 25-26 | 900 | 0.5 | 2.8 | 6.0 | 0.4 | 0.4 | 85.5 | 64.8 | 48.9 | 34.7 | 25.1 | 18.1 | 13.4 | 0.2 | 2.9 | 1.2 |
| 27-28 | 800 | 0.1 | 2.6 | 5.1 | * | * | 90.2 | 67.5 | 44.2 | 32.9 | 26.5 | 13.8 | 16.7 | * | 4.8 | 0.5 |
| 29-30 | 800 | 0.3 | 3.5 | 5.7 | 1.1 | 1.4 | 86.4 | 63.9 | 44.3 | 28.2 | 26.6 | 9.8 | 12.9 | 1.5 | 4.7 | 0.3 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 800 | 0.8 | 2.8 | 6.1 | 0.5 | 1.2 | 88.8 | 72.8 | 56.6 | 32.6 | 28.3 | 21.7 | 20.2 | 1.6 | 6.0 | 1.3 |
| Midwest | 1,100 | 0.4 | 2.8 | 4.6 | 0.2 | 0.3 | 86.6 | 71.3 | 59.7 | 43.6 | 28.9 | 22.5 | 21.6 | 0.4 | 7.3 | 0.2 |
| South | 1,700 | 0.3 | 3.3 | 5.2 | 0.4 | 0.7 | 80.7 | 53.3 | 49.7 | 27.2 | 26.7 | 18.2 | 13.3 | 0.5 | 3.3 | 0.9 |
| West | 1,200 | 0.2 | 3.7 | 3.9 | 0.3 | * | 78.9 | 60.5 | 49.3 | 32.7 | 24.5 | 22.4 | 15.3 | * | 2.5 | 0.1 |
| Population Density ${ }^{\text {j }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Farm/Country | 500 | 0.6 | 3.5 | 5.2 | 0.4 | 0.8 | 78.8 | 54.2 | 65.1 | 32.1 | 28.5 | 12.0 | 12.8 | 1.1 | 8.0 | 0.5 |
| Small Town | 1,300 | 0.5 | 3.1 | 4.9 | 0.6 | 0.7 | 82.4 | 62.4 | 51.0 | 30.2 | 29.8 | 17.5 | 17.0 | 0.7 | 5.6 | 0.9 |
| Medium City | 1,300 | 0.4 | 2.5 | 4.9 | 0.3 | 0.5 | 81.2 | 64.3 | 52.8 | 33.9 | 24.3 | 23.9 | 18.3 | 0.9 | 3.6 | 0.9 |
| Large City | 1,100 | 0.4 | 3.6 | 4.3 | 0.1 | 0.2 | 84.3 | 65.3 | 52.6 | 38.2 | 25.0 | 23.3 | 16.3 | 0.1 | 2.7 | 0.2 |
| Very Large City | 700 | 0.2 | 4.4 | 6.0 | 0.6 | 0.7 | 89.0 | 69.0 | 52.3 | 35.4 | 28.6 | 26.0 | 21.3 | 0.2 | 5.5 | 0.5 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' $*$ ' indicates a prevalence rate of less than $0.05 \%$.
${ }^{\text {a }}$ Use of any illicit drug includes any use of marijuana, hallucinogens, cocaine, heroin or other narcotics, amphetamines, sedatives (barbiturates), or tranquilizers not under a doctor's orders.
${ }^{5}$ This drug was asked about in two of the six questionnaire forms. Total $N$ is approximately 1,700 .
${ }^{\text {c }}$ This drug was asked about in three of the six questionnaire forms. Total $N$ is approximately 2,500 .
${ }^{\mathrm{t}}$ This drug was asked about in one of the six questionnaire forms. Total $N$ is approximately 800.
${ }^{\text {e }}$ This drug was asked about in five of the six questionnaire forms. Total $N$ is approximately 4,200 .
This drug was asked about in four of the six questionnaire forms. Total $N$ is approximately 3,400
'Only drug use that was not under a doctor's orders is included here.
'Based on data from the revised question, which attempts to exclude the inappropriate reporting of nonprescription amphetamines
A small town is defined as having fewer than 50,000 inhabitants; a medium city as $50,000-100,000$; a large city as $100,000-500,000$; and a very large city as having over 500,000 .
Within each level of population density, suburban and urban respondents are combined.

TABLE 4-4
Thirty-Day Prevalence of Use of Various Types of Drugs by Subgroups among Respondents of Modal Ages 19-30, 2014
(Entries are percentages.)

|  | Any Illicit Drug ${ }^{\text {a }}$ |  |  |  | Hallucinogens |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Approximate Weighted $N$ | Any Illicit Drug ${ }^{\text {a }}$ | other than <br> Marijuana | Marijuana | Synthetic <br> Marijuana ${ }^{\text {c }}$ | Inhalants ${ }^{\text {b }}$ | Hallucinogens ${ }^{\text {d }}$ | LSD ${ }^{\text {d }}$ | other than $\operatorname{LSD}^{d}$ | PCP ${ }^{\text {c }}$ | $\begin{gathered} \text { Ecstasy } \\ \text { (MDMA) }^{\text {b }} \end{gathered}$ | Cocaine | Crack ${ }^{\text {d }}$ |
| Total | 5,000 | 21.4 | 9.8 | 18.3 | 0.3 | 0.2 | 0.8 | 0.3 | 0.6 | 0.2 | 4.2 | 1.7 | 0.1 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 2,000 | 24.4 | 11.4 | 21.6 | 0.6 | 0.2 | 1.1 | 0.3 | 1.0 | 0.1 | 5.4 | 2.7 | 0.1 |
| Female | 3,000 | 19.4 | 8.7 | 16.0 | 0.2 | 0.3 | 0.6 | 0.4 | 0.3 | 0.2 | 3.4 | 1.0 | 0.1 |
| Modal Age |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19-20 | 900 | 25.2 | 11.4 | 24.3 | 0.6 | 0.6 | 1.4 | 0.7 | 0.9 | * | 5.2 | 2.1 | 0.2 |
| 21-22 | 800 | 23.3 | 10.6 | 21.2 | 0.8 | 0.1 | 1.3 | 0.6 | 0.9 | * | 5.9 | 1.5 | * |
| 23-24 | 900 | 21.6 | 9.5 | 17.8 | * | 0.2 | 0.7 | 0.2 | 0.5 | 0.7 | 4.8 | 1.6 | 0.1 |
| 25-26 | 900 | 22.9 | 10.2 | 17.4 | 0.7 | 0.1 | 0.6 | 0.3 | 0.3 | * | 4.4 | 1.6 | * |
| 27-28 | 800 | 18.2 | 7.9 | 15.1 | * | 0.4 | 0.6 | 0.1 | 0.5 | * | 3.3 | 2.0 | 0.3 |
| 29-30 | 800 | 16.9 | 8.9 | 13.2 | * | * | 0.5 | * | 0.5 | 0.2 | 1.8 | 1.4 | 0.1 |
| Region |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 800 | 26.7 | 12.0 | 23.3 | 0.7 | 0.2 | 1.3 | 0.5 | 0.8 | * | 5.1 | 3.1 | 0.3 |
| Midwest | 1,100 | 18.3 | 8.2 | 15.1 | * | 0.3 | 0.4 | 0.2 | 0.2 | * | 2.9 | 1.0 | * |
| South | 1,700 | 18.9 | 9.7 | 15.4 | 0.3 | 0.1 | 0.9 | 0.2 | 0.7 | 0.1 | 3.7 | 1.0 | 0.1 |
| West | 1,200 | 23.8 | 9.8 | 21.3 | * | 0.4 | 0.8 | 0.4 | 0.4 | 0.5 | 5.8 | 2.5 | 0.1 |
| Population Density ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Farm/Country | 500 | 18.9 | 9.0 | 14.5 | 0.9 | 0.5 | 0.4 | 0.2 | 0.4 | * | 2.0 | 0.9 | 0.1 |
| Small Town | 1,300 | 18.9 | 8.0 | 17.4 | * | 0.1 | 0.8 | 0.4 | 0.4 | 0.4 | 3.4 | 1.2 | 0.2 |
| Medium City | 1,300 | 21.0 | 10.0 | 17.1 | 0.4 | 0.1 | 1.0 | 0.4 | 0.7 | 0.2 | 3.8 | 1.7 | 0.1 |
| Large City | 1,100 | 22.7 | 9.8 | 19.7 | 0.6 | 0.5 | 0.6 | 0.1 | 0.5 | * | 4.5 | 1.9 | 0.1 |
| Very Large City | 700 | 26.8 | 13.1 | 22.3 | * | 0.1 | 1.3 | 0.3 | 1.0 | * | 7.8 | 2.8 | * |

(Table continued on next page.)

TABLE 4-4 (cont.)
Thirty-Day Prevalence of Use of Various Types of Drugs by Subgroups among Respondents of Modal Ages 19-30, 2014
(Entries are percentages.)

|  | Approximate Weighted N | Other Cocaine ${ }^{f}$ | Heroin | Heroin <br> With Needle ${ }^{g}$ | Heroin <br> Without Needle ${ }^{g}$ | Narcotics other than Heroin ${ }^{h}$ | Amphetamines ${ }^{\text {h,i }}$ | Methamphetamine ${ }^{\text {g }}$ | Crystal <br> Methamphetamine $(\text { Ice })^{g}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 5,000 | 1.7 | 0.2 | 0.1 | 0.1 | 2.1 | 3.3 | 0.4 | 0.1 |
| Gender |  |  |  |  |  |  |  |  |  |
| Male | 2,000 | 2.7 | 0.2 | 0.1 | 0.1 | 2.3 | 4.1 | 0.6 | 0.1 |
| Female | 3,000 | 1.0 | 0.1 | 0.1 | 0.1 | 2.0 | 2.7 | 0.3 | 0.1 |
| Modal Age |  |  |  |  |  |  |  |  |  |
| 19-20 | 900 | 1.8 | * | * | * | 1.9 | 5.5 | 0.3 | 0.3 |
| 21-22 | 800 | 1.6 | 0.1 | 0.2 | * | 1.6 | 3.9 | 0.5 | * |
| 23-24 | 900 | 1.7 | 0.2 | 0.2 | 0.3 | 2.3 | 3.3 | * | * |
| 25-26 | 900 | 1.3 | 0.3 | 0.2 | 0.2 | 2.7 | 3.0 | 0.5 | * |
| 27-28 | 800 | 2.6 | 0.3 | 0.2 | * | 2.2 | 1.9 | 0.4 | * |
| 29-30 | 800 | 1.2 | 0.1 | * | 0.1 | 2.0 | 1.8 | 0.7 | 0.5 |
| Region |  |  |  |  |  |  |  |  |  |
| Northeast | 800 | 2.6 | 0.5 | 0.2 | 0.5 | 2.0 | 3.4 | 0.9 | 0.3 |
| Midwest | 1,100 | 1.2 | * | * | * | 2.0 | 3.6 | 0.2 | 0.1 |
| South | 1,700 | 1.1 | 0.1 | 0.1 | 0.1 | 2.3 | 3.0 | 0.2 | * |
| West | 1,200 | 2.4 | 0.2 | 0.3 | * | 2.0 | 3.4 | 0.5 | 0.2 |
| Population Density ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |
| Farm/Country | 500 | 0.5 | 0.2 | * | * | 3.3 | 2.5 | 1.1 | * |
| Small Town | 1,300 | 1.5 | 0.2 | 0.1 | 0.2 | 1.9 | 2.9 | 0.4 | 0.1 |
| Medium City | 1,300 | 1.4 | 0.2 | 0.1 | 0.2 | 2.4 | 3.5 | 0.2 | * |
| Large City | 1,100 | 2.1 | 0.1 | 0.1 | * | 1.6 | 3.4 | 0.1 | 0.1 |
| Very Large City | 700 | 2.8 | 0.2 | 0.2 | * | 1.7 | 4.0 | 0.6 | 0.6 |

(Table continued on next page.)

TABLE 4-4 (cont.)
Thirty-Day Prevalence of Use of Various Types of Drugs by Subgroups among Respondents of Modal Ages 19-30, 2014
(Entries are percentages.)

|  | Approximate Weighted N | Sedatives <br> (Barbiturates) ${ }^{\mathrm{h}}$ | Tranquilizers ${ }^{\text {h }}$ | Alcohol | $\begin{gathered} \text { Been } \\ \text { Drunk }^{\text {b }} \end{gathered}$ | Flavored <br> Alcoholic Beverages ${ }^{\text {c }}$ | Cigarettes | E-Cigarettes ${ }^{\text {c }}$ | Large Cigars ${ }^{\text {c }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 5,000 | 1.0 | 1.9 | 69.1 | 38.5 | 25.8 | 17.7 | 9.3 | 6.3 |
| Gender |  |  |  |  |  |  |  |  |  |
| Male | 2,000 | 0.9 | 1.9 | 72.5 | 42.8 | 26.0 | 20.9 | 12.0 | 12.0 |
| Female | 3,000 | 1.2 | 2.0 | 66.8 | 35.5 | 25.6 | 15.5 | 7.5 | 2.4 |
| Modal Age |  |  |  |  |  |  |  |  |  |
| 19-20 | 900 | 0.8 | 1.3 | 50.1 | 35.0 | 26.5 | 15.8 | 13.8 | 9.3 |
| 21-22 | 800 | 1.2 | 2.0 | 71.1 | 44.4 | 40.4 | 18.9 | 7.9 | 4.0 |
| 23-24 | 900 | 1.1 | 1.8 | 71.0 | 39.5 | 28.9 | 18.3 | 9.4 | 8.5 |
| 25-26 | 900 | 1.1 | 2.3 | 73.2 | 36.1 | 20.4 | 16.3 | 9.8 | 6.9 |
| 27-28 | 800 | 0.8 | 2.2 | 77.3 | 41.7 | 18.4 | 18.1 | 5.7 | 2.5 |
| 29-30 | 800 | 1.2 | 2.0 | 73.2 | 34.2 | 20.3 | 19.0 | 8.3 | 5.4 |
| Region |  |  |  |  |  |  |  |  |  |
| Northeast | 800 | 0.8 | 2.8 | 75.1 | 47.1 | 22.9 | 18.2 | 8.4 | 7.1 |
| Midwest | 1,100 | 0.9 | 1.2 | 73.1 | 44.7 | 28.5 | 19.1 | 9.4 | 6.0 |
| South | 1,700 | 1.0 | 2.1 | 66.2 | 28.7 | 25.4 | 18.7 | 7.3 | 5.1 |
| West | 1,200 | 1.4 | 1.5 | 64.7 | 37.1 | 26.0 | 14.8 | 13.0 | 7.2 |
| Population Density ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |
| Farm/Country | 500 | 1.7 | 1.5 | 57.2 | 31.7 | 33.3 | 20.9 | 13.2 | 8.4 |
| Small Town | 1,300 | 0.7 | 1.8 | 65.9 | 33.3 | 26.5 | 20.4 | 8.7 | 3.5 |
| Medium City | 1,300 | 0.9 | 1.9 | 69.4 | 39.7 | 25.0 | 16.0 | 6.9 | 6.2 |
| Large City | 1,100 | 1.2 | 1.5 | 73.2 | 41.2 | 24.3 | 15.9 | 8.6 | 8.5 |
| Very Large City | 700 | 1.5 | 3.0 | 77.2 | 47.0 | 23.2 | 16.5 | 14.2 | 6.0 |

(Table continued on next page.)

TABLE 4-4 (cont.)
Thirty-Day Prevalence of Use of Various Types of Drugs by Subgroups among Respondents of Modal Ages 19-30, 2014
(Entries are percentages.)

|  | Approximate <br> Weighted N | Flavored Little <br> Cigars $^{c}$ | Regular Little <br> Cigars $^{c}$ | Smokeless <br> Tobacco $^{c}$ | Steroids $^{\text {g }}$ |
| :--- | :---: | :---: | :---: | :---: | :---: |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' ' ' indicates a prevalence rate of less than $0.05 \%$.
${ }^{\text {a }}$ Use of any illicit drug includes any use of marijuana, hallucinogens, cocaine, heroin or other narcotics, amphetamines, sedatives (barbiturates), or tranquilizers not under a doctor's orders.
${ }^{b}$ This drug was asked about in three of the six questionnaire forms. Total $N$ is approximately 2,500 .
${ }^{\text {c }}$ This drug was asked about in one of the six questionnaire forms. Total $N$ is approximately 800.
${ }^{d}$ This drug was asked about in five of the six questionnaire forms. Total $N$ is approximately 4,200.
${ }^{e}$ A small town is defined as having fewer than 50,000 inhabitants; a medium city as $50,000-100,000$; a large city as $100,000-500,000$; and a very large city as having over 500,000 . Within each level of population density, suburban and urban respondents are combined.
${ }^{\mathrm{f}}$ This drug was asked about in four of the six questionnaire forms. Total $N$ is approximately 3,400.
${ }^{9}$ This drug was asked about in two of the six questionnaire forms. Total $N$ is approximately 1,700 .
"Only drug use that was not under a doctor's orders is included here.
${ }^{\text {i }}$ Based on data from the revised question, which attempts to exclude the inappropriate reporting of nonprescription amphetamines.

## TABLE 4-5

 Thirty-Day Prevalence of Daily Use ${ }^{\text {a }}$ of Various Types of Drugs by Subgroupsamong Respondents of Modal Ages 19-30, 2014
(Entries are percentages.)

|  | Approximate <br> Weighted N | Marijuana Daily | Alcohol Daily | Alcohol: 5+ Drinks in a Row in Last 2 Weeks | Cigarettes Daily | Cigarettes: <br> 1/2 Pack+ per Day | Smokeless <br> Tobacco ${ }^{\text {c }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 5,000 | 6.7 | 5.4 | 33.1 | 11.2 | 6.8 | 2.5 |
| Gender |  |  |  |  |  |  |  |
| Male | 2,000 | 9.0 | 7.4 | 42.9 | 12.3 | 7.6 | 5.6 |
| Female | 3,000 | 5.2 | 4.1 | 26.4 | 10.4 | 6.3 | 0.3 |
| Modal Age: |  |  |  |  |  |  |  |
| 19-20 | 900 | 7.9 | 2.9 | 28.2 | 8.1 | 4.3 | 3.6 |
| 21-22 | 800 | 7.7 | 5.6 | 38.4 | 10.8 | 6.4 | 0.0 |
| 23-24 | 900 | 6.8 | 5.2 | 33.6 | 11.1 | 7.1 | 0.0 |
| 25-26 | 900 | 6.1 | 5.7 | 32.2 | 11.6 | 7.5 | 2.9 |
| 27-28 | 800 | 6.1 | 5.8 | 35.5 | 12.1 | 7.5 | 3.7 |
| 29-30 | 800 | 5.7 | 7.6 | 31.0 | 13.5 | 8.0 | 4.7 |
| Region |  |  |  |  |  |  |  |
| Northeast | 800 | 7.5 | 4.8 | 39.3 | 10.9 | 7.2 | 1.9 |
| Midwest | 1,100 | 4.6 | 6.3 | 40.9 | 11.5 | 7.2 | 2.0 |
| South | 1,700 | 6.5 | 4.4 | 28.0 | 13.2 | 8.2 | 4.1 |
| West | 1,200 | 8.1 | 6.0 | 29.5 | 8.6 | 4.5 | 0.6 |
| Population Density ${ }^{\text {b }}$ |  |  |  |  |  |  |  |
| Farm/Country | 500 | 5.1 | 4.8 | 29.1 | 17.1 | 11.2 | 3.2 |
| Small Town | 1,300 | 6.7 | 4.5 | 30.0 | 14.6 | 9.1 | 3.6 |
| Medium City | 1,300 | 6.0 | 5.9 | 32.9 | 9.3 | 5.3 | 1.2 |
| Large City | 1,100 | 7.1 | 5.7 | 35.4 | 8.4 | 5.3 | 1.8 |
| Very Large City | 700 | 8.5 | 6.6 | 38.6 | 8.6 | 4.4 | 1.4 |

Source. The Monitoring the Future study, the University of Michigan.
${ }^{\text {a }}$ Daily use is defined as use on 20 or more occasions in the past 30 days except for cigarettes, measured as actual daily use,
and 5+ drinks, measured as having five or more drinks in a row in the last two weeks.
${ }^{\mathrm{b}}$ A small town is defined as having fewer than 50,000 inhabitants; a medium city as $50,000-100,000$; a large city as 100,000-500,000;
and a very large city as having over 500,000 . Within each level of population density, suburban and urban respondents are combined.
${ }^{\text {c }}$ This drug was asked about in one of the six questionnaire forms. Total $N$ is approximately 800

FIGURE 4-1
ANY ILLICIT DRUG ${ }^{\text {a }}$
Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55
by Age Group, 2014


Source. The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion.
Due to rounding, some bars with the same number may have uneven height.
${ }^{\text {a }}$ The questions on hallucinogen use are not included in the age 55 questionnaire. Therefore, the data presented here include hallucinogens for ages 18 to 50, but not for age 55 .

FIGURE 4-2
ANY ILLICIT DRUG OTHER THAN MARIJUANA ${ }^{\text {a }}$
Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55
by Age Group, 2014


Source. The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion. Due to rounding, some bars with the same number may have uneven height.
${ }^{\text {a }}$ The questions on hallucinogen use are not included in the age 55 questionnaire. Therefore, the data presented here include hallucinogens for ages 18 to 50, but not for age 55 .

FIGURE 4-3
MARIJUANA

## Lifetime, Annual, 30-Day, and Daily Prevalence among Respondents of Modal Ages 18 through 55

by Age Group, 2014


Source.
The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion. Due to rounding some bars with the same number may have uneven height.

FIGURE 4-4
AMPHETAMINES

## Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55 <br> by Age Group, 2014



Source.
Notes.

The Monitoring the Future study, the University of Michigan.
Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion.
Due to rounding, some bars with the same number may have uneven height.

FIGURE 4-5
METHAMPHETAMINE

## Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through $30{ }^{\text {a }}$ by Age Group, 2014



Source. The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion. Due to rounding, some bars with the same number may have uneven height.
${ }^{\text {a }}$ Questions about the use of methamphetamines were not included in the questionnaires for $35-$, 40-, 45-, and 50-year-olds.

FIGURE 4-6
CRYSTAL METHAMPHETAMINE (ICE)
Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through $30{ }^{\text {a }}$ by Age Group, 2014


Source. The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion. Due to rounding, some bars with the same number may have uneven height.
${ }^{\text {a }}$ Questions about the use of crystal methamphetamine were not included in the questionnaires for $35-, 40-$, 45-, and 50 -year-olds.

FIGURE 4-7

## COCAINE

## Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55 <br> by Age Group, 2014



Source.
The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion. Due to rounding some bars with the same number may have uneven height.

FIGURE 4-8
CRACK COCAINE
Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55
by Age Group, 2014


Source. The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion. Due to rounding, some bars with the same number may have uneven height.

FIGURE 4-9
OTHER COCAINE
Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55
by Age Group, 2014


Source.
Notes.

The Monitoring the Future study, the University of Michigan.
Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion.
Due to rounding, some bars with the same number may have uneven height.

FIGURE 4-10
HALLUCINOGENS ${ }^{\text {a }}$
Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 50 ${ }^{\text {b }}$ by Age Group, 2014


Source. The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion. Due to rounding, some bars with the same number may have uneven height.
${ }^{\text {a }}$ Unadjusted for the possible underreporting of PCP.
${ }^{\mathrm{b}}$ Questions about the use of hallucinogens were not included in the questionnaires for 55-year-olds.

FIGURE 4-11
LSD
Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through $30{ }^{\text {a }}$ by Age Group, 2014


Source. The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion. Due to rounding, some bars with the same number may have uneven height.
${ }^{\text {a }}$ Questions about the use of LSD were not included in the questionnaires for $35-, 40-, 45$-, and 50 -year-olds.

FIGURE 4-12
HALLUCINOGENS OTHER THAN LSD ${ }^{\text {a }}$
Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through $30{ }^{\text {b }}$ by Age Group, 2014


Source
The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion. Due to rounding, some bars with the same number may have uneven height.
${ }^{\text {a }}$ Unadjusted for the possible underreporting of PCP.
${ }^{\text {b }}$ Questions about the use of hallucinogens other than LSD were not included in the questionnaires for $35-$, 40-, 45-, and 50 -year-olds.

FIGURE 4-13
INHALANTS ${ }^{\text {a }}$
Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through $30{ }^{\text {b }}$ by Age Group, 2014


Source. The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion. Due to rounding some, bars with the same number may have uneven height.
${ }^{\text {a }}$ Unadjusted for the possible underreporting of amyl and butyl nitrites.
${ }^{\text {b }}$ Questions about the use of inhalants were not included in the questionnaires for $35-$, 40-, $45-$, and 50 -year-olds.

FIGURE 4-14
SEDATIVES (BARBITURATES)
Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55
by Age Group, 2014


Source.
The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion.
Due to rounding, some bars with the same number may have uneven height.

FIGURE 4-15
NARCOTICS OTHER THAN HEROIN
Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55
by Age Group, 2014


Source. The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion.
Due to rounding, some bars with the same number may have uneven height.

FIGURE 4-16
TRANQUILIZERS

> Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55
> by Age Group, 2014


Source.
The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion.
Due to rounding, some bars with the same number may have uneven height.

FIGURE 4-17
ECSTASY (MDMA)

## Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through $30^{\text {a }}$ by Age Group, 2014



Source. The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion. Due to rounding, some bars with the same number may have uneven height.
${ }^{\text {a }}$ Questions about the use of ecstasy were not included in the questionnaires for $35-$ - 40 -, 45-, and 50 -year-olds.

FIGURE 4-18

## STEROIDS

## Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through $30{ }^{\text {a }}$ by Age Group, 2014



Source The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion. Due to rounding, some bars with the same number may have uneven height.
${ }^{a}$ Questions about the use of steroids were not included in the questionnaires for 35-, 40-, 45-, and 50-year-olds.

FIGURE 4-19
HEROIN

## Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55 <br> by Age Group, 2014



Source. The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion. Due to rounding, some bars with the same number may have uneven height.

FIGURE 4-20a
ALCOHOL
Lifetime, Annual, and 30-Day Prevalence among Respondents of Modal Ages 18 through 55
by Age Group, 2014


Source. The Monitoring the Future study, the University of Michigan.
Notes. Lifetime prevalence estimates were adjusted for inconsistency in self-reports of drug use over time. See text for discussion.
Due to rounding, some bars with the same number may have uneven height.

FIGURE 4-20b
ALCOHOL
2-Week Prevalence of 5 or More Drinks in a Row and
30-Day Prevalence of Daily Use among Respondents of Modal Ages 18 through 55
by Age Group, 2014


Source.
The Monitoring the Future study, the University of Michigan.
Notes. Due to rounding some bars with the same number may have uneven height.

FIGURE 4-21

## CIGARETTES

Annual, 30-Day, Daily, and Half-Pack-a-Day Prevalence among Respondents of Modal Ages 18 through 55
by Age Group, 2014


Source.
The Monitoring the Future study, the University of Michigan.
Notes. Due to rounding, some bars with the same number may have uneven height.

## Chapter 5

## TRENDS IN DRUG USE IN EARLY AND MIDDLE ADULTHOOD

In this chapter, we examine historical trends through 2014 in substance use for various age bands covering early and middle adulthood, ages 19 through 55. We use MTF panel data from graduating high school seniors spanning more than three and a half decades. Although panel data are typically used to study stability and change in the same individuals over time, we use the data here cross-sectionally to consider how substance use has varied across the years by age group, much as we use the repeated cross-sectional surveys of secondary school students to track changes in behaviors over time for particular grade levels (8, 10, and 12) in Volume I. In the early 1990s, we began to document large and important increases among secondary school students in the use of several substances, particularly marijuana and cigarettes. The increases continued among $12^{\text {th }}$ graders through 1997, as discussed in Volume I. One of the important issues addressed in this chapter is whether such increases occurred only among adolescents or whether those higher-using graduating classes have carried their higher levels of drug use with them as they moved into young adulthood. In other words, are they exhibiting lasting differences across class cohorts or cohort effects. These would be indicated by the inflection points in the cross-time trends (turning either up or down) coming sequentially across the age strata with a time lag between adjacent strata.

Figures 5-1 through 5-19c present separate trend lines for two-year age strata, that is, respondents who are one to two years beyond high school, three to four years beyond high school, and so on. These two-year age strata are used to reduce the random fluctuations that would be seen with one-year strata. ${ }^{1}$ Each data point through age 32 in these figures is based on approximately 900 weighted cases drawn from two adjacent high school classes; actual (unweighted) numbers of cases are somewhat higher than those shown in the tables. ${ }^{2}$ Figures 5-1 through $5-19$ c also present trend data from respondents at modal ages $35,40,45,50$, and 55 based on follow-up data collected at those ages. Beginning at age 35, the age strata are constituted in a slightly different way, in that the two half-samples from a single graduating class (which up through age 30 had been surveyed in alternating years) are now both surveyed in the same year. ${ }^{3}$ Modal age 55 was first added to the survey in 2013, so no trend results were reported until 2014; thus the present volume includes trends from that age band for the first time. The

[^39]figures also include trend data for 18-year-olds for comparison purposes. The page following the figure for each drug contains a table of values for each point in the trend lines separately for the various age strata.

Tables 5-1 through 5-5 are derived from the same data but presented in tabular form for 19- to 28 -year-olds combined. Data are given for each year in which they are available for that full age band (i.e., from 1986 onward). Respondents ages 29 and over are omitted from the tables because their inclusion would shorten the time period over which trends can be examined. However, the full data for those respondents are contained in Figures 5-1 through 5-19c.

## RECENT TRENDS IN DRUG USE AMONG YOUNG ADULTS AGES 19-28

In 2014 the primary changes from the previous year in substance use among young adults ages 19 to 28 combined (shown in Tables 5-1 through 5-4) are as follows:

- The percent of young adults ages 19 to 28 indicating use of any illicit drug in the prior 12 months continued to increase-up by a nonsignificant 0.9 percentage points to reach $37.5 \%$ This is up from a recent low of $32.1 \%$ in 2006. Much of this increase has been due to the increases in marijuana use, though that was not the case in 2014.
- Marijuana use showed a statistically significant rise in annual prevalence to $32.2 \%$ in 2013-an increase of 2.0 percentage points from 2012. This was up from $27.7 \%$ in 2006-the most recent low point. However, in 2014 there was a nonsignificant drop of 0.6 percentage points to $31.6 \%$. Whether this drop reflects a ceasing of the recent increase in marijuana use is a matter on which we will have more to say . after 2015 data collections.
- Daily marijuana use rose in 2014 ( 0.7 percentage points, a non-significant increase over 2013) to reach $6.9 \%$, which is triple the rate in 1992 (2.3\%), the low point since estimates for this age group first became available in 1986. The 2014 rate is the highest level of daily use ever observed in this young adult population .since tracking of their use began twenty-nine years ago.
- Synthetic marijuana continued to decline in 2014-down significantly by 1.9 percentage points to $1.3 \%$. This is down appreciably from the $7.4 \%$ prevalence observed in 2011, when use of this drug was first measured, and it parallels a sharp decline in synthetic marijuana use among secondary school students.
- Any illicit drug other than marijuana showed a significant increase in 2014, rising from $18.1 \%$ in 2013 to $21.2 \%$ in 2014. This measure had been relatively stable from 2003 to 2013, at between $17 \%$ and $19 \%$.One reason for this increase was a significant increase in 2014 in the use of cocaine powder from 3.7\% in 2013 to $4.8 \%$ in 2014.Adderall continued a longer-term increase in 2014 with $7.8 \%$ of young adults saying that they had used it in the previous 12 months without medical supervision. This reflected a nonsignificant 0.9 percentage point increase in 2014. Ritalin use, on the other hand, has
remained fairly stable since 2009, following a period of decline, and stands at $1.6 \%$ annual prevalence in 2014.
- Vicodin use by young adults changed significantly in 2014, this time with a significant 1.3 percentage-point drop to $4.8 \%$ annual prevalence. Vicodin has been in a fairly steady decline since about 2005, when annual prevalence was $9.3 \%$. The more general class of which it is a part, narcotics other than heroin, also has been declining since a recent peak level of use was reached in 2008; it continued to decline in 2014 with a nonsignificant drop of $0.7 \%$, reaching $6.3 \%$. This is an important class of substances, accounting for many overdose deaths, so the fact that use is now in decline among young adults is a very favorable development for the nation's health. ${ }^{4}$ Most other illicit drugs showed only minor changes in 2014 (Table 5-2).
- There were no changes in the various measures of alcohol use that reached statistical significance, although most of these measures showed some modest increase in 2014 (following a modest decline in 2013). The important exception is binge drinkinghaving five or more drinks on one or more occasions in the prior two weeks. The gradual decline in this measure since about 2008 (when $37.9 \%$ of young adults indicated such use), continued into 2014, with a non-significant decline of 1.6 percentage points, reaching $33.5 \%$. This decline among young adults follows a similar decline among high school seniors.
- Cigarette smoking among young adults showed some significant changes in 2014. Thirty-day prevalence declined by a significant 2.6 percentage points to $17.5 \%$, while daily smoking declined by a significant 1.4 percentage points, reaching 10.7\%\% in 2014. Half-pack-a-day smoking by young adults declined by a nonsignificant 0.4 percentage points to $6.6 \%$. On all three measures of smoking, the 2014 levels are at historic lows, and they follow appreciable declines to historic lows among high school seniors. (See Figures 5-19a, b, and c.).


## LONGER-TERM TRENDS IN EARLY AND MIDDLE ADULTHOOD

The trend results are as follows:

- Longer-term declines among young adults in the annual prevalence of several drugs appeared to end in 1992 or 1993 (Table 5-2). Among the 19- to 28 -year-old young adult sample, this was true for the use of any illicit drug, marijuana, any illicit drug other than marijuana, hallucinogens, narcotics other than heroin, crack, amphetamines, sedatives (barbiturates), and tranquilizers. In 1994, annual prevalence for most drugs remained steady. Cocaine other than crack reached its low point in 1994 after a period of substantial decline that began in the late 1980s. In 1995 there again were modest

[^40]increases (a percentage point or less) in the annual prevalence of almost all of the drug classes in Table 5-2, some of which were statistically significant.

Thus, it was clear that by 1992 or 1993 the downward secular trend (i.e., period effect) running back to the 1980s and observable in all of these age strata (as well as among adolescents) had ended. What has happened since then, however, is more of a cohort effect, reflecting an interaction between age and period such that only adolescents showed an increase in illicit drug use initially, and then they carried those new (higher) levels of drug use with them as they entered older age bands. Figure 5-1 shows the effects of generational replacement as the teens of the early 1990s reached their 20s. While all age groups generally moved in parallel through about 1992, the youngest age bands first showed signs of increase in their overall level of illicit drug use. The 18-year-olds shifted up first, followed by the 19- to 20-year-olds in 1994, the 21- to 22-year-olds in 1996, the 23 - to 26 -year-olds in 1999, the 29 - to 30 -year-olds in 2004 , and the 35 -year-olds in 2008. So far, the 40 -, $45-$, 50 -and 55 year-olds have not shown much increase. (In fact, the $8^{\text {th }}$ graders, who are not included in these graphs, but are described in Volume I, actually began an increase in use a year earlier than the $12^{\text {th }}$ graders, showing that the cohort effect was already underway before use turned upward among $12^{\text {th }}$ graders.)

Then, from 2007 to 2013, use among $12^{\text {th }}$ graders and several of the youngest young adult age bands increased, and a number of the older age bands followed suit in subsequent years, once again suggesting a cohort effect (see Figure 5-1).

To summarize, in the earlier decline phase of the drug epidemic, annual prevalence of use of any illicit drug moved in parallel for all age strata, as illustrated in Figure 5-1; this pattern reflects a secular trend, because a similar change is observed simultaneously across different age levels. After 1992-in what we have called the "relapse phase" of the popular drug epidemic that began in the 1960 s-a quite different pattern emerged: $8^{\text {th }}$ graders increased their drug use first, followed by $10^{\text {th }}$ and $12^{\text {th }}$ graders; then the nextoldest age group increased use, but with a little delay; the next-oldest then increased use, but with a longer delay; and the oldest three groups (40-, 45- and 50-year-olds) are not yet showing an increase. This pattern reflects a classic cohort effect, in which different age groups are not all moving in parallel; rather, different age groups show increases when the cohorts (i.e., high school classes) having heavier use at an earlier stage in development reach the relevant age level. In addition, note that the slopes of the age bands are successively less steep in the older age groups, suggesting that some of the cohort effect may be dissipating with maturation. But we think it unlikely that only cohort effects are occurring (in addition to the long-established age effects); period effects also likely play a role.

- Use of marijuana shows an almost identical pattern to the illicit drug use index-not surprising given the fact that marijuana, by far the most prevalent of the illicit drugs, tends to drive the index (Figure 5-3a). After a long and steady decline from the late 1970s to the early 1990s, annual marijuana use leveled for a while among young adults before beginning a gradual increase. Virtually all of this increase was attributable to the two youngest age bands (18 and 19 to 20) until 1996, when the 21- to 22-year-olds began to show a rise. The older age bands then tended to show increases fairly sequentially, with

29- to 30 - and 35 -year-olds showing significant increases in 2008. The 18-year-olds’ use of marijuana in the prior 12 months declined after 1997 and, later, several of the succeeding age bands through age 26 began to show declines in a pattern that again suggests lasting cohort differences. Since about 2006, however, use has been rising not only among the 18 -year-olds, but also among all age bands through about 35 years old, thus indicating a secular trend. This strongly suggests an impact on use by culture-wide events to which all of the age bands are exposed and by which they .all were affected during this historical period.

- A similar pattern emerged for current daily marijuana use (Figure 5-3c). In the mid- to late 1990s, daily marijuana use among 35 - and 40 -year-olds was as high as or higher than use among some younger age groups, suggesting a lasting cohort effect on this behavior, because the cohorts comprising those older age strata grew up in a period of particularly high adolescent marijuana use. However, in more recent years, the 35-, 40-, 45-, 50-, and $55-$ year-olds were similar to respondents ages 27 to 30 , who had among the lowest levels of daily use. An important finding shown in Figure 5-3c is that, although the various age groups had been moving in parallel for many years at fairly similar levels of prevalence, the trends diverged considerably in the 1990s in a staggered fashion, such that the 18 - to 30 -year-olds came to have distinctly higher levels of daily marijuana use (around $6 \%$ to $8 \%$ in 2014) than the older age groups (around $2 \%$ to $5 \%$ ), again reflecting stable cohort differences. In 2010 the upturn in daily marijuana use that had been occurring at younger ages (best seen in the table accompanying Figure 5-3c) reached the age-35 stratum, with a significant increase from their 2009 prevalence rate. All age groups from age 19 through age 35 showed higher levels of daily use in 2014 than in 2010, reaching levels well above those observed in the early to mid-1990s (Figure 5-3c and associated table).
- The index of using any illicit drug other than marijuana has shown a similar transition in the pattern of change. Period effects seemed to predominate until about 1992, but a cohort-related pattern of change emerged thereafter (Figure 5-2). And, while the rise in annual use leveled by 1997 among 18-year-olds, it began rising in 1999 among 19- to 20-year-olds, in 2000 among 21- to 22-year-olds, in 2002 among 23- to 24-year-olds, in 2005 among 29- to 30 -year-olds, and so on. The primary difference from the picture for marijuana is that the increases were not as sharp in the 1990s for most of the age groups. (Compare Figure 5-2 with Figure 5-1 to see the difference.) Since about 2008 the levels of use of any illicit drug other than marijuana in nearly all age groups have remained fairly steady with two exceptions: prevalence among $12^{\text {th }}$ graders declined gradually and modestly from 2001 to 2009 before leveling, and use among 21- to 22-year-olds increased some in 2013 and held in 2014. Again, all age groups from ages 19 through 35 showed some increase in 2014.
- A question about synthetic marijuana was added to the questionnaires for young adults in 2011 (Table 5-2). Annual prevalence was 7.4\% that year among the 19- to 28-yearolds but dropped continually and significantly to $5.0 \%$ in 2012, to $3.2 \%$ in 2013 , and in 2014 to $1.3 \%$, reflecting a decline of more than four fifths in just three years.
- With regard to inhalants, the large separation of trend lines for the younger age groups in Figure 5-4 shows that, across many cohorts, use has dropped consistently and sharply
with age, particularly in the first few years after high school. In fact, of all the populations covered by MTF, the $8^{\text {th }}$ graders (not shown in Figure 5-4) have had the highest rate of use, indicating that the decline in use with age starts at least as early as $8^{\text {th }}$ or $9^{\text {th }}$ grade. Like cocaine, inhalants have shown a strong age effect, but unlike cocaine, use of inhalants declines rather than increases with age and the age effect has sustained throughout the life of the study.

Figure 5-4 also shows that, until the mid-1990s, there was a long-term gradual increase in annual inhalant use (unadjusted for underreporting of nitrite inhalants), one which was greatest among $12^{\text {th }}$ graders, next greatest among 19- to 20 -year-olds, and next greatest among 21- to 22-year-olds. Respondents more than six years past high school, who historically have had a negligible rate of use, did not exhibit the increases in use seen among the younger respondents, which began at least as early as 1977 among $12^{\text {th }}$ graders and in 1983 among 19- to 20-year-olds. There was some subsequent increase among 21to 22 -year-olds and, later still, an increase among 23- to 24 -year-olds. After 1995, this long-term trend, reflecting a cohort effect, began to reverse in the two youngest age strata (coincident with an anti-inhalant media campaign by the Partnership for a Drug-Free America) as well as among several other age strata, suggesting a period effect due to some culture-wide influence, such as a media campaign. Subsequently, further declines among several age strata are suggestive of a cohort effect. The older age strata have generally shown very low rates of inhalant use throughout the course of the study.

- In the 1980s and 1990s, LSD use also increased among those in their teens and early 20s much more than among the older strata, as Figure 5-6 illustrates. Over the interval 1985 to 1996, there was a gradual but considerable increase in annual LSD use among respondents ages 18 to 24 , which was sharpest among $12^{\text {th }}$ graders and 19- to 20-yearolds. The increase did not seem to radiate up the age spectrum beyond age 26. A turnaround began among $12^{\text {th }}$ graders after 1995 and then among the older age groups in a somewhat staggered fashion, again indicative of a cohort effect. Declines in the years since then have been greatest among 18 - to 24 -year-olds, who had attained the highest rates of LSD use. Use declined considerably from 2001 to 2003 in all age bands (including $8^{\text {th }}$ and $10^{\text {th }}$ graders), and then leveled through 2007 at historically low rates, suggesting that an important secular trend may have set in, which was quite possibly related to decreased availability of the drug. Since 2007 there has been evidence of a very gradual increase in use, particularly among those ages 18 to 26 .
- The use of hallucinogens other than $\operatorname{LSD}$ showed a similar and fairly parallel decline in use among all age bands through the 1980s, indicating a secular trend (Figure 5-7). During the relapse phase for many drugs during the 1990s, there was a substantial increase in use among the younger age bands, but not among those ages 27 or older. The increases in the older age bands did not appear for some time, indicating a cohort effect at work. Since about 2003, the prevalence of use of hallucinogens other than LSD has gradually declined among those ages 24 or younger, while use in the older age bands has continued to climb gradually.
- The annual prevalence for ecstasy (MDMA) use among those aged 19 to 28 was at about 1.5\% in 1989 and 1990 (Table 5-2 and Figure 5-8). After 1991 it dropped to around 0.8\%
for several years before rising significantly in 1995. Ecstasy use then rose in all of the young adult age strata, most notably in the younger age bands (19 through 26) through 2001. Use among $12^{\text {th }}$ graders, which was not measured until 1996, was by then the highest of any of the age groups at $4.6 \%$ annual prevalence. Twelfth graders’ use declined by a full percentage point through 1998 before jumping significantly-by two full percentage points-in 1999. (Use by $10^{\text {th }}$ graders also jumped significantly in 1999.) Thus it appears that young people from their mid-teens to mid-20s discovered ecstasy after some years of low and relatively level use. In 2000 the sharp increase in use continued among ages 15 to 16 ( $10^{\text {th }}$ graders) through age 26 -with highs of over $10 \%$ among 19- to 22 -year-olds—and also showed up among $8^{\text {th }}$ graders for the first time. By 2001 the increase had slowed and even begun to reverse among those ages 18 to 26 , even as the 31- to 32 -year-olds showed their first appreciable increase in ecstasy use. We attributed the deceleration in 2001 to a fairly sharp increase in perceived risk of ecstasy use in that year, and based on that, we predicted a turnaround in use in 2002. In 2002, and again in 2003, perceived risk increased sharply and, as Figure 5-8 illustrates, all age bands showed a reversal with a sharp decrease in use. Clearly, the decrease has been sharpest in the younger age bands, perhaps because a cohort effect is at work in the upper ages, helping to offset a downward secular trend. Since about 2005 there has been some increase in ecstasy use in all age bands through age 30 (older respondents are not asked about this drug), and the increase has been staggered, suggesting that a cohort effect is underway. In 2014 annual ecstasy (MDMA) prevalence stood at 5\% to 6\% for 19- to 24-year-olds and between 1.8 and $4.4 \%$ for those 25 to 30 (Table 4-3).
- Several drug classes exhibited a faster decline in use among the older age groups than among $12^{\text {th }}$ graders during the earlier period of decline in the 1980s (see Figures 5-1 through 5-19c). These included any illicit drug, any illicit drug other than marijuana, amphetamines, hallucinogens (until 1987), LSD (through 1989), and methaqualone, but not marijuana.
- In fact, a crossover is evident for some drugs when $12^{\text {th }}$ graders are compared to young adults. In earlier years $12^{\text {th }}$ graders had lower usage levels, but for some years after 1993 they tended to have higher levels than post-high school respondents for use of any illicit drug, marijuana, hallucinogens, LSD specifically, crack cocaine, tranquilizers, and crystal methamphetamine (ice).
- Cocaine (Figure 5-9) gives quite a dramatic picture of change. Unlike most other drugs, active use of cocaine has generally tended to rise with age after high school, usually peaking three to four years past graduation from the mid-1970s through the mid-1990s. This was a classic example of an age effect. Despite the large age differences in absolute prevalence during that period, all age strata moved in a fairly parallel way through 1991, indicating that a secular trend was taking place in addition to the age effect. All age strata began a sharp and sustained decline in use after 1986-again reflecting a period effect. The two youngest strata ( $12^{\text {th }}$ graders and 19- to 20 -year-olds) leveled by 1992, whereas use continued a decelerating decline for a few years beyond that in the older age groups, signaling the continuation of a cohort effect that began earlier. From 1994 to 1999, annual prevalence of cocaine use rose some in the five youngest strata (i.e., those younger than 27) on a somewhat staggered basis, with the three older groups still
decreasing a bit more over that same period. This, to some degree, reversed the age differences that were so prominent in the 1970s and 1980s.

Cohort-related change appears to have predominated in the 1990s, quite possibly as the result of "generational forgetting" of the cocaine-related casualties so evident in the early to mid-1980s. In other words, those in the older cohorts retained that learning experience, but those in the newer cohorts never had it. The fact that from 1994 to 1996 the 35-yearolds had higher lifetime prevalence levels of cocaine use than some of the younger age groups also suggests some lasting cohort-related differences established during the peak years of the cocaine epidemic. From about 2005 or 2006 through 2013 there was a gradual decline in cocaine use in all age bands, but particularly among the younger ages who had earlier attained higher prevalence levels. In 2014, however, there was a significant increase in cocaine use among young adults ages 19 to 30 combined, but not among 18 -year olds nor among those older than 30 . (See Figure $5-9$.) This is the first evidence we have seen of a resurgence in cocaine use since the relapse that started in the early 1990s.

Crack use was added to the $12^{\text {th }}$ graders' questionnaires in 1986 and to the follow-up questionnaires in 1987. The decline in annual crack use, which began right after the introduction of these questions, ended in 1991 among $12^{\text {th }}$ graders, and by 1994 it had ended among young adults (Figure 5-10 and Table 5-2). Among 19- to 28-year-olds, the annual prevalence rate held at about $1 \%$, which was down from the peak levels of just over $3 \%$ in 1986 through 1988. As was true for a number of other drugs, crack use began to rise after 1993 among $12^{\text {th }}$ graders, at the beginning of the relapse phase in the epidemic, but not in the older age strata until years later, when increases were observed in a somewhat staggered pattern going up the age scale. Again, a cohort effect due to generational replacement seems to have been occurring. Since 1994, 18-year-olds have had the highest-reported rates of use, though they have shown considerable decline since 1999. After another significant decline of 0.4 percentage points in 2011, the $1.0 \%$ annual prevalence in 2011 was the lowest since crack use was first measured at $4.1 \%$ in 1986; it stood unchanged at $1.1 \%$ in 2014. In 2014 use among young adults was at $0.4 \%$.

- A tripwire question asking about use of salvia in the past 12 months has been included in the study since 2009. Annual use of salvia has declined steadily among the 19- to 28-year-olds from 3.5\% in 2009 to $0.9 \%$ in 2013 and 1.2\% in 2014 (Table 5-2).
- Use of heroin increased appreciably in 1995 among $12^{\text {th }}$ graders and young adults ages 19 to 24, but not among the older age bands (Figure 5-11). It remained at this higher plateau in these younger age bands through 2000 or 2001, before falling off some, particularly among $12^{\text {th }}$ graders. Among young adults, generally, annual use had previously been quite stable from at least as far back as 1986 through 1994 (Table 5-2), and it stabilized again at a higher level after 1994-a level roughly twice as high as the previous one. Use among $12^{\text {th }}$ graders has declined since 2000, among 19- to 20-yearolds since 2001, and among the 21 to 22-year-olds since 2006, but it remains fairly stable (at a very low rate of use) among the older age groups.
- Among 19- to 28-year-olds, use of narcotics other than heroin leveled after 1991, following a long period of slow, fairly steady decline (Figure 5-12 and Table 5-2). After 1992 twelfth graders showed an appreciable increase in use, which continued into 2004, while 19- to 20-year-olds showed some increase after 1994, 21- to 22-year-olds after 1996, 23- to 24-year-olds after 1997, and the older age groups after 2000. Thus, cohortrelated change appears to have been occurring during the 1990s and beyond for this class of drugs as well, following a long period of secular trends. In 2002, the question text was changed on three of the six questionnaire forms to update the list of examples of narcotic drugs other than heroin. Talwin, laudanum, and paregoric, each of which had negligible rates of use by 2001, were replaced by Vicodin, OxyContin, and Percocet. As a consequence of this revision, reported use rates increased in 2002. Data presented here for 2002 are from three of the six questionnaire forms with the new wording (which showed higher prevalence rates than the older question did). All six questionnaire forms contained the new wording beginning in 2003, so the data presented for 2003 onward are based on all forms. Although the older version of the question showed no significant changes occurring in 2002, there was a significant increase in narcotics use observed in 2003 (based on the new question in both 2002 and 2003). Among 19- to 28 -year-olds, annual prevalence reached a peak level of $9.1 \%$ in 2006; it has since fallen to $6.3 \%$ in 2014. Some turnaround was observed among 19- to 22-year-olds after 2004 in the use of this important class of drugs, but use continued to rise in some of the older age bands through 2007 to 2009, likely reflecting a cohort effect. Use of these drugs outside of medical supervision remains relatively high in all age groups studied here, with rates of around $6-7 \%$ among those ages 18 to 30, also about $6 \%$ among those age 35 , and $3.0 \%$ to $4.2 \%$ among those ages 40 to 55 . The most important finding is that use of this important class of drugs has either leveled or declined in recent years in all of the age groups covered in the study.
- The annual prevalence rates for Vicodin and OxyContin, which were first measured in 2002 (separately from the general question about narcotics other than heroin), were appreciable ( $8.2 \%$ and $1.9 \%$, respectively) for 19 - to 28 -year-olds. Increases were observed for these two drugs in subsequent years. Among 19- to 28-year-olds (Table 52), the annual prevalence of OxyContin use rose from $1.9 \%$ in 2002 to $3.1 \%$ in 2004 through 2006-changes that were fairly parallel to those observed among $12^{\text {th }}$ graders over the same interval (when their slightly higher annual prevalence rose from $4.0 \%$ in 2002 to $5.5 \%$ in 2005). The increases in OxyContin use between 2002 and 2005 were significant for both $12^{\text {th }}$ graders and 19 - to 28 -year-olds. Annual prevalence was stable from 2004 to 2007 at about $3 \%$ for young adults, increased to $5.2 \%$ in 2009, but was down to $2.5 \%$ in 2014. Vicodin use rose by less, but started from a higher base, with annual prevalence increasing slightly among 19- to 28-year-olds, from $8.2 \%$ in 2002 to $8.9 \%$ in 2004; it remained at about $9 \%$ through 2009, followed by a decline to $4.8 \%$ by 2014. Thus, since 2009 the annual prevalence of both OxyContin and Vicodin among young adults has declined by about half. Given the widespread concern about these narcotic drugs, which are among those most cited in overdose deaths, this downturn is very good news.
- In the late 1970s, amphetamine use rose some with age beyond high school, but after a long period of secular decline in use from 1981 to the early 1990s, this relationship had
reversed (see Figure 5-13). The declines were greatest in the older strata and least among $12^{\text {th }}$ graders, even though use decreased substantially in all groups. As was true for many illicit drugs, amphetamine use began to rise among $12^{\text {th }}$ graders after 1992, and eventually among the 19 - to 24 -year-olds; but there was only a small increase among 25to 30 -year-old respondents. In other words, another cohort-related pattern of change was beginning to emerge in the 1990s for amphetamines, and the increase in use has really only developed since 2006 among the 25- to 30 -year-olds as can be seen in Figure 5-13. While amphetamine use declined a fair amount among $12^{\text {th }}$ graders between 2002 and 2009 (from $11.1 \%$ to $6.6 \%$ ), there was less proportional decline among 18 - to 20 -yearolds and really no decline among the 21- to 55-year-old age strata. After 2009 there was some resurgence in use, particularly among the younger age groups in $12^{\text {th }}$ grade and college age. It may well be that the use of amphetamines for studying was what cased this resurgence. Use has now leveled or begun to decline in those younger ages, but there is some increase observable among the 25- to 30 -year-olds-quite possibly as a result of another cohort effect. Among those strata ages 35 and older there has been little change in use for more than a decade. At present the age differences in amphetamine use through age 55 are of considerable magnitude and mostly ordinal with 18- to 22-year-olds showing the highest and mostly undifferentiated rates of use and those over 30 much lower rates. (See the table accompanying Figure 5-13.)
- Since 1990, when it was first measured, use of crystal methamphetamine (ice) has remained at fairly low rates in the young adult population (Figure 5-14). However, among 19- to 28-year-olds combined, annual prevalence rose from $0.4 \%$ in 1992 to $1.6 \%$ by 2005 , before falling back to $0.3 \%$ in 2014 (Table 5-2). Use had been rising among $12^{\text {th }}$ graders and 19- to 20-year-olds specifically between 2000 and 2002, reaching peak levels, but since then their use has declined to low levels. Among those in their twenties-use is not asked of those over age 30-reported use generally declines with age. General methamphetamine use was first measured in 1999, and its use until 2005 was stable among 19- to 28-year-olds, with annual prevalence fluctuating between $2.4 \%$ and $2.8 \%$. Use has declined since to $0.5 \%$ by 2014 (Table 5-2).
- Sedative (barbiturate) use (Figure 5-15) outside of medical supervision showed a longterm parallel decline in all age groups covered through the late 1970s and 1980s, leveling by about 1988. While use remained low and quite level for most of the age bands for about five years, it began to rise by 1993 among 18-year-olds, by 1995 among 19- to 20-year-olds, by 1997 among 21- to 22-year-olds, by 1998 among 23- to 24-year-olds, by 2001 among 25- to 28 -year-olds, and by 2005 among 29- to 30 -year-olds. The same cohort-related pattern of change seen during the 1990s for many other drugs also exists for sedatives (barbiturates); like most other drugs, this pattern was preceded by a long period of secular change during which all age-groups moved in parallel. While use leveled off among most age groups by 2005, the 35-, 40-, and 45-year-olds all showed increases in sedative (barbiturate) use between 2006 and 2008. However, their usage rates leveled after 2008. In 2014 the annual usage rates for the 35 - to 55 -year-olds were about $2 \%$ to $4 \%$. Sedative use among 18-year-olds declined steadily after 2005, among 19- to 20 -year-olds after 2008, and among 21- to 22-year-olds after 2009, suggesting another cohort effect. After 2011 the usage rates in most age strata leveled off or even reversed slightly.
- Tranquilizers (Figure 5-16) follow a similar pattern to that just described for sedatives (barbiturates). One difference is that the $12^{\text {th }}$ graders' annual prevalence rate has not always been the highest among the various age groups, as was the case for sedatives (barbiturates), although it was highest between 1994 and 2000 as a result of a greater increase in tranquilizer use among the $12^{\text {th }}$ graders than in the young adult strata. Since about 2004, however, as use rose and then leveled among those in their early 20 s , the $12^{\text {th }}$ graders no longer stand out as having the highest rate of tranquilizer use. In fact, the 21to 22-year-olds or 23- to 24-year-olds had the highest rate in 2005 through 2009; in 2011, the 25 - to 26 -year-olds had the highest rate; and in 2012 the 27 - to 28 -year-olds had the highest rate of use. Use then increased among the 29- to 30-year-olds, though they have not yet reached the highest rate. This was another clear example of a cohort-related pattern of change. Now that tranquilizer use has leveled and begun to decline among $12^{\text {th }}$ graders and 19- to 24 -year-olds, it is likely that we will see this pattern echoed in the older age groups as a new cohort effect plays out.
- Use of anabolic steroids has been substantially lower after high school than during $12^{\text {th }}$ grade (Figure 5-17), ever since measures were first introduced in 1991 (in two follow-up questionnaire forms). The age-related differences are not consistent; prevalence rates among the young adult strata are all quite low and do not appear to trend in any systematic way. In general, it seems that the rise in steroid use from 1999 to 2003 among $8^{\text {th }}$ and $10^{\text {th }}$ graders and from 2001 to 2004 among $12^{\text {th }}$ graders was largely specific to those age groups. Annual prevalence rates are now very low for respondents in all young adult strata of ages 19 and older (ranging from $0.3 \%$ to $0.9 \%$ ).
- Alcohol trends for the older age groups (see Figures 5-18a-d) have been somewhat different than for the younger age groups in some interesting ways. For annual and 30day prevalence and occasions of heavy drinking, the declines for the two youngest age strata ( $12^{\text {th }}$ graders and those one to two years past high school) during the 1980 s were greater than for the older age groups. These differential trends were due in part to the effects of changes in minimum drinking age laws in many states-changes that would be expected to affect primarily the age groups under age 21. However, because similar (though weaker) trends were evident among $12^{\text {th }}$ graders in states that maintained a constant minimum drinking age of 21 , the changed laws cannot account for all the downward trends, suggesting that there was also a more general downward trend in alcohol consumption during the 1980s. ${ }^{5}$ By 1994, the declines in 30-day prevalence had slowed or discontinued for virtually all age groups until 1997, when they began to turn downward again for $12^{\text {th }}$ graders, and 1999, when they began to decline among 19- to 20-year-olds. The long term declines in the 30-day prevalence of alcohol use have been very substantial-from $72 \%$ in 1980 to $37 \%$ in 2014 among 18-year-olds, and from $77 \%$ in 1981 to $50 \%$ in 2014 among 19- to 20-year-olds. Since about 1997, as the declines continued in the under-21 groups (that is, those under the minimum legal drinking age), no such declines occurred among the 21 and older groups; in fact, there have been some

[^41]modest increases in all these groups. These trends have resulted in substantial differences in 30 -day drinking rates between those 18 to 20 years of age ( $37 \%$ to $50 \%$ ) versus those 21 and over ( $64 \%$ to $77 \%$ ) -much larger differences than we first looked at them in the 1980s.

- Those respondents three to four years past high school show the smallest downward trend in occasions of heavy drinking or binge drinking (i.e., having five or more drinks in a row at least once in the past two weeks) since the early 1980s (see Figure 5-18d). One important segment of that age stratum is composed of college students who have shown less decline in alcohol use over the past quarter century (see Chapter 9). In 2014 the binge drinking rate for 19- to 20-year-olds (who are, of course, under the legal age for alcohol possession and, in many states, consumption) is considerably lower (28\%) than for those just one to two years older (38\%).

The older age groups generally showed no recent decline in binge drinking rates. Note that the binge drinking trend lines for different age groups (Figure 5-18d) are spread out on the vertical dimension, reflecting large and persisting age differentials (age effects) in this behavior. The relationship with age is curvilinear, however. In recent years the 21- to 24 -year-olds have consistently shown the highest rates of binge drinking, and the $25-$ to 26-year-olds have just about joined them after some years of increasing use going back to the mid-1990s. Binge drinking also had been gradually increasing since the early 2000s among 25- to 30 -year-olds, perhaps reflecting a cohort effect that emerged during the period of increasing adolescent binge drinking in the early 1990s. Among 18-year-olds binge drinking has declined considerably since the mid-1990s, and they now have relatively low rates (as do the oldest age groups).

From the early 1980s through the mid-1990s, rates of daily drinking (Figure 5-18c) fell by considerable proportions in all age strata for which we have data, reflecting a secular trend and an important change in drinking patterns in the culture. Among 19- to 28-yearolds combined, daily drinking declined from 1987 (6.6\%) to 2000 (4.1\%), and has increased a little to $5.0 \%$ by 2014 (Table 5-4). Daily drinking rates rise considerably with age now, and generally been highest for the 40 and older groups in recent years; daily drinking has declined substantially among 18-year-olds and 19- to 20-year-olds over the life of the study. Despite these declines for young adults up through age 20, daily drinking among 21- to 22 -year-olds (which also declined from the early 1980s through the mid-1990s) has increased some since 1995. In 2014 there was a considerable difference among the age strata in rates of daily drinking, ranging from $2 \%$ among 18-year-olds to $10 \%$ among 50 - and 55 -year-olds.

It is worth noting that the 35-, 40-, 45-, 50-, and 55-year-olds have had among the lowest rates of binge drinking but among the highest rates of daily drinking in recent years for which we have data available. These patterns-particularly the high rate of daily drinking-likely reflect age effects as well as perhaps some enduring cohort differences (because these cohorts had considerably higher rates of daily drinking when they were in high school). They may also have been influenced by the widely disseminated medical
findings that suggest that one or two drinks per day for males and one per day for females have some benefits for heart health. ${ }^{6,7}$ That may be a more salient message for those who are in their forties or above than for younger people. Whether there really are such health effects has been questioned since. ${ }^{8}$ The prevalence rates for cigarette smoking show more complex trends than most other substances, due to the long-term presence of both cohort and age effects, plus slightly different patterns of such effects on the several different measures of smoking during the past 30 days (one or more cigarettes per month, one or more cigarettes per day, and a half pack or more of cigarettes per day).

In the earlier years of MTF, the curves across time were of the same general shape for each age band (Figures 5-19a-c), but each of those curves tended to be displaced to the right of the immediately preceding age group, which was two years younger. The pattern is clearest in Figure 5-19c (half pack plus per day) during the late 1970s and 1980s. This pattern is very similar to the one described in Volume I for lifetime smoking rates for various grade levels below senior year; it is the classic pattern exhibited by a cohort effect, ${ }^{9}$ and we believe that the persisting cohort differences are due to the dependenceproducing characteristics of cigarette smoking.

The declining levels of cigarette smoking observed in the $12^{\text {th }}$ grade classes of 1978 through 1981, were later observable in the early-30s age band, as those same high school graduating classes grew older (see Figures $5-19 b$ and $c$ ). This was true at least through about 1991. By then there had been a considerable convergence of rates across age groups, largely because there were few cohort differences among the senior classes who graduated from the early to mid-1980s through the early 1990s-a period of fairly level cigarette use in high school.

In addition to these cohort differences, there are somewhat different age trends in which, as respondents grow older, the proportion smoking at all in the past 30 days declines some, while the proportion smoking a half pack per day actually increases. Put another way, many of the light smokers in high school either transition to heavier smoking or quit smoking. ${ }^{10^{-12}}$

[^42]The picture was further complicated in the 1990s when it appears that a new cohort effect emerged, with smoking among adolescents rising sharply (beginning after 1991 for $8^{\text {th }}$ and $10^{\text {th }}$ graders and after 1992 for $12^{\text {th }}$ graders). The $19-$ to 20 -year-olds soon showed a rise at the beginning of the 1990s-perhaps responding to some of the same social forces as the adolescents (including the Joe Camel advertising campaign); but 21- to 24-yearolds did not show an increase until about 1995, and 25- to 26-year-olds until about 1996. Those young adults over age 26 showed a modest increase from 1997 through 2004, but a decline in use since then; it is quite possible that an upward cohort effect was at least partially offset by a downward secular trend during this period.

After about 1999, smoking rates among nearly all age groups leveled or declined, suggesting that societal forces may be affecting all age groups in a similar way, giving rise to a secular trend. Large increases in the price of cigarettes (due at least in part to sales tax increases, ${ }^{13}$ and later federal excise taxes) and a great deal of adverse publicity for the tobacco industry are highly plausible candidates, as are the introduction of the national anti-smoking campaign of the American Legacy Foundation, an increase in state and national anti-smoking advertising, the demise of the Joe Camel campaign and all billboard advertising, and the imposition of no-smoking regulations in many public and workplace settings by states and municipalities. Since 2003, thirty-day, daily, and halfpack smoking have all declined among 35-, 40-, and 45-year-olds (Figures 5-19a through 5-19c).

- Apart from cigarettes, none of the other drugs included in the study showed a clear longterm pattern of enduring cohort differences in the earlier years of MTF (the 1970s and 1980s), despite wide variations in their use by different cohorts at a given age. There was one exception; a modest cohort effect was observable for daily marijuana use (Figure 53c) during the late 1970s and early 1980s. ${ }^{14}$ But as subsequent classes leveled at lower rates of use, evidence for the cohort effect faded. The emergence in the 1990s of a new epidemic of marijuana use among teens once again yielded a strong pattern of cohort effects. As can be seen in Figure 5-3c, daily use rose sharply among $12^{\text {th }}$ graders and 19to 20 -year-olds after 1992, among 21- to 22-year-olds after 1993 with a sharp rise occurring in 1997, among 23- to 24 -year-olds after 1998, among 25- to 26-year-olds after 2000, among 27- to 28 -year-olds in 2003, among 29- to 30 -year-olds in 2005, among 35and 40 -year-olds in 2006, and among 45 -year-olds in 2007. This is not unlike the pattern of change for cigarette smoking that occurred in the 1990s (Figure 5-19a). The cohort effect for daily marijuana use may be attributable, in part, to the very strong association between that behavior and regular cigarette smoking. The net effect of all of this is that a considerable age difference has emerged in current daily marijuana use since the early

[^43]1990s, when there was practically no difference. The cohort effect resulting from the rise in use among 18 -year-olds in the latter half of the 1990s has been working its way up the age spectrum, and in 2010 was observable in the form of a significant increase among 35-year-olds. In 2014, among the 40-, 45-, 50-, and 55-year-olds in the study, 1.4-2.6\% reported that they currently smoked marijuana on a daily basis (though many more of them did so in the past) while among those ages 19 to 24 , between $6.8 \%$ and $7.9 \%$ did so.

- In sum, up until 1992, trends in illicit drug use were highly parallel across $12^{\text {th }}$ graders and young adult age groups, indicating a secular trend; this was not true for cigarettes and alcohol. Since 1992, however, there has been considerable divergence in the trends for different age bands on a number of drugs as use among adolescents rose sharply, followed by subsequent rises among 19- to 20-year-olds, 21- to 22-year-olds, and so on. This divergence indicates a new cohort effect, quite possibly reflecting a generational forgetting of the dangers of drugs by the cohorts who reached senior year in the early to mid-1990s. Data discussed in Chapter 6, "Attitudes and Beliefs about Drugs among Young Adults," provide additional evidence for this interpretation.

The resurgence of illicit substance use in the past few years among secondary school students is showing up among the age bands 19-28, but generally not those above age 35 .

## TRENDS FOR IMPORTANT SUBGROUPS OF YOUNG ADULTS

Four-year age bands have been used here to examine subgroup trends in order to yield sufficiently large numbers of cases to permit reliable estimates for the various subgroups being examined. Subgroup data for respondents of each gender and for respondents from communities of different sizes are available for 19- to 22-year-olds since 1980, 23- to 26-year-olds since 1984, and 27- to 30 -year-olds since 1988. A question about state of residence was added in 1987 to all follow-up questionnaires, permitting trend data to be calculated for the four regions of the country since then. These various subgroup data are not presented in tables or figures here because of the substantial amount of space they would require. However, for the reader interested in more detail, these will soon be available in a separate MTF Occasional paper. Data from 2013 are available in MTF Occasional Paper 80 at http://www.monitoringthefuture.org/pubs/occpapers/mtf-occ80.pdf. That document contains both tabular and graphic presentations of the data, with the graphs, which are by far the easier to read, showing each subgroup in a different color. A verbal synopsis of 2014 data is presented below.

## Gender Differences in Trends

- Over the long term, gender differences narrowed for some drugs among young adults in each of these three age bands, primarily when a steeper decline in use among males (who generally had higher rates of use) occurred in the 1980s. The overall picture, though, is one of parallel trends, with use among males remaining consistently and modestly higher for most drugs, including the indexes of any illicit drug use and use of any illicit drug other than marijuana in the prior year (see Table 5-5, for example).

The downward trend in marijuana use among 19- to 22-year-olds between 1980 and 1989 was also a bit sharper among males than females, narrowing the gap between the two groups. Annual prevalence fell by 22 percentage points (to $34 \%$ ) among males, compared to a drop of 14 percentage points (to 31\%) among females, leaving a difference of three percentage points. Since 1995, the gender gap has averaged about 5 to 9 percentage points in all three age groups-that is, for 19- to 22-year-olds, 23- to 26-yearolds, and 27- to 30-year-olds.

Similarly, between 1980 and 1993, daily marijuana use for the 19-22 age group fell from $12.9 \%$ to $2.9 \%$ among males, and $6.1 \%$ to $1.7 \%$ among females, narrowing the rather large gap that existed in the early 1980s. As overall use rose after 1993, the gap widened again. Among 23- to 26-year-olds, as daily use first began to increase in 1998 and 1999, the gap between the genders began to widen. In the oldest age group (ages 2730), the difference had been fairly constant, with daily marijuana use among males generally being about two percentage points higher than among females; however, during the recent period of rising daily use, which began around 2005, the gender gap has widened.

- In all three age bands, use of synthetic marijuana by males tends to be higher than use by females. In 2011, when use was first measured, it was highest among the 19- to 22-year-olds with males higher than females; it has fallen sharply over the past two years for both genders and the gap between them is closing considerably. Annual prevalence in 2014 for the 19-22 age group was $3.2 \%$ for males and $0.8 \%$ for females. The two older age bands started out with considerably lower rates in 2011, but also have shown some decline since, narrowing the gender difference among 27- to 30 -year-olds (to $1.9 \%$ versus $0.4 \%$ ).
- For $\operatorname{LSD}$, males have consistently had higher rates of use than females. Among 19- to 22-year-olds, the male-female differences tended to diminish as use declined (from 1980 to 1985 and again from 1999 to 2004) and expand as use increased (1986-1995). In the two older age bands there was less change in use, and differences had been relatively consistent (with males higher) since data have been available, beginning in 1984 for 23- to 26 -year-olds and in 1988 for 27- to 30 -year-olds. After 1999 and 2001 for the two groups, respectively, overall LSD use dropped, substantially narrowing the gender differences. Males began to show these declines first, and both genders have moved to almost no use of LSD since about 2003.
- Use of hallucinogens other than LSD taken as a group has consistently been higher among males in all three age strata with the difference growing larger when use increased some in the late 1990s and early 2000s. The differences have been greatest in the youngest of the three age strata and least in the oldest one.
- Ecstasy (MDMA) exhibited little or no gender difference in any of the three age bands before use began to grow in the late 1990s. Between then and 2009, there was little gender difference in ecstasy use among 19- to 22-year-olds. In recent years, males have had slightly higher rates of use. In the older age groups a gender difference opened up
after 1997, with males fairly consistently having higher rates of use among both 23- to 26 -year-olds and 27 - to 30 -year-olds.
- The annual prevalence of salvia use was much higher among males in the 19- to 22-year-olds when first measured in 2009, and somewhat higher in the two older age groups. However, use by males has dropped dramatically in the years since then. Use by females has also dropped, and in 2014 males were higher only in the 19-22 year old group.
- Males have had higher rates of cocaine use than females since MTF began. During the period of sharp decline from the peak levels in annual cocaine prevalence (1986-1993), use dropped more among males than females, narrowing the gender differences that existed. In the 19- to 22-year-old age band, annual prevalence for males declined by 16 percentage points (to $4.5 \%$ ) versus 13 percentage points among females (to $2.8 \%$ ) by 1993. In the 23- to 26 -year-old age band, there was also a narrowing of the gender difference between 1986 and 1993, with annual prevalence down 19 percentage points among males (to 6.9\%) and 13 percentage points among females (to $4.2 \%$ ). Use in the 27- to 30 -year-old group also dropped faster among males between 1988 (when data were first available) and 1997-down 13 percentage points versus 7 among females. In sum, during the period of sharp decline in overall cocaine use, the gender differenceswhich had been fairly large-narrowed considerably in all three of these age bands. During the resurgence in cocaine use of the 1990s and into the early 2000s, which has occurred on a somewhat staggered basis over the years, the gap between genders expanded only slightly. In 2014 there were only modest differences in cocaine use between the genders.
- Crack followed a similar pattern during the earlier period of decline, though the proportional difference between the two genders has consistently been higher than for cocaine overall. With crack, though, there was some gender convergence (between 1992 and 1998) among 19- to 22-year-olds, as use among males declined slightly and use among females rose gradually. Since 1999, there has been no consistent change in differences between males and females. In all three age bands, males consistently had slightly higher crack usage rates, at least until a greater decline among males in recent years has nearly eliminated the differences.
- During the period from 1982 through about 1994, there was little gender difference in annual prevalence for heroin use. After 1994, use increased some among the younger groups, with males generally attaining slightly higher rates than females. A similar small increase, slightly higher for males, happened among the 27 - to 30 -year-olds between 2000 and 2007 and again after 2010.
- Among 19- to 22-year-olds, both genders showed some decline in their nonmedical use of narcotics other than heroin between 1980 and 1991, with a near elimination of previous gender differences (males had been higher). Beginning in 1994, use by males began to rise in this age group, while use by females began to rise a year later. Some gender differences developed as use increased, with use by males being higher; after 2006, as use declined, there was less of a difference, with annual prevalence in 2012 at
$7.4 \%$ for males and $6.3 \%$ for females. The gender difference may have expanded some after 2012. The picture for 23- to 26 -year-olds is very similar except that the increase in use occurred a few years later and there was no divergence between the genders after 2012. The gender difference (males higher) had been eliminated by 1988, but reemerged after 1995 as use increased more among males. Among 27- to 30-year-olds, there has been a smaller gender difference and the least increase in use in the 2000s. Still, use increased for both genders after 1999, with males emerging with modestly higher rates of use.
- Since 2002, the first year in which the survey gathered data on nonmedical use of OxyContin, its use has generally been higher among males than females for all three age bands. Both genders showed some increase in use between 2002 and 2009 or 2010, followed by some falloff since then. By 2014 there was little or no gender difference in any of the three age bands.
- Nonmedical use of Vicodin, first measured in 2002, also has been higher among males in most years. There was more of an increase in use among males in all age bands initially, but the males began to trend down earlier than the females, reducing the disparities in use such that by 2012 the gender difference was virtually eliminated among adults ages 23 to 30 .
- In general, there have been no appreciable gender differences in amphetamine use for some years in any of these three young adult age bands. Between 1981 and 1991, rates of amphetamine use were similar for males and females and showed substantial and parallel downward trends for both genders. Among 19- to 22-year-olds, annual prevalence of use dropped 22 percentage points for males (to $5.2 \%$ in 1991) and 21 percentage points for females (to $4.7 \%$ in 1991). There were small increases in annual prevalence for both genders in the 19- to 22-year-old age group after 1991, in the 23- to 26 -year-old age group after 1995, and in the 27 - to 30 -year-old age band after 2000, but the genders diverged only slightly (with males higher); amphetamine use has been drifting up slowly in all three age bands since about 2008, with males becoming consistently higher than females, particularly among the 19- to 22 -year-olds, which is the age band that contains significant numbers of college students who may be using amphetamines in an attempt to improve their academic performance.
- Nonmedical use of Ritalin, a prescription stimulant used in the treatment of ADHD, was added to MTF questionnaires in 2002. Its use generally has been slightly higher among males than females, but the differences nearly disappeared by 2011. The gap reappeared after 2011 among the 19- to 22-year-olds, as use by males increased. Both genders decreased in 2014, however, and their use is considerably below where it was in 2002. Among 23- to 26-year-olds there has been no gender difference in use since 2011 and use has been stable since then. Among the 27 - to 30 -year-olds there has not been any consistent gender difference since 2010, but both genders have been showing some rise in use since then, though they were still at 1.8\% annual prevalence in 2014.
- Like Ritalin, nonmedical use of Adderall (another prescription stimulant) has generally been slightly higher among males than females since the question was added in 2009
with the largest difference being among 19- to 22-year-olds, which includes most of those in college. The gender differences generally have been small among those over age 22.
- A question on methamphetamine use was introduced in 1999. The youngest age stratum had the highest rate of use for both males and females, with males considerably higher, but also showed the greatest decline in the years since then. By 2011 their rates of use were at or below $1.0 \%$ among males and females in all three age bands, and have been $1.8 \%$ or less since then. Among the 27- to 30 -year-olds, a small gender gap has reemerged since 2010.
- Crystal methamphetamine ("ice") was added to the study's coverage in 1990. In the early 1990s, use was low and very similar for both genders in all three young adult age bands. In the mid-1990s the younger two age bands showed a greater increase in use among males, opening a gender gap. The gap then narrowed, though males on average were slightly more likely to report use of crystal methamphetamine until 2005. Since 2009 the gender differences have been small in the two younger age strata, but have reemerged among the 27 - to 30 -year-olds. It should be noted that the estimates are a bit unstable for this drug due to limited sample sizes. Questions about the use of "bath salts"-stimulant designer drugs (cathinones) meant to mimic the effects of amphetamines-were first introduced in 2012, so there are as yet very little data on trends in their use. Among 19- to 22-year-olds in 2012 there was a large gender difference in use (annual prevalence of $3.0 \%$ among males vs. $0.5 \%$ among females); however, there was virtually no gender difference in the two older age bands $(0.7 \%$ vs. $0.6 \%$, respectively, among 23 - to 26 -year-olds and less than $0.5 \%$ for both genders among 27- to 30 -year-olds). In 2013 the large gap between the genders among the 19- to 22-year-olds disappeared as males that age showed a significant 2.8 percentage point decline in use. This decline coincided with a dramatic 18 percentage point increase in the perceived risk of trying bath salts. A similar change in perceived risk occurred among both older groups, as well, no doubt serving to hold their usage rates very low.
- As sedative (barbiturate) use declined through the 1980s, the modest gender differences (males were higher) were virtually eliminated in all three age bands. Beginning in the early 1990s, a staggered increase in use by both genders emerged across all three age groups, with males increasing more than females, thereby again opening a small difference in the late 1990s and 2000s. After declines in the past few years, the differences have essentially been eliminated.
- For tranquilizers, both genders showed a long, gradual decline (and very similar rates of use) from 1980 through about 1993 in all three age bands. Beginning in 1995, use increased for both genders in the 19 - to 22 -year-old group, followed by an increase beginning after 1997 among 23- to 26-year-olds and after 1999 among 27- to 30-yearolds, again reflecting cohort effects driven by generational replacement. Some gender difference emerged during these periods of increase and during the subsequent decrease after 2002 and 2003 for the two younger age bands. Males generally reported somewhat higher usage rates, though the differences have tended to narrow in recent years. Males generally had somewhat higher rates from 1994 through 2013 among the 19- to 22-year-
olds, from 1994 through 2009 among the 23- to 26-year-olds, and from 2004 to 2012 among the 27 - to 30 -year-olds.
- Inhalant use has generally been quite a bit higher among males than females, particularly in the younger age groups. The 19- to 22-year-old group showed a gradual upward shift from 1980 to 1988, followed by a leveling for some years for both genders. In 1997, female inhalant use began to decline among 19- to 22-year-olds, followed by males in 2001; however, the gender gap did not diminish much with this decline until 2005, when there was a convergence. Among 23- to 26 -year-olds the gender gap widened as use by males increased between 1992 and 1999, though a subsequent decline in use among males narrowed the gap, almost eliminating it by 2005. It then re-emerged by 2008. In the oldest age stratum, use among males has .fairly consistently .been slightly higher, though the prevalence of inhalant use is very low by this age.
- Use of three "club drugs"-GHB, ketamine, and Rohypnol-has tended to be a bit more concentrated among males in all three age strata. But here again, the estimates are not very stable because of the limited numbers of cases upon which they are based. By 2009, prevalence rates were very low for all three drugs, and gender differences were small; this has continued to be the case in the years since then. Rohypnol was dropped from the study in 2010 because of the low numbers of users, at which point no gender difference remained in any of the three age groups. (In earlier years use by males had tended to exceed use by females.)
- For alcohol, 30-day prevalence rates exhibited a gradual, parallel decline from 1981 through 1992 for both genders in the 19 - to 22-year-old age group. Thirty-day prevalence fell from $83 \%$ to $72 \%$ among males and from $75 \%$ to $62 \%$ among females by 1992. There has been a convergence since then, beginning in the late 1990s, because use by males has declined slightly while use by females increased slightly through 2008, before dropping a bit. The increasing proportion of women attending college may help to explain this convergence at least in part. The gender difference was virtually eliminated in this age group by 2004 and use has remained quite level since for both genders. In the two older age bands, there was a more modest, parallel decline for both genders, from 1985 through 1992 in the case of 23- to 26 -year-olds, and at least from 1988 (when data were first available) to 1991 or 1992 in the case of 27 - to 30-year-olds. After 1992, use among males in the older two age bands showed fairly level rates of use; but use among females rose gradually, considerably reducing the difference among 23to 26 -year-olds ( $76 \%$ vs. $70 \%$ in 2014) and narrowing the difference in the oldest young adult group ( $80 \%$ vs. $72 \%$ in 2014).

There was also a general long-term decline in daily drinking from about 1981 or 1982 through about 1992, with daily use falling more among males, considerably reducing, but far from eliminating, what had been a large gender difference among 19- to 22-year-olds. To illustrate, in 1981, $11.8 \%$ of males reported daily use versus $4.0 \%$ of females; the comparable 1992 statistics were $5.3 \%$ and $2.7 \%$. After 1995, daily drinking began to increase among 19- to 22-year-olds for both genders, but leveled a few years later. From 2002 to 2005 daily use was rising among males and falling among females, increasing their differences, but since 2005 there has been a considerable convergence with daily use
among males falling and use among females increasing modestly. In 2014 there still is a gender difference for daily drinking among the 19- to 22-year-old age group-5.5\% for males versus $3.2 \%$ for females-but not nearly as large as it was in 1981 ( $11.8 \%$ vs. $4.0 \%$, respectively). The gender differences have been larger for the older age groups. In 2014, daily use declined among males and increased among females in all three age groups, suggesting that some convergence may be occurring. Among the 27- to 30-yearolds the gender difference has increased since 2000, with use rising among both genders, but to a greater extent among males; in 2014 their daily drinking rates were $10.2 \%$ for males vs. $4.4 \%$ for females.

There are also long-established and large gender differences in all age groups in the prevalence of occasions of heavy drinking. Males in the 19- to 22-year-old band have shown some longer term decline in this statistic, from 54\% in 1986 to $45 \%$ in 1995 to $39 \%$ in 2014. Use by females declined less, from $33 \%$ in 1981 to $28 \%$ in 1995 before rising some to $34 \%$ in 2006, and then back to $27 \%$ in 2014 . Thus, the gender gap has narrowed (from 24 percentage points in 1986 to 17 percentage points in 1995 to 10 percentage points by 2013). In the two older age bands (23- to 26 -year-olds and 27 - to 30 -year-olds), the sizable gender differences remained mostly stable as the binge drinking rates drifted steadily upward in both genders since the early 1990s. However, these rates have leveled or even declined a bit in both genders among 19- to 22 -year-olds for about the past seven years, among 23- to 26 -year-olds over the past five years, and among the 27 - to 30 -year-olds in the past four years. The sustained increase for 23 - to 26 -year-olds up through 2009 is striking, and may be due at least in part to the increased rate of college attendance and decreased rate of marriage among those in this age group. ${ }^{15,16}$

- Most striking for cigarette smoking by young adults are the similarities between the genders in both absolute levels and trends. All three age groups showed a long-term decline in daily smoking rates for both males and females after data were first available for each: 19- to 22-year-olds from 1980 to 1990, 23- to 26-year-olds from 1984 to 1992, and 27- to 30 -year-olds from 1988 to 1999—again reflecting a cohort effect moving up the age scale. Males had slightly higher rates of daily smoking after 1994 in the youngest stratum, after 1998 in the middle age stratum, and after 2001 in the oldest stratum; but the two younger strata have seen a convergence between the genders in the past two or three years. Male and female trends in 30-day smoking rates have also been quite parallel over most of the time for which data are available, particularly in the two older age groups. Among 19- to 22-year-olds there was a crossover after 1993—before that point, females had slightly higher 30-day prevalence rates, whereas males did from 1994 onward, primarily because use was rising faster among males through 1999. Both genders in this age group have shown considerable declines since 1999. Among 23- to 26-year-olds, the genders had very similar smoking rates until males started reporting

[^44]higher 30-day smoking rates from 1998 on. Males declined less after 1998, opening up a modest gap; however, this gap has narrowed over the past six years as smoking has declined more among males. In the oldest age band, the two genders were quite close until males opened the gap in 2002, and their rate has generally remained somewhat higher since then; in fact, the gap has widened some as use among females has declined more than among males. Indeed, in recent years smoking among females in all three age bands has declined more than has smoking among males. In 2014 the prevalence rates for 30 -day smoking in the oldest age band were $23 \%$ among males and $16 \%$ among females.

## Regional Differences in Trends

The respondent's current state of residence was first asked in the 1987 follow-up survey; thus trend data by region exist only for the interval since then. In this case, changes have been examined for all 19- to 28-year-olds combined to increase estimate reliability. Because gender, for example, crosscuts all regions, it has less sampling error than when the sample is divided into four separate regions. (Each region is represented by between 800 and 2,200 cases in all years.) By combining across all ages, we lose the ability to see the cohort effects that have occurred with many drugs, but we are able to see whether overall trends are similar across regions. In general, the changes that have occurred since 1987 have been fairly consistent across regions, particularly in terms of the direction of change. The four regions of the country-Northeast, Midwest, South, and West-have generally moved in parallel. Rather than include the large number of tables or figures necessary to show regional trends, we provide a verbal synopsis instead. The detailed information on subgroup trends will soon be available in graphic and tabular forms in an MTF Occasional Paper. Data from 2013 are available in MTF Occasional Paper 80 which may be accessed at http://www.monitoringthefuture.org/pubs/occpapers/mtf-occ80.pdf .

- There were substantial drops among young adults in all four regions between 1987 (the initial measurement point) and 1991 for any illicit drug, marijuana, any illicit drug other than marijuana, cocaine, crack, and amphetamines. After 1991, most or all regions showed some increase and then a leveling in the use of these drugs (except cocaine, which continued to decline through the mid-1990s, inched up thereafter, remained fairly level through 2006, and has declined since).

The proportions of 19- to 28-year-olds using any illicit drug have been consistently lowest in the South and highest in the West and Northeast.

- For marijuana use, the South has usually been lowest, and for the most part the Midwest has been second lowest. Generally, the other two regions have been fairly close to one another. However, the differences have generally not been great. The 2014 prevalence rates ranged from $59.1 \%$ to $66.5 \%$.
- For the use of any illicit drug other than marijuana, until 2000 the West stood out as consistently highest, with the other three regions being very similar; since 2001, use in the Northeast generally has been about as high as in the West, though the regional differences are not large and the regions have moved in parallel.
- Data on use of synthetic marijuana have been gathered only since 2011. The data from respondents one to ten years past high school have been combined to minimize random fluctuations resulting from small samples. These data show a considerable decline between 2011 and 2014 in all four regions. In 2014 all four regions declined, with the declines in the Northeast and Midwest reaching statistical significance. There remains little difference among the regions in annual prevalence, which ranges from $0.8 \%$ to $1.8 \%$ across the four regions in 2014.
- From 1987 (when data were first available) through 1994, rates of inhalant use remained relatively stable, quite low, and about equal in all four regions among 19- to 28-year-olds. Annual use then rose in the Northeast in 1995 and 1996 and remained higher than in the other regions through 2000, before dropping back to rates comparable to the other three regions. Except for that divergence, the regions have moved very much in parallel for this class of drugs. Annual prevalence in 2014 is at low levels in this age group, ranging between $0.9 \%$ in the Midwest and South and $1.4 \%$ in the West.
- From 1987 (when data were first available) through 2001, the West had the highest level of lifetime prevalence for LSD. From 1991 through 1995, the West had slightly higher annual prevalence rates of LSD use than the other three regions among young adults (use dropped in 1995 in the West). Otherwise the usage rates have been quite similar in all four regions; all showed sharp declines in LSD use after 2001, though use had been declining some in all regions for several years prior to that. In the past six years the Northeast has emerged as having a slightly higher annual prevalence than the other three regions.
- Salvia, which was first measured with a tripwire question in 2009, and for which we combine data for all respondents one to ten years past high school, showed a continuous decline from 2009 through 2013 in the West (which started out highest) and the South. Use began to decline in the Midwest after 2010 and in the Northeast after 2011. Use is quite low in all regions by 2014 at less than $2.2 \%$ annual prevalence, compared to $2.5 \%$ to $5.4 \%$ in the four regions in 2009.
- Questions about ecstasy (MDMA) were added to the follow-up surveys of young adults in 1989. Through 1993, rates were highest in the West and South and lower in the Northeast and Midwest regions. Subsequently, use in the Northeast began to increase (as was true among $12^{\text {th }}$ graders), exceeding levels of use found in the South and West from 1999 to 2001. The Midwest has quite consistently had a much lower level of ecstasy use than the other three regions, although it was joined by the South in recent years. In 2000 all four regions showed a sharp and fairly parallel increase in ecstasy use; the rise decelerated in 2001 and began to decline thereafter in all regions. As discussed elsewhere, we believe that this decrease may have been caused by growing concern about the hazards of ecstasy use. By 2003, little regional difference remained in annual prevalence, largely because the declines in use were most pronounced in the Northeast and West. By 2007, use was down a little more in all regions; but after 2007 ecstasy use generally was increasing in the West until it leveled after 2012, and a similar trend occurred after 2010 in the Northeast as well, thereby opening regional differences. In

2014 annual prevalence rates among young adults were $6.4 \%$ in the West, $5.5 \%$ in the Northeast, $4.4 \%$ in the South, and $3.3 \%$ in the Midwest.

- The considerable declines in cocaine use, observed in all regions between 1987 and 1991, were greatest in the two regions that had attained the highest levels of use by the mid-1980s-the West and Northeast. Thus, regional differences had diminished considerably by 1992. Similar to the finding for $12^{\text {th }}$ graders, in 1992 the decline in annual prevalence stalled in all regions except the Northeast. A gradual further decline then occurred in all regions through 1996 (1997 for the West) before a slight rise began to occur, likely reflecting the effects of generational replacement. Regional variability in annual cocaine prevalence was minimal for some years after the mid-1990s, but since 2005, use in the Midwest and South has declined more than in the West and Northeast, enlarging the regional differences somewhat. Annual prevalence for the young adult age band in 2014 was $6.7 \%$ in the Northeast, $6.0 \%$ in the West, $4.4 \%$ in the South, and $3.5 \%$ in the Midwest.
- All four regions also exhibited an appreciable drop in crack use between 1987 and 1991, again with the greatest declines in the West and Northeast, where prevalence had been the highest. Use then generally leveled in all regions except the South, where it continued a gradual decline through 1997. As was true for cocaine generally, annual prevalence rates among the regions have converged and at a very low level, ranging from $0.2 \%$ to $0.6 \%$. (Lifetime prevalence of crack use generally has been highest in the West since crack use was first measured in 1987, as is true for cocaine in general.)
- The regions have trended fairly similarly in their prevalence of amphetamine use by young adults. The only modest exception was that use declined more in the Northeast (which started out lowest) in the period 1987 to 1992, giving it a substantially lower rate than the other three regions; it remained lowest until 1998. The West has fairly consistently had the highest rate, but not by much. By the late 1990s, the Northeast had caught up to the Midwest and South, making the regional differences very small; there have been essentially no regional differences since 2000. In 2014 the annual prevalence rate ranged between $7.4 \%$ in the South and $9.5 \%$ in the Northeast.
- Methamphetamine use has been measured only since 1999 (though crystal methamphetamine, discussed next, has been in the study for a longer interval). It shows some differences in rates among the regions and some differential trending, with a gradual decline in annual prevalence in the Northeast (where use has generally been lowest) and a gradual increase in the West (where use has usually been highest) from 2000-2004, after which use declined in the West. Use in the other two regions remained fairly flat until 2006, when both showed some decline. Use in the West has fallen since 2006, leaving very little variability among regions by 2014. (Lifetime prevalence reached particularly high levels in the West, starting at $16 \%$ in 1999, and declining fairly steadily to $4 \%$ in 2014.) Annual prevalence now ranged from $0.2 \%$ in the Midwest to $1.2 \%$ in the West in 2014.
- The West has also consistently had the highest rates for crystal methamphetamine (ice) use, and the regional differences have been very substantial, particularly in terms of
lifetime use. The Northeast has generally had the lowest rates. When data were first available on crystal methamphetamine in 1990, the West had a lifetime prevalence of $5.1 \%$ versus a range of $1.7 \%$ to $2.3 \%$ in the other three regions. By 2006 , the lifetime prevalence rate in the West had increased to $8.8 \%$, and lifetime prevalence in the Midwest and South grew quite steadily over that interval. This strongly suggests that crystal methamphetamine use among young adults diffused from the West primarily to the South and Midwest regions, but diffused much less to the Northeast, which has had the lowest prevalence since 1998. The annual prevalence figures tell a similar story, but also show that there was a spike in past-year use in the West from 1991 to 1995 before use there declined and then stabilized at around $2 \%$ from 1997 through 2001. Rates then rose again in the West between 2001 and 2003 and stabilized at a higher level around $2.7 \%$. Since 2006, use in the West declined, narrowing the differences among regions. In 2014, annual use of crystal methamphetamine stood between $0.0 \%$ and $0.9 \%$ across all regions.
- Bath salts (synthetic stimulants sold over the counter) were first included in the study in 2012 and showed some regional variation, though all regions had an annual prevalence of use below $1.7 \%$. Use by young adults was highest in the Northeast at $1.6 \%$ in 2012, but use in all regions has fallen from the 2012 levels, and the differences among regions are now minor.
- The annual prevalence for sedatives (barbiturates) remained flat, and at about equivalent levels, in all four regions of the country from 1987 through 1994. Rates then rose gradually and in parallel in all regions for a number of years, followed by some leveling; regional differences have been consistently small. In 2014 annual prevalence ranged from $2.5 \%$ to $3.5 \%$.
- The picture for tranquilizers is similar to that for sedatives (barbiturates). Annual prevalence generally held fairly steady in all regions from 1987 through 1993. Since then there has been some increase in all regions, with the South experiencing the most increase through 2004, after which all regions showed a leveling in use, followed by a gradual decline in use since about 2007. The regional differences have been small, though they grew a bit larger during the period of increasing use in the late 1990s. Annual prevalence rates in 2014 ranged from $3.4 \%$ in the West to $6.0 \%$ in the Northeast.
- Levels and trends in heroin use have been quite comparable across the four regions since 1987, at least until recently. All regions had low and stable rates through the early 1990s. A gradual increase was observed from about 1993 through 2000, during the relapse phase in the overall drug epidemic, and annual prevalence was fairly stable in all regions through roughly 2004. After that, there was a steady increase in heroin use in the Northeast from $0.4 \%$ in 2004 to $1.1 \%$ in 2009, and also an increase in the West, from $0.3 \%$ in 2004 to $0.8 \%$ in 2009. After 2009 young adults in these two regions continued to have the highest prevalence of heroin use through 2012. In 2013, use continued to rise in the Northeast bringing its annual prevalence up to $1.8 \%$, compared to $0.2 \%$ to $0.5 \%$ in the other three regions. This rise in the Northeast is consistent with statements by governors in the Northeast that they were facing a rising level of heroin use. The rate in the West fell back to $0.5 \%$ in 2013. In 2014 there was a significant decline in annual
prevalence in the Northeast, leaving it only slightly higher than the other regions (at $0.6 \%$ vs. between $0.3 \%$ and $0.4 \%$ ).
- Trends in prevalence of the use of narcotics other than heroin have been quite parallel for the four regions. After a period of slight decline between 1987 and 1993 in all regions, a gradual, long-term, and substantial increase occurred from the mid-1990s through 2003 or 2004, depending on the region, with little systematic change through 2010, at which point use began to decline gradually in all regions. The South has tended to have the lowest prevalence of use since 2003, with the other three regions being tightly grouped; however, all regions were about the same in 2014, with annual prevalence rates ranging from $5.9 \%$ to $6.9 \%$.
- The annual prevalence of $\boldsymbol{O x y C o n t i n}$ use was highest in the Northeast and lowest in the West in 2002, when it was first measured. Use rose some in all regions through about 2009, and it has shown a substantial decline in all regions since then. The Midwest had the lowest prevalence rate from 2010 through 2012, but has been about average since then. The four regions were tightly grouped in 2014, with annual prevalence ranging from $2.1 \%$ to $2.7 \%$. In general, regional differences have not appeared very consistent due to the limited sample sizes.
- Annual prevalence of use for Vicodin has shown some variation among the regions. The West and Midwest generally have had the highest rates, with the South the lowest and the Northeast in between. However, the West and Midwest have shown declines in use since 2005 and 2006, respectively, narrowing the differences; the South continues to have the lowest level of use. Annual prevalence rates in 2014 ranged from 3\% in the South to $5.2 \%$ in the Northeast to $6 \%$ in the Midwest and West. (It should be noted that the sample sizes are more limited than usual for Vicodin and OxyContin, because questions about their use are contained on only two of the six questionnaire forms. As a result, the trends are more difficult to discern with confidence.)
- When two club drugs, ketamine and GHB, were first measured in 2002, the Northeast stood out as having a higher rate of annual use (especially so for ketamine); but use in the Northeast dropped over the next two years, bringing that region's usage rates down to the same very low levels as the other three regions. There appears to have been a little resurgence of ketamine use between 2008 and 2010 in all regions except the Midwest, followed by a decline in all regions in 2011. In 2012 through 2014 ketamine use stood higher in the Northeast than in the other regions. GHB use also appeared to rise in the Northeast in 2012, but use then fell back in 2013. No region had an annual prevalence above $0.8 \%$ in 2014 for either drug.
- Note: Questions about the use of Rohypnol were discontinued in 2010. Rohypnol use remained very low in all four regions from 2002, when it was first measured, through 2009, not reaching $1 \%$ in any region. For this reason, questions about its use were dropped from the surveys in 2010 to make room for other drugs.
- With respect to alcohol use, there were modest declines in 30-day prevalence in all four regions between 1987 (when the first measurement was available for 19- to 28-year-
olds) and 1992. The rates for 30-day prevalence among young adults then leveled in all regions. The West and South have consistently had lower rates of 30-day use than the Northeast and Midwest (as has generally been true among $12^{\text {th }}$ graders).

Current daily use of alcohol also showed a decline from the first (1987) data collection through about 1994 or 1995 in all regions. The proportional declines were substantialon the order of $40-50 \%$. (This decline corresponds to a period of appreciable decline in daily drinking among $12^{\text {th }}$ graders, though we can tell from their longer-term data that their decline started in 1980; thus the decline may well have begun earlier among 19- to 28-year-olds as well.) After the mid-1990s there was some upward trending in daily prevalence in all regions through about 2007 or 2008, followed by a leveling. In 2014 the four regions had rates of daily alcohol use between $3.8 \%$ and $6.1 \%$.

Occasions of heavy drinking (or binge drinking) was fairly level in all regions between 1987 and the late 1990s or early 2000s. There were then some modest increases through about 2006, followed by a leveling and even a slight decline, particularly in the West. The rates have consistently been appreciably higher in the Northeast ( $40 \%$ in 2014) and Midwest (43\%) than in the South (28\%) and the West (29\%).

- There have been highly consistent regional differences among young adults in cigarette smoking since data were first available in 1987-they exist for monthly, daily, and half-pack-daily prevalence rates. The West has consistently had the lowest rates of daily prevalence (e.g., $9 \%$ in 2014, compared to $11-13 \%$ in the other three regions), with the Northeast and Midwest generally a little higher than in the South. The South, however, showed less decline in recent years than the Midwest and the Northeast, eliminating the difference with the Northeast by 2008, and by 2014 it had the highest level of daily smoking among the four regions. After some slight decline in 30-day prevalence in all regions between 1987 and 1989, rates leveled off for about five years (roughly through 1994). There then followed a very gradual increase of a few percentage points through 1998, followed by a gradual decrease-likely reflecting cohort effects resulting from the changes in smoking during the high school years. Daily use showed a very similar pattern. For half-pack-a-day smoking, the decline phase was longer (from 1987 through about 1992 or 1993), likely reflecting the lag between smoking initiation and regular heavy smoking. Since 1998, half-pack smoking rates have gradually declined in all four regions. The gradual declines in daily smoking have cumulated and have been important. Between 2004 and 2014, daily prevalence fell among young adults from 23\% to $10 \%$ in the Northeast, $24 \%$ to $11 \%$ in the Midwest, $20 \%$ to $13 \%$ in the South, and $16 \%$ to $9 \%$ in the West. In general, all of these measures have shown parallel movements across regions, suggesting that the forces accounting for whatever changes there have been are nationwide in scope. It should be remembered that, as illustrated earlier in this chapter, there are strong cohort effects in smoking that are obscured to a considerable degree when we combine age groups across a 10-year age span, as we have done in the present analyses.


## Population Density Differences in Trends

The analyses presented here for population density return to the use of four-year age groupings, which allows a longer time interval to be examined for the younger strata and for cross-age comparisons of the trends. Among young adults, five levels of population density are distinguished based on the respondent's answer to the question, "During March of this year did you live mostly . . ."; answer alternatives were in a very large city (over 500,000 people), in a large city $(100,000$ to 500,000 ), in a medium-sized city $(50,000$ to 100,000$)$, in a small city or town (under 50,000), or on a farm/in the country. Data on the suburbs of cities of each size were combined with the corresponding city. These various subgroup data are not presented in tables or figures here because of the substantial amount of space they would require. Rather, a verbal synopsis of what they contain is presented. More detailed information on subgroup trends will soon be available in graphic and tabular form in an MTF Occasional Paper. Data from 2013 is available in MTF Occasional Paper 80, which may be accessed at http://www.monitoringthefuture.org/pubs/occpapers/mtf-occ80.pdf.

- The proportions of young adults using any illicit drug for the most part have moved in parallel among the various community-size strata. In general, the farm/country stratum has tended to have the lowest use. The other four community-size strata have tended to differ little from one another, though the very large cities have generally ranked at the top. In 2014, the proportions of 19- to 22-year-olds reporting use of an illicit drug in the past year were $35 \%$ for the farm/country stratum, $40 \%$ for small towns, $40 \%$ for medium-sized cities, $44 \%$ for large-sized cities, and $49 \%$ for very large cities.
- Trends in the use of any illicit drug other than marijuana tell a similar story. There was a long period of fairly parallel declines along with some convergence of usage rates among the community-size strata at all three age levels (among 19- to 22-year-olds it was between 1981 and 1992), followed by an increase in use and more recently a leveling. In general, medium, large, and very large cities have all tended to have about the same rates, and the farm/country stratum has tended to have the lowest rates, particularly prior to 1990; the differences by population density have been quite small since about 2000, ranging from $16 \%$ to $20 \%$ prevalence across the different communitysize strata among 19- to 22 -year-olds in 2012, for example. However, in 2014 there was a significant increase of 8.1 percentage points among 23 - to 26 -year-olds in very large cities, and increases there in the other two age groups as well. Indeed, there were increases observed in four of the five community size strata in each of the three age bands in 2014, reflecting the overall rise in 2014 in this measure noted above.
- Marijuana use has moved pretty much in parallel among the various community-size strata over the time intervals for which data exist. Among 19- to 22-year-olds, the annual prevalence rates have been quite close among communities of all sizes, except for the farm/country stratum. This most rural stratum has fairly consistently had the lowest rate of marijuana use, at least until 2013 and 2014, when an increase in use brought it up to a rate comparable to that of the small towns. Use in the farm/country stratum fell less in the decline period and rose more slowly in the subsequent increase than in the other community-size strata, first narrowing and then increasing the gap. Among all three age
strata annual prevalence of marijuana use is ordinally related to population density. For example, among 23- to 26 -year-olds it is $26 \%$ among the farm/country stratum and rises to $35 \%$ in the very large cities in 2014.
- Daily marijuana use has also moved largely in parallel among the five populationdensity strata within each age band. The population-density strata all showed some decline in daily use from 1980 through about 1992, an increase from 1992 through 1995, a leveling for a couple of years, then a decline from about 2003 through 2007. Since 2007 (2005 in the case of the rural areas), however, there has been some upward trending in daily marijuana use among the 19- to 22 -year-olds across all populationdensity strata but less among the older strata. The differences among the age groups likely reflect cohort differences, at least in part.
- Synthetic marijuana, such as "K-2" and "Spice," was added to the study in 2011, so only four years of data exist so far. The farm-country stratum had the highest annual prevalence initially in the two youngest age bands, but their use fell sharply and significantly in the years since. In 2014 the annual prevalence rate ranges from $1.2 \%$ to $2.5 \%$. In fact, use in all community size strata has declined among the 19- to 22-yearolds. In the older age groups, use started from a lower level and generally has fallen in all community size strata as well.
- In general, there have not been large differences in $\boldsymbol{L S D}$ use among young adults as a function of community size since 1983. Among 19- to 22-year-olds (the young adult age group with by far the highest rates of LSD use prior to 2003), use in communities of all sizes declined appreciably in the early to mid-1980s, particularly in the urban strata, eliminating modest prior differences by 1984. From around 1989 through 1996, there was some increase in LSD use in all population-density strata among 19- to 22-yearolds, with the most rural areas generally continuing to have the lowest prevalence of use. After 1997, there was some decline in LSD use in all community-size strata among 19to 22-year-olds, followed by a sharp decline occurring from 2001 to 2003, with all strata moving in concert. The 23- to 26 -year-old respondents had some modest increases after 1989 in all community-size strata, though the increases had virtually ended by 1995. Since about 1999, there have been declines in all strata, with the largest decline occurring from 2001-2003 in most strata. In Volume I in this series, we discussed how a sharp decline in supply may be responsible for the sizable decline in use among all ages after 2001. In the oldest age group, LSD use has remained very low and for the most part quite stable, but also with some decline after 2001. There has been very little difference among the community size strata.
- The use of hallucinogens other than LSD, taken as a class, has also shown considerably higher rates in the youngest age band compared to the two older ones, suggesting a consistent sharp falloff in use with age-an age effect. (The drug most often reported in this general class has been psilocybin or shrooms, as is true among $12^{\text {th }}$ graders as well.) Use of this general class of drugs fell in communities of all sizes among young adults between 1980 and about 1988. Then there was a leveling of use for a few years, followed by an extended increase in use among all community-size strata in the 19- to 22 -year-old age band. By 2003 the rates attained by each stratum exceeded those
originally observed in 1980; there have been declines since then, and very large cities (which had attained the highest usage rates) were the last to show the decline. The 23- to 26-year-old group showed slightly rising rates of use between 1998 and 2004, followed by a leveling. The sharpest increase occurred in the very large cities in 1999 and 2000 and again in 2010. The 27- to 30 -year-olds have generally had low rates of use, and the trend lines have been very flat with only minor community-size stratum differences, until 2001 when all strata, especially the very large cities, began to increase before leveling after 2005. All three age groups have shown higher rates of use than previously observed-since 1994 for 19- to 21-year-olds, since about 2000 for 22- to 26-year-olds, and since about 2002 for 27- to 30-year-olds-in part reflecting a cohort effect in the use of these drugs, but also reflecting the change in question wording to include shrooms as an example. The farm/country stratum has generally had the lowest prevalence among the three strata and the very large cities the highest.
- Salvia (or salvia divinorum) use was first measured in 2009 and has shown somewhat irregular trend lines since then. The overall picture is clearly one of decreasing use since 2009 in the youngest age group and since 2010 in the middle age group. Annual prevalence rates are now very low for this drug-from less than $1.3 \%$ to $2.5 \%$ among 19 - to 22 -year-olds, and from $0.4 \%$ to $1.6 \%$ among the 23 - to 26 -year-olds. The case counts are too low to make reliable estimates of change by population density strata.
- Ecstasy (MDMA) use was first measured in 1989, and since then has shown the largest increase of any drug among young adults. Among 19- to 22-year-olds use in 1989 was highest in the very large cities ( $5 \%$ annual prevalence), but prevalence declined in all population-density strata between 1989 and 1994 (to $1.6 \%$ or less). By 1998, use had begun to increase in all community-size strata within this age band, except in the farm/country stratum. The farm/country stratum moved up sharply in 1999, but then the three most urban strata jumped sharply in 2000, opening a fair gap in use with large and very large cities having rates nearly twice as high as any of the other strata in 2002. All community-size strata showed large declines in ecstasy use since 2000 or 2001, which lasted through 2004, narrowing the differences among them. In 2011 ecstasy use in the very large cities rose to nearly $10 \%$ annual prevalence and has stayed there since thennearly twice as high as any of the other population density strata. The two older strata have since shown an increase in use in the very large cities, again giving them rates considerably higher than the other sizes of community. Among 23- to 26-year-olds, use began to increase a little later, and again the most urban stratum showed the most increase, particularly in 2000; but use began to decline after 2001 (in the urban areas) or 2002 (in the rural and small town strata), which had the effect of narrowing the differences among strata. The recent increase in the very large cities has again opened the differences. Among the 23- to 26 -year-olds, all population-density strata continued to decline, or at least remain level, through 2003, and then stayed level through 2008. As with the younger age group, ecstasy use rose sharply in the very large cities in 2012 to roughly 8\%, where it remained in 2013 before increasing further to $9.5 \%$ in 2014. Considerably less increase in ecstasy use occurred among 27- to 30-year-olds, though there was some increase in the largest cities starting after 1996 and in the large and medium-sized cities after 1999. From 1997 through 2005 the very large cities stood out as having the highest rates of ecstasy use, but the differences were modest through 2012.

In 2013 the very large cities were the only ones to show any increase in use in this age band and in 2014 they showed a further and significant increase to $6.0 \%$ annual prevalence. It thus appears that over the past several years ecstasy use has made a comeback among young adults in the country's very large cities.

Ecstasy use trends tell an interesting story. In very large cities use peaked in all three age bands in 2000 and then began to decline. The medium-sized cities were beginning to level or decline by 2001 in the two younger age bands. The small town and farm/country strata peaked in 2001 in all age groups. These data support our belief, based on schoollevel analyses of secondary schools, that the presence of this drug was still diffusing geographically-in this case, from more urban to more rural areas-and, were it not for this continued diffusion, ecstasy use would actually have begun to decline nationally a year earlier. The data from $12^{\text {th }}$ graders on perceived risk provide the clue as to the most likely cause of this turnaround; they showed a large jump in the level of perceived risk associated with ecstasy use from 2000 through 2003. Unlike most other drugs discussed here, the pattern of change since the mid-1990s appears to reflect secular trends rather than cohort effects, with all age groups moving largely in parallel-that is, until the recent resurgence of use in the very large cities which has been staggered across the age bands consistent with a cohort effect.

- In the early 1980s, cocaine use was positively correlated with population density, with the highest use in the very large cities. The important drop in cocaine use that began after 1986 slowed considerably after 1992 or 1993 in all three age strata and in communities of all sizes, by which time the positive association with population density had been virtually eliminated. Among 19- to 22-year-olds there was a sustained increase in cocaine use among all community-size strata after about 1993 or 1994, and among 23 - to 26 -year-olds after about 1998. There was some decline in the mid-2000s in all strata except large cities, which showed a decline in subsequent years. As just stated, usage rates among the population-density strata tended to converge considerably during the period of decline; this convergence remains, except for the very large cities, which since 2007 have shown rates of cocaine use somewhat higher than the less densely populated areas in all three age bands. In the 27 - to 30 -year-old age group, a gradual increase in use emerged in nearly all population-density strata after 2000, no doubt reflecting a cohort effect working its way up the age spectrum. By 2004, all of the strata in the oldest age band leveled or declined from their peak rates; the single exception was very large cities, where use remained relatively high until 2010, when it declined a bit. In 2014 the very large cities had the highest annual prevalence across all three age groups (7.9\%).
- Crack use among all age groups peaked in 1987 or 1988 (strongly suggesting a secular trend at work at that time) and then, after declining appreciably, bottomed out in all population-density strata for several years. Use reported in these young adult samples at all three age levels has borne practically no systematic association with community size, and for the most part the strata have all tended to move in parallel. In 2014, annual prevalence was at or below $1.7 \%$ across all strata in the older two age bands, and among 19 - to 22 -year-olds use was at or below $0.9 \%$ in all strata. In the youngest age band of young adults crack use has tended to be highest in the farm-country stratum.
- Amphetamine use shows virtually no differences associated with urbanicity in any of the three age groups, and this has generally been true since 1983. The trend curves were highly similar for all levels of population density within each age stratum, with the single exception that among the 23- to 26 -year-olds the three urban strata exhibited the greatest increase in amphetamine use of the five strata after 2008; they were joined by the small town stratum in 2012, leaving the farm/country stratum with the lowest rate of use. Also, the 19- to 22 -year-olds in the very large cities showed a sharp increase in use in 2013 and 2014, with annual prevalence reaching $14.6 \%$ in 2014, compared to 8.0 to $10.1 \%$ in the other age strata.
- Differences in use of crystal methamphetamine (ice) as a function of population density have been quite erratic across time in all four age groups, particularly in the earlier years of collecting such data, due to limited sample sizes. Since 2007, reported rates of use have been relatively low in all strata and age bands. Since the late 1990s, the farm/country and small town segments have tended to have the highest rates of crystal methamphetamine use in the two older age bands.
- The use of methamphetamine in any form has been measured only since 1999. In general, the farm/country stratum has had higher than average rates of use in the two youngest age groups, and more recently in the oldest age band between 2010 and 2013; otherwise there has been little systematic difference. Among 19- to 22-year-olds, all community-size strata have shown substantial declines in use since 2003 or 2004, reaching very low levels by 2007 and thereafter. Use has declined some over the same interval among 23- to 26 -year-olds. Among 27- to 30 -year-olds use generally declined from 2002 to 2006 in all population-density strata; after 2009, this group showed a slight rebound in use, particularly in the farm-country stratum.
- Bath salts were added to the study in 2012, so trends are available for only two years. They showed a high rate of use ( $6.5 \%$ annual prevalence) in 2012 in the farm/country stratum among 19- to 22-year-olds, but a significant decline in 2013 such that there are now practically no differences among the different levels of population density. Among 23- to 26-year-olds, use started highest in 2012 in small towns and farm/country areas, but dropped there the next year. Usage rates are very low among the two older age bands with little variability by population density. These findings suggest that this type of drug use tended to be concentrated among younger people and in more rural areas, but also that bath salts are no longer as great a threat to public health.
- Note: Methaqualone was dropped from the study in 1990. Methaqualone use, which in 1981 was strongly positively associated with population density, dropped to annual prevalence rates of $0.8 \%$ or below in all community-size strata for all three age bands by 1989. For that reason, its use is no longer measured in MTF.
- Unlike methaqualone, sedatives (barbiturates) have never shown much variation by population density, at least as far back as 1980. This remains true in all three age bands, with the single exception that among 19- to 22 -year-olds use in the farm country areas has broken out as highest since 2011. Otherwise the trends have been similar within each age band.
- Tranquilizer use among young adults has also had little or no association with population density over the time interval under study. Like sedatives (barbiturates), there was an earlier period of decline, staggered inflection points, a long period of gradual increase, and then a leveling staggered up the age band from about 2003-2005.
- From 1980 to 1995, annual heroin prevalence was less than $1.0 \%$-usually much lessin all population-density strata for all three age bands. After 1994, use among 19- to 22-year-olds in all community-size strata rose and reached $1.0 \%$ in the three most urban strata by 1998. In fact, in the very large cities, it reached $2.1 \%$ in 2000 (vs. $0.3-0.6 \%$ in the other strata). Use levels have been lower among 23- to 26-year-olds and lower still among 27- to 30 -year-olds, making it difficult to discern systematic differences among the population-density strata in those age bands. In 2014 the annual prevalence of heroin was $0.8 \%$ or lower in all community-size strata for all three young adult age bands, and it was much lower in most. Over the past four or five years for nearly all communitysize areas, there was some increase in use among the 23- to 26-year-olds (particularly in 2010).
- The annual use of narcotics other than heroin had some positive association with population density among 19- to 22-year-olds through the early 1990s; however, it has shown rather little association since then. Use of narcotics other than heroin increased substantially in all community-size strata after 1993 in the case of 19- to 22-year-olds, after about 1996 in the case of 23- to 26 -year-olds, and after about 1998 in the case of 27- to 30 -year-olds; however, no systematic differentiation by community size was evident during those periods of increasing use. Clearly a cohort effect was at work, and the increasing use of these drugs was quite widespread. Use leveled off since about 2004 in the youngest age band, 2006 in the middle age band, and 2007 in the oldest age band.
- Unfortunately, sample sizes for two of the narcotic drugs of particular interest, OxyContin and Vicodin, are not sufficient to estimate population-density differences or trends with a reasonable degree of accuracy.
- The absolute levels of inhalant use have remained low in these age groups, particularly above age 22. However, during the mid- to late 1980s, there was a gradual increase in use among 19- to 22 -year-olds in all community-size strata. No strong or consistent association with population density has appeared, though the very large cities have not infrequently had higher rates than the other areas among 19- to 22-year-olds, particularly in the period 1998 through 2000. Among both the 19- to 22-year-olds and the 23- to 26-year-olds, there has been some falloff in inhalant use since the late 1990s in all population-density levels.
- There have been few differences as a function of population density in the annual and 30-day prevalence of drinking alcohol among 19- to 22 -year-olds since data were first available in 1980, except that the farm/country stratum has tended to have lower-thanaverage use. In the two older age bands, however, there has been a fairly consistent positive correlation between population density and use of alcohol in the past 30 daysthough not a very strong one. So, for example, in 2014 , $58 \%$ of 27 - to 30 -year-olds in the farm/country stratum had alcohol in the prior 30 days, compared to $84 \%$ of those in
very large cities. Trends have been fairly parallel for all strata in all age bands. There have also been no consistent trend differences in current daily drinking associated with urbanicity in any of the three age bands.
- For occasions of heavy drinking, all community-size strata have been fairly close across time at all three age levels, with two exceptions: The farm/country stratum has fairly consistently shown a slightly lower rate of binge drinking in the youngest two age bands, and such drinking has tended to be highest in the very large cities in the two upper age bands (and more often than not in the oldest age band). However, in the upper two age bands, the differences among the communities of different sizes have gradually expanded since about 2001, when there were practically no differences. So, for example, in 2014 among 23- to 26 -year-old respondents, $28 \%$ in the farm/country stratum indicated that they engaged in occasions of heavy drinking, versus $37 \%$ in the very large cities.
- Cigarette smoking has generally been negatively associated with population density in all three age strata, without much evidence of differential trends related to population density. There is one exception: Among 19- to 22-year-olds, all smoking prevalence measures rose from 1997 through 1999 in the farm/country and small town strata, while in most other strata they remained level. The differences in 1999 were most striking for half-pack-a-day smoking among the 19- to 22-year-olds-24\% for farm/country, $19 \%$ for small town, $15 \%$ for both medium-sized and large cities, and $10 \%$ for very large cities. Compare this with 1985, when there was virtually no difference in half-pack-aday smoking rates among these strata (all were at $18 \%$ or $19 \%$ ). Thus, smoking among those in their early 20 s became more concentrated in the nonurban populations. In fact, among 19- to 22 -year-olds, the farm/country stratum has usually had the highest rate of daily smoking since 1986, and the small town stratum has generally ranked second since then. As smoking has declined in all strata in the youngest group, this difference has diminished, though not in the older two age bands. Among the two older age groups, the farm/country stratum has been highest more often than not. Among 19- to 22-year-olds, there has been a decline in 30-day prevalence in most population density strata since about 2000 or 2001, and among 23- to 26 -year-olds since 2005. Continuing declines in smoking among $12^{\text {th }}$ graders leads us to predict still further declines among young adults as well, given the strength of cohort effects on smoking rates.


## TABLE 5-1

## Trends in Lifetime Prevalence of Various Types of Drugs

## among Respondents of Modal Ages 19-28

(Entries are percentages.)



| Any Illicit Drug ${ }^{\text {a }}$ | 70.5 | 69.9 | 67.9 | 66.4 | 64.5 | 62.2 | 60.2 | 59.6 | 57.5 | 57.4 | 56.4 | 56.7 | 57.0 | 57.4 | 58.2 | 58.1 | 59.0 | 60.2 | 60.5 | 60.4 | 59.7 | 59.8 | 59.3 | 59.3 | 58.4 | 59.1 | 58.9 | 60.0 | 62.2 | +2.3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Any Illicit Drug other than Marijuana ${ }^{\text {a }}$ | 48.4 | 47.0 | 44.6 | 42.7 | 40.8 | 37.8 | 37.0 | 34.6 | 33.4 | 32.8 | 31.0 | 30.5 | 29.9 | 30.2 | 31.3 | 31.6 | 32.8 | 33.9 | 35.2 | 34.0 | 34.8 | 34.2 | 34.7 | 32.8 | 33.3 | 33.2 | 32.8 | 34.0 | 37.3 | +3.3 ss |
| Marijuana | 66.5 | 66.0 | 63.8 | 62.8 | 60.2 | 58.6 | 56.4 | 55.9 | 53.7 | 53.6 | 53.5 | 53.8 | 54.4 | 54.6 | 55.1 | 55.7 | 56.8 | 57.2 | 57.4 | 57.0 | 56.7 | 56.7 | 55.9 | 56.0 | 55.9 | 56.3 | 56.5 | 57.1 | 57.5 | +0.4 |
| Inhalants ${ }^{\text {b }}$ | 12.3 | 12.7 | 12.6 | 13.2 | 12.5 | 13.4 | 13.5 | 14.1 | 13.2 | 14.5 | 14.1 | 14.1 | 14.2 | 14.2 | 14.3 | 12.8 | 12.4 | 12.2 | 11.6 | 10.3 | 10.9 | 9.1 | 9.5 | 8.9 | 7.9 | 7.2 | 7.2 | 6.5 | 6.7 | +0.2 |
| Nitrites ${ }^{\text {c }}$ | 2.6 | 6.9 | 6.2 | - | 1.9 | 1.4 | 1.2 | 1.3 | 1.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Hallucinogens ${ }^{\text {d,y }}$ | 18.5 | 17.1 | 17.0 | 15.9 | 16.1 | 15.7 | 15.7 | 15.4 | 15.4 | 16.1 | 16.4 | 16.7 | 17.4 | 18.0 | 18.4 | 18.3 | 19.6 | 19.7 | 19.3 | 17.6 | 17.2 | 16.0 | 14.8 | 14.2 | 13.9 | 13.0 | 12.2 | 12.4 | 11.9 | -0.5 |
| LSD ${ }^{\text {y }}$ | 14.6 | 13.7 | 13.8 | 12.7 | 13.5 | 13.5 | 13.8 | 13.6 | 13.8 | 14.5 | 15.0 | 15.0 | 15.7 | 16.2 | 16.4 | 16.0 | 15.1 | 14.6 | 13.4 | 11.2 | 10.1 | 9.6 | 8.1 | 7.3 | 7.2 | 6.1 | 6.2 | 6.3 | 6.6 | +0.3 |
| Hallucinogens other than LSD ${ }^{\text {d,y }}$ | 12.6 | 11.4 | 10.6 | 9.4 | 9.1 | 8.4 | 8.0 | 7.6 | 7.4 | 7.8 | 7.9 | 8.4 | 9.4 | 9.3 | 9.9 | 12.0 | 15.0 | 16.4 | 15.6 | 15.4 | 14.9 | 14.1 | 13.0 | 13.0 | 12.6 | 12.1 | 11.1 | 11.4 | 10.8 | -0.7 |
| PCP ${ }^{\text {e }}$ | 8.4 | 4.8 | 5.0 | - | 2.5 | 3.1 | 2.0 | 1.9 | 2.0 | 2.2 | 1.9 | 2.4 | 2.7 | 2.3 | 2.3 | 3.1 | 2.5 | 3.0 | 2.7 | 2.0 | 2.4 | 2.1 | 2.2 | 1.6 | 1.6 | 1.7 | 1.1 | 1.4 | 0.6 | -0.8 |
| Ecstasy (MDMA) ${ }^{\text {¢ }}$ | - | - | - | 3.3 | 3.7 | 3.2 | 3.9 | 3.8 | 3.8 | 4.5 | 5.2 | 5.1 | 7.2 | 7.1 | 11.6 | 13.0 | 14.6 | 15.3 | 16.0 | 14.9 | 14.4 | 13.1 | 13.1 | 11.5 | 12.3 | 11.3 | 11.4 | 11.6 | 11.4 | -0.3 |
| Cocaine | 32.0 | 29.3 | 28.2 | 25.8 | 23.7 | 21.0 | 19.5 | 16.9 | 15.2 | 13.7 | 12.9 | 12.0 | 12.3 | 12.8 | 12.7 | 13.1 | 13.5 | 14.7 | 15.2 | 14.3 | 15.2 | 14.7 | 14.8 | 13.9 | 13.6 | 12.5 | 11.9 | 12.2 | 11.7 | -0.6 |
| Crack ${ }^{9}$ |  | 6.3 | 6.9 | 6.1 | 5.1 | 4.8 | 5.1 | 4.3 | 4.4 | 3.8 | 3.9 | 3.6 | 3.8 | 4.3 | 4.6 | 4.7 | 4.3 | 4.7 | 4.2 | 4.1 | 4.4 | 3.9 | 4.3 | 3.3 | 3.6 | 2.9 | 2.7 | 2.6 | 2.1 | -0.5 |
| Other Cocaine ${ }^{\text {h }}$ | - | 28.2 | 25.2 | 25.4 | 22.1 | 19.8 | 18.4 | 15.1 | 13.9 | 12.4 | 11.9 | 11.3 | 11.5 | 11.8 | 11.7 | 12.1 | 12.8 | 13.5 | 14.4 | 13.3 | 14.4 | 14.0 | 13.9 | 13.5 | 13.1 | 12.2 | 11.8 | 11.8 | 11.6 | -0.2 |
| Heroin | 1.3 | 1.3 | 1.1 | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 | 1.1 | 1.3 | 1.3 | 1.6 | 1.7 | 1.8 | 2.0 | 1.8 | 1.9 | 1.9 | 1.7 | 1.9 | 1.6 | 1.9 | 1.6 | 1.8 | 1.7 | 1.6 | 1.6 | 1.4 | -0.1 |
| With a Needle ${ }^{\text {i }}$ | - | - | - | - | - | - | - | - | - | 0.4 | 0.4 | 0.3 | 0.4 | 0.6 | 0.4 | 0.6 | 0.4 | 0.5 | 0.4 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.8 | 0.7 | 0.5 | 1.0 | 0.7 | -0.3 |
| Without a Needle ${ }^{\text {i }}$ | - | - | - | - | - | - | - | - | - | 1.0 | 1.4 | 1.5 | 1.7 | 1.9 | 2.1 | 2.1 | 1.8 | 2.2 | 2.1 | 1.8 | 2.4 | 1.9 | 2.1 | 1.9 | 1.8 | 1.6 | 1.7 | 1.8 | 1.2 | -0.6 |
| Narcotics other than Heroin ${ }^{\mathrm{j}, \mathrm{k}}$ | 10.7 | 10.6 | 9.8 | 9.6 | 9.4 | 9.3 | 8.9 | 8.1 | 8.2 | 9.0 | 8.3 | 9.2 | 9.1 | 9.5 | 10.0 | 11.5 | 13.9 | 16.8 | 17.6 | 17.8 | 18.7 | 18.8 | 19.5 | 18.5 | 19.0 | 18.2 | 17.6 | 17.4 | 16.3 | -1.1 |
| Amphetamines, Adjusted ${ }^{\text {j, }}$ | 32.3 | 30.8 | 28.8 | 25.3 | 24.4 | 22.4 | 20.2 | 18.7 | 17.1 | 16.6 | 15.3 | 14.6 | 14.3 | 14.1 | 15.0 | 15.0 | 14.8 | 15.2 | 15.9 | 14.6 | 15.6 | 15.3 | 14.6 | 14.9 | 16.1 | 16.5 | 17.4 | 18.8 | 18.7 | -0.1 |
| Methamphetamine ${ }^{\text {i }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.8 | 9.3 | 9.0 | 9.1 | 8.9 | 9.0 | 8.3 | 7.3 | 6.7 | 6.3 | 4.7 | 4.3 | 3.2 | 3.5 | 3.1 | 2.3 | -0.8 |
| Crystal Methamphetamine (Ice) ${ }^{\text {i }}$ | - | - | - | - | 2.5 | 2.9 | 2.2 | 2.7 | 2.5 | 2.1 | 3.1 | 2.5 | 3.4 | 3.3 | 3.9 | 4.0 | 4.1 | 4.7 | 4.7 | 4.4 | 4.7 | 3.7 | 3.6 | 3.4 | 2.8 | 3.1 | 2.6 | 2.8 | 1.7 | -1.1 s |

(Table continued on next page.)

## TABLE 5-1 (cont.)

## Trends in Lifetime Prevalence of Various Types of Drugs

## among Respondents of Modal Ages 19-28

Crystal Methamphetamine (Ice)

## 2013-

2014
change Approximate Weighted $N=6,900 \quad 6,800 \quad 6,700 \quad 6,600 \quad 6,700 \quad 6,600 \quad 6,800 \quad 6,700 \quad 6,500 \quad 6,400 \quad 6,300 \quad 6,400 \quad 6,200 \quad 6,000 \quad 5,700 \quad 5,800 \quad 5,300 \quad 5,300 \quad 5,700 \quad 5,400 \quad 5,100 \quad 4,800 \quad 4,900 \quad 4,900 \quad 4,900 \quad 4,600 \quad 4,600 \quad 4,400 \quad 4,200$

| Sedatives (Barbiturates) ${ }^{\text {j,u }}$ | 11.1 | 9.7 | 8.9 | 7.9 | 8.7 | 8.2 | 7.4 | 6.5 | 6.4 | 6.7 | 6.6 | 6.5 | 6.9 | 7.4 | 8.1 | 7.8 | 8.0 | 8.7 | 9.7 | 10.0 | 9.5 | 9.8 | 10.6 | 9.5 | 8.6 | 7.9 | 7.2 | 9.5 | 9.0 | -0.4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sedatives, Adjusted ${ }^{\text {j.m }}$ | 16.7 | 15.0 | 13.2 | 12.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methaqualone ${ }^{\text {j }}$ | 13.1 | 11.6 | 9.7 | 8.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tranquilizers ${ }^{\text {d,j }}$ | 17.6 | 16.5 | 15.1 | 13.5 | 12.9 | 11.8 | 11.3 | 10.5 | 9.9 | 9.7 | 9.3 | 8.6 | 9.6 | 9.6 | 10.5 | 11.9 | 13.4 | 13.8 | 14.9 | 14.5 | 15.0 | 14.5 | 15.8 | 13.8 | 14.3 | 13.8 | 13.3 | 13.2 | 12.5 | -0.7 |
| Alcohol ${ }^{\text {n }}$ | 94.8 | 94.9 | 94.8 | 94.5 | 94.3 | 94.1 | 93.4 | 92.1 | 91.2 | 91.6 | 91.2 | 90.7 | 90.6 | 90.2 | 90.7 | 89.9 | 90.2 | 89.3 | 89.4 | 89.1 | 88.9 | 87.9 | 88.4 | 87.9 | 87.5 | 87.4 | 86.5 | 86.2 | 86.3 | +0.2 |
| Been Drunk ${ }^{\circ}$ | - | - | - | - | - | 82.9 | 81.1 | 81.4 | 80.7 | 82.1 | 80.7 | 81.4 | 79.8 | 81.6 | 80.4 | 81.1 | 81.2 | 80.9 | 80.1 | 79.9 | 80.9 | 80.1 | 80.1 | 78.2 | 79.0 | 78.9 | 78.9 | 77.4 | 78.3 | +0.9 |
| Flavored Alcoholic Beverages ${ }^{\text {p }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 83.2 | 84.6 | 84.4 | 84.0 | 82.6 | 83.5 | 81.4 | 82.2 | 82.4 | 80.9 | 80.6 | -0.3 |
| Cigarettes | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Steroids ${ }^{\text {q }}$ | - | - | - | 1.1 | 1.2 | 1.7 | 1.9 | 1.5 | 1.3 | 1.5 | 1.5 | 1.4 | 1.4 | 1.9 | 1.4 | 1.4 | 1.6 | 1.8 | 1.9 | 1.8 | 1.8 | 1.7 | 1.8 | 1.8 | 1.7 | 1.3 | 1.7 | 1.2 | 1.7 | +0.5 |

Source. The Monitoring the Future study, the University of Michigan.
See footnotes following Table 5-4.

TABLE 5-2
Trends in Annual Prevalence of Various Types of Drugs among Respondents of Modal Ages 19-28
(Entries are percentages.)
$\underline{1986} \underline{1987} \underline{1988} \underline{1989} \underline{1990} \underline{1991} \underline{1992} \underline{1993} \underline{1994} \underline{1995} \underline{\underline{1996}} \underline{\underline{1997}} \underline{\underline{1998}} \underline{\underline{1999}} \underline{\underline{2000}} \underline{\underline{2001}} \underline{\underline{2002}} \underline{\underline{2003}} \underline{\underline{2004}} \underline{\underline{2005}} \underline{\underline{2006}} \underline{\underline{2007}} \underline{\underline{2008}} \underline{\underline{2009}} \underline{\underline{2010}} \underline{\underline{2011}} \underline{\underline{2012}} \underline{\underline{2013}} \underline{\underline{2014}} \underline{\underline{c h a n g e}}$


| Any Illicit Drug ${ }^{\text {a }}$ | 41.9 | 39.3 | 36.3 | 32.8 | 30.7 | 27.0 | 28.3 | 28.4 | 28.4 | 29.8 | 29.2 | 29.2 | 29.9 | 30.3 | 30.8 | 32.1 | 32.4 | 33.0 | 33.7 | 32.8 | 32.1 | 32.5 | 33.8 | 33.3 | 33.2 | 34.7 | 34.0 | 36.7 | 37.5 | +0.9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Any Illicit Drug other than Marijuana ${ }^{\text {a }}$ | 27.0 | 23.9 | 21.3 | 18.3 | 16.7 | 14.3 | 14.1 | 13.0 | 13.0 | 13.8 | 13.2 | 13.6 | 13.2 | 13.7 | 14.9 | 15.4 | 16.3 | 18.1 | 18.8 | 18.5 | 18.4 | 18.1 | 18.9 | 17.4 | 18.5 | 17.6 | 17.2 | 18.1 | 21.2 | +3.0 ss |
| Marijuana | 36.5 | 34.8 | 31.8 | 29.0 | 26.1 | 23.8 | 25.2 | 25.1 | 25.5 | 26.5 | 27.0 | 26.8 | 27.4 | 27.6 | 27.9 | 29.2 | 29.3 | 29.0 | 29.2 | 28.2 | 27.7 | 28.5 | 28.6 | 29.3 | 28.7 | 31.0 | 30.2 | 32.2 | 31.6 | -0.6 |
| Synthetic Marijuana ${ }^{\text {V }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7.4 | 5.3 | 3.2 | 1.3 | -1.9 s |
| Inhalants ${ }^{\text {b }}$ | 1.9 | 2.1 | 1.8 | 1.9 | 1.9 | 2.0 | 1.9 | 2.1 | 2.1 | 2.4 | 2.2 | 2.3 | 2.1 | 2.3 | 2.1 | 1.7 | 1.6 | 1.4 | 1.7 | 1.3 | 1.3 | 0.8 | 1.4 | 0.9 | 1.2 | 0.8 | 1.1 | 0.5 | 1.1 | +0.6 s |
| Nitrites ${ }^{\text {c }}$ | 2.0 | 1.3 | 1.0 | - | 0.4 | 0.2 | 0.1 | 0.4 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hallucinogens ${ }^{\text {d,y }}$ | 4.5 | 4.0 | 3.9 | 3.6 | 4.1 | 4.5 | 5.0 | 4.5 | 4.8 | 5.6 | 5.6 | 5.8 | 5.2 | 5.4 | 5.4 | 5.4 | 4.7 | 5.2 | 4.7 | 4.5 | 4.1 | 3.8 | 3.8 | 3.9 | 4.2 | 3.7 | 3.6 | 3.9 | 4.1 | +0.3 |
| LSD ${ }^{\text {y }}$ | 3.0 | 2.9 | 2.9 | 2.7 | 3.3 | 3.8 | 4.3 | 3.8 | 4.0 | 4.6 | 4.5 | 4.4 | 3.5 | 4.0 | 3.7 | 3.4 | 1.8 | 1.2 | 0.9 | 0.8 | 1.2 | 1.1 | 1.4 | 1.7 | 1.5 | 1.7 | 1.6 | 2.0 | 2.2 | +0.2 |
| Hallucinogens other than LSD ${ }^{\text {d,y }}$ | 2.5 | 2.1 | 1.9 | 1.8 | 1.7 | 1.7 | 1.9 | 1.9 | 2.0 | 2.5 | 2.8 | 3.1 | 3.0 | 3.0 | 3.4 | 3.5 | 4.0 | 4.9 | 4.5 | 4.2 | 3.8 | 3.6 | 3.4 | 3.3 | 3.7 | 3.2 | 2.9 | 3.2 | 3.1 | -0.1 |
| PCP ${ }^{\text {e }}$ | 0.8 | 0.4 | 0.4 | - | 0.2 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.2 | 0.5 | 0.6 | 0.6 | 0.3 | 0.6 | 0.3 | 0.3 | 0.1 | 0.6 | 0.2 | 0.3 | 0.4 | 0.1 | 0.2 | 0.3 | 0.0 | 0.2 | 0.1 | -0.1 |
| Ecstasy (MDMA) ${ }^{\text {f }}$ | - | - | - | 1.4 | 1.5 | 0.8 | 1.0 | 0.8 | 0.7 | 1.6 | 1.7 | 2.1 | 2.9 | 3.6 | 7.2 | 7.5 | 6.2 | 4.5 | 3.5 | 3.0 | 3.0 | 2.5 | 3.3 | 3.1 | 3.5 | 3.6 | 4.1 | 4.2 | 4.8 | +0.5 |
| Salvia ${ }^{\text {w }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.5 | 3.6 | 2.2 | 1.4 | 0.9 | 1.2 | +0.3 |
| Cocaine | 19.7 | 15.7 | 13.8 | 10.8 | 8.6 | 6.2 | 5.7 | 4.7 | 4.3 | 4.4 | 4.1 | 4.6 | 4.9 | 5.4 | 5.4 | 5.8 | 5.8 | 6.6 | 7.1 | 6.9 | 6.6 | 6.2 | 6.0 | 5.2 | 4.7 | 4.7 | 4.1 | 3.9 | 5.0 | +1.1 ss |
| Crack ${ }^{9}$ | 3.2 | 3.1 | 3.1 | 2.5 | 1.6 | 1.2 | 1.4 | 1.3 | 1.1 | 1.1 | 1.1 | 1.0 | 1.1 | 1.4 | 1.2 | 1.3 | 1.0 | 1.0 | 1.3 | 1.2 | 1.1 | 1.0 | 0.9 | 0.7 | 0.5 | 0.6 | 0.5 | 0.3 | 0.4 | +0.1 |
| Other Cocaine ${ }^{\text {h }}$ | - | 13.6 | 11.9 | 10.3 | 8.1 | 5.4 | 5.1 | 3.9 | 3.6 | 3.9 | 3.8 | 4.3 | 4.5 | 4.8 | 4.8 | 5.3 | 5.6 | 6.1 | 6.4 | 6.3 | 5.9 | 5.6 | 5.5 | 5.0 | 4.8 | 4.3 | 4.0 | 3.7 | 4.8 | +1.1 s |
| Heroin | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 | 0.5 | 0.2 | 0.4 | 0.3 | 0.4 | 0.4 | 0.3 | 0.5 | 0.6 | 0.5 | 0.5 | 0.5 | 0.6 | 0.4 | -0.2 |
| With a Needle ${ }^{\text {i }}$ | - | - | - | - | - | - | - | - | - | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | * | 0.3 | * | * | 0.1 | 0.2 | 0.3 | 0.1 | 0.1 | 0.1 | 0.2 | 0.4 | 0.3 | 0.3 | 0.2 | -0.1 |
| Without a Needle ${ }^{\text {i }}$ | - | - | - | - | - | - | - | - | - | 0.3 | 0.4 | 0.4 | 0.6 | 0.6 | 0.5 | 0.9 | 0.2 | 0.4 | 0.3 | 0.4 | 0.5 | 0.3 | 0.4 | 0.6 | 0.4 | 0.2 | 0.4 | 0.7 | 0.3 | -0.4 |
| Narcotics other than Heroin ${ }^{\text {j,k }}$ | 3.1 | 3.1 | 2.7 | 2.8 | 2.7 | 2.5 | 2.5 | 2.2 | 2.5 | 3.0 | 2.9 | 3.3 | 3.4 | 3.8 | 4.1 | 5.0 | 7.1 | 8.5 | 9.0 | 8.7 | 9.1 | 8.7 | 9.1 | 8.4 | 9.0 | 7.9 | 7.3 | 7.0 | 6.3 | -0.7 |
| OxyContin ${ }^{\text {j,r }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.9 | 2.6 | 3.1 | 3.1 | 3.1 | 2.9 | 3.9 | 5.2 | 3.2 | 2.8 | 2.3 | 2.8 | 2.5 | -0.3 |
| Vicodin ${ }^{\text {j,r }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.2 | 8.6 | 8.9 | 9.3 | 9.1 | 8.9 | 9.1 | 8.9 | 7.8 | 7.1 | 6.3 | 6.2 | 4.8 | -1.3 s |
| Amphetamines, Adjusted ${ }^{\text {j, }}$ | 10.6 | 8.7 | 7.3 | 5.8 | 5.2 | 4.3 | 4.1 | 4.0 | 4.5 | 4.6 | 4.2 | 4.6 | 4.5 | 4.7 | 5.4 | 5.8 | 5.9 | 5.8 | 6.2 | 5.1 | 5.6 | 5.6 | 5.3 | 6.0 | 7.1 | 7.2 | 7.8 | 7.5 | 8.0 | +0.6 |
| Ritalin ${ }^{\text {j,r }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.9 | 2.9 | 2.7 | 2.5 | 2.6 | 2.4 | 2.4 | 1.7 | 1.7 | 1.5 | 1.6 | 2.0 | 1.6 | -0.4 |
| Adderall ${ }^{\text {j,r }}$, | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.8 | 7.0 | 6.6 | 7.4 | 7.0 | 7.8 | +0.9 |
| Provigil ${ }^{\text {, },}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.5 | 0.5 | 0.3 | - | - | - | - |
| Methamphetamine ${ }^{\text {i }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.8 | 2.5 | 2.8 | 2.5 | 2.7 | 2.8 | 2.4 | 1.9 | 1.5 | 1.0 | 0.9 | 0.7 | 0.5 | 1.0 | 0.6 | 0.5 | -0.1 |
| Crystal Methamphetamine (Ice) ${ }^{\text {i }}$ | - | - | - | - | 0.4 | 0.3 | 0.4 | 0.8 | 0.9 | 1.2 | 0.9 | 0.9 | 1.1 | 0.9 | 1.2 | 1.1 | 1.4 | 1.3 | 1.5 | 1.6 | 1.1 | 1.1 | 0.8 | 0.8 | 0.5 | 0.5 | 0.6 | 0.8 | 0.3 | -0.5 |

[^45]
## TABLE 5-2 (cont.)

## Trends in Annual Prevalence of Various Types of Drugs

among Respondents of Modal Ages 19-28
(Entries are percentages.)



| Bath Salts (synthetic stimulants) ${ }^{\circ}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.5 | 0.4 | 0.4 | 0.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sedatives (Barbiturates) ${ }^{\text {j,u }}$ | 2.3 | 2.1 | 1.8 | 1.7 | 1.9 | 1.8 | 1.6 | 1.9 | 1.8 | 2.1 | 2.2 | 2.4 | 2.5 | 2.8 | 3.4 | 3.7 | 3.9 | 3.9 | 4.4 | 4.2 | 3.9 | 4.2 | 4.7 | 3.8 | 3.3 | 3.2 | 2.7 | 3.4 | 3.2 | -0.3 |
| Sedatives, Adjusted ${ }^{\text {j,m }}$ | 3.0 | 2.5 | 2.1 | 1.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methaqualone ${ }^{\text {j }}$ | 1.3 | 0.9 | 0.5 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tranquilizers ${ }^{\text {d,j }}$ | 5.4 | 5.1 | 4.2 | 3.7 | 3.7 | 3.5 | 3.4 | 3.1 | 2.9 | 3.4 | 3.2 | 3.1 | 3.8 | 3.7 | 4.6 | 5.5 | 7.0 | 6.8 | 7.4 | 6.7 | 6.5 | 7.1 | 6.8 | 6.4 | 6.3 | 5.9 | 5.3 | 5.4 | 4.8 | -0.6 |
| Rohypnol ${ }^{\text {i }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.3 | 0.5 | 0.1 | 0.1 | 0.2 | 0.3 | 0.2 | 0.1 | - | - | - | - | - | - |
| GHB ${ }^{\text {x }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.8 | 0.6 | 0.5 | 0.3 | 0.2 | 0.4 | 0.3 | 0.2 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.0 |
| Ketamine ${ }^{\text {x }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.2 | 0.9 | 0.6 | 0.5 | 0.5 | 0.3 | 0.4 | 0.5 | 0.8 | 0.5 | 0.8 | 0.5 | 0.4 | -0.1 |
| Alcohol ${ }^{\text {n }}$ | 88.6 | 89.4 | 88.6 | 88.1 | 87.4 | 86.9 | 86.2 | 85.3 | 83.7 | 84.7 | 84.0 | 84.3 | 84.0 | 84.1 | 84.0 | 84.3 | 84.9 | 83.3 | 84.4 | 83.8 | 84.4 | 84.0 | 83.6 | 83.8 | 82.7 | 83.5 | 82.5 | 82.5 | 82.3 | -0.1 |
| Been Drunk ${ }^{\circ}$ | - | - | - | - | - | 62.0 | 60.9 | 61.1 | 58.8 | 61.6 | 59.9 | 63.2 | 59.6 | 63.2 | 60.6 | 63.1 | 61.8 | 62.9 | 63.8 | 63.5 | 65.7 | 65.8 | 66.0 | 65.5 | 64.8 | 64.0 | 64.6 | 63.1 | 63.5 | +0.5 |
| Flavored Alcoholic Beverages ${ }^{p}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 62.7 | 58.4 | 58.5 | 58.9 | 58.3 | 57.0 | 52.0 | 56.3 | 54.8 | 54.1 | 55.4 | +1.3 |
| Alcoholic Beverages containing Caffeine ${ }^{1, t}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 28.1 | 36.7 | 36.9 | 35.0 | -1.9 |
| Cigarettes | 40.1 | 40.3 | 37.7 | 38.0 | 37.1 | 37.7 | 37.9 | 37.8 | 38.3 | 38.8 | 40.3 | 41.8 | 41.6 | 41.1 | 40.9 | 41.1 | 39.1 | 38.6 | 39.0 | 39.1 | 36.9 | 36.2 | 35.0 | 33.9 | 33.0 | 31.5 | 29.8 | 29.8 | 27.0 | -2.8 ss |
| Small Cigars ${ }^{\circ}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 19.2 | 18.0 | 18.4 | 18.6 | +0.1 |
| Tobacco using a Hookah ${ }^{\circ}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20.1 | 19.1 | 20.4 | 23.3 | +2.9 s |
| Dissolvable Tobacco ${ }^{\text {' }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.3 | 0.6 | 0.3 | 0.5 | +0.2 |
| Snus ${ }^{1}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.1 | 5.7 | 4.8 | 4.8 | 0.0 |
| Steroids ${ }^{\text {a }}$ | - | - | - | 0.5 | 0.3 | 0.5 | 0.4 | 0.3 | 0.4 | 0.5 | 0.3 | 0.5 | 0.4 | 0.6 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.3 | 0.7 | 0.4 | 0.7 | 0.8 | 0.2 | 0.4 | 0.5 | 0.7 | +0.2 |

Source. The Monitoring the Future study, the University of Michigan
See footnotes following Table 5-4.

## TABLE 5-3

## Trends in 30-Day Prevalence of Various Types of Drugs <br> among Respondents of Modal Ages 19-28

(Entries are percentages.)
$\underline{1986} \underline{1987} \underline{1988} \underline{1989} \underline{1990} \underline{1991} \underline{1992} \underline{1993} \underline{1994} \underline{1995} \underline{1996} \underline{1997} \underline{1998} \underline{1999} \underline{2000} \underline{2001} \underline{2002} \underline{2003} \underline{2004} \underline{\underline{2005}} \underline{\underline{2006}} \underline{\underline{2007}} \underline{\underline{2008}} \underline{2009} \underline{2010} \underline{2011} \quad \underline{2012} \underline{2013} \underline{2014} \underline{c h a n g e}$ Approximate Weighted $N=6,900 \quad 6,800 \quad 6,7006,600 \quad 6,700 \quad 6,600 \quad 6,800 \quad 6,700 \quad 6,500 \quad 6,400 \quad 6,300 \quad 6,400 \quad 6,200 \quad 6,000 \quad 5,700 \quad 5,800 \quad 5,300 \quad 5,300 \quad 5,700 \quad 5,400 \quad 5,100 \quad 4,800 \quad 4,900 \quad 4,900 \quad 4,900 \quad 4,600 \quad 4,600 \quad 4,400 \quad 4,200$

| Any llicit Drug ${ }^{\text {a }}$ | 25.8 | 23.4 | 20.5 | 17.7 | 15.9 | 15.1 | 14.8 | 14.9 | 15.3 | 15.8 | 15.8 | 16.4 | 16.1 | 17.1 | 18.1 | 18.8 | 18.9 | 19.9 | 19.1 | 18.6 | 18.5 | 18.9 | 19.3 | 19.8 | 18.9 | 20.6 | 19.9 | 21.6 | 22.3 | +0.7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Any Illicit Drug other than Marijuana ${ }^{\text {a }}$ | 13.0 | 10.7 | 9.5 | 7.5 | 6.0 | 5.4 | 5.5 | 4.9 | 5.3 | 5.7 | 4.7 | 5.5 | 5.5 | 6.0 | 6.4 | 7.0 | 7.7 | 8.3 | 8.5 | 8.2 | 8.1 | 8.6 | 8.9 | 8.5 | 8.6 | 8.4 | 7.8 | 8.3 | 9.9 | +1.7 s |
| Marijuana | 22.0 | 20.7 | 17.9 | 15.5 | 13.9 | 13.5 | 13.3 | 13.4 | 14.1 | 14.0 | 15.1 | 15.0 | 14.9 | 15.6 | 16.1 | 16.7 | 16.9 | 17.3 | 16.5 | 15.8 | 15.7 | 16.0 | 16.0 | 17.0 | 16.1 | 18.3 | 17.7 | 19.0 | 19.2 | +0.2 |
| Inhalants ${ }^{\text {b }}$ | 0.4 | 0.6 | 0.6 | 0.5 | 0.6 | 0.5 | 0.6 | 0.7 | 0.5 | 0.7 | 0.5 | 0.5 | 0.7 | 0.8 | 0.5 | 0.4 | 0.5 | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | 0.4 | 0.2 | 0.1 | 0.1 | 0.3 | 0.1 | 0.3 | +0.1 |
| Nitrites ${ }^{\text {c }}$ | 0.5 | 0.5 | 0.4 | - | 0.1 | * | 0.1 | 0.2 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hallucinogens ${ }^{\text {d,y }}$ | 1.3 | 1.2 | 1.1 | 1.1 | 0.9 | 1.1 | 1.5 | 1.2 | 1.4 | 1.7 | 1.2 | 1.5 | 1.4 | 1.3 | 1.2 | 1.2 | 0.9 | 1.2 | 0.9 | 0.8 | 0.7 | 0.9 | 0.9 | 0.8 | 1.0 | 0.9 | 0.6 | 1.0 | 0.9 | -0.1 |
| LSD ${ }^{\text {y }}$ | 0.9 | 0.8 | 0.8 | 0.8 | 0.6 | 0.8 | 1.1 | 0.8 | 1.1 | 1.3 | 0.7 | 0.9 | 1.0 | 0.8 | 0.8 | 0.7 | 0.3 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.4 | 0.2 | 0.4 | 0.3 | 0.3 | 0.4 | 0.4 | 0.0 |
| Hallucinogens other than LSD ${ }^{d, y}$ | 0.6 | 0.6 | 0.4 | 0.5 | 0.4 | 0.3 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.5 | 0.6 | 0.7 | 0.6 | 0.8 | 1.2 | 0.9 | 0.8 | 0.6 | 0.8 | 0.7 | 0.7 | 0.8 | 0.6 | 0.4 | 0.7 | 0.6 | -0.1 |
| PCP ${ }^{\text {e }}$ | 0.2 | 0.1 | 0.3 | - | 0.2 | 0.1 | 0.2 | 0.2 | 0.1 | * | 0.1 | 0.1 | 0.2 | 0.2 | * | * | 0.1 | 0.1 | 0.1 | * | * | * | 0.1 | * | * | 0.1 | * | 0.2 | 0.1 | 0.0 |
| Ecstasy (MDMA) ${ }^{\text {f }}$ | - | - | - | 0.4 | 0.2 | 0.1 | 0.3 | 0.3 | 0.2 | 0.4 | 0.3 | 0.6 | 0.8 | 1.3 | 1.9 | 1.8 | 1.3 | 0.8 | 0.6 | 0.6 | 0.7 | 0.5 | 0.6 | 0.6 | 0.8 | 0.7 | 1.0 | 1.1 | 1.3 | +0.3 |
| Cocaine | 8.2 | 6.0 | 5.7 | 3.8 | 2.4 | 2.0 | 1.8 | 1.4 | 1.3 | 1.5 | 1.2 | 1.5 | 1.7 | 1.9 | 1.7 | 2.2 | 2.2 | 2.4 | 2.2 | 2.2 | 2.3 | 2.1 | 1.9 | 1.8 | 1.4 | 1.5 | 1.3 | 1.5 | 1.8 | +0.3 |
| Crack ${ }^{9}$ | - | 1.0 | 1.2 | 0.7 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 |
| Other Cocaine ${ }^{\text {h }}$ | - | 4.8 | 4.8 | 3.4 | 2.1 | 1.8 | 1.7 | 1.1 | 1.0 | 1.3 | 1.1 | 1.5 | 1.5 | 1.6 | 1.5 | 1.8 | 2.0 | 2.1 | 2.1 | 1.9 | 1.9 | 2.0 | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 | 1.3 | 1.8 | +0.5 |
| Heroin | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | * | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | * | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | -0.2 |
| Narcotics other than Heroin ${ }^{\text {j,k }}$ | 0.9 | 0.9 | 0.7 | 0.7 | 0.7 | 0.6 | 0.7 | 0.7 | 0.6 | 0.9 | 0.7 | 0.9 | 0.9 | 1.2 | 1.4 | 1.7 | 2.9 | 2.9 | 3.0 | 3.5 | 3.2 | 3.4 | 3.6 | 3.2 | 3.4 | 2.9 | 2.7 | 2.6 | 2.1 | -0.5 |
| Amphetamines, Adjusted ${ }^{\text {j, }}$, | 4.0 | 3.2 | 2.7 | 2.1 | 1.9 | 1.5 | 1.5 | 1.5 | 1.7 | 1.7 | 1.5 | 1.7 | 1.7 | 1.9 | 2.3 | 2.4 | 2.5 | 2.5 | 2.4 | 2.1 | 2.2 | 2.3 | 2.2 | 2.5 | 2.9 | 3.0 | 3.2 | 3.0 | 3.5 | +0.5 |
| Methamphetamine ${ }^{\text {i }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.8 | 0.7 | 1.0 | 1.0 | 0.7 | 0.6 | 0.7 | 0.5 | 0.6 | 0.3 | 0.3 | 0.2 | 0.3 | 0.4 | 0.2 | 0.3 | +0.1 |
| Crystal Methamphetamine (Ice) ${ }^{\text {i }}$ | - | - | - | - | - | * | 0.1 | 0.3 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.6 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.1 | -0.3 |

## TABLE 5-3 (cont.)

## Trends in 30-Day Prevalence of Various Types of Drugs

## among Respondents of Modal Ages 19-28

(Entries are percentages.)



| Sedatives (Barbiturates) ${ }^{\text {j,u }}$ | 0.7 | 0.7 | 0.7 | 0.5 | 0.6 | 0.5 | 0.5 | 0.6 | 0.6 | 0.8 | 0.8 | 0.9 | 0.9 | 1.1 | 1.3 | 1.7 | 1.5 | 1.5 | 1.8 | 1.7 | 1.5 | 1.6 | 1.9 | 1.2 | 1.1 | 1.1 | 1.1 | 1.2 | 1.0 | -0.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sedatives, Adjusted ${ }^{\text {j,m }}$ | 0.9 | 0.8 | 0.7 | 0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methaqualone ${ }^{\text {j }}$ | 0.3 | 0.2 | 0.1 | * | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tranquilizers ${ }^{\text {d,j }}$ | 1.8 | 1.6 | 1.4 | 1.2 | 1.1 | 0.9 | 1.0 | 1.0 | 0.8 | 1.1 | 0.7 | 1.1 | 1.2 | 1.3 | 1.8 | 2.1 | 2.8 | 2.4 | 2.7 | 2.6 | 2.3 | 2.8 | 2.7 | 2.8 | 2.2 | 2.3 | 1.9 | 1.9 | 1.9 | 0.0 |
| Alcohol ${ }^{\text {n }}$ | 75.1 | 75.4 | 74.0 | 72.4 | 71.2 | 70.6 | 69.0 | 68.3 | 67.7 | 68.1 | 66.7 | 67.5 | 66.9 | 68.2 | 66.8 | 67.2 | 68.3 | 67.0 | 68.4 | 68.6 | 68.7 | 69.5 | 68.9 | 69.4 | 68.4 | 68.8 | 69.5 | 68.7 | 68.4 | -0.3 |
| Been Drunk ${ }^{0}$ | - | - | - | - | - | 35.4 | 35.6 | 34.2 | 34.3 | 33.0 | 33.2 | 35.6 | 34.2 | 37.7 | 35.7 | 36.8 | 37.1 | 37.8 | 39.0 | 39.0 | 42.1 | 41.4 | 40.7 | 40.5 | 39.4 | 39.5 | 39.1 | 37.7 | 39.3 | +1.6 |
| Flavored Alcoholic Beverage ${ }^{p}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 29.5 | 27.6 | 24.9 | 25.9 | 26.7 | 24.4 | 24.5 | 23.8 | 26.1 | 25.4 | 26.9 | +1.5 |
| Cigarettes | 31.1 | 30.9 | 28.9 | 28.6 | 27.7 | 28.2 | 28.3 | 28.0 | 28.0 | 29.2 | 30.1 | 29.9 | 30.9 | 30.3 | 30.1 | 30.2 | 29.2 | 28.4 | 29.2 | 28.6 | 27.0 | 26.2 | 24.6 | 23.3 | 22.4 | 21.3 | 19.7 | 20.0 | 17.5 | -2.6 ss |
| Steroids ${ }^{\text {a }}$ | - | - | - | 0.2 | 0.1 | 0.2 | 0.1 | * | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.4 | 0.2 | 0.3 | 0.5 | 0.2 | 0.1 | 0.1 | 0.3 | +0.2 |

Source. The Monitoring the Future study, the University of Michigan.
See footnotes following Table 5-4.

## TABLE 5-4

## Trends in 30-Day Prevalence of Daily Use of Various Types of Drugs

 among Respondents of Modal Ages 19-28(Entries are percentages.)



| Marijuana ${ }^{\text {s }}$ | 4.1 | 4.2 | 3.3 | 3.2 | 2.5 | 2.3 | 2.3 | 2.4 | 2.8 | 3.3 | 3.3 | 3.8 | 3.7 | 4.4 | 4.2 | 5.0 | 4.5 | 5.3 | 5.0 | 4.9 | 5.0 | 5.0 | 5.1 | 5.4 | 5.3 | 6.1 | 5.6 | 6.2 | 6.9 | +0.7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Any Illicit Drug | 0.2 | 0.1 | 0.2 | 0.1 | * | 0.1 | * | 0.1 | * | 0.1 | * | * | * | 0.1 | * | 0.1 | * | * | 0.1 | 0.1 | 0.1 | * | * | 0.1 | * | * | * | * | 0.1 | 0.0 |
| other than Marijuana ${ }^{\text {a }}$ | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.2 | 0.0 |
| Alcohol |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Daily ${ }^{\text {n,s }}$ | 6.1 | 6.6 | 6.1 | 5.5 | 4.7 | 4.9 | 4.5 | 4.5 | 3.9 | 3.9 | 4.0 | 4.6 | 4.0 | 4.8 | 4.1 | 4.4 | 4.7 | 5.1 | 4.5 | 5.2 | 5.4 | 5.6 | 5.3 | 5.3 | 4.6 | 5.2 | 5.5 | 5.1 | 5.0 | -0.1 |
| Been Drunk ${ }^{0,5}$ | - | - | - | - | - | 0.5 | 0.4 | 0.4 | 0.5 | 0.3 | 0.4 | 0.9 | 0.5 | 0.9 | 0.5 | 0.4 | 0.6 | 0.8 | 0.7 | 0.5 | 0.6 | 0.6 | 0.5 | 1.0 | 0.7 | 0.7 | 0.4 | 0.5 | 0.6 | +0.1 |
| 5+ Drinks in a Row in Last 2 Weeks | 36.1 | 36.2 | 35.2 | 34.8 | 34.3 | 34.7 | 34.2 | 34.4 | 33.7 | 32.6 | 33.6 | 34.4 | 34.1 | 35.8 | 34.7 | 35.9 | 35.9 | 35.8 | 37.1 | 37.0 | 37.6 | 37.8 | 37.9 | 36.7 | 35.9 | 36.5 | 35.5 | 35.1 | 33.5 | -1.6 |
| Cigarettes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Daily | 25.2 | 24.8 | 22.7 | 22.4 | 21.3 | 21.7 | 20.9 | 20.8 | 20.7 | 21.2 | 21.8 | 20.6 | 21.9 | 21.5 | 21.8 | 21.2 | 21.2 | 20.3 | 20.8 | 19.6 | 18.6 | 17.3 | 16.7 | 15.0 | 14.8 | 13.8 | 12.8 | 12.1 | 10.7 | -1.4 s |
| 1/2 Pack+/Day | 20.2 | 19.8 | 17.7 | 17.3 | 16.7 | 16.0 | 15.7 | 15.5 | 15.3 | 15.7 | 15.3 | 14.6 | 15.6 | 15.1 | 15.1 | 14.6 | 14.2 | 13.9 | 13.5 | 12.5 | 11.9 | 11.1 | 10.2 | 9.3 | 9.3 | 7.5 | 7.6 | 7.0 | 6.6 | -0.4 |

Source. The Monitoring the Future study, the University of Michigan.
Note. The illicit drugs not listed here show a daily prevalence of $0.2 \%$ or less in all years.
See footnotes on the following page.

## Footnotes for Tables 5-1 through 5-4

Notes. Level of significance of difference between the two most recent years: $s=.05, \mathrm{ss}=.01$, $\mathrm{sss}=.001$.
Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. The illicit drugs not listed here show a daily prevalence of $0.2 \%$ or less in all years.
' *' indicates a prevalence rate of less than 0.05\%.
' - ' indicates data not available.
${ }^{\text {a }}$ Use of any illicit drug includes any use of marijuana, hallucinogens, cocaine, heroin or other narcotics, amphetamines, sedatives (barbiturates), methaqualone (until 1990), or tranquilizers not under a doctor's orders.
${ }^{\text {b }}$ This drug was asked about in four of the five questionnaire forms in 1986-1989; $N$ is four fifths of $N$ indicated. Data were based on five of the six questionnaire forms in 1990-1998; $N$ is five sixths of $N$ indicated. Data were based on three of six questionnaire forms in 1999-2014; $N$ is three sixths of $N$ indicated. ${ }^{\text {c}}$ This drug was asked about in one questionnaire form. $N$ is one fifth of $N$ indicated in 1986-1988 and one sixth of $N$ indicated in 1990-1994. ${ }^{d}$ In 2001 the question text was changed on three of the six questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. For tranquilizers, Miltown was replaced with Xanax. Beginning in 2002 the remaining forms were changed to the new wording. ${ }^{\mathrm{e}}$ This drug was asked about in one of the five questionnaire forms in 1986-1988; $N$ is one fifth of $N$ indicated. Data were based on one of six questionnaire forms in 1990-2014; $N$ is one sixth of $N$ indicated.
${ }^{\text {f }}$ This drug was asked about in two of the five questionnnaire forms in 1989; $N$ is two fifths of $N$ indicated. Data were based on two of the six questionnaire forms in 1990-2001; $N$ is two sixths of $N$ indicated. Data were based on three of the six questionnaire forms in 2002-2014; $N$ is three sixths of $N$ indicated. ${ }^{9}$ This drug was asked about in two of the five questionnaire forms in 1987-1989; $N$ is two fifths of $N$ indicated. Data were based on all six questionnaire forms in 1990-2001. Data were based on five of six questionnaire forms in 2002-2014; $N$ is five sixths of $N$ indicated.
${ }^{\text {h }}$ This drug was asked about in one of the five questionnaire forms in 1987-1989; $N$ is one fifth of $N$ indicated. Data were based on four of the six questionnaire forms in 1990-2014; $N$ is four sixths of $N$ indicated.
${ }^{\text {i }}$ This drug was asked about in two of the six questionnaire forms; $N$ is two sixths of $N$ indicated.
${ }^{\mathrm{j}}$ Only drug use that was not under a doctor's orders is included here.
${ }^{k}$ In 2002 the question text was changed in three of the six questionnaire forms. The list of examples of narcotics other than heroin was updated: Talwin, laudanum, and paregoric-all of which had negligible rates of use by 2001-were replaced by Vicodin, OxyContin, and Percocet. The 2002 data presented here are based on the changed forms only; $N$ is three sixths of $N$ indicated. In 2003 the remaining forms were changed to the new wording. The data are based on all forms in 2003 and beyond.
'Based on the data from the revised question, which attempts to exclude the inappropriate reporting of nonprescription amphetamines.
${ }^{m}$ Sedatives, adjusted" data are a combination of barbiturate and methaqualone data.
"In 1993 and 1994, the question text was changed slightly in three of the six questionnaire forms to indicate that a drink meant more than just a few sips. Because this revision resulted in rather little change in reported prevalence in the surveys of high school graduates, the data for all forms combined are used in order to provide the most reliable estimate of change. After 1994 the new question text was used in all six of the questionnaire forms.
${ }^{\circ}$ This drug was asked about in three of the six questionnaire forms; $N$ is three sixths of $N$ indicated. For small cigars only, beginning in 2014 question asked on two of the six questionnaire forms; $N$ is two sixths of $N$ indicated.
${ }^{\mathrm{p}}$ This drug was asked about in one of the six questionnaire forms; $N$ is one sixth of $N$ indicated.
${ }^{\text {q }}$ This drug was asked about in one of the five questionnaire forms in 1989; $N$ is one fifth of $N$ indicated. Data were based on two of the six questionnaire forms in 1990-2014; N is two sixths of $N$ indicated.
${ }^{r}$ This drug was asked about in two of the six questionnaire forms in 2002-2009; $N$ is two sixths of $N$ indicated. Data were based on three of the six questionnaire forms in 2010-2014. $N$ is three sixths of $N$ indicated.
${ }^{\text {s }}$ Daily use is defined as use on 20 or more occasions in the past 30 days except for cigarettes, measured as actual daily use, and 5+ drinks, measured as having five or more drinks in a row in the last two weeks.
In 2012 the alcoholic beverage containing caffeine question text was changed to alcoholic beverage mixed with an energy drink. The data in 2011 and 2012 are not comparable due to this question change.
${ }^{\text {u }}$ In 2013 the question text was changed on all forms: Tuinal, Nembutal, and Seconal were replaced with Ambien, Lunesta, and Sonata. The data in 2012 and 2013 are not comparable due to this question change.
${ }^{v}$ This drug was asked about in two of the six questionnaire forms in 2011-2012; N is two sixths of N indicated. Data were based on three of the six questionaire forms in 2013-2014; $N$ is three sixths of $N$ indicated.
${ }^{w}$ This drug was asked about in one of the six questionnaire forms in 2009; $N$ is one sixth of $N$ indicated; Data were based on two of the six questionnaire forms in 2010-2011; N is two sixths of N indicated. Data were based on three of the six questionnaire forms in 2012-2014; N is three sixths of N indicated. ${ }^{\times}$This drug was asked about in two of the six questionnaire forms in 2002-2009; $N$ is two sixths of $N$ indicated; Data were based on three of the six questionnaire forms in 2010-2011; $N$ is three sixths of $N$ indicated. Data were based on two of the six questionnaire forms in 2012-2014; $N$ is two sixths of $N$ indicated. ${ }^{y}$ This drug was asked about in all available questionnaire forms until 2014. Beginning in 2014, data are based on five of the six questionnaire forms; $N$ is five sixths of $N$ indicated.

## TABLE 5-5

Trends in Annual and 30-Day Prevalence of an Illicit Drug Use Index ${ }^{\text {a }}$ among Respondents of Modal Ages 19-28

Total and by Gender
$\underline{1986} \underline{1987} \underline{1988} \underline{1989} \underline{1990} \underline{1991} \underline{1992} \underline{\underline{1993}} \underline{\underline{1994}} \underline{\underline{1995}} \underline{\underline{1996}} \underline{\underline{1997}} \underline{\underline{1998}} \underline{\underline{1999}} \underline{\underline{2000}} \underline{\underline{2001}} \underline{\underline{2002}} \underline{\underline{2003}} \underline{\underline{2004}} \underline{\underline{2005}} \underline{\underline{2006}} \underline{\underline{2007}} \underline{\underline{2008}} \underline{\underline{2009}} \underline{\underline{2010}} \underline{\underline{2011}} \underline{\underline{2012}} \underline{\underline{2013}} \underline{\underline{2014}} \underline{\underline{c h a n g e}}$

| Any Illicit Drug |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 41.9 | 39.3 | 36.3 | 32.8 | 30.7 | 27.0 | 28.3 | 28.4 | 28.4 | 29.8 | 29.2 | 29.2 | 29.9 | 30.3 | 30.8 | 32.1 | 32.4 | 33.0 | 33.7 | 32.8 | 32.1 | 32.5 | 33.8 | 33.3 | 33.2 | 34.7 | 34.0 | 36.7 | 37.5 | +0.9 |
| Males | 45.3 | 42.6 | 39.5 | 35.7 | 33.6 | 30.0 | 31.4 | 31.1 | 32.3 | 32.1 | 31.6 | 31.9 | 33.6 | 33.9 | 34.4 | 34.9 | 35.6 | 36.0 | 37.0 | 35.3 | 35.9 | 35.4 | 37.4 | 35.3 | 38.1 | 38.3 | 37.7 | 38.4 | 40.6 | +2.2 |
| Females | 39.0 | 36.5 | 33.6 | 30.5 | 28.3 | 24.5 | 25.8 | 26.1 | 25.3 | 28.1 | 27.3 | 27.1 | 27.1 | 27.6 | 28.2 | 30.1 | 30.2 | 31.0 | 31.4 | 31.1 | 29.5 | 30.7 | 31.4 | 32.0 | 29.9 | 32.4 | 31.5 | 35.4 | 35.3 | -0.1 |
| Any Illicit Drug other than Marijuana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 27.0 | 23.9 | 21.3 | 18.3 | 16.7 | 14.3 | 14.1 | 13.0 | 13.0 | 13.8 | 13.2 | 13.6 | 13.2 | 13.7 | 14.9 | 15.4 | 16.3 | 18.1 | 18.8 | 18.5 | 18.4 | 18.1 | 18.9 | 17.4 | 18.5 | 17.6 | 17.2 | 18.1 | 21.2 | +3.0 ss |
| Males | 30.4 | 26.5 | 23.8 | 21.0 | 19.1 | 16.4 | 16.3 | 14.7 | 16.2 | 16.2 | 15.4 | 15.6 | 16.2 | 16.7 | 17.8 | 17.2 | 18.9 | 19.8 | 21.3 | 20.4 | 21.8 | 20.3 | 21.1 | 18.7 | 21.5 | 19.9 | 19.5 | 19.7 | 23.7 | +4.0 s |
| Females | 24.0 | 21.6 | 19.4 | 16.2 | 14.7 | 12.5 | 12.2 | 11.6 | 10.5 | 12.0 | 11.4 | 12.0 | 11.0 | 11.5 | 12.9 | 14.1 | 14.6 | . 0 | 17.1 | 17.3 | 6. | 16.7 | 17.5 | 16. | 16. | 16. | 15. | 17.1 | 19.4 | +2.3 |

## Any Illicit Drug

Total
Males
Females

| 25.8 | 23.4 | 20.5 | 17.7 | 15.9 | 15.1 | 14.8 | 14.9 | 15.3 | 15.8 | 15.8 | 16.4 | 16.1 | 17.1 | 18.1 | 18.8 | 18.9 | 19.9 | 19.1 | 18.6 | 18.5 | 18.9 | 19.3 | 19.8 | 18.9 | 20.6 | 19.9 | 21.6 | 22.3 | +0.7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 29.9 | 27.1 | 23.7 | 21.1 | 18.8 | 18.3 | 17.9 | 17.4 | 19.5 | 18.6 | 19.0 | 19.8 | 20.1 | 20.0 | 21.5 | 21.9 | 22.8 | 22.4 | 23.1 | 22.0 | 22.5 | 22.7 | 22.8 | 22.4 | 23.9 | 24.5 | 23.8 | 25.4 | 24.7 | -0.8 |
| 22.2 | 20.2 | 17.8 | 15.0 | 13.5 | 12.5 | 12.4 | 12.9 | 12.1 | 13.5 | 13.3 | 13.8 | 13.2 | 15.0 | 15.6 | 16.6 | 16.3 | 18.3 | 16.3 | 16.4 | 15.7 | 16.4 | 16.9 | 18.0 | 15.5 | 18.2 | 17.3 | 18.9 | 20.6 | +1.7 |
| 13.0 | 10.7 | 9.5 | 7.5 | 6.0 | 5.4 | 5.5 | 4.9 | 5.3 | 5.7 | 4.7 | 5.5 | 5.5 | 6.0 | 6.4 | 7.0 | 7.7 | 8.3 | 8.5 | 8.2 | 8.1 | 8.6 | 8.9 | 8.5 | 8.6 | 8.4 | 7.8 | 8.3 | 9.9 | +1.7 s |
| 15.2 | 12.3 | 10.6 | 9.1 | 6.8 | 6.6 | 6.5 | 5.9 | 7.1 | 6.8 | 5.7 | 6.8 | 7.1 | 7.3 | 7.8 | 8.1 | 8.5 | 9.2 | 10.6 | 9.2 | 10.2 | 10.0 | 10.0 | 8.5 | 10.0 | 10.0 | 9.0 | 9.4 | 11.4 | +2.0 |
| 11.0 | 9.4 | 8.7 | 6.2 | 5.3 | 4.4 | 4.7 | 4.0 | 3.9 | 4.8 | 4.0 | 4.5 | 4.4 | 5.1 | 5.4 | 6.3 | 7.1 | 7.7 | 7.1 | 7.6 | 6.8 | 7.7 | 8.1 | 8.5 | 7.6 | 7.5 | 7.0 | 7.5 | 9.0 | +1.4 |

Approximate Weighted $N$

## All Respondents

Total

Males

Females

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent years: $s=.05, \mathrm{ss}=.01$, $s s s=.001$.
Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.
${ }^{\text {a }}$ Use of any illicit drug includes any use of marijuana, hallucinogens, cocaine, heroin or other narcotics, amphetamines, sedatives (barbiturates), methaqualone (until 1990), or tranquilizers not under a doctor's orders.

FIGURE 5-1
ANY ILLICIT DRUG
Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 55, by Age Group

(Figure continued on next page.)

## FIGURE 5-1 (cont.)

ANY ILLICIT DRUG

## Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group

|  | Age 18 | $\begin{array}{r} \text { Ages } \\ 19-20 \\ \hline \end{array}$ | $\begin{aligned} & \text { Ages } \\ & \underline{21-22} \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Ages } \\ \underline{23-24} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 25-26 \end{gathered}$ | $\begin{aligned} & \text { Ages } \\ & \underline{27-28} \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Ages } \\ \underline{29-30} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {a }} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 | Age 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 48.1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 51.1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 53.8 | 55.8 |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 54.2 | 54.5 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 53.1 | 54.5 | 55.3 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 52.1 | 53.4 | 55.4 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 49.4 | 50.2 | 51.2 | 51.7 |  |  |  |  |  |  |  |  |  |
| 1983 | 47.4 | 47.4 | 49.9 | 48.9 |  |  |  |  |  |  |  |  |  |
| 1984 | 45.8 | 45.9 | 47.3 | 44.0 | 44.0 |  |  |  |  |  |  |  |  |
| 1985 | 46.3 | 45.7 | 46.3 | 47.8 | 45.2 |  |  |  |  |  |  |  |  |
| 1986 | 44.3 | 42.6 | 45.8 | 42.8 | 39.3 | 38.4 |  |  |  |  |  |  |  |
| 1987 | 41.7 | 39.5 | 42.3 | 37.9 | 40.1 | 36.2 |  |  |  |  |  |  |  |
| 1988 | 38.5 | 39.4 | 38.2 | 36.6 | 34.4 | 32.5 | 30.5 |  |  |  |  |  |  |
| 1989 | 35.4 | 35.7 | 35.0 | 31.4 | 30.5 | 30.9 | 28.9 |  |  |  |  |  |  |
| 1990 | 32.5 | 32.3 | 32.7 | 30.7 | 29.6 | 27.4 | 23.0 | 23.7 |  |  |  |  |  |
| 1991 | 29.4 | 28.1 | 29.9 | 27.0 | 25.2 | 23.9 | 24.5 | 23.8 |  |  |  |  |  |
| 1992 | 27.1 | 29.7 | 30.0 | 29.2 | 26.4 | 25.3 | 23.1 | 21.9 |  |  |  |  |  |
| 1993 | 31.0 | 30.5 | 30.2 | 29.8 | 25.6 | 24.6 | 21.7 | 22.3 |  |  |  |  |  |
| 1994 | 35.8 | 32.2 | 31.6 | 27.3 | 25.5 | 23.6 | 22.4 | 22.4 | 19.5 |  |  |  |  |
| 1995 | 39.0 | 35.6 | 31.9 | 28.5 | 27.3 | 23.9 | 21.3 | 19.8 | 21.6 |  |  |  |  |
| 1996 | 40.2 | 36.1 | 33.0 | 27.6 | 23.4 | 23.7 | 22.7 | 21.7 | 21.2 |  |  |  |  |
| 1997 | 42.4 | 36.7 | 33.5 | 27.3 | 25.4 | 20.7 | 22.2 | 21.2 | 20.3 |  |  |  |  |
| 1998 | 41.4 | 40.6 | 34.1 | 27.4 | 23.9 | 22.0 | 19.6 | 19.3 | 18.1 | 20.3 |  |  |  |
| 1999 | 42.1 | 40.4 | 33.3 | 31.1 | 24.5 | 20.8 | 19.0 | 17.7 | 17.7 | 16.7 |  |  |  |
| 2000 | 40.9 | 39.3 | 36.9 | 29.6 | 25.5 | 21.4 | 20.3 | 17.6 | 19.1 | 17.2 |  |  |  |
| 2001 | 41.4 | 38.4 | 40.2 | 31.1 | 27.4 | 22.9 | 21.1 | 20.2 | 17.8 | 15.8 |  |  |  |
| 2002 | 41.0 | 39.4 | 36.7 | 35.2 | 27.6 | 22.9 | 20.9 | - | 18.1 | 18.2 |  |  |  |
| 2003 | 39.3 | 38.1 | 38.3 | 34.6 | 27.5 | 26.3 | 20.6 | - | 17.9 | 15.8 | 17.8 |  |  |
| 2004 | 38.8 | 38.0 | 36.5 | 34.5 | 31.6 | 26.8 | 22.0 | - | 18.5 | 17.5 | 15.8 |  |  |
| 2005 | 38.4 | 38.9 | 36.4 | 31.9 | 32.0 | 24.3 | 25.2 | - | 18.2 | 19.1 | 15.3 |  |  |
| 2006 | 36.5 | 36.3 | 36.0 | 32.7 | 28.6 | 25.7 | 25.9 | - | 17.5 | 16.2 | 17.2 |  |  |
| 2007 | 35.9 | 35.2 | 35.0 | 34.1 | 29.3 | 28.5 | 22.7 | - | 17.5 | 17.4 | 18.3 |  |  |
| 2008 | 36.6 | 35.5 | 36.7 | 34.4 | 31.8 | 30.1 | 28.2 | - | 22.1 | 17.5 | 17.3 | 17.9 |  |
| 2009 | 36.5 | 35.5 | 38.8 | 34.1 | 29.6 | 27.4 | 27.9 | - | 20.0 | 19.1 | 17.0 | 16.0 |  |
| 2010 | 38.3 | 32.5 | 38.1 | 36.3 | 31.6 | 27.1 | 26.2 | - | 20.2 | 16.7 | 19.1 | 18.3 |  |
| 2011 | 40.0 | 37.9 | 37.5 | 35.4 | 32.1 | 29.9 | 26.2 | - | 24.2 | 16.9 | 17.8 | 16.8 |  |
| 2012 | 39.7 | 36.2 | 36.8 | 35.3 | 29.7 | 31.6 | 25.1 | - | 21.1 | 17.6 | 18.6 | 18.6 |  |
| 2013 | 40.1 | 37.5 | 42.4 | 35.9 | 32.0 | 34.9 | 25.6 | - | 23.3 | 18.7 | 17.7 | 17.0 | 16.6 |
| 2014 | 38.7 | 40.8 | 40.6 | 37.2 | 36.3 | 32.5 | 31.7 | - | 26.6 | 17.5 | 17.1 | 17.1 | 15.8 |

[^46]${ }^{\text {a }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

FIGURE 5-2
ANY ILLICIT DRUG OTHER THAN MARIJUANA
Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group

(Figure continued on next page.)

## FIGURE 5-2 (cont.)

## ANY ILLICIT DRUG OTHER THAN MARIJUANA Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group

|  | Age 18 | $\begin{array}{r} \text { Ages } \\ 19-20 \\ \hline \end{array}$ | $\begin{gathered} \text { Ages } \\ \underline{21-22} \end{gathered}$ | Ages $23-24$ <br> 23-24 | $\begin{gathered} \text { Ages } \\ \underline{25-26} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 27-28 \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 29-30 \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {a }} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 | Age 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 25.4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 26.0 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 27.1 | 28.6 |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 28.2 | 30.2 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 30.4 | 33.3 | 35.5 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 34.0 | 34.2 | 37.0 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 30.1 | 32.4 | 34.2 | 35.4 |  |  |  |  |  |  |  |  |  |
| 1983 | 28.4 | 29.8 | 33.7 | 33.2 |  |  |  |  |  |  |  |  |  |
| 1984 | 28.0 | 27.5 | 31.6 | 29.4 | 30.2 |  |  |  |  |  |  |  |  |
| 1985 | 27.4 | 26.9 | 29.5 | 33.4 | 30.3 |  |  |  |  |  |  |  |  |
| 1986 | 25.9 | 24.7 | 29.1 | 29.3 | 25.5 | 26.5 |  |  |  |  |  |  |  |
| 1987 | 24.1 | 22.2 | 25.6 | 22.6 | 25.7 | 23.3 |  |  |  |  |  |  |  |
| 1988 | 21.1 | 21.3 | 22.8 | 21.1 | 21.0 | 20.4 | 20.0 |  |  |  |  |  |  |
| 1989 | 20.0 | 17.6 | 19.4 | 18.8 | 17.6 | 18.2 | 17.4 |  |  |  |  |  |  |
| 1990 | 17.9 | 16.5 | 17.4 | 17.5 | 16.6 | 15.2 | 12.4 | 13.8 |  |  |  |  |  |
| 1991 | 16.2 | 13.8 | 14.9 | 14.6 | 14.4 | 13.6 | 13.2 | 13.1 |  |  |  |  |  |
| 1992 | 14.9 | 13.4 | 15.4 | 14.8 | 13.4 | 13.2 | 11.6 | 10.7 |  |  |  |  |  |
| 1993 | 17.1 | 13.5 | 13.5 | 12.9 | 13.0 | 11.5 | 9.9 | 9.5 |  |  |  |  |  |
| 1994 | 18.0 | 14.6 | 14.1 | 12.9 | 12.0 | 11.1 | 10.8 | 11.5 | 11.2 |  |  |  |  |
| 1995 | 19.4 | 18.6 | 15.2 | 11.5 | 11.6 | 10.9 | 11.0 | 8.2 | 10.4 |  |  |  |  |
| 1996 | 19.8 | 17.4 | 13.7 | 13.1 | 10.0 | 10.7 | 10.3 | 10.2 | 11.4 |  |  |  |  |
| 1997 | 20.7 | 17.6 | 17.7 | 12.1 | 10.7 | 8.4 | 11.0 | 10.8 | 10.0 |  |  |  |  |
| 1998 | 20.2 | 17.3 | 15.3 | 12.9 | 10.8 | 8.9 | 7.8 | 9.6 | 8.2 | 9.3 |  |  |  |
| 1999 | 20.7 | 18.7 | 14.1 | 14.8 | 11.6 | 8.6 | 8.1 | 8.3 | 9.3 | 7.9 |  |  |  |
| 2000 | 20.4 | 19.6 | 17.0 | 15.0 | 12.5 | 9.9 | 7.4 | 7.4 | 9.3 | 7.7 |  |  |  |
| 2001 | 21.6 | 18.0 | 20.0 | 14.1 | 13.3 | 11.4 | 9.9 | 9.7 | 8.8 | 7.3 |  |  |  |
| 2002 | 20.9 | 19.6 | 18.9 | 17.2 | 14.6 | 11.4 | 10.9 | - | 9.6 | 9.7 |  |  |  |
| 2003 | 19.8 | 19.9 | 20.7 | 20.1 | 14.5 | 15.1 | 11.6 | - | 9.5 | 6.7 | 8.9 |  |  |
| 2004 | 20.5 | 20.2 | 21.2 | 21.2 | 16.3 | 14.6 | 11.8 | - | 11.0 | 8.3 | 9.3 |  |  |
| 2005 | 19.7 | 20.2 | 20.5 | 18.0 | 19.7 | 14.2 | 15.8 | - | 10.5 | 9.4 | 8.4 |  |  |
| 2006 | 19.2 | 18.1 | 22.0 | 19.4 | 16.9 | 15.1 | 15.3 | - | 10.8 | 9.8 | 10.3 |  |  |
| 2007 | 18.5 | 17.8 | 19.7 | 19.1 | 17.0 | 16.9 | 13.0 | - | 11.0 | 11.3 | 10.7 |  |  |
| 2008 | 18.3 | 16.8 | 19.5 | 21.3 | 19.1 | 18.0 | 16.5 | - | 13.7 | 11.3 | 10.7 | 10.0 |  |
| 2009 | 17.0 | 14.6 | 22.9 | 17.6 | 17.8 | 14.1 | 17.2 | - | 13.3 | 10.4 | 9.6 | 10.3 |  |
| 2010 | 17.3 | 17.2 | 20.0 | 20.1 | 19.5 | 15.8 | 14.5 | - | 12.5 | 9.3 | 11.5 | 10.8 |  |
| 2011 | 17.6 | 17.4 | 18.2 | 19.3 | 17.3 | 15.8 | 13.7 | - | 13.6 | 9.6 | 9.8 | 9.4 |  |
| 2012 | 17.0 | 17.0 | 17.9 | 18.8 | 15.0 | 17.2 | 13.7 | - | 12.5 | 10.8 | 11.3 | 10.2 |  |
| 2013 | 17.8 | 16.7 | 23.4 | 18.3 | 15.1 | 16.8 | 14.4 | - | 13.0 | 9.6 | 9.5 | 8.6 | 7.0 |
| 2014 | 15.9 | 21.1 | 23.4 | 20.8 | 21.7 | 18.7 | 20.3 | - | 15.0 | 8.9 | 9.1 | 8.7 | 7.9 |

[^47]Notes. ' - ' indicates data not available.
${ }^{\text {a }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

FIGURE 5-3a
MARIJUANA

## Trends in Annual Prevalence

among Respondents of Modal Ages 18 through 55, by Age Group

(Figure continued on next page.)

# FIGURE 5-3a (cont.) 

MARIJUANA
Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 55, by Age Group

|  | Age 18 | $\begin{gathered} \text { Ages } \\ \underline{19-20} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{21-22} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 23-24 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{25-26} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{27-28} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 29-30 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {a }} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 | Age 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 44.5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 47.6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 50.2 | 52.8 |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 50.8 | 51.0 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 48.8 | 49.7 | 50.1 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 46.1 | 49.0 | 51.1 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 44.3 | 44.9 | 45.8 | 46.0 |  |  |  |  |  |  |  |  |  |
| 1983 | 42.3 | 43.0 | 45.4 | 43.8 |  |  |  |  |  |  |  |  |  |
| 1984 | 40.0 | 41.4 | 42.1 | 38.6 | 38.3 |  |  |  |  |  |  |  |  |
| 1985 | 40.6 | 40.3 | 40.9 | 42.0 | 39.2 |  |  |  |  |  |  |  |  |
| 1986 | 38.8 | 39.1 | 39.6 | 36.6 | 34.1 | 32.5 |  |  |  |  |  |  |  |
| 1987 | 36.3 | 35.8 | 37.4 | 33.7 | 35.4 | 31.4 |  |  |  |  |  |  |  |
| 1988 | 33.1 | 36.2 | 33.7 | 32.0 | 29.7 | 26.7 | 25.4 |  |  |  |  |  |  |
| 1989 | 29.6 | 32.2 | 31.6 | 27.3 | 26.2 | 26.8 | 24.7 |  |  |  |  |  |  |
| 1990 | 27.0 | 28.4 | 28.2 | 26.6 | 24.1 | 22.6 | 20.0 | 19.8 |  |  |  |  |  |
| 1991 | 23.9 | 25.4 | 26.8 | 23.2 | 21.8 | 20.9 | 21.0 | 19.9 |  |  |  |  |  |
| 1992 | 21.9 | 26.9 | 26.9 | 26.6 | 23.5 | 21.2 | 20.1 | 17.7 |  |  |  |  |  |
| 1993 | 26.0 | 27.9 | 26.1 | 26.5 | 22.2 | 21.3 | 18.8 | 19.9 |  |  |  |  |  |
| 1994 | 30.7 | 29.3 | 29.2 | 24.6 | 22.6 | 20.1 | 19.0 | 18.6 | 14.5 |  |  |  |  |
| 1995 | 34.7 | 31.8 | 28.1 | 25.8 | 24.4 | 20.4 | 18.2 | 17.2 | 17.2 |  |  |  |  |
| 1996 | 35.8 | 34.2 | 30.6 | 25.8 | 21.7 | 20.6 | 19.5 | 18.6 | 16.3 |  |  |  |  |
| 1997 | 38.5 | 34.8 | 30.6 | 25.1 | 23.3 | 18.0 | 18.0 | 16.7 | 17.5 |  |  |  |  |
| 1998 | 37.5 | 37.2 | 31.9 | 25.5 | 21.2 | 19.9 | 16.9 | 15.8 | 14.9 | 17.1 |  |  |  |
| 1999 | 37.8 | 37.9 | 31.5 | 27.4 | 21.8 | 18.2 | 16.0 | 14.8 | 14.7 | 13.8 |  |  |  |
| 2000 | 36.5 | 37.0 | 33.2 | 26.9 | 22.7 | 18.8 | 18.4 | 14.5 | 13.8 | 13.7 |  |  |  |
| 2001 | 37.0 | 35.4 | 37.5 | 28.3 | 25.0 | 19.4 | 17.1 | 16.7 | 14.8 | 12.5 |  |  |  |
| 2002 | 36.2 | 36.4 | 34.3 | 31.8 | 24.5 | 19.4 | 17.5 | - | 13.7 | 14.6 |  |  |  |
| 2003 | 34.9 | 35.9 | 33.1 | 30.0 | 24.3 | 21.2 | 17.0 | - | 13.0 | 13.4 | 14.0 |  |  |
| 2004 | 34.3 | 34.5 | 32.5 | 27.7 | 27.6 | 22.4 | 16.4 | - | 13.0 | 13.9 | 11.9 |  |  |
| 2005 | 33.6 | 34.9 | 32.6 | 26.8 | 26.4 | 19.7 | 18.9 | - | 12.9 | 14.3 | 11.7 |  |  |
| 2006 | 31.5 | 33.2 | 31.1 | 28.5 | 24.0 | 20.9 | 19.9 | - | 11.4 | 11.0 | 11.6 |  |  |
| 2007 | 31.7 | 33.1 | 30.5 | 29.3 | 24.7 | 24.4 | 18.3 | - | 10.8 | 11.6 | 12.6 |  |  |
| 2008 | 32.4 | 32.1 | 33.3 | 27.4 | 25.9 | 23.6 | 22.3 | - | 14.2 | 10.7 | 11.1 | 11.7 |  |
| 2009 | 32.8 | 33.2 | 33.7 | 29.5 | 25.2 | 23.3 | 22.5 | - | 12.6 | 12.2 | 11.6 | 10.1 |  |
| 2010 | 34.8 | 30.6 | 34.0 | 30.5 | 25.5 | 22.3 | 21.5 | - | 14.6 | 12.0 | 12.7 | 11.4 |  |
| 2011 | 36.4 | 34.4 | 34.8 | 31.8 | 27.0 | 25.8 | 20.9 | - | 17.7 | 10.6 | 11.6 | 10.8 |  |
| 2012 | 36.4 | 34.0 | 34.0 | 30.3 | 25.6 | 26.5 | 19.8 | - | 14.4 | 12.5 | 12.3 | 12.2 |  |
| 2013 | 36.4 | 35.5 | 36.7 | 34.3 | 28.4 | 25.2 | 22.4 | - | 17.1 | 14.3 | 11.9 | 11.9 | 12.1 |
| 2014 | 35.1 | 38.0 | 34.7 | 30.5 | 28.8 | 25.6 | 24.1 | - | 20.0 | 12.6 | 11.7 | 12.6 | 11.5 |

[^48]${ }^{\text {a }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

FIGURE 5-3b
MARIJUANA

## Trends in 30-Day Prevalence

among Respondents of Modal Ages 18 through 55, by Age Group

(Figure continued on next page.)

# Trends in 30-Day Prevalence among Respondents of Modal Ages 18 through 55, by Age Group 

|  | Age 18 | $\begin{gathered} \text { Ages } \\ \underline{19-20} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{21-22} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 23-24 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{25-26} \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Ages } \\ & \underline{27-28} \end{aligned}$ | $\begin{gathered} \text { Ages } \\ 29-30 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {a }} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 | Age 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 32.2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 35.4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 37.1 | 38.0 |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 36.5 | 37.5 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 33.7 | 33.9 | 35.9 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 31.6 | 34.2 | 35.3 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 28.5 | 28.6 | 29.1 | 30.3 |  |  |  |  |  |  |  |  |  |
| 1983 | 27.0 | 25.7 | 29.3 | 29.7 |  |  |  |  |  |  |  |  |  |
| 1984 | 25.2 | 24.6 | 26.4 | 25.4 | 24.9 |  |  |  |  |  |  |  |  |
| 1985 | 25.7 | 22.8 | 25.2 | 26.8 | 24.8 |  |  |  |  |  |  |  |  |
| 1986 | 23.4 | 22.9 | 23.3 | 23.0 | 19.9 | 20.7 |  |  |  |  |  |  |  |
| 1987 | 21.0 | 20.4 | 21.8 | 19.6 | 21.5 | 20.3 |  |  |  |  |  |  |  |
| 1988 | 18.0 | 20.1 | 18.5 | 17.4 | 17.2 | 16.1 | 15.4 |  |  |  |  |  |  |
| 1989 | 16.7 | 16.3 | 15.9 | 15.6 | 14.7 | 14.7 | 15.0 |  |  |  |  |  |  |
| 1990 | 14.0 | 15.2 | 14.3 | 13.4 | 13.4 | 12.9 | 11.5 | 11.5 |  |  |  |  |  |
| 1991 | 13.8 | 13.2 | 14.7 | 13.0 | 13.0 | 13.5 | 12.7 | 12.1 |  |  |  |  |  |
| 1992 | 11.9 | 14.1 | 14.7 | 12.5 | 12.6 | 12.0 | 12.2 | 11.3 |  |  |  |  |  |
| 1993 | 15.5 | 14.6 | 13.8 | 13.6 | 12.4 | 12.3 | 11.2 | 11.7 |  |  |  |  |  |
| 1994 | 19.0 | 15.3 | 16.5 | 13.3 | 12.9 | 11.6 | 11.4 | 10.8 | 8.7 |  |  |  |  |
| 1995 | 21.2 | 18.7 | 15.4 | 12.2 | 11.7 | 10.4 | 10.8 | 11.1 | 11.1 |  |  |  |  |
| 1996 | 21.9 | 19.9 | 16.4 | 14.2 | 12.6 | 11.0 | 10.5 | 10.9 | 8.8 |  |  |  |  |
| 1997 | 23.7 | 19.9 | 18.9 | 14.0 | 10.5 | 10.1 | 9.4 | 10.0 | 10.7 |  |  |  |  |
| 1998 | 22.8 | 20.1 | 17.5 | 13.8 | 11.8 | 10.5 | 9.0 | 8.7 | 9.1 | 10.5 |  |  |  |
| 1999 | 23.1 | 23.1 | 17.8 | 15.3 | 12.0 | 8.9 | 9.3 | 8.5 | 8.8 | 8.3 |  |  |  |
| 2000 | 21.6 | 22.3 | 19.8 | 14.7 | 12.5 | 10.7 | 9.8 | 7.7 | 8.3 | 8.5 |  |  |  |
| 2001 | 22.4 | 21.0 | 22.9 | 14.9 | 14.5 | 10.3 | 8.3 | 9.6 | 8.8 | 8.3 |  |  |  |
| 2002 | 21.5 | 22.2 | 20.1 | 17.2 | 14.8 | 9.9 | 9.0 | - | 8.9 | 8.1 |  |  |  |
| 2003 | 21.2 | 22.5 | 18.2 | 18.9 | 14.5 | 12.2 | 8.9 | - | 7.1 | 8.2 | 8.4 |  |  |
| 2004 | 19.9 | 20.7 | 18.3 | 15.6 | 15.1 | 12.0 | 8.5 | - | 7.8 | 8.3 | 6.5 |  |  |
| 2005 | 19.8 | 18.9 | 17.9 | 14.1 | 15.9 | 11.9 | 11.9 | - | 7.0 | 8.1 | 7.2 |  |  |
| 2006 | 18.3 | 17.5 | 17.4 | 16.2 | 14.0 | 13.1 | 10.1 | - | 6.2 | 6.7 | 6.3 |  |  |
| 2007 | 18.8 | 18.4 | 18.0 | 16.2 | 13.6 | 13.5 | 10.4 | - | 5.8 | 6.7 | 6.9 |  |  |
| 2008 | 19.4 | 17.9 | 17.8 | 16.2 | 13.3 | 14.2 | 12.9 | - | 7.8 | 6.6 | 6.4 | 7.2 |  |
| 2009 | 20.6 | 19.5 | 20.0 | 16.0 | 15.3 | 13.3 | 12.1 | - | 5.9 | 6.8 | 7.3 | 5.9 |  |
| 2010 | 21.4 | 18.0 | 18.0 | 17.3 | 13.6 | 13.5 | 11.0 | - | 8.9 | 7.1 | 7.3 | 6.8 |  |
| 2011 | 22.6 | 20.4 | 21.9 | 18.1 | 15.5 | 15.0 | 10.9 | - | 10.1 | 6.5 | 7.3 | 5.9 |  |
| 2012 | 22.9 | 21.6 | 19.8 | 18.0 | 14.0 | 14.6 | 11.5 | - | 9.1 | 6.5 | 6.6 | 7.3 |  |
| 2013 | 22.7 | 21.8 | 23.0 | 20.0 | 15.8 | 13.9 | 13.7 | - | 10.4 | 8.2 | 5.7 | 7.5 | 7.6 |
| 2014 | 21.2 | 24.3 | 21.2 | 17.8 | 17.4 | 15.1 | 13.2 | - | 11.1 | 6.8 | 7.1 | 8.1 | 8.1 |

[^49]${ }^{\text {a }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

FIGURE 5-3c
MARIJUANA
Trends in 30-Day Prevalence of Daily Use
among Respondents of Modal Ages 18 through 55, by Age Group

(Figure continued on next page.)

## FIGURE 5-3c (cont.) <br> MARIJUANA

## Trends in 30-Day Prevalence of Daily Use among Respondents of Modal Ages 18 through 55, by Age Group

|  | Age 18 | $\begin{array}{r} \text { Ages } \\ \underline{19-20} \\ \hline \end{array}$ | $\begin{gathered} \text { Ages } \\ 21-22 \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{23-24} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 25-26 \end{gathered}$ | $\begin{aligned} & \text { Ages } \\ & \underline{27-28} \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Ages } \\ \underline{29-30} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{31-32^{\text {a }}} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 | Age 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 8.2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 9.1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 10.7 | 10.5 |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 10.3 | 10.9 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 9.1 | 8.1 | 10.9 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 7.0 | 7.9 | 9.4 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 6.3 | 6.6 | 6.4 | 8.1 |  |  |  |  |  |  |  |  |  |
| 1983 | 5.5 | 5.2 | 6.2 | 6.7 |  |  |  |  |  |  |  |  |  |
| 1984 | 5.0 | 4.7 | 5.3 | 5.5 | 6.0 |  |  |  |  |  |  |  |  |
| 1985 | 4.9 | 4.6 | 4.5 | 5.8 | 6.1 |  |  |  |  |  |  |  |  |
| 1986 | 4.0 | 3.5 | 4.1 | 4.9 | 3.6 | 4.8 |  |  |  |  |  |  |  |
| 1987 | 3.3 | 3.4 | 3.9 | 4.3 | 5.0 | 4.6 |  |  |  |  |  |  |  |
| 1988 | 2.7 | 3.5 | 3.5 | 3.1 | 3.4 | 3.0 | 3.2 |  |  |  |  |  |  |
| 1989 | 2.9 | 2.8 | 3.1 | 3.0 | 3.3 | 4.1 | 3.2 |  |  |  |  |  |  |
| 1990 | 2.2 | 2.3 | 2.5 | 2.7 | 2.7 | 2.4 | 2.2 | 2.2 |  |  |  |  |  |
| 1991 | 2.0 | 2.1 | 2.4 | 2.1 | 2.5 | 2.6 | 2.6 | 2.5 |  |  |  |  |  |
| 1992 | 1.9 | 1.4 | 2.6 | 2.3 | 2.6 | 2.5 | 2.9 | 2.1 |  |  |  |  |  |
| 1993 | 2.4 | 2.3 | 2.3 | 2.7 | 2.5 | 2.3 | 2.7 | 2.6 |  |  |  |  |  |
| 1994 | 3.5 | 3.1 | 2.9 | 3.1 | 2.7 | 2.2 | 2.4 | 2.7 | 2.3 |  |  |  |  |
| 1995 | 4.6 | 4.7 | 3.4 | 3.3 | 2.3 | 2.5 | 2.5 | 3.1 | 2.6 |  |  |  |  |
| 1996 | 4.9 | 4.9 | 3.2 | 2.3 | 3.1 | 2.5 | 2.2 | 2.8 | 2.3 |  |  |  |  |
| 1997 | 5.8 | 5.4 | 5.3 | 2.6 | 2.5 | 2.7 | 2.3 | 2.8 | 3.5 |  |  |  |  |
| 1998 | 5.6 | 5.2 | 5.2 | 3.1 | 2.4 | 2.3 | 2.4 | 2.8 | 2.7 | 3.2 |  |  |  |
| 1999 | 6.0 | 6.2 | 4.6 | 5.1 | 3.1 | 2.8 | 2.5 | 2.1 | 1.9 | 2.1 |  |  |  |
| 2000 | 6.0 | 6.0 | 5.5 | 3.8 | 3.4 | 2.0 | 2.2 | 2.6 | 2.7 | 2.6 |  |  |  |
| 2001 | 5.8 | 6.1 | 7.0 | 4.7 | 4.6 | 2.3 | 2.6 | 2.9 | 2.3 | 1.8 |  |  |  |
| 2002 | 6.0 | 6.0 | 6.0 | 5.5 | 2.7 | 2.5 | 2.3 | - | 3.0 | 3.0 |  |  |  |
| 2003 | 6.0 | 6.5 | 6.0 | 6.6 | 3.5 | 4.0 | 1.9 | - | 2.1 | 2.4 | 2.6 |  |  |
| 2004 | 5.6 | 6.0 | 5.1 | 5.3 | 5.5 | 2.9 | 2.0 | - | 2.5 | 1.8 | 2.0 |  |  |
| 2005 | 5.0 | 6.4 | 4.6 | 4.5 | 5.9 | 3.0 | 3.9 | - | 2.1 | 1.9 | 2.1 |  |  |
| 2006 | 5.0 | 5.2 | 5.3 | 5.3 | 5.0 | 4.3 | 2.5 | - | 2.8 | 2.3 | 1.4 |  |  |
| 2007 | 5.1 | 5.1 | 4.9 | 5.2 | 4.1 | 5.7 | 3.2 | - | 1.9 | 2.3 | 2.7 |  |  |
| 2008 | 5.4 | 4.1 | 6.1 | 5.4 | 5.5 | 4.3 | 4.8 | - | 2.2 | 2.2 | 2.7 | 2.0 |  |
| 2009 | 5.2 | 5.8 | 6.3 | 5.8 | 5.1 | 3.7 | 5.4 | - | 1.7 | 2.1 | 2.2 | 2.0 |  |
| 2010 | 6.1 | 6.0 | 5.1 | 5.8 | 4.0 | 5.3 | 4.0 | - | 3.8 | 2.3 | 2.2 | 2.2 |  |
| 2011 | 6.6 | 6.6 | 6.3 | 6.9 | 5.8 | 4.6 | 3.7 | - | 2.7 | 2.7 | 2.7 | 2.3 |  |
| 2012 | 6.5 | 6.2 | 6.1 | 5.7 | 5.1 | 5.1 | 4.5 | - | 3.6 | 2.6 | 2.2 | 2.7 |  |
| 2013 | 6.5 | 6.2 | 7.8 | 6.2 | 5.8 | 5.1 | 2.9 | - | 3.3 | 2.3 | 2.4 | 2.1 | 2.7 |
| 2014 | 5.8 | 7.9 | 7.7 | 6.8 | 6.1 | 6.1 | 5.7 | - | 5.1 | 1.4 | 2.6 | 2.5 | 2.4 |

[^50]FIGURE 5-4
INHALANTS ${ }^{\text {a }}$
Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 32, b by Age Group

(Figure continued on next page.)

# FIGURE 5-4 (cont.) 

INHALANTS ${ }^{\text {a }}$
Trends in Annual Prevalence among Respondents of Modal Ages 18 through 32, ${ }^{\text {b }}$ by Age Group

|  | Age 18 | $\begin{gathered} \text { Ages } \\ 19-20 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 21-22 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 23-24 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 25-26 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 27-28 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{29-30} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {c }} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |
| 1976 | 3.0 |  |  |  |  |  |  |  |
| 1977 | 3.7 |  |  |  |  |  |  |  |
| 1978 | 4.1 | 2.6 |  |  |  |  |  |  |
| 1979 | 5.4 | 2.4 |  |  |  |  |  |  |
| 1980 | 4.6 | 2.5 | 1.8 |  |  |  |  |  |
| 1981 | 4.1 | 2.2 | 2.0 |  |  |  |  |  |
| 1982 | 4.5 | 2.7 | 1.9 | 1.9 |  |  |  |  |
| 1983 | 4.3 | 3.0 | 2.0 | 1.4 |  |  |  |  |
| 1984 | 5.1 | 2.9 | 1.7 | 1.5 | 0.6 |  |  |  |
| 1985 | 5.7 | 3.4 | 1.8 | 2.1 | 0.8 |  |  |  |
| 1986 | 6.1 | 3.5 | 2.6 | 1.2 | 1.2 | 0.8 |  |  |
| 1987 | 6.9 | 4.2 | 3.0 | 1.4 | 0.9 | 0.7 |  |  |
| 1988 | 6.5 | 4.4 | 2.7 | 1.0 | 0.5 | 0.1 | 0.5 |  |
| 1989 | 5.9 | 3.7 | 2.1 | 1.9 | 0.5 | 0.8 | 0.4 |  |
| 1990 | 6.9 | 4.0 | 2.3 | 1.4 | 0.5 | 0.7 | 0.3 | 0.3 |
| 1991 | 6.6 | 4.0 | 2.3 | 1.0 | 1.2 | 0.6 | 0.6 | 0.4 |
| 1992 | 6.2 | 3.5 | 3.0 | 1.3 | 0.6 | 0.4 | 0.6 | 0.6 |
| 1993 | 7.0 | 3.6 | 2.8 | 1.9 | 0.7 | 0.8 | 0.4 | 0.5 |
| 1994 | 7.7 | 3.1 | 3.3 | 1.9 | 0.7 | 0.6 | 0.6 | 0.3 |
| 1995 | 8.0 | 5.0 | 2.1 | 2.1 | 1.7 | 0.7 | 0.8 | 0.9 |
| 1996 | 7.6 | 4.2 | 2.7 | 1.8 | 0.9 | 0.7 | * | 0.2 |
| 1997 | 6.7 | 4.7 | 2.8 | 1.6 | 1.0 | 0.5 | 1.0 | 0.4 |
| 1998 | 6.2 | 4.1 | 2.4 | 1.1 | 1.7 | 0.9 | 0.1 | 0.8 |
| 1999 | 5.6 | 3.1 | 3.3 | 3.0 | 0.4 | 1.2 | 0.5 | 0.3 |
| 2000 | 5.9 | 3.2 | 3.0 | 2.4 | 1.0 | 0.9 | 0.1 | 0.5 |
| 2001 | 4.5 | 3.4 | 2.4 | 0.9 | 0.8 | 1.0 | 0.7 | 0.5 |
| 2002 | 4.5 | 2.8 | 1.9 | 1.9 | 0.8 | 0.6 | 0.5 | - |
| 2003 | 3.9 | 2.2 | 1.4 | 0.9 | 1.3 | 1.0 | 0.5 | - |
| 2004 | 4.2 | 3.1 | 2.1 | 1.6 | 1.2 | 0.3 | 0.6 | - |
| 2005 | 5.0 | 1.5 | 2.2 | 1.0 | 0.4 | 1.2 | 1.4 | - |
| 2006 | 4.5 | 2.4 | 2.1 | 0.9 | 0.5 | 0.4 | 0.5 | - |
| 2007 | 3.7 | 1.8 | 1.0 | 0.4 | 0.4 | 0.5 | 0.5 | - |
| 2008 | 3.8 | 1.8 | 1.5 | 1.7 | 1.1 | 0.9 | 0.7 | - |
| 2009 | 3.4 | 1.5 | 1.2 | 0.8 | 0.5 | 0.3 | 0.3 | - |
| 2010 | 3.6 | 1.9 | 2.1 | 1.1 | 0.6 | 0.5 | 0.7 | - |
| 2011 | 3.2 | 1.1 | 1.2 | 0.5 | 0.7 | 0.6 | 0.7 | - |
| 2012 | 2.9 | 2.1 | 0.9 | 1.5 | 0.7 | 0.2 | 0.6 | - |
| 2013 | 2.5 | 0.4 | 0.9 | 0.8 | 0.2 | 0.2 | 0.3 | - |
| 2014 | 1.9 | 1.7 | 0.8 | 1.5 | 0.2 | 1.1 | 0.7 | - |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' *' indicates a percentage of less than $0.05 \%$. ' - ' indicates data not available.
${ }^{\text {a }}$ Unadjusted for the possible underreporting of amyl and butyl nitrites. Chapter 5, Volume I, shows that such an adjustment would flatten the trend for seniors considerably because the line was adjusted up more in the earlier years, when nitrite use was more prevalent. Questions about nitrite use were dropped from the follow-up questionnaires beginning in 1995.
${ }^{\mathrm{b}}$ Questions about the use of inhalants were not included in the questionnaires for 35-, 40-, 45-, and 50-year-olds.
${ }^{\text {c }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

FIGURE 5-5
HALLUCINOGENS ${ }^{\text {a }}$
Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 50, ${ }^{\text {C }}$ by Age Group


## FIGURE 5-5 (cont.)

HALLUCINOGENS ${ }^{a}$

## Trends in Annual Prevalence among Respondents of Modal Ages 18 through 50, ${ }^{\text {C }}$ by Age Group

|  | Age 18 | $\begin{array}{r} \text { Ages } \\ \underline{19-20} \\ \hline \end{array}$ | $\begin{gathered} \text { Ages } \\ 21-22 \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{23-24} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{25-26} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{27-28} \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{29-30} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {b }} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 9.4 |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 8.8 |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 9.6 | 9.5 |  |  |  |  |  |  |  |  |  |  |
| 1979 | 9.9 | 10.9 |  |  |  |  |  |  |  |  |  |  |
| 1980 | 9.3 | 9.7 | 10.1 |  |  |  |  |  |  |  |  |  |
| 1981 | 9.0 | 8.6 | 10.9 |  |  |  |  |  |  |  |  |  |
| 1982 | 8.1 | 9.9 | 9.3 | 8.1 |  |  |  |  |  |  |  |  |
| 1983 | 7.3 | 7.2 | 7.4 | 7.4 |  |  |  |  |  |  |  |  |
| 1984 | 6.5 | 6.0 | 7.5 | 5.4 | 4.7 |  |  |  |  |  |  |  |
| 1985 | 6.3 | 5.1 | 5.7 | 4.9 | 4.7 |  |  |  |  |  |  |  |
| 1986 | 6.0 | 6.3 | 5.7 | 4.6 | 3.0 | 2.4 |  |  |  |  |  |  |
| 1987 | 6.4 | 5.9 | 5.2 | 3.7 | 2.4 | 2.7 |  |  |  |  |  |  |
| 1988 | 5.5 | 5.8 | 5.8 | 3.8 | 2.5 | 1.3 | 2.1 |  |  |  |  |  |
| 1989 | 5.6 | 5.8 | 4.3 | 3.8 | 2.0 | 1.7 | 1.4 |  |  |  |  |  |
| 1990 | 5.9 | 6.3 | 5.0 | 4.4 | 2.3 | 1.8 | 1.2 | 1.0 |  |  |  |  |
| 1991 | 5.8 | 6.2 | 5.7 | 4.4 | 3.2 | 2.4 | 1.5 | 1.3 |  |  |  |  |
| 1992 | 5.9 | 6.7 | 7.2 | 4.2 | 3.7 | 2.2 | 1.9 | 1.2 |  |  |  |  |
| 1993 | 7.4 | 6.9 | 5.0 | 4.7 | 3.0 | 2.1 | 1.3 | 0.9 |  |  |  |  |
| 1994 | 7.6 | 6.7 | 6.8 | 4.3 | 3.0 | 2.4 | 1.5 | 1.0 | 0.8 |  |  |  |
| 1995 | 9.3 | 9.6 | 6.6 | 4.9 | 3.7 | 2.3 | 1.9 | 1.3 | 0.7 |  |  |  |
| 1996 | 10.1 | 10.1 | 6.2 | 5.4 | 3.2 | 2.2 | 1.4 | 0.9 | 0.5 |  |  |  |
| 1997 | 9.8 | 9.6 | 8.0 | 5.0 | 3.7 | 1.8 | 1.6 | 1.6 | 1.0 |  |  |  |
| 1998 | 9.0 | 8.1 | 6.7 | 5.2 | 3.2 | 2.0 | 1.4 | 0.9 | 0.6 | 0.8 |  |  |
| 1999 | 9.4 | 9.4 | 6.8 | 5.9 | 2.7 | 1.7 | 1.4 | 1.3 | 0.8 | 0.5 |  |  |
| 2000 | 8.1 | 8.0 | 7.4 | 4.9 | 3.9 | 2.6 | 1.7 | 0.9 | 0.5 | 0.9 |  |  |
| 2001 | 9.1 | 9.0 | 8.1 | 4.6 | 3.1 | 1.8 | 1.7 | 1.5 | 0.8 | 0.2 |  |  |
| 2002 | 6.6 | 7.3 | 5.8 | 5.2 | 2.8 | 2.2 | 2.0 | - | 0.3 | 0.7 |  |  |
| 2003 | 5.9 | 7.7 | 7.1 | 5.8 | 2.8 | 2.5 | 1.5 | - | 0.6 | 0.5 | 0.6 |  |
| 2004 | 6.2 | 6.3 | 6.7 | 4.4 | 3.2 | 2.6 | 1.4 | - | 1.0 | 0.5 | 0.3 |  |
| 2005 | 5.5 | 6.4 | 5.3 | 4.0 | 4.3 | 2.1 | 2.1 | - | 0.3 | 0.4 | 0.1 |  |
| 2006 | 4.9 | 5.8 | 5.3 | 4.6 | 2.1 | 2.4 | 1.5 | - | 0.4 | 0.1 | 0.1 |  |
| 2007 | 5.4 | 5.4 | 4.8 | 3.5 | 2.7 | 2.6 | 1.3 | - | 0.4 | 0.4 | 0.2 |  |
| 2008 | 5.9 | 5.2 | 5.5 | 3.3 | 3.2 | 1.7 | 2.9 | - | 1.1 | 0.2 | 0.1 | 0.2 |
| 2009 | 4.7 | 4.7 | 5.8 | 3.7 | 2.8 | 2.4 | 2.2 | - | 0.8 | 0.5 | 0.3 | 0.3 |
| 2010 | 5.5 | 5.3 | 5.1 | 4.7 | 3.5 | 2.3 | 2.1 | - | 1.8 | 0.6 | 0.3 | 0.2 |
| 2011 | 5.2 | 4.6 | 5.3 | 3.2 | 3.0 | 2.4 | 1.7 | - | 1.4 | 0.8 | 0.7 | 0.1 |
| 2012 | 4.8 | 5.3 | 3.9 | 3.7 | 2.6 | 2.1 | 2.3 | - | 1.1 | 0.2 | 0.6 | 0.1 |
| 2013 | 4.5 | 5.0 | 4.7 | 4.1 | 2.7 | 2.7 | 2.6 | - | 1.2 | 0.5 | 0.3 | 0.1 |
| 2014 | 4.0 | 5.6 | 4.7 | 4.3 | 3.2 | 2.8 | 2.4 | - | 1.4 | 0.2 | 0.7 | 0.4 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' - ' indicates data not available.
${ }^{\text {a }}$ Unadjusted for the possible underreporting of PCP.
${ }^{\text {b }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.
${ }^{\text {c }}$ Questions about the use of inhalants were not included in the questionnaires for 55 -year-olds.

## FIGURE 5-6

LSD
Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 35, ${ }^{\text {º by }}$ Age Group

(Figure continued on next page.)

## FIGURE 5-6 (cont.)

LSD Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 35, by Age Group

Age 18
$\begin{array}{r}\text { Ages } \\ 19-20 \\ \hline\end{array}$

| Ages |
| :---: |
| $\underline{21-22}$ |

Ages Ages Ages Ages Ages $\begin{array}{lccccc} & \underline{23-24} & \underline{25-26} & \underline{27-28} & \underline{29-30} & \underline{31-32^{a}}\end{array}$

| Year |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1976 | 6.4 |  |  |  |  |  |  |  |  |
| 1977 | 5.5 |  |  |  |  |  |  |  |  |
| 1978 | 6.3 | 6.2 |  |  |  |  |  |  |  |
| 1979 | 6.6 | 8.1 |  |  |  |  |  |  |  |
| 1980 | 6.5 | 7.2 | 7.9 |  |  |  |  |  |  |
| 1981 | 6.5 | 6.4 | 8.0 |  |  |  |  |  |  |
| 1982 | 6.1 | 7.7 | 6.9 | 6.0 |  |  |  |  |  |
| 1983 | 5.4 | 5.4 | 4.9 | 4.6 |  |  |  |  |  |
| 1984 | 4.7 | 4.3 | 5.1 | 3.1 | 2.7 |  |  |  |  |
| 1985 | 4.4 | 3.3 | 3.3 | 2.9 | 2.9 |  |  |  |  |
| 1986 | 4.5 | 4.5 | 4.4 | 2.7 | 1.5 | 1.6 |  |  |  |
| 1987 | 5.2 | 4.7 | 3.7 | 2.2 | 1.6 | 1.8 |  |  |  |
| 1988 | 4.8 | 4.9 | 4.2 | 2.9 | 1.6 | 0.8 | 1.5 |  |  |
| 1989 | 4.9 | 4.5 | 3.2 | 2.7 | 1.4 | 1.1 | 0.8 |  |  |
| 1990 | 5.4 | 5.3 | 4.0 | 3.5 | 1.8 | 1.5 | 0.8 | 0.6 |  |
| 1991 | 5.2 | 5.4 | 5.0 | 3.8 | 2.5 | 1.9 | 1.0 | 0.8 |  |
| 1992 | 5.6 | 6.3 | 6.0 | 3.5 | 3.2 | 1.6 | 1.4 | 1.0 |  |
| 1993 | 6.8 | 6.2 | 4.3 | 3.5 | 2.4 | 1.8 | 1.0 | 0.7 |  |
| 1994 | 6.9 | 6.2 | 5.7 | 3.2 | 2.4 | 1.6 | 1.0 | 0.6 | 0.6 |
| 1995 | 8.4 | 8.2 | 5.5 | 4.1 | 2.6 | 1.7 | 1.4 | 1.1 | 0.4 |
| 1996 | 8.8 | 8.7 | 4.9 | 4.6 | 2.0 | 1.6 | 1.0 | 0.5 | 0.5 |
| 1997 | 8.4 | 7.8 | 5.5 | 4.0 | 2.6 | 1.3 | 0.8 | 1.0 | 0.5 |
| 1998 | 7.6 | 5.9 | 4.4 | 3.5 | 2.1 | 1.0 | 1.0 | 0.7 | 0.3 |
| 1999 | 8.1 | 7.7 | 4.5 | 4.3 | 1.9 | 1.2 | 0.8 | 0.9 | 0.6 |
| 2000 | 6.6 | 6.3 | 4.9 | 2.6 | 2.5 | 1.6 | 1.0 | 0.2 | 0.3 |
| 2001 | 6.6 | 6.4 | 4.7 | 2.5 | 1.7 | 1.3 | 1.1 | 0.7 | 0.5 |
| 2002 | 3.5 | 3.3 | 1.8 | 2.2 | 1.0 | 0.7 | 0.9 | - | * |
| 2003 | 1.9 | 1.9 | 1.2 | 1.4 | 0.6 | 0.6 | 0.4 | - | * |
| 2004 | 2.2 | 1.5 | 1.4 | 0.7 | 0.5 | 0.3 | 0.2 | - | 0.4 |
| 2005 | 1.8 | 1.5 | 1.0 | 0.7 | 0.7 | 0.1 | 0.4 | - | 0.1 |
| 2006 | 1.7 | 2.1 | 1.4 | 1.1 | 0.6 | 0.7 | 0.2 | - | 0.1 |
| 2007 | 2.1 | 1.5 | 1.3 | 1.4 | 0.9 | 0.6 | 0.3 | - | - |
| 2008 | 2.7 | 2.0 | 2.7 | 0.9 | 0.8 | 0.4 | 0.5 | - | - |
| 2009 | 1.9 | 2.2 | 2.7 | 1.4 | 1.0 | 0.6 | 0.2 | - | - |
| 2010 | 2.6 | 2.4 | 1.5 | 1.7 | 1.1 | 0.6 | 0.2 | - | - |
| 2011 | 2.7 | 2.6 | 2.7 | 1.5 | 1.1 | 0.4 | 0.9 | - | - |
| 2012 | 2.4 | 2.5 | 1.6 | 1.6 | 1.3 | 0.7 | 0.3 | - | - |
| 2013 | 2.2 | 2.9 | 2.9 | 2.0 | 1.5 | 0.7 | 0.7 | - | - |
| 2014 | 2.5 | 3.5 | 2.7 | 2.2 | 1.5 | 1.1 | 0.7 | - | - |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' $*$ ' indicates a percentage of less than 0.05\%. ' - ' indicates data not available.
${ }^{\text {a }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.
${ }^{\text {b }}$ Questions about LSD use were not included in the questionnaires administered to the 40-, 45-, and 50 -year-olds, or the 35-year-olds after 2006.

FIGURE 5-7
HALLUCINOGENS OTHER THAN LSD ${ }^{\text {a }}$
Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 35, by Age Group

(Figure continued on next page.)

# FIGURE 5-7 (cont.) <br> HALLUCINOGENS OTHER THAN LSD ${ }^{\text {a }}$ <br> Trends in Annual Prevalence among Respondents of Modal Ages 18 through 35, by Age Group 

|  | Age 18 | $\begin{gathered} \text { Ages } \\ 19-20 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 21-22 \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{23-24} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{25-26} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{27-28} \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Ages } \\ & \underline{29-30} \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {b }} \end{gathered}$ | Age $35^{\text {c }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |
| 1976 | 7.0 |  |  |  |  |  |  |  |  |
| 1977 | 6.9 |  |  |  |  |  |  |  |  |
| 1978 | 7.3 | 7.1 |  |  |  |  |  |  |  |
| 1979 | 6.8 | 7.3 |  |  |  |  |  |  |  |
| 1980 | 6.2 | 5.4 | 5.8 |  |  |  |  |  |  |
| 1981 | 5.6 | 4.6 | 6.5 |  |  |  |  |  |  |
| 1982 | 4.7 | 6.1 | 5.2 | 4.0 |  |  |  |  |  |
| 1983 | 4.1 | 3.9 | 4.3 | 4.2 |  |  |  |  |  |
| 1984 | 3.8 | 3.2 | 4.1 | 3.5 | 3.0 |  |  |  |  |
| 1985 | 3.6 | 3.2 | 3.7 | 2.8 | 2.7 |  |  |  |  |
| 1986 | 3.0 | 3.6 | 2.6 | 2.7 | 2.0 | 1.4 |  |  |  |
| 1987 | 3.2 | 2.5 | 2.7 | 2.4 | 1.3 | 1.5 |  |  |  |
| 1988 | 2.1 | 2.4 | 3.2 | 1.8 | 1.2 | 0.7 | 0.9 |  |  |
| 1989 | 2.2 | 3.0 | 2.0 | 1.9 | 1.2 | 0.8 | 0.9 |  |  |
| 1990 | 2.1 | 2.6 | 2.4 | 1.6 | 1.0 | 0.7 | 0.6 | 0.5 |  |
| 1991 | 2.0 | 2.6 | 2.2 | 1.4 | 1.3 | 1.0 | 0.6 | 0.8 |  |
| 1992 | 1.7 | 1.9 | 3.1 | 1.9 | 1.5 | 0.8 | 0.8 | 0.4 |  |
| 1993 | 2.2 | 2.8 | 1.9 | 2.2 | 1.4 | 0.9 | 0.8 | 0.3 |  |
| 1994 | 3.1 | 2.2 | 3.1 | 2.0 | 1.3 | 1.2 | 0.9 | 0.5 | 0.5 |
| 1995 | 3.8 | 3.9 | 3.2 | 1.9 | 1.8 | 1.1 | 0.7 | 0.5 | 0.3 |
| 1996 | 4.4 | 4.4 | 3.5 | 2.8 | 1.6 | 0.9 | 0.7 | 0.6 | 0.1 |
| 1997 | 4.6 | 5.1 | 5.2 | 2.3 | 1.6 | 1.0 | 1.1 | 0.8 | 0.6 |
| 1998 | 4.6 | 4.8 | 3.7 | 3.1 | 1.8 | 1.4 | 0.7 | 0.4 | 0.5 |
| 1999 | 4.3 | 4.2 | 4.2 | 3.6 | 1.5 | 0.9 | 0.8 | 0.6 | 0.4 |
| 2000 | 4.4 | 4.6 | 4.7 | 3.7 | 2.1 | 1.6 | 1.1 | 0.6 | 0.3 |
| 2001 | 5.9 | 5.5 | 5.9 | 3.0 | 1.9 | 0.9 | 1.0 | 1.1 | 0.4 |
| 2002 | 5.4 | 6.5 | 5.2 | 4.1 | 2.5 | 1.7 | 1.6 | - | 0.3 |
| 2003 | 5.4 | 7.3 | 6.9 | 5.5 | 2.5 | 2.2 | 1.3 | - | 0.6 |
| 2004 | 5.6 | 6.0 | 6.3 | 4.0 | 3.1 | 2.4 | 1.4 | - | 0.8 |
| 2005 | 5.0 | 6.2 | 5.0 | 3.7 | 4.0 | 2.1 | 1.9 | - | 0.2 |
| 2006 | 4.6 | 5.3 | 4.9 | 4.2 | 2.0 | 2.1 | 1.4 | - | 0.4 |
| 2007 | 4.8 | 5.2 | 4.7 | 3.0 | 2.4 | 2.5 | 1.2 | - | - |
| 2008 | 5.0 | 4.7 | 4.5 | 3.0 | 2.8 | 1.6 | 2.6 | - | - |
| 2009 | 4.2 | 4.1 | 4.5 | 3.1 | 2.4 | 2.2 | 2.2 | - | - |
| 2010 | 4.8 | 4.9 | 4.6 | 3.9 | 3.0 | 2.1 | 2.0 | - | - |
| 2011 | 4.3 | 3.9 | 4.3 | 2.6 | 2.8 | 2.3 | 1.3 | - | - |
| 2012 | 4.0 | 4.4 | 3.3 | 3.0 | 1.9 | 1.9 | 2.1 | - | - |
| 2013 | 3.7 | 4.1 | 3.7 | 3.4 | 2.2 | 2.4 | 2.3 | - | - |
| 2014 | 3.0 | 4.2 | 3.5 | 3.0 | 2.5 | 2.3 | 2.0 | - | - |

Source. The Monitoring the Future study, the University of Michigan.
Notes. '- ' indicates data not available.
${ }^{\text {a }}$ Unadjusted for the possible underreporting of PCP.
${ }^{\text {b }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.
${ }^{\text {c }}$ Questions about the use of hallucinogens other than LSD were not included in the questionnaires administered to the 40-, 45-, and 50-year-olds, or the 35-year-olds after 2006.

FIGURE 5-8
ECSTASY (MDMA)
Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 32, ${ }^{\text {a }}$ by Age Group


## FIGURE 5-8 (cont.)

ECSTASY (MDMA)
Trends in Annual Prevalence among Respondents of Modal Ages 18 through 32, a by Age Group

|  | Age 18 | $\begin{array}{r} \text { Ages } \\ 19-20 \end{array}$ | $\begin{aligned} & \text { Ages } \\ & 21-22 \end{aligned}$ | $\begin{gathered} \text { Ages } \\ \underline{23-24} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 25-26 \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 27-28 \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 29-30 \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {b }} \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |
| 1976 |  |  |  |  |  |  |  |  |
| 1977 |  |  |  |  |  |  |  |  |
| 1978 |  |  |  |  |  |  |  |  |
| 1979 |  |  |  |  |  |  |  |  |
| 1980 |  |  |  |  |  |  |  |  |
| 1981 |  |  |  |  |  |  |  |  |
| 1982 |  |  |  |  |  |  |  |  |
| 1983 |  |  |  |  |  |  |  |  |
| 1984 |  |  |  |  |  |  |  |  |
| 1985 |  |  |  |  |  |  |  |  |
| 1986 |  |  |  |  |  |  |  |  |
| 1987 |  |  |  |  |  |  |  |  |
| 1988 |  |  |  |  |  |  |  |  |
| 1989 |  | 1.9 | 2.1 | 1.3 | 0.3 | 1.0 | 0.1 |  |
| 1990 |  | 2.2 | 2.0 | 1.5 | 1.0 | 0.7 | 0.3 | 0.5 |
| 1991 |  | 0.6 | 1.1 | 1.0 | 0.6 | 0.6 | 0.7 | 0.2 |
| 1992 |  | 1.8 | 1.7 | 0.4 | 0.8 | 0.4 | * | 0.4 |
| 1993 |  | 1.1 | 0.5 | 1.2 | 0.5 | 0.7 | * | 0.2 |
| 1994 |  | 0.6 | 1.4 | 0.9 | 0.2 | 0.4 | 0.3 | 0.2 |
| 1995 |  | 2.2 | 2.1 | 1.3 | 1.2 | 1.4 | 0.3 | 0.2 |
| 1996 | 4.6 | 3.7 | 1.9 | 1.1 | 1.1 | 0.7 | 0.5 | 0.1 |
| 1997 | 4.0 | 3.1 | 3.9 | 1.3 | 1.6 | 0.5 | 1.4 | 0.6 |
| 1998 | 3.6 | 4.0 | 3.7 | 2.3 | 1.8 | 2.3 | * | 0.9 |
| 1999 | 5.6 | 4.9 | 4.6 | 3.3 | 3.4 | 1.8 | 0.7 | 0.8 |
| 2000 | 8.2 | 9.1 | 9.8 | 7.0 | 6.9 | 2.6 | 2.4 | 0.3 |
| 2001 | 9.2 | 11.0 | 10.8 | 6.8 | 4.3 | 4.1 | 2.6 | 1.4 |
| 2002 | 7.4 | 6.3 | 9.3 | 8.3 | 4.4 | 2.6 | 2.4 | - |
| 2003 | 4.5 | 5.3 | 5.3 | 5.2 | 3.4 | 3.1 | 1.2 | - |
| 2004 | 4.0 | 4.2 | 2.4 | 3.2 | 4.0 | 3.7 | 0.9 | - |
| 2005 | 3.0 | 4.1 | 3.3 | 2.8 | 2.3 | 2.5 | 2.0 | - |
| 2006 | 4.1 | 3.8 | 3.4 | 3.6 | 2.0 | 2.1 | 2.2 | - |
| 2007 | 4.5 | 3.1 | 2.7 | 2.6 | 1.9 | 1.9 | 1.4 | - |
| 2008 | 4.3 | 4.7 | 4.7 | 2.0 | 2.7 | 2.1 | 2.0 | - |
| 2009 | 4.3 | 3.4 | 3.9 | 3.4 | 2.7 | 1.8 | 1.9 | - |
| 2010 | 4.5 | 5.0 | 4.8 | 4.4 | 1.6 | 1.8 | 1.0 | - |
| 2011 | 5.3 | 4.8 | 4.7 | 3.7 | 2.5 | 2.3 | 2.0 | - |
| 2012 | 3.8 | 5.8 | 5.5 | 4.2 | 2.6 | 2.1 | 2.2 | - |
| 2013 | 4.0 | 5.0 | 5.9 | 4.9 | 3.3 | 2.0 | 1.6 | - |
| 2014 | 3.6 | 5.2 | 5.9 | 4.8 | 4.4 | 3.3 | 1.8 | - |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' *' indicates a percentage of less than 0.05\%. ' - ' indicates data not available.
${ }^{\text {a }}$ Questions about use of ecstasy (MDMA) were not included in the questionnaires administered to the 35-, 40-, 45-, and 50-year-olds.
${ }^{\mathrm{b}}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

FIGURE 5-9
COCAINE
Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 55, by Age Group


# FIGURE 5-9 (cont.) <br> COCAINE <br> Trends in Annual Prevalence <br> among Respondents of Modal Ages 18 through 55, by Age Group 

|  | Age 18 | $\begin{gathered} \text { Ages } \\ \text { 19-20 } \end{gathered}$ | Ages 21-22 | Ages $\underline{23-24}$ | Ages $\underline{25-26}$ | Ages <br> 27-28 | Ages | $\begin{gathered} \text { Ages } \\ 31-32^{\text {a }} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 | Age 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 6.0 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 7.2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 9.0 | 11.8 |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 12.0 | 15.0 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 12.3 | 16.3 | 19.8 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 12.4 | 15.9 | 20.5 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 11.5 | 16.9 | 21.6 | 22.9 |  |  |  |  |  |  |  |  |  |
| 1983 | 11.4 | 13.8 | 21.2 | 20.8 |  |  |  |  |  |  |  |  |  |
| 1984 | 11.6 | 14.6 | 20.6 | 20.2 | 21.1 |  |  |  |  |  |  |  |  |
| 1985 | 13.1 | 15.4 | 19.2 | 23.5 | 21.6 |  |  |  |  |  |  |  |  |
| 1986 | 12.7 | 15.9 | 20.4 | 22.8 | 19.7 | 19.9 |  |  |  |  |  |  |  |
| 1987 | 10.3 | 13.4 | 16.0 | 16.2 | 17.4 | 15.6 |  |  |  |  |  |  |  |
| 1988 | 7.9 | 10.6 | 14.1 | 15.1 | 15.2 | 14.2 | 14.0 |  |  |  |  |  |  |
| 1989 | 6.5 | 7.6 | 11.8 | 12.0 | 10.7 | 12.2 | 11.6 |  |  |  |  |  |  |
| 1990 | 5.3 | 5.6 | 8.7 | 9.5 | 9.9 | 9.9 | 8.1 | 8.9 |  |  |  |  |  |
| 1991 | 3.5 | 3.8 | 6.1 | 7.2 | 7.4 | 6.9 | 6.7 | 6.8 |  |  |  |  |  |
| 1992 | 3.1 | 3.7 | 5.1 | 6.5 | 6.6 | 7.2 | 6.7 | 5.7 |  |  |  |  |  |
| 1993 | 3.3 | 3.2 | 4.1 | 4.6 | 6.3 | 5.8 | 4.7 | 5.1 |  |  |  |  |  |
| 1994 | 3.6 | 3.2 | 3.9 | 4.8 | 4.2 | 5.4 | 6.0 | 5.5 | 4.7 |  |  |  |  |
| 1995 | 4.0 | 3.9 | 4.3 | 4.5 | 4.6 | 4.6 | 4.5 | 3.8 | 4.3 |  |  |  |  |
| 1996 | 4.9 | 3.7 | 4.2 | 4.8 | 3.8 | 4.3 | 4.3 | 5.0 | 5.1 |  |  |  |  |
| 1997 | 5.5 | 4.5 | 5.8 | 4.9 | 4.3 | 3.7 | 4.3 | 5.1 | 4.1 |  |  |  |  |
| 1998 | 5.7 | 5.3 | 6.0 | 5.2 | 3.7 | 3.9 | 3.7 | 4.4 | 4.4 | 4.5 |  |  |  |
| 1999 | 6.2 | 5.7 | 5.6 | 6.8 | 5.0 | 3.9 | 3.6 | 4.1 | 4.6 | 4.1 |  |  |  |
| 2000 | 5.0 | 5.8 | 6.3 | 6.3 | 4.8 | 3.6 | 2.7 | 3.0 | 3.9 | 3.5 |  |  |  |
| 2001 | 4.8 | 6.0 | 7.5 | 5.4 | 5.4 | 4.8 | 2.8 | 3.5 | 3.5 | 3.0 |  |  |  |
| 2002 | 5.0 | 6.5 | 7.0 | 6.0 | 5.6 | 4.0 | 4.4 | - | 3.6 | 3.7 |  |  |  |
| 2003 | 4.8 | 6.3 | 7.4 | 8.3 | 5.4 | 5.5 | 4.9 | - | 2.7 | 3.1 | 3.4 |  |  |
| 2004 | 5.3 | 6.3 | 8.6 | 8.4 | 6.7 | 5.2 | 3.6 | - | 3.3 | 3.3 | 3.9 |  |  |
| 2005 | 5.1 | 6.4 | 7.5 | 6.7 | 8.2 | 5.7 | 4.5 | - | 2.8 | 2.8 | 2.9 |  |  |
| 2006 | 5.7 | 5.7 | 8.4 | 6.9 | 6.6 | 5.2 | 4.7 | - | 2.5 | 3.0 | 3.4 |  |  |
| 2007 | 5.2 | 5.8 | 7.2 | 5.8 | 6.4 | 5.9 | 4.1 | - | 2.0 | 2.7 | 3.6 |  |  |
| 2008 | 4.4 | 5.0 | 7.3 | 5.8 | 6.5 | 5.3 | 5.2 | - | 3.3 | 2.0 | 2.7 | 2.0 |  |
| 2009 | 3.4 | 3.2 | 6.9 | 6.9 | 4.5 | 4.7 | 5.6 | - | 2.5 | 2.2 | 3.4 | 2.6 |  |
| 2010 | 2.9 | 3.4 | 4.9 | 5.9 | 4.8 | 4.7 | 4.0 | - | 2.6 | 2.0 | 2.4 | 1.8 |  |
| 2011 | 2.9 | 3.9 | 4.3 | 6.1 | 6.0 | 3.4 | 3.3 | - | 2.9 | 1.3 | 2.1 | 1.6 |  |
| 2012 | 2.7 | 3.4 | 3.5 | 5.4 | 3.8 | 4.2 | 3.3 | - | 2.3 | 1.5 | 1.5 | 1.8 |  |
| 2013 | 2.6 | 2.6 | 4.8 | 4.2 | 4.4 | 3.5 | 3.4 | - | 3.3 | 2.2 | 2.0 | 1.7 | 1.0 |
| 2014 | 2.6 | 4.6 | 4.7 | 4.7 | 5.9 | 5.2 | 4.6 | - | 3.1 | 1.8 | 1.5 | 1.7 | 1.3 |

[^51]Notes. ' - ' indicates data not available.
${ }^{\text {a }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 55, by Age Group


## FIGURE 5-10 (cont.)

CRACK COCAINE

# Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group 

|  | Age 18 | $\begin{array}{r} \text { Ages } \\ 19-20 \\ \hline \end{array}$ | $\begin{aligned} & \text { Ages } \\ & \underline{21-22} \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Ages } \\ \underline{23-24} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{25-26} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{27-28} \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{29-30} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {a }} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 | Age 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1979 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1980 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1981 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1982 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1983 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1984 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1985 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1986 | 4.1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1987 | 3.9 | 2.7 | 4.1 | 3.4 | 2.4 | 3.0 |  |  |  |  |  |  |  |
| 1988 | 3.1 | 2.7 | 2.9 | 4.0 | 2.7 | 3.0 | 3.2 |  |  |  |  |  |  |
| 1989 | 3.1 | 1.8 | 3.6 | 3.1 | 1.9 | 2.0 | 2.8 |  |  |  |  |  |  |
| 1990 | 1.9 | 1.0 | 1.6 | 2.1 | 2.3 | 1.3 | 1.7 | 1.5 |  |  |  |  |  |
| 1991 | 1.5 | 0.6 | 1.3 | 1.4 | 1.5 | 1.6 | 1.1 | 1.3 |  |  |  |  |  |
| 1992 | 1.5 | 1.3 | 1.3 | 1.3 | 1.3 | 1.6 | 0.9 | 1.1 |  |  |  |  |  |
| 1993 | 1.5 | 1.2 | 1.1 | 1.2 | 1.3 | 1.7 | 1.0 | 0.9 |  |  |  |  |  |
| 1994 | 1.9 | 1.2 | 1.1 | 0.8 | 1.0 | 1.5 | 1.5 | 1.0 | 1.0 |  |  |  |  |
| 1995 | 2.1 | 1.0 | 1.3 | 1.0 | 1.1 | 0.9 | 1.5 | 1.0 | 1.0 |  |  |  |  |
| 1996 | 2.1 | 1.3 | 1.4 | 1.2 | 0.7 | 0.8 | 1.0 | 1.3 | 1.5 |  |  |  |  |
| 1997 | 2.4 | 1.3 | 1.2 | 1.0 | 0.7 | 0.6 | 1.5 | 0.7 | 0.8 |  |  |  |  |
| 1998 | 2.5 | 1.3 | 1.4 | 1.2 | 0.4 | 0.8 | 0.7 | 0.9 | 1.2 | 1.5 |  |  |  |
| 1999 | 2.7 | 2.4 | 1.2 | 1.5 | 0.9 | 0.8 | 1.3 | 0.8 | 1.1 | 1.0 |  |  |  |
| 2000 | 2.2 | 1.6 | 1.6 | 1.2 | 1.1 | 0.6 | 0.5 | 0.7 | 0.8 | 0.5 |  |  |  |
| 2001 | 2.1 | 1.7 | 1.4 | 1.1 | 1.0 | 1.3 | 0.7 | 1.0 | 0.7 | 0.6 |  |  |  |
| 2002 | 2.3 | 1.7 | 1.0 | 1.1 | 0.7 | 0.6 | 0.9 | - | 1.3 | 1.0 |  |  |  |
| 2003 | 2.2 | 1.8 | 1.2 | 1.1 | 0.5 | 0.6 | 0.8 | - | 0.7 | 0.8 | 1.1 |  |  |
| 2004 | 2.3 | 1.6 | 1.8 | 1.2 | 1.1 | 0.8 | 0.6 | - | 0.5 | 0.8 | 1.2 |  |  |
| 2005 | 1.9 | 1.3 | 1.8 | 1.1 | 0.8 | 1.0 | 1.2 | - | 0.7 | 0.8 | 0.6 |  |  |
| 2006 | 2.1 | 1.4 | 1.5 | 0.9 | 1.2 | 0.5 | 0.3 | - | 0.8 | 0.5 | 1.1 |  |  |
| 2007 | 1.9 | 0.8 | 0.8 | 1.0 | 1.5 | 1.0 | 0.3 | - | 0.5 | 0.3 | 0.7 |  |  |
| 2008 | 1.6 | 1.2 | 0.9 | 0.9 | 0.9 | 0.7 | 0.5 | - | 0.5 | 0.4 | 0.7 | 0.4 |  |
| 2009 | 1.3 | 0.8 | 0.7 | 0.9 | 0.6 | 0.6 | 0.7 | - | 0.8 | 0.4 | 1.0 | 0.7 |  |
| 2010 | 1.4 | 0.8 | 0.3 | 0.6 | 0.5 | 0.4 | 0.6 | - | 0.6 | 0.2 | 0.4 | 0.7 |  |
| 2011 | 1.0 | 0.6 | 0.5 | 0.6 | 0.5 | 0.7 | 0.6 | - | 0.1 | 0.2 | 0.6 | 0.5 |  |
| 2012 | 1.2 | 0.6 | 0.3 | 0.6 | 0.4 | 0.4 | 0.3 | - | 0.2 | 0.3 | 0.6 | 0.5 |  |
| 2013 | 1.1 | 0.3 | 0.7 | 0.2 | 0.5 | * | 0.3 | - | 0.2 | 0.1 | 0.5 | 0.4 | 0.3 |
| 2014 | 1.1 | 0.8 | 0.3 | 0.1 | 0.4 | 0.6 | 0.5 | - | 0.9 | 0.2 | 0.2 | 0.5 | 0.3 |

[^52]Notes. ' - ' indicates data not available.
${ }^{\text {a }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

## FIGURE 5-11

HEROIN
Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 55, by Age Group


## FIGURE 5-11 (cont.)

HEROIN

## Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group

|  | Age 18 | $\begin{array}{r} \text { Ages } \\ 19-20 \\ \hline \end{array}$ | $\begin{aligned} & \text { Ages } \\ & \underline{21-22} \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Ages } \\ \underline{23-24} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{25-26} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{27-28} \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{29-30} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {a }} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 | Age 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 0.8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 0.8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 0.8 | 0.4 |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 0.5 | 0.3 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 0.5 | 0.2 | 0.6 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 0.5 | 0.5 | 0.4 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 0.6 | 0.2 | 0.4 | 0.2 |  |  |  |  |  |  |  |  |  |
| 1983 | 0.6 | 0.2 | 0.3 | 0.6 |  |  |  |  |  |  |  |  |  |
| 1984 | 0.5 | 0.2 | 0.3 | 0.2 | 0.2 |  |  |  |  |  |  |  |  |
| 1985 | 0.6 | 0.1 | 0.3 | 0.2 | 0.3 |  |  |  |  |  |  |  |  |
| 1986 | 0.5 | 0.1 | 0.2 | 0.1 | 0.2 | 0.3 |  |  |  |  |  |  |  |
| 1987 | 0.5 | 0.2 | 0.3 | 0.1 | 0.3 | 0.3 |  |  |  |  |  |  |  |
| 1988 | 0.5 | 0.1 | 0.2 | 0.1 | 0.1 | 0.3 | 0.2 |  |  |  |  |  |  |
| 1989 | 0.6 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.3 |  |  |  |  |  |  |
| 1990 | 0.5 | * | 0.1 | 0.1 | 0.1 | * | * | 0.1 |  |  |  |  |  |
| 1991 | 0.4 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 |  |  |  |  |  |
| 1992 | 0.6 | 0.1 | 0.3 | 0.2 | 0.1 | 0.2 | 0.1 | * |  |  |  |  |  |
| 1993 | 0.5 | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 | * | * |  |  |  |  |  |
| 1994 | 0.6 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.1 | 0.3 |  |  |  |  |
| 1995 | 1.1 | 0.5 | 0.4 | 0.6 | 0.1 | 0.1 | 0.4 | 0.1 | 0.2 |  |  |  |  |
| 1996 | 1.0 | 0.7 | 0.5 | 0.3 | 0.3 | 0.1 | 0.2 | 0.3 | 0.2 |  |  |  |  |
| 1997 | 1.2 | 0.4 | 0.7 | 0.1 | 0.3 | 0.2 | 0.3 | 0.3 | 0.1 |  |  |  |  |
| 1998 | 1.0 | 1.1 | 0.4 | 0.2 | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.4 |  |  |  |
| 1999 | 1.1 | 0.6 | 0.4 | 0.5 | 0.2 | 0.3 | 0.1 | 0.2 | 0.4 | * |  |  |  |
| 2000 | 1.5 | 0.7 | 0.5 | 0.4 | 0.3 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |  |  |  |
| 2001 | 0.9 | 1.0 | 0.5 | 0.5 | 0.3 | 0.3 | 0.2 | 0.0 | 0.1 | 0.1 |  |  |  |
| 2002 | 1.0 | 0.4 | 0.1 | 0.3 | 0.3 | 0.1 | 0.2 | - | 0.2 | 0.3 |  |  |  |
| 2003 | 0.8 | 0.4 | 0.4 | 0.5 | 0.1 | 0.6 | 0.2 | - | 0.3 | 0.2 | 0.2 |  |  |
| 2004 | 0.9 | 0.4 | 0.5 | 0.3 | 0.2 | 0.1 | 0.3 | - | 0.1 | * | 0.2 |  |  |
| 2005 | 0.8 | 0.6 | 0.7 | 0.3 | 0.2 | 0.4 | 0.5 | - | * | * | * |  |  |
| 2006 | 0.8 | 0.5 | 0.6 | 0.3 | 0.4 | * | 0.1 | - | 0.3 | 0.2 | 0.1 |  |  |
| 2007 | 0.9 | 0.3 | 0.5 | 0.3 | 0.2 | 0.2 | 0.2 | - | 0.1 | 0.1 | 0.1 |  |  |
| 2008 | 0.7 | 0.6 | 0.9 | 0.6 | 0.3 | 0.2 | 0.3 | - | 0.1 | * | * | 0.2 |  |
| 2009 | 0.7 | 0.8 | 0.7 | 0.7 | 0.5 | 0.3 | 0.3 | - | 0.4 | * | 0.1 | 0.3 |  |
| 2010 | 0.9 | 0.4 | 0.3 | 0.8 | 0.6 | 0.3 | 0.2 | - | 0.3 | 0.1 | * | 0.2 |  |
| 2011 | 0.8 | 0.4 | 0.4 | 0.6 | 0.5 | 0.4 | 0.3 | - | 0.0 | 0.1 | 0.1 | * |  |
| 2012 | 0.6 | 0.4 | 0.6 | 0.3 | 0.7 | 0.3 | 0.4 | - | 0.1 | 0.1 | 0.1 | 0.1 |  |
| 2013 | 0.6 | 0.5 | 0.8 | 0.6 | 0.8 | 0.6 | 0.4 | - | 0.6 | 0.2 | 0.2 | 0.1 | * |
| 2014 | 0.6 | 0.2 | 0.3 | 0.4 | 0.7 | 0.4 | 0.2 | - | 0.6 | * | 0.1 | 0.3 | 0.2 |

[^53]${ }^{\text {a }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

FIGURE 5-12
NARCOTICS OTHER THAN HEROIN ${ }^{\text {a }}$
Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 55, by Age Group


# FIGURE 5-12 (cont.) <br> NARCOTICS OTHER THAN HEROIN ${ }^{\text {a }}$ Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group 

|  | Age 18 | $\begin{gathered} \text { Ages } \\ \underline{19-20} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{21-22} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{23-24} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{25-26} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{27-28} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{29-30} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {b }} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 | Age 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 5.7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 6.4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 6.0 | 4.7 |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 6.2 | 4.7 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 6.3 | 5.6 | 4.9 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 5.9 | 4.9 | 5.0 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 5.3 | 4.4 | 3.5 | 4.4 |  |  |  |  |  |  |  |  |  |
| 1983 | 5.1 | 4.2 | 4.0 | 3.3 |  |  |  |  |  |  |  |  |  |
| 1984 | 5.2 | 3.9 | 3.3 | 3.5 | 2.7 |  |  |  |  |  |  |  |  |
| 1985 | 5.9 | 3.4 | 3.8 | 3.8 | 3.4 |  |  |  |  |  |  |  |  |
| 1986 | 5.2 | 4.2 | 3.8 | 2.7 | 2.0 | 2.7 |  |  |  |  |  |  |  |
| 1987 | 5.3 | 3.7 | 3.6 | 2.4 | 2.5 | 3.0 |  |  |  |  |  |  |  |
| 1988 | 4.6 | 3.1 | 3.6 | 2.3 | 2.5 | 1.6 | 2.2 |  |  |  |  |  |  |
| 1989 | 4.4 | 3.0 | 3.4 | 2.4 | 2.4 | 2.9 | 2.1 |  |  |  |  |  |  |
| 1990 | 4.5 | 3.9 | 2.7 | 2.7 | 2.3 | 1.5 | 1.5 | 1.4 |  |  |  |  |  |
| 1991 | 3.5 | 3.2 | 2.4 | 2.4 | 2.4 | 1.8 | 1.8 | 1.7 |  |  |  |  |  |
| 1992 | 3.3 | 2.2 | 3.4 | 2.2 | 2.6 | 1.7 | 1.9 | 1.5 |  |  |  |  |  |
| 1993 | 3.6 | 2.5 | 2.9 | 2.0 | 2.0 | 1.4 | 1.3 | 1.5 |  |  |  |  |  |
| 1994 | 3.8 | 2.7 | 2.9 | 2.6 | 1.8 | 2.1 | 1.7 | 1.9 | 1.7 |  |  |  |  |
| 1995 | 4.7 | 4.7 | 3.1 | 2.5 | 1.8 | 2.4 | 1.9 | 1.8 | 1.6 |  |  |  |  |
| 1996 | 5.4 | 4.7 | 2.6 | 2.9 | 2.1 | 2.0 | 2.1 | 1.5 | 1.8 |  |  |  |  |
| 1997 | 6.2 | 4.3 | 5.0 | 2.7 | 2.2 | 2.0 | 2.6 | 2.2 | 2.0 |  |  |  |  |
| 1998 | 6.3 | 4.3 | 4.3 | 3.5 | 3.0 | 1.9 | 1.5 | 2.0 | 1.2 | 1.7 |  |  |  |
| 1999 | 6.7 | 5.5 | 4.2 | 4.1 | 3.0 | 1.8 | 1.8 | 2.2 | 2.1 | 1.4 |  |  |  |
| 2000 | 7.0 | 6.2 | 5.0 | 4.2 | 2.9 | 2.1 | 2.5 | 1.4 | 2.1 | 1.7 |  |  |  |
| 2001 | 6.7 | 7.0 | 6.8 | 4.3 | 3.7 | 3.1 | 2.9 | 2.9 | 2.4 | 1.6 |  |  |  |
| 2002 | 9.4 | 8.3 | 8.9 | 8.2 | 6.0 | 4.3 | 4.2 | - | 4.4 | 3.4 |  |  |  |
| 2003 | 9.3 | 9.9 | 9.6 | 9.7 | 6.4 | 6.7 | 5.1 | - | 3.4 | 2.3 | 2.8 |  |  |
| 2004 | 9.5 | 10.4 | 9.2 | 9.5 | 7.9 | 7.5 | 5.4 | - | 4.8 | 2.9 | 3.4 |  |  |
| 2005 | 9.0 | 9.9 | 10.2 | 7.6 | 8.8 | 6.9 | 7.8 | - | 4.3 | 3.4 | 3.1 |  |  |
| 2006 | 9.0 | 8.6 | 11.5 | 9.5 | 8.5 | 7.0 | 7.7 | - | 5.6 | 4.5 | 3.5 |  |  |
| 2007 | 9.2 | 8.2 | 9.4 | 9.4 | 8.5 | 8.1 | 6.1 | - | 3.8 | 5.8 | 4.4 |  |  |
| 2008 | 9.1 | 8.6 | 8.4 | 10.5 | 9.4 | 8.6 | 7.1 | - | 7.4 | 4.7 | 3.2 | 3.3 |  |
| 2009 | 9.2 | 6.4 | 11.0 | 8.0 | 9.8 | 6.7 | 8.9 | - | 6.0 | 4.7 | 4.1 | 4.0 |  |
| 2010 | 8.7 | 8.1 | 9.2 | 10.0 | 10.1 | 7.8 | 6.9 | - | 6.7 | 4.0 | 5.0 | 4.7 |  |
| 2011 | 8.7 | 7.7 | 7.7 | 7.8 | 9.0 | 7.6 | 6.7 | - | 5.8 | 4.9 | 4.0 | 4.2 |  |
| 2012 | 7.9 | 6.5 | 7.0 | 7.9 | 7.1 | 8.2 | 6.0 | - | 6.3 | 4.7 | 4.6 | 4.4 |  |
| 2013 | 7.1 | 7.1 | 6.9 | 7.2 | 6.9 | 6.8 | 6.5 | - | 6.6 | 4.1 | 3.0 | 3.1 | 2.5 |
| 2014 | 6.1 | 5.3 | 6.5 | 5.9 | 7.6 | 6.2 | 6.1 | - | 6.2 | 3.6 | 4.2 | 3.5 | 3.0 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' - ' indicates data not available.
${ }^{\text {a }}$ In 2002 the question text was changed on half of the questionnaire forms for 18 - to 30 -year-olds. The list of examples of narcotics other than heroin was updated. Talwin, laudanum, and paregoric-all of which had negligible rates of use by 2001were replaced by Vicodin, OxyContin, and Percocet. The 2001 data presented here are based on all forms. The 2002 data are based on the changed forms only. In 2003 the remaining forms were changed to the new wording. The data are based on all forms in 2003. Beginning in 2002 data were based on the changed question text for 35 - and 40 -year-olds.
${ }^{\mathrm{b}}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

FIGURE 5-13
AMPHETAMINES
Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 55, by Age Group


# FIGURE 5-13 (cont.) <br> AMPHETAMINES <br> Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group 

|  | Age 18 | $\begin{array}{r} \text { Ages } \\ 19-20 \\ \hline \end{array}$ | Ages $\underline{21-22}$ | $\begin{gathered} \text { Ages } \\ \underline{23-24} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 25-26 \end{gathered}$ | $\begin{aligned} & \text { Ages } \\ & \underline{27-28} \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Ages } \\ \underline{29-30} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {a }} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 | Age 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 15.8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 16.3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 17.1 | 18.2 |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 18.3 | 21.5 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 20.8 | 23.8 | 25.5 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 26.0 | 25.5 | 26.7 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 20.3 | 23.9 | 22.4 | 21.8 |  |  |  |  |  |  |  |  |  |
| 1983 | 17.9 | 19.7 | 19.9 | 18.3 |  |  |  |  |  |  |  |  |  |
| 1984 | 17.7 | 15.8 | 17.4 | 14.0 | 14.9 |  |  |  |  |  |  |  |  |
| 1985 | 15.8 | 14.5 | 13.0 | 14.1 | 12.5 |  |  |  |  |  |  |  |  |
| 1986 | 13.4 | 11.0 | 13.0 | 11.4 | 8.6 | 9.1 |  |  |  |  |  |  |  |
| 1987 | 12.2 | 9.1 | 9.9 | 7.9 | 8.3 | 7.9 |  |  |  |  |  |  |  |
| 1988 | 10.9 | 9.2 | 8.1 | 7.6 | 6.4 | 5.0 | 5.5 |  |  |  |  |  |  |
| 1989 | 10.8 | 6.9 | 6.8 | 5.1 | 5.5 | 4.3 | 5.0 |  |  |  |  |  |  |
| 1990 | 9.1 | 6.6 | 5.5 | 5.3 | 4.0 | 4.3 | 2.7 | 3.7 |  |  |  |  |  |
| 1991 | 8.2 | 4.9 | 4.9 | 3.8 | 3.4 | 4.0 | 2.9 | 3.7 |  |  |  |  |  |
| 1992 | 7.1 | 5.6 | 4.3 | 4.0 | 2.7 | 3.5 | 3.3 | 2.6 |  |  |  |  |  |
| 1993 | 8.4 | 5.4 | 4.8 | 3.8 | 2.9 | 2.6 | 2.4 | 2.4 |  |  |  |  |  |
| 1994 | 9.4 | 5.4 | 5.3 | 4.5 | 3.9 | 2.9 | 2.6 | 2.5 | 2.4 |  |  |  |  |
| 1995 | 9.3 | 7.2 | 5.7 | 3.0 | 3.5 | 2.7 | 2.5 | 1.5 | 1.9 |  |  |  |  |
| 1996 | 9.5 | 6.5 | 4.9 | 4.1 | 2.5 | 2.5 | 2.6 | 2.7 | 1.9 |  |  |  |  |
| 1997 | 10.2 | 5.9 | 7.3 | 3.8 | 3.2 | 2.0 | 2.7 | 2.6 | 1.7 |  |  |  |  |
| 1998 | 10.1 | 7.5 | 5.0 | 4.3 | 2.9 | 2.3 | 1.8 | 2.6 | 1.7 | 1.7 |  |  |  |
| 1999 | 10.2 | 7.9 | 5.0 | 4.5 | 3.4 | 2.6 | 2.4 | 1.9 | 1.9 | 1.2 |  |  |  |
| 2000 | 10.5 | 9.3 | 6.0 | 4.8 | 3.6 | 2.7 | 1.4 | 1.9 | 1.8 | 1.4 |  |  |  |
| 2001 | 10.9 | 8.7 | 7.9 | 5.2 | 3.6 | 3.2 | 1.9 | 1.5 | 1.9 | 1.0 |  |  |  |
| 2002 | 11.1 | 9.1 | 7.1 | 5.8 | 3.9 | 3.3 | 2.1 | - | 1.2 | 1.4 |  |  |  |
| 2003 | 9.9 | 8.6 | 7.5 | 5.8 | 3.1 | 3.6 | 2.6 | - | 2.2 | 1.0 | 1.4 |  |  |
| 2004 | 10.0 | 8.5 | 6.7 | 7.1 | 4.6 | 3.9 | 2.2 | - | 1.5 | 1.1 | 0.9 |  |  |
| 2005 | 8.6 | 7.0 | 6.8 | 5.0 | 3.8 | 2.6 | 3.0 | - | 1.2 | 0.8 | 0.5 |  |  |
| 2006 | 8.1 | 6.5 | 7.6 | 6.1 | 4.4 | 3.3 | 2.9 | - | 1.4 | 1.6 | 1.4 |  |  |
| 2007 | 7.5 | 6.7 | 7.5 | 5.9 | 4.2 | 3.3 | 2.1 | - | 1.5 | 0.8 | 1.1 |  |  |
| 2008 | 6.8 | 5.9 | 6.7 | 5.7 | 4.0 | 4.1 | 2.6 | - | 0.7 | 1.1 | 0.9 | 0.6 |  |
| 2009 | 6.6 | 6.2 | 9.0 | 5.4 | 5.3 | 3.5 | 2.9 | - | 1.9 | 0.9 | 0.7 | 1.0 |  |
| 2010 | 7.4 | 8.3 | 9.0 | 7.7 | 5.9 | 4.3 | 3.2 | - | 1.3 | 0.7 | 0.8 | 0.8 |  |
| 2011 | 8.2 | 8.7 | 8.8 | 8.8 | 5.3 | 3.8 | 3.2 | - | 1.4 | 0.6 | 1.3 | 1.0 |  |
| 2012 | 7.9 | 9.3 | 9.4 | 8.4 | 5.8 | 5.5 | 4.3 | - | 1.4 | 1.0 | 1.0 | 0.4 |  |
| 2013 | 9.2 | 8.6 | 9.5 | 7.5 | 5.6 | 5.7 | 2.9 | - | 2.2 | 1.5 | 1.2 | 1.0 | 0.7 |
| 2014 | 8.1 | 9.9 | 9.6 | 6.9 | 7.7 | 5.9 | 5.3 | - | 2.5 | 1.5 | 0.9 | 0.9 | 0.2 |

[^54]Notes. ' - ' indicates data not available.
${ }^{\text {a }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

## FIGURE 5-14

CRYSTAL METHAMPHETAMINE (ICE)
Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 32, ${ }^{\text {a }}$ by Age Group


## FIGURE 5-14 (cont.)

CRYSTAL METHAMPHETAMINE (ICE)
Trends in Annual Prevalence among Respondents of Modal Ages 18 through 32, ${ }^{\text {a }}$ by Age Group

|  | Age 18 | $\begin{array}{r} \text { Ages } \\ 19-20 \end{array}$ | $\begin{aligned} & \text { Ages } \\ & 21-22 \end{aligned}$ | $\begin{gathered} \text { Ages } \\ 23-24 \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 25-26 \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 27-28 \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 29-30 \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-322^{b} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |
| 1976 |  |  |  |  |  |  |  |  |
| 1977 |  |  |  |  |  |  |  |  |
| 1978 |  |  |  |  |  |  |  |  |
| 1979 |  |  |  |  |  |  |  |  |
| 1980 |  |  |  |  |  |  |  |  |
| 1981 |  |  |  |  |  |  |  |  |
| 1982 |  |  |  |  |  |  |  |  |
| 1983 |  |  |  |  |  |  |  |  |
| 1984 |  |  |  |  |  |  |  |  |
| 1985 |  |  |  |  |  |  |  |  |
| 1986 |  |  |  |  |  |  |  |  |
| 1987 |  |  |  |  |  |  |  |  |
| 1988 |  |  |  |  |  |  |  |  |
| 1989 |  |  |  |  |  |  |  |  |
| 1990 | 1.3 | 0.3 | 0.7 | 0.4 | 0.3 | 0.5 | 0.3 | 0.3 |
| 1991 | 1.4 | 0.4 | 0.5 | 0.4 | 0.2 | * | 0.1 | 0.2 |
| 1992 | 1.3 | 0.3 | 0.1 | 0.7 | 0.8 | 0.3 | 0.4 | 0.2 |
| 1993 | 1.7 | 1.4 | 1.0 | 0.9 | 0.1 | 0.6 | 0.3 | 0.2 |
| 1994 | 1.8 | 1.3 | 0.4 | 1.7 | 0.6 | 0.3 | 0.7 | 0.3 |
| 1995 | 2.4 | 1.1 | 2.2 | 0.8 | 0.2 | 0.8 | 0.6 | * |
| 1996 | 2.8 | 1.5 | 0.7 | 1.4 | 0.1 | 0.5 | 0.2 | 0.4 |
| 1997 | 2.3 | 0.7 | 1.5 | 1.3 | 0.4 | 0.3 | 0.7 | 0.7 |
| 1998 | 3.0 | 2.0 | 1.1 | 1.4 | 0.6 | * | * | 1.2 |
| 1999 | 1.9 | 1.4 | 0.6 | 1.5 | 0.8 | 0.4 | * | * |
| 2000 | 2.2 | 1.3 | 1.2 | 2.3 | 0.7 | 0.7 | * | * |
| 2001 | 2.5 | 1.9 | 0.9 | 0.6 | 1.1 | 0.8 | 0.3 | 0.7 |
| 2002 | 3.0 | 2.6 | 1.2 | 1.6 | 0.9 | 0.8 | 0.7 | - |
| 2003 | 3.0 | 2.6 | 1.2 | 1.6 | 0.9 | 0.8 | 0.7 | - |
| 2004 | 2.0 | 1.7 | 1.2 | 1.1 | 0.9 | 1.3 | 0.1 | - |
| 2005 | 2.3 | 2.4 | 1.7 | 1.0 | 1.7 | 1.3 | 1.7 | - |
| 2006 | 1.9 | 1.6 | 1.7 | 0.5 | 0.6 | 1.0 | 0.9 | - |
| 2007 | 1.6 | 0.9 | 0.9 | 1.8 | 1.2 | 0.6 | 0.7 | - |
| 2008 | 1.1 | 0.7 | 0.2 | 1.4 | 0.8 | 0.7 | 0.3 | - |
| 2009 | 0.9 | 0.5 | 0.5 | 1.3 | 0.8 | 0.7 | 0.3 | - |
| 2010 | 0.9 | 0.7 | 0.5 | 0.3 | 0.7 | * | 0.1 | - |
| 2011 | 1.2 | 0.4 | 0.5 | 0.3 | 0.3 | 0.9 | 0.1 | - |
| 2012 | 0.8 | 0.7 | 0.5 | 0.1 | 0.6 | 1.0 | 0.5 | - |
| 2013 | 1.1 | 0.3 | 0.2 | 1.2 | 1.2 | 1.0 | 1.2 | - |
| 2014 | 0.8 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.7 | - |

Source. The Monitoring the Future study, the University of Michigan.
Notes. '*'indicates a percentage of less than 0.05\%. ' - ' indicates data not available.
${ }^{\text {a }}$ Questions about use of ecstasy (MDMA) were not included in the questionnaires administered to the $35-$, 40-, 45-, and 50-year-olds.
${ }^{\mathrm{b}}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

FIGURE 5-15
SEDATIVES (BARBITURATES)
Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 55, by Age Group

(Figure continued on next page.)

# FIGURE 5-15 (cont.) <br> SEDATIVES (BARBITURATES) Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group 

|  | Age 18 | $\begin{array}{r} \text { Ages } \\ 19-20 \\ \hline \end{array}$ | $\begin{aligned} & \text { Ages } \\ & \underline{21-22} \end{aligned}$ | $\begin{gathered} \text { Ages } \\ \underline{23-24} \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 25-26 \end{gathered}$ | $\begin{aligned} & \text { Ages } \\ & \underline{27-28} \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Ages } \\ \underline{29-30} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {a }} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 | Age 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 9.6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 9.3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 8.1 | 6.4 |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 7.5 | 6.9 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 6.8 | 4.5 | 5.7 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 6.6 | 4.7 | 5.8 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 5.5 | 4.4 | 4.1 | 4.1 |  |  |  |  |  |  |  |  |  |
| 1983 | 5.2 | 3.5 | 3.1 | 3.7 |  |  |  |  |  |  |  |  |  |
| 1984 | 4.9 | 3.5 | 2.5 | 2.6 | 3.3 |  |  |  |  |  |  |  |  |
| 1985 | 4.6 | 2.0 | 2.3 | 3.0 | 3.4 |  |  |  |  |  |  |  |  |
| 1986 | 4.2 | 2.2 | 2.9 | 2.3 | 1.8 | 2.4 |  |  |  |  |  |  |  |
| 1987 | 3.6 | 1.9 | 2.7 | 1.5 | 2.1 | 2.3 |  |  |  |  |  |  |  |
| 1988 | 3.2 | 2.2 | 1.9 | 2.1 | 1.7 | 1.2 | 2.1 |  |  |  |  |  |  |
| 1989 | 3.3 | 1.6 | 1.8 | 1.8 | 1.3 | 1.7 | 1.4 |  |  |  |  |  |  |
| 1990 | 3.4 | 1.7 | 1.7 | 2.3 | 2.2 | 1.8 | 1.6 | 2.2 |  |  |  |  |  |
| 1991 | 3.4 | 1.8 | 1.4 | 2.0 | 2.5 | 1.4 | 1.6 | 2.2 |  |  |  |  |  |
| 1992 | 2.8 | 1.7 | 1.8 | 1.7 | 1.5 | 1.4 | 2.0 | 1.7 |  |  |  |  |  |
| 1993 | 3.4 | 1.9 | 1.6 | 1.7 | 1.8 | 2.3 | 1.1 | 1.5 |  |  |  |  |  |
| 1994 | 4.1 | 2.3 | 2.2 | 1.7 | 1.1 | 1.6 | 1.4 | 1.2 | 1.9 |  |  |  |  |
| 1995 | 4.7 | 3.4 | 2.6 | 1.4 | 1.2 | 1.4 | 1.7 | 1.1 | 1.7 |  |  |  |  |
| 1996 | 4.9 | 3.3 | 2.4 | 2.2 | 1.0 | 1.7 | 1.6 | 1.4 | 1.6 |  |  |  |  |
| 1997 | 5.1 | 4.0 | 3.5 | 1.5 | 1.5 | 1.0 | 1.8 | 0.8 | 1.3 |  |  |  |  |
| 1998 | 5.5 | 3.8 | 3.1 | 2.4 | 1.7 | 1.5 | 1.0 | 1.0 | 1.1 | 0.9 |  |  |  |
| 1999 | 5.8 | 5.0 | 2.5 | 3.2 | 1.8 | 1.1 | 1.2 | 0.9 | 1.6 | 1.5 |  |  |  |
| 2000 | 6.2 | 4.9 | 3.9 | 4.3 | 2.2 | 1.4 | 0.9 | 0.9 | 0.9 | 1.6 |  |  |  |
| 2001 | 5.7 | 5.2 | 4.8 | 3.4 | 2.7 | 2.1 | 1.3 | 1.1 | 1.8 | 1.4 |  |  |  |
| 2002 | 6.7 | 5.8 | 3.8 | 4.4 | 2.9 | 2.3 | 1.7 | - | 1.4 | 1.0 |  |  |  |
| 2003 | 6.0 | 5.2 | 4.8 | 3.9 | 2.5 | 3.1 | 1.5 | - | 1.3 | 0.7 | 1.0 |  |  |
| 2004 | 6.5 | 6.0 | 4.4 | 5.0 | 3.3 | 2.8 | 1.9 | - | 1.2 | 1.0 | 1.0 |  |  |
| 2005 | 7.2 | 5.1 | 5.0 | 3.8 | 4.0 | 2.8 | 4.4 | - | 1.4 | 1.3 | 1.4 |  |  |
| 2006 | 6.6 | 4.3 | 4.8 | 4.7 | 3.3 | 2.3 | 3.7 | - | 1.0 | 1.2 | 1.5 |  |  |
| 2007 | 6.2 | 4.4 | 4.1 | 4.6 | 3.8 | 4.0 | 3.2 | - | 3.8 | 2.4 | 2.5 |  |  |
| 2008 | 5.8 | 5.4 | 4.9 | 5.0 | 4.0 | 4.1 | 2.9 | - | 3.5 | 3.7 | 3.5 | 3.2 |  |
| 2009 | 5.2 | 3.5 | 5.6 | 2.9 | 4.1 | 2.6 | 2.9 | - | 3.1 | 2.9 | 2.7 | 3.0 |  |
| 2010 | 4.8 | 3.0 | 3.8 | 3.5 | 2.6 | 3.5 | 2.5 | - | 3.0 | 1.9 | 3.2 | 3.0 |  |
| 2011 | 4.3 | 2.9 | 2.8 | 3.5 | 4.1 | 2.7 | 2.2 | - | 4.1 | 2.2 | 2.0 | 2.5 |  |
| 2012 | 4.5 | 2.6 | 2.8 | 3.1 | 1.9 | 2.9 | 2.2 | - | 3.1 | 2.8 | 2.3 | 2.3 |  |
| 2013 | 4.8 | 3.1 | 3.6 | 3.6 | 4.2 | 2.7 | 2.6 | - | 2.6 | 2.7 | 2.7 | 1.8 | 2.2 |
| 2014 | 4.3 | 3.4 | 3.9 | 3.1 | 2.8 | 2.6 | 3.5 | - | 3.7 | 2.6 | 2.3 | 2.1 | 1.6 |

[^55]Notes. ' - ' indicates data not available.
${ }^{\text {a }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

FIGURE 5-16
TRANQUILIZERS
Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 55, by Age Group


## FIGURE 5-16 (cont.)

TRANQUILIZERS

## Trends in Annual Prevalence among Respondents of Modal Ages 18 through 55, by Age Group

|  | Age 18 | $\begin{array}{r} \text { Ages } \\ 19-20 \\ \hline \end{array}$ | $\begin{aligned} & \text { Ages } \\ & \underline{21-22} \end{aligned}$ | $\begin{gathered} \text { Ages } \\ \underline{23-24} \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 25-26 \end{gathered}$ | $\begin{aligned} & \text { Ages } \\ & \underline{27-28} \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Ages } \\ \underline{29-30} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {a }} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 | Age 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 10.3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 10.8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 9.9 | 9.4 |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 9.6 | 9.8 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 8.7 | 8.8 | 9.0 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 8.0 | 7.4 | 7.3 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 7.0 | 5.6 | 7.2 | 8.6 |  |  |  |  |  |  |  |  |  |
| 1983 | 6.9 | 5.1 | 5.8 | 6.6 |  |  |  |  |  |  |  |  |  |
| 1984 | 6.1 | 5.4 | 5.4 | 5.6 | 6.7 |  |  |  |  |  |  |  |  |
| 1985 | 6.1 | 4.4 | 4.5 | 6.2 | 7.1 |  |  |  |  |  |  |  |  |
| 1986 | 5.8 | 4.2 | 5.4 | 5.2 | 5.4 | 6.8 |  |  |  |  |  |  |  |
| 1987 | 5.5 | 4.0 | 5.5 | 4.1 | 5.8 | 6.2 |  |  |  |  |  |  |  |
| 1988 | 4.8 | 3.5 | 4.5 | 4.2 | 4.3 | 4.8 | 4.6 |  |  |  |  |  |  |
| 1989 | 3.8 | 3.4 | 3.5 | 3.8 | 2.9 | 4.6 | 4.1 |  |  |  |  |  |  |
| 1990 | 3.5 | 3.0 | 3.6 | 3.8 | 5.0 | 3.3 | 3.9 | 3.8 |  |  |  |  |  |
| 1991 | 3.6 | 2.7 | 3.2 | 4.0 | 3.9 | 3.8 | 4.2 | 4.1 |  |  |  |  |  |
| 1992 | 2.8 | 2.2 | 3.8 | 3.4 | 4.5 | 3.4 | 3.7 | 4.1 |  |  |  |  |  |
| 1993 | 3.5 | 2.1 | 3.1 | 3.2 | 3.7 | 3.8 | 2.7 | 2.7 |  |  |  |  |  |
| 1994 | 3.7 | 1.9 | 2.9 | 3.1 | 3.3 | 3.6 | 3.2 | 3.8 | 3.1 |  |  |  |  |
| 1995 | 4.4 | 3.7 | 3.5 | 3.0 | 3.1 | 3.4 | 3.5 | 1.8 | 3.6 |  |  |  |  |
| 1996 | 4.6 | 3.5 | 3.7 | 3.0 | 2.4 | 2.9 | 3.1 | 3.2 | 3.6 |  |  |  |  |
| 1997 | 4.7 | 4.7 | 3.6 | 2.9 | 1.9 | 2.0 | 4.1 | 4.1 | 3.0 |  |  |  |  |
| 1998 | 5.5 | 4.2 | 4.5 | 3.7 | 3.6 | 2.9 | 2.4 | 3.8 | 2.2 | 3.0 |  |  |  |
| 1999 | 5.8 | 4.1 | 4.2 | 4.2 | 3.5 | 2.6 | 2.1 | 2.7 | 3.4 | 2.0 |  |  |  |
| 2000 | 5.7 | 5.5 | 5.3 | 5.3 | 3.7 | 3.0 | 2.7 | 2.6 | 3.2 | 3.0 |  |  |  |
| 2001 | 6.9 | 6.1 | 7.1 | 5.4 | 5.3 | 3.9 | 4.2 | 3.0 | 4.3 | 3.7 |  |  |  |
| 2002 | 7.7 | 8.8 | 7.8 | 6.4 | 7.0 | 4.9 | 5.0 | - | 4.0 | 4.2 |  |  |  |
| 2003 | 6.7 | 8.0 | 7.0 | 7.2 | 6.3 | 5.2 | 4.3 | - | 3.8 | 2.2 | 2.9 |  |  |
| 2004 | 7.3 | 8.0 | 8.1 | 8.3 | 6.8 | 5.6 | 4.8 | - | 3.6 | 3.5 | 3.1 |  |  |
| 2005 | 6.8 | 6.5 | 8.5 | 6.3 | 7.7 | 4.3 | 7.4 | - | 4.4 | 3.8 | 2.9 |  |  |
| 2006 | 6.6 | 6.1 | 7.6 | 6.8 | 5.6 | 6.2 | 6.6 | - | 4.0 | 3.5 | 4.0 |  |  |
| 2007 | 6.2 | 5.7 | 7.6 | 7.5 | 7.4 | 7.6 | 5.0 | - | 3.5 | 4.5 | 3.9 |  |  |
| 2008 | 6.2 | 7.1 | 6.3 | 8.1 | 6.7 | 5.7 | 6.5 | - | 5.6 | 3.1 | 3.8 | 4.2 |  |
| 2009 | 6.3 | 4.3 | 7.7 | 7.1 | 7.4 | 5.7 | 7.2 | - | 5.0 | 4.1 | 2.5 | 2.9 |  |
| 2010 | 5.6 | 5.2 | 6.6 | 7.2 | 7.2 | 5.2 | 6.4 | - | 4.4 | 3.7 | 4.3 | 3.8 |  |
| 2011 | 5.6 | 5.3 | 5.2 | 6.6 | 7.2 | 5.2 | 5.1 | - | 6.2 | 3.0 | 3.8 | 2.7 |  |
| 2012 | 5.3 | 4.8 | 4.3 | 5.9 | 5.1 | 6.6 | 4.1 | - | 3.1 | 3.3 | 4.6 | 4.3 |  |
| 2013 | 4.6 | 4.8 | 4.8 | 6.8 | 4.6 | 6.1 | 5.5 | - | 4.7 | 3.8 | 3.3 | 4.1 | 2.6 |
| 2014 | 4.7 | 5.0 | 3.8 | 3.8 | 6.0 | 5.1 | 5.7 | - | 6.4 | 3.9 | 2.9 | 3.5 | 2.7 |

[^56]Notes. ' - ' indicates data not available.
${ }^{2}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

FIGURE 5-17
STEROIDS
Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 32, ${ }^{\text {a }}$ by Age Group

(Figure continued on next page.)

# FIGURE 5-17 (cont.) 

STEROIDS
Trends in Annual Prevalence among Respondents of Modal Ages 18 through 32, ${ }^{\text {a }}$ by Age Group

|  | Age 18 | $\begin{array}{r} \text { Ages } \\ 19-20 \end{array}$ | $\begin{gathered} \text { Ages } \\ \underline{21-22} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{23-24} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{25-26} \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Ages } \\ & \underline{27-28} \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Ages } \\ 29-30 \end{gathered}$ | $\begin{gathered} \text { Ages } \\ \underline{31-32} \\ \hline \underline{y} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |
| 1976 |  |  |  |  |  |  |  |  |
| 1977 |  |  |  |  |  |  |  |  |
| 1978 |  |  |  |  |  |  |  |  |
| 1979 |  |  |  |  |  |  |  |  |
| 1980 |  |  |  |  |  |  |  |  |
| 1981 |  |  |  |  |  |  |  |  |
| 1982 |  |  |  |  |  |  |  |  |
| 1983 |  |  |  |  |  |  |  |  |
| 1984 |  |  |  |  |  |  |  |  |
| 1985 |  |  |  |  |  |  |  |  |
| 1986 |  |  |  |  |  |  |  |  |
| 1987 |  |  |  |  |  |  |  |  |
| 1988 |  |  |  |  |  |  |  |  |
| 1989 | 1.9 |  |  |  |  |  |  |  |
| 1990 | 1.7 |  |  |  |  |  |  |  |
| 1991 | 1.4 | 0.4 | 0.3 | 0.4 | 0.5 | 0.8 | 0.4 | 0.1 |
| 1992 | 1.1 | 0.5 | 0.1 | 0.7 | 0.4 | * | 0.2 | * |
| 1993 | 1.2 | * | 0.9 | 0.4 | * | 0.2 | * | * |
| 1994 | 1.3 | 0.5 | 0.6 | * | 0.2 | 0.5 | * | 0.4 |
| 1995 | 1.5 | 0.4 | 0.6 | 0.8 | 0.2 | * | * | 0.2 |
| 1996 | 1.4 | 0.3 | 0.1 | 0.3 | 1.0 | * | * | 0.5 |
| 1997 | 1.4 | 0.6 | 0.2 | 0.9 | 0.5 | 0.2 | * | * |
| 1998 | 1.7 | 0.8 | 0.2 | 0.2 | 0.3 | 0.4 | * | 0.5 |
| 1999 | 1.8 | 0.5 | 1.1 | 0.1 | 1.0 | 0.1 | * | * |
| 2000 | 1.7 | 0.1 | 0.4 | 0.3 | 0.2 | 0.9 | * | 0.2 |
| 2001 | 2.4 | 0.4 | 0.9 | * | * | 0.6 | 0.3 | * |
| 2002 | 2.5 | 1.0 | 0.3 | 0.4 | 0.3 | * | 1.1 | - |
| 2003 | 2.1 | 0.5 | 0.8 | 0.2 | 0.5 | 0.3 | 1.1 | - |
| 2004 | 2.5 | 0.8 | 0.2 | 0.5 | 0.5 | 0.3 | * | - |
| 2005 | 1.5 | 0.6 | 0.4 | 0.6 | 0.6 | 0.3 | * | - |
| 2006 | 1.8 | 0.4 | 1.0 | * | * | 0.1 | * | - |
| 2007 | 1.4 | 0.6 | 1.0 | 0.3 | 0.5 | 1.0 | * | - |
| 2008 | 1.5 | 0.9 | 0.1 | 0.3 | 0.3 | 0.3 | 0.3 | - |
| 2009 | 1.5 | 1.0 | 0.4 | 1.3 | * | 0.6 | 0.3 | - |
| 2010 | 1.5 | 0.4 | 1.9 | 0.3 | 0.6 | 0.7 | * | - |
| 2011 | 1.2 | * | 0.3 | * | 0.2 | 0.3 | 0.1 | - |
| 2012 | 1.3 | 0.3 | 0.5 | 0.9 | 0.1 | 0.1 | 0.8 | - |
| 2013 | 1.5 | 0.7 | 0.3 | 0.6 | 0.4 | 0.5 | * | - |
| 2014 | 1.5 | 0.9 | 0.5 | 0.3 | 1.2 | 0.5 | 0.3 | - |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' *' indicates a percentage of less than 0.05\%. ' - ' indicates data not available.
${ }^{\text {a }}$ Questions about the use of steroids were not included in the questionnaires administered to the $35-$, 40-, 45-, and 50-year-olds.
${ }^{\mathrm{b}}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

FIGURE 5-18a
ALCOHOL
Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 55, by Age Group


FIGURE 5-18a (cont.)
ALCOHOL
Trends in Annual Prevalence
among Respondents of Modal Ages 18 through 55, by Age Group

|  | Age 18 | $\begin{array}{r} \text { Ages } \\ 19-20 \\ \hline \end{array}$ | $\begin{aligned} & \text { Ages } \\ & \underline{21-22} \end{aligned}$ | $\begin{gathered} \text { Ages } \\ \underline{23-24} \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 25-26 \end{gathered}$ | $\begin{aligned} & \text { Ages } \\ & \underline{27-28} \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Ages } \\ \underline{29-30} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {a }} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 | Age 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 85.7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 87.0 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 87.7 | 89.8 |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 88.1 | 90.6 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 87.9 | 89.0 | 90.2 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 87.0 | 90.6 | 91.6 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 86.8 | 88.6 | 91.8 | 90.0 |  |  |  |  |  |  |  |  |  |
| 1983 | 87.3 | 88.5 | 91.8 | 91.7 |  |  |  |  |  |  |  |  |  |
| 1984 | 86.0 | 88.7 | 89.1 | 90.4 | 88.2 |  |  |  |  |  |  |  |  |
| 1985 | 85.6 | 88.5 | 89.8 | 91.6 | 89.9 |  |  |  |  |  |  |  |  |
| 1986 | 84.5 | 88.2 | 90.1 | 88.1 | 88.8 | 87.8 |  |  |  |  |  |  |  |
| 1987 | 85.7 | 88.2 | 90.8 | 89.7 | 90.5 | 87.8 |  |  |  |  |  |  |  |
| 1988 | 85.3 | 86.6 | 89.5 | 89.7 | 89.4 | 87.7 | 87.2 |  |  |  |  |  |  |
| 1989 | 82.7 | 87.5 | 89.1 | 88.7 | 87.5 | 88.0 | 86.0 |  |  |  |  |  |  |
| 1990 | 80.6 | 85.6 | 89.6 | 88.2 | 87.5 | 86.4 | 86.9 | 84.8 |  |  |  |  |  |
| 1991 | 77.7 | 84.6 | 89.0 | 88.1 | 87.7 | 85.3 | 85.0 | 83.8 |  |  |  |  |  |
| 1992 | 76.8 | 81.9 | 87.9 | 89.1 | 86.7 | 85.6 | 84.5 | 85.0 |  |  |  |  |  |
| 1993 | 76.0 | 80.6 | 85.9 | 87.8 | 87.8 | 85.7 | 83.2 | 83.6 |  |  |  |  |  |
| 1994 | 73.0 | 78.2 | 84.4 | 86.6 | 86.0 | 84.5 | 82.6 | 83.6 | 82.5 |  |  |  |  |
| 1995 | 73.7 | 78.3 | 85.7 | 87.8 | 86.7 | 85.7 | 83.3 | 81.8 | 82.1 |  |  |  |  |
| 1996 | 72.5 | 79.6 | 84.4 | 85.7 | 85.9 | 85.3 | 84.7 | 82.0 | 83.5 |  |  |  |  |
| 1997 | 74.8 | 79.2 | 85.1 | 85.4 | 86.4 | 85.9 | 83.7 | 83.3 | 82.3 |  |  |  |  |
| 1998 | 74.3 | 79.7 | 86.3 | 84.9 | 83.8 | 85.3 | 84.2 | 83.2 | 82.3 | 77.3 |  |  |  |
| 1999 | 73.8 | 79.6 | 85.5 | 85.2 | 85.0 | 85.4 | 85.4 | 85.1 | 81.0 | 80.0 |  |  |  |
| 2000 | 73.2 | 79.7 | 86.2 | 87.2 | 84.2 | 82.9 | 83.7 | 82.9 | 81.0 | 80.3 |  |  |  |
| 2001 | 73.3 | 77.6 | 87.0 | 86.7 | 86.3 | 84.2 | 84.3 | 84.4 | 82.7 | 81.5 |  |  |  |
| 2002 | 71.5 | 78.0 | 85.8 | 88.0 | 88.3 | 84.7 | 83.6 | - | 85.1 | 80.0 |  |  |  |
| 2003 | 70.1 | 75.0 | 84.3 | 87.6 | 86.4 | 83.6 | 83.9 | - | 82.6 | 81.6 | 78.9 |  |  |
| 2004 | 70.6 | 75.2 | 86.8 | 87.2 | 87.9 | 86.1 | 83.5 | - | 86.7 | 79.8 | 79.2 |  |  |
| 2005 | 68.6 | 77.3 | 84.4 | 86.6 | 85.6 | 85.3 | 84.8 | - | 85.8 | 81.6 | 80.3 |  |  |
| 2006 | 66.5 | 77.9 | 83.6 | 88.2 | 86.4 | 86.9 | 84.0 | - | 83.7 | 80.5 | 82.8 |  |  |
| 2007 | 66.4 | 72.9 | 87.8 | 87.8 | 86.1 | 85.8 | 85.9 | - | 84.0 | 85.2 | 80.7 |  |  |
| 2008 | 65.5 | 72.3 | 88.6 | 86.6 | 86.4 | 84.7 | 87.8 | - | 84.3 | 82.0 | 80.3 | 79.0 |  |
| 2009 | 66.2 | 71.4 | 85.2 | 89.3 | 88.2 | 87.2 | 84.8 | - | 83.5 | 86.6 | 81.3 | 79.7 |  |
| 2010 | 65.2 | 68.8 | 83.4 | 89.2 | 86.7 | 86.6 | 86.7 | - | 85.0 | 86.1 | 81.1 | 80.3 |  |
| 2011 | 63.5 | 71.5 | 82.1 | 88.3 | 90.6 | 86.4 | 85.1 | - | 89.0 | 84.4 | 80.6 | 82.1 |  |
| 2012 | 63.5 | 70.3 | 81.8 | 85.0 | 89.4 | 86.7 | 84.2 | - | 87.2 | 83.0 | 84.4 | 80.2 |  |
| 2013 | 62.0 | 68.4 | 82.8 | 84.7 | 87.9 | 89.6 | 86.6 | - | 86.7 | 83.5 | 81.5 | 79.7 | 76.9 |
| 2014 | 60.2 | 67.3 | 84.0 | 85.3 | 85.5 | 90.2 | 86.4 | - | 89.2 | 84.1 | 84.8 | 83.3 | 77.9 |

[^57]${ }^{\text {a }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

FIGURE 5-18b
ALCOHOL
Trends in 30-Day Prevalence
among Respondents of Modal Ages 18 through 55, by Age Group

(Figure continued on next page.)

## FIGURE 5-18b (cont.) <br> ALCOHOL

## Trends in 30-Day Prevalence among Respondents of Modal Ages 18 through 55, by Age Group

|  | Age 18 | $\begin{array}{r} \text { Ages } \\ 19-20 \\ \hline \end{array}$ | $\begin{gathered} \text { Ages } \end{gathered}$ $\underline{21-22}$ | $\begin{gathered} \text { Ages } \\ 23-24 \end{gathered}$ | $\begin{array}{r}\text { Ages } \\ 25-26 \\ \hline\end{array}$ <br> 25-26 | Ages $27-28$ $\underline{27-28}$ | $\begin{gathered} \text { Ages } \\ \underline{29-30} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {a }} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 | Age 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 68.3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 71.2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 72.1 | 75.8 |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 71.8 | 76.5 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 72.0 | 76.6 | 78.3 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 70.7 | 77.0 | 80.5 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 69.7 | 75.7 | 79.9 | 77.9 |  |  |  |  |  |  |  |  |  |
| 1983 | 69.4 | 73.9 | 79.3 | 78.9 |  |  |  |  |  |  |  |  |  |
| 1984 | 67.2 | 73.6 | 78.1 | 77.6 | 75.2 |  |  |  |  |  |  |  |  |
| 1985 | 65.9 | 73.3 | 75.9 | 79.7 | 76.8 |  |  |  |  |  |  |  |  |
| 1986 | 65.3 | 72.9 | 77.2 | 75.7 | 76.3 | 73.6 |  |  |  |  |  |  |  |
| 1987 | 66.4 | 72.5 | 77.2 | 74.9 | 77.7 | 75.0 |  |  |  |  |  |  |  |
| 1988 | 63.9 | 69.6 | 76.2 | 75.9 | 74.1 | 74.6 | 72.1 |  |  |  |  |  |  |
| 1989 | 60.0 | 69.8 | 73.8 | 72.2 | 72.5 | 73.9 | 72.3 |  |  |  |  |  |  |
| 1990 | 57.1 | 66.6 | 74.1 | 73.6 | 71.4 | 70.9 | 70.2 | 68.4 |  |  |  |  |  |
| 1991 | 54.0 | 64.5 | 75.3 | 72.4 | 71.6 | 69.8 | 69.6 | 68.5 |  |  |  |  |  |
| 1992 | 51.3 | 61.0 | 72.7 | 73.0 | 69.8 | 69.1 | 69.2 | 67.8 |  |  |  |  |  |
| 1993 | 51.0 | 60.5 | 71.6 | 73.1 | 69.9 | 68.3 | 66.2 | 66.4 |  |  |  |  |  |
| 1994 | 50.1 | 59.9 | 70.4 | 70.1 | 70.4 | 69.9 | 67.0 | 67.7 | 65.1 |  |  |  |  |
| 1995 | 51.3 | 59.2 | 70.4 | 72.3 | 71.8 | 68.0 | 67.0 | 67.6 | 66.8 |  |  |  |  |
| 1996 | 50.8 | 58.1 | 69.5 | 69.2 | 68.5 | 69.3 | 68.0 | 65.5 | 64.7 |  |  |  |  |
| 1997 | 52.7 | 59.0 | 69.1 | 69.3 | 70.9 | 70.4 | 65.8 | 65.3 | 65.3 |  |  |  |  |
| 1998 | 52.0 | 59.7 | 69.4 | 70.3 | 66.3 | 68.7 | 66.1 | 65.2 | 62.9 | 59.8 |  |  |  |
| 1999 | 51.0 | 62.0 | 69.2 | 70.2 | 70.0 | 70.2 | 67.4 | 66.0 | 64.2 | 64.2 |  |  |  |
| 2000 | 50.0 | 59.1 | 70.5 | 71.5 | 68.7 | 64.6 | 65.2 | 66.7 | 64.0 | 63.1 |  |  |  |
| 2001 | 49.8 | 59.0 | 71.8 | 70.6 | 68.7 | 66.5 | 66.2 | 67.8 | 63.7 | 65.6 |  |  |  |
| 2002 | 48.6 | 59.2 | 71.9 | 71.9 | 71.2 | 67.9 | 65.4 | - | 67.3 | 65.4 |  |  |  |
| 2003 | 47.5 | 56.7 | 69.5 | 72.7 | 69.1 | 67.2 | 66.5 | - | 63.7 | 66.2 | 62.2 |  |  |
| 2004 | 48.0 | 56.7 | 72.4 | 72.8 | 72.4 | 68.8 | 64.5 | - | 70.3 | 63.7 | 65.7 |  |  |
| 2005 | 47.0 | 59.0 | 70.1 | 71.2 | 73.0 | 70.3 | 65.7 | - | 68.5 | 65.1 | 65.4 |  |  |
| 2006 | 45.3 | 57.6 | 69.7 | 73.8 | 70.4 | 72.8 | 68.7 | - | 63.3 | 62.3 | 66.7 |  |  |
| 2007 | 44.4 | 54.7 | 74.5 | 73.1 | 73.8 | 71.9 | 69.8 | - | 67.5 | 66.9 | 64.1 |  |  |
| 2008 | 43.1 | 53.8 | 74.4 | 74.0 | 73.9 | 69.8 | 73.4 | - | 65.0 | 66.3 | 67.9 | 63.7 |  |
| 2009 | 43.5 | 52.9 | 72.9 | 78.4 | 75.1 | 70.7 | 71.5 | - | 65.6 | 71.0 | 66.5 | 64.5 |  |
| 2010 | 41.2 | 51.2 | 71.6 | 74.6 | 73.6 | 72.2 | 69.1 | - | 67.7 | 72.7 | 67.0 | 67.1 |  |
| 2011 | 40.0 | 52.3 | 69.3 | 75.7 | 76.4 | 71.8 | 69.6 | - | 71.1 | 68.6 | 65.2 | 68.3 |  |
| 2012 | 41.5 | 54.1 | 70.5 | 73.5 | 76.7 | 73.4 | 70.8 | - | 69.5 | 68.0 | 72.0 | 65.7 |  |
| 2013 | 39.2 | 51.5 | 70.5 | 72.7 | 75.9 | 73.9 | 71.1 | - | 70.0 | 69.0 | 67.2 | 66.7 | 61.9 |
| 2014 | 37.4 | 50.1 | 71.1 | 71.0 | 73.2 | 77.3 | 73.2 | - | 73.1 | 67.8 | 71.6 | 66.5 | 64.4 |

[^58]${ }^{\text {a }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

## FIGURE 5-18c

ALCOHOL
Trends in 30-Day Prevalence of Daily Use
among Respondents of Modal Ages 18 through 55, by Age Group

(Figure continued on next page.)

## FIGURE 5-18c (cont.) <br> ALCOHOL

## Trends in 30-Day Prevalence of Daily Use among Respondents of Modal Ages 18 through 55, by Age Group

|  | Age 18 | $\begin{gathered} \text { Ages } \\ 19-20 \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Ages } \\ & \underline{21-22} \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Ages } \\ & \underline{23-24} \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Ages } \\ 25-26 \end{gathered}$ | $\begin{aligned} & \text { Ages } \\ & \underline{27-28} \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Ages } \\ \underline{29-30} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {a }} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 | Age 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 5.6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 6.1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 5.7 | 7.6 |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 6.9 | 7.7 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 6.0 | 7.0 | 8.4 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 6.0 | 7.2 | 7.7 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 5.7 | 7.5 | 7.8 | 8.2 |  |  |  |  |  |  |  |  |  |
| 1983 | 5.5 | 5.3 | 8.0 | 8.5 |  |  |  |  |  |  |  |  |  |
| 1984 | 4.8 | 5.8 | 7.7 | 6.8 | 7.5 |  |  |  |  |  |  |  |  |
| 1985 | 5.0 | 5.6 | 6.4 | 7.3 | 7.5 |  |  |  |  |  |  |  |  |
| 1986 | 4.8 | 5.3 | 6.3 | 6.2 | 5.3 | 7.3 |  |  |  |  |  |  |  |
| 1987 | 4.8 | 5.7 | 7.0 | 6.1 | 6.9 | 7.2 |  |  |  |  |  |  |  |
| 1988 | 4.2 | 4.8 | 7.2 | 6.2 | 6.3 | 5.7 | 7.6 |  |  |  |  |  |  |
| 1989 | 4.2 | 4.7 | 5.0 | 5.1 | 6.0 | 6.9 | 5.6 |  |  |  |  |  |  |
| 1990 | 3.7 | 4.0 | 4.9 | 5.3 | 4.8 | 4.9 | 5.6 | 6.4 |  |  |  |  |  |
| 1991 | 3.6 | 3.7 | 4.9 | 5.4 | 4.9 | 6.2 | 5.9 | 5.2 |  |  |  |  |  |
| 1992 | 3.4 | 3.3 | 4.4 | 4.2 | 6.1 | 4.4 | 5.8 | 6.0 |  |  |  |  |  |
| 1993 | 2.5 | 3.2 | 5.1 | 4.9 | 5.1 | 4.7 | 4.6 | 5.7 |  |  |  |  |  |
| 1994 | 2.9 | 3.3 | 3.9 | 3.7 | 3.3 | 5.4 | 5.0 | 4.7 | 7.2 |  |  |  |  |
| 1995 | 3.5 | 3.1 | 3.5 | 4.1 | 4.4 | 4.7 | 4.1 | 4.9 | 5.5 |  |  |  |  |
| 1996 | 3.7 | 2.7 | 5.1 | 4.8 | 3.7 | 3.6 | 5.1 | 5.1 | 7.5 |  |  |  |  |
| 1997 | 3.9 | 4.8 | 4.6 | 4.5 | 5.1 | 4.2 | 5.9 | 5.0 | 4.8 |  |  |  |  |
| 1998 | 3.9 | 3.6 | 5.7 | 3.9 | 3.4 | 3.1 | 3.4 | 4.8 | 6.0 | 6.9 |  |  |  |
| 1999 | 3.4 | 4.1 | 5.9 | 4.7 | 5.1 | 4.3 | 5.2 | 4.4 | 5.2 | 7.5 |  |  |  |
| 2000 | 2.9 | 3.9 | 5.3 | 4.2 | 3.8 | 3.5 | 3.9 | 4.2 | 5.2 | 6.5 |  |  |  |
| 2001 | 3.6 | 3.6 | 6.2 | 4.6 | 5.0 | 2.7 | 4.3 | 4.7 | 5.8 | 7.5 |  |  |  |
| 2002 | 3.5 | 3.9 | 5.6 | 5.0 | 5.4 | 3.7 | 3.8 | - | 4.8 | 6.6 |  |  |  |
| 2003 | 3.2 | 3.6 | 5.7 | 6.5 | 4.6 | 5.1 | 3.5 | - | 3.9 | 7.8 | 7.8 |  |  |
| 2004 | 2.8 | 3.7 | 5.7 | 5.5 | 4.3 | 3.5 | 3.8 | - | 6.3 | 6.6 | 9.0 |  |  |
| 2005 | 3.1 | 3.6 | 6.0 | 5.8 | 6.0 | 4.6 | 5.8 | - | 6.1 | 7.2 | 8.5 |  |  |
| 2006 | 3.0 | 4.3 | 5.9 | 5.7 | 5.2 | 5.8 | 4.5 | - | 5.3 | 7.0 | 9.5 |  |  |
| 2007 | 3.1 | 3.4 | 6.1 | 6.0 | 6.5 | 6.2 | 5.1 | - | 8.1 | 6.1 | 8.8 |  |  |
| 2008 | 2.8 | 2.3 | 5.5 | 6.3 | 6.4 | 6.3 | 4.8 | - | 5.4 | 7.2 | 9.9 | 11.0 |  |
| 2009 | 2.5 | 2.5 | 5.7 | 6.5 | 5.9 | 6.5 | 7.1 | - | 6.9 | 8.5 | 9.3 | 9.2 |  |
| 2010 | 2.7 | 1.8 | 5.4 | 4.9 | 5.6 | 5.7 | 6.1 | - | 6.0 | 7.8 | 7.2 | 10.5 |  |
| 2011 | 2.1 | 2.4 | 6.1 | 5.2 | 5.7 | 7.0 | 5.3 | - | 7.6 | 7.4 | 7.7 | 11.3 |  |
| 2012 | 2.5 | 3.0 | 4.9 | 6.4 | 5.9 | 7.5 | 7.2 | - | 6.3 | 8.3 | 9.5 | 10.6 |  |
| 2013 | 2.2 | 2.7 | 4.9 | 4.9 | 6.9 | 6.5 | 5.8 | - | 6.7 | 8.7 | 8.4 | 10.8 | 10.5 |
| 2014 | 1.9 | 2.9 | 5.6 | 5.2 | 5.7 | 5.8 | 7.6 | - | 8.0 | 7.3 | 8.8 | 9.8 | 10.0 |

[^59]Notes. ' - ' indicates data not available.
${ }^{\text {a }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

FIGURE 5-18d
ALCOHOL
Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row
among Respondents of Modal Ages 18 through 55, by Age Group

(Figure continued on next page.)

## FIGURE 5-18d (cont.) <br> ALCOHOL

## Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row among Respondents of Modal Ages 18 through 55, by Age Group

|  | Age 18 | $\begin{array}{r} \text { Ages } \\ 19-20 \\ \hline \end{array}$ | $\begin{gathered} \text { Ages } \end{gathered}$ $\underline{21-22}$ | $\begin{gathered} \text { Ages } \\ 23-24 \end{gathered}$ | $\begin{array}{r}\text { Ages } \\ 25-26 \\ \hline\end{array}$ <br> 25-26 | Ages $27-28$ $\underline{27-28}$ | $\begin{gathered} \text { Ages } \\ \underline{29-30} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {a }} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 | Age 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 37.1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 39.4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 40.3 | 41.1 |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 41.2 | 42.1 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 41.2 | 42.7 | 40.7 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 41.4 | 43.1 | 43.6 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 40.5 | 41.7 | 41.6 | 37.1 |  |  |  |  |  |  |  |  |  |
| 1983 | 40.8 | 40.9 | 42.3 | 39.3 |  |  |  |  |  |  |  |  |  |
| 1984 | 38.7 | 41.0 | 40.4 | 35.1 | 33.7 |  |  |  |  |  |  |  |  |
| 1985 | 36.7 | 41.2 | 40.4 | 37.3 | 33.3 |  |  |  |  |  |  |  |  |
| 1986 | 36.8 | 41.2 | 40.8 | 35.8 | 31.5 | 30.1 |  |  |  |  |  |  |  |
| 1987 | 37.5 | 37.2 | 41.0 | 36.6 | 33.3 | 32.2 |  |  |  |  |  |  |  |
| 1988 | 34.7 | 37.3 | 42.0 | 37.0 | 30.7 | 28.0 | 26.7 |  |  |  |  |  |  |
| 1989 | 33.0 | 36.9 | 39.3 | 35.4 | 31.7 | 29.8 | 26.3 |  |  |  |  |  |  |
| 1990 | 32.2 | 36.0 | 38.1 | 35.5 | 32.0 | 28.9 | 25.2 | 25.4 |  |  |  |  |  |
| 1991 | 29.8 | 37.0 | 40.3 | 34.4 | 31.5 | 28.8 | 24.3 | 25.1 |  |  |  |  |  |
| 1992 | 27.9 | 34.0 | 39.9 | 34.9 | 31.8 | 29.2 | 25.7 | 23.7 |  |  |  |  |  |
| 1993 | 27.5 | 34.6 | 40.3 | 35.0 | 32.1 | 29.0 | 25.1 | 24.8 |  |  |  |  |  |
| 1994 | 28.2 | 34.5 | 40.5 | 32.9 | 30.9 | 28.5 | 27.5 | 24.6 | 21.1 |  |  |  |  |
| 1995 | 29.8 | 31.7 | 38.5 | 35.6 | 28.7 | 26.9 | 26.3 | 24.7 | 20.0 |  |  |  |  |
| 1996 | 30.2 | 32.7 | 38.2 | 36.3 | 30.0 | 29.7 | 24.9 | 24.3 | 21.9 |  |  |  |  |
| 1997 | 31.3 | 36.5 | 40.2 | 33.4 | 31.5 | 29.3 | 26.5 | 24.7 | 22.3 |  |  |  |  |
| 1998 | 31.5 | 34.5 | 39.7 | 35.3 | 31.3 | 28.9 | 26.6 | 22.8 | 20.4 | 19.7 |  |  |  |
| 1999 | 30.8 | 35.3 | 40.2 | 38.1 | 33.0 | 32.0 | 26.9 | 24.1 | 21.4 | 20.5 |  |  |  |
| 2000 | 30.0 | 35.3 | 40.6 | 37.0 | 31.5 | 29.1 | 24.0 | 24.1 | 22.2 | 18.3 |  |  |  |
| 2001 | 29.7 | 36.3 | 42.4 | 38.2 | 33.7 | 29.2 | 27.3 | 24.3 | 20.6 | 21.3 |  |  |  |
| 2002 | 28.6 | 36.0 | 40.7 | 39.4 | 34.9 | 28.9 | 25.8 | - | 22.9 | 20.8 |  |  |  |
| 2003 | 27.9 | 33.6 | 39.9 | 39.3 | 35.1 | 31.1 | 26.4 | - | 22.4 | 20.7 | 20.1 |  |  |
| 2004 | 29.2 | 35.5 | 41.7 | 40.4 | 36.4 | 31.3 | 26.9 | - | 21.6 | 20.2 | 19.2 |  |  |
| 2005 | 27.1 | 36.3 | 40.4 | 39.2 | 37.7 | 31.5 | 29.1 | - | 23.0 | 22.2 | 19.6 |  |  |
| 2006 | 25.4 | 33.9 | 42.2 | 43.2 | 36.0 | 32.5 | 29.1 | - | 22.5 | 20.0 | 19.8 |  |  |
| 2007 | 25.9 | 31.4 | 45.8 | 39.8 | 38.3 | 33.4 | 28.4 | - | 23.6 | 20.4 | 19.4 |  |  |
| 2008 | 24.6 | 30.7 | 42.1 | 42.2 | 40.0 | 35.0 | 31.9 | - | 24.4 | 21.9 | 20.9 | 20.0 |  |
| 2009 | 25.2 | 28.1 | 41.2 | 41.7 | 39.5 | 34.2 | 32.1 | - | 21.8 | 25.1 | 21.8 | 17.9 |  |
| 2010 | 23.2 | 28.2 | 39.3 | 40.1 | 36.6 | 35.6 | 32.6 | - | 23.0 | 21.6 | 22.1 | 17.8 |  |
| 2011 | 21.6 | 29.8 | 39.2 | 39.9 | 38.7 | 35.0 | 30.4 | - | 25.7 | 22.2 | 20.0 | 19.1 |  |
| 2012 | 23.7 | 29.5 | 39.1 | 37.5 | 36.3 | 35.1 | 32.8 | - | 24.3 | 22.2 | 21.0 | 19.0 |  |
| 2013 | 22.1 | 27.2 | 40.2 | 37.7 | 37.0 | 33.6 | 30.9 | - | 24.4 | 24.3 | 20.1 | 20.3 | 17.0 |
| 2014 | 19.4 | 28.2 | 38.4 | 33.6 | 32.2 | 35.5 | 31.0 | - | 24.0 | 22.3 | 23.4 | 21.9 | 17.7 |

[^60]${ }^{\text {a }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

FIGURE 5-19a
CIGARETTES

## Trends in 30-Day Prevalence

among Respondents of Modal Ages 18 through 55, by Age Group


# FIGURE 5-19a (cont.) 

CIGARETTES

# Trends in 30-Day Prevalence among Respondents of Modal Ages 18 through 55, by Age Group 

|  | Age 18 | $\begin{array}{r} \text { Ages } \\ \underline{19-20} \\ \hline \end{array}$ | Ages $\underline{21-22}$ | Ages $\underline{23-24}$ | Ages $25-26$ <br> 25-26 | Ages $\underline{27-28}$ | $\begin{gathered} \text { Ages } \\ \underline{29-30} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ages } \\ 31-32^{\text {a }} \end{gathered}$ | Age 35 | Age 40 | Age 45 | Age 50 | Age 55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 38.8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 38.4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 36.7 | 39.3 |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 34.4 | 39.3 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 30.5 | 36.0 | 37.9 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 29.4 | 34.9 | 37.5 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 30.0 | 32.1 | 36.2 | 36.7 |  |  |  |  |  |  |  |  |  |
| 1983 | 30.3 | 32.5 | 33.5 | 36.5 |  |  |  |  |  |  |  |  |  |
| 1984 | 29.3 | 31.5 | 32.2 | 33.6 | 33.7 |  |  |  |  |  |  |  |  |
| 1985 | 30.1 | 30.9 | 32.4 | 31.9 | 35.3 |  |  |  |  |  |  |  |  |
| 1986 | 29.6 | 30.0 | 32.0 | 29.9 | 31.3 | 32.5 |  |  |  |  |  |  |  |
| 1987 | 29.4 | 30.1 | 32.4 | 31.7 | 28.2 | 32.3 |  |  |  |  |  |  |  |
| 1988 | 28.7 | 28.4 | 29.8 | 29.9 | 27.3 | 29.1 | 28.9 |  |  |  |  |  |  |
| 1989 | 28.6 | 27.7 | 29.4 | 29.4 | 29.5 | 27.2 | 30.2 |  |  |  |  |  |  |
| 1990 | 29.4 | 27.2 | 28.6 | 27.8 | 28.4 | 26.5 | 27.8 | 28.3 |  |  |  |  |  |
| 1991 | 28.3 | 27.6 | 28.3 | 28.5 | 28.3 | 28.2 | 24.4 | 28.1 |  |  |  |  |  |
| 1992 | 27.8 | 29.5 | 29.0 | 28.4 | 26.3 | 27.8 | 23.8 | 27.5 |  |  |  |  |  |
| 1993 | 29.9 | 29.0 | 29.2 | 28.1 | 27.7 | 25.4 | 25.8 | 25.3 |  |  |  |  |  |
| 1994 | 31.2 | 31.3 | 28.8 | 27.0 | 26.4 | 25.0 | 25.5 | 24.9 | 24.8 |  |  |  |  |
| 1995 | 33.5 | 33.4 | 31.8 | 28.0 | 25.7 | 26.8 | 25.2 | 25.0 | 26.1 |  |  |  |  |
| 1996 | 34.0 | 34.0 | 32.3 | 30.1 | 26.8 | 26.0 | 23.4 | 23.8 | 25.4 |  |  |  |  |
| 1997 | 36.5 | 34.0 | 32.3 | 29.1 | 27.6 | 24.9 | 24.6 | 24.3 | 22.3 |  |  |  |  |
| 1998 | 35.1 | 33.9 | 33.7 | 30.9 | 29.9 | 25.6 | 23.1 | 22.5 | 23.6 | 24.3 |  |  |  |
| 1999 | 34.6 | 36.1 | 33.4 | 32.4 | 25.6 | 22.9 | 22.7 | 24.0 | 22.6 | 23.5 |  |  |  |
| 2000 | 31.4 | 32.2 | 33.6 | 29.5 | 28.2 | 26.5 | 21.2 | 22.7 | 24.0 | 23.5 |  |  |  |
| 2001 | 29.5 | 32.8 | 34.0 | 31.1 | 28.6 | 24.2 | 20.4 | 21.2 | 20.4 | 22.9 |  |  |  |
| 2002 | 26.7 | 29.8 | 32.6 | 31.9 | 27.3 | 24.7 | 24.4 | - | 21.9 | 18.9 |  |  |  |
| 2003 | 24.4 | 27.0 | 30.5 | 31.0 | 27.0 | 26.3 | 22.0 | - | 20.1 | 21.9 | 20.7 |  |  |
| 2004 | 25.0 | 27.9 | 31.3 | 31.5 | 29.6 | 25.9 | 21.9 | - | 20.0 | 20.0 | 20.2 |  |  |
| 2005 | 23.2 | 27.5 | 29.2 | 29.3 | 30.7 | 26.3 | 23.5 | - | 19.1 | 21.4 | 22.1 |  |  |
| 2006 | 21.6 | 24.6 | 27.3 | 28.1 | 29.1 | 26.3 | 24.4 | - | 17.7 | 17.3 | 18.9 |  |  |
| 2007 | 21.6 | 22.6 | 27.8 | 26.7 | 27.5 | 26.6 | 22.9 | - | 17.8 | 18.3 | 17.6 |  |  |
| 2008 | 20.4 | 21.8 | 24.5 | 26.5 | 24.5 | 25.7 | 24.0 | - | 20.4 | 17.8 | 17.3 | 18.8 |  |
| 2009 | 20.1 | 21.2 | 25.2 | 24.1 | 22.6 | 23.9 | 24.0 | - | 17.3 | 16.2 | 17.8 | 17.0 |  |
| 2010 | 19.2 | 19.6 | 22.8 | 23.0 | 24.3 | 22.5 | 23.9 | - | 18.3 | 15.2 | 18.3 | 19.9 |  |
| 2011 | 18.7 | 18.5 | 23.3 | 22.0 | 23.4 | 19.6 | 20.5 | - | 19.7 | 15.1 | 15.3 | 16.0 |  |
| 2012 | 17.1 | 16.8 | 18.9 | 20.4 | 20.7 | 22.0 | 18.6 | - | 18.0 | 12.8 | 15.9 | 15.4 |  |
| 2013 | 16.3 | 18.4 | 20.8 | 21.4 | 19.5 | 20.0 | 16.5 | - | 17.8 | 16.6 | 13.4 | 15.3 | 14.0 |
| 2014 | 13.6 | 15.8 | 18.9 | 18.3 | 16.3 | 18.1 | 19.0 | - | 18.0 | 13.5 | 15.4 | 14.5 | 14.6 |

[^61]Notes. ' - ' indicates data not available.
${ }^{\text {a }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

FIGURE 5-19b
CIGARETTES
Trends in 30-Day Prevalence of Daily Use
among Respondents of Modal Ages 18 through 55, by Age Group


## FIGURE 5-19b (cont.)

CIGARETTES
Trends in 30-Day Prevalence of Daily Use
among Respondents of Modal Ages 18 through 55, by Age Group
$\begin{array}{lccccccccccccc}\text { Age 18 } & \text { Ages } & \text { Ages } & \text { Ages } & \text { Ages } & \text { Ages } & \text { Ages } & \text { Ages } & \text { Age } 35 & \text { Age } 40 & \text { Age 45 } & \underline{\text { Age } 50} \text { Age } 55\end{array}$


[^62]Notes. ' - ' indicates data not available.
${ }^{\text {a }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

## FIGURE 5-19c

CIGARETTES
Trends in 30-Day Prevalence of Smoking a Half Pack or More per Day
among Respondents of Modal Ages 18 through 55, by Age Group

(Figure continued on next page.)

FIGURE 5-19c (cont.)
CIGARETTES Trends in 30-Day Prevalence of Smoking a Half Pack or More per Day
among Respondents of Modal Ages 18 through 55, by Age Group


| Year |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1976 | 19.2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977 | 19.4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978 | 18.8 | 23.8 |  |  |  |  |  |  |  |  |  |  |  |
| 1979 | 16.5 | 24.6 |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | 14.3 | 21.9 | 25.2 |  |  |  |  |  |  |  |  |  |  |
| 1981 | 13.5 | 19.3 | 25.3 |  |  |  |  |  |  |  |  |  |  |
| 1982 | 14.2 | 18.0 | 23.0 | 24.6 |  |  |  |  |  |  |  |  |  |
| 1983 | 13.8 | 17.2 | 19.7 | 25.1 |  |  |  |  |  |  |  |  |  |
| 1984 | 12.3 | 17.2 | 21.2 | 22.8 | 24.1 |  |  |  |  |  |  |  |  |
| 1985 | 12.5 | 16.6 | 20.4 | 20.8 | 24.8 |  |  |  |  |  |  |  |  |
| 1986 | 11.4 | 16.2 | 19.3 | 21.1 | 22.0 | 23.2 |  |  |  |  |  |  |  |
| 1987 | 11.4 | 15.6 | 19.3 | 21.6 | 19.9 | 23.3 |  |  |  |  |  |  |  |
| 1988 | 10.6 | 13.8 | 17.3 | 18.4 | 18.6 | 20.6 | 22.3 |  |  |  |  |  |  |
| 1989 | 11.2 | 13.0 | 16.4 | 18.6 | 20.6 | 19.0 | 22.0 |  |  |  |  |  |  |
| 1990 | 11.3 | 14.3 | 15.0 | 17.4 | 19.6 | 18.2 | 20.5 | 20.8 |  |  |  |  |  |
| 1991 | 10.7 | 12.7 | 14.1 | 17.4 | 18.2 | 19.0 | 16.7 | 20.8 |  |  |  |  |  |
| 1992 | 10.0 | 14.5 | 15.1 | 15.5 | 15.8 | 17.9 | 17.0 | 19.3 |  |  |  |  |  |
| 1993 | 10.9 | 14.5 | 14.5 | 15.2 | 17.4 | 16.3 | 17.9 | 17.8 |  |  |  |  |  |
| 1994 | 11.2 | 15.0 | 15.6 | 15.0 | 15.0 | 15.9 | 16.8 | 17.8 | 19.1 |  |  |  |  |
| 1995 | 12.4 | 15.2 | 18.1 | 15.3 | 14.2 | 16.3 | 16.5 | 17.6 | 19.1 |  |  |  |  |
| 1996 | 13.0 | 14.7 | 15.7 | 16.1 | 15.0 | 14.8 | 15.2 | 16.1 | 18.5 |  |  |  |  |
| 1997 | 14.3 | 15.4 | 14.7 | 16.4 | 13.2 | 12.8 | 15.9 | 16.1 | 15.4 |  |  |  |  |
| 1998 | 12.6 | 16.9 | 16.2 | 14.5 | 15.5 | 14.8 | 12.2 | 14.3 | 16.3 | 18.7 |  |  |  |
| 1999 | 13.2 | 16.3 | 16.4 | 14.8 | 15.0 | 12.4 | 13.2 | 14.8 | 17.3 | 17.2 |  |  |  |
| 2000 | 11.3 | 14.6 | 17.2 | 14.1 | 14.8 | 14.7 | 12.5 | 12.8 | 15.7 | 17.2 |  |  |  |
| 2001 | 10.3 | 13.9 | 15.9 | 15.8 | 15.1 | 12.6 | 11.4 | 11.9 | 13.4 | 15.9 |  |  |  |
| 2002 | 9.1 | 12.8 | 14.4 | 15.9 | 14.1 | 13.9 | 14.0 | - | 13.0 | 13.6 |  |  |  |
| 2003 | 8.4 | 11.7 | 13.8 | 15.4 | 14.0 | 14.8 | 12.7 | - | 12.4 | 14.9 | 16.8 |  |  |
| 2004 | 8.0 | 11.6 | 12.7 | 15.2 | 15.6 | 12.8 | 12.5 | - | 10.9 | 14.2 | 15.4 |  |  |
| 2005 | 6.9 | 10.1 | 12.1 | 13.9 | 13.6 | 13.1 | 14.1 | - | 11.3 | 16.0 | 16.4 |  |  |
| 2006 | 5.9 | 8.8 | 10.9 | 12.8 | 14.0 | 13.6 | 13.5 | - | 10.7 | 12.2 | 14.2 |  |  |
| 2007 | 5.7 | 7.5 | 10.7 | 10.6 | 14.3 | 13.0 | 12.6 | - | 10.5 | 12.1 | 12.3 |  |  |
| 2008 | 5.4 | 7.3 | 9.8 | 11.5 | 10.9 | 12.0 | 12.3 | - | 12.4 | 11.6 | 12.2 | 13.9 |  |
| 2009 | 5.0 | 7.4 | 9.1 | 8.6 | 10.3 | 11.8 | 10.5 | - | 11.1 | 8.5 | 13.0 | 12.2 |  |
| 2010 | 4.7 | 6.7 | 9.3 | 9.6 | 11.3 | 10.1 | 10.7 | - | 10.8 | 9.1 | 13.3 | 14.4 |  |
| 2011 | 4.3 | 4.5 | 7.9 | 8.2 | 9.7 | 7.6 | 9.2 | - | 10.8 | 8.7 | 11.0 | 11.1 |  |
| 2012 | 4.0 | 4.6 | 7.3 | 8.2 | 7.7 | 10.4 | 7.8 | - | 10.8 | 7.7 | 10.6 | 11.2 |  |
| 2013 | 3.4 | 5.4 | 6.5 | 8.1 | 6.4 | 8.5 | 7.1 | - | 8.9 | 10.2 | 8.7 | 10.3 | 11.1 |
| 2014 | 2.6 | 4.3 | 6.4 | 7.1 | 7.5 | 7.5 | 8.0 | - | 8.7 | 7.0 | 9.1 | 10.5 | 10.8 |

[^63]Notes. ' - ' indicates data not available.

[^64]
## Chapter 6

## ATTITUDES AND BELIEFS ABOUT DRUGS AMONG YOUNG ADULTS

One of the most important theoretical contributions of MTF has been to demonstrate the extent to which attitudes and beliefs about drugs can help explain the use of drugs. Earlier volumes in this monograph series, as well as other publications from the study, have demonstrated that shifts in certain attitudes and beliefs-in particular the degree of risk of harm perceived to be associated with use of a particular drug-are important in explaining changes in actual drugusing behavior. Indeed, on a number of occasions we have accurately predicted such changes in use by using perceived risk as a leading indicator of use. ${ }^{1}$ In this chapter, we review trends in these attitudes and beliefs held by young adults since 1980.

## PERCEIVED HARMFULNESS OF DRUGS

Figures 6-1 through 6-33 present three separate trend lines for four-year age strata (that is, respondents who are one to four years beyond high school [ages 19-22], five to eight years beyond high school [ages 23-26], and nine to twelve years beyond high school [ages 27-30]). For comparison purposes, data are also included for the high school senior classes, listed as 18-year-olds. Figures 6-1 to 6-3 present trends in the percentages of young adults aged 18 to 30 who perceive a "great risk" of harm associated with three different levels of marijuana use-trying it once or twice (experimental), smoking it occasionally, and smoking it regularly. Subsequent figures do the same for selected levels of use of various other licit and illicit drugs. Table 6-1 provides the tabular information underlying the figures.

For most of the life of the study, these questions were contained in one questionnaire form only, limiting the numbers of follow-up cases. Accordingly, we have used four-year age bands to increase the available sample size to about 300-600 weighted cases per year for each age band, thereby improving the reliability of the estimates. (The numbers of weighted cases are given at the end of Table 6-1. The actual numbers of respondents are somewhat larger.) Still, these are

[^65]relatively small sample sizes compared to those available for $8^{\text {th }}, 10^{\text {th }}$, and $12^{\text {th }}$ graders, and thus the change estimates are relatively less stable.

Beginning with 2012 we expanded the numbers of forms from which these data are drawn; this increased the sample sizes from that point forward, thus improving the reliability of both the point estimates and the trend estimates. Because the questions are contained in different numbers of forms for the different drugs, the sample sizes vary between drugs, as is noted in footnotes. We use all forms on which each question exists.

Because of the nature of the MTF design, trend data are available for a longer period for 19- to 22 -year-olds (since 1980) than for 23- to 26 -year-olds (since 1984) or 27 - to 30 -year-olds (since 1988). Also displayed in this table are comparison data for $12^{\text {th }}$ graders, shown here as 18 -yearolds, from 1980 onward. (See also Table 8-3 in Volume I for the longer term trends in $12^{\text {th }}$ graders' levels of perceived risk.) Questions about these attitudes and beliefs are not included in the questionnaires for respondents over age 30 due to the length limitations imposed by using a single questionnaire form for respondents age 35 and older.

- Table 6-1 and Figures 6-1 to 6-33 illustrate considerable differences in the degree of risk young adults have associated with various drugs. In general, the results closely have paralleled the distinctions made by $12^{\text {th }}$ graders.
- Marijuana was seen as the least risky of the illicit drugs, although sharp distinctions were made between different levels of marijuana use (Figures 6-1 through 6-3). In 2014, experimental use of marijuana was perceived as being of great risk by only $8-$ to $10 \%$ of all high school graduates ages 19-30, whereas regular use was perceived to carry great risk by a considerably higher percentage (35-to 36\%). Since 2006 there have been very substantial declines in perceived risk for regular marijuana use; in 2006, $55 \%-58 \%$ of all four age groups saw great risk, and by 2014, $35 \%-36 \%$ did so. These substantial declines suggest a possible period effect, that may well have been due to the increasing discussion about liberalizing marijuana laws, including for medical use and more recently for recreational use by adults. While actual law changes were specific to individual states, the discussions were very prominent nationwide, and we believe likely had a direct effect on perceived risk across the nation. Levels of perceived risk in 2014 were the lowest observed since each of the young adult age groups was included in the study - going back to 1980 in the case of 19-22 year olds. And likely not coincidentally, daily marijuana use in 2014 was at a new high among young adults.
- In the mid-1980s and early 1990s, fewer of the older age groups attached great risk to marijuana use than did the younger respondents. Indeed, there was a regular negative ordinal relationship between age and perceived risk for some years after 1980, when the first comparisons were available. Although at first this looked like an age effect, the MTF design allowed us to recognize it as a cohort effect; the younger cohorts initially perceived marijuana as more dangerous than the older cohorts did and persisted in such beliefs as they grew older. Newer cohorts, however, showed lower levels of perceived risk. Twelfth graders from the class of 2014 were much less likely to perceive regular marijuana use as dangerous, compared with $12^{\text {th }}$-grade cohorts in the late 1980 s and early 1990s. This reflects what we have interpreted as generational forgetting, a phenomenon
wherein younger replacement cohorts no longer carried the beliefs-nor had the direct or vicarious experience on which those beliefs were based-that the older cohorts had at that age. (The implications of generational forgetting for prevention are discussed in the last section of this chapter.)

The decline in perceived risk that began in the 1990s was greater in the younger age bands, including grades 8 and 10, and least among the 27- to 30 -year-olds. We believe that much of the eventual decline in perceived risk in the older age bands resulted directly from replacement of earlier cohorts by later, less concerned ones. The credibility of this view is strengthened by the 1993-1995 reversal of the relationship between age and perceived risk of regular use. This reversal is consistent with an underlying cohort effect and could not simply reflect an association between age and a regular change in these attitudes. The decline in perceived risk for regular marijuana use ended in a somewhat staggered fashion-among $12^{\text {th }}$ graders in 1999, among 19- to 22 -year-olds in 2001, among 23- to 26 -year-olds in 2002, and among 27 - to 30 -year-olds in 2004. This was also indicative of a cohort effect playing out in these attitudes. In 2007 all four age strata showed declines of three to four percentage points in perceived risk for regular marijuana use; although no one of these declines was statistically significant taken alone, the consistency across all four groups suggests that the shift was real. Since then the declines have continued, though somewhat erratically; but all four age groups showed substantial declines between 2006 and 2014 in perceived risk for regular marijuana use, suggesting a possible period effect.

- Young adults (ages 19-30) viewed experimental use of any of the other illicit drugs as distinctly more risky than the experimental use of marijuana. About $25-35 \%$ of young adults thought trying sedatives (barbiturates) involved great risk; the corresponding figures were 30-37\% for amphetamines, 40-46\% for LSD, 45-50\% for narcotics other than heroin, 51-57\% for ecstasy (MDMA), 47-51\% for cocaine powder, and 66-72\% for heroin. Note that two classes of prescription drugs have the lowest levels of perceived risk among this set. (Perceived risk of tranquilizers is not asked, but likely would rank low as well.)
- Items about perceived risk of synthetic marijuana use were added to the questionnaires in 2012 (Figures 6-4 and 6-5). These drugs are sold over the counter in small packets containing plant material that has been sprayed with any of a number of chemicals with chemical structures similar to cannabinoids The percent seeing great risk in trying synthetic marijuana in the three young adult age bands were 29-31\% in 2012 and 35-39\% in 2014, reflecting a clear increase in perceived risk in all four age groups.
- The older age groups have been more likely to see $\boldsymbol{L S D}$ as dangerous (Figure 6-6). These age distinctions became sharper through about 2001 as perceived risk declined more in the younger age groups-again indicating some important cohort changes in these attitudes, quite likely as a result of generational forgetting of the dangers of LSD.
- Questions about perceived risk of ecstasy (MDMA) were introduced in the follow-up surveys in 1989, but were not asked of $12^{\text {th }}$ graders until 1997 (due to concerns about introducing the secondary school students to a drug with such an alluring name). At the
beginning of the 1990s, all young adult age groups viewed ecstasy as a fairly dangerous drug, even for experimentation. But, again, the different age bands showed diverging trends during the 1990s, with the oldest two age bands continuing to see ecstasy as quite dangerous, but the 19- to 22-year-olds (and very likely the $12^{\text {th }}$ graders, for whom we did not have data until 1997) coming to see it as less so. In $2000,38 \%$ of $12^{\text {th }}$ graders saw great risk in trying ecstasy versus $49 \%$ of 27 - to 30 -year-olds; in 2001, the corresponding figures were $46 \%$ and $54 \%$. In fact, three of the four age groups showed appreciable increases in perceived risk for ecstasy in 2001, which led us to predict a decline in use. The increase in perceived risk continued in 2002 in the two youngest age strata, and their use of ecstasy did, indeed, begin to decline-and decline sharply (see chapter 5). Perceived risk continued to rise after 2004 for all age groups, and then began to decline after 2006, with perceived risk of experimenting with ecstasy among 18-year-olds declining fairly steadily from $58 \%$ in 2001 to $48 \%$ in 2013, quite possibly as a result of generational forgetting (Figure 6-18). Among the several young adult age bands there was little systematic change in perceived risk for experimental or occasional ecstasy use since about 2005 but among $12^{\text {th }}$ graders there was a sharp decline after 2005 with a leveling after 2011.
- Perceived risk for salvia (Table 6-1) also was included for the first time in 2012 in the young adult questionnaires, and the percent seeing great risk in trying salvia ranged from $19 \%$ to $23 \%$ among the young adults in 2012 and from $18 \%$ to $26 \%$ in 2014 (Table 6-1).
- Recent years showed little systematic change in perceived risk for cocaine use among young adults and not a great deal of difference in this belief among the different age groups. A decline in perceived risk began among 19- to 22-year-olds after 1994, among 23- to 26 -year-olds after 1997, and among 27- to 30 -year-olds after 2001. Young adults generally reported somewhat higher perceived risk with respect to regular cocaine use than did $12^{\text {th }}$ graders; the differences were smaller for occasional and experimental use. Since the early 1990s, perceived risk for regular use of cocaine gradually declined among $12^{\text {th }}$ graders, likely due to generational forgetting of the dangers of this drug, and resulting in an increasing gap between them and the older age groups (Figure 6-11).

Among $12^{\text {th }}$ graders and the young adult age groups, the danger associated with using cocaine on a regular basis grew considerably (by 13 and 17 percentage points, respectively) between 1980 and 1986 (Figure 6-11). Interestingly, these changed beliefs did not translate into changed behavior until the perceived risk associated with experimental and occasional use began to rise sharply after 1986. When these two measures rose, a sharp decline in actual use occurred. We hypothesized that respondents saw only these lower levels of use as relevant to them and, therefore, saw themselves as vulnerable only to the dangers of such use. (No one starts out planning to be a heavy user; further, in the early 1980s, cocaine was not believed to be addictive.) Based on this hypothesis, we included the additional question about occasional use in 1986, just in time to capture a sharp increase in perceived risk later that year. This increase occurred largely in response to the growing media frenzy about cocaine-and crack cocaine, in particular-and to the widely publicized, cocaine-related deaths of several public figures (most notably Len Bias, a collegiate basketball star and a leading National Basketball Association draft pick). After stabilizing for a few years, perceived risk began to fall off
around 1992 among $12^{\text {th }}$ graders, but not among the older age groups-again suggesting that lasting cohort differences were emerging. Now, almost 30 years later, none of the young adult age groups has had much exposure to the cocaine epidemic of the mid1980s, which likely explains why there no longer is much age-related difference in the level of perceived risk, except with regards to regular use, for which $12^{\text {th }}$ graders have a lower level of perceived risk than any of the young adult strata (Figure 6-11).

- Perceived harmfulness of crack use has been lowest among $12^{\text {th }}$ graders for some years now (Figures 6-12 through 6-14). High school seniors have been considerably less likely than any of the older age groups to view occasional and regular use of crack cocaine as dangerous, strongly suggesting that an age-effect may have been operating here. Trend data (available since 1987) on the risks perceived to be associated with crack use showed increases in 1987-1990 for all age groups, followed by relatively little change in the older age strata. During the 1990s, twelfth graders showed decreases in the perceived risk of experimental use of crack-perhaps reflecting the onset of generational forgetting of its dangers-leaving them as perceiving considerably less risk than the older groups. The young adult age groups showed a staggered decline in this measure, with 19- to 22-yearolds showing a decline after 1994, 23- to 26 -year-olds since 1996 , and 27 - to 30 -yearolds after 2001. As a result, the different ages spread out more in their levels of perceived risk of crack use, until declines in the older age groups after about 2002. Given this lack of recent historical or age variation, questions about perceived risk of crack use were dropped from the young adult questionnaires in 2012 to make room for such questions about other drugs.
- Perceived risk for trying amphetamines (Figure 6-23) increased in all four age strata very gradually from 1980, when first measured, through 2010, with little difference among them. In 2011 it dropped in all strata and then held level thereafter. There was more difference among the age groups with regard to the risk attached to regular amphetamine use with the older two strata generally seeing greater risk than the younger two strata, and especially the $12^{\text {th }}$ graders. The younger two strata showed an increase in perceived risk during the 1980s and then some fallback in the early 1990s, before stabilizing. The sharp recent decline observed for experimental use was also seen for regular use from 2009 to 2011 among $12^{\text {th }}$ graders and from 2011 through 2012 among all of the young adult strata.
- Perceived risk questions for Adderall were added to the young adult questionnaires for the first time in 2012. They showed that perceived risk of using once or twice ranged from $29 \%$ to $30 \%$ in the three young adult age bands in 2012. In 2013 and 2014 perceived risk rose some in all four age strata (Table 6-1).
- Measures of perceived risk of crystal methamphetamine (ice) use (Figure 6-25) were introduced in 1990, and the results showed what might be an important reason for its lack of rapid spread. More than half of all $12^{\text {th }}$ graders and young adults perceived it as quite dangerous even to try, perhaps because it was likened to crack in many media accounts. (Both drugs come in crystal form, both are burned and the fumes inhaled, both are stimulants, and both can produce a strong dependence.) There was rather little age-related difference in perceived risk associated with use of crystal methamphetamine in 1990 and

1991, although the two youngest age groups were somewhat higher. But as perceived risk fell considerably among $12^{\text {th }}$ graders (and eventually among 19- to 22 -year-olds) and held steady or rose in the oldest two age groups, an age-related difference emerged. Twelfth graders have fairly consistently had the lowest level of perceived risk since 2003. Since about 2003 or 2004, perceived risk has risen some among all of the age strata, narrowing the age-related differences that had emerged for a few years. In 2011 perceived risk for trying this drug stood at $67 \%$ among $12^{\text {th }}$ graders and at $73-75 \%$ in all of the older strata. Given this lack of variation in recent years and low levels of actual use, these questions were discontinued in the young adult (but not in the secondary school) surveys in 2012 to make room for such questions about other drugs.

- In 2012 perceived risk questions about the use of bath salts-over-the-counter synthetic stimulants-were added to the questionnaires. That year fairly high proportions of the young adults saw great risk of harm in even trying bath salts (45-49\%), but considerably fewer of the 18 -year-olds did (33\%). Perceived risk has increased dramatically for bath salts in all four age strata, with increases ranging from 26 percentage points among $12^{\text {th }}$ graders to 22 to 25 percentage points in the three young adult age strata. In 2014 even trying bath salts once or twice was seen as dangerous by between $67 \%$ and $74 \%$ in the young adult age strata-very high levels. (Some of this shift occurred because fewer respondents chose the "Can't say, drug unfamiliar" option.)
- Young adults have been more cautious than $12^{\text {th }}$ graders about heroin use. (See Figures 6-20 through 6-22.) In general, there has been relatively little change over the years in the proportions of all age groups seeing regular heroin use as dangerous, with the great majority of each group (over 85\%) consistently holding this viewpoint. (There was some increase in the past couple of years among the older groups.) However, there was a longterm gradual rise in all age strata with regard to heroin experimentation. From 1975 to 1986 there had been a downward shift among $12^{\text {th }}$ graders in the proportion seeing great risk associated with trying heroin and some decline among 19- to 22-year-olds. Following this decline (although their data did not extend back as far), young adults showed a gradually increasing caution about heroin use in the latter half of the 1980spossibly due to the association of heroin injection with the spread of HIV-followed by a leveling through most of the 1990s. In 1996 and 1997, young adults' perceived risk increased some, as happened among $12^{\text {th }}$ graders (as well as among $8^{\text {th }}$ and $10^{\text {th }}$ graders). These various trends could reflect, respectively, (a) the lesser attention paid to heroin by the media during the late 1970s and early 1980s as cocaine took center stage; (b) the subsequent great increase in attention paid to intravenous heroin use in the latter half of the 1980s due to the recognition of its important role in the spread of HIV/AIDS; (c) the emergence in the 1990s of heroin so pure that people no longer needed to use a needle to administer it; and (d) the subsequent increased attention given to heroin by the media (partly as a result of some overdose deaths by public figures and partly prompted by the emergence of "heroin chic" in the design industry), as well as through an anti-heroin media campaign launched by the Partnership for a Drug-Free America in June 1996. In 2014, more young adults than $12^{\text {th }}$ graders still saw heroin use as dangerous (Figure 618).
- Perceived risk questions about narcotics other than heroin were first asked of the young adults in 2012; between $43 \%$ and $47 \%$ of the three age groups saw great risk of harm in experimenting with such drugs. None of the one-year changes have been significant since then (Table 6-1).
- In 2014, a minority of young adults saw occasions of heavy drinking on weekends as dangerous (39-44\%), as did a slightly larger proportion of $12^{\text {th }}$ graders (45\%; Figure 631). The belief that heavy drinking carries great risk increased over the 1980s in these age groups, rising among $12^{\text {th }}$ graders from $36 \%$ in 1980 to $49 \%$ in 1992. Among 19- to 22-year-olds, it rose from a low of $30 \%$ in 1981 to $42 \%$ in 1992; the increases among the older groups were smaller. The increase in this belief could well help to explain the important decline in actual heavy drinking, and could in turn be explained by the media campaigns against drunk driving and the increase in the drinking age in a number of states. ${ }^{2}$ Following a staggered pattern, perceived risk of harmfulness reached a peak among 18 -year-olds in 1992, among 19- to 22-year-olds in 1993, among 23 - to 26 -yearolds in 1994, and among 27 - to 30 -year-olds in 1995, suggesting some cohort effect in this important belief. Since 1998, perceived risk of heavy drinking has not changed much among the 19-30 age groups but has risen slightly among the 18 -year-olds.
- Between 1980 and 1991, a gradually increasing proportion of all four age groups viewed drinking one or two drinks per day as dangerous (Figure 6-29); but then they all showed a parallel decrease in perceived risk for this behavior through at least 2000. It seems likely that the earlier increase was due to the general rising concern about the consequences of alcohol use, particularly drunk driving, and that the subsequent decline in perceived risk was due to increasing reports of cardiovascular health benefits of light-to-moderate daily alcohol consumption. Since about 2001 there has been little systematic change in this belief in any of the age strata, and there has been little difference by age across the entire 34 -plus-year interval.
- In 2014, more than four fifths (83-84\%) of young adults perceived regular pack-a-day cigarette smoking as entailing high risk (Figure 6-32). In recent years, 18-year-olds consistently showed lower perceived risk than young adults did, while $10^{\text {th }}$ graders were still lower and $8^{\text {th }}$ graders lowest. Clearly, there is an age effect in young people coming to understand the dangers of smoking. Unfortunately, it appears that much of the learning about the risks of smoking happens after a great deal of smoking initiation has occurred and many young people have already become addicted. These beliefs about smoking risks have strengthened very gradually in all age groups from senior year forward during the years we have monitored them (see Table 6-1 and Figure 6-32). The parallel changes in these beliefs across the different age groups indicate a period effect, suggesting that all of the age groups responded to common influences in the larger culture. These influences

[^66]are discussed at length in Volume $I$ in chapter 8 on attitudes and beliefs. The rise in perceived risk slowed between 2002 and 2011, with only slight increases, mainly in the two youngest age strata. Changes since 2011 have been minimal.

- The regular use of smokeless tobacco is seen as dangerous by 48-53\% of young adults and $41 \%$ of $12^{\text {th }}$ graders. These beliefs gradually strengthened from 1986 through about 2001 in all age groups covered (Table 6-1), particularly among the two older age groups. As with cigarettes, the change appears to reflect a secular trend (period effect) because of its parallel occurrence in all age groups. Perceived risk has not changed among the young adults in any systematic fashion since 2001; these data are based on only one form, so year-to-year fluctuations can appear relatively large. There was a considerable difference across age groups in 2014, with $41 \%$ of 18 -year-olds seeing great risk in regular smokeless tobacco use compared to $48 \%$ to $53 \%$ of the three young adult strata.


## PERSONAL DISAPPROVAL OF DRUG USE

For most of the life of the study, in one of six questionnaire forms follow-up respondents were asked the same questions asked of $12^{\text {th }}$ graders concerning the extent to which they personally disapprove of various drug-using behaviors among "people (who are 18 or older)." Trends in the answers of young adults in the age bands of 19 to 22,23 to 26 , and 27 to 30 are contained in Table 6-2. Comparison data for $12^{\text {th }}$ graders are also provided for 1980 onward. (See Table 8-6 in Volume $I$ for the longer term trends in $12^{\text {th }}$ graders' levels of disapproval associated with using the various drugs.) As with the perceived risk questions, starting in 2012 the estimates were based on all questionnaire forms on which each disapproval question was located in order to increase sample size and, therefore, reduce sampling error. Each question is footnoted in Table 6-2 to indicate on how many forms it was contained in 2012 and thereafter.

- In general, disapproval levels of adult use of the various drugs ranked similarly across substances for both $12^{\text {th }}$ graders and young adults. The great majority of young adults disapproved of using, or even experimenting with, all of the illicit drugs other than marijuana. For example, 95\% or more of young adults in 2014 disapproved of regular use of each of the following drugs: LSD, cocaine, heroin, and sedatives (barbiturates). Fully $78 \%$ to $97 \%$ of young adults disapproved of experimenting with each of these same drugs. Many of these attitudes differed rather little as a function of age in 2014; when there was a difference, the younger age groups were usually the least disapproving.
- Even for marijuana, about four tenths of young adults disapproved of experimentation (35-40\%), a slight majority (50-51\%) disapproved of occasional use, and the great majority (71-75\%) still disapproved of regular use in 2014.

Among drugs measured, marijuana use has shown the widest fluctuations in disapproval over time-generally, fluctuations that parallel the changes in perceived risk (though sometimes with a one-year lag, with the change in perceived risk coming first). The most fluctuation has occurred among the younger age groups (Table 6-2). Among $12^{\text {th }}$ graders, disapproval of regular marijuana use increased substantially in the 1980s, peaked in the
early 1990s, declined some in the 1990s, and then leveled around 1998 with little change for some years thereafter. Since 2009, however, there has been a fair decline in disapproval, falling from $80 \%$ in 2009 to $73 \%$ in 2014. The 19- to 22 -year-olds had a quite similar pattern, though the decline continued a year longer, likely due to generational replacement, with a recent decline from $81 \%$ in 2009 to $71 \%$ in 2014. Among 23- to 26 -year-olds, some declines started later in the 1990s but were modest until about 2007, when disapproval of regular marijuana use fell from $85 \%$ to $71 \%$ in 2014. Thus since 2007 there has been a considerable decline in disapproval of occasional and regular marijuana use in all four age groups; the pattern is consistent with a secular trend, which would alert us to a possible increase in marijuana use. Indeed, such an increase in use was occurring among both $12^{\text {th }}$ graders and 19- to 28 -year-olds during much of this historical period (see Table 2-2).

- In all four age groups from high school seniors to age 30, the great majority has disapproved of even experimenting with $\operatorname{LSD}$ since 1980, when these data were first available. Beginning around 1990, all age groups decreased some in their disapproval of trying LSD (starting from high levels of disapproval at $90-91 \%$ ). The decline was steepest among $12^{\text {th }}$ graders, but there was a reversal in this group's disapproval in 1997, and then an increase through 2006. Disapproval in the older age groups declined less and in staggered fashion; this trend showed some evidence of a reversal among 19- to 22-year-olds and 23- to 26-year-olds since 2001 and 2002, respectively. The pattern again suggested lasting cohort differences in these attitudes. Disapproval levels fluctuated in recent years, but were generally comparable in 2014 to what they were in 2002. Disapproval of regular LSD use has been near the top of the scale for more than three decades, ranging from $92 \%$ to $99 \%$.
- First measured among young adults in 2001, disapproval of ecstasy use was positively associated with age in the early 2000s. In 2001 disapproval of even trying ecstasy was quite high, and from 2001 to 2010, disapproval rose to even higher levels in all age groups, with little systematic change since then. Experimenting with ecstasy was disapproved of by $83 \%$ of $12^{\text {th }}$ graders in 2014 and by roughly similar proportions in the upper ages. .
- Disapproval of all three levels of heroin use (experimental, occasional, and regular use) has remained very high and fairly stable since MTF began, though there was a very gradual increase in disapproval in all age strata from the mid-1980s through around 2005, followed by a leveling. There was one minor exception, however: A little slippage in disapproval of experimental use occurred among $12^{\text {th }}$ graders from 1991 through 1996 (from $96 \%$ to $92 \%$ )—a period during which heroin usage rates were rising.
- Disapproval of regular cocaine use rose gradually among 19- to 22-year-olds, from 89\% in 1981 to $99 \%$ in 1990, with little change thereafter ( $96 \%$ in 2014). See Figures 6-9 through 6-11. All three young adult age bands were near $100 \%$ in disapproving of regular use in 2014. Disapproval of experimental cocaine use increased during the 1980s, peaking first among $12^{\text {th }}$ graders at $94 \%$ in 1991. It then peaked in 1995 among 19- to 22-year-olds (at 94\%) and 23- to 26 -year-olds (at 92\%). Finally, it peaked in 1999 at $90 \%$ among 27- to 30 -year-olds. All age groups have had some modest falloff in disapproval
since those peak levels were attained. Again, the lag in inflection points between the successive age groups suggests some lasting cohort differences in these attitudes. For the last few years, all age groups' disapproval of experimental cocaine use has ranged from 85-92\%.
- Disapproval of experimenting with amphetamines rose in the 1980s as use was falling; thereafter, disapproval leveled at above 80\%, with almost no difference among the age strata. For example, trying amphetamines once or twice was disapproved of by 73-74\% of $19-$ to 26 -year-olds in 1984, compared to $84 \%$ by 1990 . After a long period of level disapproval, all strata showed a slight drop in disapproval in 2011, followed by another leveling, followed by another sharp drop of 10 percentage points in 2014 among 19- to 22-year-olds, which contains most of the college students. Disapproval of regular use started out very high among all age strata in the early 1980s and rose even higher by the early 1990s, where it remained for all age strata until 2011; after that there was a slight decline, but a leveling by 2012. Since 2010 there has been some decline in disapproval of amphetamine use in all four age groups, likely explained by a change in the question wording. Adderall and Ritalin were included in the question for the first time in 2011 as examples of amphetamines. There had been very little difference among the various age strata in either their levels or trends in disapproval until the significant decline in 2014, which brought the college-age group (19- to 22-year-olds) considerably below the other age groups in their disapproval of experimenting with amphetamines.
- Disapproval of experimental use of sedatives (barbiturates) has moved very much in parallel with that for amphetamines. Disapproval increased significantly during the 1980s, accompanied by declining use. Disapproval of trying sedatives was at $84-85 \%$ in 1984 compared to $89-91 \%$ by 1990. Disapproval of sedative use slipped some among $12^{\text {th }}$ graders after 1992 and among 19- to 22-year-olds after 1994, with the 23- to 26 -yearolds following suit after 1996, and the 27- to 30 -year-old stratum in 2004. This pattern of staggered change again suggests cohort effects, reflecting lasting cohort differences in these attitudes. In recent years a gradual, staggered increase in disapproval of trying sedatives has shown up in all age groups.
- The story for alcohol is quite an interesting one, in that changes in the minimum drinking age seem to have led to modest changes in norms for the affected cohorts. Between 1980 and 1992, an increasing proportion of $12^{\text {th }}$ graders favored total abstention; the percent who disapproved of drinking even just once or twice rose from $16 \%$ in 1980 to $33 \%$ in 1992. This figure fell back slightly and stood at $29 \%$ in 2014. Among 19- to 22-year-olds there was a modest increase in disapproving of any use between 1985 and 1989 (from $15 \%$ to $22 \%$ ), where it held for some years; it remained at $18 \%$ in 2014 . For the two oldest age groups, there has been rather little change in these attitudes so far. These differing trends may reflect the fact that during the 1980s, the drinking age was raised in a number of states so that by 1987 it was 21 in all states; this change would have had the greatest effect on $12^{\text {th }}$ graders, who may have incorporated the legal restrictions into their normative structure and, as they entered young adulthood, brought these new norms with them. But the changes may be exhibited only among respondents in the cohorts that were underage after the time that the new law raising the minimum drinking age went into effect.

Disapproval of light daily drinking (one or two drinks) has not shown any such cohort effects, because all age groups have generally moved in parallel, at similar levels of disapproval. The three youngest age bands (which include $12^{\text {th }}$ graders through 26 -yearolds) showed an increase in disapproval of daily drinking up until about 1990 (there was little data yet available on the oldest age group), but disapproval has declined a fair amount in all of the age groups since then. A bit of a gap between $12^{\text {th }}$ graders and young adults opened up between 2004 and 2008, when $12^{\text {th }}$ graders increased their disapproval of daily drinking while young adults did not. The pattern of cross-time change in disapproval of heavy daily drinking (having four or five drinks nearly every day) closely parallels what was observed for the perceived risk associated with light daily drinking, discussed previously, though the level of disapproval was much higher as would be expected; the later decline in both variables among the young adults may well be due to widely publicized reports that some cardiovascular benefits may result from having one or two drinks per day.

- There was a considerable increase in disapproval of occasions of heavy drinking (also called binge drinking) on weekends from the early 1980s for the two youngest age groups, and this continued through 1992 for $12^{\text {th }}$ graders (who then showed some dropoff) and through 1996 among 19- to 22-year-olds (who then also showed some drop-off). As Figure 5-20d illustrates, the prevalence of occasions of heavy drinking declined substantially among $12^{\text {th }}$ graders and 19 - to 22 -year-olds between 1981 and the early 1990s, as norms became more restrictive. There was little or no change in the older age strata, either in their levels of disapproval or in their rates of occasions of heavy drinking, until the early 2000s, when disapproval began to drop some in both strata, before a long, gradual increase set in among the 18 -year-olds.
- Some fluctuations in the disapproval of cigarette smoking occurred over the decades covered by MTF. Twelfth graders showed some increase in disapproval of pack-or-more-a-day smoking between 1982 (69\%) and 1992 (74\%). Their disapproval then fell through 1997 (to 67\%) as their smoking increased; disapproval then increased for several years (to $82 \%$ in 2006) before leveling, as smoking declined. In 2014, $85 \%$ disapproved of pack-or-more-a-day smoking. The 19- to 22 -year-olds showed a similar increase in disapproval from $66 \%$ in 1982 to $81 \%$ in 2014. All four age strata showed some upward drift in their level of disapproval of smoking since about 1999 ( $80-85 \%$ in 2014), suggesting a secular change in attitudes during this period.


## COHORT DIFFERENCES AND THEIR IMPLICATIONS FOR PREVENTION AND THEORY

An important theoretical point to be made-based on the strong evidence reported here for cohort effects in perceived risk and disapproval of many of the drugs under study-is that among the causes of cohort differences in actual use are lasting cohort differences in these critical attitudes and beliefs. In other words, the attitudes and beliefs brought into adulthood from adolescence tend to persevere.

A second point has to do with the causes of these attitudinal cohort effects. We noted earlier that the older respondents are more likely than the younger ones to see as dangerous the use of marijuana, LSD, heroin, amphetamines, ecstasy, crystal methamphetamine, cocaine, crack, and sedatives (barbiturates). We have offered the framework for a theory of drug epidemics in which direct learning (from personal use) and vicarious learning (from observing use by others in both the immediate and mass media environments) play important roles in changing these key attitudes. ${ }^{3}$ To the extent that the data on perceived risk represent cohort effects (enduring differences between class cohorts), these findings would be consistent with this theoretical perspective. Clearly, use of these particular drugs was greater when the older cohorts were growing up, and public attention and concern regarding the consequences of these drugs were greatest in the 1970s and early to mid-1980s. In the early 1970s, LSD was alleged to cause brain and chromosomal damage, as well as bad trips, flashbacks, and behavior that could prove dangerous. Methamphetamine use was discouraged with the slogan "speed kills." In addition, there was an epidemic of heroin use in the early 1970s. Later cohorts (through the mid-1990s, at least) were not exposed to those experiences. While there may have been a secular trend toward greater perceived risk for drugs in general, in the case of LSD there may have also been an operating cohort effect (with younger cohorts seeing less danger) offsetting the secular trend among $12^{\text {th }}$ graders; the net effect was a decrease in $12^{\text {th }}$ graders' perceived risk of LSD use after 1980.

This vicarious learning process has a very practical application for national strategy for preventing future epidemics. Because fewer in their immediate social circles and fewer public role models may be using these drugs and exhibiting the adverse consequences of use during certain historical periods, future cohorts of youth may have less opportunity to learn about the adverse consequences of these drugs in the normal course of growing up. Unless those hazards are convincingly communicated to them in other ways-for example, through school prevention programs, by their parents, and through the mass media, including public service advertisingthey will become more susceptible to a new epidemic of use of the same or similar drugs.

In Volume I, we reported an increase in use of several drugs in $8^{\text {th }}, 10^{\text {th }}$, and $12^{\text {th }}$ grades in 1994 through 1997. This increase suggests that this form of generational forgetting may well have been taking place during those years. For the cohorts that follow such a rise in use, there is once again an increased opportunity for vicarious learning from the adverse experiences of those around them, but by that time, members of affected cohorts have had to learn the hard way what consequences await those who become involved with the various drugs. In the 2000s we have seen drug use subside to some degree, which once again has created the conditions for generational forgetting of the dangers of many of these drugs. We are now seeing some softening of attitudes among teens regarding marijuana and ecstasy, and the recent lower levels of perceived risk of LSD use—particularly among $8^{\text {th }}$ graders—suggest a real possibility of future increases in use.

[^67]TABLE 6-1
Trends in Harmfulness as Perceived by
Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

| Q. How much do you think people risk harming themselves (physically or in other ways), if they . . . | Age Group | $\underline{1980}$ | $\underline{1981}$ | $\underline{1982}$ | $\underline{1983}$ | $\underline{1984}$ | $\underline{1985}$ | $\underline{1986}$ | 1987 | 1988 |  |  | 1991 |  |  |  |  |  | (Years <br> Cont.) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  | $\underline{1989}$ | $\underline{1990}$ |  | $\underline{1992}$ | $\underline{1993}$ | 1994 | $\underline{1995}$ | $\underline{1996}$ |  |
| Try marijuana once or twice ${ }^{f}$ | 18 | 10.0 | 13.0 | 11.5 | 12.7 | 14.7 | 14.8 | 15.1 | 18.4 | 19.0 | 23.6 | 23.1 | 27.1 | 24.5 | 21.9 | 19.5 | 16.3 | 15.6 |  |
|  | 19-22 | 8.3 | 7.8 | 9.7 | 9.7 | 12.8 | 11.2 | 13.0 | 12.9 | 16.8 | 16.9 | 17.8 | 19.1 | 19.7 | 19.4 | 18.8 | 13.3 | 16.9 |  |
|  | 23-26 | - | - | - | - | 9.6 | 10.0 | 12.4 | 14.5 | 16.0 | 14.0 | 17.7 | 14.0 | 15.0 | 13.0 | 15.0 | 15.8 | 18.5 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 14.6 | 16.0 | 17.0 | 15.7 | 15.1 | 14.0 | 14.8 | 16.1 | 16.2 |  |
| Smoke marijuana occasionally ${ }^{\text {f }}$ | 18 | 14.7 | 19.1 | 18.3 | 20.6 | 22.6 | 24.5 | 25.0 | 30.4 | 31.7 | 36.5 | 36.9 | 40.6 | 39.6 | 35.6 | 30.1 | 25.6 | 25.9 |  |
|  | 19-22 | 13.9 | 14.2 | 16.9 | 16.7 | 21.7 | 20.6 | 22.4 | 23.0 | 28.7 | 29.1 | 30.1 | 30.2 | 29.5 | 30.3 | 31.3 | 25.5 | 25.6 |  |
|  | 23-26 | - | - | - | - | 15.8 | 16.3 | 20.9 | 20.8 | 26.8 | 25.3 | 30.4 | 26.2 | 27.4 | 24.0 | 25.5 | 27.7 | 27.3 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 24.2 | 25.7 | 28.7 | 27.4 | 27.5 | 26.8 | 28.1 | 28.3 | 28.1 |  |
| Smoke marijuana regularly ${ }^{f}$ | 18 | 50.4 | 57.6 | 60.4 | 62.8 | 66.9 | 70.4 | 71.3 | 73.5 | 77.0 | 77.5 | 77.8 | 78.6 | 76.5 | 72.5 | 65.0 | 60.8 | 59.9 |  |
|  | 19-22 | 43.9 | 47.8 | 52.4 | 58.4 | 62.2 | 66.8 | 67.6 | 69.4 | 72.4 | 74.9 | 73.0 | 75.0 | 69.3 | 69.2 | 65.0 | 62.1 | 61.3 |  |
|  | 23-26 | - | - | - | - | 52.9 | 57.5 | 59.4 | 65.3 | 68.3 | 72.1 | 71.0 | 70.9 | 67.3 | 64.1 | 63.2 | 64.2 | 62.7 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 67.5 | 69.1 | 69.2 | 67.5 | 68.8 | 69.4 | 65.6 | 69.2 | 67.3 |  |
| Try synthetic marijuana once or twice ${ }^{9}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Take synthetic marijuana occasionally ${ }^{g}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Try LSD once or twice ${ }^{\mathrm{h}}$ | 18 | 43.9 | 45.5 | 44.9 | 44.7 | 45.4 | 43.5 | 42.0 | 44.9 | 45.7 | 46.0 | 44.7 | 46.6 | 42.3 | 39.5 | 38.8 | 36.4 | 36.2 |  |
|  | 19-22 | 44.8 | 44.4 | 45.0 | 44.7 | 46.0 | 44.3 | 47.6 | 49.4 | 49.2 | 49.5 | 49.3 | 48.0 | 45.6 | 42.4 | 42.3 | 40.3 | 44.4 |  |
|  | 23-26 | - | - | - | - | 48.3 | 46.9 | 47.9 | 51.5 | 53.7 | 50.7 | 52.0 | 50.1 | 49.7 | 49.0 | 46.8 | 45.8 | 46.1 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 53.3 | 55.6 | 54.6 | 52.5 | 53.0 | 51.5 | 53.5 | 52.5 | 50.1 |  |
| Take LSD regularly ${ }^{\text {h }}$ | 18 | 83.0 | 83.5 | 83.5 | 83.2 | 83.8 | 82.9 | 82.6 | 83.8 | 84.2 | 84.3 | 84.5 | 84.3 | 81.8 | 79.4 | 79.1 | 78.1 | 77.8 |  |
|  | 19-22 | 83.4 | 85.3 | 86.2 | 86.0 | 84.5 | 86.4 | 87.1 | 85.6 | 85.4 | 85.5 | 85.8 | 86.6 | 87.0 | 81.3 | 81.0 | 80.5 | 82.4 |  |
|  | 23-26 | - | - | - | - | 89.0 | 86.6 | 88.7 | 90.0 | 89.2 | 89.0 | 88.2 | 89.1 | 87.3 | 85.3 | 87.5 | 86.3 | 84.7 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 89.1 | 91.2 | 92.0 | 87.1 | 88.5 | 89.0 | 89.2 | 88.4 | 87.0 |  |
| Try PCP once or twice ${ }^{h}$ | 18 | - | - | - | - | - | - | - | 55.6 | 58.8 | 56.6 | 55.2 | 51.7 | 54.8 | 50.8 | 51.5 | 49.1 | 51.0 |  |
|  | 19-22 | - | - | - | - | - | - | - | 63.6 | 63.8 | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | 64.8 | 63.2 | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 65.9 | - | - | - | - | - | - | - | - |  |
| Try ecstasy (MDMA) once or twice ${ }^{h}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | 45.2 | 47.1 | 48.8 | 46.4 | 45.0 | 51.1 | 48.3 | 46.7 |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | 49.5 | 47.2 | 47.4 | 45.5 | 41.9 | 50.6 | 49.3 | 50.4 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | 44.9 | 48.7 | 47.7 | 44.2 | 51.7 | 47.3 | 50.0 | 50.6 |  |
| Take ecstasy (MDMA) occasionally ${ }^{\text {h }}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Try salvia once or twice ${ }^{\mathrm{d}, \mathrm{k}}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Take salvia occasionally ${ }^{k}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Try cocaine once or twice ${ }^{h}$ | 18 | 31.3 | 32.1 | 32.8 | 33.0 | 35.7 | 34.0 | 33.5 | 47.9 | 51.2 | 54.9 | 59.4 | 59.4 | 56.8 | 57.6 | 57.2 | 53.7 | 54.2 |  |
|  | 19-22 | 31.4 | 30.4 | 33.3 | 28.7 | 33.1 | 33.2 | 35.5 | 45.9 | 51.9 | 51.5 | 58.1 | 58.7 | 56.1 | 60.5 | 63.8 | 57.7 | 61.9 |  |
|  | 23-26 | - | - | - | - | 31.3 | 31.1 | 35.9 | 48.0 | 47.1 | 51.3 | 51.5 | 50.5 | 53.5 | 54.1 | 56.0 | 58.7 | 57.2 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 45.3 | 53.0 | 51.6 | 52.6 | 51.8 | 54.7 | 53.5 | 56.4 | 53.6 |  |
| Take cocaine occasionally ${ }^{\text {n }}$ | 18 | - | - | - | - | - | - | 54.2 | 66.8 | 69.2 | 71.8 | 73.9 | 75.5 | 75.1 | 73.3 | 73.7 | 70.8 | 72.1 |  |
|  | 19-22 | - | - | - | - | - | - | 53.8 | 61.3 | 67.1 | 72.6 | 74.6 | 72.6 | 74.9 | 75.4 | 78.0 | 73.4 | 76.6 |  |
|  | 23-26 | - | - | - | - | - | - | 50.9 | 62.6 | 63.2 | 69.9 | 69.9 | 70.3 | 69.9 | 72.8 | 70.3 | 76.0 | 71.3 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 62.6 | 66.6 | 66.6 | 69.1 | 69.9 | 69.1 | 69.9 | 70.0 | 67.8 |  |
| Take cocaine regularly ${ }^{\text {h }}$ | 18 | 69.2 | 71.2 | 73.0 | 74.3 | 78.8 | 79.0 | 82.2 | 88.5 | 89.2 | 90.2 | 91.1 | 90.4 | 90.2 | 90.1 | 89.3 | 87.9 | 88.3 |  |
|  | 19-22 | 65.2 | 69.3 | 71.5 | 75.2 | 75.1 | 82.9 | 82.0 | 88.0 | 90.3 | 89.1 | 93.9 | 93.5 | 92.9 | 91.7 | 92.2 | 91.5 | 92.2 |  |
|  | 23-26 | - | - | - | - | 75.6 | 76.9 | 83.0 | 88.9 | 90.9 | 91.2 | 91.2 | 92.7 | 89.9 | 91.9 | 92.6 | 93.3 | 90.6 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 88.9 | 92.0 | 91.4 | 90.9 | 92.0 | 91.6 | 92.1 | 91.3 | 91.6 |  |

Percentage saying "great risk" a

| Q. How much do you think people risk harming themselves (physically or in other ways), if they . . . | Age Group | $\underline{1997}$ | $\underline{1998}$ | $\underline{1999}$ | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | 2006 | $\underline{2007}$ | 2008 | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Try marijuana once or twice ${ }^{f}$ | 18 | 14.9 | 16.7 | 15.7 | 13.7 | 15.3 | 16.1 | 16.1 | 15.9 | 16.1 | 17.8 | 18.6 | 17.4 | 18.5 | 17.1 | 15.6 | 14.8 | 14.5 | 12.5 | -2.0 |
|  | 19-22 | 14.8 | 13.4 | 12.5 | 14.3 | 11.9 | 13.3 | 17.1 | 15.3 | 15.6 | 14.4 | 10.8 | 17.4 | 13.2 | 16.8 | 13.4 | 12.9 | 11.8 | 9.3 | -2.5 s |
|  | 23-26 | 15.1 | 16.7 | 16.4 | 13.1 | 13.0 | 15.1 | 15.3 | 13.6 | 13.0 | 13.9 | 13.0 | 12.5 | 10.6 | 12.7 | 10.5 | 10.1 | 9.7 | 9.6 | -0.1 |
|  | 27-30 | 16.1 | 16.4 | 16.1 | 14.4 | 17.3 | 16.2 | 18.0 | 13.8 | 14.5 | 14.5 | 16.6 | 11.4 | 12.3 | 11.5 | 12.4 | 12.5 | 10.2 | 8.8 | -1.4 |
| Smoke marijuana occasionally ${ }^{\text {f }}$ | 18 | 24.7 | 24.4 | 23.9 | 23.4 | 23.5 | 23.2 | 26.6 | 25.4 | 25.8 | 25.9 | 27.1 | 25.8 | 27.4 | 24.5 | 22.7 | 20.6 | 19.5 | 16.4 | -3.1 s |
|  | 19-22 | 22.0 | 22.0 | 19.8 | 25.8 | 18.0 | 21.0 | 24.1 | 23.2 | 24.3 | 22.1 | 22.3 | 23.6 | 23.1 | 19.9 | 19.6 | 20.6 | 19.1 | 15.4 | -3.7 ss |
|  | 23-26 | 26.4 | 26.8 | 26.4 | 24.9 | 20.5 | 24.5 | 22.2 | 22.7 | 21.6 | 22.3 | 20.2 | 18.5 | 18.1 | 19.3 | 15.5 | 17.1 | 14.4 | 14.8 | +0.3 |
|  | 27-30 | 26.0 | 25.8 | 25.3 | 25.8 | 25.0 | 30.2 | 27.9 | 25.1 | 24.8 | 21.8 | 25.6 | 21.6 | 21.7 | 18.6 | 19.3 | 19.7 | 16.0 | 14.8 | -1.2 |
| Smoke marijuana regularly ${ }^{f}$ | 18 | 58.1 | 58.5 | 57.4 | 58.3 | 57.4 | 53.0 | 54.9 | 54.6 | 58.0 | 57.9 | 54.8 | 51.7 | 52.4 | 46.8 | 45.7 | 44.1 | 39.5 | 36.1 | -3.4 |
|  | 19-22 | 60.7 | 53.4 | 55.2 | 58.0 | 49.6 | 56.7 | 57.8 | 57.2 | 55.3 | 54.5 | 50.4 | 51.6 | 46.4 | 49.8 | 43.0 | 43.5 | 39.4 | 35.1 | -4.3 s |
|  | 23-26 | 64.1 | 62.7 | 60.1 | 60.3 | 55.1 | 53.7 | 56.7 | 54.2 | 53.6 | 55.9 | 52.5 | 52.4 | 43.0 | 47.1 | 39.3 | 40.1 | 35.9 | 34.5 | -1.5 |
|  | 27-30 | 65.0 | 63.6 | 66.1 | 64.0 | 61.7 | 63.5 | 64.7 | 59.3 | 57.0 | 54.9 | 51.5 | 51.2 | 47.4 | 48.5 | 42.2 | 43.5 | 40.3 | 35.3 | -5.0 ss |
| Try synthetic marijuana once or twice ${ }^{9}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 23.5 | 25.9 | 32.5 | +6.6 sss |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 30.6 | 33.1 | 36.1 | +3.0 |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 29.1 | 29.4 | 38.5 | +9.1 sss |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 28.9 | 32.7 | 35.1 | +2.3 |
| Take synthetic marijuana occasionally ${ }^{g}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 32.7 | 36.2 | 39.4 | +3.3 |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 38.5 | 40.1 | 44.5 | +4.3 |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 37.3 | 38.6 | 47.2 | +8.7 ss |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 36.3 | 41.0 | 43.1 | +2.1 |
| Try LSD once or twice ${ }^{\text {h }}$ | 18 | 34.7 | 37.4 | 34.9 | 34.3 | 33.2 | 36.7 | 36.2 | 36.2 | 36.5 | 36.1 | 37.0 | 33.9 | 37.1 | 35.6 | 34.7 | 33.1 | 34.9 | 35.5 | +0.6 |
|  | 19-22 | 40.1 | 38.7 | 38.1 | 37.9 | 37.5 | 35.3 | 39.7 | 39.2 | 38.7 | 43.5 | 40.9 | 46.5 | 38.5 | 40.9 | 43.5 | 43.5 | 40.3 | 40.1 | -0.3 |
|  | 23-26 | 46.6 | 45.7 | 49.3 | 44.9 | 48.5 | 45.7 | 43.8 | 40.7 | 39.9 | 38.1 | 42.8 | 43.8 | 43.0 | 48.7 | 44.1 | 47.2 | 43.0 | 42.4 | -0.6 |
|  | 27-30 | 52.0 | 52.0 | 49.9 | 46.4 | 46.7 | 44.9 | 47.5 | 47.2 | 47.9 | 44.9 | 44.6 | 42.4 | 41.7 | 41.5 | 45.2 | 45.8 | 45.2 | 45.6 | +0.4 |
| Take LSD regularly ${ }^{\text {h }}$ | 18 | 76.6 | 76.5 | 76.1 | 75.9 | 74.1 | 73.9 | 72.3 | 70.2 | 69.9 | 69.3 | 67.3 | 63.6 | 67.8 | 65.3 | 65.5 | 66.8 | 66.8 | 62.7 | -4.1 s |
|  | 19-22 | 83.6 | 78.6 | 82.2 | 81.6 | 79.2 | 81.1 | 78.6 | 78.4 | 77.8 | 78.9 | 77.5 | 73.9 | 74.8 | 72.8 | 74.4 | 78.0 | 76.6 | 74.7 | -1.8 |
|  | 23-26 | 85.6 | 82.1 | 85.4 | 84.1 | 86.0 | 85.3 | 84.3 | 83.5 | 80.8 | 82.0 | 80.3 | 80.2 | 82.0 | 83.1 | 81.4 | 78.9 | 79.0 | 76.0 | -2.9 |
|  | 27-30 | 87.2 | 90.5 | 87.8 | 85.3 | 86.9 | 85.3 | 87.5 | 83.9 | 87.9 | 82.2 | 85.7 | 82.9 | 80.2 | 87.0 | 83.0 | 83.2 | 83.8 | 80.3 | -3.4 |
| Try PCP once or twice ${ }^{h}$ | 18 | 48.8 | 46.8 | 44.8 | 45.0 | 46.2 | 48.3 | 45.2 | 47.1 | 46.6 | 47.0 | 48.0 | 47.4 | 49.7 | 52.4 | 53.9 | 51.6 | 53.9 | 53.8 | -0.1 |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Try ecstasy (MDMA) once or twice ${ }^{\text {h }}$ | 18 | 33.8 | 34.5 | 35.0 | 37.9 | 45.7 | 52.2 | 56.3 | 57.7 | 60.1 | 59.3 | 58.1 | 57.0 | 53.3 | 50.6 | 49.0 | 49.4 | 47.5 | 47.8 | +0.4 |
|  | 19-22 | 45.5 | 42.7 | 37.6 | 37.9 | 40.5 | 46.8 | 50.1 | 52.3 | 53.8 | 51.0 | 50.3 | 51.4 | 51.4 | 50.7 | 49.9 | 45.9 | 52.4 | 50.7 | -1.7 |
|  | 23-26 | 50.5 | 47.7 | 50.0 | 46.7 | 45.7 | 45.6 | 45.9 | 44.9 | 51.2 | 46.4 | 51.4 | 46.3 | 46.4 | 47.5 | 54.2 | 43.7 | 49.1 | 56.5 | +7.4 |
|  | 27-30 | 48.8 | 50.4 | 50.9 | 48.9 | 53.6 | 52.0 | 58.8 | 49.1 | 50.2 | 46.5 | 51.9 | 43.5 | 43.5 | 52.0 | 51.3 | 44.3 | 51.4 | 52.0 | +0.6 |
| Take ecstasy (MDMA) occasionally ${ }^{h}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 19-22 | - | - | - | - | 72.5 | 77.8 | 81.7 | 78.3 | 80.0 | 82.5 | 79.3 | 81.9 | 79.2 | 76.2 | 71.6 | 76.7 | 75.3 | 72.9 | -2.4 |
|  | 23-26 | - | - | - | - | 72.5 | 71.9 | 73.6 | 77.4 | 77.2 | 77.0 | 78.7 | 78.6 | 76.2 | 79.1 | 76.9 | 76.6 | 69.8 | 77.6 | +7.8 s |
|  | 27-30 | - | - | - | - | 75.2 | 76.5 | 79.9 | 76.9 | 74.7 | 70.4 | 72.0 | 71.3 | 71.4 | 69.7 | 77.8 | 75.0 | 76.8 | 71.6 | -5.2 |
| Try salvia once or twice ${ }^{\mathrm{d}, \mathrm{k}}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | 39.8 | 38.7 | 13.8 | 12.9 | 14.1 | +1.2 |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 22.5 | 21.4 | 25.9 | +4.5 |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 18.6 | 19.6 | 24.5 | +4.8 |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 18.8 | 20.6 | 18.4 | -2.2 |
| Take salvia occasionally ${ }^{k}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 23.1 | 21.3 | 20.0 | -1.3 |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 29.2 | 30.6 | 32.6 | +2.0 |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 26.6 | 25.5 | 31.1 | +5.6 |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 24.7 | 25.7 | 25.4 | -0.4 |
| Try cocaine once or twice ${ }^{h}$ | 18 | 53.6 | 54.6 | 52.1 | 51.1 | 50.7 | 51.2 | 51.0 | 50.7 | 50.5 | 52.5 | 51.3 | 50.3 | 53.1 | 52.8 | 54.0 | 51.6 | 54.4 | 53.7 | -0.7 |
|  | 19-22 | 55.5 | 55.4 | 52.8 | 56.7 | 48.9 | 55.5 | 55.0 | 55.5 | 55.6 | 54.0 | 55.8 | 56.7 | 54.9 | 56.8 | 56.2 | 57.0 | 56.3 | 56.3 | 0.0 |
|  | 23-26 | 63.1 | 60.2 | 62.6 | 63.1 | 62.4 | 61.0 | 55.4 | 52.1 | 53.0 | 52.5 | 56.9 | 55.0 | 56.6 | 56.7 | 54.9 | 60.3 | 50.9 | 57.3 | +6.4 |
|  | 27-30 | 54.6 | 60.5 | 61.7 | 59.9 | 60.9 | 58.8 | 56.4 | 61.4 | 56.5 | 58.1 | 54.8 | 56.1 | 52.0 | 51.6 | 54.7 | 51.8 | 53.8 | 50.1 | -3.7 |
| Take cocaine occasionally ${ }^{\text {n }}$ | 18 | 72.4 | 70.1 | 70.1 | 69.5 | 69.9 | 68.3 | 69.1 | 67.2 | 66.7 | 69.8 | 68.8 | 67.1 | 71.4 | 67.8 | 69.7 | 69.0 | 70.2 | 68.1 | -2.1 |
|  | 19-22 | 76.1 | 71.2 | 68.0 | 72.4 | 70.0 | 69.9 | 70.3 | 70.2 | 72.1 | 71.0 | 71.5 | 72.4 | 67.2 | 72.9 | 70.3 | 78.0 | 76.5 | 74.9 | -1.6 |
|  | 23-26 | 76.5 | 74.2 | 77.8 | 76.2 | 74.2 | 75.4 | 68.3 | 74.1 | 70.4 | 68.5 | 70.9 | 67.2 | 74.9 | 71.6 | 71.6 | 76.9 | 75.8 | 75.8 | -0.1 |
|  | 27-30 | 73.8 | 73.2 | 75.4 | 76.5 | 78.1 | 74.3 | 72.6 | 75.3 | 76.2 | 74.6 | 72.1 | 73.9 | 65.4 | 71.5 | 71.0 | 73.2 | 77.9 | 70.7 | -7.2 s |
| Take cocaine regularly ${ }^{\text {h }}$ | 18 | 87.1 | 86.3 | 85.8 | 86.2 | 84.1 | 84.5 | 83.0 | 82.2 | 82.8 | 84.6 | 83.3 | 80.7 | 84.4 | 81.7 | 83.8 | 82.6 | 83.3 | 80.6 | -2.6 |
|  | 19-22 | 91.6 | 88.7 | 88.5 | 90.7 | 85.1 | 88.3 | 87.4 | 87.1 | 89.2 | 86.2 | 86.7 | 87.0 | 88.6 | 87.9 | 86.3 | 92.3 | 91.4 | 89.7 | -1.7 |
|  | 23-26 | 93.2 | 92.9 | 92.7 | 92.9 | 91.1 | 91.5 | 88.5 | 91.5 | 88.0 | 90.9 | 88.0 | 86.5 | 89.2 | 90.9 | 88.0 | 91.2 | 91.2 | 92.4 | +1.3 |
|  | 27-30 | 92.7 | 93.0 | 92.4 | 92.3 | 94.5 | 91.2 | 92.9 | 91.3 | 94.0 | 90.0 | 89.9 | 91.1 | 88.8 | 92.7 | 87.2 | 91.2 | 91.7 | 88.7 | -3.0 |
| (List of drugs continued.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 6-1 (cont.)
Trends in Harmfulness as Perceived by
Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

|  | $\begin{gathered} \text { Age } \\ \text { Group } \end{gathered}$ | Percentage saying "great risk" ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Q. How much do you think people risk harming themselves (physically or in other ways), if they . . . |  | 1980 | 1981 | 1982 | 1983 | 1984 | $\underline{1985}$ | $\underline{1986}$ | 1987 | 1988 | $\underline{1989}$ | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | $\underline{1996}$ | (Years Cont.) |
| Try crack once or twice ${ }^{\text {h }}$ | 18 | - | - | - | - | - | - | - | 57.0 | 62.1 | 62.9 | 64.3 | 60.6 | 62.4 | 57.6 | 58.4 | 54.6 | 56.0 |  |
|  | 19-22 | - | - | - | - | - | - | - | 59.4 | 67.3 | 68.5 | 69.4 | 66.9 | 65.4 | 63.5 | 70.1 | 61.9 | 65.2 |  |
|  | 23-26 | - | - | - | - | - | - | - | 59.1 | 63.5 | 69.8 | 67.3 | 66.9 | 67.1 | 64.2 | 69.3 | 64.8 | 68.6 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 66.5 | 64.9 | 68.7 | 66.8 | 64.3 | 68.8 | 65.6 | 66.4 | 66.7 |  |
| Take crack occasionally ${ }^{\text {h }}$ | 18 | - | - | - | - | - | - | - | 70.4 | 73.2 | 75.3 | 80.4 | 76.5 | 76.3 | 73.9 | 73.8 | 72.8 | 71.4 |  |
|  | 19-22 | - | - | - | - | - | - | - | 75.0 | 77.3 | 81.8 | 82.3 | 82.7 | 81.9 | 83.6 | 84.3 | 78.8 | 83.5 |  |
|  | 23-26 | - | - | - | - | - | - | - | 70.3 | 74.0 | 79.9 | 81.1 | 83.9 | 84.4 | 81.6 | 83.2 | 81.4 | 85.9 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 76.4 | 76.7 | 82.6 | 81.8 | 79.1 | 83.6 | 78.6 | 81.1 | 81.3 |  |
| Take crack regularly ${ }^{\text {h }}$ | 18 | - | - | - | - | - | - | - | 84.6 | 84.8 | 85.6 | 91.6 | 90.1 | 89.3 | 87.5 | 89.6 | 88.6 | 88.0 |  |
|  | 19-22 | - | - | - | - | - | - | - | 89.6 | 91.1 | 94.1 | 94.9 | 95.6 | 93.4 | 96.2 | 96.0 | 94.2 | 94.7 |  |
|  | 23-26 | - | - | - | - | - | - | - | 88.0 | 89.2 | 91.5 | 94.2 | 95.4 | 94.1 | 93.4 | 94.9 | 95.5 | 96.1 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 89.6 | 89.5 | 95.3 | 94.4 | 93.3 | 93.5 | 93.0 | 94.0 | 94.3 |  |
| Try cocaine powder once or twice ${ }^{\text {i }}$ | 18 | - | - | - | - | - | - | - | 45.3 | 51.7 | 53.8 | 53.9 | 53.6 | 57.1 | 53.2 | 55.4 | 52.0 | 53.2 |  |
|  | 19-22 | - | - | - | - | - | - | - | 44.0 | 48.6 | 51.1 | 54.5 | 52.7 | 56.2 | 49.7 | 62.0 | 55.8 | 57.1 |  |
|  | 23-26 | - | - | - | - | - | - | - | 41.0 | 43.6 | 48.4 | 48.9 | 47.4 | 45.9 | 45.6 | 52.5 | 48.9 | 57.2 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 42.0 | 45.1 | 46.2 | 43.3 | 42.3 | 49.9 | 47.1 | 48.2 | 48.9 |  |
| Take cocaine powder occasionally ${ }^{\text {i }}$ | 18 | - | - | - | - | - | - | - | 56.8 | 61.9 | 65.8 | 71.1 | 69.8 | 70.8 | 68.6 | 70.6 | 69.1 | 68.8 |  |
|  | 19-22 | - | - | - | - | - | - | - | 58.0 | 59.0 | 63.2 | 70.0 | 69.9 | 72.6 | 70.6 | 75.4 | 73.0 | 77.4 |  |
|  | 23-26 | - | - | - | - | - | - | - | 50.0 | 53.2 | 62.2 | 63.3 | 67.0 | 65.8 | 64.0 | 68.8 | 68.8 | 76.1 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 53.6 | 52.7 | 60.9 | 59.2 | 61.2 | 64.3 | 61.0 | 65.9 | 68.2 |  |
| Take cocaine powder regularly | 18 | - | - | - | - | - | - | - | 81.4 | 82.9 | 83.9 | 90.2 | 88.9 | 88.4 | 87.0 | 88.6 | 87.8 | 86.8 |  |
|  | 19-22 | - | - | - | - | - | - | - | 86.6 | 87.6 | 91.3 | 92.5 | 93.8 | 92.1 | 94.0 | 94.9 | 93.5 | 93.8 |  |
|  | 23-26 | - | - | - | - | - | - | - | 82.9 | 84.1 | 88.5 | 92.4 | 93.8 | 91.3 | 92.4 | 92.8 | 92.1 | 94.8 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 85.1 | 86.7 | 92.7 | 91.1 | 91.5 | 92.5 | 90.7 | 92.7 | 91.7 |  |
| Try heroin once or twice ${ }^{9}$ | 18 | 52.1 | 52.9 | 51.1 | 50.8 | 49.8 | 47.3 | 45.8 | 53.6 | 54.0 | 53.8 | 55.4 | 55.2 | 50.9 | 50.7 | 52.8 | 50.9 | 52.5 |  |
|  | 19-22 | 57.8 | 56.8 | 54.4 | 52.5 | 58.7 | 51.0 | 55.5 | 57.9 | 58.9 | 59.6 | 58.3 | 59.9 | 59.8 | 58.9 | 60.8 | 58.9 | 61.0 |  |
|  | 23-26 | - | - | - | - | 58.2 | 59.2 | 60.8 | 66.6 | 65.4 | 62.3 | 64.1 | 62.4 | 63.7 | 65.0 | 63.3 | 64.1 | 63.5 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 66.0 | 69.7 | 67.5 | 66.1 | 66.5 | 69.3 | 69.6 | 66.4 | 66.4 |  |
| Take heroin occasionally ${ }^{9}$ | 18 | 70.9 | 72.2 | 69.8 | 71.8 | 70.7 | 69.8 | 68.2 | 74.6 | 73.8 | 75.5 | 76.6 | 74.9 | 74.2 | 72.0 | 72.1 | 71.0 | 74.8 |  |
|  | 19-22 | 77.5 | 77.8 | 73.6 | 74.5 | 74.9 | 73.6 | 77.2 | 77.6 | 77.5 | 79.8 | 80.8 | 80.2 | 81.6 | 78.8 | 79.0 | 77.9 | 82.1 |  |
|  | 23-26 | - | - | - | - | 81.2 | 80.7 | 78.9 | 84.5 | 82.4 | 80.8 | 83.4 | 84.4 | 81.5 | 82.1 | 80.8 | 85.3 | 82.4 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 86.0 | 86.8 | 85.3 | 84.3 | 84.9 | 86.2 | 86.8 | 83.1 | 83.8 |  |
| Take heroin regularly ${ }^{9}$ | 18 | 86.2 | 87.5 | 86.0 | 86.1 | 87.2 | 86.0 | 87.1 | 88.7 | 88.8 | 89.5 | 90.2 | 89.6 | 89.2 | 88.3 | 88.0 | 87.2 | 89.5 |  |
|  | 19-22 | 87.2 | 89.9 | 87.5 | 88.6 | 86.8 | 90.2 | 90.7 | 90.2 | 89.6 | 90.8 | 91.2 | 91.5 | 92.2 | 89.2 | 91.2 | 89.9 | 94.0 |  |
|  | 23-26 | - | - | - | - | 92.0 | 90.1 | 90.6 | 92.8 | 91.5 | 91.3 | 91.0 | 92.6 | 91.3 | 91.6 | 93.0 | 93.5 | 92.7 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 92.7 | 93.5 | 93.0 | 90.7 | 91.3 | 92.6 | 93.8 | 92.4 | 92.1 |  |
| Try narcotics other than heroin once or twice ${ }^{\text {h }}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Try narcotics other than heroin regularly ${ }^{\mathrm{h}}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Try amphetamines once or twice ${ }^{\text {b,h }}$ | 18 | 29.7 | 26.4 | 25.3 | 24.7 | 25.4 | 25.2 | 25.1 | 29.1 | 29.6 | 32.8 | 32.2 | 36.3 | 32.6 | 31.3 | 31.4 | 28.8 | 30.8 |  |
|  | 19-22 | 24.6 | 24.6 | 27.8 | 24.8 | 26.9 | 23.9 | 27.1 | 27.4 | 31.7 | 28.9 | 35.6 | 32.8 | 34.5 | 33.3 | 36.3 | 32.9 | 36.8 |  |
|  | 23-26 | - | - | - | - | 29.6 | 29.4 | 29.4 | 34.1 | 33.2 | 32.5 | 35.3 | 31.0 | 32.7 | 32.6 | 32.9 | 34.3 | 34.9 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 35.2 | 37.5 | 36.9 | 36.5 | 36.2 | 34.0 | 37.5 | 36.0 | 36.2 |  |
| Take amphetamines regularly ${ }^{\text {b,h }}$ | 18 | 69.1 | 66.1 | 64.7 | 64.8 | 67.1 | 67.2 | 67.3 | 69.4 | 69.8 | 71.2 | 71.2 | 74.1 | 72.4 | 69.9 | 67.0 | 65.9 | 66.8 |  |
|  | 19-22 | 71.9 | 69.9 | 68.3 | 69.9 | 68.4 | 68.5 | 72.3 | 72.0 | 73.9 | 71.3 | 74.0 | 77.1 | 73.5 | 73.5 | 71.6 | 72.2 | 75.8 |  |
|  | 23-26 | - | - | - | - | 75.8 | 77.2 | 75.6 | 78.2 | 77.4 | 76.7 | 77.8 | 79.4 | 76.4 | 76.2 | 73.6 | 80.5 | 78.5 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 80.6 | 82.9 | 83.3 | 79.4 | 80.3 | 79.8 | 78.4 | 77.7 | 75.6 |  |
| Try crystal methamphetamine (ice) ${ }^{\text {h }}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | 61.6 | 61.9 | 57.5 | 58.3 | 54.4 | 55.3 |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | 57.8 | 58.6 | 57.7 | 57.5 | 61.4 | 58.9 | 61.1 |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | 56.5 | 56.0 | 55.6 | 52.0 | 61.0 | 57.8 | 64.1 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | 59.6 | 57.2 | 52.7 | 60.3 | 57.9 | 58.5 | 59.1 |  |

Trends in Harmfulness as Perceived by
Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

| Q. How much do you think people risk harming themselves (physically or in other ways), if they . . . |  | Percentage saying "great risk" a |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Age Group | $\underline{1997}$ | $\underline{1998}$ | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ |  |
| Try crack once or twice ${ }^{h}$ | 18 | 54.0 | 52.2 | 48.2 | 48.4 | 49.4 | 50.8 | 47.3 | 47.8 | 48.4 | 47.8 | 47.3 | 47.5 | 48.4 | 50.2 | 51.7 | 52.0 | 55.6 | 54.5 | -1.0 |
|  | 19-22 | 62.0 | 59.3 | 56.1 | 52.9 | 54.1 | 54.1 | 55.1 | 56.8 | 56.6 | 55.3 | 51.9 | 54.9 | 54.9 | 53.7 | 56.6 | - | - | - | - |
|  | 23-26 | 64.7 | 67.3 | 64.6 | 63.2 | 59.8 | 60.9 | 58.5 | 56.4 | 60.6 | 54.7 | 58.4 | 50.5 | 50.6 | 58.4 | 61.6 | - | - | - | - |
|  | 27-30 | 68.5 | 66.5 | 65.0 | 62.9 | 69.3 | 67.4 | 66.0 | 62.6 | 61.9 | 56.8 | 64.1 | 56.2 | 56.2 | 62.2 | 60.4 | - | - | - | - |
| Take crack occasionally ${ }^{h}$ | 18 | 70.3 | 68.7 | 67.3 | 65.8 | 65.4 | 65.6 | 64.0 | 64.5 | 63.8 | 64.8 | 63.6 | 65.2 | 64.7 | 64.3 | 66.2 | 66.5 | 69.5 | 68.5 | -0.9 |
|  | 19-22 | 79.1 | 79.1 | 75.5 | 74.9 | 72.3 | 75.3 | 75.3 | 76.0 | 75.0 | 72.8 | 77.7 | 75.7 | 75.7 | 73.6 | 74.8 | - | - | - | - |
|  | 23-26 | 80.8 | 84.2 | 81.6 | 84.0 | 80.1 | 82.2 | 77.1 | 76.4 | 78.6 | 76.8 | 79.8 | 75.2 | 75.2 | 77.7 | 82.8 | - | - | - | - |
|  | 27-30 | 85.3 | 81.7 | 79.8 | 81.6 | 84.4 | 81.5 | 81.9 | 82.1 | 79.5 | 82.8 | 79.1 | 77.3 | 77.3 | 80.1 | 79.6 | - | - | - | -s |
| Take crack regularly ${ }^{\text {h }}$ | 18 | 86.2 | 85.3 | 85.4 | 85.3 | 85.8 | 84.1 | 83.2 | 83.5 | 83.3 | 82.8 | 82.6 | 83.4 | 84.0 | 83.8 | 83.9 | 84.0 | 85.4 | 82.0 | -3.4 s |
|  | 19-22 | 93.3 | 92.8 | 92.3 | 91.1 | 89.6 | 91.1 | 93.8 | 93.3 | 92.5 | 90.3 | 90.3 | 93.6 | 93.6 | 93.1 | 90.8 | - | - | - | - |
|  | 23-26 | 91.4 | 95.6 | 94.4 | 95.6 | 93.4 | 94.7 | 92.2 | 92.5 | 93.1 | 93.3 | 93.1 | 91.8 | 91.8 | 93.7 | 94.1 | - | - | - | - |
|  | 27-30 | 96.0 | 94.3 | 95.2 | 93.5 | 96.8 | 94.2 | 94.4 | 94.0 | 95.2 | 94.1 | 93.6 | 93.1 | 93.1 | 93.9 | 92.6 | - | - | - | - |
| Try cocaine powder once or twice ${ }^{i}$ | 18 | 51.4 | 48.5 | 46.1 | 47.0 | 49.0 | 49.5 | 46.2 | 45.4 | 46.2 | 45.8 | 45.1 | 45.1 | 46.5 | 48.2 | 48.0 | 48.1 | 49.9 | 49.9 | 0.0 |
|  | 19-22 | 53.8 | 53.0 | 47.9 | 48.0 | 47.1 | 47.9 | 49.4 | 48.7 | 50.2 | 48.7 | 46.8 | 48.3 | 48.3 | 44.4 | 51.3 | 52.2 | 51.3 | 51.3 | -1.5 |
|  | 23-26 | 53.6 | 54.1 | 53.8 | $53.2$ | 53.9 | $52.5$ | $50.8$ | 46.0 | 53.3 | 45.8 | $48.1$ | 44.1 | 44.2 | $43.9$ | $47.4$ | 52.5 | 47.4 | $47.4$ | $+0.7$ |
|  | 27-30 | $49.1$ | $49.8$ | $49.7$ | $52.2$ | $53.3$ | $54.4$ | $56.6$ | $52.5$ | $52.9$ | $49.0$ | $53.6$ | $47.2$ | $47.2$ | $52.1$ | $48.3$ | 53.5 | 48.3 | $48.3$ | $-0.7$ |
| Take cocaine powder occasionally ${ }^{\text {i }}$ | 18 | 67.7 | 65.4 | 64.2 | 64.7 | 63.2 | 64.4 | 61.4 | 61.6 | 60.8 | 61.9 | 59.9 | 61.6 | 62.6 | 62.6 | 64.2 | 62.6 | 65.4 | 64.8 | -0.5 |
|  | 19-22 | 70.7 | 73.0 | 69.3 | 69.3 | 64.4 | 68.9 | 69.3 | 68.6 | 68.1 | 66.4 | 67.1 | 68.5 | 68.5 | 63.7 | 64.5 | 69.4 | 64.5 | 64.5 | -1.8 |
|  | 23-26 | 72.8 | 77.0 | 70.8 | 76.0 | 70.5 | 73.7 | 67.9 | 64.6 | 69.9 | 66.7 | 69.9 | 64.5 | 64.5 | 65.5 | 68.2 | 73.0 | 68.2 | 68.2 | -1.1 |
|  | 27-30 | 69.7 | 68.5 | 70.1 | 71.3 | 73.5 | 71.9 | 71.7 | 71.5 | 71.7 | 73.1 | 69.3 | 64.9 | 65.0 | 68.9 | 68.8 | 71.0 | 68.8 | 68.8 | -2.8 |
| Take cocaine powder regularly ${ }^{i}$ | 18 | 86.0 | 84.1 | 84.6 | 85.5 | 84.4 | 84.2 | 82.3 | 81.7 | 82.7 | 82.1 | 81.5 | 82.5 | 83.4 | 81.8 | 83.3 | 83.3 | 83.9 | 81.5 | -2.4 |
|  | 19-22 | 92.8 | 91.5 | 92.4 | 90.7 | 89.8 | 91.0 | 92.0 | 91.6 | 90.7 | 89.1 | 89.5 | 92.3 | 92.3 | 90.7 | 91.0 | 88.3 | 90.2 | 88.6 | -1.5 |
|  | 23-26 | 90.8 | 93.7 | 93.6 | 94.2 | 92.2 | 93.4 | 89.1 | 89.4 | 91.2 | 92.9 | 92.3 | 90.5 | 90.5 | 91.0 | 93.8 | 90.6 | 88.7 | 86.1 | -2.6 |
|  | 27-30 | 93.0 | 92.3 | 93.1 | 91.5 | 94.0 | 93.3 | 94.1 | 93.1 | 93.9 | 92.4 | 92.5 | 90.1 | 90.2 | 92.1 | 91.5 | 92.2 | 90.9 | 89.2 | -1.7 |
| Try heroin once or twice ${ }^{g}$ | 18 | 56.7 | 57.8 | 56.0 | 54.2 | 55.6 | 56.0 | 58.0 | 56.6 | 55.2 | 59.1 | 58.4 | 55.5 | 59.3 | 58.3 | 59.1 | 59.4 | 61.7 | 62.8 | +1.1 |
|  | 19-22 | 63.9 | 60.7 | 63.5 | 63.2 | 64.0 | 63.1 | 64.6 | 67.3 | 66.5 | 65.0 | 69.6 | 67.7 | 67.3 | 64.2 | 66.5 | 66.8 | 68.9 | 66.1 | -2.8 |
|  | 23-26 | 67.3 | 67.3 | 68.0 | 70.7 | 71.9 | 69.8 | 70.6 | 67.5 | 69.2 | 67.0 | 68.3 | 70.1 | 69.2 | 75.6 | 71.3 | 74.8 | 69.2 | 70.8 | +1.6 |
|  | 27-30 | 67.9 | 69.7 | 70.1 | 67.4 | 68.2 | 70.9 | 72.3 | 68.4 | 74.4 | 70.8 | 70.2 | 70.2 | 67.6 | 69.6 | 69.1 | 70.4 | 72.7 | 71.7 | -1.0 |
| Take heroin occasionally ${ }^{g}$ | 18 | 76.3 | 76.9 | 77.3 | 74.6 | 75.9 | 76.6 | 78.5 | 75.7 | 76.0 | 79.1 | 76.2 | 75.3 | 79.7 | 74.8 | 77.2 | 78.0 | 78.2 | 77.9 | -0.2 |
|  | 19-22 | 84.7 | 80.4 | 82.5 | 82.0 | 83.6 | 82.2 | 84.9 | 85.1 | 83.8 | 84.3 | 85.4 | 84.5 | 83.3 | 81.3 | 82.9 | 82.1 | 85.0 | 83.3 | -1.8 |
|  | 23-26 | 86.5 | 83.9 | 88.5 | 86.6 | 88.4 | 90.0 | 88.3 | 86.7 | 87.5 | 85.2 | 86.5 | 88.0 | 87.8 | 90.0 | 88.6 | 84.2 | 85.1 | 85.9 | +0.8 |
|  | 27-30 | 85.8 | 86.6 | 87.1 | 86.5 | 86.4 | 87.9 | 87.4 | 88.6 | 91.2 | 88.3 | 88.5 | 87.7 | 87.7 | 90.1 | 85.8 | 86.2 | 88.6 | 83.7 | -4.9 s |
| Take heroin regularly ${ }^{9}$ | 18 | 88.9 | 89.1 | 89.9 | 89.2 | 88.3 | 88.5 | 89.3 | 86.8 | 87.5 | 89.7 | 87.8 | 86.4 | 89.9 | 85.5 | 87.9 | 88.6 | 87.6 | 85.7 | -1.9 s |
|  | 19-22 | 93.7 | 92.4 | 92.8 | 94.0 | 91.3 | 92.6 | 93.9 | 94.3 | 94.9 | 94.2 | 93.6 | 92.3 | 92.6 | 90.8 | 91.8 | 93.8 | 93.5 | 94.0 | +0.5 |
|  | 23-26 | 94.4 | 93.4 | 93.7 | 94.8 | 95.9 | 96.3 | 96.5 | 96.0 | 94.8 | 95.8 | 93.1 | 95.7 | 94.5 | 97.1 | 94.2 | 92.5 | 95.0 | 96.2 | +1.2 |
|  | 27-30 | 93.8 | 95.0 | 93.7 | 94.2 | 94.5 | 95.9 | 94.9 | 95.0 | 97.3 | 95.3 | 94.8 | 95.4 | 93.9 | 97.2 | 94.7 | 93.6 | 96.2 | 96.1 | -0.1 |
| Try narcotics other than heroin once or twice ${ }^{h}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | 40.4 | 39.9 | 38.4 | 43.1 | 42.7 | -0.4 |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 47.3 | 46.1 | 49.8 | +3.7 |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 45.3 | 44.1 | 45.2 | +1.1 |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 43.0 | 47.3 | 48.5 | +1.2 |
| Try narcotics other than heroin regularly ${ }^{\text {h }}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | 74.9 | 75.5 | 73.9 | 75.8 | 72.7 | -3.1 |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 70.3 | 74.9 | 76.0 | +1.1 |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 78.2 | 75.6 | 75.8 | +0.3 |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 76.2 | 75.7 | 76.0 | +0.3 |
| Try amphetamines once or twice ${ }^{\text {b,h }}$ | 18 | 31.0 | 35.3 | 32.2 | 32.6 | 34.7 | 34.4 | 36.8 | 35.7 | 37.7 | 39.5 | 41.3 | 39.2 | 41.9 | 40.6 | 34.8 | 34.3 | 36.3 | 34.1 | -2.2 |
|  | 19-22 | 30.1 | 31.7 | 33.7 | 35.0 | 34.2 | 38.1 | 40.2 | 36.8 | 38.3 | 40.0 | 38.4 | 42.1 | 39.3 | 40.8 | 34.7 | 31.9 | 33.8 | 32.8 | -1.0 |
|  | 23-26 | 37.8 | 40.9 | 41.8 | 39.9 | 41.6 | 38.0 | 38.3 | 33.2 | 39.1 | 37.0 | 38.0 | 40.8 | 40.7 | 42.2 | 31.4 | 37.8 | 31.4 | 37.4 | +6.0 |
|  | 27-30 | 34.5 | 37.6 | 36.3 | 39.4 | 38.5 | 39.0 | 40.5 | 39.2 | 38.2 | 39.7 | 37.4 | 36.5 | 36.2 | 38.5 | 36.9 | 35.3 | 34.0 | 30.4 | -3.6 |
| Take amphetamines regularly ${ }^{\text {b,h }}$ | 18 | 66.0 | 67.7 | 66.4 | 66.3 | 67.1 | 64.8 | 65.6 | 63.9 | 67.1 | 68.1 | 68.1 | 65.4 | 69.0 | 63.6 | 58.7 | 60.0 | 59.5 | 55.1 | -4.4 s |
|  | 19-22 | 72.3 | 71.9 | 72.4 | 73.4 | 71.1 | 72.7 | 75.0 | 72.4 | 74.1 | 72.1 | 73.8 | 74.2 | 74.7 | 76.9 | 66.1 | 69.8 | 63.9 | 65.3 | +1.4 |
|  | 23-26 | 79.1 | 77.5 | 78.7 | 79.0 | 77.7 | 77.9 | 80.1 | 75.1 | 80.1 | 78.3 | 77.0 | 76.5 | 73.9 | 80.8 | 69.7 | 68.3 | 64.9 | 68.5 | +3.6 |
|  | 27-30 | 77.4 | 81.1 | 82.6 | 80.8 | 79.9 | 79.8 | 81.5 | 77.6 | 78.9 | 78.9 | 77.6 | 78.9 | 80.1 | 81.3 | 75.1 | 73.5 | 67.8 | 65.6 | -2.2 |
| $\begin{aligned} & \text { Try crystal } \\ & \text { methamphetamine (ice) } \end{aligned}$ | 18 | 54.4 | 52.7 | 51.2 | 51.3 | 52.7 | 53.8 | 51.2 | 52.4 | 54.6 | 59.1 | 60.2 | 62.2 | 63.4 | 64.9 | 66.5 | 67.8 | 72.2 | 70.2 | -2.0 |
|  | 19-22 | 56.4 | 55.8 | 50.6 | 49.2 | 52.5 | 56.5 | 60.0 | 60.3 | 63.1 | 63.5 | 65.0 | 70.0 | 70.0 | 70.7 | 74.2 | - | - | - | - |
|  | 23-26 | 60.7 | 58.2 | 61.3 | 60.1 | 59.2 | 57.7 | 58.6 | 55.9 | 63.9 | 63.9 | 66.6 | 65.6 | 65.6 | 70.1 | 74.6 | - | - | - | - |
|  | 27-30 | 59.8 | 59.9 | 61.0 | 59.7 | 66.4 | 62.5 | 66.6 | 62.8 | 62.6 | 64.9 | 67.9 | 62.0 | 62.0 | 70.2 | 72.9 | - | - | - | - |

TABLE 6-1 (cont.)
Trends in Harmfulness as Perceived by
Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

| Q. How much do you think people risk harming themselves (physically or in other ways), if they . . . | AgeGroup | Percentage saying "great risk" a |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1980 | 1981 | 1982 | 1983 | 1984 | $\underline{1985}$ | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | $\xrightarrow{\longrightarrow}$ |
| Try bath salts (synthetic stimulants) once or twice ${ }^{h}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Try bath salts (synthetic stimulants) occasionally ${ }^{h}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Try Adderall once or twice ${ }^{h}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Take Adderall occasionally ${ }^{\text {h }}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Try sedatives/ barbiturates once or twice ${ }^{\mathrm{c}, \mathrm{h}}$ | 18 | 30.9 | 28.4 | 27.5 | 27.0 | 27.4 | 26.1 | 25.4 | 30.9 | 29.7 | 32.2 | 32.4 | 35.1 | 32.2 | 29.2 | 29.9 | 26.3 | 29.1 |  |
|  | 19-22 | 27.6 | 26.4 | 30.5 | 25.4 | 29.9 | 25.0 | 30.7 | 29.6 | 32.7 | 30.5 | 36.4 | 33.5 | 33.5 | 33.4 | 35.0 | 30.5 | 34.1 |  |
|  | 23-26 | - | - | - | - | 32.2 | 29.9 | 30.2 | 35.5 | 35.8 | 32.9 | 37.9 | 31.8 | 33.5 | 32.8 | 34.0 | 34.8 | 35.8 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 37.2 | 38.7 | 39.0 | 37.0 | 38.2 | 36.5 | 40.5 | 36.6 | 37.2 |  |
| Take sedatives/ barbiturates regularly ${ }^{\mathrm{c}, \mathrm{h}}$ | 18 | 72.2 | 69.9 | 67.6 | 67.7 | 68.5 | 68.3 | 67.2 | 69.4 | 69.6 | 70.5 | 70.2 | 70.5 | 70.2 | 66.1 | 63.3 | 61.6 | 60.4 |  |
|  | 19-22 | 74.0 | 73.3 | 72.7 | 71.3 | 71.6 | 71.7 | 74.5 | 73.0 | 74.0 | 71.7 | 75.5 | 75.5 | 73.6 | 71.1 | 69.4 | 66.4 | 70.7 |  |
|  | 23-26 | - | - | - | - | 77.4 | 77.0 | 74.9 | 79.9 | 79.8 | 76.6 | 80.5 | 77.7 | 76.3 | 75.0 | 74.3 | 77.6 | 77.1 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 81.5 | 83.7 | 84.0 | 79.6 | 78.6 | 80.2 | 78.3 | 77.7 | 74.1 |  |
| Try one or two drinks of an alcoholic beverage (beer, wine, liquor) ${ }^{\text {' }}$ | 18 | 3.8 | 4.6 | 3.5 | 4.2 | 4.6 | 5.0 | 4.6 | 6.2 | 6.0 | 6.0 | 8.3 | 9.1 | 8.6 | 8.2 | 7.6 | 5.9 | 7.3 |  |
|  | 19-22 | 3.0 | 3.4 | 3.1 | 2.3 | 4.7 | 3.1 | 5.4 | 3.5 | 3.9 | 5.9 | 6.1 | 5.4 | 5.8 | 6.6 | 6.5 | 4.5 | 3.3 |  |
|  | 23-26 | - | - | - | - | 5.5 | 3.0 | 6.5 | 6.6 | 4.2 | 5.1 | 5.7 | 4.4 | 5.6 | 3.2 | 4.5 | 4.3 | 4.8 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 5.0 | 6.3 | 4.4 | 6.6 | 5.6 | 4.7 | 4.1 | 6.7 | 4.7 |  |
| Take one or two drinks nearly every day ${ }^{\text {i }}$ | 18 | 20.3 | 21.6 | 21.6 | 21.6 | 23.0 | 24.4 | 25.1 | 26.2 | 27.3 | 28.5 | 31.3 | 32.7 | 30.6 | 28.2 | 27.0 | 24.8 | 25.1 |  |
|  | 19-22 | 22.7 | 22.9 | 23.2 | 23.2 | 25.0 | 26.3 | 27.3 | 26.1 | 26.5 | 28.1 | 30.1 | 29.1 | 30.2 | 28.0 | 27.5 | 24.0 | 23.0 |  |
|  | 23-26 | - | - | - | - | 27.8 | 27.4 | 26.9 | 30.2 | 29.1 | 27.8 | 31.1 | 30.4 | 31.6 | 25.9 | 26.2 | 26.1 | 22.0 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 27.4 | 31.7 | 32.2 | 31.7 | 30.9 | 28.0 | 27.4 | 27.2 | 24.0 |  |
| Take four or five drinks nearly every day ${ }^{\text {i }}$ | 18 | 65.7 | 64.5 | 65.5 | 66.8 | 68.4 | 69.8 | 66.5 | 69.7 | 68.5 | 69.8 | 70.9 | 69.5 | 70.5 | 67.8 | 66.2 | 62.8 | 65.6 |  |
|  | 19-22 | 71.2 | 72.7 | 73.3 | 72.7 | 76.2 | 74.1 | 74.0 | 76.4 | 72.8 | 75.7 | 76.1 | 75.5 | 71.8 | 72.1 | 70.3 | 72.5 | 68.5 |  |
|  | 23-26 | - | - | - | - | 76.7 | 77.9 | 80.1 | 77.2 | 81.8 | 76.9 | 79.7 | 80.2 | 78.0 | 76.7 | 77.5 | 75.2 | 72.0 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 79.3 | 81.7 | 84.7 | 79.1 | 79.9 | 79.1 | 76.6 | 82.2 | 76.1 |  |
| Have five or more drinks once or twice each weekend ${ }^{\text {i }}$ | 18 | 35.9 | 36.3 | 36.0 | 38.6 | 41.7 | 43.0 | 39.1 | 41.9 | 42.6 | 44.0 | 47.1 | 48.6 | 49.0 | 48.3 | 46.5 | 45.2 | 49.5 |  |
|  | 19-22 | 34.2 | 30.1 | 33.5 | 36.6 | 37.9 | 40.2 | 34.6 | 36.7 | 36.9 | 42.4 | 40.6 | 40.8 | 41.8 | 42.4 | 41.9 | 39.9 | 40.7 |  |
|  | 23-26 | - | - | - | - | 38.4 | 39.7 | 39.1 | 39.8 | 35.8 | 37.7 | 40.2 | 39.3 | 37.6 | 36.2 | 40.2 | 37.9 | 39.1 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 41.0 | 42.3 | 44.1 | 42.2 | 45.1 | 42.9 | 43.2 | 44.6 | 41.5 |  |
| Smoke one or more packs of cigarettes per day ${ }^{\text {f }}$ | 18 | 63.7 | 63.3 | 60.5 | 61.2 | 63.8 | 66.5 | 66.0 | 68.6 | 68.0 | 67.2 | 68.2 | 69.4 | 69.2 | 69.5 | 67.6 | 65.6 | 68.2 |  |
|  | 19-22 | 66.5 | 61.7 | 64.0 | 62.1 | 69.1 | 71.4 | 70.4 | 70.6 | 71.0 | 73.4 | 72.5 | 77.9 | 72.6 | 76.0 | 71.2 | 71.6 | 73.8 |  |
|  | 23-26 | - | - | - | - | 71.1 | 70.1 | 75.7 | 73.6 | 75.5 | 71.4 | 78.5 | 75.3 | 76.3 | 78.4 | 76.4 | 76.0 | 76.0 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 72.8 | 75.2 | 77.8 | 75.4 | 77.6 | 75.0 | 75.3 | 75.6 | 73.0 |  |
| Use electronic cigarettes (e-cigarettes) regularly | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Use smokeless tobacco regularly ${ }^{h}$ | 18 | - | - | - | - | - | - | 25.8 | 30.0 | 33.2 | 32.9 | 34.2 | 37.4 | 35.5 | 38.9 | 36.6 | 33.2 | 37.4 |  |
|  | 19-22 | - | - | - | - | - | - | 29.7 | 34.1 | 31.1 | 37.1 | 33.5 | 38.9 | 40.1 | 43.3 | 37.6 | 42.3 | 40.9 |  |
|  | 23-26 | - | - | - | - | - | - | 37.0 | 38.5 | 35.8 | 37.9 | 40.1 | 38.9 | 41.6 | 44.6 | 42.9 | 46.6 | 47.2 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 42.8 | 42.8 | 43.8 | 44.3 | 44.1 | 47.3 | 46.3 | 44.2 | 43.6 |  |
| Approximate Weighted $N$ <br> Per Form = | 18 | 3,234 | 3,604 | 3,557 | 3,305 | 3,262 | 3,250 | 3,020 | 3,315 | 3,276 | 2,796 | 2,553 | 2,549 | 2,684 | 2,759 | 2,591 | 2,603 | 2,449 |  |
|  | 19-22 | 590 | 585 | 583 | 585 | 579 | 547 | 581 | 570 | 551 | 565 | 552 | 533 | 527 | 480 | 490 | 500 | 469 |  |
|  | 23-26 |  |  |  |  | 540 | 512 | 545 | 531 | 527 | 498 | 511 | 505 | 518 | 503 | 465 | 446 | 438 |  |
|  | 27-30 |  |  |  |  |  |  |  |  | 513 | 587 | 490 | 486 | 482 | 473 | 443 | 450 | 422 |  |

(Table continued on next page.)

TABLE 6-1 (cont.)
Trends in Harmfulness as Perceived by
Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Percentage saying "great risk" a

| Q. How much do you think people risk harming themselves (physically or in other ways), if they . . . | Age Group | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Try bath salts (synthetic | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 33.2 | 59.5 | 59.2 | -0.4 |
| stimulants) once | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 44.5 | 62.7 | 68.8 | +6.1 |
| or twice ${ }^{\text {h }}$ | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 46.7 | 66.3 | 67.3 | +1.1 |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 48.7 | 64.5 | 73.7 | +9.2 s |
| ```Take bath salts (synthetic stimulants) occasionally }\mp@subsup{}{}{h``` | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 45.0 | 69.9 | 68.8 | -1.0 |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 52.6 | 70.1 | 76.1 | +6.0 |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 54.0 | 75.3 | 76.7 | +1.3 |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 55.9 | 71.5 | 78.4 | +6.9 |
| Try Adderall once or twice ${ }^{\text {h }}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | 33.3 | 31.2 | 27.2 | 31.8 | 33.6 | +1.8 |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 30.0 | 27.7 | 31.5 | +3.8 |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 28.9 | 32.9 | 32.2 | -0.7 |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 29.4 | 32.7 | 35.9 | +3.2 |
| Take Adderall occasionally ${ }^{\text {h }}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | 41.6 | 40.8 | 35.3 | 38.8 | 41.5 | +2.7 |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 38.8 | 39.8 | 41.8 | +2.1 |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 39.7 | 44.8 | 44.9 | +0.1 |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 44.1 | 45.0 | 45.3 | +0.3 |
| Try sedatives/ barbiturates once or twice ${ }^{\mathrm{c}, \mathrm{h}}$ | 18 | 26.9 | 29.0 | 26.1 | 25.0 | 25.7 | 26.2 | 27.9 | 24.9 | 24.7 | 28.0 | 27.9 | 25.9 | 29.6 | 28.0 | 27.8 | 27.8 | 29.4 | 29.6 | +0.2 |
|  | 19-22 | 31.4 | 27.7 | 28.5 | 30.3 | 30.0 | 30.7 | 32.7 | 26.7 | 26.9 | 28.9 | 28.1 | 31.9 | 26.2 | 28.7 | 30.1 | 32.8 | 30.5 | 32.7 | +2.2 |
|  | 23-26 | 37.3 | 40.3 | 39.4 | 37.0 | 38.5 | 34.7 | 36.5 | 22.2 | 29.8 | 26.3 | 25.9 | 28.4 | 31.1 | 36.2 | 28.8 | 35.9 | 31.8 | 34.8 | +3.1 |
|  | 27-30 | 35.7 | 36.7 | 35.2 | 36.3 | 40.9 | 37.3 | 38.6 | 31.4 | 31.7 | 28.8 | 28.0 | 27.8 | 27.5 | 27.4 | 34.4 | 28.7 | 31.9 | 25.0 | -6.9 |
| Take sedatives/ barbiturates regularly ${ }^{\text {c,h }}$ | 18 | 56.8 | 56.3 | 54.1 | 52.3 | 50.3 | 49.3 | 49.6 | 54.0 | 54.1 | 56.8 | 55.1 | 50.2 | 54.7 | 52.1 | 52.4 | 53.9 | 53.3 | 50.5 | -2.8 |
|  | 19-22 | 69.5 | 65.1 | 64.7 | 64.6 | 61.8 | 64.5 | 63.8 | 60.2 | 64.4 | 61.3 | 63.2 | 64.0 | 59.4 | 64.6 | 63.6 | 68.2 | 64.7 | 66.9 | +2.2 |
|  | 23-26 | 75.2 | 73.9 | 75.1 | 73.8 | 73.1 | 73.1 | 72.8 | 63.9 | 67.0 | 67.6 | 64.8 | 66.8 | 64.4 | 69.6 | 64.9 | 71.4 | 67.6 | 72.3 | +4.6 |
|  | 27-30 | 77.1 | 79.9 | 80.7 | 75.5 | 78.2 | 75.4 | 79.0 | 70.1 | 75.2 | 68.0 | 70.0 | 70.4 | 69.0 | 71.1 | 71.4 | 70.7 | 72.6 | 64.2 | -8.3 s |
| Try one or two drinks of an alcoholic beverage (beer, wine, liquor) ${ }^{i}$ | 18 | 6.7 | 8.0 | 8.3 | 6.4 | 8.7 | 7.6 | 8.4 | 8.6 | 8.5 | 9.3 | 10.5 | 10.0 | 9.4 | 10.8 | 9.4 | 8.7 | 9.9 | 8.6 | -1.3 |
|  | 19-22 | 3.2 | 4.2 | 5.7 | 5.4 | 4.8 | 6.6 | 7.5 | 5.1 | 3.8 | 7.7 | 5.1 | 7.9 | 4.1 | 6.8 | 7.2 | 6.4 | 5.8 | 5.7 | 0.0 |
|  | 23-26 | 4.4 | 4.4 | 6.6 | 3.5 | 5.5 | 5.1 | 5.7 | 4.7 | 5.3 | 5.1 | 4.8 | 6.5 | 5.7 | 5.5 | 4.0 | 3.5 | 4.3 | 5.4 | +1.1 |
|  | 27-30 | 4.0 | 6.2 | 5.9 | 4.7 | 5.5 | 3.1 | 6.9 | 4.6 | 7.3 | 4.2 | 6.2 | 3.4 | 4.1 | 4.7 | 6.6 | 4.8 | 4.0 | 3.8 | -0.2 |
| Take one or two drinks nearly every day ${ }^{\text {i }}$ | 18 | 24.8 | 24.3 | 21.8 | 21.7 | 23.4 | 21.0 | 20.1 | 23.0 | 23.7 | 25.3 | 25.1 | 24.2 | 23.7 | 25.4 | 24.6 | 23.7 | 23.1 | 21.1 | -2.0 |
|  | 19-22 | 24.2 | 22.1 | 23.9 | 22.1 | 19.6 | 22.7 | 19.8 | 21.3 | 22.1 | 22.0 | 19.0 | 24.4 | 20.6 | 20.8 | 20.1 | 23.1 | 20.0 | 22.4 | +2.4 |
|  | 23-26 | 20.2 | 21.0 | 26.0 | 21.7 | 23.5 | 23.4 | 19.1 | 22.9 | 19.9 | 22.5 | 21.2 | 21.0 | 21.1 | 20.8 | 14.4 | 18.4 | 18.8 | 17.5 | -1.3 |
|  | 27-30 | 24.8 | 20.8 | 25.3 | 22.0 | 22.7 | 21.7 | 21.4 | 21.8 | 23.7 | 20.2 | 21.5 | 21.5 | 20.6 | 18.2 | 16.9 | 19.8 | 17.4 | 16.5 | -0.9 |
| Take four or five drinks nearly every day ${ }^{\text {' }}$ | 18 | 63.0 | 62.1 | 61.1 | 59.9 | 60.7 | 58.8 | 57.8 | 59.2 | 61.8 | 63.4 | 61.8 | 60.8 | 62.4 | 61.1 | 62.3 | 63.6 | 62.4 | 61.2 | -1.3 |
|  | 19-22 | 71.4 | 70.4 | 69.9 | 69.9 | 64.5 | 71.1 | 66.4 | 65.3 | 63.0 | 66.6 | 68.8 | 68.5 | 67.1 | 65.6 | 67.4 | 69.6 | 68.7 | 67.9 | -0.9 |
|  | 23-26 | 75.1 | 69.3 | 72.8 | 71.7 | 75.8 | 74.9 | 71.1 | 74.2 | 71.2 | 72.4 | 70.2 | 70.0 | 67.8 | 68.3 | 69.9 | 73.1 | 69.7 | 69.2 | -0.5 |
|  | 27-30 | 79.3 | 75.7 | 75.1 | 77.4 | 72.8 | 76.2 | 70.6 | 72.1 | 77.5 | 73.0 | 76.5 | 77.1 | 71.6 | 71.6 | 73.8 | 71.2 | 68.3 | 72.6 | +4.3 s |
| Have five or more drinks once or twice each weekend ${ }^{\text {i }}$ | 18 | 43.0 | 42.8 | 43.1 | 42.7 | 43.6 | 42.2 | 43.5 | 43.6 | 45.0 | 47.6 | 45.8 | 46.3 | 48.0 | 46.3 | 47.6 | 48.8 | 45.8 | 45.4 | -0.4 |
|  | 19-22 | 36.6 | 42.0 | 37.2 | 38.9 | 37.2 | 37.8 | 40.4 | 38.1 | 37.5 | 37.2 | 43.4 | 41.7 | 35.2 | 40.7 | 40.1 | 41.6 | 40.6 | 43.8 | +3.2 |
|  | 23-26 | 37.4 | 41.1 | 40.2 | 34.9 | 39.0 | 36.8 | 36.3 | 37.9 | 36.8 | 38.4 | 39.7 | 37.0 | 36.2 | 35.8 | 33.6 | 39.5 | 40.2 | 38.7 | -1.5 |
|  | 27-30 | 40.0 | 40.2 | 41.9 | 37.9 | 41.6 | 40.6 | 42.5 | 40.5 | 44.0 | 39.1 | 40.4 | 40.4 | 40.1 | 38.6 | 42.0 | 41.6 | 37.2 | 41.2 | +4.0 |
| Smoke one or more packs of cigarettes per day ${ }^{f}$ | 18 | 68.7 | 70.8 | 70.8 | 73.1 | 73.3 | 74.2 | 72.1 | 74.0 | 76.5 | 77.6 | 77.3 | 74.0 | 74.9 | 75.0 | 77.7 | 78.2 | 78.2 | 78.0 | -0.2 |
|  | 19-22 | 76.3 | 77.2 | 75.7 | 77.1 | 76.6 | 80.6 | 77.8 | 81.1 | 80.5 | 80.8 | 79.3 | 79.5 | 80.3 | 79.7 | 81.5 | 82.3 | 82.8 | 82.8 | 0.0 |
|  | 23-26 | 77.6 | 76.5 | 80.9 | 79.7 | 83.9 | 85.1 | 83.6 | 84.1 | 81.6 | 86.4 | 80.7 | 83.6 | 82.0 | 83.2 | 84.8 | 83.1 | 82.9 | 82.8 | -0.1 |
|  | 27-30 | 80.3 | 80.9 | 80.7 | 78.4 | 82.7 | 80.6 | 82.0 | 81.7 | 84.1 | 83.8 | 84.3 | 86.6 | 83.6 | 89.3 | 86.6 | 84.6 | 84.1 | 83.9 | -0.2 |
| Use electronic cigarettes (e-cigarettes) regularly ${ }^{1}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14.2 | - |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 16.8 | - |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 21.7 | - |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 19.0 | - |
| Use smokeless tobacco regularly ${ }^{\text {h }}$ | 18 | 38.6 | 40.9 | 41.1 | 42.2 | 45.4 | 42.6 | 43.3 | 45.0 | 43.6 | 45.9 | 44.0 | 42.9 | 40.8 | 41.2 | 42.6 | 44.3 | 41.6 | 40.7 | -0.9 |
|  | 19-22 | 46.5 | 47.4 | 47.0 | 52.0 | 48.4 | 53.6 | 50.8 | 49.9 | 47.6 | 46.4 | 48.9 | 48.7 | 44.6 | 45.8 | 46.0 | 56.7 | 52.8 | 47.8 | -5.0 |
|  | 23-26 | 46.2 | 48.4 | 53.1 | 49.8 | 59.8 | 61.4 | 58.9 | 57.8 | 55.8 | 59.1 | 55.3 | 51.0 | 52.2 | 54.2 | 53.7 | 59.4 | 53.5 | 53.4 | -0.2 |
|  | 27-30 | 50.2 | 52.6 | 53.6 | 49.9 | 53.2 | 56.7 | 58.2 | 55.7 | 58.9 | 57.5 | 61.4 | 61.7 | 53.6 | 59.2 | 62.5 | 59.6 | 58.5 | 51.6 | -6.9 |
| Approximate Weighted $N$ Per Form = | 18 | 2,579 | 2,564 | 2,306 | 2,130 | 2,173 | 2,198 | 2,466 | 2,491 | 2,512 | 2,407 | 2,450 | 2,389 | 2,290 | 2,440 | 2,408 | 2,331 | 2,098 | 2,067 |  |
|  | 19-22 | 464 | 431 | 447 | 424 | 430 | 395 | 402 | 447 | 412 | 411 | 375 | 377 | 393 | 363 | 374 | 345 | 337 | 314 |  |
|  | 23-26 | 420 | 413 | 418 | 400 | 392 | 382 | 401 | 426 | 408 | 361 | 351 | 375 | 345 | 363 | 366 | 323 | 337 | 319 |  |
|  | 27-30 | 434 | 416 | 400 | 377 | 384 | 369 | 380 | 388 | 374 | 358 | 344 | 350 | 337 | 343 | 319 | 335 | 320 | 282 |  |

[^68]TABLE 6-2
Trends in Proportions Disapproving of Drug Use among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

| Q. Do you disapprove of people (who are 18 or older) doing each of the following? | Age Group | Percentage disapproving ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1980 | 1981 | 1982 | $\underline{1983}$ | 1984 | $\underline{1985}$ | 1986 | 1987 | 1988 | $\underline{1989}$ | 1990 | $\underline{1991}$ | 1992 | $\underline{1993}$ | 1994 | 1995 | 1996 | $\xrightarrow{\text { (Years }}$ Cont.) |
| Trying marijuana once or twice ${ }^{j}$ | 18 | 39.0 | 40.0 | 45.5 | 46.3 | 49.3 | 51.4 | 54.6 | 56.6 | 60.8 | 64.6 | 67.8 | 68.7 | 69.9 | 63.3 | 57.6 | 56.7 | 52.5 |  |
|  | 19-22 | 38.2 | 36.1 | 37.0 | 42.0 | 44.1 | 46.6 | 51.6 | 52.8 | 55.8 | 62.4 | 59.6 | 60.4 | 57.8 | 60.6 | 63.5 | 57.1 | 55.4 |  |
|  | 23-26 | - | - | - | - | 41.2 | 38.6 | 42.6 | 49.1 | 48.7 | 52.5 | 57.5 | 58.8 | 55.0 | 54.6 | 52.3 | 51.9 | 56.3 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 49.0 | 50.9 | 53.8 | 54.6 | 51.9 | 56.8 | 55.7 | 57.5 | 54.1 |  |
| Smoking marijuana occasionally ${ }^{j}$ | 18 | 49.7 | 52.6 | 59.1 | 60.7 | 63.5 | 65.8 | 69.0 | 71.6 | 74.0 | 77.2 | 80.5 | 79.4 | 79.7 | 75.5 | 68.9 | 66.7 | 62.9 |  |
|  | 19-22 | 49.6 | 49.1 | 51.3 | 56.0 | 60.4 | 62.6 | 66.7 | 67.2 | 69.5 | 77.3 | 76.3 | 77.0 | 74.8 | 75.8 | 76.9 | 70.4 | 68.9 |  |
|  | 23-26 | - | - | - | - | 54.8 | 52.8 | 57.0 | 64.9 | 63.4 | 69.4 | 73.7 | 73.3 | 74.0 | 71.9 | 70.9 | 68.1 | 72.5 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 65.3 | 67.1 | 68.9 | 73.0 | 67.2 | 72.2 | 69.4 | 72.5 | 70.5 |  |
| Smoking marijuana regularly ${ }^{j}$ | 18 | 74.6 | 77.4 | 80.6 | 82.5 | 84.7 | 85.5 | 86.6 | 89.2 | 89.3 | 89.8 | 91.0 | 89.3 | 90.1 | 87.6 | 82.3 | 81.9 | 80.0 |  |
|  | 19-22 | 74.3 | 77.2 | 80.0 | 81.8 | 84.9 | 86.7 | 89.2 | 88.7 | 89.1 | 91.2 | 93.1 | 91.3 | 89.5 | 90.2 | 90.1 | 86.8 | 87.7 |  |
|  | 23-26 | - | - | - | - | 80.6 | 81.3 | 83.3 | 87.4 | 86.9 | 90.4 | 91.0 | 89.6 | 90.2 | 92.1 | 90.3 | 90.1 | 88.9 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 87.6 | 87.5 | 89.7 | 89.6 | 87.2 | 89.4 | 88.7 | 91.9 | 89.9 |  |
| Trying LSD once or twice ${ }^{h}$ | 18 | 87.3 | 86.4 | 88.8 | 89.1 | 88.9 | 89.5 | 89.2 | 91.6 | 89.8 | 89.7 | 89.8 | 90.1 | 88.1 | 85.9 | 82.5 | 81.1 | 79.6 |  |
|  | 19-22 | 87.4 | 84.8 | 85.9 | 88.4 | 88.1 | 89.1 | 90.4 | 90.0 | 90.9 | 89.3 | 90.5 | 88.4 | 84.6 | 88.5 | 86.8 | 84.2 | 83.0 |  |
|  | 23-26 | - | - | - | - | 87.3 | 87.1 | 88.0 | 89.9 | 91.4 | 91.0 | 90.7 | 89.1 | 88.8 | 86.9 | 87.3 | 87.1 | 86.7 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 91.0 | 87.2 | 89.7 | 87.9 | 85.6 | 88.8 | 88.2 | 87.4 | 88.7 |  |
| Taking LSD regularly ${ }^{\text {h }}$ | 18 | 96.7 | 96.8 | 96.7 | 97.0 | 96.8 | 97.0 | 96.6 | 97.8 | 96.4 | 96.4 | 96.3 | 96.4 | 95.5 | 95.8 | 94.3 | 92.5 | 93.2 |  |
|  | 19-22 | 98.2 | 97.4 | 97.7 | 97.6 | 97.6 | 98.8 | 98.5 | 98.0 | 98.1 | 97.5 | 99.1 | 97.5 | 97.0 | 97.8 | 97.7 | 96.8 | 97.0 |  |
|  | 23-26 | - | - | - | - | 99.2 | 98.0 | 98.5 | 99.0 | 98.0 | 98.4 | 98.3 | 98.4 | 98.3 | 98.1 | 97.7 | 96.7 | 97.7 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 98.8 | 97.1 | 98.9 | 98.9 | 97.5 | 98.5 | 98.7 | 98.6 | 98.1 |  |
| Trying ecstasy (MDMA) once or twice ${ }^{h}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Taking ecstasy (MDMA) occasionally ${ }^{\text {h }}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Trying cocaine once or twice ${ }^{h}$ | 18 | 76.3 | 74.6 | 76.6 | 77.0 | 79.7 | 79.3 | 80.2 | 87.3 | 89.1 | 90.5 | 91.5 | 93.6 | 93.0 | 92.7 | 91.6 | 90.3 | 90.0 |  |
|  | 19-22 | 73.0 | 69.3 | 69.9 | 74.1 | 72.5 | 77.6 | 78.9 | 82.3 | 85.3 | 88.8 | 90.1 | 91.2 | 90.6 | 92.7 | 93.9 | 94.2 | 92.0 |  |
|  | 23-26 | - | - | - | - | 70.2 | 70.5 | 72.1 | 80.0 | 82.9 | 85.5 | 88.3 | 88.0 | 87.3 | 89.2 | 89.2 | 91.8 | 90.7 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 82.1 | 81.0 | 85.5 | 86.9 | 83.9 | 85.7 | 86.6 | 86.6 | 88.3 |  |
| Taking cocaine regularly ${ }^{\text {h }}$ | 18 | 91.1 | 90.7 | 91.5 | 93.2 | 94.5 | 93.8 | 94.3 | 96.7 | 96.2 | 96.4 | 96.7 | 97.3 | 96.9 | 97.5 | 96.6 | 96.1 | 95.6 |  |
|  | 19-22 | 91.6 | 89.3 | 91.9 | 94.6 | 95.0 | 96.3 | 97.0 | 97.2 | 97.9 | 97.4 | 98.9 | 97.9 | 98.4 | 97.8 | 98.8 | 98.2 | 97.9 |  |
|  | 23-26 | - | - | - | - | 95.7 | 95.3 | 97.3 | 98.1 | 97.6 | 98.3 | 98.4 | 98.5 | 98.7 | 98.4 | 98.8 | 97.7 | 97.8 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 98.1 | 97.0 | 99.3 | 99.0 | 97.2 | 98.7 | 99.0 | 98.9 | 98.5 |  |
| Trying heroin once or twice ${ }^{h}$ | 18 | 93.5 | 93.5 | 94.6 | 94.3 | 94.0 | 94.0 | 93.3 | 96.2 | 95.0 | 95.4 | 95.1 | 96.0 | 94.9 | 94.4 | 93.2 | 92.8 | 92.1 |  |
|  | 19-22 | 96.3 | 95.4 | 95.6 | 95.2 | 95.1 | 96.2 | 96.8 | 96.3 | 97.1 | 96.4 | 98.3 | 95.9 | 95.9 | 96.3 | 96.6 | 95.6 | 95.2 |  |
|  | 23-26 | - | - | - | - | 96.7 | 94.9 | 96.4 | 97.1 | 97.4 | 96.7 | 96.8 | 96.9 | 96.3 | 95.4 | 96.5 | 95.9 | 96.1 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 97.9 | 95.8 | 97.5 | 96.6 | 94.8 | 97.3 | 94.7 | 96.3 | 96.0 |  |
| Taking heroin occasionally ${ }^{\text {h }}$ | 18 | 96.7 | 97.2 | 96.9 | 96.9 | 97.1 | 96.8 | 96.6 | 97.9 | 96.9 | 97.2 | 96.7 | 97.3 | 96.8 | 97.0 | 96.2 | 95.7 | 95.0 |  |
|  | 19-22 | 98.6 | 97.8 | 98.3 | 98.3 | 98.6 | 98.7 | 98.3 | 98.3 | 98.3 | 97.9 | 99.2 | 98.2 | 98.1 | 98.1 | 98.3 | 97.7 | 97.9 |  |
|  | 23-26 | - | - | - | - | 99.2 | 98.2 | 98.8 | 99.1 | 98.4 | 98.3 | 98.1 | 99.0 | 98.7 | 98.4 | 98.6 | 97.7 | 98.7 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 99.2 | 97.3 | 99.0 | 98.9 | 97.0 | 98.9 | 98.7 | 98.9 | 98.0 |  |
| Taking heroin regularly ${ }^{\text {h }}$ | 18 | 97.6 | 97.8 | 97.5 | 97.7 | 98.0 | 97.6 | 97.6 | 98.1 | 97.2 | 97.4 | 97.5 | 97.8 | 97.2 | 97.5 | 97.1 | 96.4 | 96.3 |  |
|  | 19-22 | 99.2 | 98.5 | 98.6 | 98.7 | 98.7 | 99.1 | 98.9 | 98.6 | 98.4 | 98.3 | 99.5 | 98.5 | 98.3 | 98.4 | 98.8 | 98.4 | 98.3 |  |
|  | 23-26 | - | - | - | - | 99.4 | 98.8 | 99.1 | 99.4 | 98.7 | 98.7 | 98.5 | 99.3 | 99.2 | 98.9 | 98.8 | 98.7 | 98.9 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 99.4 | 97.6 | 99.4 | 99.0 | 97.8 | 99.0 | 99.4 | 99.1 | 98.6 |  |

[^69]TABLE 6-2 (cont.)
Trends in Proportions Disapproving of Drug Use among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

| Q. Do you disapprove of people (who are 18 or older) doing each of the following? |  | Percentage disapproving ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Age <br> Group | $\underline{1997}$ | 1998 | $\underline{1999}$ | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ |  |
| Trying marijuana once or twice ${ }^{j}$ | 18 | 51.0 | 51.6 | 48.8 | 52.5 | 49.1 | 51.6 | 53.4 | 52.7 | 55.0 | 55.6 | 58.6 | 55.5 | 54.8 | 51.6 | 51.3 | 48.8 | 49.1 | 48.0 | -1.1 |
|  | 19-22 | 56.2 | 55.9 | 54.0 | 55.2 | 49.3 | 48.7 | 54.2 | 48.3 | 50.3 | 51.2 | 47.6 | 52.7 | 46.7 | 50.5 | 49.0 | 46.0 | 44.2 | 39.7 | -4.5 s |
|  | 23-26 | 54.5 | 55.3 | 55.7 | 54.8 | 51.2 | 52.4 | 47.8 | 53.4 | 47.7 | 47.5 | 54.6 | 46.2 | 44.9 | 42.5 | 38.8 | 40.9 | 38.1 | 37.8 | -0.3 |
|  | 27-30 | 59.0 | 55.7 | 52.6 | 58.0 | 54.4 | 56.9 | 54.9 | 55.4 | 52.1 | 52.0 | 50.9 | 49.3 | 49.3 | 48.5 | 46.5 | 42.7 | 38.7 | 35.1 | -3.6 |
| Smoking marijuana occasionally ${ }^{j}$ | 18 | 63.2 | 64.4 | 62.5 | 65.8 | 63.2 | 63.4 | 64.2 | 65.4 | 67.8 | 69.3 | 70.2 | 67.3 | 65.6 | 62.0 | 60.9 | 59.1 | 58.9 | 56.7 | -2.2 |
|  | 19-22 | 70.2 | 67.8 | 66.4 | 70.7 | 64.6 | 62.3 | 68.0 | 64.3 | 67.9 | 62.6 | 64.1 | 63.3 | 59.8 | 61.3 | 61.7 | 58.2 | 54.9 | 50.7 | -4.2 s |
|  | 23-26 | 69.2 | 70.4 | 71.1 | 68.6 | 67.4 | 64.0 | 63.8 | 69.3 | 65.6 | 62.2 | 68.0 | 64.5 | 62.4 | 59.1 | 53.1 | 55.8 | 51.3 | 51.3 | +0.1 |
|  | 27-30 | 74.5 | 72.4 | 71.5 | 72.2 | 70.9 | 69.1 | 71.2 | 69.1 | 68.2 | 68.7 | 67.5 | 63.7 | 63.7 | 62.7 | 63.7 | 58.3 | 55.0 | 50.0 | -5.0 s |
| Smoking marijuana regularly ${ }^{j}$ | 18 | 78.8 | 81.2 | 78.6 | 79.7 | 79.3 | 78.3 | 78.7 | 80.7 | 82.0 | 82.2 | 83.3 | 79.6 | 80.3 | 77.7 | 77.5 | 77.8 | 74.5 | 73.4 | -1.1 |
|  | 19-22 | 88.1 | 85.3 | 84.5 | 86.6 | 84.5 | 82.8 | 84.8 | 82.7 | 84.4 | 82.5 | 83.7 | 83.6 | 80.8 | 80.7 | 78.1 | 77.0 | 75.7 | 71.3 | -4.3 s |
|  | 23-26 | 88.1 | 87.5 | 86.1 | 83.9 | 86.4 | 81.7 | 82.3 | 87.4 | 84.3 | 81.9 | 85.3 | 84.3 | 80.2 | 78.3 | 76.4 | 76.7 | 73.6 | 71.4 | -2.2 |
|  | 27-30 | 92.1 | 89.2 | 90.0 | 89.5 | 89.3 | 88.8 | 87.7 | 88.6 | 86.3 | 86.4 | 86.8 | 86.0 | 84.4 | 81.7 | 83.2 | 77.8 | 75.9 | 75.0 | -0.9 |
| Trying LSD once or twice ${ }^{h}$ | 18 | 80.5 | 82.1 | 83.0 | 82.4 | 81.8 | 84.6 | 85.5 | 87.9 | 87.9 | 88.0 | 87.8 | 85.5 | 88.2 | 86.5 | 86.3 | 87.2 | 86.6 | 85.0 | -1.6 |
|  | 19-22 | 83.1 | 80.8 | 83.2 | 82.3 | 81.4 | 83.7 | 86.2 | 85.0 | 87.6 | 85.4 | 88.5 | 86.5 | 83.0 | 86.7 | 83.3 | 84.0 | 83.5 | 77.8 | -5.7 |
|  | 23-26 | 87.9 | 84.1 | 84.8 | 80.3 | 83.0 | 79.2 | 80.1 | 84.0 | 84.0 | 84.5 | 87.6 | 81.8 | 85.0 | 82.6 | 80.1 | 83.3 | 79.7 | 79.8 | +0.2 |
|  | 27-30 | 88.7 | 87.3 | 86.6 | 87.2 | 85.7 | 82.7 | 85.6 | 82.5 | 82.2 | 82.0 | 84.1 | 82.7 | 84.5 | 85.1 | 85.1 | 82.4 | 81.4 | 82.2 | +0.8 |
| Taking LSD regularly ${ }^{h}$ | 18 | 92.9 | 93.5 | 94.3 | 94.2 | 94.0 | 94.0 | 94.4 | 94.6 | 95.6 | 95.9 | 94.9 | 93.5 | 95.3 | 94.3 | 94.9 | 95.2 | 95.3 | 94.7 | -0.6 |
|  | 19-22 | 97.4 | 96.3 | 97.0 | 96.8 | 96.5 | 96.9 | 98.4 | 97.3 | 98.9 | 97.8 | 97.7 | 96.8 | 96.8 | 96.6 | 96.5 | 96.0 | 96.7 | 97.0 | +0.3 |
|  | 23-26 | 96.1 | 97.6 | 98.0 | 97.0 | 97.1 | 97.9 | 96.9 | 97.1 | 98.7 | 97.0 | 98.4 | 97.4 | 98.2 | 96.5 | 95.9 | 97.4 | 96.1 | 95.8 | -0.2 |
|  | 27-30 | 97.5 | 97.4 | 97.9 | 98.6 | 98.2 | 98.0 | 98.2 | 98.2 | 97.2 | 96.7 | 97.2 | 97.1 | 98.6 | 98.6 | 97.1 | 97.3 | 97.2 | 97.3 | +0.1 |
| Trying ecstasy (MDMA) once or twice ${ }^{h}$ | 18 | 82.2 | 82.5 | 82.1 | 81.0 | 79.5 | 83.6 | 84.7 | 87.7 | 88.4 | 89.0 | 87.8 | 88.2 | 88.2 | 86.3 | 83.9 | 87.1 | 84.9 | 83.1 | -1.8 |
|  | 19-22 | - | - | - | - | 81.5 | 80.3 | 87.2 | 83.5 | 90.3 | 87.5 | 88.5 | 89.5 | 89.1 | 91.4 | 85.9 | 87.9 | 83.9 | 83.7 | -0.2 |
|  | 23-26 | - | - | - | - | 80.6 | 80.6 | 80.2 | 83.1 | 83.9 | 83.9 | 87.4 | 83.9 | 85.0 | 86.9 | 85.1 | 85.2 | 79.9 | 83.6 | +3.6 |
|  | 27-30 | - | - | - | - | 84.2 | 84.0 | 86.3 | 83.2 | 82.4 | 82.2 | 81.8 | 82.7 | 83.0 | 81.9 | 86.6 | 83.7 | 84.5 | 81.9 | -2.6 |
| Taking ecstasy (MDMA) occasionally ${ }^{\text {h }}$ | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 19-22 | - | - | - | - | 92.8 | 91.8 | 95.6 | 93.8 | 96.7 | 94.0 | 95.3 | 94.8 | 95.2 | 95.3 | 91.8 | 94.4 | 92.3 | 94.6 | +2.3 |
|  | 23-26 | - | - | - | - | 90.5 | 91.8 | 92.1 | 93.3 | 94.4 | 93.7 | 94.3 | 94.0 | 95.4 | 94.3 | 92.5 | 93.3 | 92.1 | 93.5 | +1.4 |
|  | 27-30 | - | - | - | - | 91.7 | 93.0 | 94.3 | 91.0 | 92.1 | 93.4 | 92.8 | 94.1 | 93.6 | 92.6 | 94.5 | 93.5 | 93.0 | 93.9 | +0.9 |
| Trying cocaine once or twice ${ }^{h}$ | 18 | 88.0 | 89.5 | 89.1 | 88.2 | 88.1 | 89.0 | 89.3 | 88.6 | 88.9 | 89.1 | 89.6 | 89.2 | 90.8 | 90.5 | 91.1 | 91.0 | 92.3 | 90.0 | -2.4 s |
|  | 19-22 | 91.7 | 89.9 | 90.9 | 89.9 | 87.7 | 87.9 | 89.3 | 87.7 | 92.3 | 88.2 | 89.2 | 85.8 | 87.8 | 87.1 | 90.1 | 89.7 | 90.5 | 86.7 | -3.8 |
|  | 23-26 | 91.5 | 89.0 | 91.3 | 87.1 | 90.1 | 85.8 | 86.4 | 87.4 | 88.3 | 84.4 | 87.6 | 84.5 | 86.2 | 86.0 | 82.7 | 86.0 | 85.7 | 84.8 | -0.9 |
|  | 27-30 | 89.2 | 90.3 | 90.4 | 89.4 | 90.3 | 88.5 | 91.5 | 88.0 | 87.0 | 85.8 | 87.7 | 87.4 | 88.3 | 87.3 | 87.0 | 85.6 | 82.5 | 85.0 | +2.5 |
| Taking cocaine regularly ${ }^{\text {h }}$ | 18 | 96.0 | 95.6 | 94.9 | 95.5 | 94.9 | 95.0 | 95.8 | 95.4 | 96.0 | 96.1 | 96.2 | 94.8 | 96.5 | 96.0 | 96.0 | 96.8 | 96.7 | 96.3 | -0.5 |
|  | 19-22 | 98.0 | 97.8 | 97.6 | 98.0 | 97.2 | 97.0 | 98.2 | 98.5 | 98.7 | 98.9 | 99.0 | 97.6 | 97.6 | 97.6 | 97.2 | 97.6 | 97.4 | 97.8 | +0.4 |
|  | 23-26 | 96.9 | 98.5 | 98.3 | 97.8 | 97.5 | 97.5 | 97.6 | 98.1 | 98.9 | 97.3 | 98.1 | 98.0 | 98.7 | 97.6 | 97.3 | 98.8 | 97.8 | 97.7 | -0.1 |
|  | 27-30 | 97.9 | 97.8 | 98.8 | 98.7 | 98.4 | 97.8 | 98.8 | 98.8 | 97.8 | 97.2 | 97.9 | 97.3 | 99.0 | 99.0 | 98.4 | 98.5 | 98.0 | 97.6 | -0.5 |
| Trying heroin once or twice ${ }^{h}$ | 18 | 92.3 | 93.7 | 93.5 | 93.0 | 93.1 | 94.1 | 94.1 | 94.2 | 94.3 | 93.8 | 94.8 | 93.3 | 94.7 | 93.9 | 94.3 | 95.8 | 95.6 | 94.7 | -0.9 |
|  | 19-22 | 95.6 | 95.1 | 95.5 | 94.1 | 94.2 | 95.0 | 96.4 | 95.9 | 98.8 | 95.6 | 97.6 | 95.7 | 95.5 | 95.8 | 96.7 | 95.9 | 96.3 | 96.5 | +0.1 |
|  | 23-26 | 95.2 | 94.6 | 96.3 | 93.1 | 95.0 | 94.8 | 95.0 | 95.0 | 96.1 | 93.7 | 97.2 | 95.6 | 94.9 | 94.5 | 95.5 | 95.7 | 94.7 | 97.2 | +2.4 |
|  | 27-30 | 96.9 | 95.9 | 96.7 | 95.9 | 96.4 | 94.4 | 97.6 | 94.9 | 95.6 | 93.9 | 96.4 | 96.2 | 95.4 | 96.3 | 95.7 | 95.9 | 94.8 | 95.3 | +0.6 |
| Taking heroin occasionally ${ }^{\text {h }}$ | 18 | 95.4 | 96.1 | 95.7 | 96.0 | 95.4 | 95.6 | 95.9 | 96.4 | 96.3 | 96.2 | 96.8 | 95.3 | 96.9 | 96.2 | 96.3 | 97.0 | 96.9 | 96.6 | -0.3 |
|  | 19-22 | 97.8 | 98.2 | 97.2 | 98.0 | 97.9 | 97.9 | 98.3 | 98.9 | 99.4 | 98.2 | 98.8 | 97.3 | 97.9 | 97.5 | 97.7 | 97.4 | 98.0 | 97.8 | -0.2 |
|  | 23-26 | 97.4 | 97.5 | 98.5 | 98.2 | 97.8 | 97.5 | 97.2 | 98.5 | 98.3 | 97.7 | 98.8 | 98.3 | 98.5 | 97.1 | 99.0 | 99.0 | 98.1 | 98.1 | 0.0 |
|  | 27-30 | 98.7 | 97.6 | 98.8 | 98.6 | 98.4 | 98.6 | 98.7 | 98.1 | 97.7 | 97.1 | 98.1 | 98.2 | 98.6 | 99.3 | 98.1 | 97.9 | 97.7 | 97.3 | -0.4 |
| Taking heroin regularly ${ }^{\text {h }}$ | 18 | 96.4 | 96.6 | 96.4 | 96.6 | 96.2 | 96.2 | 97.1 | 97.1 | 96.7 | 96.9 | 97.1 | 95.9 | 97.4 | 96.4 | 96.7 | 97.4 | 97.4 | 97.1 | -0.3 |
|  | 19-22 | 98.1 | 98.3 | 98.2 | 98.5 | 98.2 | 98.3 | 98.8 | 99.0 | 99.2 | 98.9 | 99.1 | 98.3 | 98.1 | 97.6 | 97.9 | 98.3 | 98.4 | 97.9 | -0.5 |
|  | 23-26 | 97.6 | 98.5 | 98.7 | 98.8 | 98.4 | 98.3 | 98.6 | 98.9 | 98.9 | 98.0 | 99.0 | 99.1 | 99.2 | 97.6 | 99.3 | 99.1 | 98.3 | 98.9 | +0.6 |
|  | 27-30 | 98.4 | 98.1 | 98.8 | 98.7 | 98.7 | 98.4 | 99.3 | 98.8 | 99.1 | 97.5 | 98.2 | 98.4 | 99.0 | 99.3 | 98.6 | 98.3 | 97.9 | 97.6 | -0.3 |

[^70]TABLE 6-2 (cont.)
Trends in Proportions Disapproving of Drug Use among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

| Q. Do you disapprove of people (who are 18 or older) doing each of the following? | Age <br> Group | Percentage disapproving ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1980 | 1981 | 1982 | 1983 | 1984 | $\underline{1985}$ | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | $\underline{1995}$ | 1996 | $\longrightarrow$ |
| Trying amphetamines once or twice ${ }^{\mathrm{b}, \mathrm{h}}$ | 18 | 75.4 | 71.1 | 72.6 | 72.3 | 72.8 | 74.9 | 76.5 | 80.7 | 82.5 | 83.3 | 85.3 | 86.5 | 86.9 | 84.2 | 81.3 | 82.2 | 79.9 |  |
|  | 19-22 | 74.5 | 70.5 | 68.9 | 74.0 | 73.0 | 75.6 | 78.9 | 79.9 | 81.8 | 85.3 | 84.4 | 83.9 | 83.8 | 87.2 | 88.3 | 85.0 | 84.4 |  |
|  | 23-26 | - | - | - | - | 74.2 | 74.2 | 74.6 | 80.3 | 83.5 | 83.3 | 84.1 | 84.8 | 83.4 | 84.8 | 82.7 | 86.0 | 86.4 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 83.5 | 81.0 | 84.3 | 83.7 | 80.9 | 83.5 | 82.0 | 83.1 | 85.8 |  |
| Taking amphetamines regularly ${ }^{\text {b,h }}$ | 18 | 93.0 | 91.7 | 92.0 | 92.6 | 93.6 | 93.3 | 93.5 | 95.4 | 94.2 | 94.2 | 95.5 | 96.0 | 95.6 | 96.0 | 94.1 | 94.3 | 93.5 |  |
|  | 19-22 | 94.8 | 93.3 | 94.3 | 93.4 | 94.9 | 96.6 | 96.9 | 95.1 | 97.5 | 96.8 | 97.5 | 97.7 | 96.7 | 97.3 | 97.9 | 96.8 | 97.2 |  |
|  | 23-26 | - | - | - | - | 96.6 | 95.9 | 96.6 | 97.0 | 97.2 | 98.1 | 97.9 | 97.9 | 97.7 | 98.4 | 97.7 | 97.0 | 97.9 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 98.1 | 96.5 | 98.6 | 97.8 | 96.8 | 97.7 | 99.0 | 98.9 | 98.2 |  |
| Trying sedatives/ barbiturates once or twice ${ }^{\mathrm{c}, \mathrm{h}}$ | 18 | 83.9 | 82.4 | 84.4 | 83.1 | 84.1 | 84.9 | 86.8 | 89.6 | 89.4 | 89.3 | 90.5 | 90.6 | 90.3 | 89.7 | 87.5 | 87.3 | 84.9 |  |
|  | 19-22 | 83.5 | 82.3 | 83.8 | 85.1 | 85.2 | 86.1 | 88.3 | 87.5 | 90.1 | 92.0 | 91.1 | 90.4 | 88.8 | 90.7 | 91.1 | 90.5 | 89.1 |  |
|  | 23-26 | - | - | - | - | 84.0 | 84.5 | 84.4 | 89.8 | 90.7 | 89.4 | 88.8 | 87.9 | 88.8 | 88.5 | 88.0 | 89.3 | 88.3 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 90.5 | 88.3 | 88.4 | 88.8 | 86.6 | 88.9 | 87.6 | 88.0 | 89.4 |  |
| Taking sedatives/ barbiturates regularly ${ }^{c, h}$ | 18 | 95.4 | 94.2 | 94.4 | 95.1 | 95.1 | 95.5 | 94.9 | 96.4 | 95.3 | 95.3 | 96.4 | 97.1 | 96.5 | 97.0 | 96.1 | 95.2 | 94.8 |  |
|  | 19-22 | 96.6 | 95.6 | 97.3 | 96.5 | 96.6 | 98.1 | 98.0 | 97.0 | 97.9 | 97.7 | 98.7 | 98.0 | 97.9 | 98.2 | 98.7 | 97.7 | 97.9 |  |
|  | 23-26 | - | - | - | - | 98.4 | 98.5 | 97.7 | 98.6 | 98.3 | 98.3 | 98.5 | 98.5 | 98.6 | 98.5 | 98.5 | 97.4 | 98.4 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 98.4 | 97.1 | 99.1 | 98.5 | 97.7 | 98.4 | 99.1 | 99.0 | 98.5 |  |
| Trying one or two drinks of an alcoholic beverage (beer, wine, liquor) ${ }^{j}$ | 18 | 16.0 | 17.2 | 18.2 | 18.4 | 17.4 | 20.3 | 20.9 | 21.4 | 22.6 | 27.3 | 29.4 | 29.8 | 33.0 | 30.1 | 28.4 | 27.3 | 26.5 |  |
|  | 19-22 | 14.8 | 14.5 | 13.9 | 15.5 | 15.3 | 15.4 | 16.9 | 16.0 | 18.4 | 22.4 | 17.6 | 22.2 | 16.9 | 20.8 | 22.2 | 22.0 | 22.0 |  |
|  | 23-26 | - | - | - | - | 17.4 | 16.1 | 13.2 | 17.7 | 13.7 | 17.5 | 18.6 | 19.5 | 17.4 | 18.1 | 17.6 | 16.5 | 18.0 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 19.5 | 19.1 | 18.7 | 18.8 | 17.9 | 19.5 | 18.6 | 18.2 | 16.1 |  |
| Taking one or two drinks nearly every day ${ }^{j}$ | 18 | 69.0 | 69.1 | 69.9 | 68.9 | 72.9 | 70.9 | 72.8 | 74.2 | 75.0 | 76.5 | 77.9 | 76.5 | 75.9 | 77.8 | 73.1 | 73.3 | 70.8 |  |
|  | 19-22 | 67.8 | 69.7 | 71.3 | 73.3 | 74.3 | 71.3 | 77.4 | 75.3 | 76.5 | 80.0 | 79.7 | 77.1 | 76.0 | 75.0 | 78.0 | 74.7 | 73.5 |  |
|  | 23-26 | - | - | - | - | 71.4 | 73.7 | 71.6 | 72.7 | 74.6 | 74.4 | 77.6 | 76.9 | 75.5 | 74.2 | 73.3 | 69.7 | 70.6 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 76.0 | 73.9 | 73.3 | 76.1 | 69.5 | 73.5 | 72.4 | 71.8 | 71.4 |  |
| Taking four or five drinks nearly every day ${ }^{j}$ | 18 | 90.8 | 91.8 | 90.9 | 90.0 | 91.0 | 92.0 | 91.4 | 92.2 | 92.8 | 91.6 | 91.9 | 90.6 | 90.8 | 90.6 | 89.8 | 88.8 | 89.4 |  |
|  | 19-22 | 95.2 | 93.4 | 94.6 | 94.6 | 94.6 | 94.8 | 94.9 | 95.7 | 94.8 | 96.1 | 95.8 | 96.4 | 95.5 | 95.1 | 96.2 | 95.5 | 94.2 |  |
|  | 23-26 | - | - | - | - | 96.2 | 95.0 | 95.5 | 96.9 | 94.3 | 95.9 | 96.9 | 96.1 | 95.7 | 95.7 | 95.7 | 95.2 | 96.5 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 97.4 | 94.6 | 96.1 | 95.3 | 94.8 | 94.8 | 96.4 | 96.7 | 96.4 |  |
| Having five or more drinks once or twice each weekend ${ }^{j}$ | 18 | 55.6 | 55.5 | 58.8 | 56.6 | 59.6 | 60.4 | 62.4 | 62.0 | 65.3 | 66.5 | 68.9 | 67.4 | 70.7 | 70.1 | 65.1 | 66.7 | 64.7 |  |
|  | 19-22 | 57.1 | 56.1 | 58.2 | 61.0 | 59.7 | 59.4 | 60.3 | 61.6 | 64.1 | 66.3 | 67.1 | 62.4 | 65.6 | 63.5 | 68.1 | 66.0 | 69.2 |  |
|  | 23-26 | - | - | - | - | 66.2 | 68.3 | 66.5 | 67.5 | 65.2 | 63.2 | 66.9 | 64.6 | 69.6 | 66.8 | 66.9 | 65.3 | 70.9 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 73.9 | 71.4 | 73.1 | 72.1 | 68.4 | 73.4 | 73.5 | 73.7 | 72.4 |  |
| Smoking one or more packs of cigarettes per day ${ }^{j}$ | 18 | 70.8 | 69.9 | 69.4 | 70.8 | 73.0 | 72.3 | 75.4 | 74.3 | 73.1 | 72.4 | 72.8 | 71.4 | 73.5 | 70.6 | 69.8 | 68.2 | 67.2 |  |
|  | 19-22 | 68.7 | 68.1 | 66.3 | 71.6 | 69.0 | 70.5 | 71.4 | 72.7 | 73.8 | 75.6 | 73.7 | 73.2 | 72.6 | 72.8 | 75.3 | 69.8 | 72.2 |  |
|  | 23-26 | - | - | - | - | 69.9 | 68.7 | 67.5 | 69.7 | 66.4 | 71.1 | 71.5 | 77.2 | 73.6 | 72.9 | 70.3 | 72.2 | 73.0 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 72.8 | 69.4 | 73.5 | 71.2 | 70.7 | 73.8 | 72.3 | 73.9 | 72.7 |  |
| Approximate Weighted $N$ <br> Per Form $=$ | 18 | 3,261 | 3,610 | 3,651 | 3,341 | 3,254 | 3,265 | 3,113 | 3,302 | 3,311 | 2,799 | 2,566 | 2,547 | 2,645 | 2,723 | 2,588 | 2,603 | 2,399 |  |
|  | 19-22 | 588 | 573 | 605 | 579 | 586 | 551 | 605 | 587 | 560 | 567 | 569 | 533 | 530 | 489 | 474 | 465 | 480 |  |
|  | 23-26 |  |  |  |  | 542 | 535 | 560 | 532 | 538 | 516 | 524 | 495 | 538 | 514 | 475 | 466 | 449 |  |
|  | 27-30 |  |  |  |  |  |  |  |  | 526 | 509 | 513 | 485 | 512 | 462 | 442 | 450 | 430 |  |

(Table continued on next page.)

TABLE 6-2 (cont.)
Trends in Proportions Disapproving of Drug Use among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

|  |  | Percentage disapproving ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Q. Do you disapprove of people (who are 18 or older) doing each of the following? | Age <br> Group | 1997 | 1998 | 1999 | 2000 | $\underline{2001}$ | 2002 | $\underline{2003}$ | 2004 | 2005 | 2006 | 2007 | 2008 | $\underline{2009}$ | $\underline{2010}$ | 2011 | 2012 | $\underline{2013}$ | $\underline{2014}$ | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \end{gathered}$ |


| Trying | 18 | 81.3 | 82.5 | 81.9 | 82.1 | 82.3 | 83.8 | 85.8 | 84.1 | 86.1 | 86.3 | 87.3 | 87.2 | 88.2 | 88.1 | 84.1 | 83.9 | 84.9 | 83.1 | -1.8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| amphetamines | 19-22 | 83.3 | 84.6 | 84.9 | 83.8 | 82.1 | 81.4 | 86.3 | 82.1 | 88.2 | 84.9 | 84.8 | 86.7 | 85.4 | 86.9 | 80.5 | 81.3 | 83.7 | 73.6 | -10.0 ss |
| once or twice ${ }^{\text {b,h }}$ | 23-26 | 85.7 | 83.5 | 84.5 | 82.4 | 83.9 | 83.5 | 79.9 | 81.6 | 81.3 | 79.0 | 85.8 | 79.7 | 84.4 | 84.1 | 76.5 | 80.7 | 77.3 | 81.4 | +4.2 |
|  | 27-30 | 86.3 | 85.9 | 86.4 | 84.5 | 86.0 | 86.4 | 84.9 | 82.4 | 81.3 | 81.1 | 84.5 | 83.7 | 82.9 | 84.3 | 81.1 | 81.9 | 81.5 | 80.8 | -0.8 |
| Taking | 18 | 94.3 | 94.0 | 93.7 | 94.1 | 93.4 | 93.5 | 94.0 | 93.9 | 94.8 | 95.3 | 95.4 | 94.2 | 95.6 | 94.9 | 92.9 | 93.9 | 93.2 | 93.0 | -0.2 |
| amphetamines | 19-22 | 97.8 | 96.7 | 97.5 | 96.1 | 97.3 | 96.4 | 97.1 | 97.1 | 98.4 | 97.5 | 98.6 | 96.2 | 96.8 | 96.2 | 92.1 | 94.1 | 94.4 | 92.8 | -1.7 |
| $\text { regularly }{ }^{\mathrm{b}, \mathrm{~h}}$ | 23-26 | 97.0 | 98.0 | 97.0 | 97.6 | 96.8 | 96.3 | 97.2 | 95.9 | 98.3 | 96.2 | 97.6 | 97.3 | 98.1 | 96.8 | 94.8 | 95.9 | 94.6 | 92.4 | -2.2 |
|  | 27-30 | 98.1 | 97.7 | 98.2 | 98.5 | 97.6 | 97.4 | 98.1 | 98.0 | 97.6 | 96.4 | 98.4 | 97.2 | 98.1 | 98.0 | 97.5 | 95.8 | 96.8 | 96.3 | -0.6 |
| Trying sedatives/ barbiturates once or twice ${ }^{\mathrm{c}, \mathrm{h}}$ | 18 | 86.4 | 86.0 | 86.6 | 85.9 | 85.9 | 86.6 | 87.8 | 83.7 | 85.4 | 85.3 | 86.5 | 86.1 | 87.7 | 87.6 | 87.3 | 88.2 | 88.9 | 88.5 | -0.5 |
|  | 19-22 | 86.6 | 85.8 | 86.6 | 84.2 | 85.2 | 84.2 | 87.7 | 81.8 | 86.6 | 83.4 | 82.7 | 82.1 | 84.7 | 85.2 | 85.4 | 88.0 | 88.6 | 86.3 | -2.3 |
|  | 23-26 | 88.3 | 87.4 | 87.3 | 85.2 | 86.9 | 86.8 | 81.8 | 80.3 | 81.6 | 80.5 | 84.3 | 77.7 | 83.3 | 80.9 | 80.6 | 83.8 | 84.4 | 84.4 | 0.0 |
|  | 27-30 | 88.8 | 88.4 | 87.6 | 87.3 | 88.5 | 86.9 | 89.2 | 81.8 | 78.7 | 80.1 | 83.5 | 80.5 | 82.5 | 80.3 | 83.3 | 83.1 | 82.6 | 82.5 | -0.1 |


| Taking sedatives/ | 18 | 95.3 | 94.6 | 94.7 | 95.2 | 94.5 | 94.7 | 94.4 | 94.2 | 95.2 | 95.1 | 94.6 | 94.3 | 95.8 | 94.7 | 95.1 | 96.1 | 95.8 | 95.0 | -0.8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| barbiturates regularly ${ }^{\text {c,h }}$ | 19-22 | 97.7 | 97.7 | 97.3 | 97.4 | 96.9 | 97.8 | 98.5 | 96.6 | 98.3 | 98.1 | 98.3 | 96.7 | 96.7 | 96.3 | 96.7 | 96.4 | 96.5 | 97.8 | +1.3 |
|  | 23-26 | 97.4 | 98.5 | 97.6 | 97.4 | 97.0 | 97.1 | 97.1 | 96.1 | 98.0 | 96.3 | 97.8 | 96.7 | 98.4 | 95.7 | 98.1 | 97.3 | 97.2 | 96.6 | -0.6 |
|  | 27-30 | 97.9 | 97.7 | 98.5 | 98.1 | 98.4 | 97.2 | 98.4 | 98.1 | 96.5 | 95.6 | 97.4 | 97.4 | 98.4 | 98.6 | 97.0 | 97.7 | 97.1 | 97.4 | +0.3 |
| Trying one or two drinks of an alcoholic beverage (beer, wine, liquor) ${ }^{\mathrm{j}}$ | 18 | 26.1 | 24.5 | 24.6 | 25.2 | 26.6 | 26.3 | 27.2 | 26.0 | 26.4 | 29.0 | 31.0 | 29.8 | 30.6 | 30.7 | 28.7 | 25.4 | 27.3 | 29.2 | +1.9 |
|  | 19-22 | 18.3 | 21.5 | 18.3 | 18.4 | 16.3 | 18.3 | 20.1 | 20.7 | 22.3 | 17.8 | 17.3 | 20.5 | 19.1 | 23.7 | 21.6 | 21.4 | 19.6 | 17.9 | -1.7 |
|  | 23-26 | 15.8 | 18.6 | 19.1 | 19.9 | 15.9 | 18.1 | 13.0 | 16.3 | 13.5 | 14.7 | 14.9 | 12.5 | 16.0 | 15.4 | 10.9 | 14.1 | 13.5 | 14.2 | +0.7 |
|  | 27-30 | 17.4 | 15.2 | 15.9 | 14.8 | 15.9 | 18.4 | 15.4 | 18.8 | 16.1 | 15.0 | 14.2 | 11.9 | 11.5 | 13.3 | 11.8 | 14.7 | 13.2 | 11.7 | -1.5 |
| Taking one or two drinks nearly every day ${ }^{j}$ | 18 | 70.0 | 69.4 | 67.2 | 70.0 | 69.2 | 69.1 | 68.9 | 69.5 | 70.8 | 72.8 | 73.3 | 74.5 | 70.5 | 71.5 | 72.8 | 70.8 | 71.9 | 71.7 | -0.2 |
|  | 19-22 | 73.2 | 70.3 | 67.3 | 66.7 | 68.3 | 63.9 | 66.9 | 68.1 | 64.6 | 68.2 | 65.1 | 65.2 | 67.4 | 68.4 | 71.0 | 65.7 | 64.0 | 61.6 | -2.5 |
|  | 23-26 | 68.4 | 70.2 | 73.4 | 66.3 | 66.5 | 62.7 | 65.0 | 61.7 | 64.4 | 62.0 | 62.4 | 66.4 | 62.0 | 62.5 | 55.7 | 53.9 | 54.4 | 53.3 | -1.1 |
|  | 27-30 | 71.8 | 69.8 | 67.9 | 65.9 | 68.9 | 70.9 | 63.1 | 66.7 | 60.5 | 62.0 | 65.8 | 59.5 | 63.7 | 61.4 | 61.7 | 55.6 | 51.3 | 52.0 | +0.7 |
| Taking four or five drinks nearly every day ${ }^{\text { }}$ | 18 | 88.6 | 86.7 | 86.9 | 88.4 | 86.4 | 87.5 | 86.3 | 87.8 | 89.4 | 90.6 | 90.5 | 89.8 | 89.7 | 88.8 | 90.8 | 90.1 | 90.6 | 91.9 | +1.4 |
|  | 19-22 | 93.9 | 92.4 | 92.4 | 92.8 | 94.2 | 92.6 | 92.5 | 92.2 | 93.2 | 92.9 | 92.9 | 94.0 | 93.6 | 92.2 | 93.9 | 91.9 | 92.1 | 91.1 | -1.1 |
|  | 23-26 | 93.8 | 96.1 | 95.1 | 94.3 | 93.5 | 93.7 | 92.6 | 93.1 | 94.8 | 92.9 | 95.6 | 94.9 | 94.6 | 93.9 | 94.7 | 92.8 | 91.8 | 91.4 | -0.4 |
|  | 27-30 | 96.2 | 95.0 | 97.2 | 95.3 | 96.1 | 95.4 | 95.6 | 96.0 | 92.8 | 92.7 | 95.0 | 93.9 | 96.0 | 94.3 | 95.8 | 92.1 | 92.1 | 93.4 | +1.3 |
| Having five or more drinks once or twice each weekend ${ }^{j}$ | 18 | 65.0 | 63.8 | 62.7 | 65.2 | 62.9 | 64.7 | 64.2 | 65.7 | 66.5 | 68.5 | 68.8 | 68.9 | 67.6 | 68.8 | 70.0 | 70.1 | 71.6 | 72.6 | +1.0 |
|  | 19-22 | 66.5 | 63.2 | 63.5 | 65.1 | 58.3 | 57.5 | 61.9 | 59.4 | 60.1 | 59.3 | 59.1 | 63.4 | 62.3 | 62.7 | 65.4 | 64.7 | 66.3 | 64.7 | -1.6 |
|  | 23-26 | 66.6 | 69.5 | 68.1 | 66.2 | 66.0 | 61.2 | 65.5 | 60.9 | 64.5 | 59.7 | 62.4 | 63.0 | 59.5 | 61.7 | 55.9 | 63.0 | 63.3 | 62.0 | -1.4 |
|  | 27-30 | 73.0 | 71.1 | 73.1 | 73.1 | 73.0 | 70.9 | 71.5 | 73.8 | 67.5 | 67.3 | 71.5 | 66.4 | 65.8 | 67.5 | 64.9 | 63.3 | 65.0 | 64.1 | -0.8 |
| Smoking one or more packs of cigarettes per day ${ }^{j}$ | 18 | 67.1 | 68.8 | 69.5 | 70.1 | 71.6 | 73.6 | 74.8 | 76.2 | 79.8 | 81.5 | 80.7 | 80.5 | 81.8 | 81.0 | 83.0 | 83.7 | 82.6 | 85.0 | +2.4 |
|  | 19-22 | 74.3 | 72.3 | 70.1 | 73.1 | 73.2 | 73.4 | 73.4 | 74.8 | 81.5 | 77.2 | 81.0 | 80.4 | 81.8 | 82.9 | 83.8 | 79.5 | 81.0 | 80.6 | -0.3 |
|  | 23-26 | 71.7 | 73.9 | 73.8 | 72.7 | 77.3 | 74.8 | 75.7 | 76.2 | 74.8 | 74.1 | 76.2 | 77.9 | 77.3 | 77.9 | 80.3 | 78.2 | 77.8 | 80.0 | +2.3 |
|  | 27-30 | 74.3 | 71.7 | 71.0 | 78.6 | 75.2 | 78.8 | 76.2 | 77.6 | 77.3 | 73.9 | 81.1 | 74.5 | 80.9 | 79.6 | 79.5 | 79.1 | 79.9 | 79.9 | 0.0 |
| Approximate Weighted $N$ <br> Per Form = | 18 | 2,601 | 2,545 | 2,310 | 2,150 | 2,144 | 2,160 | 2,442 | 2,455 | 2,460 | 2,377 | 2,450 | 2,314 | 2,233 | 2,449 | 2,384 | 2,301 | 2,147 | 2,078 |  |
|  | 19-22 | 470 | 446 | 449 | 416 | 413 | 402 | 396 | 431 | 378 | 378 | 333 | 365 | 368 | 364 | 340 | 356 | 280 | 316 |  |
|  | 23-26 | 423 | 401 | 397 | 389 | 404 | 346 | 385 | 403 | 374 | 364 | 325 | 335 | 328 | 347 | 309 | 334 | 312 | 308 |  |
|  | 27-30 | 453 | 449 | 429 | 395 | 368 | 359 | 346 | 370 | 367 | 330 | 355 | 339 | 325 | 334 | 306 | 312 | 301 | 304 |  |

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

## Footnotes for Tables 6-1 through 6-2

Notes. Level of significance of difference between the two most recent years: $s=.05, s s=.01$, $s s s=.001$.
Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.
The illicit drugs not listed here show a daily prevalence of $0.2 \%$ or less in all years.
' *' indicates a prevalence rate of less than 0.05\%.
' - ' indicates data not available.
${ }^{\text {a }}$ Answer alternatives were: (1) No risk, (2) Slight risk, (3) Moderate risk, (4) Great risk, and (5) Can't say, drug unfamiliar.
${ }^{\mathrm{b}}$ In 2011 the list of examples was changed from upper, pep pills, bennies, and speed to uppers, speed, Adderall, Ritalin, etc. These changes likely explain the discontinuity in the 2011 results.
${ }^{\text {c }}$ In 2004 the question text was changed from barbiturates to sedatives/barbiturates and the list of examples was changed from downers, goofballs, reds,
yellows, etc. to just downers.
These changes likely explain the discontinuity in the 2003 and 2004 results.
${ }^{\mathrm{d}}$ For 12th graders only: In 2011 the question on perceived risk of using salvia once or twice appeared at the end of a questionnaire form. In 2012 the question was
moved to an earlier section of the same form. A question on perceived risk of using salvia occasionally was also added following the question on perceived risk of
trying salvia once or twice. These changes likely explain the discontinuity in the 2012 result.
${ }^{\mathrm{e}}$ Answer alternatives were: (1) Don't disapprove, (2) Disapprove, and (3) Strongly disapprove. Percentages are shown for categories (2) and (3) combined.
${ }^{\dagger}$ Age 18 data based on one questionnaire form for all years reported. For ages 19-30 only: Prior to 2012, data based on one questionnaire form. Data based on five questionnaire forms in 2012-2014.
${ }^{9}$ Age 18 data based on one questionnaire form for all years reported. For ages 19-30 only: Prior to 2012, data based on one questionnaire form. Data based on two questionnaire forms in 2012-2014.
${ }^{h}$ Data based on one questionnaire form.
${ }^{\text {i }}$ Age 18 data based on one questionnaire form for all years reported. For ages 19-30 only: Prior to 2012, data based on one questionnaire form. Data based on three questionnaire forms in 2012-2014.
${ }^{j}$ Age 18 data based on one questionnaire form for all years reported. For ages 19-30 only: Prior to 2012, data based on one questionnaire form. Data based on four questionnaire forms in 2012-2014.
${ }^{\text {k Age }} 18$ data based on one questionnaire form for all years reported. For ages 19-30 only: Prior to 2012, data based on one questionnaire form. Data based on two questionnaire forms in 2012-2013. Data based on one questionnaire form in 2014.
'Data based on two questionnaire forms for all years reported.

Trends in Harmfulness of MARIJUANA Use as Perceived by

## Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Trying Once or Twice


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

Trends in Harmfulness of MARIJUANA Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30 Occasional Use


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

Trends in Harmfulness of MARIJUANA Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Regular Use


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

FIGURE 6-4
Trends in Harmfulness of SYNTHETIC MARIJUANA Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Trying Once or Twice


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

FIGURE 6-5
Trends in Harmfulness of SYNTHETIC MARIJUANA Use as Perceived by Respondents in Modal Age Groups of 19-22, 23-26, and 27-30

Occasional Use


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

## FIGURE 6-6

Trends in Harmfulness of LSD Use as Perceived by
Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
Trying Once or Twice


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

Trends in Harmfulness of LSD Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Regular Use


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

Trends in Harmfulness of PCP Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Trying Once or Twice


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

Trends in Harmfulness of COCAINE Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Trying Once or Twice


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

FIGURE 6-10
Trends in Harmfulness of COCAINE Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Occasional Use


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

FIGURE 6-11
Trends in Harmfulness of COCAINE Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Regular Use


[^71]FIGURE 6-12
Trends in Harmfulness of CRACK COCAINE Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Trying Once or Twice


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

FIGURE 6-13
Trends in Harmfulness of CRACK COCAINE Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Occasional Use


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

FIGURE 6-14
Trends in Harmfulness of CRACK COCAINE Use as Perceived by
Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
Regular Use


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

FIGURE 6-15
Trends in Harmfulness of COCAINE POWDER Use as Perceived by
Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
Trying Once or Twice


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

FIGURE 6-16
Trends in Harmfulness of COCAINE POWDER Use as Perceived by
Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30 Occasional Use


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

FIGURE 6-17
Trends in Harmfulness of COCAINE POWDER Use as Perceived by
Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
Regular Use


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

## FIGURE 6-18

Trends in Harmfulness of ECSTASY (MDMA) Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Trying Once or Twice


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

FIGURE 6-20
Trends in Harmfulness of HEROIN Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Trying Once or Twice


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

FIGURE 6-21
Trends in Harmfulness of HEROIN Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Occasional Use


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

FIGURE 6-22
Trends in Harmfulness of HEROIN Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Regular Use


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

Trends in Harmfulness of AMPHETAMINE ${ }^{\text {a }}$ Use as Perceived by
Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
Trying Once or Twice


Source. The Monitoring the Future study, the University of Michigan.
${ }^{\text {a }}$ In 2011 the list of examples was changed from upper, pep pills, bennies, and speed to uppers, speed, Adderall, Ritalin, etc. These changes likely explain the discontinuity in the 2011 results.


Source. The Monitoring the Future study, the University of Michigan.
${ }^{\text {a }}$ In 2011 the list of examples was changed from upper, pep pills, bennies, and speed to uppers, speed, Adderall, Ritalin, etc. These changes likely explain the discontinuity in the 2011 results.

FIGURE 6-25
Trends in Harmfulness of CRYSTAL METHAMPHETAMINE (ICE) Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Trying Once or Twice


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

FIGURE 6-26
Trends in Harmfulness of SEDATIVE (BARBITURATE) ${ }^{\text {a }}$ Use as Perceived by
Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
Trying Once or Twice


Source. The Monitoring the Future study, the University of Michigan.
aln 2004 the question text was changed from barbiturates to sedatives/barbiturates and the list of examples was changed from downers, goofballs, reds, yellows, etc. to just downers.
These changes likely explain the discontinuity in the 2003 and 2004 results.

FIGURE 6-27
Trends in Harmfulness of SEDATIVE (BARBITURATE) ${ }^{\text {a }}$ Use as Perceived by
Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
Regular Use


Source. The Monitoring the Future study, the University of Michigan.
${ }^{\text {a }}$ In 2004 the question text was changed from barbiturates to sedatives/barbiturates and the list of examples was changed from downers, goofballs, reds, yellows, etc. to just downers.
These changes likely explain the discontinuity in the 2003 and 2004 results.

## FIGURE 6-28

Trends in Harmfulness of ALCOHOL Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Trying Once or Twice


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

FIGURE 6-29
Trends in Harmfulness of ALCOHOL Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Having One or Two Drinks per Day


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

## FIGURE 6-30

Trends in Harmfulness of ALCOHOL Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Having Four or Five Drinks per Day


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

FIGURE 6-31
Trends in Harmfulness of BINGE DRINKING as Perceived by
Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
Having Five or More Drinks Once or Twice Each Weekend


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

FIGURE 6-32
Trends in Harmfulness of TOBACCO Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Smoking One or More Packs of Cigarettes per Day


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

FIGURE 6-33
Trends in Harmfulness of SMOKELESS TOBACCO Use as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

Regular Use


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

## Chapter 7

## THE SOCIAL CONTEXT

The social contexts in which individuals place and otherwise find themselves can influence the likelihood of using drugs in a number of ways. The context can provide social modeling and social norms for either use or abstention from use. Through friends and friends' contacts it can also influence the availability of drugs and bring about an awareness of new drugs, including knowledge of their existence and potential for altering mood and consciousness. Since its inception, MTF has measured three important features of the social context: (1) peer groups' norms about drug use, (2) amount of direct exposure to drug use by friends and others, and (3) perceived availability of drugs. All three factors are measured by self-reports and are therefore measures of the perceived context, though evidence suggests that they bear a strong correlation with the actual context. We believe that these three factors exert important influences on substance use at both the individual (micro) and the aggregate (macro) level.

In Volume I, we examined these factors among secondary school students. In this chapter, we do the same for the young adult population ages 19 to 30, whose social contexts typically differ considerably from what they were in high school. Most high school graduates today enter college, many get civilian jobs, and some enter military service. These transitions almost always change the institutional contexts experienced by young adults (e.g., colleges, work organizations, military services, etc.) and therefore the circles of people to whom they are exposed and with whom they develop friendships. They also alter the potential consequences of drug use if it is discovered by authorities in the relevant institution; for example, consequences can be quite severe for those in military service, and we have shown that illicit drug use drops when young people enter the military. ${ }^{1}$

Each of the question sets discussed here are contained in only one of the six questionnaire forms, so the case counts are lower than those presented in most chapters in this volume. (Also, in comparison to the secondary school samples covered in Volume I, follow-up samples reported here are much smaller.) Therefore, the prevalence and trend estimates are more subject to random fluctuation.

In addition, we include consideration of norms, exposure, and availability where relevant among those age 35 and older. In such cases, the data are based on the one form that is used for all respondents at a particular age.

## PEER NORMS AMONG YOUNG ADULTS (AGES 18-30)

[^72]Table 7-1 provides current levels and trends in perceived friends' disapproval of drug use as reported by $12^{\text {th }}$ graders, 19 - to 22 -year-olds, 23- to 26 -year-olds, and 27 - to 30 -year-olds. (These are the same age groupings used in Chapter 6.) Trend data are available since 1980, 1984, and 1988, respectively, for these three 4 -year age groupings of young adults.

The results for perceived peer norms are generally quite consistent with those for personal disapproval in the aggregate. ${ }^{2}$ Exceptions are trying marijuana once or twice and smoking one or more packs of cigarettes per day, for which friends' attitudes are consistently reported as more disapproving than respondents' own attitudes (especially in the oldest age band), and heavy weekend drinking, for which friends' attitudes are seen as less disapproving than their own. The question set regarding friends’ disapproval employs a shorter list of drug-using behaviors but includes the same answer scale, stated in terms of strength of disapproval associated with different use levels of the various drugs, as do the questions on the respondent's own attitudes about those behaviors (discussed in Chapter 6). While peer disapproval and personal disapproval questions appear on different questionnaire forms and therefore have different sets of respondents, the forms are distributed randomly in respondents' senior year of high school and should leave no systematic sample differences.

## Perceptions of Close Friends' Attitudes (Ages 18 to 30)

Table 7-1 provides trends for each age band in the proportions of respondents indicating how their close friends would feel about the respondent engaging in various drug-using behaviors. For purposes of simplification, we begin by addressing results across the entire 19- to 30 -year age band (tabular data for the entire age band are not presented). Then we distinguish among the three young adult age bands: 19-22, 23-26, and 27-30, along with 18-year-olds. In 2010 questions about friends' disapproval were dropped from the young adult follow-up questionnaires for all drugs except marijuana, occasions of heavy drinking, and cigarettes. The dropped questions had shown a high degree of redundancy with respondents' reports of their own attitudes in the aggregate, and thus were deleted to make room for other items.

- Generally, the peer norms reported by young adults one to 12 years past high school have been quite similar to those reported by $12^{\text {th }}$ graders.
- With regard to marijuana, half of young adults (50\%) thought their close friends would disapprove of their trying it, while three fifths (60\%) thought their close friends would disapprove of occasional use, and about three fourths (78\%) thought close friends would disapprove of regular use. Clearly the norms differ as a function of level of marijuana use, but for all levels of use they tend to be restrictive for the majority of young adults.
- For each of the illicit drugs other than marijuana, 2009 was the last year in which results on peer norms were available. At that time, the great majority of young adults said that their close friends would disapprove of their even trying such drugs once or twice; $89 \%$ indicated this for cocaine, $87 \%$ for $\boldsymbol{L S D}$, and $87 \%$ for amphetamines. (We stopped

[^73]asking these questions beginning in 2010 to make space for new items on the survey and because the data that they provided on peer norms so closely tracked what their own attitudes were in the aggregate.)

- In 2009 nearly two thirds (63\%) of young adults said their close friends would disapprove if they were daily drinkers, and 9 out of 10 (91\%) thought friends would disapprove if they had four or five drinks nearly every day.
- Friends' disapproval of heavy drinking on weekends continues to be measured and is distinctly lower than disapproval of daily drinking. In 2014, $52 \%$ to $57 \%$ of any of the young adult age groups thought that their close friends would disapprove of their having five or more drinks once or twice each weekend. These levels of disapproval are lower than among 18-year-olds (66\%).
- Peer disapproval of cigarette smoking is high in all four age bands: In 2014, $84 \%$ of $12^{\text {th }}$ graders said their friends would disapprove of pack-a-day smoking, as did $89 \%$ to $91 \%$ of 19 - to 30-year-olds.


## Trends in Peer Norms (Ages 18 to 30)

Important changes in the social acceptability of drug-using behaviors among both $12^{\text {th }}$ graders' and young adults’ peers have occurred since MTF began (see Table 7-1).

- Among $12^{\text {th }}$ graders, the proportion saying their close friends would disapprove of their trying marijuana rose from $41 \%$ in 1979 to $73 \%$ in 1992—a period of substantial decline in use. Friends' disapproval also grew substantially stronger in all of the young adult age bands in the years for which data are available. For example, among 19- to 22-year-olds, the proportion thinking their close friends would disapprove if they even tried marijuana rose from $41 \%$ in 1981 to $65 \%$ in 1992 (Table 7-1). A similar peak in disapproval occurred for 23- to 26 -year-olds in 1992 and 1993, and among 27- to 30 -year-olds in 1994 and $1995-66 \%$ for both age bands. In all age groups, peer disapproval subsequently declined, though the declines were earliest and greatest among $12^{\text {th }}$ graders. The decline ended in 1997 for $12^{\text {th }}$ graders and began to reverse, but continued through 2002 among 19- to 26 -year-olds. There was little systematic change for several years among 19- to 26 -year-olds, but more recently-since about 2008-their friends’ disapproval declined appreciably for all three levels of marijuana use. In 2013 all young adult age groups showed a further decline in disapproval of marijuana use; indeed, the declines for the older two age bands were large and statistically significant. For example, the percent of 23 - to 26 -year-olds and 27 - to 30 -year-olds saying that their close friends would disapprove of their trying marijuana fell by about 9 percentage points in that one year, possibly reflecting both cohort effects and secular trends. At this point only about half of each age group say that their close friends would disapprove of their trying marijuana, down from between $57-62 \%$ as recently as 2008. Clearly peer norms among young adults, as well as teens, have become more accepting of marijuana use over the past few years. Disapproval rates leveled out in 2014, however, with no significant changes in peer disapproval between 2013 and 2014 in any of the four age strata.

Close friends’ disapproval of more frequent marijuana use also rose until the early 1990s among 18-year-olds, and then declined between 1992 and 1997. It declined through 1999 among 19- to 22 -year-olds and continued to decline among 23 - to 30 -year-olds through 2003. Recent peak years of friends' disapproval of trying marijuana were 2006 for $12^{\text {th }}$ graders, 2008 for 19 - to 26 -year-olds, and 2010 for 27 - to 30 -year-olds. In essence, peer norms have moved in a way consistent with the existence of some lasting cohort differences in these norms, as well as in use. A recent, more formal analysis of age, period, and cohort effects in disapproval came to the same conclusion. ${ }^{3}$ In 2013 there were continuing declines in friends’ disapproval of occasional and regular use among 23to 30 -year-olds, but in 2014 there were no further consistent changes.

- There was a more gradual increase in peer disapproval of trying an amphetamine for all age groups (18-30) through 1991, followed by a small decline evident among $12^{\text {th }}$ graders through 1997. Between 1997 and 2009-the last year we asked this question of young adults and for which data are available-levels of disapproval among 18- to 30-year-olds increased to some extent, though not dramatically. In 2009, disapproval levels for trying an amphetamine were at $87 \%$ for all four age groups.
- Perceived peer norms for LSD were measured from 1980 through 2009 among the follow-up respondents. Through 1991, peer disapproval of trying LSD showed very little change in any of the age bands, but it fell some in the 1990s, especially among 18-yearolds and subsequently among 19- to 22 -year-olds. These declines bottomed out in a staggered fashion, beginning with the $12^{\text {th }}$ graders in 1997, which thereafter showed a seven-percentage-point increase in peer disapproval. There was a five-percentage-point increase among 19- to 22 -year-olds (after 2000), and a three-percentage-point increase among 23- to 26-year-olds (after 2001)-again suggestive of a cohort effect in these norms. In 2009, the last year we asked, there was almost no difference among the age groups, with $85 \%$ to $87 \%$ of respondents in each age group saying their friends would disapprove of their trying LSD.
- Perceived peer norms regarding cocaine use were measured from 1986 through 2009, after which such questions were dropped. From 1986 to 1994, self-reported cocaine use declined substantially as peer norms in all age bands shifted toward disapproval. For example, by 1994, $95 \%$ of the 19 - to 22 -year-olds thought their close friends would disapprove of their trying cocaine once or twice. After 1994, peer norms against use continued to strengthen a bit in the upper age bands, perhaps through generational replacement, but weakened slightly in the younger age bands, likely reflecting a new cohort effect. By 2009 (the last year we asked) there was little difference by age in peer norms against cocaine use, with $85 \%$ to $91 \%$ saying their friends would disapprove of their even trying it. By way of contrast, in 1986 that statistic ranged between $71 \%$ and $80 \%$ among 18 - to 26 -year-olds.

[^74]- Peer norms against occasions of heavy drinking on weekends (five or more drinks once or twice each weekend) among the three young adult age groups have tended to be weakest for the 19 - to 22-year-old age group, in which such behavior is most common, and strongest for the 27- to 30 -year-old group. Since 2002, disapproval of such drinking has also been low for the 23- to 26 -year-old group relative to the other two age bands. Among $12^{\text {th }}$ graders, friends' attitudes had become somewhat more restrictive between 1981 and 1992 (and respondents' own occasions of heavy drinking declined during that interval), but attitudes were fairly level for some years (before rising from 56\% in 2002 to $66 \%$ by 2014). There was a similar upward trend in peer disapproval among the various young adult age bands that followed a staggered pattern, again likely reflecting a cohort effect in these norms. However, between 1997 and 2000 the 19- to 22-year-old age group became somewhat less disapproving of occasions of heavy drinking on weekends; this was followed by a decline in perceived peer disapproval between 2001 and 2004 among 23- to 26-year-olds, and a decline from 2004 to 2009 among 27- to 30-year-olds. Despite some increases in peer disapproval over the years, this rather extreme form of drinking has the least restrictive perceived peer norms of all of the substance-using behaviors measured in MTF, yet the majority still report peer disapproval. The subsequent increase in peer disapproval among $12^{\text {th }}$ graders was not mirrored among the older age strata; thus peer disapproval of binge drinking became highest among the $12^{\text {th }}$ graders, contrary to the situation in the late 1990s. In 2014 the proportions saying that their friends would disapprove of such heavy weekend drinking was between $52 \%$ and $57 \%$ for the three young adult age bands and $66 \%$ among the $12^{\text {th }}$ graders.
- Peer norms against cigarette smoking one or more packs per day have strengthened in staggered fashion among 18-year-olds and the young adult age groups in recent years. Between 1998 and 2008, the proportion saying that their close friends would disapprove of their smoking a pack or more of cigarettes per day rose from $69 \%$ to $83 \%$ among 18 -year-olds and from $69 \%$ to $86 \%$ among 19 - to 22 -year-olds. The two older strata did not see a comparable change until until peer disapproval among 23- to 26-year-olds rose from $77 \%$ in 2005 to $88 \%$ in 2009, at which time their disapproval leveled... The change did not manifest itself among the 27- to 30 -year-olds until 2010; their rates of peer disapproval of smoking, which for some years had the highest rates of disapproval for smoking among the four age groups, stayed fairly level after 2000, until there was a 4.4-percentage-point jump in 2010, followed by a leveling. This pattern again suggests some cohort effects in peer norms working their way up the age spectrum. In 2014, very large proportions across the age bands reported that their friends would disapprove of pack-aday smoking, ranging from $84 \%$ among 18 -year-olds to $91 \%$ among those $19-22$ years old.

In the early years of MTF, peer disapproval of smoking a pack or more of cigarettes per day rose among $12^{\text {th }}$ graders from $64 \%$ (1975) to $73 \%$ (1979). There was little further net change for 13 years through 1992, when friends’ disapproval stood at $76 \%$. Between 1992/1993 and 1997/1998, all age groups showed a decrease in perceived peer disapproval of smoking-consistent with a secular trend.

## ADULTS' EXPOSURE TO DRUG USE THROUGH FRIENDS AND OTHERS (AGES 18-55)

Exposure to drug use is important because it provides both the modeling of the behavior by peers (possibly including direct encouragement to use) and immediate access. Exposure is measured by two sets of questions, each appearing on a (different) single questionnaire form. The first set asks the respondent to estimate what proportion of his or her friends use each drug, while the second set asks, "During the LAST TWELVE MONTHS how often were you around people who were using each of the following to get high or for 'kicks'?" The same questions are asked of $12^{\text {th }}$ graders, and their results are included here for comparison purposes in Tables 7-2 and 7-3 and Figures 7-1 through 7-24. (Questions about direct exposure to drug use were not included in the questionnaires for 35 - to 55 -year-olds due to the space limitations imposed by the use of a single questionnaire form at each of these ages.) We continue to deal with four-year age bands for the friends' use measures in order to increase the reliability of the estimates. Ages 35, 40, 45, 50 , and 55 are included as one-year age bands, with both half-samples from each of those cohorts being surveyed at those modal ages. Starting with age 35, each year has a larger number of cases than single years at the earlier ages because all respondents in a cohort at later ages complete the relevant questionnaire form, compared with only one sixth of those at younger ages. At the end of each table in this chapter is a summary of the weighted number of cases upon which each annual estimate is based. (The actual numbers of cases are somewhat higher.)

## Exposure to Drug Use (Ages 18 to 55)

- Relatively high proportions of young adults in all of these age bands have at least some friends who use some illicit drug; that proportion varies considerably with age, with older respondents reporting that fewer friends use (Table 7-2). In 2014, illicit drug use by at least some friends was reported by $81 \%$ of $12^{\text {th }}$ graders, $74 \%$ of 27 - to 30 -year-olds, $55 \%$ of 35 -year-olds, $42 \%$ of 40 -year-olds, $41 \%$ of 45 -year-olds, $40 \%$ of 50 -year-olds, and $36 \%$ of 55 -year-olds. Clearly, the older the respondent, the less likely he or she is to report having friends who use any illicit drugs. The proportions who said that most or all of their friends use one or more of the illicit drugs were much lower: $25 \%$ for $12^{\text {th }}$ graders, falling to $21 \%$ of 19 - to 22 -year-olds, $15 \%$ of 23 - to 26 -year-olds, $8 \%$ of 27 - to 30 -year-olds, and between $0.9 \%$ and $5.1 \%$ for the $35-$, 40 -, 45 , 50 -, and 55 -year-oldsquite a dramatic difference across ages and one that is consistent with the large differences in their own self-reported current use.
- With regard to illicit drugs other than marijuana, taken as a whole, considerably fewer respondents reported that any of their friends use compared to what is true for marijuana use (see below): $44 \%$ for $12^{\text {th }}$ graders, $50 \%$ for 19 - to 22 -year-olds, $53 \%$ for 23 - to 26 -year-olds, $48 \%$ for 27 - to 30 -year-olds, and $19 \%-27 \%$ for 35 - to 55 -year-olds. The proportions who said that most or all of their friends use illicit drugs other than marijuana in 2014 were $5 \%, 6 \%, 5 \%$, and $1.6 \%$, respectively, for the four youngest age bands, with $0.9 \%$ or fewer of respondents in the oldest age groups (35-55) reporting such high proportions of their friends using illicit drugs other than marijuana. Thus, relatively low proportions of these older age groups appear to be deeply immersed in a drug culture involving illicit drugs beyond marijuana.
- With respect to individual illicit drugs, exposure among all of the age groups was greatest for marijuana, with the percentages saying they have any friends who use at $79 \%$ of the 18 -year-olds, $78 \%$ of the 19 - to 22 -year-olds, $75 \%$ of the 23 - to 26 -year-olds, $69 \%$ of 27 to 30 -year-olds, and so on down to $29 \%$ of 55 -year-olds reporting that at least some of their friends use the drug. The next-highest exposures were for amphetamines (25\% among $12^{\text {th }}$ graders, $33 \%$ among 19 - to 22 -year-olds, $32 \%$ among 23 - to 26 -year-olds, and $24 \%$ among 27 - to 30 -year-olds) and narcotics other than heroin ( $22 \%$ among $12^{\text {th }}$ graders, $21 \%$ among 19 - to 22 -year-olds, $29 \%$ among 23 - to 26 -year-olds, and $30 \%$ among 27- to 30 -year-olds) followed by cocaine, hallucinogens other than LSD, and ecstasy (MDMA). Because of the dramatic increase in its use during the 1990s and early 2000s, ecstasy surpassed a number of the more traditional drugs, though its use declined sharply in subsequent years. (It should be noted that use of several illicit drugs was not asked of the age groups above 30 due to space limitations in the single questionnaire form used at each of those ages. See Table 7-2.)
- For the remaining illicit drugs, the proportion of young adults reporting that some friends use a given drug was $10 \%$ or higher in at least one of the four young age strata for the following drugs: sedatives (barbiturates) (13-15\%), LSD (10-18\%), steroids (9-16\%), and tranquilizers (9-10\%). See Table 7-2 for specifics.
- For most illicit drugs, the proportion of young adults having any friends who use them decreases with each higher age band, consistent with the age differentials in self-reported use. The steepest declines occur with inhalants-in 2014, 9\% of 18-year-olds reported that some friends use versus only $5 \%$ of 27 - to 30 -year-olds. (Inhalant use is not asked of the age groups above 30, precisely because of this sharp decline in use with age.) As reported in Volume I, the decline with age in inhalant use is actually well under way by $10^{\text {th }}$ grade.
- For some years, cocaine showed significantly higher rates of active use among adults compared to $12^{\text {th }}$ graders. That is no longer true, although there is rather little drop-off with age in early adulthood; consequently, there is not a great difference associated with age in having friends who use cocaine (18-21\% for all four of the younger age groups). The $35-$-, 40 -, 45 -, 50 -, and 55 -year-olds are asked separately about cocaine powder and crack use; in 2014 far fewer reported having friends who use cocaine powder- $13 \%$ for age 35 and $3 \%$ to $7 \%$ for the four older groups.
- For crack, however, the story is different. Reported friends' use of crack now descends sharply with age, although this was not true in the mid-1980s, when measures of crack use were first included in the surveys. In 2014, $9 \%$ of $12^{\text {th }}$ graders reported having any friends using crack, versus $7 \%$ of 19 - to 22 -year-olds, $4 \%$ of 27 - to 30 -year-olds, and $1 \%$ to $4 \%$ of 35 - to 55 -year-olds.
- The proportion reporting in 2014 that they have any friends who take heroin also decreased sharply with age, from $8 \%$ among $12^{\text {th }}$ graders to $3 \%$ among 27 - to 30 -yearolds. (Older respondents are not asked this question.)
- At present, the percentage reporting any friends who use narcotics other than heroin showed some increase with age: $22 \%$ of 18 -year-olds, $21 \%$ of the 19 - to 22 -year-olds, $29 \%$ of the 23 - to 26 -year-olds, and $30 \%$ of 27 - to 30 -year-olds. This was not always the case. In the late 1990s and early 2000s friends' use increased with the age of respondents; but there was a sharp rise after 2008 in reported use by friends in all the age strata (due to a change in question wording) followed by a falloff in the two younger age strata, especially in 2014, reversing the age differences. (See Table 7-2.)
- In general, it appears that some respondents who report that their friends use illicit drugs are themselves not directly exposed to that use by their friends, judging by the differences in proportions saying they have some friends who use (Table 7-2) and the proportions who say they have been around people who were using during the prior year (Table 7-3 and Figure 7-1).
- With respect to alcohol use, the great majority of young adults have at least some friends who get drunk at least once a week, although this peaks in their early to mid-20s and then drops off gradually with age: $64 \%$ of $12^{\text {th }}$ graders, $78 \%$ of 19 - to 22 -year-olds , $86 \%$ of 23 - to 26 -year-olds, $77 \%$ of 27 - to 30 -year-olds, $65 \%$ of 35 -year-olds, $53 \%$ of 40 -yearolds, $52 \%$ of 45 -year-olds, $46 \%$ of 50 -year-olds, and $35 \%$ of 55 -year-olds. Given the potential serious consequences of this behavior, these rates are troublingly high across a wide age range. The proportions who say most or all of their friends get drunk once a week differ more substantially by age, with a peak in the respondents' early 20s. Nineteen percent of $12^{\text {th }}$ graders and $29 \%$ of 19 - to 22 -year-olds, declining to $20 \%$ of the 23 - to 26 -year olds, $15 \%$ of 27 - to 30 -year-olds, and $2 \%$ of 55 -year-olds responded that most or all of their friends get drunk once a week. Note in particular how high these rates are among the high school and college-age populations. In terms of having any direct exposure during the prior year to people who were drinking alcohol "to get high or for 'kicks" (tabular data not shown), having some such exposure is almost universal in the three 4 -year age groups of young adults: $90 \%$, $83 \%$, and $86 \%$, respectively, as well as among 18-year-olds (85\%) (see Table 7-3 and Figure 7-23).
- From ages 18 through 30, between two thirds and about four fifths of respondents (6684\%) have at least a few friends who smoke cigarettes, with considerable falloff by age 35 . In fact, $8 \%$ of the $12^{\text {th }}$ graders and $9 \%$ of 19 - to 22 -year-olds state that most or all of their friends smoke. Above those ages, the proportions decline to $8 \%$ of 27 - to 30 -yearolds and $2-6 \%$ for those 35 years of age and older. This increase in the segregation of smokers from nonsmokers likely reflects the stratification of young people after high school as a function of educational attainment, which is highly correlated with cigarette smoking. Also, it can be seen in Table 7-2 that there was much less age-related difference in the late 1980s, suggesting that the sharp rise in smoking among high school students during much of the 1990s, followed by a sharp decline in the years since, accentuated the age differentials and that those differentials remain, reflecting lasting cohort effects.


## Trends in Exposure to Drug Use (Ages 18 to 55)

Tables 7-2 and 7-3 also provide trend data on the proportions of respondents' friends using drugs and the proportion of respondents directly exposed to drug use by others. Both of these measures
of exposure to use will be discussed in this section. As noted previously, trends are available for 19 - to 22 -year-olds since 1980, for 23- to 26 -year-olds since 1984, and for 27 - to 30 -year-olds since 1988. Data for $35-, 40$-, $45-$, 50 -, and 55 -year-olds are available on friends' use since 1994 , 1998, 2003, 2008, and 2013, respectively. (Questions about frequency of being around drug users were not included in the questionnaires administered to respondents age 35 and older, so those age bands are not included in Table 7-3 or Figures 7-1 through 7-24. However, they were asked about the proportions of their friends using.) Twelfth-grade data have also been included in these tables for comparison purposes.

Figures 7-1 through 7-24 provide graphic presentation of trends in exposure to use.

- An examination of Table 7-3 and Figures 7-1 through 7-6 shows that exposure to illicit drug use (in the 12 months preceding the survey) declines at each higher age band for any illicit drug, marijuana, and any illicit drug other than marijuana, as well as for nearly all of the specific illicit drugs. In general, these differences replicate across different historical periods, with the exception of cocaine, which did not show a decline in exposure with increasing age until after 1996. (Prior to that it showed an increase with increasing age.) With the exception of cocaine, these declines reflect age effects (changes with age observed across multiple cohorts) in both exposure to use and in personal use of most drugs.
- Until 1992, young adults’ trends in exposure to use tended to parallel those observed for $12^{\text {th }}$ graders. From 1980 to 1992, that meant a decreasing number of respondents were exposed to any illicit drug use (Table 7-3 and Figure 7-1) or reported any such use in their own friendship circle (Table 7-2). After 1992, however, an important divergence in trends emerged: $12^{\text {th }}$ graders showed a substantial increase in both friends' use and exposure to use (as well as self-reported use); 19- to 22-year-olds showed a similar rise, but lagged by a few years; 23- to 26 -year-olds subsequently showed some rise; while the 27 - to 30 -year-old age band did not show a rise until 2002. As discussed in earlier chapters, this pattern no doubt reflects the emergence of lasting cohort differences that emerged in secondary school and, driven by generational replacement, continued up the age spectrum as the secondary school students grew older. The age differentials expanded in the 1990s during the relapse phase in the drug epidemic; first observed among the $12^{\text {th }}$ graders, the increases in use then occurred on a staggered basis. The age differentials have diminished considerably during the 2000s as use declined some among the younger age groups but rose among the older ones as the cohort effect worked its way up the age spectrum (see Figure 7-1).
- Marijuana showed a very similar pattern of change. It is particularly noteworthy that, while $34 \%$ of 19 - to 22 -year-olds in 1980 said most or all of their friends used marijuana, only $8 \%$ said the same in 1991 (see Table 7-2). Clearly, the number of friendship groupings in which marijuana use was widespread dropped dramatically over that earlier interval. This measure of friends’ use more than doubled to $19 \%$ by 1999 during the relapse phase in the larger epidemic, where it remained for a couple of years before falling to $12 \%$ by 2008 , then increasing to $18 \%$ by 2014. Self-reported use (Figure 5 -3a) and friends' use both increased significantly among 18-year-olds in 2008, which we interpreted as a turnaround in the marijuana situation. Since 2006, the other adult age
strata also have shown a considerable increase in the proportion reporting some friends using marijuana (Figure 7-5 and Table 7-2).
- The proportion of respondents reporting having any friends who use any illicit drugs other than marijuana began to decline after 1982 in the two younger age groups spanning 18-22 (for whom we had data at that time; see Figure 7-3). By 1991/1992 there had been a considerable drop in all four age groups (spanning 18-30). This drop appears to be due particularly to decreases in friends' use of cocaine and amphetamines, although there were decreases for sedatives (barbiturates) and tranquilizers as well. The levels then began to rise among the 18- to 22-year-olds in the early 1990s, while at the same time declining further for the 23- to 30-year-olds, reflecting cohort effects, opening up a large age-related difference in friends’ use in the 1990s and into the early 2000s. The 23 - to 26 -year-olds showed a later increase in friends' use and the 27 - to 30 -year-olds showed a still later increase. After 2001 there was some decline in reported friends' use in the two youngest age strata while friends' use continued to climb in the older two strata. The net effect was to narrow the age differences among the young adult strata considerably. More recently, the gap among the four age bands has narrowed for the proportions saying that they have any friends who use some illicit drug other than marijuana. Since 2004, there has been little change among 18- to 22 -year-olds while since 2008 there has been an increase among 23- to 26 -year-olds and until 2012, a fairly sharp increase among 27 - to 30 -year-olds. In 2014, the percentage saying they have any friends who use some illicit drug other than marijuana declined for those under 22, but increased among those ages 23-30. Among those ages 35 and older, considerably fewer report having any friends who use (between $19 \%$ and $21 \%$ ). See Table 7-2 for the specifics.
- Between 1986 and about 1992, all four age groups showed a considerable drop in the proportion of respondents with friends who used cocaine (Figure 7-11). (Self-reported use declined sharply in the same period.) After that decline, the rates of friends' use peaked in 1998 among 18-year-olds, in 2004 among 19- to 22-year-olds, and in 2006 among 23- to 30 -year-olds, suggesting another cohort effect. In 2007 friends’ use began a fair decline among 18-year-olds followed by a similar decline among 19- to 22-year-olds in 2009, a decline among 23- to 26-year-olds beginning in 2012, and a decline among 27to 30-year-olds in 2013. The story for crack has been fairly similar (Table 7-2).
- There were substantial increases between the early 1990s and about 2000 in the proportion of 18 -year-olds and 19- to 22-year-olds reporting that they have friends using narcotics other than heroin, and there were smaller increases among 23- to 30-year-olds, resulting in some considerable age-related differences. After 2002, the proportions of 18-year-olds and 19- to 22-year-olds declined some, while the 23- to 30 -year-olds continued to increase in a classic cohort-effect pattern of change, thus narrowing the age differences by 2009. There was a wording change in 2010 that served to increase the rates considerably for all age groups (Figure 7-15). Since then, all age bands have shown a decline in having any friends who use these narcotic drugs.
- The proportions saying that any of their friends use ecstasy (MDMA) increased sharply in all age groups between 1992 and 2002, though in a staggered fashion (Table 7-2).

Twelfth graders showed the first sharp increase beginning after 1992, 19- to 22-year-olds after 1994, 23- to 26 -year-olds after 1996 and 27- to 30 -year-olds after 1997. These sharp increases ended among $12^{\text {th }}$ graders in 2001 and among 19- to 30 -year-olds a year later. Since those peak levels, the proportions saying that they had any friends using ecstasy have generally declined, corresponding with a decline in self-reported use. In all four age groups, $18-24 \%$ now report that any of their friends use ecstasy. The staggered nature of past increases suggests a cohort effect at work, but the simultaneous decline strongly suggests a secular trend, likely due to the heavy media coverage of adverse consequences associated with ecstasy use during that period.

- For all four of the youngest age groups (spanning ages $18-30$ ), the proportions saying that they were often exposed to others drinking alcohol declined modestly between 1987 and 1992 (Figure 7-24). The next decade saw rather little change in the four youngest age bands. Since 2002, exposure among the 18-year-olds has declined considerably, followed by declines among the 19 - to 22 -year-olds and then the 23 - to 26 -year-olds, while still rising among 27- to 30 -year-olds, resulting in rather little differences among the age groups in recent years. This is again indicative of a cohort effect with staggered decreases radiating up the age spectrum as the cohorts age. One would predict a decline soon among the 27 - to 30 -year-olds, based on this analysis.
- The age groups above age 30 have consistently been much less likely to report that any of their friends get drunk at least once a week, compared with those ages 18 to 26 (Table 72). These proportions increased starting at different times: after 1998 among 35-yearolds, after 2004 among 40-year-olds, and after 2005 among 45-year-olds, suggesting somewhat stable cohort differences. The net effect has been to reduce the differences separating those in their 20s from those in later decades in terms of the proportion having any friends who get drunk at least once a week. The rates in 2014 for the four youngest age strata were very high-between $64 \%$ among $12^{\text {th }}$ graders and $86 \%$ among 23 - to 26 -year-olds. Among the older age band there has been some increase over the past decade or so in the proportion saying that any of their friends get drunk at least once a week. On the other hand, the proportions saying that most or all of their friends get drunk that often are considerably smaller and decline sharply with age.
- Among $12^{\text {th }}$ graders, the proportion who said most or all of their friends smoked cigarettes declined appreciably between 1975 and 1981, the same period in which selfreported use declined. After that, neither measure showed much change until about 1992. Thereafter, substantial increases in both measures occurred. By 1997, one third (34\%) of $12^{\text {th }}$ graders reported that most or all of their friends smoked cigarettes (up from $21 \%$ in 1992); since then, that statistic declined (along with self-reported use) to $14 \%$ in 2008 , and then further, reaching $8 \%$ in 2014. Among 19- to 22 -year-olds, a decline in friends' use occurred between 1980 (or possibly earlier) and 1985, followed by a leveling through 1994. The percentage saying most or all of their friends smoke increased from $22 \%$ in 1994 to $29 \%$ in 2000, before beginning to decline, reaching $9 \%$ in 2014. Among 23- to 26-year-olds, a downturn was evident between at least 1984 (the first year for which data are available) and 1988, and then reported friends' use leveled ( $11 \%$ in 2014). After 2002, some slight increases occurred, followed by a reversal from 2004 to 2012 These staggered changes, until about 1998, illustrate that cohort effects were moving up the age
spectrum. Since 1998 (or the earliest year available for the age bands above age 30), the proportion saying that any of their friends smoked cigarettes showed some decline among those above age 30 , but little or no change among 23- to 30 -year-olds (which contains some of the heavier smoking $12^{\text {th }}$ graders of the mid-1990s) until about 2006. All of the age strata show rates in 2014 that are somewhat below where they were in 2008, following a gradual decline in recent years. Nearly all of these changes in exposure to drug use parallel changes in self-reported use by these age groups. This pattern reinforces the validity of self-report data, because there would presumably be less motivation to distort answers about the proportion of an unnamed set of friends who use a drug than about one's own use. The systematic nature of the patterns of change across age strata (whether in terms of parallel changes consistent with a secular trend, or systematically staggered ones consistent with a cohort-related trend) is also supportive of the data validity.


## PERCEIVED AVAILABILITY OF DRUGS AMONG ADULTS (AGES 18-55)

Adults participating in the follow-up surveys receive questions identical to those asked of $12^{\text {th }}$ graders regarding how difficult they think it would be to get each of the various drugs if they wanted them. The questions are contained in only one of the six questionnaire forms used through modal age 30. Data for the young adult follow-up samples, which are grouped into the same four-year age bands used above (19-22, 23-26, 27-30), are presented in Table 7-4, along with data for $12^{\text {th }}$ graders and $35-, 40-, 45-$, 50 -, and 55 -year-olds. Sample sizes are presented at the bottom of the table. The availability question is not asked for all drugs in the adult samples, as may be seen in Table 7-4.

## Perceived Availability

Much like $12^{\text {th }}$ graders, substantial proportions of the American adult population have access to various illicit drugs. (We do not ask about access to alcohol and cigarettes because we assume these are readily available to all adults.)

- Marijuana was by far the most readily available of the illicit drugs in 2014 (and in all previous years) with $86-88 \%$ of the young adult age groups (19-30) saying it would be "fairly easy" or "very easy" to get if they wanted some. Perceived access decreased somewhat with age after age 30, but even at age 55, nearly three quarters of respondents (72\%) say they could get marijuana fairly or very easily.
- Though less available than marijuana, amphetamines were still fairly available, with 54$56 \%$ of young adults and $31-40 \%$ of those $35,40,45,50$, and 55 years old saying they would be easy to get.
- Cocaine was reported as readily available in 2014 by a significant proportion of young adults, with $34-42 \%$ saying it would be easy to get. Powdered cocaine availability was highest among those ages 23 and above. Crack was available to smaller proportions than powdered cocaine and again was most available to those ages 23 and above (26-35\%) in

2014. Interestingly, perceived availability for both forms of cocaine tended to rise with age between 19 to 22 years old and 27 to 30 years old.

- In 2014 about one fifth ( $20 \%$ to $21 \%$ ) of the youngest three age bands said that they could get heroin fairly or very easily, though far fewer report having used heroin. Reported availability was a bit higher for the 27- to 30 -year-olds (26\%). (The question is not asked of respondents above age 30.)
- More than half of all young adults (50-56\%) in 2014 said that they could get narcotics other than heroin fairly easily, as did $42 \%$ of $12^{\text {th }}$ graders. (The question is not asked of respondents above age 30.)
- Sedatives (barbiturates) were a bit less available than amphetamines to these age groups, with little variation across age up to age 30 (33-40\%). (The question is not asked of respondents above age 30.)
- Tranquilizers were reported as available in 2014 by considerably fewer respondents (17$21 \%$ ), which historically was not always the case. (The question is not asked of respondents above age 30.)
- Ecstasy (MDMA) was seen as readily available to $29-36 \%$ of young adults and $12^{\text {th }}$ graders in 2014. (The question is not asked of respondents above age 30.)
- Hallucinogens other than $\operatorname{LSD}$ were reported as available by $34 \%$ of $12^{\text {th }}$ graders and by slightly fewer (28-31\%) of the three young adult strata. (The question is not asked of respondents above age 30.)
- LSD was one of the least available drugs, declining by age group from $26 \%$ among $12^{\text {th }}$ graders to $18 \%$ among 55 -year-olds.
- Crystal methamphetamine (ice) was perceived to be available by between $14 \%$ and 22\% in 2014, with availability highest among 27- to 30 -year-olds. (The question is not asked of respondents above age 30.)
- Anabolic steroid were perceived to be readily available to between $22 \%$ and $26 \%$ of all four age strata (Table 7-4). (The question is not asked of respondents above age 30.)


## Trends in Perceived Availability

- Marijuana has been almost universally available to the adolescent and young adult age groups throughout the historical periods covered by the data. Overall, perceived availability has risen in the five older age groups on whom trend data are available during the 2000s-that is, from 27- through 50-year-olds-but has simultaneously declined among $12^{\text {th }}$ graders and 19 - to 23 -year-olds. The 23 - to 26 -year-olds have shown little change in the 2000s. As a result there is now less variability by age in availability of marijuana. From the peak year in 1979, perceived availability decreased slightly through 1991 among $12^{\text {th }}$ graders and decreased slightly more from 1980 through 1991 among 19-
to 22-year-olds. After the late 1990s, the trends in availability across the age bands had generally been quite parallel, suggesting secular trends in prevailing conditions that affected availability. Perceived availability is now somewhat higher for the younger age groups ( $81-86 \%$ for $12^{\text {th }}$ graders through 27 - to 30 -year-olds versus $72-84 \%$ for those ages 35 to 55).
- Historic highs in perceived availability of cocaine occurred in the 1980s among all three young adult age strata (ages 19-30), reaching highest proportions in 1988 and 1989, at which time the older young adult age strata had higher availability than the younger ages. (From a policy perspective, it is worth noting that in 1987 the perceived availability of cocaine increased while use actually dropped sharply.) In the early 1990s, all four groups reported decreased availability by 4-7 percentage points-quite parallel to the drop in numbers of those who had friends who were users and to the decline in personal use. Until about 2000, there was some falloff in perceived cocaine availability in all age strata through age 30-particularly among those ages 23 through 30-and an increasing convergence. Since about 2007 all four age strata have shown considerable declines in reported cocaine availability, and these declines continued into 2013 among the three younger adult strata. In 2014 two strata showed a bounce back in availability and the third showed no change. The 18-year-olds also showed a considerable decline from 2007 ( $47 \%$ said it would be fairly or very easy to get) to 2011 (31\%), followed by a leveling. (The question is not asked of respondents above age 30.)
- Crack availability peaked in 1988-1989 for all age groups (it was first assessed in 1987) and declined through 1992, with little further change until 1995. Since 1995, crack availability has declined substantially in all of the lower four age strata (ages 18-30). Data on 35-, 40-, 45-, and 50-year-olds are available for shorter intervals, but also show appreciable declines from initial measurements.
- In 2014, between $18 \%$ and $26 \%$ of each age group said they could get $\boldsymbol{L S D}$ fairly easily, which contrasts quite dramatically with the mid-1990s, when over $50 \%$ of those in the younger age strata said they could get it. Across the decades measured, the trends in LSD availability among young adults have had some parallels to those among $12^{\text {th }}$ graders. For $12^{\text {th }}$ graders, there was a drop of about 10 percentage points in the mid-1970s, and a later drop from 1980 to 1986. The latter drop, at least, was paralleled in the data from 19- to 22-year-olds. After 1986, LSD availability increased considerably in all age bands, reaching its peak levels by 1995 during the relapse phase of the illicit drug epidemic. At that time a considerable age-related difference developed, with availability lower in the older age groups. Since 1995, availability has fallen substantially in all age bands but particularly in the youngest two age bands, narrowing the differences among the age groups. Indeed, the drop-off in availability of LSD to $12^{\text {th }}$ graders and 19- to 22-year-olds was quite sharp in 2002, possibly contributing to the steep decline in use that year. In 2012 all age bands except the 18-year-olds showed some further decline in the availability of LSD, but there has been rather little systematic change in reported availability since then. Availability among 50-year-olds was the lowest in 2014 at $18 \%$. Fifty-five-year-olds are not asked the question.
- Since 2001 the general pattern regarding the availability of hallucinogens other than LSD has been one of stability. Levels of availability have been more differentiated by age than in prior decades, though these differences have diminished in recent years. (This question is not asked of respondents over age 30.) Generally, the lower the age group, the higher the reported availability, though there has been a considerable convergence. In the early 1980s, there was a fair decline among all age groups in the availability of hallucinogens other than LSD. There was little additional change through 1992. From 1992 to 1995, the three youngest age groups all showed an increase in availability, with $12^{\text {th }}$ graders showing the largest increase. From 1996 to 2000, availability was fairly steady. All age groups showed substantial increases in 2001, undoubtedly due to the changed question wording which added shrooms, among other substances to the examples of hallucinogens. (Shrooms refer to psilocybin mushrooms.) It appears that the inclusion of shrooms introduced a greater variability with age in the availability of hallucinogens other than LSD taken as a class. Availability was only slightly higher among the 18-year-olds (34\%) than among young adults (28\% to 32\%) in 2014.
- Ecstasy (MDMA) questions were first introduced in MTF surveys in 1989 and 1990 (and are not asked of those over age 30). Availability rose very substantially in all of these age groups during the 1990s and early 2000s. Among $12^{\text {th }}$ graders, reported availability nearly tripled from $22 \%$ in 1989 to $62 \%$ in 2001 -the peak year of use for $12^{\text {th }}$ graders. All four age groupings showed sharp increases in 2000 and 2001, with the older age groups continuing to increase through 2002-their peak year for use. The availability of ecstasy showed considerable declines among the two youngest strata after 2002 and among the 23 - to 30 -year-olds since about 2004. Reported availability of ecstasy varied little by age in 2014, ranging between $30 \%$ and $36 \%$ among 18 -year-olds and the three young adult strata covered.
- All age groups have shown some gradual, modest decline in heroin availability since about 1997 or 1998, during which interval there has been rather little variability in heroin availability across the 18 -to- 30 age range. (The question is not asked of respondents over age 30.) Heroin availability varied within a fairly narrow range from 1980 to 1985, then increased in all age groups through 1990. For the younger ages (18-22) heroin availability rose further through 1995 while in the older two age groups it increased some later in the 1990s. It is clear that heroin was much more available to all of these age groups in the 1990s than it was in the 1980s. This increase in the availability-and purity-of heroin most likely led to the emergence of non-injection forms of heroin use observed during this period. In recent years heroin availability has generally declined modestly among young adults and 18-year-olds, though two of the four age strata showed a some increase in perceived availability in 2014 specifically, while the other two showed declines--all not statistically significant.
- The availability of narcotics other than heroin rose slowly among all age groups from 1980 until recent years, with the exception of a period of considerable stability from 1989 through 1994. (Respondents over age 30 are not asked this question.) After 1994, the modest increase in availability was accompanied by steadily rising use. Recent years showed a very slight falloff in availability among all age strata except the 27 - to 30 -yearolds, who continued to show an increase through 2013, followed by a sharp and
significant 8.2 percentage point drop in 2014. Indeed, all four age strata showed substantial drops in the availability of narcotics in 2014, three of which were statistically significant. It seems clear that availability of these drugs is going down now, likely in response to state and federal efforts to reduce their abuse by reducing availability with state registries, etc. (Note that reported availability jumped in 2010, when new drugs, including Vicodin and OxyContin, were added to the list of examples in the question.) For the most part, there has not been a consistent difference by age in the availability of narcotics other than heroin among those ages 18 to 30 ; the predominant trend has been one of increasing availability over a long period of time in the 23- to 30-year-old segment. The addition of newer drugs, like OxyContin and Vicodin, to the list of examples resulted in some further increase, which suggests that availability climbed considerably more over the past decade or so than the data based on the original question had suggested. In general, the age groups above age 30 have reported somewhat lower availability of amphetamines than the younger strata, but not dramatically lower. Furthermore, those ages 19 to 26 have had the highest levels of availability in recent years, partly because availability among $12^{\text {th }}$ graders declined appreciably since 1998 , when they had the highest level of availability. These differential rates of reported availability across the age groups emerged after 1992, when prevalence of use began to rise among $12^{\text {th }}$ graders. In 1982, availability peaked for both $12^{\text {th }}$ graders and 19- to 22-year-olds, after which it fell through 1991 by 14-15 percentage points. Among 23- to 26-year-olds, there was a decline of 14 percentage points between 1984 (when data were first available) and 2005. For 27- to 30 -year-olds, reported availability decreased by nine percentage points between 1988 (the first measurement point) and 2005. Decreases also occurred among 35-year-olds in the 2000s but some reversal has been evident in recent years. In 2011 all age strata from age 18 through age 35 showed an increase in perceived availability for amphetamines, statistically significant for those ages 19-22 and 23-26 years old, followed by little systematic change since. It should be noted that the examples of amphetamines used in the question text were revised in 2011 to include Adderall and Ritalin, while pep pills and bennies were eliminated as examples. Therefore, the sharp rise in reported availability of amphetamines in 2011 among young adults may be nothing more than a method artifact resulting from the revision of the examples provided.
- By way of contrast, crystal methamphetamine or "ice" exhibited an increase in availability in the 1990s, rising for all four age strata from 1991 to 1998/1999 before stabilizing with similar rates of availability from ages 18 to 30 . (This question was not asked of those over 30.) All four strata have shown some decline in recent years, starting with the youngest three age strata after 2006 and the 27 - to 30 -year-olds after 2008. Availability is now lowest for the youngest three age bands-a reversal of the situation in the early 1990s—but the differences among the age groups have largely disappeared over the past two years (Table 7-4). .
- Sedatives (barbiturates) exhibited a long-term decline in availability over more than two decades from about 1981 or 1982 through 2003 in the two younger groups-a 20-percentage-point drop among $12^{\text {th }}$ graders and a 23-percentage-point drop among 19- to 22-year-olds. All groups showed increased availability in 2004-no doubt due primarily to a change in the question wording. There was a significant deline of 20 percentage points among 12th graders since2004, of 15 percentage points among the 19 - to 22-year-
olds since 2007, of 18 percentage points among 23- to 26-year-olds since 2006, and of 9 percentage points among 23- to 26 -year-olds since 2007. Availability is considerably higher in the 27 - to 30 -year-old group (40\%) than in the 18-year-old group (26\%).
- Tranquilizer availability has declined long-term by about four fifths among $12^{\text {th }}$ graders, from $72 \%$ in 1975 to $14 \%$ in 2014. Since 1980, when data were first collected for 19- to 22-year-olds, tranquilizer availability declined by more than three fourths (from 67\% in 1980 to $17 \%$ in 2014), such that previous differences in availability between these two groups were eliminated by 1992. The older young adult age groups have also shown a considerable decline in the availability of tranquilizers through 2014, considerably narrowing the differences among them. For the most part, trend lines for the different age groups have been quite parallel, as has been true for sedatives (barbiturates). Indeed, tranquilizers have shown the most consistent pattern of change in perceived availability since MTF began.
- Data on steroid availability were first gathered in 1990 (Table 7-4). There has been some decline in availability in all age groups since about 2000, including a sharper rate of decline in the youngest three age strata after 2007. (This question was not asked of those over 30.) While younger respondents used to report higher levels of availability than those in the older strata, by 2014 there was not much difference among them (from 22\% to $26 \%$ ). In fact, for two of the three young adult age groups, availability of anabolic steroids reached the lowest point in 2013 since data were first gathered (and it is at the second lowest level for the third group). Eighteen year olds reported the lowest level of perceived availability in 2014 due to a significant decrease of 6.6 percentage points that year, bringing them to $22 \%$.

TABLE 7-1

## Trends in Proportions of Respondents Reporting Their Close Friends Disapproving of Drug Use among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

|  |  | Percentage saying friends disapprove ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Q. How do you think your close friends feel (or would feel) about you. . | Age Group | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | $\xrightarrow[\substack{\text { (Years } \\ \text { Cont.) }}]{ }$ |
| Trying marijuana once | 18 | 42.6 | 46.4 | 50.3 | 52.0 | 54.1 | 54.7 | 56.7 | 58.0 | 62.9 | 63.7 | 70.3 | 69.7 | 73.1 | 66.6 | 62.7 | 58.1 | 55.8 |  |
| or twice | 19-22 | 41.0 | 40.6 | 46.9 | 47.1 | 51.6 | 54.5 | 55.2 | 54.7 | 58.7 | 63.0 | 63.6 | 64.7 | 64.7 | 63.4 | 63.7 | 58.5 | 64.3 |  |
|  | 23-26 | - | - | - | - | 47.7 | 47.0 | 49.1 | 53.9 | 58.2 | 62.6 | 61.3 | 64.5 | 65.6 | 65.5 | 63.2 | 63.8 | 61.2 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 58.6 | 58.7 | 61.4 | 64.6 | 63.5 | 64.4 | 66.3 | 66.1 | 65.8 |  |
| Smoking marijuana | 18 | 50.6 | 55.9 | 57.4 | 59.9 | 62.9 | 64.2 | 64.4 | 67.0 | 72.1 | 71.1 | 76.4 | 75.8 | 79.2 | 73.8 | 69.1 | 65.4 | 63.1 |  |
| occasionally | 19-22 | 50.9 | 49.2 | 54.0 | 57.9 | 59.4 | 64.6 | 64.4 | 65.1 | 69.8 | 71.5 | 74.1 | 73.9 | 74.3 | 73.1 | 73.0 | 66.6 | 71.3 |  |
|  | 23-26 | - | - | - | - | 54.3 | 56.4 | 57.1 | 63.1 | 68.1 | 73.2 | 71.8 | 72.5 | 75.3 | 73.5 | 72.2 | 70.7 | 70.8 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 67.8 | 69.4 | 71.9 | 73.7 | 76.0 | 75.1 | 76.4 | 73.8 | 75.6 |  |
| Smoking marijuana | 18 | 72.0 | 75.0 | 74.7 | 77.6 | 79.2 | 81.0 | 82.3 | 82.9 | 85.5 | 84.9 | 86.7 | 85.9 | 88.0 | 83.5 | 80.6 | 78.9 | 76.1 |  |
| regularly | 19-22 | 70.3 | 75.2 | 75.7 | 79.5 | 80.0 | 82.7 | 83.5 | 84.8 | 86.9 | 87.5 | 89.1 | 88.4 | 89.1 | 87.6 | 85.9 | 83.9 | 84.5 |  |
|  | 23-26 | - | - | - | - | 77.8 | 78.4 | 80.9 | 82.0 | 85.8 | 89.2 | 88.1 | 87.9 | 90.3 | 89.1 | 88.8 | 84.9 | 89.5 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 85.4 | 86.0 | 88.4 | 89.2 | 88.7 | 88.2 | 88.9 | 89.7 | 89.6 |  |
| Trying LSD once or | 18 | 87.4 | 86.5 | 87.8 | 87.8 | 87.6 | 88.6 | 89.0 | 87.9 | 89.5 | 88.4 | 87.9 | 87.9 | 87.3 | 83.5 | 83.4 | 82.6 | 80.8 |  |
| twice | 19-22 | 87.4 | 90.5 | 88.0 | 89.3 | 89.3 | 91.1 | 90.5 | 91.8 | 90.8 | 91.2 | 89.1 | 89.9 | 87.2 | 87.7 | 87.9 | 84.6 | 85.3 |  |
|  | 23-26 | - | - | - | - | 87.4 | 90.8 | 88.6 | 89.8 | 88.9 | 91.0 | 90.1 | 92.4 | 88.9 | 87.7 | 86.3 | 85.3 | 88.5 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 88.8 | 89.7 | 92.3 | 91.1 | 91.4 | 89.9 | 91.2 | 89.7 | 89.3 |  |
| Trying cocaine once or | 18 | - | - | - | - | - | - | 79.6 | 83.9 | 88.1 | 88.9 | 90.5 | 91.8 | 92.2 | 91.1 | 91.4 | 91.1 | 89.2 |  |
| twice | 19-22 | - | - | - | - | - | - | 76.4 | - | 84.8 | 87.7 | 89.2 | 92.3 | 91.9 | 92.4 | 94.7 | 91.7 | 91.5 |  |
|  | 23-26 | - | - | - | - | - | - | 70.8 | - | 81.4 | 84.5 | 84.1 | 86.7 | 87.4 | 87.7 | 87.9 | 90.4 | 90.0 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 81.8 | 81.1 | 83.7 | 83.5 | 84.4 | 86.1 | 87.8 | 87.5 | 88.7 |  |
| Taking cocaine | 18 | - | - | - | - | - | - | 87.3 | 89.7 | 92.1 | 92.1 | 94.2 | 94.7 | 94.4 | 93.7 | 93.9 | 93.8 | 92.5 |  |
| occasionally | 19-22 | - | - | - | - | - | - | 84.9 | - | 91.0 | 93.8 | 94.2 | 95.6 | 95.9 | 95.6 | 97.5 | 95.6 | 95.7 |  |
|  | 23-26 | - | - | - | - | - | - | 81.7 | - | 88.2 | 91.5 | 92.4 | 94.1 | 93.8 | 93.5 | 94.3 | 94.6 | 95.4 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 87.7 | 89.5 | 90.0 | 92.2 | 92.3 | 92.8 | 94.6 | 94.1 | 94.6 |  |
| Trying an amphetamine | 18 | 78.9 | 74.4 | 75.7 | 76.8 | 77.0 | 77.0 | 79.4 | 80.0 | 82.3 | 84.1 | 84.2 | 85.3 | 85.7 | 83.2 | 84.5 | 81.9 | 80.6 |  |
| once or twice | 19-22 | 75.8 | 76.7 | 75.3 | 74.3 | 77.0 | 79.7 | 81.5 | 81.3 | 83.0 | 83.5 | 84.5 | 86.5 | 83.8 | 85.0 | 87.2 | 83.1 | 86.0 |  |
|  | 23-26 | - | - | - | - | 78.4 | 79.1 | 76.7 | 81.7 | 83.0 | 85.6 | 84.3 | 85.0 | 83.6 | 84.2 | 84.7 | 87.6 | 86.5 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 82.7 | 84.1 | 84.9 | 84.6 | 84.7 | 84.1 | 85.9 | 85.5 | 85.6 |  |
| Taking one or two | 18 | 70.5 | 69.5 | 71.9 | 71.7 | 73.6 | 75.4 | 75.9 | 71.8 | 74.9 | 76.4 | 79.0 | 76.6 | 77.9 | 76.8 | 75.8 | 72.6 | 72.9 |  |
| drinks nearly | 19-22 | 71.9 | 72.1 | 68.6 | 73.5 | 71.6 | 72.2 | 72.7 | 70.2 | 73.9 | 77.1 | 73.3 | 73.7 | 74.0 | 71.2 | 73.0 | 68.3 | 68.9 |  |
| every day | 23-26 | - | - | - | - | 63.6 | 66.8 | 67.7 | 68.3 | 69.2 | 70.8 | 72.7 | 72.5 | 72.1 | 67.6 | 71.5 | 68.2 | 72.8 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 71.0 | 68.0 | 70.4 | 71.9 | 68.8 | 73.2 | 70.9 | 68.8 | 65.7 |  |
| Taking four or five | 18 | 87.9 | 86.4 | 86.6 | 86.0 | 86.1 | 88.2 | 87.4 | 85.6 | 87.1 | 87.2 | 88.2 | 86.4 | 87.4 | 87.2 | 85.2 | 84.1 | 82.6 |  |
| drinks nearly every | 19-22 | 93.7 | 91.7 | 89.9 | 91.9 | 91.7 | 92.5 | 91.5 | 90.8 | 90.4 | 92.5 | 89.9 | 91.7 | 92.6 | 89.6 | 90.1 | 88.8 | 88.1 |  |
| day | 23-26 | - | - | - | - | 90.8 | 90.2 | 92.5 | 92.8 | 93.7 | 92.1 | 92.1 | 92.4 | 91.1 | 93.1 | 92.1 | 92.2 | 92.6 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 92.8 | 92.0 | 92.9 | 92.7 | 92.7 | 93.9 | 94.0 | 92.9 | 91.9 |  |
| Having five or more | 18 | 50.6 | 50.3 | 51.2 | 50.6 | 51.3 | 55.9 | 54.9 | 52.4 | 54.0 | 56.4 | 59.0 | 58.1 | 60.8 | 58.5 | 59.1 | 58.0 | 57.8 |  |
| drinks once or twice | 19-22 | 53.5 | 51.7 | 51.7 | 53.3 | 50.8 | 53.3 | 47.0 | 49.4 | 50.5 | 56.8 | 53.1 | 51.4 | 53.6 | 51.9 | 54.4 | 55.5 | 52.1 |  |
| each weekend | 23-26 | - | - | - | - | 53.8 | 57.3 | 61.0 | 57.2 | 58.8 | 57.5 | 55.1 | 56.8 | 58.4 | 57.6 | 61.4 | 58.9 | 58.4 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 61.9 | 65.1 | 66.3 | 68.2 | 66.2 | 66.7 | 63.7 | 64.6 | 61.6 |  |
| Smoking one or more | 18 | 74.4 | 73.8 | 70.3 | 72.2 | 73.9 | 73.7 | 76.2 | 74.2 | 76.4 | 74.4 | 75.3 | 74.0 | 76.2 | 71.8 | 72.4 | 69.2 | 69.3 |  |
| packs of cigarettes | 19-22 | 75.6 | 75.1 | 75.4 | 78.5 | 76.2 | 79.7 | 77.7 | 78.6 | 80.2 | 78.4 | 77.5 | 78.3 | 79.0 | 76.0 | 73.8 | 70.9 | 73.9 |  |
|  | 23-26 | - | - | - | - | 73.9 | 77.3 | 80.3 | 80.5 | 79.5 | 80.5 | 78.5 | 83.3 | 82.3 | 77.4 | 80.1 | 78.8 | 78.3 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 81.2 | 80.9 | 82.9 | 84.5 | 83.1 | 86.8 | 82.5 | 83.4 | 81.9 |  |
| Approximate | 18 | 2,766 | 3,120 | 3,024 | 2,722 | 2,721 | 2,688 | 2,639 | 2,815 | 2,778 | 2,400 | 2,184 | 2,160 | 2,229 | 2,220 | 2,149 | 2,177 | 2,030 |  |
| Weighted $N=$ | 19-22 | 569 | 597 | 580 | 577 | 582 | 556 | 577 | 595 | 584 | 555 | 559 | 537 | 520 | 510 | 470 | 480 | 471 |  |
|  | 23-26 |  |  |  |  | 510 | 548 | 549 | 540 | 510 | 513 | 516 | 516 | 507 | 481 | 463 | 445 | 436 |  |
|  | 27-30 |  |  |  |  |  |  |  |  | 483 | 518 | 479 | 480 | 451 | 451 | 457 | 439 | 439 |  |

TABLE 7-1 (cont.)

## Trends in Proportions of Respondents Reporting Their Close Friends Disapproving of Drug Use among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

|  |  | Percentage saying friends disapprove ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Q. How do you think your close friends feel (or would feel) about you. . . | Age Group | 1997 | $\underline{1998}$ | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \end{gathered}$ |
| Trying marijuana once | 18 | 53.0 | 53.8 | 55.1 | 58.1 | 57.6 | 54.1 | 58.4 | 59.5 | 60.9 | 62.3 | 60.4 | 60.8 | 61.4 | 54.9 | 53.0 | 52.9 | 51.2 | 50.4 | -0.8 |
| or twice | 19-22 | 58.4 | 57.0 | 56.5 | 56.0 | 54.2 | 53.4 | 56.5 | 61.0 | 57.9 | 60.5 | 58.4 | 62.4 | 57.0 | 57.4 | 52.4 | 54.6 | 52.2 | 50.7 | -1.4 |
|  | 23-26 | 59.3 | 66.5 | 62.6 | 64.6 | 55.2 | 53.8 | 51.4 | 57.7 | 55.9 | 60.7 | 55.8 | 62.1 | 57.1 | 58.0 | 55.5 | 59.3 | 50.2 | 50.1 | -0.1 |
|  | 27-30 | 65.0 | 65.4 | 61.8 | 63.9 | 64.9 | 67.1 | 61.9 | 67.2 | 61.2 | 64.1 | 58.2 | 57.1 | 55.6 | 60.5 | 57.1 | 56.8 | 48.2 | 49.5 | +1.2 |
| Smoking marijuana | 18 | 59.9 | 60.4 | 61.6 | 63.9 | 64.3 | 60.3 | 64.2 | 65.0 | 67.6 | 68.1 | 65.8 | 66.3 | 68.5 | 61.8 | 59.4 | 59.5 | 57.6 | 56.2 | -1.4 |
| occasionally | 19-22 | 65.1 | 65.1 | 64.6 | 61.8 | 61.0 | 62.6 | 63.3 | 70.1 | 67.2 | 68.8 | 70.6 | 67.5 | 65.9 | 67.1 | 60.6 | 60.9 | 59.0 | 59.5 | +0.5 |
|  | 23-26 | 68.5 | 73.6 | 70.2 | 70.9 | 63.9 | 64.5 | 61.6 | 63.5 | 65.5 | 71.3 | 63.8 | 70.1 | 66.8 | 63.4 | 64.7 | 69.3 | 60.9 | 57.6 | -3.3 |
|  | 27-30 | 72.4 | 74.9 | 74.5 | 75.0 | 74.2 | 72.9 | 71.4 | 76.9 | 70.4 | 74.9 | 66.4 | 67.0 | 64.6 | 68.3 | 64.9 | 67.1 | 59.7 | 60.1 | +0.4 |
| Smoking marijuana | 18 | 74.1 | 74.7 | 74.5 | 76.1 | 77.8 | 75.3 | 77.0 | 77.3 | 79.5 | 79.8 | 78.3 | 78.0 | 79.1 | 73.8 | 73.3 | 72.7 | 71.2 | 70.1 | -1.2 |
| regularly | 19-22 | 83.3 | 81.1 | 78.2 | 78.5 | 80.0 | 80.5 | 79.1 | 84.4 | 82.2 | 84.1 | 83.7 | 81.4 | 81.9 | 81.1 | 76.3 | 74.5 | 75.2 | 77.1 | +1.9 |
|  | 23-26 | 85.6 | 87.1 | 86.8 | 86.9 | 83.7 | 82.8 | 80.0 | 79.2 | 82.7 | 83.7 | 81.9 | 87.1 | 81.9 | 83.5 | 82.7 | 83.8 | 77.7 | 76.7 | -1.0 |
|  | 27-30 | 87.8 | 90.8 | 89.2 | 91.6 | 90.1 | 87.9 | 87.2 | 88.0 | 87.7 | 88.2 | 84.3 | 84.5 | 83.4 | 87.5 | 83.4 | 86.1 | 80.8 | 81.5 | +0.6 |
| Trying LSD once or | 18 | 79.3 | 81.7 | 83.2 | 84.7 | 85.5 | 84.9 | 87.5 | 87.3 | 88.4 | 89.5 | 88.4 | 86.3 | 87.2 | 84.5 | 85.6 | 85.0 | 84.9 | 84.6 | -0.4 |
| twice ${ }^{\text {b }}$ | 19-22 | 83.6 | 81.7 | 82.0 | 82.1 | 85.2 | 86.9 | 86.9 | 88.6 | 90.5 | 90.4 | 90.0 | 90.0 | 87.1 | - | - | - | - | - | - |
|  | 23-26 | 85.4 | 87.6 | 84.5 | 85.3 | 82.8 | 83.6 | 79.3 | 82.4 | 85.6 | 89.3 | 90.4 | 88.4 | 88.3 | - | - | - | - | - | - |
|  | 27-30 | 88.5 | 88.7 | 88.4 | 85.6 | 87.4 | 86.3 | 87.1 | 87.7 | 86.9 | 88.5 | 83.5 | 85.3 | 84.6 | - | - | - | - | - | - |
| Trying cocaine once or | 18 | 87.3 | 88.8 | 88.7 | 90.2 | 89.3 | 89.1 | 91.2 | 87.9 | 89.0 | 88.7 | 89.6 | 88.7 | 90.2 | 89.7 | 89.7 | 89.2 | 89.2 | 88.6 | -0.6 |
| twice ${ }^{\text {b }}$ | 19-22 | 91.8 | 90.0 | 91.2 | 89.4 | 89.1 | 91.7 | 90.6 | 90.3 | 90.3 | 91.2 | 93.3 | 90.2 | 91.2 | - | - | - | - | - | - |
|  | 23-26 | 91.1 | 92.0 | 89.6 | 90.5 | 88.0 | 88.5 | 83.6 | 84.2 | 84.6 | 88.7 | 91.7 | 91.0 | 91.0 | - | - | - | - | - | - |
|  | 27-30 | 89.4 | 89.3 | 90.5 | 90.4 | 89.3 | 88.8 | 89.9 | 91.8 | 89.5 | 92.0 | 86.4 | 88.0 | 84.5 | - | - | - | - | - | - |
| Taking cocaine | 18 | 90.8 | 92.2 | 91.8 | 92.8 | 92.2 | 92.2 | 93.0 | 91.0 | 92.3 | 92.4 | 93.1 | 92.0 | 92.7 | 91.8 | 92.9 | 92.8 | 92.5 | 91.4 | -1.1 |
| occasionally ${ }^{\text {b }}$ | 19-22 | 96.6 | 93.1 | 95.7 | 94.7 | 94.5 | 95.6 | 95.1 | 96.0 | 95.3 | 96.1 | 97.1 | 95.5 | 95.6 | - | - | - | - | - | - |
|  | 23-26 | 95.1 | 95.2 | 95.2 | 96.7 | 94.7 | 93.2 | 91.2 | 90.1 | 93.0 | 94.9 | 95.9 | 96.6 | 95.6 | - | - | - | - | - | - |
|  | 27-30 | 94.2 | 96.1 | 95.4 | 95.9 | 94.2 | 94.0 | 95.1 | 96.3 | 94.5 | 95.4 | 93.2 | 94.3 | 94.3 | - | - | - | - | - | - |
| Trying an amphetamine | 18 | 80.4 | 82.6 | 83.0 | 84.1 | 83.8 | 83.3 | 85.9 | 84.7 | 86.1 | 86.7 | 87.3 | 87.1 | 87.0 | 85.8 | 84.6 | 83.7 | 83.5 | 83.2 | -0.3 |
| once or twice ${ }^{\text {b }}$ | 19-22 | 84.5 | 84.0 | 85.8 | 81.6 | 84.5 | 87.6 | 87.6 | 89.4 | 88.9 | 89.4 | 89.1 | 90.2 | 87.4 | - | - | - | - | - | - |
|  | 23-26 | 83.3 | 87.0 | 85.9 | 85.1 | 83.1 | 83.9 | 81.5 | 82.7 | 86.2 | 89.9 | 89.3 | 89.6 | 87.2 | - | - | - | - | - | - |
|  | 27-30 | 85.9 | 85.8 | 87.2 | 87.8 | 86.4 | 86.0 | 87.9 | 88.9 | 87.5 | 88.5 | 82.9 | 85.3 | 85.6 | - | - | - | - | - | - |
| Taking one or two | 18 | 71.5 | 72.3 | 71.7 | 71.6 | 73.4 | 71.6 | 74.7 | 72.8 | 74.0 | 73.2 | 74.5 | 75.2 | 75.5 | 75.0 | 74.9 | 74.0 | 75.4 | 74.0 | -1.3 |
| drinks nearly | 19-22 | 73.5 | 67.3 | 68.6 | 66.6 | 64.9 | 68.5 | 64.4 | 72.4 | 68.3 | 68.7 | 68.4 | 69.5 | 68.8 | - | - | - | - | - | - |
| every day ${ }^{\text {b }}$ | 23-26 | 68.1 | 66.9 | 66.1 | 65.4 | 64.4 | 61.6 | 62.1 | 61.8 | 62.3 | 66.1 | 62.5 | 63.4 | 59.4 | - | - | - | - | - | - |
|  | 27-30 | 67.3 | 66.7 | 64.3 | 67.3 | 67.1 | 64.0 | 64.5 | 65.0 | 62.8 | 64.9 | 59.4 | 58.9 | 59.8 | - | - | - | - | - | - |
| Taking four or five | 18 | 82.5 | 82.8 | 82.2 | 82.8 | 84.4 | 80.1 | 83.1 | 82.9 | 82.7 | 83.3 | 84.8 | 84.7 | 84.6 | 83.4 | 85.8 | 84.1 | 85.8 | 83.8 | -2.0 |
| drinks nearly every | 19-22 | 90.0 | 85.9 | 87.9 | 86.6 | 84.6 | 87.7 | 86.8 | 89.8 | 86.8 | 89.0 | 90.7 | 88.8 | 89.9 | - | - | - | - | - | - |
| $\text { day }{ }^{b}$ | 23-26 | 90.7 | 93.7 | 89.9 | 92.5 | 91.1 | 88.1 | 89.3 | 87.8 | 89.1 | 90.8 | 87.8 | 93.8 | 89.1 | - | - | - | - | - | - |
|  | 27-30 | 93.8 | 92.1 | 95.3 | 92.4 | 91.2 | 92.7 | 92.6 | 92.5 | 93.4 | 92.3 | 91.3 | 89.0 | 93.1 | - | - | - | - | - | - |
| Having five or more | 18 | 56.4 | 55.5 | 57.6 | 57.7 | 57.8 | 55.6 | 60.3 | 59.4 | 59.9 | 60.6 | 60.0 | 62.1 | 63.5 | 62.0 | 62.2 | 62.3 | 65.2 | 65.6 | +0.3 |
| drinks once or twice | 19-22 | 56.4 | 52.8 | 51.8 | 45.2 | 47.4 | 50.4 | 47.9 | 52.4 | 53.2 | 54.8 | 54.4 | 55.2 | 54.6 | 47.7 | 48.7 | 53.9 | 53.0 | 54.5 | +1.6 |
| each weekend | 23-26 | 55.6 | 60.0 | 54.5 | 56.6 | 56.9 | 52.9 | 49.5 | 49.5 | 51.9 | 56.0 | 51.3 | 55.3 | 51.0 | 51.2 | 50.7 | 53.4 | 48.5 | 52.3 | +3.9 |
|  | 27-30 | 64.0 | 63.0 | 57.7 | 65.8 | 58.8 | 63.3 | 59.6 | 64.6 | 56.9 | 62.7 | 56.3 | 57.3 | 52.7 | 52.9 | 50.6 | 53.7 | 52.7 | 57.1 | +4.5 |
| Smoking one or more | 18 | 68.5 | 69.0 | 71.2 | 72.6 | 74.5 | 75.7 | 79.2 | 78.6 | 81.1 | 81.2 | 81.4 | 82.5 | 81.6 | 81.4 | 81.6 | 83.2 | 84.4 | 84.0 | -0.4 |
| packs of cigarettes | 19-22 | 76.5 | 69.2 | 73.9 | 71.1 | 74.3 | 77.3 | 78.3 | 82.1 | 82.7 | 84.8 | 87.0 | 85.5 | 86.8 | 85.7 | 84.8 | 89.2 | 87.9 | 90.9 | +3.0 |
| per day | 23-26 | 75.8 | 76.5 | 78.0 | 79.9 | 77.0 | 75.4 | 78.3 | 77.6 | 77.4 | 84.4 | 82.6 | 88.2 | 88.1 | 88.0 | 88.2 | 90.6 | 85.5 | 89.6 | +4.1 |
|  | 27-30 | 80.5 | 81.9 | 82.6 | 84.0 | 83.6 | 86.1 | 84.0 | 84.6 | 82.2 | 84.1 | 81.3 | 83.9 | 85.0 | 89.5 | 88.4 | 88.1 | 90.0 | 89.4 | -0.6 |
| Approximate | 18 | 2,095 | 2,037 | 1,945 | 1,775 | 1,862 | 1,820 | 2,133 | 2,208 | 2,183 | 2,183 | 2,161 | 2,090 | 2,033 | 2,101 | 2,132 | 2,126 | 1,916 | 1,863 |  |
| Weighted $N=$ | 19-22 | 466 | 436 | 430 | 379 | 402 | 361 | 399 | 427 | 395 | 395 | 361 | 370 | 389 | 347 | 364 | 337 | 309 | 289 |  |
|  | 23-26 | 419 | 425 | 394 | 398 | 378 | 366 | 363 | 377 | 361 | 344 | 349 | 336 | 322 | 355 | 320 | 329 | 327 | 284 |  |
|  | 27-30 | 422 | 440 | 397 | 394 | 374 | 364 | 346 | 408 | 362 | 327 | 330 | 318 | 333 | 322 | 321 | 285 | 303 | 288 |  |

[^75]TABLE 7-2
Trends in Friends' Use of Drugs as Estimated by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

| Q. How many of your friends would you estimate... | Age Group | Percentage saying friends use ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | (Years Cont.) |
| Take any illicit drug ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 87.5 | 85.4 | 86.3 | 82.6 | 81.0 | 82.4 | 82.2 | 81.7 | 79.1 | 76.9 | 71.0 | 69.1 | 67.3 | 71.0 | 78.3 | 78.6 | 80.6 |  |
|  | 19-22 | 90.2 | 88.0 | 86.8 | 85.0 | 82.3 | 82.9 | 80.5 | 76.7 | 77.2 | 78.4 | 72.7 | 71.5 | 66.8 | 71.7 | 71.6 | 71.6 | 76.2 |  |
|  | 23-26 | - | - | - | - | 83.6 | 82.7 | 80.3 | 80.9 | 74.4 | 73.8 | 65.8 | 63.0 | 67.3 | 64.6 | 66.7 | 65.3 | 64.6 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 74.8 | 72.9 | 69.6 | 67.1 | 61.5 | 60.2 | 57.1 | 58.5 | 59.1 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 38.1 | 37.4 | 39.7 |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| \% saying most or all | 18 | 32.5 | 29.8 | 26.5 | 23.8 | 20.9 | 22.7 | 21.5 | 18.6 | 15.8 | 15.7 | 11.6 | 11.7 | 12.0 | 15.5 | 20.3 | 21.7 | 23.8 |  |
|  | 19-22 | 34.9 | 32.8 | 28.1 | 22.4 | 21.9 | 18.2 | 16.2 | 14.0 | 13.5 | 10.9 | 10.5 | 8.8 | 9.0 | 10.4 | 14.9 | 13.1 | 17.3 |  |
|  | 23-26 | - | - | - | - | 19.6 | 15.4 | 16.2 | 11.7 | 9.5 | 9.7 | 9.5 | 7.4 | 6.2 | 6.4 | 8.7 | 7.6 | 8.8 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 8.6 | 6.4 | 5.9 | 2.9 | 5.8 | 5.0 | 5.6 | 6.1 | 3.6 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.1 | 1.9 | 2.0 |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |


| Take any illicit drug other than marijuana ${ }^{b}$ | 18 | 62.4 | 63.3 | 64.7 | 61.2 | 61.3 | 61.8 | 63.3 | 62.4 | 56.5 | 56.2 | 50.1 | 46.3 | 47.1 | 48.7 | 53.7 | 53.7 | 54.5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \% saying any | 19-22 | 67.9 | 67.8 | 66.7 | 65.2 | 60.8 | 62.1 | 61.0 | 57.3 | 53.5 | 60.8 | 53.4 | 51.5 | 45.3 | 51.4 | 46.3 | 46.4 | 46.5 |
|  | 23-26 | - | - | - | - | 63.7 | 64.0 | 59.0 | 61.1 | 55.1 | 54.2 | 47.8 | 41.8 | 46.1 | 42.3 | 39.4 | 40.3 | 32.8 |
|  | 27-30 | - | - | - | - | - | - | - | - | 55.9 | 55.0 | 49.7 | 47.2 | 37.7 | 38.5 | 33.9 | 37.7 | 36.4 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 21.4 | 21.6 | 22.1 |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| \% saying most or all | 18 | 11.1 | 11.9 | 10.9 | 11.0 | 10.3 | 10.4 | 10.3 | 9.2 | 6.9 | 7.7 | 5.1 | 4.6 | 5.3 | 7.1 | 7.1 | 7.7 | 8.9 |
|  | 19-22 | 9.8 | 12.9 | 11.8 | 9.8 | 9.3 | 8.6 | 7.6 | 5.0 | 5.3 | 4.0 | 3.2 | 2.6 | 3.3 | 4.0 | 4.4 | 3.5 | 6.2 |
|  | 23-26 | - | - | - | - | 10.6 | 6.6 | 8.6 | 5.2 | 3.9 | 4.2 | 3.4 | 1.6 | 1.8 | 2.8 | 2.5 | 1.9 | 1.9 |
|  | 27-30 | - | - | - | - | - | - | - | - | 4.6 | 3.0 | 2.8 | 1.0 | 1.4 | 1.5 | 1.5 | 1.5 | 0.9 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.8 | 0.5 | 0.7 |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Smoke marijuana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 86.4 | 83.0 | 84.4 | 80.3 | 77.7 | 79.5 | 79.2 | 78.4 | 75.3 | 72.5 | 68.3 | 65.8 | 63.1 | 67.4 | 75.6 | 76.1 | 78.0 |
|  | 19-22 | 88.8 | 86.4 | 85.2 | 83.8 | 81.6 | 81.1 | 78.5 | 75.3 | 75.1 | 73.8 | 67.6 | 68.0 | 63.5 | 67.6 | 67.4 | 68.8 | 74.9 |
|  | 23-26 | - | - | - | - | 82.0 | 80.8 | 77.7 | 79.4 | 71.6 | 69.8 | 61.8 | 59.6 | 61.3 | 61.2 | 62.6 | 63.2 | 62.6 |
|  | 27-30 | - | - | - | - | - | - | - | - | 71.8 | 68.2 | 65.1 | 62.6 | 58.0 | 57.4 | 52.3 | 55.7 | 55.1 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 36.9 | 36.3 | 36.3 |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying most or all | 18 | 31.3 | 27.7 | 23.8 | 21.7 | 18.3 | 19.8 | 18.2 | 15.8 | 13.6 | 13.4 | 10.1 | 10.0 | 10.3 | 13.9 | 18.9 | 20.7 | 22.2 |
|  | 19-22 | 34.1 | 30.6 | 25.6 | 20.6 | 19.4 | 16.0 | 13.3 | 12.5 | 12.2 | 9.0 | 9.2 | 8.3 | 8.2 | 8.5 | 13.0 | 12.5 | 16.3 |
|  | 23-26 | - | - | - | - | 17.0 | 14.3 | 13.7 | 10.4 | 7.8 | 8.6 | 8.3 | 6.9 | 5.6 | 5.6 | 7.5 | 6.6 | 8.2 |
|  | 27-30 | - | - | - | - | - | - | - | - | 6.8 | 4.4 | 4.0 | 2.8 | 5.1 | 5.2 | 5.0 | 5.6 | 3.5 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.0 | 2.5 | 2.9 |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

TABLE 7-2 (cont.)
Trends in Friends' Use of Drugs as Estimated by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

|  | Age <br> Group | Percentage saying friends use ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Q. How many of your friends would you estimate. |  | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ |  |
| Take any illicit drug ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 83.4 | 84.6 | 82.0 | 82.0 | 82.8 | 81.8 | 80.7 | 81.2 | 79.8 | 78.8 | 77.7 | 80.1 | 79.2 | 80.4 | 81.7 | 78.9 | 80.8 | 80.8 | 0.0 |
|  | 19-22 | 77.2 | 79.8 | 77.3 | 83.1 | 81.1 | 78.3 | 79.4 | 78.1 | 78.6 | 74.7 | 79.8 | 77.4 | 80.3 | 78.6 | 78.1 | 78.8 | 78.3 | 79.4 | +1.1 |
|  | 23-26 | 67.0 | 67.6 | 67.9 | 67.8 | 66.9 | 73.4 | 70.8 | 70.8 | 74.2 | 72.2 | 71.3 | 72.2 | 74.5 | 75.7 | 80.3 | 74.2 | 76.9 | 78.5 | +1.6 |
|  | 27-30 | 60.9 | 58.3 | 59.6 | 55.6 | 57.2 | 61.8 | 58.6 | 63.1 | 63.7 | 62.3 | 62.7 | 66.7 | 70.0 | 66.9 | 69.2 | 72.3 | 72.9 | 73.6 | +0.6 |
|  | 35 | 39.2 | 38.4 | 36.3 | 37.7 | 39.1 | 40.9 | 37.5 | 37.9 | 40.0 | 40.4 | 42.1 | 44.9 | 44.4 | 45.0 | 50.8 | 49.0 | 52.7 | 55.3 | +2.6 |
|  | 40 | - | 39.2 | 38.2 | 38.0 | 38.4 | 36.2 | 36.5 | 34.6 | 36.2 | 35.4 | 34.6 | 35.9 | 39.0 | 37.3 | 36.6 | 40.3 | 42.1 | 42.0 | -0.1 |
|  | 45 | - | - | - | - | - | - | 37.8 | 38.3 | 34.3 | 36.7 | 38.5 | 35.9 | 36.1 | 37.7 | 36.2 | 39.2 | 39.5 | 41.3 | +1.8 |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 39.3 | 37.0 | 36.5 | 36.0 | 38.4 | 39.1 | 39.8 | +0.7 |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 36.2 | 36.2 | +0.0 |
| \% saying most or all | 18 | 23.7 | 25.9 | 25.5 | 24.5 | 25.2 | 23.1 | 23.5 | 23.0 | 20.2 | 20.9 | 21.7 | 21.3 | 22.4 | 25.4 | 29.1 | 26.4 | 26.7 | 24.6 | -2.1 |
|  | 19-22 | 16.2 | 16.8 | 20.6 | 18.9 | 20.3 | 20.2 | 17.3 | 14.7 | 15.8 | 16.8 | 14.5 | 13.7 | 16.0 | 17.2 | 21.8 | 17.3 | 22.1 | 20.5 | -1.6 |
|  | 23-26 | 10.5 | 9.6 | 8.4 | 9.7 | 10.4 | 10.3 | 10.3 | 11.7 | 9.7 | 11.1 | 8.1 | 8.9 | 12.7 | 13.9 | 10.5 | 9.1 | 13.6 | 15.3 | +1.7 |
|  | 27-30 | 4.5 | 5.3 | 5.7 | 5.3 | 7.1 | 6.9 | 6.9 | 3.9 | 4.7 | 5.4 | 6.5 | 6.3 | 6.4 | 6.6 | 7.1 | 6.8 | 6.7 | 8.3 | +1.6 |
|  | 35 | 3.0 | 3.1 | 2.8 | 3.1 | 3.2 | 2.9 | 3.2 | 2.8 | 2.5 | 2.1 | 2.2 | 2.2 | 2.5 | 3.7 | 4.5 | 3.3 | 4.7 | 5.1 | +0.4 |
|  | 40 | - | 2.3 | 2.0 | 2.0 | 1.6 | 2.2 | 1.6 | 1.6 | 2.1 | 2.5 | 2.0 | 1.3 | 1.3 | 2.1 | 1.9 | 1.2 | 2.3 | 3.3 | +1.0 |
|  | 45 | - | - | - | - | - | - | 2.2 | 1.5 | 1.4 | 1.7 | 1.3 | 1.3 | 1.2 | 1.5 | 1.2 | 1.0 | 1.5 | 1.9 | 0.4 |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 1.4 | 1.4 | 1.4 | 1.8 | 1.8 | 1.0 | 1.4 | +0.4 |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.0 | 0.9 | -1.1 |

Take any illicit drug

| other than marijuana ${ }^{b}$ | 18 | 55.1 | 55.6 | 51.2 | 52.5 | 55.0 | 54.3 | 50.0 | 51.4 | 51.3 | 51.0 | 50.0 | 49.3 | 49.4 | 53.7 | 49.9 | 48.9 | 45.4 | 43.7 | -1.7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \% saying any | 19-22 | 49.7 | 53.3 | 54.8 | 56.1 | 60.0 | 57.2 | 50.8 | 53.4 | 54.9 | 49.5 | 52.5 | 46.4 | 47.5 | 52.0 | 52.0 | 49.3 | 52.4 | 50.3 | -2.1 |
|  | 23-26 | 35.1 | 35.4 | 41.1 | 42.5 | 42.6 | 49.4 | 42.3 | 47.1 | 46.6 | 45.6 | 42.6 | 45.9 | 44.4 | 52.4 | 50.5 | 46.6 | 45.3 | 53.3 | +8.0 s |
|  | 27-30 | 33.9 | 34.1 | 35.2 | 31.7 | 33.5 | 36.0 | 34.7 | 35.8 | 33.1 | 36.2 | 34.2 | 36.4 | 41.6 | 40.1 | 40.9 | 50.1 | 44.6 | 48.2 | +3.6 |
|  | 35 | 19.2 | 19.3 | 19.0 | 17.9 | 18.7 | 20.4 | 18.5 | 20.2 | 18.5 | 18.1 | 20.7 | 23.7 | 20.2 | 23.9 | 26.4 | 25.7 | 25.2 | 26.5 | +1.4 |
|  | 40 | - | 20.9 | 21.0 | 21.9 | 21.4 | 21.0 | 20.2 | 18.5 | 21.0 | 20.3 | 20.3 | 19.8 | 20.6 | 18.8 | 17.4 | 20.2 | 18.7 | 17.9 | -0.8 |
|  | 45 | - | - | - | - | - | - | 23.4 | 25.1 | 20.8 | 22.7 | 25.0 | 21.2 | 20.7 | 20.9 | 21.5 | 22.6 | 20.9 | 19.7 | -1.2 |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 24.5 | 24.8 | 21.7 | 22.8 | 22.2 | 20.1 | 21.3 | +1.2 |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 19.9 | 19.0 | -0.9 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying most or all | 18 | 7.0 | 8.9 | 7.4 | 7.4 | 7.0 | 6.1 | 6.7 | 7.3 | 6.7 | 5.3 | 6.5 | 5.3 | 5.6 | 7.1 | 6.5 | 5.5 | 4.3 | 5.1 | +0.9 |
|  | 19-22 | 4.1 | 4.3 | 5.1 | 7.7 | 8.0 | 5.7 | 5.1 | 3.5 | 4.8 | 4.2 | 3.9 | 3.4 | 3.6 | 4.8 | 7.4 | 4.6 | 6.6 | 5.5 | -1.2 |
|  | 23-26 | 2.6 | 2.8 | 2.2 | 3.8 | 3.7 | 2.8 | 3.7 | 3.1 | 3.2 | 3.2 | 1.0 | 1.5 | 2.9 | 3.2 | 3.1 | 3.2 | 3.3 | 5.3 | +2.1 |
|  | 27-30 | 1.2 | 0.9 | 1.3 | 1.5 | 2.6 | 2.3 | 0.7 | 0.8 | 0.9 | 1.4 | 2.2 | 2.5 | 1.7 | 1.5 | 2.5 | 1.5 | 0.7 | 1.6 | +0.9 |
|  | 35 | 0.5 | 0.7 | 0.9 | 1.0 | 0.9 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.5 | 0.5 | 1.0 | 0.7 | 0.8 | 1.3 | 0.9 | -0.4 |
|  | 40 | - | 0.4 | 0.8 | 0.7 | 0.5 | 0.3 | 0.3 | 0.2 | 0.5 | 0.7 | 0.6 | 0.7 | 0.3 | * | 0.2 | 0.1 | 0.2 | 0.4 | +0.2 |
|  | 45 | - | - | - | - | - | - | 0.7 | 0.7 | 0.4 | 0.9 | 0.5 | 0.5 | 0.3 | 0.3 | 0.1 | 0.2 | 0.4 | 0.5 | +0.1 |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 0.5 | 0.4 | 0.3 | 0.8 | 0.4 | 0.2 | 0.3 | +0.1 |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.4 | 0.4 | 0.0 |


| Smoke marijuana \% saying any | 18 | 81.4 | 83.2 | 80.7 | 80.5 | 81.2 | 79.4 | 78.9 | 79.5 | 77.4 | 76.4 | 74.8 | 78.2 | 77.2 | 79.7 | 80.6 | 77.7 | 80.2 | 79.3 | -0.9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 19-22 | 74.7 | 77.2 | 73.9 | 81.2 | 78.4 | 77.2 | 76.5 | 75.6 | 75.8 | 72.0 | 76.6 | 74.7 | 77.7 | 75.6 | 74.7 | 76.8 | 76.2 | 77.5 | +1.2 |
|  | 23-26 | 63.5 | 65.0 | 64.4 | 64.8 | 64.5 | 68.8 | 67.7 | 68.4 | 70.7 | 67.6 | 69.0 | 67.7 | 71.7 | 71.9 | 77.5 | 71.5 | 73.4 | 74.7 | +1.2 |
|  | 27-30 | 58.3 | 55.5 | 57.0 | 51.7 | 56.5 | 59.0 | 55.8 | 60.4 | 60.8 | 61.0 | 60.2 | 64.2 | 65.2 | 62.3 | 65.9 | 66.6 | 69.2 | 69.4 | +0.2 |
|  | 35 | 35.0 | 34.6 | 33.3 | 34.9 | 35.6 | 37.4 | 32.9 | 34.7 | 37.2 | 37.3 | 38.6 | 42.1 | 40.6 | 41.3 | 47.4 | 45.1 | 48.8 | 54.0 | +5.3 s |
|  | 40 | - | 34.6 | 32.5 | 32.3 | 31.8 | 31.4 | 30.7 | 29.9 | 30.4 | 29.4 | 29.2 | 29.6 | 33.6 | 32.1 | 32.4 | 35.8 | 38.0 | 38.2 | +0.1 |
|  | 45 | - | - | - | - | - | - | 31.1 | 29.4 | 26.3 | 28.4 | 30.0 | 28.6 | 29.4 | 32.6 | 30.3 | 33.0 | 34.5 | 36.4 | +1.9 |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 30.1 | 26.9 | 28.0 | 27.9 | 31.3 | 33.0 | 34.0 | +1.0 |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 29.5 | 28.9 | -0.6 |
| \% saying most or all | 18 | 22.5 | 23.8 | 24.2 | 23.2 | 24.0 | 21.4 | 21.7 | 21.1 | 17.9 | 19.6 | 19.2 | 19.9 | 20.9 | 23.6 | 27.3 | 25.0 | 25.7 | 23.4 | -2.4 |
|  | 19-22 | 16.2 | 16.4 | 19.4 | 16.6 | 18.5 | 18.6 | 16.0 | 15.0 | 13.4 | 15.7 | 13.4 | 11.5 | 14.5 | 15.4 | 19.1 | 16.2 | 19.7 | 18.3 | -1.3 |
|  | 23-26 | 9.8 | 9.0 | 8.5 | 8.2 | 9.0 | 8.7 | 9.3 | 9.8 | 8.0 | 10.1 | 7.9 | 8.5 | 12.2 | 12.3 | 9.6 | 8.3 | 12.8 | 13.7 | +0.9 |
|  | 27-30 | 3.9 | 4.8 | 5.5 | 4.9 | 6.3 | 6.2 | 6.7 | 3.5 | 4.3 | 5.0 | 6.6 | 5.0 | 5.8 | 6.3 | 5.8 | 5.6 | 6.6 | 7.8 | +1.2 |
|  | 35 | 2.9 | 2.8 | 2.6 | 2.8 | 2.6 | 2.7 | 3.1 | 2.7 | 2.3 | 2.0 | 2.1 | 1.9 | 2.3 | 3.4 | 4.2 | 2.9 | 4.3 | 4.9 | +0.6 |
|  | 40 | - | 2.1 | 1.4 | 1.9 | 1.2 | 2.0 | 1.4 | 1.6 | 1.8 | 2.1 | 1.6 | 0.9 | 1.2 | 2.1 | 1.7 | 1.2 | 2.1 | 3.1 | +1.0 |
|  | 45 | - | - | - | - | - | - | 1.9 | 0.9 | 1.3 | 1.1 | 1.0 | 1.0 | 1.1 | 1.3 | 1.1 | 0.9 | 1.3 | 1.6 | +0.3 |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 1.2 | 1.2 | 1.2 | 1.3 | 1.5 | 1.0 | 1.2 | +0.2 |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.8 | 0.7 | -1.0 |

[^76]TABLE 7-2 (cont.)
Trends in Friends' Use of Drugs as Estimated by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

| Q. How many of your friends would you estimate. . |  | Percentage saying friends use ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1980 | 1981 | 1982 | $\underline{1983}$ | $\underline{1984}$ | $\underline{1985}$ | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | $\underline{1993}$ | 1994 | $\underline{1995}$ | $\underline{1996}$ | $\xrightarrow[\substack{\text { (Years } \\ \text { Cont.) }}]{\longrightarrow}$ |
| Use inhalants |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 17.8 | 16.5 | 18.4 | 16.1 | 19.3 | 21.2 | 22.4 | 24.7 | 20.8 | 22.1 | 20.0 | 19.2 | 22.2 | 23.7 | 26.5 | 27.5 | 27.2 |  |
|  | 19-22 | 11.9 | 13.2 | 13.8 | 12.3 | 11.7 | 9.6 | 10.9 | 12.7 | 10.9 | 11.7 | 13.0 | 12.2 | 12.6 | 13.8 | 14.0 | 14.2 | 16.2 |  |
|  | 23-26 | - | - | - | - | 7.7 | 6.7 | 7.2 | 6.1 | 6.2 | 5.9 | 6.1 | 4.4 | 5.1 | 6.3 | 7.0 | 9.3 | 5.6 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 4.6 | 3.5 | 2.9 | 2.5 | 3.3 | 2.9 | 3.5 | 4.0 | 4.1 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| \% saying most or all |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 18 | 1.2 | 0.9 | 1.3 | 1.1 | 1.1 | 1.5 | 2.0 | 1.9 | 1.2 | 1.9 | 1.0 | 0.7 | 1.8 | 1.8 | 2.0 | 2.0 | 2.4 |  |
|  | 19-22 | 0.5 | 0.4 | 0.7 | 0.3 | 0.5 | 0.6 | 0.7 | 0.7 | 0.7 | 0.4 | 0.6 | 0.2 | 0.8 | 0.7 | 0.7 | 0.6 | 1.1 |  |
|  | 23-26 | - | - | - | - | 0.6 | 0.2 | 0.6 | 0.1 | 0.2 | 0.4 | 0.4 | 0.1 | * | 0.1 | 0.2 | 0.7 | 0.5 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 0.3 | * | 0.2 | 0.2 | * | 0.2 | * | * | * |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Use nitrites \% saying any |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 18 | 19.0 | 17.4 | 17.5 | 14.5 | 15.0 | 15.6 | 18.0 | 18.3 | 13.6 | 13.3 | 10.4 | 8.9 | 9.0 | 10.7 | 10.0 | 10.7 | 11.2 |  |
|  | 19-22 | 18.4 | 16.0 | 14.2 | 13.8 | 8.9 | 9.9 | 11.7 | 13.2 | 10.2 | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | 10.8 | 7.8 | 8.0 | 7.9 | 5.2 | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 6.6 | - | - | - | - | - | - | - | - |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| \% saying most or all |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 18 | 1.3 | 1.2 | 0.9 | 0.7 | 1.2 | 1.0 | 1.2 | 1.3 | 0.7 | 0.9 | 0.6 | 0.4 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 |  |
|  | 19-22 | 0.3 | 0.4 | 0.9 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.2 | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | 0.8 | 0.3 | 0.4 | 0.3 | 0.1 | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 0.5 | - | - | - | - | - | - | - | - |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Take LSD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 28.1 | 28.5 | 27.8 | 24.0 | 23.9 | 24.4 | 24.5 | 25.3 | 24.1 | 25.2 | 25.0 | 23.4 | 28.1 | 31.3 | 34.1 | 36.9 | 37.9 |  |
|  | 19-22 | 30.9 | 25.9 | 26.5 | 22.6 | 21.6 | 18.8 | 18.7 | 18.2 | 19.0 | 20.1 | 20.1 | 22.0 | 22.2 | 28.8 | 23.8 | 26.9 | 28.6 |  |
|  | 23-26 | - | - | - | - | 21.5 | 17.2 | 15.4 | 15.9 | 13.3 | 14.1 | 12.3 | 12.5 | 15.0 | 17.2 | 17.3 | 21.5 | 15.3 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 10.4 | 7.7 | 9.1 | 8.6 | 10.9 | 8.7 | 8.1 | 12.0 | 11.6 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying most or all | 18 | 1.8 | 2.2 | 2.4 | 1.4 | 2.0 | 1.5 | 1.8 | 1.6 | 1.5 | 2.4 | 1.9 | 1.7 | 2.4 | 3.8 | 4.2 | 4.8 | 5.0 |  |
|  | 19-22 | 1.2 | 0.8 | 0.9 | 1.0 | 0.6 | 0.8 | 0.9 | 0.6 | 1.3 | 0.4 | 1.2 | 1.4 | 1.9 | 2.1 | 2.5 | 2.3 | 3.8 |  |
|  | 23-26 | - | - | - | - | 0.8 | 0.5 | 1.0 | 0.2 | 0.6 | 0.5 | 0.6 | 0.2 | 0.4 | 0.7 | 1.1 | 0.7 | 0.7 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 0.3 | 0.2 | 0.3 | 0.3 | * | 0.3 | 0.4 | 0.3 | 0.4 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |

TABLE 7-2 (cont.)
Trends in Friends' Use of Drugs as Estimated by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

| Q. How many of your friends would you estimate. | Age <br> Group | Percentage saying friends use ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1997 | $\underline{1998}$ | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | 2004 | $\underline{2005}$ | $\underline{2006}$ | 2007 | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | 2014 |  |
| Use inhalants |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 27.4 | 25.9 | 21.6 | 23.5 | 22.2 | 21.0 | 17.5 | 17.9 | 18.1 | 18.9 | 17.9 | 18.0 | 18.0 | 19.0 | 16.4 | 12.3 | 12.1 | 9.4 | -2.7 s |
|  | 19-22 | 13.7 | 16.2 | 16.3 | 13.7 | 13.7 | 10.4 | 10.0 | 9.5 | 11.1 | 11.0 | 9.6 | 7.4 | 6.6 | 8.3 | 11.9 | 8.2 | 7.3 | 5.5 | -1.8 |
|  | 23-26 | 7.5 | 6.2 | 7.9 | 6.9 | 7.5 | 7.4 | 7.9 | 6.2 | 5.8 | 5.2 | 3.7 | 6.1 | 6.5 | 6.0 | 4.8 | 5.4 | 4.1 | 4.4 | +0.4 |
|  | 27-30 | 3.6 | 3.8 | 4.2 | 3.6 | 6.0 | 4.5 | 3.2 | 2.6 | 3.2 | 3.3 | 2.8 | 2.7 | 3.6 | 1.7 | 3.2 | 3.8 | 2.9 | 5.4 | +2.5 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying most or all | 18 | 1.9 | 2.7 | 1.8 | 1.4 | 1.4 | 1.2 | 1.1 | 1.2 | 2.0 | 1.2 | 1.6 | 1.1 | 0.9 | 1.8 | 1.4 | 0.9 | 1.1 | 0.7 | -0.4 |
|  | 19-22 | 0.7 | 1.3 | 0.8 | 0.6 | 1.2 | 0.4 | 0.6 | * | 0.1 | 0.5 | 0.3 | 0.6 | * | 0.6 | 0.6 | 0.1 | 0.9 | * | -0.9 |
|  | 23-26 | 0.8 | * | 0.1 | 0.7 | 0.1 | 0.4 | 0.3 | * | 0.1 | 0.3 | * | * | * | 0.1 | 0.1 | * | 0.3 | 0.3 | -0.0 |
|  | 27-30 | * | * | * | * | 0.3 | 0.3 | * | * | * | * | * | 0.3 | 0.3 | * | 0.3 | * | 0.1 | 0.5 | +0.3 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Use nitrites |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 11.9 | 12.9 | 10.9 | 11.0 | 11.9 | 11.2 | 8.5 | 9.4 | 9.1 | 8.1 | 7.7 | 7.3 | 7.7 | - | - | - | - | - | - |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| \% saying most or all | 18 | 0.7 | 1.0 | 0.7 | 1.0 | 0.6 | 0.8 | 1.0 | 1.2 | 1.0 | 0.5 | 0.7 | 0.5 | 0.2 | - | - | - | - | - | - |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |


| Take LSD \% saying any |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \% saying most or all | 19-22 | 24.7 | 29.4 | 28.2 | 27.8 | 28.4 | 24.0 | 15.4 | 15.9 | 13.9 | 14.2 | 15.1 | 12.5 | 12.8 | 16.0 | 18.0 | 15.7 | 23.3 | 17.1 | -6.2 s |
|  | 23-26 | 18.2 | 15.2 | 18.1 | 19.3 | 16.8 | 15.8 | 16.1 | 14.4 | 12.0 | 11.7 | 11.2 | 9.2 | 11.0 | 11.9 | 10.2 | 11.5 | 13.4 | 16.7 | +3.3 |
|  | 27-30 | 12.3 | 12.6 | 13.4 | 11.8 | 12.5 | 13.1 | 11.4 | 8.9 | 6.6 | 9.1 | 7.6 | 8.8 | 7.6 | 8.2 | 7.6 | 7.7 | 10.6 | 9.7 | -0.9 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 18 | 3.7 | 4.7 | 3.9 | 3.1 | 2.9 | 1.7 | 1.9 | 1.5 | 1.5 | 0.8 | 1.2 | 1.1 | 1.1 | 1.5 | 1.4 | 1.3 | 1.2 | 1.2 | 0.0 |
|  | 19-22 | 1.4 | 2.5 | 1.8 | 2.1 | 2.7 | 1.6 | 0.8 | 0.3 | 0.3 | 0.2 | 0.8 | 0.2 | 0.3 | 1.4 | 0.7 | 1.0 | 1.0 | 0.9 | -0.1 |
|  | 23-26 | 0.6 | 1.0 | 1.5 | 0.9 | 0.3 | 0.4 | 0.8 | 0.4 | 0.2 | 0.3 | * | 0.1 | 0.5 | 0.1 | 0.6 | 0.4 | 0.3 | 0.6 | +0.3 |
|  | 27-30 | 0.4 | 0.1 | 0.6 | 0.4 | 0.4 | 0.3 | 0.1 | * | 0.3 | 0.4 | 0.4 | * | 0.5 | 0.2 | 0.1 | * | * | 0.3 | +0.3 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

TABLE 7-2 (cont.)
Trends in Friends' Use of Drugs as Estimated by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

|  |  | Percentage saying friends use ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Q. How many of your friends would you estimate. . . | Age Group | 1980 | $\underline{1981}$ | 1982 | $\underline{1983}$ | $\underline{1984}$ | $\underline{1985}$ | 1986 | 1987 | 1988 | $\underline{1989}$ | 1990 | $\underline{1991}$ | 1992 | $\underline{1993}$ | 1994 | 1995 | 1996 | (Years Cont.) |
| Take other |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| hallucinogens ${ }^{\text {c }}$ | 18 | 28.2 | 26.3 | 25.6 | 22.1 | 21.3 | 22.0 | 22.3 | 21.7 | 17.8 | 18.1 | 15.9 | 15.1 | 17.0 | 19.3 | 21.4 | 23.8 | 26.4 |  |
| \% saying any | 19-22 | 33.4 | 25.5 | 25.1 | 21.0 | 20.2 | 16.6 | 15.8 | 15.0 | 16.1 | 13.9 | 15.3 | 14.2 | 12.0 | 15.0 | 13.8 | 14.9 | 17.2 |  |
|  | 23-26 | - | - | - | - | 20.0 | 16.7 | 13.2 | 13.2 | 11.7 | 9.6 | 8.7 | 8.5 | 9.8 | 9.4 | 10.3 | 11.7 | 10.4 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 10.6 | 7.4 | 7.1 | 6.8 | 7.9 | 7.1 | 6.6 | 7.9 | 7.5 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying most or all | 18 | 2.2 | 2.1 | 1.9 | 1.6 | 1.9 | 1.4 | 1.3 | 1.2 | 0.9 | 1.4 | 1.0 | 0.8 | 1.0 | 1.7 | 2.2 | 2.2 | 2.3 |  |
|  | 19-22 | 1.5 | 0.9 | 1.1 | 1.2 | 0.7 | 1.0 | 0.7 | 0.6 | 0.9 | 0.2 | 0.5 | 0.8 | 0.7 | 0.9 | 1.6 | 1.5 | 1.0 |  |
|  | 23-26 | - | - | - | - | 0.8 | 0.3 | 0.5 | 0.3 | 0.2 | 0.3 | 0.8 | 0.1 | 0.4 | 0.7 | 0.6 | 0.8 | 0.1 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 0.2 | 0.1 | 0.3 | 0.2 | * | 0.2 | 0.3 | 0.1 | 0.2 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |


| Take PCP <br> \% saying any |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 18 | 22.2 | 17.2 | 17.3 | 14.2 | 14.2 | 15.9 | 16.1 | 15.5 | 13.5 | 14.7 | 13.0 | 12.0 | 12.7 | 15.6 | 15.5 | 18.3 | 20.3 |
| \% saying most or all | 19-22 | 24.1 | 15.3 | 15.3 | 12.6 | 9.5 | 8.9 | 10.1 | 9.7 | 10.1 | - | - | - | - | - | - | - | - |
|  | 23-26 | - | - | - | - | 11.6 | 6.8 | 7.4 | 6.9 | 5.1 | - | - | - | - | - | - | - | - |
|  | 27-30 | - | - | - | - | - | - | - | - | 6.7 | - | - | - | - | - | - | - | - |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 18 | 1.6 | 0.9 | 0.9 | 1.1 | 1.1 | 1.2 | 1.2 | 1.1 | 0.8 | 1.2 | 0.5 | 0.5 | 0.9 | 1.9 | 1.2 | 1.2 | 1.3 |
|  | 19-22 | 0.5 | 0.3 | 0.3 | 0.5 | 0.7 | 0.7 | 0.2 | 0.1 | 0.3 | - | - | - | - | - | - | - | - |
|  | 23-26 | - | - | - | - | 0.6 | * | 0.4 | * | 0.2 | - | - | - | - | - | - | - | - |
|  | 27-30 | - | - | - | - | - | - | - | - | 0.4 | - | - | - | - | - | - | - | - |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |


| Take ecstasy (MDMA) \% saying any | 18 | - | - | - | - | - | - | - | - | - | - | 12.4 | 11.9 | 10.7 | 12.8 | 15.9 | 20.7 | 24.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \% saying most or all | 19-22 | - | - | - | - | - | - | - | - | - | 16.3 | 14.3 | 12.0 | 12.9 | 13.7 | 11.3 | 17.2 | 20.7 |
|  | 23-26 | - | - | - | - | - | - | - | - | - | 7.6 | 9.0 | 9.5 | 11.0 | 9.8 | 11.4 | 11.2 | 11.3 |
|  | 27-30 | - | - | - | - | - | - | - | - | - | 5.6 | 6.3 | 5.4 | 4.6 | 6.6 | 5.8 | 6.9 | 10.1 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 18 | - | - | - | - | - | - | - | - | - | - | 2.2 | 1.7 | 2.1 | 1.2 | 1.7 | 2.8 | 3.0 |
|  | 19-22 | - | - | - | - | - | - | - | - | - | 0.4 | 0.7 | 0.2 | 0.7 | 0.7 | 0.5 | 0.5 | 0.8 |
|  | 23-26 | - | - | - | - | - | - | - | - | - | 0.5 | 0.2 | 0.1 | 0.1 | 0.5 | 0.1 | 0.4 | 0.1 |
|  | 27-30 | - | - | - | - | - | - | - | - | - | 0.5 | 0.3 | * | 0.1 | 0.3 | 0.2 | 0.5 | 0.1 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

TABLE 7-2 (cont.)
Trends in Friends' Use of Drugs as Estimated by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

| Q. How many of your friends would you estimate.$\qquad$ | Age <br> Group | Percentage saying friends use ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | 2008 | $\underline{2009}$ | 2010 | $\underline{2011}$ | 2012 | $\underline{2013}$ | $\underline{2014}$ |  |
| Take other hallucinogens ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 18 | 26.3 | 27.4 | 22.5 | 24.0 | 35.4 | 33.6 | 30.1 | 31.9 | 31.0 | 30.1 | 30.1 | 29.4 | 30.5 | 32.3 | 31.8 | 29.5 | 26.9 | 22.0 | -4.8 ss |
| \% saying any | 19-22 | 17.2 | 19.1 | 18.9 | 20.9 | 33.6 | 33.5 | 24.8 | 26.8 | 25.1 | 27.8 | 26.7 | 21.9 | 21.8 | 26.4 | 26.4 | 22.6 | 28.3 | 19.9 | -8.4 s |
|  | 23-26 | 13.0 | 11.7 | 9.6 | 11.3 | 18.6 | 22.4 | 20.2 | 24.5 | 18.5 | 18.9 | 15.9 | 21.1 | 19.6 | 22.6 | 16.5 | 17.5 | 17.4 | 25.5 | +8.1 s |
|  | 27-30 | 6.8 | 7.8 | 9.4 | 8.0 | 14.6 | 14.9 | 13.5 | 12.4 | 9.4 | 14.9 | 10.6 | 16.9 | 12.1 | 14.9 | 13.9 | 17.1 | 16.5 | 15.6 | -0.8 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| \% saying most or all |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 18 | 2.6 | 3.1 | 2.4 | 2.4 | 2.9 | 2.3 | 2.4 | 2.6 | 2.2 | 1.7 | 1.7 | 1.8 | 1.6 | 2.0 | 2.1 | 2.0 | 1.6 | 1.6 | 0.0 |
|  | 19-22 | 1.1 | 1.7 | 0.8 | 2.0 | 2.3 | 2.2 | 1.5 | 1.1 | 0.6 | 0.9 | 1.0 | 1.3 | 0.6 | 0.9 | 0.7 | 0.8 | 1.0 | 1.0 | 0.0 |
|  | 23-26 | 0.8 | 0.7 | 0.8 | 0.3 | 0.6 | 0.7 | 1.0 | 0.8 | 0.7 | 1.0 | 0.4 | 0.4 | 1.2 | 0.2 | 0.7 | 0.5 | 1.2 | 1.1 | -0.1 |
|  | 27-30 | 0.3 | 0.2 | 0.2 | 0.4 | 0.6 | 1.0 | 0.1 | * | 0.4 | 0.4 | 0.4 | 0.4 | 0.6 | 0.7 | 0.5 | 0.3 | 0.4 | 0.1 | -0.2 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Take PCP |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 19.7 | 20.2 | 16.8 | 17.5 | 19.1 | 17.2 | 13.6 | 11.8 | 10.1 | 10.6 | 9.4 | 9.4 | 9.3 | - | - | - | - | - | - |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying most or all | 18 | 1.4 | 1.6 | 1.5 | 1.7 | 1.3 | 1.0 | 1.5 | 1.1 | 1.0 | 0.5 | 0.8 | 0.5 | 0.5 | - | - | - | - | - | - |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |


| Take ecstasy (MDMA) \% saying any |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 18 | 27.7 | 24.5 | 26.7 | 37.3 | 41.9 | 38.0 | 34.2 | 28.9 | 23.1 | 23.0 | 23.6 | 24.7 | 23.5 | 25.9 | 27.5 | 26.8 | 25.6 | 24.3 | -1.3 |
|  | 19-22 | 21.4 | 26.0 | 30.7 | 42.4 | 43.3 | 43.4 | 31.3 | 27.6 | 28.3 | 25.2 | 21.6 | 19.3 | 24.4 | 20.4 | 22.0 | 18.9 | 27.4 | 19.9 | -7.5 s |
|  | 23-26 | 15.1 | 13.7 | 15.2 | 25.9 | 29.4 | 36.8 | 27.0 | 31.2 | 25.3 | 23.4 | 16.5 | 20.8 | 19.7 | 20.7 | 19.5 | 18.8 | 19.1 | 22.7 | +3.5 |
|  | 27-30 | 7.4 | 8.5 | 12.4 | 13.1 | 17.8 | 20.6 | 19.4 | 20.6 | 15.6 | 22.6 | 15.9 | 17.8 | 17.0 | 12.7 | 10.6 | 15.8 | 13.5 | 17.7 | +4.2 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| \% saying most or all | 18 | 2.6 | 2.5 | 2.7 | 4.8 | 5.2 | 3.7 | 2.7 | 3.2 | 2.5 | 1.9 | 2.1 | 2.4 | 2.2 | 2.1 | 2.7 | 2.7 | 1.8 | 1.8 | -0.9 |
|  | 19-22 | 1.7 | 2.0 | 2.9 | 4.9 | 5.8 | 2.7 | 1.9 | 1.9 | 1.1 | 0.7 | 0.8 | 0.9 | 1.6 | 1.3 | 2.9 | 1.2 | 2.0 | 1.5 | -0.5 |
|  | 23-26 | 0.8 | 0.8 | 0.4 | 2.9 | 1.7 | 1.2 | 2.0 | 1.1 | 1.3 | 0.9 | 0.3 | 0.4 | 0.7 | 0.6 | 0.4 | 1.7 | 1.0 | 2.2 | +1.1 |
|  | 27-30 | 0.3 | * | 0.8 | 0.4 | 0.3 | 0.9 | 0.5 | 0.6 | 0.2 | * | 0.1 | 0.9 | 0.7 | 0.1 | 0.5 | 0.3 | 0.1 | 0.8 | +0.6 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

TABLE 7-2 (cont.)
Trends in Friends' Use of Drugs as Estimated by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

| Q. How many of your friends would you estimate. . . |  | Percentage saying friends use ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Age <br> Group | 1980 | $\underline{1981}$ | 1982 | $\underline{1983}$ | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | $\underline{1990}$ | 1991 | 1992 | $\underline{1993}$ | 1994 | $\underline{1995}$ | $\underline{1996}$ | (Years Cont.) |
| Take cocaine |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 41.6 | 40.1 | 40.7 | 37.6 | 38.9 | 43.8 | 45.6 | 43.7 | 37.7 | 37.4 | 31.7 | 26.8 | 26.3 | 24.5 | 26.1 | 24.8 | 28.1 |  |
|  | 19-22 | 51.0 | 48.9 | 49.8 | 46.5 | 47.6 | 45.9 | 48.3 | 45.7 | 42.0 | 42.7 | 33.2 | 29.7 | 22.8 | 24.3 | 21.5 | 22.0 | 19.4 |  |
|  | 23-26 | - | - | - | - | 52.4 | 53.2 | 51.6 | 50.7 | 47.1 | 40.8 | 34.8 | 29.0 | 28.8 | 27.1 | 22.3 | 24.4 | 18.1 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 47.9 | 43.3 | 38.3 | 35.7 | 29.9 | 27.6 | 22.6 | 26.2 | 20.8 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying most or all | 18 | 6.1 | 6.3 | 4.9 | 5.1 | 5.1 | 5.8 | 6.2 | 5.1 | 3.4 | 3.7 | 2.1 | 1.5 | 1.5 | 2.1 | 1.5 | 2.0 | 2.2 |  |
|  | 19-22 | 7.0 | 8.6 | 7.8 | 6.1 | 6.3 | 6.1 | 6.1 | 3.3 | 3.5 | 2.1 | 1.2 | 1.1 | 1.0 | 0.5 | 1.5 | 0.9 | 1.0 |  |
|  | 23-26 | - | - | - | - | 9.1 | 5.3 | 7.0 | 4.1 | 3.1 | 2.7 | 2.1 | 0.6 | 0.9 | 0.8 | 1.0 | 0.3 | 0.4 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 3.8 | 2.0 | 2.3 | 0.9 | 1.2 | 0.8 | 0.8 | 0.4 | 0.4 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Take crack |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | - | - | - | - | - | - | - | 27.4 | 25.4 | 26.1 | 19.2 | 17.6 | 17.8 | 17.9 | 20.0 | 19.2 | 21.6 |  |
|  | 19-22 | - | - | - | - | - | - | - | 23.8 | 21.8 | 20.6 | 14.6 | 14.3 | 11.8 | 13.6 | 13.8 | 14.0 | 9.4 |  |
|  | 23-26 | - | - | - | - | - | - | - | 26.4 | 22.4 | 19.8 | 14.4 | 10.8 | 10.8 | 8.8 | 8.8 | 11.1 | 8.2 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 22.1 | 18.4 | 16.6 | 11.6 | 10.3 | 10.2 | 10.4 | 10.3 | 8.6 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.5 | 5.1 | 4.4 |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying most or all | 18 | - | - | - | - | - | - | - | 2.2 | 1.1 | 2.1 | 0.6 | 0.6 | 0.7 | 0.9 | 1.0 | 1.1 | 0.9 |  |
|  | 19-22 | - | - | - | - | - | - | - | 0.7 | 0.8 | 1.0 | 0.6 | 0.2 | 0.1 | 0.3 | 0.4 | 0.3 | 0.5 |  |
|  | 23-26 | - | - | - | - | - | - | - | 0.8 | 0.9 | 0.8 | 0.5 | 0.1 | 0.1 | 0.5 | 0.2 | * | 0.3 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 1.2 | 0.9 | 0.9 | 0.3 | * | 0.6 | 0.3 | 0.1 | 0.2 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.6 | 0.3 | 0.4 |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Take cocaine powder |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\%$ saying any | 18 | - | - | - | - | - | - | - | - | - | 25.3 | 24.6 | 19.8 | 19.7 | 18.1 | 20.7 | 19.2 | 22.8 |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14.2 | 12.9 | 15.4 |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| \% saying most or all | 18 | - | - | - | - | - | - | - | - | - | 2.3 | 2.5 | 1.8 | 2.0 | 1.6 | 1.9 | 1.7 | 1.9 |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.8 | 0.3 | 0.6 |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |

(Table continued on next page.)

TABLE 7-2 (cont.)
Trends in Friends' Use of Drugs as Estimated by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

| Q. How many of your friends would you estimate.$\qquad$ | Age Group | Percentage saying friends use ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\underline{1997}$ | 1998 | $\underline{1999}$ | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ |  |
| Take cocaine |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 28.2 | 31.2 | 27.8 | 27.2 | 27.1 | 26.8 | 23.8 | 29.3 | 28.1 | 29.7 | 29.7 | 25.2 | 24.0 | 22.9 | 18.8 | 18.1 | 18.8 | 17.9 | -1.0 |
|  | 19-22 | 22.2 | 26.8 | 25.7 | 24.8 | 27.4 | 28.2 | 25.5 | 26.2 | 27.2 | 26.6 | 29.4 | 21.8 | 21.2 | 21.8 | 22.3 | 15.9 | 19.5 | 20.5 | +0.9 |
|  | 23-26 | 19.7 | 18.7 | 20.1 | 20.3 | 19.4 | 23.7 | 21.9 | 27.4 | 25.6 | 24.6 | 23.1 | 23.1 | 23.5 | 28.0 | 23.7 | 21.6 | 18.9 | 20.3 | +1.4 |
|  | 27-30 | 21.5 | 18.6 | 20.7 | 16.5 | 19.7 | 16.0 | 17.0 | 17.0 | 17.9 | 19.5 | 18.6 | 20.7 | 22.1 | 19.2 | 16.1 | 21.6 | 18.4 | 20.8 | +2.4 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| \% saying most or all | 18 | 2.0 | 3.2 | 2.9 | 2.0 | 1.7 | 1.7 | 2.4 | 2.3 | 2.3 | 1.9 | 2.1 | 1.2 | 1.8 | 1.4 | 1.0 | 0.8 | 1.1 | 0.8 | -0.4 |
|  | 19-22 | 0.8 | 1.5 | 1.1 | 1.0 | 1.8 | 1.0 | 1.4 | 0.7 | 2.1 | 1.0 | 1.1 | 1.3 | 0.5 | 0.2 | 0.5 | 0.3 | 0.9 | 0.6 | -0.3 |
|  | 23-26 | 1.1 | 0.9 | 0.5 | 0.8 | 1.6 | 1.0 | 1.6 | 1.0 | 1.5 | 1.4 | 0.8 | 0.6 | 1.7 | 0.9 | 0.4 | 0.6 | 0.9 | 1.1 | +0.2 |
|  | 27-30 | 0.6 | 0.1 | 0.4 | 0.4 | 0.5 | 0.6 | 0.3 | 0.3 | * | * | 1.4 | 0.9 | 0.7 | 0.2 | 0.5 | 0.6 | 0.5 | 0.4 | -0.1 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Take crack |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 22.2 | 24.4 | 19.0 | 21.4 | 23.4 | 21.5 | 18.7 | 22.5 | 22.9 | 22.3 | 21.8 | 19.1 | 18.8 | 15.2 | 12.1 | 10.4 | 10.3 | 9.0 | -1.3 |
|  | 19-22 | 13.1 | 16.4 | 15.7 | 16.5 | 17.4 | 18.0 | 11.8 | 16.0 | 14.9 | 14.5 | 16.0 | 12.2 | 11.3 | 7.2 | 8.3 | 5.1 | 8.3 | 6.9 | -1.4 |
|  | 23-26 | 8.3 | 8.3 | 8.8 | 7.9 | 8.6 | 10.1 | 10.4 | 10.8 | 10.8 | 10.0 | 8.7 | 9.8 | 8.5 | 7.0 | 6.7 | 6.5 | 7.5 | 5.0 | -2.5 |
|  | 27-30 | 6.3 | 6.4 | 8.7 | 6.0 | 7.1 | 6.4 | 6.5 | 5.2 | 8.5 | 9.1 | 6.9 | 5.8 | 9.5 | 3.6 | 4.2 | 3.6 | 4.6 | 4.2 | -0.4 |
|  | 35 | 3.1 | 2.8 | 3.2 | 3.9 | 2.8 | 3.2 | 2.8 | 3.1 | 2.6 | 2.8 | 3.0 | 2.8 | 2.5 | 3.4 | 2.1 | 1.3 | 2.9 | 3.5 | +0.7 |
|  | 40 | - | 3.8 | 3.0 | 2.9 | 3.5 | 2.6 | 2.7 | 2.6 | 2.8 | 2.3 | 3.1 | 1.9 | 1.2 | 1.5 | 1.2 | 1.2 | 1.2 | 2.1 | +0.9 |
|  | 45 | - | - | - | - | - | - | 3.7 | 3.3 | 2.4 | 3.0 | 2.9 | 1.8 | 2.3 | 2.2 | 1.8 | 1.6 | 2.1 | 1.2 | -0.9 |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 2.0 | 1.6 | 1.8 | 1.4 | 1.1 | 1.2 | 1.9 | +0.7 |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.1 | 1.2 | -1.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying most or all | 18 | 1.1 | 1.7 | 1.5 | 1.4 | 0.8 | 0.8 | 1.4 | 1.6 | 1.6 | 1.0 | 1.3 | 1.1 | 1.1 | 1.5 | 0.9 | 0.8 | 0.9 | 0.8 | -0.1 |
|  | 19-22 | 0.3 | 0.9 | 0.9 | 0.5 | 0.3 | 0.2 | 0.4 | 0.1 | 1.0 | 0.8 | 0.3 | 0.4 | 0.3 | * | 0.3 | 0.3 | 0.6 | 0.1 | -0.5 |
|  | 23-26 | 0.5 | 0.4 | * | 0.5 | 0.3 | * | 0.3 | 0.5 | 0.2 | 0.7 | 0.1 | 0.3 | * | 0.4 | 0.1 | * | 0.3 | 0.1 | -0.2 |
|  | 27-30 | 0.2 | 0.1 | * | * | * | 0.3 | 0.1 | * | 0.1 | * | 0.3 | 0.6 | 0.3 | * | * | * | 0.5 | * | -0.5 |
|  | 35 | * | 0.1 | 0.3 | 0.5 | 0.2 | 0.3 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | * | 0.1 | 0.3 | * | 0.1 | * | * | 0.0 |
|  | 40 | - | * | 0.2 | 0.2 | 0.1 | * | * | * | 0.1 | 0.2 | 0.1 | 0.0 | * | * | * | * | 0.1 | * | -0.1 |
|  | 45 | - | - | - | - | - | - | 0.4 | 0.3 | 0.2 | 0.2 | * | * | 0.1 | * | * | 0.1 | 0.1 | 0.2 | +0.1 |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 0.2 | 0.1 | 0.2 | 0.1 | * | 0.2 | 0.1 | -0.1 |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.2 | 0.0 | -0.2 |
| Take cocaine powder |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 24.8 | 22.9 | 22.0 | 21.3 | 20.1 | 22.4 | 23.2 | 25.4 | 23.2 | 22.8 | 22.3 | 22.6 | 19.1 | 17.6 | 15.9 | 17.4 | 15.6 | 15.4 | -0.2 |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 35 | 11.1 | 10.4 | 10.0 | 10.3 | 9.4 | 9.4 | 8.2 | 9.2 | 8.3 | 8.4 | 9.1 | 11.4 | 8.7 | 10.5 | 12.8 | 9.0 | 11.6 | 12.8 | +1.2 |
|  | 40 | - | 10.8 | 8.9 | 8.8 | 8.8 | 8.5 | 7.6 | 7.6 | 8.9 | 7.3 | 6.7 | 6.2 | 6.5 | 4.9 | 4.8 | 5.2 | 6.6 | 6.6 | 0.0 |
|  | 45 | - | - | - | - | - | - | 8.3 | 8.0 | 7.0 | 7.4 | 8.0 | 6.7 | 6.4 | 5.9 | 5.8 | 6.0 | 6.0 | 5.2 | -0.8 |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 6.0 | 5.4 | 5.3 | 4.9 | 4.9 | 4.4 | 4.6 | +0.2 |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.1 | 3.0 | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying most or all | 18 | 2.0 | 1.9 | 1.9 | 1.8 | 1.5 | 1.9 | 1.9 | 3.3 | 1.7 | 1.7 | 1.8 | 1.5 | 1.5 | 1.0 | 1.6 | 1.5 | 1.2 | 1.8 | +0.5 |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 35 | 0.4 | 0.4 | 0.6 | 0.7 | 0.4 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.4 | 0.2 | 0.2 | 0.4 | 0.0 | 0.1 | 0.7 | 0.1 | -0.6 |
|  | 40 | - | 0.2 | 0.2 | * | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.5 | 0.2 | 0.2 | 0.1 | * | * | * | * | * | 0.0 |
|  | 45 | - | - | - | - | - | - | 0.5 | 0.5 | 0.2 | 0.4 | 0.1 | 0.1 | * | * | * | 0.1 | 0.3 | 0.2 | 0.0 |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 0.2 | 0.2 | 0.2 | 0.0 | * | 0.1 | 0.2 | +0.1 |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.2 | 0.1 | -0.1 |
| $\downarrow$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 7-2 (cont.)
Trends in Friends' Use of Drugs as Estimated by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

|  |  | Percentage saying friends use ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Q. How many of your friends would you estimate. . . | Age Group | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | (Years Cont.) |
| Take heroin |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 13.0 | 12.5 | 13.2 | 12.0 | 13.0 | 14.5 | 15.3 | 13.9 | 12.4 | 14.0 | 11.4 | 11.4 | 13.2 | 13.3 | 14.3 | 14.5 | 15.6 |  |
|  | 19-22 | 11.0 | 8.1 | 9.4 | 7.5 | 7.1 | 6.5 | 8.5 | 8.5 | 7.8 | 6.8 | 6.5 | 6.1 | 4.7 | 7.0 | 8.1 | 10.4 | 6.7 |  |
|  | 23-26 | - | - | - | - | 6.1 | 4.4 | 4.3 | 6.5 | 3.6 | 5.2 | 4.2 | 3.6 | 3.8 | 4.5 | 4.9 | 5.8 | 4.0 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 3.8 | 2.8 | 4.5 | 2.7 | 3.1 | 3.6 | 4.2 | 3.6 | 4.4 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying most or all | 18 | 1.0 | 0.5 | 0.7 | 0.8 | 0.8 | 0.9 | 1.1 | 0.9 | 0.7 | 1.1 | 0.4 | 0.4 | 0.7 | 1.1 | 1.0 | 1.1 | 0.9 |  |
|  | 19-22 | 0.3 | 0.5 | 0.1 | 0.2 | 0.4 | 0.6 | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 | 0.2 | 0.1 | 0.2 | 0.4 | 0.4 | 0.4 |  |
|  | 23-26 | - | - | - | - | 0.4 | 0.2 | 0.2 | * | 0.2 | 0.4 | 0.2 | 0.3 | 0.4 | 0.1 | 0.2 | 0.2 | * |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 0.2 | 0.1 | 0.2 | 0.2 | * | 0.2 | 0.3 | * | * |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Take other narcotics ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 22.4 | 23.1 | 23.9 | 20.8 | 21.4 | 22.8 | 21.8 | 23.2 | 19.2 | 19.2 | 17.2 | 13.7 | 14.9 | 16.1 | 18.5 | 19.5 | 21.8 |  |
|  | 19-22 | 22.8 | 20.4 | 21.9 | 17.9 | 17.4 | 16.9 | 14.6 | 15.4 | 14.1 | 15.0 | 12.9 | 14.1 | 10.8 | 13.2 | 10.5 | 15.9 | 13.4 |  |
|  | 23-26 | - | - | - | - | 16.0 | 14.9 | 14.0 | 13.0 | 10.6 | 10.8 | 10.5 | 8.5 | 8.4 | 8.7 | 8.0 | 10.5 | 8.9 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 12.1 | 8.6 | 9.1 | 9.3 | 7.5 | 8.2 | 8.0 | 7.7 | 9.5 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying most or all | 18 | 1.7 | 1.5 | 1.4 | 1.4 | 1.6 | 1.4 | 1.8 | 1.4 | 1.2 | 1.4 | 0.9 | 0.5 | 1.1 | 1.2 | 1.0 | 1.6 | 1.5 |  |
|  | 19-22 | 0.9 | 0.7 | 0.6 | 0.5 | 0.8 | 1.0 | 0.5 | 0.4 | 0.9 | 0.1 | 0.6 | 0.4 | 0.5 | 0.6 | 0.6 | 0.6 | 0.4 |  |
|  | 23-26 | - | - | - | - | 0.4 | 0.3 | 0.7 | * | 0.3 | 0.2 | 0.2 | * | * | * | 0.3 | 0.2 | * |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 0.3 | * | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | - | 0.2 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |


| Take amphetamines ${ }^{\text {e }}$ \% saying any | 18 | 43.9 | 48.8 | 50.6 | 46.1 | 45.1 | 43.3 | 41.8 | 39.5 | 33.4 | 33.5 | 28.7 | 24.3 | 24.3 | 27.5 | 28.1 | 30.3 | 32.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \% saying any | 19-22 | 54.1 | 52.2 | 51.3 | 49.7 | 46.1 | 42.1 | 38.5 | 34.5 | 26.8 | 29.6 | 23.3 | 26.2 | 19.5 | 21.0 | 20.9 | 21.7 | 21.6 |
|  | 23-26 | - | - | - | - | 45.6 | 40.1 | 33.5 | 32.1 | 28.4 | 23.1 | 20.6 | 17.1 | 15.1 | 16.8 | 16.2 | 18.2 | 12.5 |
|  | 27-30 | - | - | - | - | - | - | - | - | 26.1 | 21.6 | 19.3 | 17.0 | 15.3 | 14.0 | 13.1 | 13.7 | 15.5 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| \% saying most or all | 18 | 4.8 | 6.4 | 5.4 | 5.1 | 4.5 | 3.4 | 3.4 | 2.6 | 1.9 | 2.6 | 1.9 | 1.3 | 1.3 | 2.0 | 1.8 | 2.0 | 2.8 |
|  | 19-22 | 3.8 | 5.7 | 4.6 | 3.8 | 3.3 | 2.9 | 1.3 | 1.9 | 1.4 | 0.7 | 1.0 | 0.6 | 0.9 | 0.2 | 1.1 | 1.2 | 0.7 |
|  | 23-26 | - | - | - | - | 1.9 | 1.8 | 1.7 | 1.2 | 0.3 | 0.6 | 0.7 | 0.8 | 0.4 | 1.5 | 0.9 | 0.5 | 0.2 |
|  | 27-30 | - | - | - | - | - | - | - | - | 0.6 | 0.4 | 0.5 | 0.5 | 0.1 | 0.5 | 0.5 | 0.3 | 0.3 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

TABLE 7-2 (cont.)
Trends in Friends' Use of Drugs as Estimated by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

|  | Age Group | Percentage saying friends use ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Q. How many of your friends would you estimate. |  | 1997 | 1998 | $\underline{1999}$ | 2000 | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |  |
| Take heroin |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 15.6 | 16.5 | 12.7 | 14.9 | 13.1 | 12.9 | 10.3 | 12.7 | 13.1 | 12.7 | 12.9 | 11.2 | 12.7 | 12.4 | 10.2 | 7.7 | 8.5 | 7.9 | -0.6 |
|  | 19-22 | 7.4 | 9.4 | 9.7 | 7.7 | 8.7 | 8.9 | 5.3 | 7.0 | 6.4 | 7.5 | 9.0 | 6.4 | 3.9 | 5.3 | 6.2 | 6.4 | 4.8 | 4.6 | -0.2 |
|  | 23-26 | 6.2 | 5.8 | 4.8 | 4.7 | 5.0 | 5.2 | 6.1 | 2.9 | 5.1 | 3.5 | 4.3 | 3.1 | 5.9 | 6.9 | 3.9 | 5.9 | 4.6 | 3.9 | -0.6 |
|  | 27-30 | 4.2 | 3.5 | 3.8 | 2.8 | 4.3 | 3.9 | 3.4 | 3.0 | 3.8 | 2.5 | 3.0 | 2.1 | 3.9 | 3.3 | 2.6 | 3.5 | 4.6 | 3.3 | -1.2 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying most or all | 18 | 0.8 | 1.3 | 1.0 | 1.1 | 0.9 | 0.7 | 0.9 | 0.9 | 1.1 | 0.8 | 1.4 | 0.7 | 0.9 | 1.3 | 0.6 | 0.6 | 0.6 | 0.5 | 0.0 |
|  | 19-22 | 0.2 | 0.5 | 0.1 | 0.3 | 0.6 | * | 0.3 | * | 0.3 | 0.4 | 0.3 | 0.6 | * | * | 0.5 | 0.1 | 0.6 | * | -0.6 |
|  | 23-26 | 0.7 | * | * | 0.3 | * | 0.1 | * | * | 0.3 | 0.3 |  | * | 0.1 | 0.5 | 0.1 | 0.1 | 0.8 | 0.3 | -0.5 |
|  | 27-30 | * | 0.1 | * | * | * | 0.3 | * | * | * | * | * | * | 0.3 | * | 0.3 | * | 0.1 | 0.1 | 0.0 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Take other narcotics ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 22.2 | 24.8 | 22.9 | 23.1 | 24.0 | 27.5 | 21.6 | 24.6 | 21.4 | 23.0 | 20.7 | 20.6 | 21.5 | 36.3 | 31.0 | 28.5 | 25.8 | 22.0 | -3.8 s |
|  | 19-22 | 13.2 | 15.2 | 19.8 | 23.2 | 23.0 | 21.8 | 21.9 | 22.6 | 19.9 | 17.6 | 23.7 | 16.8 | 15.3 | 31.4 | 31.3 | 25.7 | 29.5 | 20.9 | -8.6 s |
|  | 23-26 | 9.9 | 9.4 | 10.4 | 11.2 | 13.5 | 14.6 | 18.4 | 16.8 | 18.3 | 17.6 | 14.2 | 16.0 | 19.3 | 36.7 | 30.4 | 27.9 | 25.6 | 29.2 | +3.6 |
|  | 27-30 | 7.9 | 8.3 | 7.2 | 8.4 | 11.2 | 11.8 | 11.0 | 12.0 | 12.5 | 13.1 | 10.6 | 14.3 | 14.2 | 28.4 | 29.8 | 32.9 | 30.4 | 29.6 | -0.8 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying most or all | 18 | 1.4 | 2.9 | 1.8 | 2.0 | 2.0 | 2.1 | 2.4 | 2.4 | 1.9 | 1.8 | 2.6 | 1.3 | 1.9 | 3.8 | 2.6 | 1.8 | 1.9 | 1.8 | -0.2 |
|  | 19-22 | 0.4 | 0.8 | 0.4 | 1.2 | 1.8 | 1.3 | 1.0 | 0.5 | 1.0 | 0.9 | 0.3 | 1.3 | 0.4 | 1.8 | 2.1 | 1.4 | 2.7 | 0.5 | -2.2 s |
|  | 23-26 | 0.6 | 0.3 | * | 0.4 | 0.5 | 0.6 | 0.6 | 0.5 | 0.8 | 0.5 | 0.3 | 0.1 | 0.9 | 1.6 | 1.1 | 1.0 | 1.6 | 1.2 | -0.5 |
|  | 27-30 | * | * | 0.2 | * | * | 0.3 | 0.1 | * | * | 0.6 | * | 0.6 | 0.6 | 0.9 | 1.2 | 0.1 | 0.5 | 0.5 | 0.0 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |


| Take amphetamines ${ }^{\text {e }}$ \% saying any | 18 | 32.7 | 33.8 | 30.8 | 32.9 | 33.2 | 34.4 | 28.1 | 31.4 | 28.8 | 29.0 | 27.4 | 27.3 | 30.0 | 31.1 | 31.3 | 30.5 | 25.7 | 25.0 | -0.7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 19-22 | 21.1 | 24.4 | 25.5 | 28.4 | 28.0 | 28.6 | 24.0 | 23.5 | 25.9 | 25.4 | 26.9 | 19.9 | 26.6 | 27.3 | 29.5 | 30.5 | 37.9 | 33.4 | -4.6 |
|  | 23-26 | 14.4 | 14.1 | 14.2 | 14.5 | 17.5 | 18.4 | 18.0 | 18.8 | 18.4 | 19.7 | 17.6 | 17.9 | 21.3 | 23.8 | 27.7 | 26.1 | 27.0 | 31.5 | +4.5 |
|  | 27-30 | 12.9 | 11.0 | 11.8 | 11.9 | 12.9 | 12.3 | 12.0 | 13.5 | 11.8 | 12.5 | 10.0 | 12.8 | 16.4 | 16.4 | 17.2 | 22.9 | 24.7 | 24.1 | -0.6 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| \% saying most or all | 18 | 2.4 | 3.4 | 2.8 | 3.1 | 2.2 | 2.4 | 2.1 | 2.9 | 2.2 | 2.0 | 2.4 | 1.8 | 2.0 | 2.9 | 2.2 | 2.4 | 2.2 | 2.9 | +0.7 |
|  | 19-22 | 0.7 | 1.2 | 0.7 | 1.7 | 1.6 | 1.3 | 1.2 | 0.5 | 0.7 | 1.1 | 0.4 | 1.3 | 1.6 | 1.2 | 4.3 | 2.0 | 3.5 | 3.8 | +0.3 |
|  | 23-26 | 0.8 | 0.5 | 0.6 | 0.3 | 0.5 | 0.3 | 0.7 | 0.1 | 0.3 | 0.7 | * | 0.1 | 0.3 | 0.8 | 1.3 | 1.5 | 1.9 | 2.2 | +0.4 |
|  | 27-30 | 0.1 | 0.3 | 0.6 | 0.1 | 0.5 | 0.9 | 0.1 | * | 0.4 | 0.4 | 0.4 | 0.3 | 0.5 | 0.3 | 0.3 | 0.3 | 0.1 | 0.3 | +0.2 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| $\downarrow$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 7-2 (cont.)
Trends in Friends' Use of Drugs as Estimated by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

(Table continued on next page.)

TABLE 7-2 (cont.)
Trends in Friends' Use of Drugs as Estimated by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

| Q. How many of your friends would you estimate. | Age <br> Group | Percentage saying friends use ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | 2008 | $\underline{2009}$ | $\underline{2010}$ | 2011 | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ |  |
| Take sedatives/ barbiturates ${ }^{\dagger}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 20.4 | 22.8 | 20.9 | 21.6 | 22.1 | 25.3 | 18.1 | 25.2 | 22.3 | 22.5 | 20.8 | 19.8 | 21.0 | 23.5 | 21.1 | 17.3 | 15.5 | 14.2 | -1.3 |
|  | 19-22 | 12.1 | 14.8 | 16.0 | 15.2 | 18.6 | 17.1 | 14.4 | 18.8 | 19.6 | 18.7 | 20.1 | 17.8 | 16.4 | 19.1 | 14.5 | 13.7 | 19.0 | 13.6 | -5.5 |
|  | 23-26 | 8.4 | 7.9 | 8.3 | 6.6 | 11.1 | 10.9 | 12.9 | 16.7 | 15.7 | 16.2 | 16.5 | 13.4 | 18.6 | 17.6 | 12.2 | 11.8 | 14.3 | 15.0 | +0.7 |
|  | 27-30 | 6.5 | 6.1 | 5.7 | 6.4 | 7.9 | 7.4 | 7.3 | 11.5 | 10.5 | 13.5 | 12.5 | 15.2 | 12.7 | 15.3 | 13.7 | 14.5 | 16.5 | 13.0 | -3.5 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying most or all | 18 | 1.1 | 2.5 | 1.4 | 1.7 | 1.1 | 1.7 | 1.9 | 2.0 | 1.8 | 1.3 | 1.6 | 1.3 | 1.3 | 1.5 | 1.3 | 1.5 | 1.2 | 1.1 | -0.1 |
|  | 19-22 | 0.7 | 0.4 | 0.4 | 1.0 | 0.9 | 0.8 | 0.7 | 0.3 | 0.3 | 0.2 | 0.6 | 0.5 | 1.0 | 0.6 | 0.6 | 0.3 | 1.2 | 0.7 | -0.6 |
|  | 23-26 | 0.8 | * | * | 0.4 | 0.4 | * | 0.2 | 0.4 | 0.2 | 0.5 | * | 0.4 | 0.4 | 0.5 | 0.3 | 0.4 | 0.7 | 0.4 | -0.3 |
|  | 27-30 | * | * | 0.2 | * | 0.3 | 0.6 | 0.1 | * | 0.5 | 0.4 | 0.6 | 0.1 | 0.9 | 0.4 | 0.2 | * | 0.1 | 0.1 | 0.0 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |


| \% saying any | 18 | 16.1 | 17.4 | 15.5 | 16.2 | 17.8 | 18.0 | 14.2 | 16.6 | 13.6 | 13.4 | 13.6 | 11.2 | 14.3 | - | - | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 19-22 | 9.3 | 10.6 | 11.4 | 13.1 | 14.6 | 13.0 | 10.3 | 8.3 | 8.2 | 8.6 | 8.8 | 5.9 | 5.3 | - | - | - | - | - | - |
|  | 23-26 | 6.5 | 6.6 | 6.4 | 4.9 | 7.7 | 8.5 | 8.9 | 6.5 | 7.7 | 5.6 | 5.6 | 4.1 | 8.0 | - | - | - | - | - | - |
|  | 27-30 | 4.9 | 4.1 | 5.1 | 5.0 | 4.9 | 6.6 | 4.3 | 4.4 | 3.6 | 4.9 | 4.3 | 5.8 | 4.5 | - | - | - | - | - | - |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| \% saying most or all | 18 | 1.1 | 2.0 | 1.4 | 1.4 | 1.2 | 1.2 | 1.2 | 1.6 | 1.3 | 1.3 | 1.6 | 0.8 | 1.1 | - | - | - | - | - | - |
|  | 19-22 | 0.6 | 0.5 | 0.4 | 0.9 | 0.8 | 0.1 | 0.4 | * | 0.4 | 0.2 | * | 0.2 | * | - | - | - | - | - | - |
|  | 23-26 | 0.8 | * | 0.2 | 0.3 | 0.3 | 0.1 | 0.2 | 0.1 | 0.2 | 0.3 | 0.3 | * | 0.1 | - | - | - | - | - | - |
|  | 27-30 | * | * | 0.2 | 0.3 | * | 0.3 | * | * | 0.3 | 0.7 | * | 0.3 | 0.5 | - | - | - | - | - | - |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |


| Take tranquilizers <br> \% saying any | 18 | 17.9 | 19.7 | 16.4 | 19.4 | 18.6 | 21.2 | 17.2 | 18.3 | 16.9 | 15.3 | 15.5 | 15.0 | 15.8 | 16.1 | 13.9 | 13.3 | 11.7 | 10.1 |
| :---: | :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $19-22$ | 11.7 | 13.7 | 16.2 | 16.7 | 21.3 | 18.1 | 14.5 | 12.3 | 11.5 | 13.0 | 17.2 | 11.6 | 11.1 | 11.6 | 8.2 | 10.2 | 12.7 | 8.6 |

TABLE 7-2 (cont.)
Trends in Friends' Use of Drugs as Estimated by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

|  |  | Percentage saying friends use ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Q. How many of your friends would you estimate. . . | Age <br> Group | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | $\underline{1995}$ | 1996 | (Years Cont.) |
| Drink alcoholic beverages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 96.1 | 94.7 | 95.7 | 95.5 | 94.6 | 94.6 | 95.6 | 95.4 | 95.7 | 95.1 | 92.0 | 91.2 | 90.5 | 88.9 | 90.1 | 90.9 | 89.6 |  |
|  | 19-22 | 96.3 | 96.7 | 96.6 | 97.3 | 96.8 | 95.8 | 96.9 | 95.6 | 97.0 | 97.6 | 96.1 | 95.2 | 93.1 | 95.1 | 92.5 | 94.8 | 93.7 |  |
|  | 23-26 | - | - | - | - | 96.8 | 96.8 | 96.2 | 95.9 | 95.3 | 95.4 | 94.7 | 93.9 | 95.1 | 94.4 | 94.0 | 94.1 | 92.7 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 96.1 | 96.0 | 95.2 | 94.4 | 95.6 | 93.4 | 93.3 | 93.3 | 93.1 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 89.6 | 89.9 | 90.3 |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| \% saying most or all | 18 | 68.9 | 67.7 | 69.7 | 69.0 | 66.6 | 66.0 | 68.0 | 71.8 | 68.1 | 67.1 | 60.5 | 58.6 | 56.9 | 57.0 | 59.6 | 56.4 | 56.4 |  |
|  | 19-22 | 76.6 | 77.6 | 75.2 | 75.1 | 74.9 | 71.9 | 74.2 | 71.3 | 73.4 | 74.1 | 70.0 | 71.4 | 67.4 | 66.5 | 68.7 | 63.9 | 67.0 |  |
|  | 23-26 | - | - | - | - | 73.2 | 74.4 | 69.5 | 74.9 | 68.9 | 69.8 | 67.1 | 69.3 | 68.8 | 68.7 | 70.7 | 67.0 | 68.9 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 66.7 | 67.8 | 62.0 | 62.7 | 63.3 | 61.3 | 63.2 | 62.6 | 64.1 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 43.8 | 45.1 | 49.5 |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |

Get drunk at least

| \% saying any | 18 | 83.1 | 81.8 | 83.1 | 83.9 | 81.5 | 82.5 | 84.7 | 85.6 | 84.4 | 82.8 | 79.2 | 79.8 | 79.9 | 79.2 | 81.4 | 78.9 | 78.5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 19-22 | 80.9 | 79.9 | 80.0 | 80.4 | 79.8 | 76.7 | 82.0 | 81.1 | 80.6 | 80.4 | 80.1 | 80.8 | 76.5 | 81.1 | 79.6 | 83.2 | 80.9 |
|  | 23-26 | - | - | - | - | 73.1 | 72.7 | 73.5 | 73.7 | 72.1 | 73.1 | 72.2 | 74.0 | 73.1 | 74.3 | 72.1 | 73.1 | 74.5 |
|  | 27-30 | - | - | - | - | - | - | - | - | 66.3 | 61.8 | 65.4 | 65.2 | 65.5 | 64.5 | 62.7 | 67.1 | 66.7 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 44.3 | 43.2 | 44.9 |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| \% saying most or all | 18 | 30.1 | 29.4 | 29.9 | 31.0 | 29.6 | 29.9 | 31.8 | 31.3 | 29.6 | 31.1 | 27.5 | 29.7 | 28.6 | 27.6 | 28.4 | 27.4 | 29.0 |
|  | 19-22 | 21.9 | 23.3 | 22.0 | 20.2 | 22.7 | 21.7 | 20.8 | 21.3 | 24.0 | 22.6 | 23.6 | 24.9 | 22.6 | 28.8 | 26.3 | 28.2 | 26.0 |
|  | 23-26 | - | - | - | - | 11.4 | 11.6 | 12.5 | 11.9 | 12.8 | 12.0 | 13.9 | 11.6 | 14.6 | 13.2 | 15.2 | 15.2 | 14.0 |
|  | 27-30 | - | - | - | - | - | - | - | - | 5.2 | 6.3 | 6.7 | 6.6 | 5.9 | 6.7 | 6.4 | 7.9 | 8.6 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.6 | 3.6 | 5.4 |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |


| \% saying any | 18 | 90.6 | 88.5 | 88.3 | 87.0 | 86.0 | 87.0 | 87.8 | 88.3 | 87.7 | 86.5 | 84.9 | 85.7 | 84.4 | 84.8 | 88.1 | 87.9 | 88.3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 19-22 | 94.4 | 94.3 | 93.4 | 93.1 | 91.9 | 91.6 | 91.1 | 90.3 | 89.3 | 90.0 | 86.1 | 86.1 | 86.7 | 86.7 | 86.1 | 88.8 | 89.2 |
|  | 23-26 | - | - | - | - | 93.9 | 95.0 | 91.6 | 92.1 | 89.8 | 90.1 | 88.7 | 89.6 | 85.6 | 88.3 | 86.4 | 86.8 | 85.3 |
|  | 27-30 | - | - | - | - | - | - | - | - | 92.6 | 89.8 | 90.7 | 90.4 | 88.0 | 85.8 | 84.8 | 84.9 | 85.4 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 72.7 | 71.7 | 71.7 |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| \% saying most or all | 18 | 23.3 | 22.4 | 24.1 | 22.4 | 19.2 | 22.8 | 21.5 | 21.0 | 20.2 | 23.1 | 21.4 | 21.8 | 21.4 | 25.0 | 25.3 | 27.5 | 30.4 |
|  | 19-22 | 31.8 | 27.6 | 25.6 | 25.2 | 25.6 | 22.7 | 21.9 | 22.5 | 19.3 | 19.9 | 19.2 | 20.2 | 20.3 | 22.2 | 21.7 | 28.4 | 24.0 |
|  | 23-26 | - | - | - | - | 25.6 | 22.7 | 19.7 | 18.5 | 16.5 | 20.5 | 16.9 | 18.1 | 16.0 | 15.5 | 16.6 | 13.9 | 17.6 |
|  | 27-30 | - | - | - | - | - | - | - | - | 15.8 | 14.2 | 11.6 | 12.9 | 11.9 | 14.3 | 10.9 | 12.3 | 10.4 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7.9 | 7.2 | 9.3 |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

## TABLE 7-2 (cont.)

Trends in Friends' Use of Drugs as Estimated by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

|  |  | Percentage saying friends use ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Q. How many of your friends would you estimate. . . | Age Group | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ |  |
| Drink alcoholic beverages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 90.7 | 91.2 | 90.2 | 89.8 | 89.2 | 88.0 | 87.9 | 87.8 | 87.2 | 86.0 | 85.1 | 85.2 | 83.7 | 83.9 | 82.6 | 82.0 | 82.0 | 79.7 | -2.3 |
|  | 19-22 | 94.5 | 94.5 | 92.8 | 95.2 | 93.4 | 94.5 | 92.5 | 90.4 | 95.0 | 91.9 | 94.0 | 92.6 | 93.2 | 90.9 | 88.9 | 93.3 | 92.0 | 91.0 | -1.0 |
|  | 23-26 | 95.4 | 95.5 | 93.3 | 94.5 | 93.1 | 95.3 | 92.8 | 94.9 | 91.6 | 93.6 | 94.7 | 93.3 | 95.0 | 95.3 | 95.3 | 92.3 | 92.5 | 94.1 | +1.6 |
|  | 27-30 | 95.1 | 93.1 | 94.4 | 92.7 | 91.4 | 92.8 | 90.5 | 94.4 | 93.7 | 95.6 | 92.4 | 91.7 | 93.9 | 93.0 | 92.5 | 93.4 | 91.6 | 95.1 | +3.5 |
|  | 35 | 89.5 | 88.1 | 88.7 | 89.6 | 89.3 | 90.1 | 87.4 | 93.4 | 91.3 | 90.6 | 90.5 | 91.0 | 90.4 | 93.3 | 93.0 | 92.7 | 93.2 | 92.6 | -0.6 |
|  | 40 | - | 88.4 | 88.9 | 90.7 | 89.6 | 90.5 | 89.2 | 90.5 | 92.1 | 90.8 | 93.0 | 89.3 | 92.6 | 92.1 | 92.4 | 91.3 | 91.9 | 90.8 | -1.1 |
|  | 45 | - | - | - | - | - | - | 87.9 | 90.3 | 89.8 | 90.1 | 89.8 | 90.5 | 89.5 | 90.6 | 90.8 | 90.1 | 91.4 | 92.4 | +1.1 |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 88.9 | 90.2 | 89.9 | 90.4 | 90.1 | 89.2 | 92.0 | +2.8 s |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 87.6 | 89.3 | +1.7 |
| \% saying most or all | 18 | 60.9 | 61.0 | 58.2 | 57.2 | 59.2 | 53.7 | 53.1 | 53.9 | 55.3 | 52.4 | 52.0 | 51.6 | 50.5 | 51.4 | 50.3 | 49.4 | 46.9 | 46.2 | -0.7 |
|  | 19-22 | 63.8 | 69.4 | 67.8 | 70.1 | 65.4 | 68.8 | 63.9 | 66.4 | 71.8 | 65.4 | 71.1 | 64.4 | 69.7 | 69.1 | 63.3 | 66.3 | 63.2 | 63.4 | +0.2 |
|  | 23-26 | 66.6 | 67.4 | 63.6 | 70.8 | 65.7 | 73.4 | 66.0 | 71.3 | 69.3 | 69.2 | 70.2 | 76.3 | 76.9 | 75.5 | 79.7 | 74.3 | 73.7 | 76.5 | +2.8 |
|  | 27-30 | 66.6 | 62.9 | 64.4 | 64.8 | 64.9 | 66.3 | 61.5 | 69.0 | 66.2 | 70.7 | 65.6 | 67.1 | 74.0 | 72.2 | 70.9 | 74.9 | 72.9 | 74.7 | +1.8 |
|  | 35 | 46.6 | 47.1 | 46.0 | 49.1 | 48.4 | 52.9 | 51.6 | 53.7 | 55.5 | 55.2 | 56.1 | 55.7 | 53.2 | 56.9 | 61.9 | 58.7 | 62.1 | 66.1 | +4.0 |
|  | 40 | - | 37.7 | 41.4 | 42.5 | 44.7 | 44.8 | 47.2 | 43.3 | 47.2 | 45.9 | 50.3 | 48.9 | 54.5 | 54.7 | 54.3 | 55.9 | 56.6 | 53.6 | -3.0 |
|  | 45 | - | - | - | - | - | - | 38.9 | 41.7 | 42.4 | 45.1 | 46.6 | 47.0 | 45.9 | 46.7 | 47.2 | 53.5 | 52.0 | 56.1 | +4.1 |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 37.7 | 39.3 | 41.9 | 43.5 | 45.8 | 48.2 | 48.6 | +0.5 |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 39.1 | 41.0 | +2.0 |

Get drunk at least
once a week
\% saying any

| 18 | 82.4 | 81.1 | 81.5 | 79.5 | 79.6 | 78.3 | 77.3 | 79.0 | 78.7 | 77.4 | 75.5 | 76.2 | 76.2 | 73.5 | 71.9 | 68.9 | 69.9 | 64.2 | -5.7 ss |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19-22 | 79.2 | 82.3 | 82.8 | 82.2 | 81.9 | 81.5 | 81.5 | 80.5 | 85.1 | 81.7 | 84.4 | 81.3 | 82.8 | 81.2 | 78.3 | 83.6 | 77.7 | 78.2 | +0.4 |
| 23-26 | 71.9 | 74.1 | 71.0 | 76.5 | 74.7 | 81.0 | 76.4 | 75.8 | 80.7 | 80.9 | 80.4 | 79.5 | 83.0 | 83.7 | 83.9 | 79.7 | 83.1 | 85.6 | +2.5 |
| 27-30 | 65.4 | 65.5 | 65.9 | 64.3 | 64.7 | 68.9 | 66.5 | 73.8 | 72.4 | 74.6 | 72.0 | 71.7 | 78.7 | 78.2 | 78.3 | 80.1 | 74.4 | 77.2 | +2.9 |
| 35 | 42.9 | 46.1 | 44.5 | 46.9 | 47.6 | 48.3 | 47.9 | 52.0 | 50.7 | 52.6 | 55.0 | 56.0 | 56.0 | 59.2 | 63.2 | 62.4 | 63.9 | 65.4 | +1.5 |
| 40 | - | 41.6 | 40.6 | 42.2 | 41.3 | 42.6 | 42.9 | 43.2 | 48.4 | 47.2 | 46.3 | 48.2 | 53.7 | 49.6 | 48.5 | 54.9 | 54.7 | 53.4 | -1.3 |
| 45 | - | - | - | - | - | - | 41.6 | 42.2 | 41.6 | 40.0 | 42.7 | 45.7 | 45.4 | 49.1 | 45.9 | 50.0 | 50.5 | 52.1 | +1.6 |
| 50 | - | - | - | - | - | - | - | - | - | - | - | 40.0 | 38.3 | 39.6 | 42.4 | 42.5 | 45.0 | 45.5 | +0.5 |
| 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 35.1 | 35.4 | +0.3 |
| 18 | 30.9 | 31.7 | 30.1 | 32.4 | 32.7 | 28.3 | 27.1 | 27.6 | 28.5 | 27.7 | 27.0 | 25.2 | 24.4 | 23.7 | 23.8 | 21.2 | 20.7 | 18.5 | -2.2 |
| 19-22 | 26.6 | 29.8 | 29.3 | 28.1 | 30.2 | 31.0 | 29.6 | 29.0 | 31.2 | 32.9 | 32.0 | 28.9 | 31.4 | 27.7 | 27.6 | 27.2 | 28.1 | 28.7 | +0.6 |
| 23-26 | 17.0 | 16.0 | 16.8 | 17.4 | 19.1 | 19.2 | 18.3 | 24.0 | 24.0 | 20.3 | 22.8 | 23.1 | 23.2 | 24.0 | 22.6 | 20.0 | 23.4 | 20.2 | -3.2 |
| 27-30 | 7.7 | 9.3 | 12.1 | 9.8 | 11.7 | 8.9 | 13.0 | 9.4 | 11.2 | 13.5 | 12.2 | 10.9 | 17.1 | 13.7 | 13.2 | 13.5 | 13.2 | 15.2 | +2.0 |
| 35 | 3.2 | 4.4 | 4.9 | 4.6 | 4.8 | 4.5 | 5.2 | 5.3 | 5.3 | 5.6 | 6.1 | 7.3 | 5.9 | 7.4 | 8.4 | 6.8 | 8.3 | 10.7 | +2.4 |
| 40 | - | 2.8 | 3.0 | 2.5 | 2.9 | 3.8 | 3.9 | 3.0 | 3.6 | 4.0 | 3.4 | 4.8 | 4.6 | 4.8 | 4.8 | 4.3 | 4.2 | 5.7 | +1.5 |
| 45 | - | - | - | - | - | - | 3.6 | 2.7 | 2.7 | 3.1 | 3.7 | 4.1 | 3.2 | 3.2 | 3.5 | 4.3 | 5.1 | 5.1 | 0.0 |
| 50 | - | - | - | - | - | - | - | - | - | - | - | 3.2 | 2.7 | 2.0 | 2.9 | 2.5 | 3.6 | 4.1 | +0.5 |
| 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.0 | 1.9 | -0.2 |

Smoke cigarettes
$\%$ saying any

| 18 | 89.9 | 89.5 | 89.3 | 87.2 | 86.8 | 85.4 | 83.3 | 83.7 | 81.8 | 81.4 | 77.1 | 78.4 | 79.6 | 78.0 | 75.4 | 74.3 | 72.1 | 66.4 | -5.8 ss |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19-22 | 91.3 | 92.6 | 91.0 | 90.9 | 90.9 | 89.7 | 86.5 | 89.7 | 89.3 | 85.8 | 86.8 | 84.4 | 88.3 | 81.8 | 79.4 | 78.2 | 77.4 | 76.5 | -0.9 |
| 23-26 | 85.4 | 88.7 | 84.1 | 86.5 | 86.7 | 86.4 | 86.5 | 87.0 | 87.3 | 85.4 | 84.1 | 86.8 | 85.3 | 87.7 | 86.5 | 83.1 | 80.3 | 82.2 | +1.9 |
| 27-30 | 84.1 | 81.1 | 86.3 | 85.1 | 84.9 | 87.0 | 82.8 | 83.5 | 81.0 | 84.4 | 81.7 | 82.1 | 84.1 | 84.6 | 83.8 | 85.2 | 81.6 | 84.4 | +2.9 |
| 35 | 72.4 | 71.8 | 69.9 | 70.8 | 69.2 | 66.6 | 67.0 | 67.7 | 65.5 | 67.0 | 64.8 | 67.6 | 62.2 | 65.4 | 66.1 | 66.4 | 63.2 | 63.8 | +0.5 |
| 40 | - | 70.2 | 70.0 | 67.8 | 64.3 | 65.5 | 65.1 | 62.4 | 63.8 | 64.6 | 59.2 | 59.7 | 60.5 | 57.4 | 57.4 | 56.7 | 59.1 | 56.2 | -2.9 |
| 45 | - | - | - | - | - | - | 66.1 | 67.0 | 62.9 | 60.9 | 58.5 | 56.1 | 57.7 | 60.6 | 58.0 | 57.4 | 54.3 | 56.0 | +1.7 |
| 50 | - | - | - | - | - | - | - | - | - | - | - | 62.1 | 61.3 | 59.2 | 55.9 | 57.4 | 54.7 | 55.4 | +0.6 |
| 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 56.5 | 52.4 | -4.1 |


| \% saying most or all | 18 | 34.4 | 33.9 | 31.1 | 28.2 | 25.0 | 23.0 | 19.6 | 20.6 | 16.7 | 15.8 | 16.4 | 13.9 | 14.1 | 14.9 | 14.1 | 12.2 | 11.0 | 8.1 | -2.9 s |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 19-22 | 25.1 | 28.8 | 26.8 | 29.4 | 27.0 | 25.7 | 20.2 | 20.7 | 20.4 | 15.2 | 17.9 | 12.9 | 15.3 | 16.7 | 13.7 | 13.6 | 10.8 | 9.4 | -1.4 |
|  | 23-26 | 17.0 | 16.8 | 17.5 | 17.0 | 15.5 | 15.1 | 18.3 | 19.8 | 19.6 | 13.9 | 14.7 | 15.0 | 13.4 | 15.0 | 11.1 | 10.6 | 13.5 | 11.4 | -2.2 |
|  | 27-30 | 12.1 | 12.3 | 13.4 | 11.7 | 10.2 | 12.9 | 12.2 | 9.2 | 12.6 | 12.6 | 12.7 | 10.8 | 12.4 | 7.9 | 7.4 | 10.0 | 6.8 | 7.7 | +0.8 |
|  | 35 | 7.2 | 8.0 | 9.0 | 6.7 | 8.8 | 6.6 | 6.3 | 6.9 | 6.0 | 6.8 | 5.7 | 5.9 | 6.4 | 6.8 | 6.2 | 5.5 | 4.9 | 5.8 | +0.9 |
|  | 40 | - | 8.1 | 7.4 | 6.8 | 5.7 | 5.8 | 5.9 | 6.0 | 7.0 | 5.1 | 4.7 | 4.5 | 3.9 | 4.0 | 4.2 | 2.9 | 3.8 | 4.0 | +0.2 |
|  | 45 | - | - | - | - | - | - | 5.7 | 5.9 | 6.1 | 5.4 | 4.5 | 3.7 | 4.8 | 5.2 | 3.8 | 3.4 | 4.6 | 2.5 | -2.1 s |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 4.0 | 4.3 | 4.2 | 3.6 | 2.6 | 2.3 | 4.4 | +2.1 s |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.3 | 2.2 | -1.1 s |

## TABLE 7-2 (cont.)

Trends in Friends' Use of Drugs as Estimated by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

|  |  | Percentage saying friends use ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Q. How many of your friends would you estimate. . . | Age <br> Group | 1980 | $\underline{1981}$ | 1982 | $\underline{1983}$ | 1984 | $\underline{1985}$ | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
| Take steroids |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | - | - | - | - | - | - | - | - | - | - | 25.9 | 24.7 | 21.5 | 19.0 | 18.1 | 19.5 | 17.9 |
|  | 19-22 | - | - | - | - | - | - | - | - | - | 23.4 | 21.5 | 22.2 | 19.7 | 20.7 | 16.8 | 16.6 | 16.1 |
|  | 23-26 | - | - | - | - | - | - | - | - | - | 15.3 | 15.0 | 12.3 | 14.5 | 11.1 | 10.5 | 12.4 | 7.3 |
|  | 27-30 | - | - | - | - | - | - | - | - | - | 9.9 | 10.5 | 7.5 | 8.0 | 8.0 | 8.0 | 8.0 | 10.2 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| \% saying most or all | 18 | - | - | - | - | - | - | - | - | - | - | 1.8 | 1.0 | 1.7 | 0.9 | 1.2 | 1.3 | 0.8 |
|  | 19-22 | - | - | - | - | - | - | - | - | - | 0.2 | 0.6 | * | 0.1 | 0.4 | 0.2 | 0.1 | * |
|  | 23-26 | - | - | - | - | - | - | - | - | - | 0.4 | * | * | 0.2 | 0.1 | 0.1 | * | * |
|  | 27-30 | - | - | - | - | - | - | - | - | - | 0.5 | * | * | * | 0.2 | 0.1 | * | * |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Approximate | 18 | 2,987 | 3,307 | 3,303 | 3,095 | 2,945 | 2,971 | 2,798 | 2,948 | 2,961 | 2,587 | 2,361 | 2,339 | 2,373 | 2,410 | 2,337 | 2,379 | 2,156 |
| Weighted $N=$ | 19-22 | 576 | 592 | 564 | 579 | 543 | 554 | 579 | 572 | 562 | 579 | 556 | 526 | 510 | 468 | 435 | 470 | 469 |
|  | 23-26 |  |  |  |  | 527 | 534 | 546 | 528 | 528 | 506 | 510 | 507 | 516 | 495 | 449 | 456 | 416 |
|  | 27-30 |  |  |  |  |  |  |  |  | 516 | 507 | 499 | 476 | 478 | 461 | 419 | 450 | 464 |
|  | 35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1,200 | 1,187 | 1,187 |
|  | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 55 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## TABLE 7-2 (cont.)

Trends in Friends' Use of Drugs as Estimated by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

|  |  | Percentage saying friends use ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Q. How many of your friends would you estimate. .. | Age Group | 1997 | 1998 | 1999 | $\underline{2000}$ | 2001 | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ |  |
| Take steroids |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 18.9 | 18.3 | 20.0 | 19.8 | 21.7 | 21.6 | 21.1 | 22.8 | 19.1 | 19.8 | 20.1 | 19.4 | 19.3 | 16.4 | 16.0 | 18.7 | 17.4 | 15.7 | -1.7 |
|  | 19-22 | 16.8 | 20.0 | 20.6 | 18.9 | 20.0 | 19.3 | 17.1 | 21.4 | 20.1 | 21.0 | 18.3 | 14.8 | 16.8 | 13.8 | 15.3 | 12.6 | 11.1 | 16.4 | +5.3 |
|  | 23-26 | 13.0 | 9.2 | 15.0 | 12.2 | 13.6 | 14.3 | 12.9 | 12.4 | 11.6 | 13.4 | 13.8 | 13.3 | 12.8 | 11.7 | 13.9 | 10.0 | 11.6 | 12.7 | +1.1 |
|  | 27-30 | 9.1 | 7.0 | 11.2 | 9.3 | 10.7 | 6.4 | 11.6 | 10.1 | 7.4 | 7.5 | 6.7 | 6.6 | 12.0 | 9.2 | 8.5 | 11.6 | 10.0 | 9.1 | -0.9 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| \% saying most or all | 18 | 1.7 | 1.4 | 0.9 | 1.9 | 1.2 | 1.5 | 1.5 | 2.6 | 1.5 | 0.9 | 1.2 | 1.3 | 1.5 | 1.7 | 1.1 | 1.8 | 1.5 | 1.7 | +0.2 |
|  | 19-22 | 0.1 | 0.3 | 0.1 | 0.3 | 0.7 | 0.7 | 0.4 | * | 0.1 | 0.3 | 0.3 | 0.3 | * | 0.7 | 0.6 | 0.4 | 0.7 | 0.5 | -0.3 |
|  | 23-26 | 0.5 | * | 0.1 | 0.3 | 0.2 | 0.1 | * | 0.1 | 0.3 | 0.3 | * | * | 0.7 | * | 0.1 | 0.1 | 0.3 | 0.1 | -0.2 |
|  | 27-30 | * | * | * | * | * | 0.3 | * | * | 0.1 | * | * | * | 0.3 | * | * | * | * | * | 0.0 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Approximate | 18 | 2,292 | 2,313 | 2,060 | 1,838 | 1,923 | 1,968 | 2,233 | 2,271 | 2,266 | 2,266 | 2,253 | 2,125 | 2,110 | 2,195 | 2,208 | 2,144 | 1,973 | 1,920 |  |
| Weighted $N=$ | 19-22 | 467 | 437 | 426 | 402 | 402 | 375 | 388 | 443 | 395 | 377 | 362 | 375 | 382 | 376 | 353 | 348 | 340 | 315 |  |
|  | 23-26 | 419 | 394 | 414 | 387 | 403 | 358 | 362 | 411 | 361 | 336 | 340 | 355 | 311 | 359 | 314 | 330 | 328 | 305 |  |
|  | 27-30 | 454 | 428 | 424 | 363 | 359 | 348 | 369 | 396 | 363 | 350 | 324 | 332 | 309 | 340 | 325 | 333 | 284 | 307 |  |
|  | 35 | 1,209 | 1,067 | 1,071 | 1,033 | 1,005 | 918 | 968 | 985 | 1,041 | 953 | 884 | 905 | 974 | 922 | 858 | 877 | 848 | 776 |  |
|  | 40 |  | 1,098 | 1,156 | 1,144 | 1,119 | 1,083 | 945 | 1,004 | 975 | 951 | 896 | 924 | 905 | 952 | 877 | 852 | 844 | 919 |  |
|  | 45 |  |  |  |  |  |  | 976 | 1,074 | 1,052 | 1,009 | 999 | 904 | 937 | 889 | 887 | 874 | 844 | 825 |  |
|  | 50 |  |  |  |  |  |  |  |  |  |  |  | 940 | 1,009 | 1,016 | 974 | 987 | 840 | 891 |  |
|  | 50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 880 | 943 |  |

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent years: $\mathrm{s}=.05, \mathrm{ss}=.01, \mathrm{sss}=.001$. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. ' - ' indicates data not available. ' $*$ ' indicates a prevalence rate of less than $0.05 \%$.
${ }^{2}$ Answer alternatives were: (1) None, (2) A few, (3) Some, (4) Most, (5) All. The any percentage combines categories (2)-(5). The most or all percentage combines categories (4) and (5).
${ }^{\text {b }}$ For the young adult sample, any illicit drug includes all of the drugs listed in this table except cigarettes and alcohol. For the $35-, 40-, 45-$, and 50 -year-olds,
any illicit drug includes marijuana, tranquilizers, crack, cocaine powder, and other illicit drugs.
${ }^{\text {c }}$ In 2001 the question text was changed from other psychedelics to other hallucinogens, and shrooms was added to the list of examples. These changes likely explain the discontinuity in the 2001 results.
${ }^{d}$ In 2010 the list of examples for narcotics other than heroin was changed from methadone, opium to Vicodin, OxyContin, Percocet, etc. This change likely explains the discontinuity in the 2010 results.
${ }^{\text {e In }} 2011$ pep pills and bennies were replaced in the list of examples by Adderall and Ritalin. This change likely explains the discontinuity in the 2011 results.
In 2004 the question text was changed from barbiturates to sedatives/barbiturates and the list of examples was changed from downers, goofballs, reds, yellows, etc. to just downers. These changes likely explain the discontinuity in the 2004 results.

TABLE 7-3
Trends in Exposure to Drug Use among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

| Q. During the LAST 12 MONTHS how often have |  | Percentage saying exposed to drug ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| following to get high or for "kicks"? | Age <br> Group | 1980 | $\underline{1981}$ | 1982 | 1983 | $\underline{1984}$ | $\underline{1985}$ | $\underline{1986}$ | 1987 | 1988 | $\underline{1989}$ | $\underline{1990}$ | 1991 | 1992 | $\underline{1993}$ | 1994 | $\underline{1995}$ | 1996 | $\begin{aligned} & \text { (Years } \\ & \text { Cont.) } \end{aligned}$ |
| Any illicit drug ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 84.3 | 82.7 | 81.4 | 79.4 | 77.9 | 77.7 | 75.5 | 73.9 | 71.3 | 68.6 | 67.6 | 64.2 | 61.3 | 66.1 | 70.8 | 75.3 | 78.0 |  |
|  | 19-22 | 80.6 | 81.0 | 81.5 | 76.5 | 76.3 | 77.4 | 74.6 | 72.7 | 69.5 | 61.5 | 60.8 | 58.9 | 58.6 | 58.4 | 60.7 | 66.4 | 67.2 |  |
|  | 23-26 | - | - | - | - | 68.9 | 70.2 | 68.0 | 62.4 | 62.7 | 58.3 | 54.6 | 52.1 | 48.2 | 49.9 | 47.1 | 54.2 | 50.3 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 52.4 | 50.2 | 47.0 | 39.6 | 41.7 | 38.9 | 45.6 | 42.4 | 44.9 |  |
| \% saying often exposed | 18 | 36.3 | 36.1 | 31.4 | 29.8 | 28.3 | 27.2 | 26.3 | 23.3 | 20.8 | 22.0 | 20.7 | 18.2 | 18.0 | 24.0 | 29.3 | 32.3 | 33.8 |  |
|  | 19-22 | 34.6 | 34.0 | 32.1 | 24.4 | 24.4 | 23.7 | 21.1 | 18.9 | 19.9 | 16.2 | 16.4 | 17.6 | 21.4 | 16.1 | 18.1 | 23.7 | 20.4 |  |
|  | 23-26 | - | - | - | - | 20.7 | 23.3 | 18.5 | 17.4 | 18.2 | 13.8 | 13.7 | 13.3 | 12.2 | 11.1 | 11.1 | 12.5 | 12.8 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 13.7 | 12.0 | 10.8 | 8.2 | 10.5 | 9.0 | 12.5 | 8.5 | 10.1 |  |


| Any illicit drug other than marijuana ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \% saying any | 18 | 58.5 | 62.6 | 62.5 | 59.4 | 59.8 | 59.3 | 55.3 | 51.7 | 47.8 | 47.1 | 45.4 | 40.0 | 41.6 | 42.6 | 45.3 | 47.2 | 49.7 |
|  | 19-22 | 56.9 | 58.4 | 61.6 | 54.9 | 57.1 | 53.3 | 53.4 | 48.5 | 46.4 | 36.5 | 39.4 | 33.8 | 37.1 | 29.4 | 33.9 | 36.8 | 36.5 |
|  | 23-26 | - | - | - | - | 51.5 | 51.9 | 51.5 | 43.6 | 42.9 | 36.8 | 34.0 | 30.0 | 27.3 | 27.8 | 24.9 | 26.8 | 23.2 |
|  | 27-30 | - | - | - | - | - | - | - | - | 35.8 | 33.7 | 31.5 | 25.8 | 26.6 | 24.2 | 25.8 | 21.1 | 21.8 |
| \% saying often exposed | 18 | 14.1 | 17.1 | 16.6 | 14.2 | 14.6 | 12.9 | 12.1 | 10.2 | 9.6 | 10.7 | 9.2 | 7.9 | 7.5 | 9.6 | 9.4 | 11.1 | 12.1 |
|  | 19-22 | 11.8 | 15.6 | 13.5 | 11.1 | 10.7 | 10.2 | 8.2 | 8.1 | 7.5 | 6.7 | 4.5 | 4.4 | 5.5 | 4.1 | 5.1 | 7.7 | 3.9 |
|  | 23-26 | - | - | - | - | 9.0 | 10.4 | 9.3 | 8.5 | 6.7 | 5.0 | 5.1 | 3.5 | 2.6 | 3.0 | 2.2 | 3.5 | 3.4 |
|  | 27-30 | - | - | - | - | - | - | - | - | 6.0 | 4.7 | 4.1 | 3.2 | 3.7 | 2.4 | 3.4 | 2.9 | 3.4 |
| Marijuana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 82.0 | 80.2 | 77.9 | 76.2 | 74.4 | 73.5 | 72.0 | 70.4 | 67.0 | 64.8 | 63.4 | 59.6 | 56.8 | 61.0 | 67.2 | 72.7 | 75.6 |
|  | 19-22 | 79.8 | 79.8 | 78.7 | 72.7 | 74.1 | 75.5 | 72.4 | 70.5 | 66.3 | 59.3 | 57.5 | 55.0 | 56.4 | 55.4 | 56.8 | 64.0 | 64.8 |
|  | 23-26 | - | - | - | - | 65.3 | 66.0 | 64.1 | 59.0 | 57.6 | 55.0 | 50.6 | 47.9 | 44.6 | 45.9 | 44.4 | 51.0 | 47.8 |
|  | 27-30 | - | - | - | - | - | - | - | - | 49.1 | 47.4 | 42.1 | 36.0 | 38.2 | 35.3 | 41.9 | 38.3 | 41.8 |
| \% saying often exposed | 18 | 33.8 | 33.1 | 28.0 | 26.1 | 24.8 | 24.2 | 24.0 | 20.6 | 17.9 | 19.5 | 17.8 | 16.0 | 15.6 | 20.9 | 27.6 | 30.7 | 31.8 |
|  | 19-22 | 32.6 | 30.5 | 30.3 | 21.1 | 21.9 | 20.3 | 18.6 | 16.4 | 18.3 | 14.2 | 14.7 | 15.9 | 19.9 | 14.7 | 17.0 | 22.1 | 20.3 |
|  | 23-26 | - | - | - | - | 17.5 | 20.6 | 14.6 | 14.8 | 15.6 | 11.6 | 11.2 | 11.6 | 10.9 | 10.4 | 10.4 | 11.1 | 11.5 |
|  | 27-30 | - | - | - | - | - | - | - | - | 10.9 | 9.8 | 8.5 | 6.7 | 8.9 | 7.6 | 10.7 | 7.4 | 9.1 |
| LSD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 17.2 | 17.4 | 16.1 | 13.8 | 12.5 | 13.2 | 13.1 | 12.9 | 13.4 | 15.0 | 14.9 | 15.7 | 17.8 | 21.0 | 24.2 | 26.1 | 27.6 |
|  | 19-22 | 17.4 | 15.8 | 16.0 | 13.5 | 12.8 | 12.7 | 10.8 | 10.9 | 12.0 | 12.0 | 12.1 | 13.1 | 19.3 | 13.4 | 16.5 | 18.6 | 20.7 |
|  | 23-26 | - | - | - | - | 8.3 | 9.3 | 8.8 | 7.3 | 6.3 | 6.7 | 8.4 | 8.6 | 8.8 | 7.8 | 8.4 | 9.9 | 8.6 |
|  | 27-30 | - | - | - | - | - | - | - | - | 3.6 | 3.2 | 3.3 | 3.6 | 3.9 | 4.9 | 5.3 | 5.5 | 4.3 |
| \% saying often exposed | 18 | 1.4 | 2.0 | 1.9 | 1.4 | 1.5 | 1.3 | 1.6 | 1.8 | 1.6 | 2.2 | 2.6 | 2.9 | 3.0 | 3.9 | 4.2 | 6.1 | 4.7 |
|  | 19-22 | 1.4 | 1.5 | 1.4 | 0.6 | 0.8 | 0.7 | 0.5 | 1.2 | 0.6 | 1.1 | 1.2 | 1.0 | 2.0 | 1.1 | 0.4 | 3.6 | 1.4 |
|  | 23-26 | - | - | - | - | 0.3 | 0.4 | 0.4 | 0.7 | 0.6 | 0.3 | 0.5 | 0.2 | 0.8 | 0.3 | 0.5 | 0.5 | 0.4 |
|  | 27-30 | - | - | - | - | - | - | - | - | 0.3 | 0.2 | 0.5 | 0.2 | 0.2 | 0.5 | 0.5 | 0.2 | 0.2 |
| Other hallucinogens ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 20.4 | 17.6 | 16.8 | 13.1 | 12.7 | 12.5 | 11.8 | 10.0 | 9.0 | 8.8 | 9.4 | 9.4 | 9.7 | 12.1 | 14.0 | 15.8 | 16.6 |
|  | 19-22 | 18.3 | 16.3 | 16.3 | 12.5 | 10.5 | 11.0 | 9.2 | 9.1 | 7.7 | 8.4 | 8.3 | 8.9 | 10.6 | 6.7 | 8.3 | 12.8 | 13.1 |
|  | 23-26 | - | - | - | - | 8.4 | 8.9 | 9.1 | 6.0 | 5.1 | 4.8 | 5.7 | 5.5 | 5.1 | 5.7 | 5.2 | 5.5 | 6.9 |
|  | 27-30 | - | - | - | - | - | - | - | - | 5.0 | 3.4 | 3.4 | 3.4 | 2.1 | 3.7 | 3.4 | 4.2 | 3.2 |
| \% saying often exposed | 18 | 2.2 | 2.0 | 2.6 | 1.1 | 1.7 | 1.4 | 1.5 | 1.2 | 1.1 | 1.3 | 1.2 | 1.3 | 1.1 | 1.9 | 2.3 | 2.5 | 2.7 |
|  | 19-22 | 1.1 | 0.9 | 0.9 | 0.7 | 0.8 | 0.8 | 0.2 | 0.8 | 0.3 | 0.4 | 0.4 | 0.5 | 0.7 | 0.4 | 0.2 | 1.6 | 0.7 |
|  | 23-26 | - | - | - | - | 0.1 | 0.3 | 0.5 | 0.6 | 0.8 | 0.1 | 0.4 | 0.4 | * | 0.2 | 0.4 | 0.3 | 0.3 |
|  | 27-30 | - | - | - | - | - | - | - | - | 0.2 | 0.4 | 0.5 | 0.3 | 0.1 | 0.5 | 0.2 | 0.3 | 0.2 |

TABLE 7-3 (cont.)
Trends in Exposure to Drug Use
among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

| Q. During the LAST 12 MONTHS how often have you been around people who were taking each of the following to get high or for "kicks"? |  | Percentage saying exposed to drug ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Age Group | $\underline{1997}$ | $\underline{1998}$ | $\underline{1999}$ | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ |  |
| Any illicit drug ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 78.8 | 77.2 | 77.9 | 76.0 | 76.5 | 76.5 | 73.6 | 74.3 | 73.0 | 73.7 | 70.8 | 71.9 | 74.1 | 76.0 | 76.6 | 76.4 | 75.4 | 75.2 | -0.2 |
|  | 19-22 | 65.3 | 69.1 | 65.8 | 64.7 | 69.7 | 65.7 | 68.0 | 67.6 | 68.8 | 67.1 | 67.4 | 66.2 | 69.8 | 66.0 | 68.3 | 70.4 | 72.1 | 73.6 | +1.5 |
|  | 23-26 | 55.4 | 50.6 | 50.5 | 55.1 | 56.4 | 56.5 | 57.0 | 53.5 | 53.9 | 56.7 | 58.3 | 56.3 | 57.7 | 56.3 | 62.6 | 67.0 | 65.2 | 65.1 | -0.1 |
|  | 27-30 | 41.6 | 37.5 | 41.1 | 40.8 | 42.2 | 47.0 | 46.7 | 43.3 | 45.7 | 48.4 | 44.1 | 48.7 | 42.5 | 49.3 | 51.6 | 58.9 | 57.2 | 57.1 | -0.1 |
| \% saying often exposed | 18 | 34.7 | 33.2 | 35.6 | 32.6 | 33.6 | 32.6 | 31.8 | 30.4 | 29.9 | 29.7 | 27.8 | 28.6 | 31.4 | 33.2 | 34.6 | 34.9 | 32.3 | 31.3 | -1.0 |
|  | 19-22 | 25.3 | 24.2 | 24.0 | 21.3 | 26.1 | 25.2 | 26.5 | 26.8 | 25.2 | 24.2 | 22.8 | 20.1 | 23.7 | 26.5 | 24.8 | 27.3 | 24.6 | 29.8 | +5.2 |
|  | 23-26 | 14.3 | 14.2 | 15.0 | 15.9 | 16.4 | 15.9 | 17.8 | 15.1 | 18.7 | 14.9 | 18.9 | 15.4 | 14.9 | 18.8 | 19.4 | 21.2 | 20.8 | 20.1 | -0.7 |
|  | 27-30 | 10.3 | 8.5 | 9.6 | 9.4 | 10.4 | 13.8 | 13.9 | 10.3 | 14.5 | 13.2 | 9.7 | 9.7 | 12.1 | 13.2 | 13.6 | 15.7 | 18.5 | 16.1 | -2.4 |


| Any illicit drug other than marijuana ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \% saying any | 18 | 47.9 | 47.3 | 46.5 | 47.2 | 49.9 | 49.3 | 46.3 | 48.3 | 45.9 | 45.4 | 45.4 | 43.8 | 44.3 | 47.2 | 46.6 | 45.0 | 44.2 | 41.0 | -3.2 |
|  | 19-22 | 39.4 | 40.0 | 36.4 | 38.1 | 39.2 | 38.0 | 40.2 | 40.9 | 41.1 | 38.5 | 42.7 | 38.2 | 37.1 | 38.5 | 38.5 | 41.8 | 38.9 | 44.0 | +5.0 |
|  | 23-26 | 25.6 | 27.1 | 28.0 | 31.0 | 31.4 | 31.5 | 32.2 | 32.6 | 32.3 | 34.5 | 33.1 | 31.3 | 33.0 | 34.8 | 39.9 | 37.8 | 37.4 | 33.9 | -3.5 |
|  | 27-30 | 21.4 | 15.4 | 19.5 | 17.2 | 22.2 | 23.1 | 26.1 | 23.2 | 27.1 | 27.4 | 24.8 | 27.7 | 22.8 | 29.3 | 33.4 | 35.2 | 34.4 | 30.1 | -4.3 |
| \% saying often exposed | 18 | 11.7 | 9.9 | 11.7 | 10.5 | 11.9 | 12.6 | 10.8 | 11.4 | 10.6 | 11.4 | 10.8 | 8.2 | 9.4 | 10.2 | 11.5 | 11.6 | 9.3 | 9.7 | +0.4 |
|  | 19-22 | 7.6 | 7.0 | 4.8 | 6.4 | 7.8 | 8.6 | 5.2 | 7.9 | 8.0 | 6.7 | 6.9 | 6.6 | 6.8 | 6.6 | 6.9 | 10.1 | 8.1 | 9.4 | +1.2 |
|  | 23-26 | 3.1 | 3.1 | 4.3 | 3.5 | 3.4 | 5.0 | 5.4 | 5.4 | 4.0 | 5.4 | 6.7 | 5.4 | 3.8 | 6.4 | 6.3 | 7.6 | 5.8 | 7.0 | +1.2 |
|  | 27-30 | 3.2 | 1.0 | 2.5 | 1.6 | 3.7 | 4.7 | 4.9 | 2.4 | 5.6 | 4.0 | 3.4 | 2.3 | 3.0 | 4.8 | 4.2 | 4.5 | 4.8 | 4.9 | +0.2 |
| Marijuana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 76.8 | 75.5 | 75.8 | 73.8 | 74.9 | 74.2 | 71.4 | 72.2 | 70.8 | 71.4 | 68.4 | 69.8 | 71.8 | 74.2 | 74.6 | 75.1 | 73.7 | 73.4 | -0.3 |
|  | 19-22 | 63.4 | 67.1 | 63.5 | 63.9 | 68.0 | 64.6 | 64.8 | 65.1 | 66.8 | 65.4 | 66.3 | 64.3 | 67.5 | 64.9 | 65.7 | 67.6 | 69.0 | 71.1 | +2.1 |
|  | 23-26 | 53.1 | 48.8 | 48.1 | 51.8 | 54.2 | 53.5 | 54.4 | 50.6 | 49.7 | 51.9 | 53.3 | 54.0 | 55.5 | 54.0 | 57.9 | 63.9 | 63.4 | 61.1 | -2.4 |
|  | 27-30 | 39.1 | 35.7 | 38.7 | 38.8 | 37.0 | 44.6 | 44.1 | 40.4 | 42.4 | 44.1 | 40.7 | 44.8 | 39.8 | 43.5 | 46.1 | 56.0 | 52.3 | 54.4 | +2.1 |
| \% saying often exposed | 18 | 32.9 | 31.4 | 34.4 | 30.3 | 30.8 | 30.7 | 30.4 | 28.0 | 27.0 | 27.8 | 25.1 | 27.0 | 29.3 | 31.3 | 32.3 | 32.2 | 30.6 | 29.2 | -1.4 |
|  | 19-22 | 23.7 | 22.8 | 23.0 | 20.4 | 24.5 | 24.8 | 24.2 | 24.5 | 23.6 | 23.1 | 20.1 | 18.3 | 22.6 | 25.2 | 22.9 | 24.2 | 22.6 | 28.2 | +5.5 |
|  | 23-26 | 12.9 | 13.6 | 13.2 | 15.2 | 15.6 | 14.9 | 16.2 | 13.7 | 17.8 | 12.5 | 16.2 | 13.7 | 13.5 | 17.0 | 18.0 | 19.7 | 18.3 | 18.8 | +0.5 |
|  | 27-30 | 8.9 | 8.1 | 8.8 | 8.6 | 8.4 | 11.7 | 11.7 | 9.6 | 12.2 | 11.5 | 8.2 | 8.5 | 12.3 | 10.8 | 10.9 | 13.9 | 16.0 | 14.7 | -1.3 |
| LSD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 25.9 | 23.1 | 23.6 | 22.0 | 21.6 | 17.2 | 14.2 | 12.4 | 10.8 | 11.6 | 12.4 | 12.1 | 11.9 | 14.1 | 13.5 | 13.0 | 13.8 | 12.9 | -0.9 |
|  | 19-22 | 22.3 | 21.0 | 20.1 | 15.9 | 15.2 | 13.6 | 10.0 | 8.5 | 7.2 | 10.4 | 6.3 | 9.2 | 9.1 | 9.7 | 10.1 | 12.2 | 10.0 | 13.1 | +3.1 |
|  | 23-26 | 7.6 | 9.8 | 9.4 | 9.8 | 11.1 | 9.3 | 5.5 | 4.4 | 4.7 | 5.6 | 4.5 | 4.8 | 3.7 | 5.7 | 8.9 | 9.6 | 8.3 | 7.6 | -0.7 |
|  | 27-30 | 3.9 | 3.2 | 3.7 | 3.2 | 4.3 | 4.8 | 3.0 | 4.7 | 4.0 | 3.4 | 3.9 | 1.7 | 3.8 | 4.2 | 4.1 | 4.2 | 4.7 | 4.6 | -0.1 |
| \% saying often exposed | 18 | 5.1 | 3.2 | 4.1 | 3.3 | 2.8 | 2.6 | 1.8 | 1.6 | 1.5 | 1.9 | 1.7 | 0.8 | 1.3 | 1.4 | 1.4 | 1.6 | 1.5 | 1.5 | 0.0 |
|  | 19-22 | 1.8 | 2.0 | 1.7 | 1.4 | 2.4 | 0.9 | 0.2 | 0.1 | 0.7 | 0.7 | 0.3 | 0.7 | 0.3 | 0.1 | 0.2 | 0.6 | 0.9 | 0.4 | -0.5 |
|  | 23-26 | 0.2 | 0.1 | 0.3 | 0.2 | * | 0.3 | 0.3 | * | 0.3 | * | 0.5 | 0.6 | * | 0.6 | 0.3 | 1.4 | 0.1 | 0.8 | +0.6 |
|  | 27-30 | * | * | 0.1 | * | * | * | 0.3 | 0.3 | 0.6 | * | 0.1 | * | 0.3 | 0.5 | 0.5 | 0.6 | 1.0 | 0.3 | -0.7 |


| Other hallucinogens ${ }^{\text {c }}$ \% saying any | 18 | 17.8 | 15.9 | 17.7 | 16.3 | 28.1 | 26.4 | 25.8 | 24.8 | 24.3 | 23.8 | 23.5 | 23.6 | 22.0 | 25.0 | 23.8 | 22.7 | 22.3 | 19.8 | -2.6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 19-22 | 15.0 | 15.0 | 12.4 | 11.8 | 22.8 | 23.4 | 18.9 | 18.7 | 19.5 | 17.8 | 20.2 | 17.5 | 17.5 | 19.6 | 17.5 | 17.0 | 14.6 | 19.1 | +4.5 |
|  | 23-26 | 5.6 | 8.7 | 5.8 | 8.9 | 14.8 | 14.7 | 11.9 | 10.1 | 11.3 | 10.3 | 9.8 | 9.8 | 9.9 | 12.5 | 13.8 | 13.6 | 14.6 | 10.3 | -4.3 |
|  | 27-30 | 2.9 | 2.6 | 3.0 | 3.0 | 6.4 | 7.7 | 6.3 | 7.9 | 8.8 | 7.8 | 6.8 | 5.2 | 7.5 | 5.0 | 8.1 | 7.8 | 7.2 | 8.3 | +1.1 |
| \% saying often exposed | 18 | 2.8 | 1.7 | 2.7 | 2.1 | 3.6 | 4.5 | 3.2 | 3.2 | 2.6 | 4.1 | 3.0 | 1.9 | 2.7 | 2.2 | 2.5 | 2.7 | 2.4 | 1.9 | -0.4 |
|  | 19-22 | 0.7 | 0.5 | 0.6 | 0.8 | 2.6 | 2.4 | 0.4 | 0.7 | 1.2 | 0.7 | 0.7 | 0.9 | 0.9 | 1.1 | 1.3 | 0.8 | * | 0.9 | +0.9 |
|  | 23-26 | 0.2 | * | * | 0.4 | 0.2 | 0.4 | * | * | 0.5 | * | 0.6 | 0.7 | 0.1 | 0.7 | 0.3 | 1.1 | 0.3 | 1.1 | +0.8 |
|  | 27-30 | 0.5 | * | 0.1 | * | 0.4 | * | * | 0.3 | 0.6 | * | 0.4 | 0.3 | 0.3 | 0.7 | 0.5 | 0.8 | 0.9 | 0.9 | 0.0 |

(List of drugs continued.)

TABLE 7-3 (cont.)
Trends in Exposure to Drug Use
among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

| Q. During the LAST 12 MONTHS how often have |  |  |  |  |  |  |  | Percen | age sa | ing exp | osed to | drug ${ }^{\text {a }}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| who were taking each of the following to get high or for "kicks"? | Age Group | 1980 | 1981 | 1982 | 1983 | 1984 | $\underline{1985}$ | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | $\underline{1994}$ | $\underline{1995}$ | $\underline{1996}$ | $\begin{aligned} & \text { (Years } \\ & \text { Cont.) } \end{aligned}$ |
| Cocaine |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 37.7 | 36.3 | 34.9 | 33.3 | 35.6 | 38.3 | 37.4 | 34.9 | 30.2 | 30.2 | 27.7 | 21.3 | 19.8 | 19.2 | 18.8 | 21.6 | 25.0 |  |
|  | 19-22 | 37.6 | 42.3 | 43.6 | 36.6 | 38.9 | 39.4 | 41.5 | 37.0 | 36.2 | 26.6 | 24.0 | 18.5 | 19.8 | 13.5 | 14.7 | 14.1 | 19.3 |  |
|  | 23-26 | - | - | - | - | 38.5 | 40.6 | 42.0 | 34.5 | 35.9 | 28.0 | 24.0 | 19.9 | 16.7 | 14.6 | 14.3 | 14.1 | 12.5 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 28.9 | 28.3 | 24.2 | 18.6 | 19.4 | 16.6 | 14.3 | 11.4 | 12.1 |  |
| \% saying often exposed | 18 | 5.9 | 6.6 | 6.6 | 5.2 | 6.7 | 7.1 | 7.8 | 5.9 | 5.1 | 5.4 | 4.7 | 3.4 | 2.7 | 2.9 | 2.5 | 3.2 | 4.0 |  |
|  | 19-22 | 5.8 | 7.6 | 6.5 | 4.3 | 6.5 | 7.0 | 5.4 | 5.2 | 4.8 | 4.3 | 2.2 | 1.6 | 1.7 | 1.7 | 1.8 | 1.7 | 1.2 |  |
|  | 23-26 | - | - | - | - | 5.3 | 8.5 | 7.0 | 6.0 | 5.4 | 3.5 | 2.5 | 1.7 | 1.4 | 1.7 | 1.0 | 1.7 | 1.3 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 4.4 | 3.9 | 2.9 | 2.2 | 2.0 | 1.2 | 1.5 | 1.4 | 1.9 |  |
| Heroin |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 7.4 | 6.6 | 7.1 | 5.1 | 6.0 | 5.5 | 6.0 | 5.8 | 5.7 | 6.5 | 5.4 | 5.1 | 5.4 | 5.7 | 7.3 | 7.9 | 8.6 |  |
|  | 19-22 | 4.4 | 3.3 | 4.1 | 2.9 | 3.1 | 4.8 | 2.9 | 2.9 | 2.9 | 2.9 | 2.5 | 3.0 | 2.7 | 2.0 | 3.7 | 3.8 | 3.6 |  |
|  | 23-26 | - | - | - | - | 2.3 | 3.3 | 3.2 | 2.9 | 1.7 | 2.3 | 2.3 | 1.8 | 1.7 | 1.5 | 1.9 | 2.8 | 2.9 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 2.1 | 1.4 | 1.5 | 0.9 | 1.0 | 2.0 | 2.0 | 1.7 | 1.5 |  |
| \% saying often exposed | 18 | 0.4 | 0.6 | 1.0 | 0.7 | 1.1 | 0.5 | 1.0 | 0.9 | 0.8 | 1.0 | 0.5 | 0.9 | 0.7 | 1.1 | 0.7 | 1.2 | 1.6 |  |
|  | 19-22 | 0.2 | 0.3 | 0.3 | 0.1 | 0.2 | 0.5 | 0.2 | 0.1 | 0.2 | 0.1 | 0.2 | 0.4 | 0.6 | 0.4 | 0.6 | 1.2 | 0.2 |  |
|  | 23-26 | - | - | - | - | * | 0.7 | 0.3 | 0.6 | 0.4 | 0.3 | 0.6 | 0.3 | * | * | * | 0.2 | 0.2 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 0.3 | 0.3 | 0.5 | 0.2 | 0.2 | 0.9 | 0.3 | 0.6 | 0.6 |  |
| Other narcotics ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 19.6 | 17.5 | 18.5 | 17.3 | 18.0 | 18.4 | 15.6 | 14.4 | 14.8 | 13.8 | 14.2 | 11.3 | 11.1 | 12.4 | 14.9 | 15.5 | 18.5 |  |
|  | 19-22 | 14.4 | 14.4 | 15.2 | 10.9 | 12.4 | 13.7 | 9.8 | 12.2 | 11.2 | 9.0 | 9.4 | 9.2 | 8.5 | 6.8 | 10.1 | 12.1 | 11.5 |  |
|  | 23-26 | - | - | - | - | 9.0 | 12.3 | 9.2 | 9.7 | 7.4 | 8.0 | 5.9 | 8.3 | 7.0 | 4.6 | 6.9 | 7.8 | 7.4 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 6.5 | 6.5 | 5.8 | 5.5 | 3.7 | 5.6 | 5.9 | 5.7 | 4.7 |  |
| \% saying often exposed | 18 | 1.7 | 1.7 | 2.4 | 2.2 | 2.0 | 1.8 | 2.1 | 1.7 | 1.7 | 1.7 | 1.6 | 1.4 | 1.3 | 1.7 | 1.7 | 2.1 | 3.4 |  |
|  | 19-22 | 0.7 | 0.5 | 0.5 | 0.9 | 0.7 | 1.0 | 0.5 | 0.4 | 0.9 | 0.3 | 0.2 | 1.0 | 0.9 | 0.6 | 0.8 | 1.4 | 0.7 |  |
|  | 23-26 | - | - | - | - | 0.4 | 0.5 | 1.3 | 0.8 | 0.8 | 0.5 | 1.6 | 0.7 | 0.1 | 0.3 | 0.1 | 0.1 | 0.3 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 0.7 | 0.5 | 1.0 | 0.3 | 0.8 | 1.2 | 0.8 | 0.8 | 0.7 |  |
| Amphetamines |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 40.8 | 49.5 | 50.2 | 46.1 | 45.0 | 41.0 | 36.5 | 31.7 | 27.9 | 27.4 | 28.3 | 23.6 | 24.5 | 24.7 | 28.2 | 28.1 | 31.5 |  |
|  | 19-22 | 42.3 | 48.6 | 48.4 | 39.7 | 41.3 | 35.9 | 31.3 | 26.7 | 21.2 | 18.5 | 19.5 | 17.4 | 21.3 | 15.1 | 20.3 | 21.0 | 22.3 |  |
|  | 23-26 | - | - | - | - | 32.3 | 30.5 | 29.1 | 20.9 | 18.8 | 14.0 | 16.8 | 14.6 | 11.8 | 13.2 | 11.2 | 13.0 | 11.1 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 15.6 | 14.3 | 13.5 | 10.7 | 11.4 | 11.3 | 11.0 | 10.6 | 7.6 |  |
| \% saying often exposed | 18 | 8.3 | 12.1 | 12.3 | 10.1 | 9.0 | 6.5 | 5.8 | 4.5 | 4.1 | 4.7 | 4.1 | 3.1 | 3.0 | 3.9 | 4.1 | 4.5 | 5.6 |  |
|  | 19-22 | 7.4 | 9.9 | 7.7 | 6.9 | 5.4 | 4.4 | 3.1 | 3.3 | 2.2 | 1.5 | 1.1 | 1.9 | 2.6 | 1.5 | 3.3 | 5.0 | 1.3 |  |
|  | 23-26 | - | - | - | - | 3.9 | 3.2 | 2.2 | 3.3 | 1.9 | 0.7 | 2.0 | 1.3 | 0.2 | 0.8 | 0.9 | 1.6 | 1.3 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 2.0 | 2.0 | 1.2 | 0.8 | 0.8 | 1.3 | 0.7 | 1.6 | 1.8 |  |

(Table continued on next page.)

## TABLE 7-3 (cont.)

Trends in Exposure to Drug Use among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

| Q. During the LAST 12 MONTHS how often have |  |  |  |  |  |  |  |  | rcentage | saying | exposed | to drug |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| who were taking each of the following to get high or for "kicks"? | Age Group | $\underline{1997}$ | 1998 | $\underline{1999}$ | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \end{gathered}$ |
| Cocaine |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 25.6 | 26.6 | 25.8 | 24.2 | 24.5 | 24.9 | 24.8 | 24.4 | 25.7 | 28.2 | 25.2 | 24.1 | 20.0 | 20.0 | 19.3 | 17.4 | 16.7 | 17.6 | +0.9 |
|  | 19-22 | 18.8 | 21.6 | 18.5 | 19.1 | 20.6 | 22.5 | 18.4 | 23.6 | 22.7 | 22.9 | 22.5 | 22.7 | 18.6 | 17.8 | 15.5 | 18.9 | 11.5 | 17.6 | +6.1 s |
|  | 23-26 | 14.0 | 16.0 | 18.2 | 16.4 | 16.9 | 18.3 | 17.4 | 18.7 | 19.2 | 19.3 | 19.0 | 18.2 | 15.3 | 14.7 | 20.5 | 17.2 | 14.4 | 15.6 | +1.3 |
|  | 27-30 | 11.4 | 8.6 | 11.6 | 10.2 | 11.6 | 12.2 | 12.6 | 13.0 | 15.8 | 16.0 | 14.1 | 14.8 | 13.2 | 11.4 | 13.1 | 14.2 | 15.0 | 12.1 | -2.9 |
| \% saying often exposed | 18 | 4.2 | 3.7 | 4.6 | 4.6 | 4.5 | 5.3 | 5.0 | 4.7 | 4.2 | 5.3 | 4.6 | 3.6 | 2.6 | 2.1 | 2.3 | 2.8 | 2.1 | 2.2 | +0.1 |
|  | 19-22 | 2.4 | 3.2 | 1.4 | 3.8 | 3.0 | 4.1 | 1.6 | 2.6 | 4.0 | 2.6 | 1.8 | 2.6 | 2.6 | 0.7 | 1.2 | 3.2 | 1.7 | 2.4 | +0.6 |
|  | 23-26 | 1.8 | 1.5 | 2.2 | 1.8 | 1.0 | 2.5 | 1.9 | 2.9 | 1.8 | 2.0 | 3.2 | 1.0 | 1.0 | 1.2 | 1.4 | 2.0 | 1.0 | 2.1 | +1.1 |
|  | 27-30 | 1.6 | 0.8 | 1.5 | 0.3 | 1.6 | 2.4 | 1.7 | 0.7 | 2.4 | 0.8 | 0.7 | 1.4 | 0.8 | 0.1 | 1.4 | 0.8 | 1.6 | 1.8 | +0.2 |
| Heroin |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 9.1 | 8.7 | 8.1 | 9.1 | 8.7 | 8.3 | 7.3 | 6.6 | 7.3 | 9.0 | 8.6 | 6.8 | 7.3 | 8.3 | 6.4 | 6.0 | 6.6 | 5.2 | -1.4 |
|  | 19-22 | 3.7 | 6.4 | 3.2 | 5.2 | 3.2 | 5.3 | 3.4 | 3.0 | 3.2 | 3.7 | 3.3 | 4.8 | 4.3 | 3.2 | 4.0 | 3.6 | 3.4 | 3.6 | +0.3 |
|  | 23-26 | 2.7 | 3.1 | 2.9 | 2.6 | 2.4 | 3.8 | 2.0 | 3.1 | 2.6 | 3.5 | 3.6 | 1.8 | 1.8 | 4.1 | 4.8 | 2.4 | 2.3 | 2.4 | +0.1 |
|  | 27-30 | 1.3 | 1.4 | 1.9 | 1.9 | 2.3 | 2.7 | 1.3 | 3.2 | 2.9 | 2.3 | 3.0 | 2.2 | 1.9 | 1.5 | 3.5 | 3.0 | 3.9 | 5.3 | +1.4 |
| \% saying often exposed | 18 | 1.2 | 0.9 | 1.3 | 1.5 | 0.7 | 1.3 | 1.2 | 1.2 | 0.8 | 1.7 | 1.1 | 0.8 | 0.8 | 1.0 | 1.1 | 1.3 | 0.7 | 0.7 | 0.0 |
|  | 19-22 | 0.4 | 0.7 | 0.8 | 0.7 | 0.8 | 0.6 | 0.2 | * | 0.8 | 0.1 | * | 0.6 | * | 0.4 | 0.7 | 1.0 | 1.0 | 0.9 | -0.1 |
|  | 23-26 | 0.3 | 0.5 | 1.0 | * | * | 0.8 | 0.5 | 0.5 | 0.3 | 0.6 | 0.3 | * | * | 1.2 | 0.3 | 0.2 | * | 0.3 | +0.3 |
|  | 27-30 | * | * | 0.2 | * | * | 0.7 | 0.3 | * | 0.4 | 0.3 | 0.4 | 0.3 | 0.6 | * | 1.2 | 0.7 | 1.3 | 0.5 | $-0.7$ |
| Other narcotics ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 20.4 | 20.7 | 21.9 | 21.1 | 21.6 | 22.5 | 21.8 | 20.3 | 19.0 | 18.9 | 18.9 | 16.3 | 16.3 | 30.3 | 27.5 | 27.1 | 22.9 | 20.9 | -2.0 |
|  | 19-22 | 14.5 | 15.3 | 13.9 | 17.0 | 18.3 | 18.7 | 13.6 | 14.5 | 16.8 | 15.3 | 12.5 | 13.2 | 14.2 | 27.5 | 23.7 | 25.2 | 19.5 | 21.3 | +1.8 |
|  | 23-26 | 6.5 | 8.1 | 9.4 | 10.9 | 12.2 | 12.0 | 12.6 | 12.6 | 12.4 | 13.0 | 14.4 | 11.2 | 13.2 | 25.9 | 25.3 | 24.1 | 22.5 | 17.8 | -4.7 |
|  | 27-30 | 4.9 | 3.6 | 5.2 | 6.5 | 9.0 | 7.9 | 9.5 | 8.8 | 11.6 | 10.6 | 9.2 | 9.1 | 9.7 | 23.4 | 22.7 | 23.6 | 24.5 | 19.4 | -5.1 |
| \% saying often exposed | 18 | 2.5 | 2.8 | 3.9 | 2.9 | 3.0 | 3.8 | 3.0 | 3.3 | 2.6 | 3.4 | 3.4 | 2.1 | 2.7 | 5.3 | 5.6 | 5.7 | 3.8 | 3.6 | -0.2 |
|  | 19-22 | 1.5 | 1.7 | 1.1 | 2.4 | 1.6 | 3.0 | 1.2 | 0.8 | 2.4 | 1.9 | 1.7 | 1.9 | 1.6 | 3.3 | 2.1 | 1.6 | 2.2 | 2.0 | -0.1 |
|  | 23-26 | 0.7 | 0.5 | 1.1 | 0.7 | 1.0 | 0.9 | 1.6 | 1.4 | 1.3 | 1.1 | 1.8 | 1.0 | 1.3 | 4.4 | 2.5 | 3.6 | 1.5 | 2.3 | +0.7 |
|  | 27-30 | 0.5 | * | 0.2 | 1.1 | 1.0 | 0.7 | 1.2 | 0.1 | 1.7 | 0.7 | 0.8 | 0.4 | 1.4 | 3.0 | 3.1 | 2.3 | 3.1 | 2.6 | -0.4 |
| Amphetamines ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 31.0 | 29.9 | 30.1 | 29.5 | 31.5 | 30.6 | 27.4 | 27.2 | 26.4 | 26.6 | 23.8 | 23.3 | 23.8 | 23.6 | 28.0 | 26.2 | 25.4 | 23.7 | -1.6 |
|  | 19-22 | 24.6 | 24.8 | 21.2 | 24.8 | 23.3 | 25.5 | 21.6 | 23.7 | 22.2 | 22.7 | 22.8 | 17.6 | 18.0 | 19.4 | 26.0 | 27.4 | 26.2 | 30.4 | +4.2 |
|  | 23-26 | 11.7 | 14.6 | 12.3 | 18.5 | 18.2 | 17.9 | 15.4 | 18.8 | 15.6 | 18.7 | 16.6 | 13.7 | 15.3 | 15.8 | 24.2 | 23.1 | 21.4 | 22.0 | +0.6 |
|  | 27-30 | 9.1 | 6.6 | 10.4 | 7.4 | 11.1 | 11.5 | 12.2 | 11.4 | 12.2 | 14.1 | 10.0 | 10.3 | 10.3 | 12.6 | 16.4 | 19.0 | 19.1 | 17.7 | -1.4 |
| \% saying often exposed | 18 | 5.2 | 4.7 | 6.3 | 4.4 | 6.0 | 6.4 | 4.9 | 5.3 | 4.1 | 5.6 | 4.3 | 3.0 | 4.3 | 3.3 | 6.1 | 5.7 | 5.3 | 5.7 | +0.5 |
|  | 19-22 | 4.1 | 2.9 | 2.2 | 2.4 | 2.6 | 5.6 | 1.7 | 4.1 | 3.1 | 2.9 | 2.3 | 2.1 | 3.0 | 3.9 | 3.3 | 5.5 | 3.7 | 6.8 | +3.1 |
|  | 23-26 | 1.4 | 2.2 | 1.7 | 1.4 | 2.2 | 0.7 | 1.3 | 1.7 | 1.6 | 2.6 | 1.6 | 1.8 | 1.1 | 1.6 | 3.1 | 4.1 | 3.2 | 3.6 | +0.4 |
|  | 27-30 | 1.0 | 0.2 | 1.1 | 0.4 | 0.6 | 1.5 | 1.0 | 1.2 | 1.0 | 0.8 | 1.1 | 0.3 | 0.7 | 0.6 | 1.7 | 3.0 | 2.7 | 2.0 | -0.6 |

TABLE 7-3 (cont.)
Trends in Exposure to Drug Use
among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

| Q. During the LAST 12 MONTHS how often have you been around people who were taking each of the following to get high or for "kicks"? |  | Percentage saying exposed to drug ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Age Group | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | (Years Cont.) |
| Sedatives/barbiturates ${ }^{\text {e }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 25.2 | 25.9 | 25.7 | 22.5 | 21.2 | 18.9 | 15.8 | 13.1 | 12.4 | 11.8 | 13.3 | 10.0 | 10.2 | 11.9 | 13.0 | 14.5 | 15.5 |  |
|  | 19-22 | 25.6 | 23.1 | 21.8 | 18.3 | 15.7 | 14.7 | 12.8 | 12.0 | 8.2 | 8.3 | 6.5 | 7.9 | 7.3 | 7.2 | 7.4 | 10.1 | 8.8 |  |
|  | 23-26 | - | - | - | - | 16.1 | 13.1 | 11.0 | 7.1 | 7.1 | 6.6 | 6.9 | 5.9 | 6.5 | 3.8 | 4.2 | 5.7 | 6.6 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 8.0 | 6.8 | 5.9 | 5.4 | 5.2 | 5.7 | 4.5 | 5.2 | 3.5 |  |
| \% saying often exposed | 18 | 3.4 | 4.0 | 4.3 | 3.0 | 2.7 | 1.7 | 2.1 | 1.5 | 1.4 | 1.7 | 1.7 | 1.2 | 1.1 | 1.6 | 1.7 | 2.0 | 2.9 |  |
|  | 19-22 | 2.5 | 2.8 | 1.1 | 1.4 | 0.7 | 1.3 | 0.5 | 0.7 | 0.7 | 0.3 | 0.7 | 0.4 | 0.7 | 0.7 | 1.3 | 1.3 | 0.4 |  |
|  | 23-26 | - | - | - | - | 0.7 | 0.9 | 1.7 | 0.8 | 0.6 | 0.3 | 1.1 | 0.3 | 0.3 | * | * | 0.2 | 0.3 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 0.7 | 0.4 | 0.6 | 0.2 | 0.4 | 1.2 | 0.2 | 0.6 | 0.5 |  |
| Tranquilizers ${ }^{\dagger}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 29.1 | 29.0 | 26.6 | 23.5 | 23.1 | 23.4 | 19.6 | 18.4 | 18.2 | 15.1 | 16.3 | 14.2 | 12.7 | 13.8 | 16.5 | 15.7 | 17.9 |  |
|  | 19-22 | 29.6 | 26.9 | 28.5 | 19.5 | 21.2 | 19.5 | 16.4 | 18.5 | 13.8 | 12.0 | 12.7 | 12.6 | 11.0 | 10.0 | 12.0 | 11.8 | 10.7 |  |
|  | 23-26 | - | - | - | - | 23.1 | 21.0 | 16.9 | 15.9 | 13.4 | 12.9 | 12.0 | 10.4 | 9.7 | 10.9 | 9.8 | 10.3 | 10.1 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 15.0 | 11.6 | 11.1 | 9.7 | 10.3 | 10.4 | 9.0 | 11.2 | 9.6 |  |
| \% saying often exposed | 18 | 3.2 | 4.2 | 3.5 | 2.9 | 2.9 | 2.2 | 2.5 | 2.6 | 2.2 | 2.1 | 1.9 | 1.4 | 1.9 | 1.7 | 1.8 | 2.3 | 3.5 |  |
|  | 19-22 | 3.2 | 2.6 | 1.8 | 2.1 | 1.5 | 1.7 | 0.9 | 1.1 | 1.8 | 1.0 | 1.1 | 1.1 | 1.5 | 1.1 | 1.3 | 1.5 | 0.5 |  |
|  | 23-26 | - | - | - | - | 2.0 | 1.6 | 2.6 | 1.8 | 1.2 | 0.8 | 0.5 | 1.0 | 0.6 | 0.7 | 0.1 | 1.1 | 1.5 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 1.4 | 0.3 | 1.7 | 0.8 | 1.3 | 1.3 | 1.0 | 1.1 | 0.8 |  |
| Alcoholic beverages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 94.7 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.1 | 93.9 | 93.1 | 92.3 | 93.6 | 91.7 | 90.6 | 91.8 | 90.0 | 91.2 | 91.5 |  |
|  | 19-22 | 94.3 | 93.8 | 94.5 | 93.4 | 94.2 | 92.7 | 93.6 | 94.4 | 92.5 | 91.8 | 92.4 | 94.0 | 93.3 | 92.9 | 93.7 | 93.1 | 93.7 |  |
|  | 23-26 | - | - | - | - | 90.3 | 92.7 | 91.4 | 90.6 | 91.1 | 92.9 | 91.3 | 91.0 | 91.4 | 90.3 | 89.5 | 91.9 | 89.6 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 87.1 | 88.4 | 86.2 | 87.7 | 87.3 | 86.6 | 86.2 | 89.3 | 89.2 |  |
| \% saying often exposed | 18 | 60.2 | 61.0 | 59.3 | 60.2 | 58.7 | 59.5 | 58.0 | 58.7 | 56.4 | 55.5 | 56.1 | 54.5 | 53.1 | 51.9 | 54.0 | 54.0 | 54.5 |  |
|  | 19-22 | 59.6 | 61.2 | 62.5 | 56.6 | 59.3 | 61.8 | 59.9 | 61.4 | 55.4 | 53.8 | 56.0 | 53.9 | 56.1 | 56.8 | 57.0 | 56.3 | 52.3 |  |
|  | 23-26 | - | - | - | - | 52.1 | 54.8 | 51.4 | 53.0 | 48.1 | 50.9 | 49.7 | 48.4 | 45.4 | 45.4 | 43.3 | 47.5 | 44.8 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 39.9 | 39.5 | 38.7 | 38.0 | 39.9 | 38.1 | 39.3 | 38.0 | 34.7 |  |
| Approximate | 18 | 3,259 | 3,608 | 3,645 | 3,334 | 3,238 | 3,252 | 3,078 | 3,296 | 3,300 | 2,795 | 2,556 | 2,525 | 2,630 | 2,730 | 2,581 | 2,608 | 2,407 |  |
| Weighted $N=$ | 19-22 | 582 | 574 | 601 | 569 | 578 | 549 | 591 | 582 | 556 | 567 | 567 | 532 | 528 | 489 | 460 | 464 | 485 |  |
|  | 23-26 |  |  |  |  | 533 | 532 | 557 | 529 | 531 | 514 | 523 | 494 | 532 | 513 | 471 | 467 | 447 |  |
|  | 27-30 |  |  |  |  |  |  |  |  | 522 | 507 | 506 | 478 | 502 | 457 | 425 | 452 | 432 |  |

## TABLE 7-3 (cont.)

Trends in Exposure to Drug Use among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30

| Q. During the LAST 12 MONTHS how often have |  | Percentage saying exposed to drug ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| who were taking each of the following to get high or for "kicks"? | Age Group | 1997 | 1998 | $\underline{1999}$ | 2000 | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | 2004 | $\underline{2005}$ | 2006 | $\underline{2007}$ | 2008 | $\underline{2009}$ | 2010 | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | 2014 |  |
| Sedatives/barbiturates ${ }^{\dagger}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 16.1 | 16.1 | 17.1 | 16.3 | 17.1 | 17.7 | 14.8 | 21.5 | 20.4 | 21.3 | 18.8 | 16.7 | 17.6 | 18.8 | 16.2 | 16.0 | 15.0 | 13.4 | -1.6 |
|  | 19-22 | 11.7 | 13.4 | 11.6 | 13.1 | 13.1 | 16.0 | 11.9 | 17.2 | 17.8 | 16.0 | 16.1 | 15.2 | 17.3 | 16.1 | 12.2 | 14.8 | 10.7 | 14.2 | +3.5 |
|  | 23-26 | 4.9 | 8.5 | 7.1 | 9.3 | 9.0 | 9.8 | 7.9 | 15.9 | 12.5 | 14.8 | 13.1 | 12.4 | 12.7 | 13.4 | 15.2 | 14.9 | 10.6 | 11.9 | +1.2 |
|  | 27-30 | 3.8 | 2.7 | 4.1 | 2.9 | 5.3 | 6.0 | 6.1 | 9.2 | 12.4 | 11.9 | 10.3 | 10.1 | 9.9 | 11.6 | 10.4 | 11.7 | 10.1 | 11.8 | +1.7 |
| \% saying often exposed | 18 | 2.5 | 2.7 | 3.8 | 2.7 | 2.7 | 4.6 | 2.8 | 4.1 | 3.7 | 3.9 | 3.9 | 2.1 | 3.4 | 2.5 | 3.1 | 2.9 | 2.5 | 2.3 | -0.2 |
|  | 19-22 | 0.9 | 1.4 | 0.9 | 1.6 | 1.2 | 1.8 | 0.8 | 1.7 | 2.1 | 2.5 | 1.4 | 2.2 | 1.9 | 0.9 | 1.2 | 1.7 | 1.0 | 1.5 | +0.5 |
|  | 23-26 | 0.8 | 0.5 | 0.9 | 0.7 | 0.2 | 0.3 | 0.4 | 0.7 | 1.1 | 1.1 | 1.6 | 1.7 | 0.7 | 1.0 | 1.0 | 1.5 | 0.8 | 1.3 | +0.5 |
|  | 27-30 | 0.2 | * | 0.6 | 0.2 | 0.9 | 0.4 | 0.6 | 0.4 | 1.7 | 0.7 | 1.3 | 0.4 | 1.7 | 0.9 | 1.3 | 1.1 | 2.0 | 0.6 | -1.4 |
| Tranquilizers ${ }^{\text {g }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \% saying any | 18 | 18.9 | 17.3 | 18.2 | 17.7 | 23.8 | 22.7 | 21.0 | 22.1 | 20.9 | 21.8 | 19.3 | 19.9 | 20.0 | 18.2 | 17.0 | 17.6 | 16.4 | 16.0 | -0.4 |
|  | 19-22 | 15.6 | 16.9 | 14.3 | 18.5 | 21.3 | 23.6 | 20.0 | 21.9 | 20.6 | 23.1 | 21.4 | 20.0 | 19.6 | 18.1 | 16.6 | 19.0 | 13.3 | 18.3 | +5.0 |
|  | 23-26 | 9.4 | 10.9 | 10.8 | 12.3 | 16.4 | 20.1 | 18.7 | 19.9 | 20.1 | 19.9 | 18.8 | 18.4 | 17.5 | 21.4 | 19.6 | 21.0 | 19.5 | 15.5 | -4.0 |
|  | 27-30 | 9.6 | 6.1 | 8.8 | 7.6 | 12.6 | 13.6 | 15.3 | 14.6 | 18.1 | 19.2 | 16.7 | 16.8 | 13.5 | 18.6 | 16.5 | 19.5 | 17.5 | 16.3 | -1.2 |
| \% saying often exposed | 18 | 3.2 | 2.8 | 3.7 | 3.5 | 4.9 | 5.8 | 4.2 | 4.1 | 4.5 | 5.4 | 4.9 | 3.7 | 3.9 | 2.8 | 3.4 | 3.3 | 3.4 | 3.4 | 0.0 |
|  | 19-22 | 1.3 | 1.6 | 1.5 | 1.7 | 3.1 | 3.6 | 2.3 | 2.7 | 2.7 | 3.2 | 3.0 | 3.2 | 2.1 | 1.7 | 2.9 | 2.0 | 1.7 | 2.3 | +0.5 |
|  | 23-26 | 0.7 | 1.1 | 1.5 | 1.7 | 1.3 | 2.1 | 1.6 | 2.0 | 1.3 | 2.6 | 2.4 | 3.6 | 1.5 | 3.2 | 2.6 | 2.5 | 1.6 | 1.8 | +0.2 |
|  | 27-30 | 1.2 | 0.2 | 0.9 | 0.4 | 1.6 | 1.6 | 1.9 | 0.8 | 3.5 | 2.9 | 2.6 | 1.0 | 2.0 | 1.7 | 2.0 | 2.3 | 1.8 | 1.9 | +0.1 |
| Alcoholic beverages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 18 | 91.4 | 92.2 | 91.8 | 90.7 | 90.8 | 89.5 | 88.3 | 87.6 | 87.4 | 87.6 | 86.5 | 85.7 | 86.5 | 85.2 | 85.0 | 85.3 | 84.8 | 82.1 | -2.7 |
|  | 19-22 | 93.1 | 91.8 | 91.0 | 93.3 | 94.3 | 93.7 | 93.6 | 92.5 | 92.7 | 92.0 | 91.8 | 90.5 | 91.2 | 86.5 | 87.5 | 85.8 | 82.8 | 89.7 | +6.9 s |
|  | 23-26 | 93.1 | 89.1 | 91.5 | 92.1 | 90.1 | 91.9 | 91.8 | 92.2 | 90.0 | 94.0 | 94.5 | 92.0 | 93.0 | 91.1 | 94.2 | 88.7 | 88.7 | 82.7 | -6.0 s |
|  | 27-30 | 86.4 | 88.4 | 88.7 | 89.8 | 91.2 | 89.0 | 90.0 | 85.3 | 92.2 | 91.8 | 89.6 | 94.4 | 91.0 | 91.2 | 92.5 | 90.5 | 88.8 | 85.6 | -3.1 |
| \% saying often exposed | 18 | 53.9 | 54.5 | 53.5 | 50.2 | 52.7 | 50.8 | 49.0 | 48.2 | 49.1 | 47.8 | 46.4 | 45.4 | 46.3 | 45.8 | 40.7 | 43.0 | 41.7 | 40.3 | -1.4 |
|  | 19-22 | 54.2 | 57.9 | 54.7 | 54.3 | 53.4 | 54.9 | 55.7 | 54.3 | 58.9 | 55.0 | 60.7 | 53.9 | 53.4 | 48.5 | 46.0 | 50.6 | 45.3 | 49.5 | +4.2 |
|  | 23-26 | 49.8 | 44.6 | 45.7 | 49.6 | 48.8 | 46.3 | 50.5 | 48.3 | 46.4 | 57.1 | 54.2 | 49.6 | 53.8 | 51.3 | 52.5 | 55.6 | 49.3 | 44.4 | -4.9 |
|  | 27-30 | 37.1 | 36.6 | 38.3 | 34.4 | 40.0 | 39.6 | 40.6 | 36.8 | 43.6 | 47.3 | 44.3 | 47.8 | 45.2 | 43.0 | 49.3 | 50.4 | 48.1 | 47.7 | -0.4 |
| Approximate Weighted $N=$ | 18 | 2,595 | 2,541 | 2,312 | 2,153 | 2,147 | 2,162 | 2,454 | 2,456 | 2,469 | 2,469 | 2,448 | 2,332 | 2,274 | 2,434 | 2,372 | 2,299 | 2,150 | 2,075 |  |
|  | 19-22 | 471 | 445 | 450 | 415 | 412 | 403 | 396 | 432 | 377 | 378 | 333 | 365 | 368 | 364 | 340 | 356 | 281 | 316 |  |
|  | 23-26 | 424 | 400 | 398 | 389 | 406 | 345 | 385 | 404 | 374 | 363 | 327 | 333 | 328 | 347 | 308 | 334 | 311 | 308 |  |
|  | 27-30 | 455 | 449 | 430 | 395 | 369 | 359 | 347 | 370 | 370 | 330 | 356 | 339 | 324 | 336 | 306 | 312 | 301 | 303 |  |

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent years: $\mathrm{s}=.05, \mathrm{ss}=.01$, $\mathrm{sss}=.001$. Any apparent inconsistency between
the change estimate and the prevalence estimates for the two most recent years is due to rounding. ' - ' indicates data not available.
' *' indicates a prevalence rate of less than $0.05 \%$.
${ }^{2}$ Answer alternatives were: (1) Not at all, (2) Once or twice, (3) Occasionally, (4) Often. The "any" percentage combines categories (2)-(4).
${ }^{\mathrm{b}}$ These estimates were derived from responses to the question for the following drugs: marijuana, LSD, other hallucinogens, cocaine, heroin or other narcotics, amphetamines, sedatives (barbiturates), and tranquilizers.
${ }^{\text {c In }} 2001$ the question text was changed from other psychedelics to other hallucinogens, and shrooms was added to the list of examples. These changes likely explain the discontinuity in the 2001 results.
${ }^{d}$ In 2010 the list of examples for narcotics other than heroin was changed from methadone, opium to Vicodin, OxyContin, Percocet, etc. This change likely explains the discontinuity in the 2010 results.
${ }^{e}$ In 2011 pep pills and bennies were replaced in the list of examples by Adderall and Ritalin. This change likely explains the discontinuity in the 2011 results.
${ }^{\prime}$ In 2004 the question text was changed from barbiturates to sedatives/barbiturates and the list of examples was changed from downers, goofballs, reds, yellows, etc. to just downers. These changes likely explain the discontinuity in the 2004 results.
${ }^{g}$ In 2001 Xanax was added to the list of examples. This change likely explains the discontinuity in the 2001 results.

TABLE 7-4
Trends in Availability of Drugs as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

| Q. How difficult do you |  |  |  |  |  |  | Percen | ntage sa | aying fa | irly easy | or very | easy to | get ${ }^{\text {a }}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| following types of drugs, if you wanted some? | Age <br> Group | 1980 | 1981 | 1982 | $\underline{1983}$ | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | (Years Cont.) |
| Marijuana | 18 | 89.0 | 89.2 | 88.5 | 86.2 | 84.6 | 85.5 | 85.2 | 84.8 | 85.0 | 84.3 | 84.4 | 83.3 | 82.7 | 83.0 | 85.5 | 88.5 | 88.7 |  |
|  | 19-22 | 95.6 | 91.1 | 92.4 | 89.7 | 88.3 | 89.5 | 87.2 | 85.9 | 87.1 | 87.1 | 86.2 | 86.0 | 87.8 | 85.6 | 87.2 | 87.9 | 89.3 |  |
|  | 23-26 | - | - | - | - | 92.5 | 88.8 | 88.8 | 90.3 | 86.9 | 88.7 | 83.3 | 82.5 | 83.8 | 84.6 | 87.1 | 86.2 | 85.3 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 89.3 | 86.0 | 83.1 | 83.8 | 80.7 | 82.8 | 80.3 | 83.3 | 82.6 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 75.7 | 75.6 | 73.0 |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Amyl \& butyl nitrites | 18 | - | - | - | - | - | - | - | 23.9 | 25.9 | 26.8 | 24.4 | 22.7 | 25.9 | 25.9 | 26.7 | 26.0 | 23.9 |  |
|  | 19-22 | - | - | - | - | - | - | - | 22.8 | 26.0 | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | 23.1 | 28.0 | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 26.7 | - | - | - | - | - | - | - | - |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| LSD | 18 | 35.3 | 35.0 | 34.2 | 30.9 | 30.6 | 30.5 | 28.5 | 31.4 | 33.3 | 38.3 | 40.7 | 39.5 | 44.5 | 49.2 | 50.8 | 53.8 | 51.3 |  |
|  | 19-22 | 39.6 | 38.4 | 35.1 | 31.8 | 32.7 | 29.6 | 30.5 | 29.9 | 33.9 | 36.4 | 36.6 | 37.8 | 42.5 | 44.9 | 43.7 | 50.5 | 50.8 |  |
|  | 23-26 | - | - | - | - | 32.7 | 29.1 | 30.0 | 27.5 | 32.7 | 32.6 | 30.2 | 32.8 | 33.5 | 33.4 | 40.1 | 41.0 | 43.6 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 29.4 | 29.9 | 32.3 | 27.0 | 30.9 | 30.5 | 27.2 | 35.6 | 33.6 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 33.8 | 32.4 | 28.4 |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other | 18 | 35.0 | 32.7 | 30.6 | 26.6 | 26.6 | 26.1 | 24.9 | 25.0 | 26.2 | 28.2 | 28.3 | 28.0 | 29.9 | 33.5 | 33.8 | 35.8 | 33.9 |  |
| hallucinogens ${ }^{\text {b }}$ | 19-22 | 42.1 | 37.7 | 33.5 | 31.0 | 28.9 | 28.7 | 26.3 | 27.5 | 28.7 | 28.1 | 28.9 | 26.6 | 28.3 | 29.5 | 28.6 | 31.5 | 31.5 |  |
|  | 23-26 | - | - | - | - | 31.8 | 29.6 | 26.4 | 25.6 | 29.6 | 28.7 | 27.0 | 25.7 | 27.7 | 25.3 | 28.3 | 29.2 | 32.6 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 28.6 | 29.6 | 30.8 | 24.9 | 24.8 | 25.4 | 24.7 | 29.3 | 25.9 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PCP | 18 | - | - | - | - | - | - | - | 22.8 | 24.9 | 28.9 | 27.7 | 27.6 | 31.7 | 31.7 | 31.4 | 31.0 | 30.5 |  |
|  | 19-22 | - | - | - | - | - | - | - | 21.7 | 24.6 | - | - | - | - | - | - | - | - |  |
|  | 23-26 | - | - | - | - | - | - | - | 21.2 | 27.6 | - | - | - | - | - | - | - | - |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 24.3 | - | - | - | - | - | - | - | - |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ecstasy (MDMA) | 18 | - | - | - | - | - | - | - | - | - | 21.7 | 22.0 | 22.1 | 24.2 | 28.1 | 31.2 | 34.2 | 36.9 |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | 26.6 | 24.9 | 27.1 | 23.9 | 27.0 | 29.3 | 33.4 |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | 21.4 | 23.1 | 26.4 | 24.0 | 26.0 | 27.8 | 28.7 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | 27.1 | 20.8 | 22.2 | 22.8 | 21.9 | 27.1 | 29.3 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |

TABLE 7-4 (cont.)
Trends in Availability of Drugs as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, 50, and 55

| Q. How difficult do you |  |  |  |  |  |  |  | ercenta | ge sayin | g fairly | easy or | very eas | y to get |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| types of drugs, if you wanted some? | $\begin{gathered} \text { Age } \\ \text { Group } \end{gathered}$ | 1997 | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | 2014 | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \end{gathered}$ |
| Marijuana | 18 | 89.6 | 90.4 | 88.9 | 88.5 | 88.5 | 87.2 | 87.1 | 85.8 | 85.6 | 84.9 | 83.9 | 83.9 | 81.1 | 82.1 | 82.2 | 81.6 | 81.4 | 81.3 | 0.0 |
|  | 19-22 | 90.6 | 89.9 | 87.4 | 89.6 | 91.7 | 88.1 | 87.7 | 87.3 | 88.0 | 86.8 | 88.4 | 87.5 | 83.0 | 84.2 | 82.9 | 85.4 | 83.9 | 85.7 | +1.9 |
|  | 23-26 | 84.4 | 87.5 | 85.9 | 88.4 | 87.0 | 89.1 | 87.2 | 88.8 | 87.0 | 86.8 | 87.6 | 85.3 | 89.4 | 83.3 | 88.3 | 87.0 | 87.4 | 87.7 | +0.3 |
|  | 27-30 | 84.5 | 82.1 | 83.0 | 81.5 | 84.8 | 83.6 | 81.8 | 86.0 | 84.6 | 87.6 | 87.8 | 86.4 | 88.9 | 84.6 | 85.6 | 85.1 | 86.8 | 86.4 | -0.4 |
|  | 35 | 77.1 | 76.0 | 74.9 | 77.1 | 75.3 | 76.5 | 75.1 | 75.6 | 73.8 | 75.1 | 75.5 | 76.4 | 75.7 | 75.6 | 80.4 | 80.5 | 80.2 | 84.4 | +4.2 s |
|  | 40 | - | 73.4 | 71.7 | 73.1 | 70.4 | 72.1 | 72.3 | 68.9 | 73.6 | 69.7 | 71.2 | 72.5 | 72.9 | 73.6 | 74.6 | 74.6 | 78.8 | 76.0 | -2.8 |
|  | 45 | - | - | - | - | - | - | 68.5 | 69.9 | 70.1 | 67.9 | 70.1 | 68.1 | 67.9 | 73.4 | 69.8 | 71.8 | 73.6 | 76.9 | +3.3 |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 64.4 | 65.8 | 67.9 | 65.8 | 68.9 | 70.1 | 71.9 | +1.8 |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 68.8 | 72.1 | +3.3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Amyl \& butyl nitrites | 18 | 23.8 | 25.1 | 21.4 | 23.3 | 22.5 | 22.3 | 19.7 | 20.0 | 19.7 | 18.4 | 18.1 | 16.9 | 15.7 | - | - | - | - | - | - |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LSD | 18 | 50.7 | 48.8 | 44.7 | 46.9 | 44.7 | 39.6 | 33.6 | 33.1 | 28.6 | 29.0 | 28.7 | 28.5 | 26.3 | 25.1 | 25.1 | 27.6 | 24.5 | 25.9 | +1.4 |
|  | 19-22 | 47.7 | 51.1 | 43.8 | 47.1 | 42.5 | 37.9 | 34.1 | 30.3 | 27.7 | 29.0 | 23.0 | 19.7 | 24.2 | 26.1 | 24.8 | 23.2 | 26.2 | 22.3 | -3.8 |
|  | 23-26 | 39.2 | 40.4 | 41.2 | 40.4 | 38.3 | 37.2 | 34.1 | 38.5 | 26.5 | 30.3 | 25.2 | 24.1 | 26.1 | 24.2 | 21.4 | 19.3 | 22.8 | 17.2 | -5.6 |
|  | 27-30 | 35.2 | 32.9 | 35.7 | 35.6 | 38.3 | 32.3 | 33.5 | 30.0 | 29.3 | 29.7 | 26.8 | 28.1 | 22.5 | 25.2 | 26.6 | 19.1 | 21.7 | 21.1 | -0.6 |
|  | 35 | 32.9 | 31.2 | 27.7 | 32.2 | 28.7 | 29.1 | 29.8 | 25.6 | 24.0 | 28.7 | 26.6 | 26.4 | 26.9 | 25.5 | 24.0 | 23.0 | 24.1 | 22.2 | -1.8 |
|  | 40 | - | 31.1 | 31.0 | 28.5 | 25.7 | 27.4 | 25.0 | 24.4 | 24.3 | 23.9 | 21.5 | 25.1 | 22.2 | 23.3 | 22.6 | 21.6 | 20.1 | 23.0 | +2.9 |
|  | 45 | - | - | - | - | - | - | 24.2 | 27.0 | 25.4 | 23.7 | 23.6 | 21.1 | 19.4 | 23.6 | 21.3 | 18.9 | 23.4 | 21.2 | -2.2 |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 19.0 | 21.9 | 18.6 | 20.3 | 18.1 | 17.1 | 17.7 | +0.6 |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other | 18 | 33.9 | 35.1 | 29.5 | 34.5 | 48.5 | 47.7 | 47.2 | 49.4 | 45.0 | 43.9 | 43.7 | 42.8 | 40.5 | 39.5 | 38.3 | 37.8 | 36.6 | 33.6 | -3.1 |
| hallucinogens ${ }^{\text {b }}$ | 19-22 | 33.4 | 34.1 | 31.1 | 33.4 | 45.9 | 48.8 | 45.1 | 46.9 | 48.5 | 41.9 | 39.3 | 34.7 | 38.1 | 39.1 | 37.5 | 36.4 | 34.1 | 31.2 | -2.9 |
|  | 23-26 | 31.0 | 32.4 | 31.5 | 28.5 | 38.3 | 39.7 | 39.2 | 44.4 | 39.2 | 41.5 | 36.8 | 39.3 | 39.2 | 32.3 | 35.0 | 32.7 | 31.8 | 27.5 | -4.2 |
|  | 27-30 | 28.0 | 25.2 | 30.3 | 25.0 | 38.6 | 33.3 | 35.6 | 31.2 | 30.8 | 32.1 | 30.0 | 36.2 | 32.0 | 34.7 | 33.4 | 31.4 | 33.3 | 31.0 | -2.3 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PCP | 18 | 30.0 | 30.7 | 26.7 | 28.8 | 27.2 | 25.8 | 21.9 | 24.2 | 23.2 | 23.1 | 21.0 | 20.6 | 19.2 | 18.5 | 17.2 | 14.2 | 15.3 | 11.0 | -4.2 ss |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ecstasy (MDMA) | 18 | 38.8 | 38.2 | 40.1 | 51.4 | 61.5 | 59.1 | 57.5 | 47.9 | 40.3 | 40.3 | 40.9 | 41.9 | 35.1 | 36.4 | 37.1 | 35.9 | 35.1 | 36.1 | +1.1 |
|  | 19-22 | 35.6 | 39.4 | 43.2 | 49.9 | 55.5 | 59.7 | 52.1 | 45.8 | 43.5 | 41.2 | 38.4 | 34.7 | 37.1 | 30.4 | 37.9 | 28.3 | 33.9 | 32.9 | -1.0 |
|  | 23-26 | 31.1 | 30.1 | 34.9 | 41.8 | 51.5 | 52.9 | 49.3 | 51.3 | 46.4 | 44.6 | 42.2 | 41.5 | 36.8 | 35.2 | 34.0 | 32.2 | 35.7 | 30.9 | -4.7 |
|  | 27-30 | 24.3 | 26.4 | 30.0 | 35.5 | 40.6 | 41.2 | 41.0 | 41.1 | 38.0 | 40.5 | 40.7 | 42.2 | 38.0 | 31.2 | 33.8 | 32.8 | 28.6 | 29.7 | +1.0 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| $\square \downarrow$ (List of drugs continued.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 7-4 (cont.)
Trends in Availability of Drugs as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, and 50

| How difficult do you |  | Percentage saying fairly easy or very easy to get ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| following types of drugs, if you wanted some? | Age Group | 1980 | 1981 | $\underline{1982}$ | $\underline{1983}$ | $\underline{1984}$ | 1985 | 1986 | 1987 | $\underline{1988}$ | 1989 | 1990 | 1991 | $\underline{1992}$ | 1993 | 1994 | $\underline{1995}$ | 1996 | $\begin{aligned} & \text { (Years } \\ & \text { Cont.) } \end{aligned}$ |
| Cocaine | 18 | 47.9 | 47.5 | 47.4 | 43.1 | 45.0 | 48.9 | 51.5 | 54.2 | 55.0 | 58.7 | 54.5 | 51.0 | 52.7 | 48.5 | 46.6 | 47.7 | 48.1 |  |
|  | 19-22 |  | 56.2 | 57.1 | 55.2 | 56.2 | 56.9 | 60.4 | 65.0 | 64.9 | 66.8 | 61.7 | 54.3 | 54.5 | 49.2 | 49.9 | 49.4 | 44.4 |  |
|  | 23-26 | - | - | - | - | 63.7 | 67.2 | 65.8 | 69.0 | 71.7 | 70.0 | 65.6 | 58.0 | 61.1 | 53.8 | 54.4 | 54.7 | 50.2 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 68.6 | 68.2 | 64.0 | 60.0 | 63.1 | 56.8 | 53.1 | 57.0 | 53.0 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Crack | 18 | - | - | - | - | - | - | - | 41.1 | 42.1 | 47.0 | 42.4 | 39.9 | 43.5 | 43.6 | 40.5 | 41.9 | 40.7 |  |
|  | 19-22 | - | - | - | - | - | - | - | 41.9 | 47.3 | 47.2 | 46.9 | 42.1 | 42.1 | 38.4 | 41.6 | 40.7 | 32.9 |  |
|  | 23-26 | - | - | - | - | - | - | - | 44.5 | 53.0 | 49.9 | 46.9 | 42.0 | 42.6 | 42.5 | 42.4 | 42.3 | 37.9 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 46.5 | 46.8 | 46.8 | 43.1 | 45.2 | 45.8 | 41.1 | 44.7 | 39.9 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 49.6 | 48.2 | 43.1 |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Cocaine powder | 18 | - | - | - | - | - | - | - | 52.9 | 50.3 | 53.7 | 49.0 | 46.0 | 48.0 | 45.4 | 43.7 | 43.8 | 44.4 |  |
|  | 19-22 | - | - | - | - | - | - | - | 58.7 | 60.2 | 61.7 | 56.5 | 52.5 | 48.9 | 45.7 | 47.8 | 45.5 | 41.3 |  |
|  | 23-26 | - | - | - | - | - | - | - | 64.9 | 69.1 | 60.1 | 58.6 | 53.2 | 56.4 | 50.5 | 49.7 | 49.6 | 45.9 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 63.5 | 62.8 | 57.9 | 55.8 | 56.8 | 55.0 | 48.9 | 52.9 | 48.4 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 53.9 | 52.1 | 46.7 |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Heroin | 18 | 21.2 | 19.2 | 20.8 | 19.3 | 19.9 | 21.0 | 22.0 | 23.7 | 28.0 | 31.4 | 31.9 | 30.6 | 34.9 | 33.7 | 34.1 | 35.1 | 32.2 |  |
|  | 19-22 | 18.9 | 19.4 | 19.3 | 16.4 | 17.2 | 20.8 | 21.2 | 24.4 | 28.5 | 31.6 | 30.7 | 25.3 | 30.2 | 30.0 | 33.2 | 35.2 | 29.1 |  |
|  | 23-26 | - | - | - | - | 18.6 | 18.1 | 21.0 | 22.3 | 28.4 | 31.2 | 28.1 | 25.6 | 25.7 | 25.7 | 29.2 | 29.3 | 32.3 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 23.6 | 27.4 | 29.5 | 22.1 | 25.6 | 28.5 | 24.4 | 30.7 | 29.5 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Some other narcotic ${ }^{\text {c }}$ | 18 | 29.4 | 29.6 | 30.4 | 30.0 | 32.1 | 33.1 | 32.2 | 33.0 | 35.8 | 38.3 | 38.1 | 34.6 | 37.1 | 37.5 | 38.0 | 39.8 | 40.0 |  |
|  | 19-22 | 32.7 | 32.4 | 30.8 | 31.0 | 28.7 | 34.3 | 32.6 | 33.8 | 37.9 | 37.9 | 35.6 | 35.4 | 35.2 | 33.5 | 35.1 | 38.7 | 37.3 |  |
|  | 23-26 | - | - | - | - | 32.8 | 32.1 | 33.6 | 32.2 | 35.9 | 36.4 | 34.7 | 33.2 | 33.9 | 33.1 | 35.8 | 32.6 | 36.7 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 31.6 | 36.2 | 36.1 | 29.0 | 31.8 | 33.0 | 34.8 | 36.9 | 37.2 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Amphetamines | 18 |  | 69.5 | 70.8 | 68.5 | 68.2 | 66.4 | $64.3$ | $64.5$ | $63.9$ | 64.3 | 59.7 | 57.3 | 58.8 | 61.5 | 62.0 | 62.8 | 59.4 |  |
|  | 19-22 | 71.7 | 72.6 | 73.5 | 69.7 | 69.1 | 69.1 | 63.1 | 61.8 | 61.3 | 62.2 | 57.7 | 58.3 | 56.3 | 56.0 | 56.6 | 60.3 | 56.9 |  |
|  | 23-26 | - | - | - | - | 65.8 | 66.0 | 64.5 | 65.3 | 62.2 | 60.1 | 55.8 | 54.8 | 54.5 | 52.6 | 52.9 | 56.0 | 52.8 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 54.3 | 58.6 | 55.3 | 54.4 | 50.4 | 52.9 | 48.3 | 53.7 | 51.7 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 45.6 | 43.5 | 39.1 |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |

(Table continued on next page.)

TABLE 7-4 (cont.)
Trends in Availability of Drugs as Perceived by
Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, and 50

| Q. How difficult do you think it would be for you to get each of the following types of drugs, if you wanted some? | Age <br> Group | Percentage saying fairly easy or very easy to get ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1997 | 1998 | $\underline{1999}$ | $\underline{2000}$ | 2001 | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | 2008 | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ |  |
| Cocaine | 18 | 48.5 | 51.3 | 47.6 | 47.8 | 46.2 | 44.6 | 43.3 | 47.8 | 44.7 | 46.5 | 47.1 | 42.4 | 39.4 | 35.5 | 30.5 | 29.8 | 30.5 | 29.2 | -1.3 |
|  | 19-22 | 49.7 | 47.7 | 52.6 | 52.1 | 49.6 | 47.6 | 46.7 | 47.0 | 50.0 | 47.4 | 47.3 | 44.0 | 38.5 | 37.2 | 39.2 | 32.9 | 28.1 | 34.4 | +6.2 |
|  | 23-26 | 46.9 | 51.8 | 45.7 | 45.0 | 44.6 | 47.8 | 40.8 | 50.7 | 48.4 | 51.2 | 47.4 | 45.5 | 44.0 | 41.1 | 37.8 | 37.4 | 36.8 | 36.8 | 0.0 |
|  | 27-30 | 50.4 | 46.9 | 50.0 | 44.6 | 45.5 | 46.3 | 42.9 | 38.0 | 43.1 | 43.2 | 45.8 | 50.6 | 43.6 | 40.8 | 44.2 | 42.3 | 35.0 | 41.6 | +6.6 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Crack | 18 | 40.6 | 43.8 | 41.1 | 42.6 | 40.2 | 38.5 | 35.3 | 39.2 | 39.3 | 38.8 | 37.5 | 35.2 | 31.9 | 26.1 | 24.0 | 22.0 | 24.6 | 20.1 | -4.5 ss |
|  | 19-22 | 39.9 | 40.0 | 40.8 | 40.2 | 37.3 | 35.7 | 37.5 | 33.7 | 34.0 | 35.2 | 35.7 | 31.4 | 27.3 | 27.2 | 27.3 | 20.6 | 20.8 | 23.3 | +2.5 |
|  | 23-26 | 37.2 | 38.4 | 35.0 | 31.9 | 37.1 | 33.9 | 32.8 | 36.5 | 35.1 | 34.0 | 31.4 | 33.1 | 27.4 | 27.1 | 25.3 | 27.6 | 24.2 | 26.7 | +2.6 |
|  | 27-30 | 36.5 | 33.3 | 38.8 | 35.9 | 36.9 | 33.4 | 33.7 | 28.0 | 34.4 | 29.6 | 36.4 | 36.1 | 33.1 | 27.5 | 28.9 | 25.2 | 24.6 | 26.5 | +1.9 |
|  | 35 | 44.3 | 45.0 | 41.6 | 45.0 | 41.2 | 38.9 | 40.5 | 36.1 | 34.2 | 37.1 | 35.1 | 33.2 | 31.6 | 30.0 | 30.4 | 27.3 | 28.7 | 25.7 | -3.0 |
|  | 40 | - | 43.3 | 44.3 | 42.0 | 38.7 | 39.5 | 39.0 | 35.8 | 38.6 | 37.1 | 32.7 | 35.2 | 33.2 | 30.9 | 30.1 | 27.9 | 25.5 | 28.1 | +2.6 |
|  | 45 | - | - | - | - | - | - | 37.0 | 40.0 | 40.6 | 36.2 | 37.0 | 34.2 | 31.7 | 36.2 | 32.3 | 28.2 | 32.3 | 27.3 | -5.0 s |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 32.8 | 36.3 | 32.4 | 29.5 | 30.5 | 30.0 | 27.2 | -2.8 |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 30.2 | 34.6 | +4.4 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cocaine powder | 18 | 43.3 | 45.7 | 43.7 | 44.6 | 40.7 | 40.2 | 37.4 | 41.7 | 41.6 | 42.5 | 41.2 | 38.9 | 33.9 | 29.0 | 26.4 | 25.1 | 28.4 | 22.3 | -6.1 sss |
|  | 19-22 | 46.0 | 47.1 | 45.2 | 45.2 | 43.3 | 43.9 | 45.5 | 43.2 | 44.3 | 44.2 | 44.5 | 39.0 | 36.1 | 35.6 | 35.4 | 26.0 | 25.1 | 31.8 | +6.7 |
|  | 23-26 | 43.6 | 44.4 | 44.3 | 41.8 | 44.4 | 40.7 | 43.4 | 48.5 | 45.1 | 46.4 | 45.0 | 41.4 | 41.6 | 40.3 | 37.5 | 37.0 | 35.1 | 34.0 | -1.1 |
|  | 27-30 | 45.1 | 43.9 | 46.5 | 43.9 | 42.7 | 42.4 | 39.7 | 37.9 | 40.2 | 42.7 | 43.0 | 47.5 | 41.3 | 38.2 | 38.4 | 37.0 | 35.4 | 36.9 | +1.5 |
|  | 35 | 48.3 | 47.0 | 43.4 | 47.9 | 43.1 | 41.7 | 42.0 | 39.6 | 35.8 | 39.5 | 37.4 | 38.6 | 34.9 | 35.5 | 35.3 | 31.4 | 35.2 | 31.9 | -3.3 |
|  | 40 | - | 46.0 | 46.7 | 44.7 | 41.5 | 41.5 | 40.7 | 38.5 | 40.3 | 37.8 | 35.2 | 36.5 | 33.9 | 33.5 | 31.8 | 29.5 | 29.8 | 31.6 | +1.8 |
|  | 45 | - | - | - | - | - | - | 39.0 | 40.2 | 40.6 | 37.3 | 38.2 | 34.1 | 31.5 | 37.2 | 33.2 | 28.7 | 34.0 | 29.9 | -4.2 |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 32.6 | 35.9 | 32.8 | 31.0 | 30.8 | 30.3 | 27.8 | -2.5 |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 30.6 | 35.3 | +4.7 s |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Heroin | 18 | 33.8 | 35.6 | 32.1 | 33.5 | 32.3 | 29.0 | 27.9 | 29.6 | 27.3 | 27.4 | 29.7 | 25.4 | 27.4 | 24.1 | 20.8 | 19.9 | 22.1 | 20.2 | -1.9 |
|  | 19-22 | 31.4 | 32.1 | 32.7 | 29.4 | 30.2 | 26.4 | 26.9 | 22.6 | 25.4 | 25.3 | 26.5 | 24.2 | 19.4 | 22.0 | 21.2 | 19.3 | 16.0 | 20.2 | +4.2 |
|  | 23-26 | 30.5 | 35.1 | 31.9 | 25.7 | 26.6 | 27.2 | 25.5 | 30.9 | 22.5 | 28.1 | 22.2 | 23.4 | 23.4 | 23.1 | 21.1 | 22.7 | 23.1 | 21.1 | -2.0 |
|  | 27-30 | 30.0 | 28.3 | 33.0 | 29.3 | 29.9 | 27.0 | 27.5 | 22.0 | 27.8 | 25.4 | 27.5 | 26.3 | 25.2 | 25.2 | 28.0 | 23.3 | 20.9 | 25.5 | +4.6 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Some other narcotic ${ }^{\text {c }}$ | 18 | 38.9 | 42.8 | 40.8 | 43.9 | 40.5 | 44.0 | 39.3 | 40.2 | 39.2 | 39.6 | 37.3 | 34.9 | 36.1 | 54.2 | 50.7 | 50.4 | 46.5 | 42.2 | -4.3 s |
|  | 19-22 | 38.3 | 38.9 | 39.5 | 41.1 | 44.1 | 40.4 | 40.6 | 39.4 | 41.4 | 38.5 | 38.3 | 38.0 | 35.3 | 55.2 | 53.8 | 52.2 | 53.5 | 49.7 | -3.7 |
|  | 23-26 | 35.7 | 39.9 | 38.2 | 38.1 | 35.8 | 40.0 | 40.3 | 47.7 | 44.7 | 45.5 | 41.7 | 41.2 | 42.5 | 56.2 | 59.6 | 58.6 | 62.1 | 52.1 | -9.9 s |
|  | 27-30 | 35.2 | 32.2 | 36.9 | 32.4 | 39.4 | 38.5 | 38.9 | 35.8 | 37.7 | 39.8 | 41.3 | 39.4 | 43.5 | 62.3 | 65.2 | 59.8 | 64.4 | 56.2 | -8.2 s |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Amphetamines ${ }^{\text {d }}$ | 18 | 59.8 | 60.8 | 58.1 | 57.1 | 57.1 | 57.4 | 55.0 | 55.4 | 51.2 | 52.9 | 49.6 | 47.9 | 47.1 | 44.1 | 47.0 | 45.4 | 42.7 | 44.5 | +1.7 |
|  | 19-22 | 55.5 | 56.3 | 57.6 | 60.2 | 56.5 | 53.7 | 55.1 | 53.9 | 56.9 | 52.3 | 55.8 | 49.5 | 49.8 | 43.6 | 52.3 | 54.4 | 54.0 | 55.3 | +1.3 |
|  | 23-26 | 51.2 | 53.2 | 49.1 | 51.1 | 49.4 | 48.2 | 50.3 | 51.8 | 51.9 | 58.0 | 53.7 | 46.9 | 51.0 | 45.5 | 55.5 | 55.6 | 59.4 | 54.3 | -5.1 |
|  | 27-30 | 48.1 | 41.4 | 48.2 | 47.6 | 49.3 | 45.6 | 48.7 | 43.9 | 45.3 | 49.2 | 48.1 | 45.0 | 51.1 | 46.4 | 49.9 | 54.6 | 54.2 | 55.5 | +1.2 |
|  | 35 | 40.9 | 39.4 | 38.5 | 42.2 | 39.6 | 39.2 | 39.2 | 35.4 | 35.4 | 40.3 | 40.4 | 40.6 | 39.2 | 37.1 | 40.4 | 37.5 | 40.7 | 38.9 | -1.8 |
|  | 40 | - | 41.0 | 41.9 | 39.4 | 37.5 | 39.4 | 38.7 | 37.9 | 41.1 | 38.4 | 37.6 | 39.2 | 37.2 | 37.0 | 34.3 | 35.8 | 34.6 | 35.6 | +1.0 |
|  | 45 | - | - | - | - | - | - | 35.8 | 39.8 | 39.3 | 37.1 | 38.3 | 36.8 | 33.0 | 39.8 | 37.0 | 34.5 | 39.3 | 35.2 | -4.2 |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | 32.8 | 38.0 | 34.4 | 33.9 | 32.3 | 33.0 | 31.1 | -1.9 |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 36.8 | 39.6 | +2.9 |
| $\downarrow$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

(List of drugs continued.)

TABLE 7-4 (cont.)
Trends in Availability of Drugs as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, and 50

| Q. How difficult do you |  |  |  |  |  |  | Percent | age say | ing "fai | ly easy | or "ver | easy" | to get ${ }^{\text {a }}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| following types of drugs, if you wanted some? | Age <br> Group | 1980 | 1981 | 1982 | 1983 | $\underline{1984}$ | $\underline{1985}$ | $\underline{1986}$ | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | $\begin{aligned} & \text { (Years } \\ & \text { Cont.) } \end{aligned}$ |
| Crystal | 18 | - | - | - | - | - | - | - | - | - | - | 24.0 | 24.3 | 26.0 | 26.6 | 25.6 | 27.0 | 26.9 |  |
| methamphetamine | 19-22 | - | - | - | - | - | - | - | - | - | - | 24.0 | 21.8 | 22.5 | 20.9 | 24.7 | 25.5 | 25.4 |  |
| (ice) | 23-26 | - | - | - | - | - | - | - | - | - | - | 22.3 | 20.0 | 21.3 | 22.9 | 24.5 | 24.7 | 24.7 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | 27.3 | 19.7 | 22.0 | 21.2 | 21.7 | 25.8 | 26.1 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Sedatives/ | 18 | 49.1 | 54.9 | 55.2 | 52.5 | 51.9 | 51.3 | 48.3 | 48.2 | 47.8 | 48.4 | 45.9 | 42.4 | 44.0 | 44.5 | 43.3 | 42.3 | 41.4 |  |
| barbiturates ${ }^{\text {d }}$ | 19-22 | 59.5 | 61.1 | 56.8 | 54.2 | 48.1 | 52.7 | 46.8 | 44.6 | 45.5 | 47.7 | 44.2 | 41.7 | 43.4 | 41.9 | 40.6 | 42.9 | 41.1 |  |
|  | 23-26 | - | - | - | - | 52.7 | 47.7 | 46.4 | 45.9 | 47.4 | 44.8 | 41.6 | 39.6 | 42.0 | 38.8 | 40.3 | 42.1 | 40.6 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 43.2 | 44.5 | 44.2 | 38.5 | 37.8 | 39.7 | 37.4 | 39.9 | 41.2 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Tranquilizers | 18 | 59.1 | 60.8 | 58.9 | 55.3 | 54.5 | 54.7 | 51.2 | 48.6 | 49.1 | 45.3 | 44.7 | 40.8 | 40.9 | 41.1 | 39.2 | 37.8 | 36.0 |  |
|  | 19-22 | 67.4 | 62.8 | 62.0 | 62.3 | 52.5 | 55.6 | 52.9 | 50.3 | 50.0 | 49.4 | 45.4 | 44.8 | 40.7 | 40.9 | 41.0 | 40.2 | 37.6 |  |
|  | 23-26 | - | - | - | - | 60.2 | 54.3 | 54.1 | 56.3 | 52.8 | 51.4 | 47.8 | 45.1 | 48.1 | 43.2 | 45.9 | 44.3 | 42.3 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | 55.3 | 54.4 | 54.9 | 47.5 | 47.8 | 47.4 | 44.4 | 44.8 | 46.2 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Steroids | 18 | - | - | - | - | - | - | - | - | - | - | - | 46.7 | 46.8 | 44.8 | 42.9 | 45.5 | 40.3 |  |
|  | 19-22 | - | - | - | - | - | - | - | - | - | - | 44.1 | 44.8 | 46.3 | 41.7 | 40.9 | 41.8 | 40.8 |  |
|  | 23-26 | - | - | - | - | - | - | - | - | - | - | 37.6 | 35.8 | 39.3 | 35.8 | 37.0 | 37.4 | 33.9 |  |
|  | 27-30 | - | - | - | - | - | - | - | - | - | - | 36.4 | 30.6 | 35.0 | 31.6 | 30.5 | 33.1 | 35.6 |  |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Approximate | 18 | 3,240 | 3,578 | 3,602 | 3,385 | 3,269 | 3,274 | 3,077 | 3,271 | 3,231 | 2,806 | 2,549 | 2,476 | 2,586 | 2,670 | 2,526 | 2,552 | 2,340 |  |
| Weighted $N=$ | 19-22 | 582 | 601 | 582 | 588 | 559 | 571 | 592 | 581 | 568 | 572 | 571 | 534 | 512 | 480 | 459 | 470 | 467 |  |
|  | 23-26 |  |  |  |  | 540 | 541 | 548 | 539 | 526 | 514 | 532 | 511 | 523 | 500 | 463 | 449 | 418 |  |
|  | 27-30 |  |  |  |  |  |  |  |  | 519 | 513 | 510 | 487 | 475 | 473 | 437 | 446 | 468 |  |
|  | 35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1,142 | 1,141 | 1,146 |  |
|  | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 55 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

# TABLE 7-4 (cont.) <br> Trends in Availability of Drugs as Perceived by Respondents in Modal Age Groups of 18, 19-22, 23-26, 27-30, 35, 40, 45, and 50 

| Q. How difficult do you think it would be for you to get each of the following types of drugs, if you wanted some? |  | Percentage saying "fairly easy" or "very easy" to get ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Age <br> Group | $\underline{1997}$ | 1998 | 1999 | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ |  |
| Crystal methamphetamine (ice) | 18 | 27.6 | 29.8 | 27.6 | 27.8 | 28.3 | 28.3 | 26.1 | 26.7 | 27.2 | 26.7 | 25.1 | 23.3 | 22.3 | 18.3 | 17.1 | 14.5 | 17.2 | 13.7 | -3.5 s |
|  | 19-22 | 29.3 | 31.0 | 31.8 | 27.4 | 28.4 | 31.2 | 26.5 | 27.1 | 28.9 | 29.1 | 27.7 | 24.1 | 19.2 | 19.3 | 19.4 | 13.5 | 15.3 | 15.3 | 0.0 |
|  | 23-26 | 25.8 | 30.2 | 28.5 | 25.8 | 26.4 | 25.1 | 26.4 | 32.3 | 27.8 | 32.3 | 27.8 | 27.7 | 23.1 | 26.1 | 18.2 | 23.5 | 16.3 | 16.0 | -0.4 |
|  | 27-30 | 25.1 | 22.6 | 29.1 | 25.3 | 27.6 | 29.5 | 30.9 | 25.5 | 27.4 | 31.8 | 29.7 | 31.4 | 27.7 | 27.6 | 26.2 | 24.2 | 22.3 | 22.0 | -0.3 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sedatives/ barbiturates ${ }^{e}$ | 18 | 40.0 | 40.7 | 37.9 | 37.4 | 35.7 | 36.6 | 35.3 | 46.3 | 44.4 | 43.8 | 41.7 | 38.8 | 37.9 | 36.8 | 32.4 | 28.7 | 27.9 | 26.3 | -1.6 |
|  | 19-22 | 39.8 | 39.2 | 42.3 | 40.6 | 39.3 | 40.8 | 38.4 | 43.8 | 47.8 | 42.6 | 47.5 | 43.2 | 42.6 | 39.6 | 38.1 | 31.6 | 32.1 | 32.6 | +0.4 |
|  | 23-26 | 39.1 | 42.6 | 39.7 | 37.6 | 36.1 | 36.4 | 37.8 | 49.4 | 48.4 | 51.4 | 46.5 | 43.3 | 47.7 | 40.4 | 41.3 | 40.1 | 42.2 | 33.2 | -9.1 s |
|  | 27-30 | 39.1 | 33.9 | 38.4 | 36.1 | 38.1 | 34.8 | 35.6 | 40.5 | 42.9 | 43.3 | 46.4 | 44.7 | 48.5 | 43.1 | 42.9 | 42.3 | 44.8 | 39.9 | -4.9 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tranquilizers |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 18 | 35.4 | 36.2 | 32.7 | 33.8 | 33.1 | 32.9 | 29.8 | 30.1 | 25.7 | 24.4 | 23.6 | 22.4 | 21.2 | 18.4 | 16.8 | 14.9 | 15.0 | 14.4 | -0.7 |
|  | 19-22 | 37.8 | 36.8 | 37.1 | 36.5 | 34.9 | 34.6 | 34.2 | 29.7 | 30.1 | 22.8 | 28.5 | 23.3 | 18.3 | 20.2 | 18.6 | 17.3 | 17.4 | 16.8 | -0.6 |
|  | 23-26 | 36.4 | 39.4 | 38.3 | 37.6 | 38.7 | 33.7 | 32.5 | 36.6 | 32.9 | 33.0 | 31.7 | 30.3 | 27.7 | 21.8 | 23.0 | 22.1 | 18.5 | 17.5 | -1.0 |
|  | 27-30 | 41.9 | 39.9 | 41.5 | 36.7 | 42.9 | 38.1 | 35.9 | 30.6 | 33.5 | 32.1 | 32.4 | 33.1 | 30.1 | 30.6 | 27.1 | 25.7 | 28.1 | 21.2 | -6.9 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Steroids | 18 | 41.7 | 44.5 | 44.6 | 44.8 | 44.4 | 45.5 | 40.7 | 42.6 | 39.7 | 41.1 | 40.1 | 35.2 | 30.3 | 27.3 | 26.1 | 25.0 | 28.5 | 22.0 | -6.6 sss |
|  | 19-22 | 39.2 | 39.2 | 40.5 | 40.3 | 38.1 | 41.4 | 39.4 | 37.8 | 37.6 | 37.1 | 37.9 | 33.5 | 28.7 | 25.1 | 24.3 | 21.2 | 20.6 | 25.7 | +5.2 |
|  | 23-26 | 35.5 | 34.9 | 37.1 | 34.0 | 34.7 | 33.1 | 31.1 | 34.7 | 31.2 | 34.2 | 33.3 | 30.2 | 28.6 | 22.2 | 29.2 | 25.6 | 23.6 | 24.1 | +0.6 |
|  | 27-30 | 32.5 | 30.5 | 34.5 | 36.2 | 34.6 | 33.0 | 32.6 | 30.6 | 32.4 | 29.7 | 30.9 | 31.0 | 31.9 | 27.6 | 27.0 | 23.9 | 22.3 | 22.6 | +0.3 |
|  | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Approximate Weighted $N=$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 18 | 2,517 | 2,520 | 2,215 | 2,095 | 1,850 | 2,138 | 2,391 | 2,169 | 2,161 | 2,161 | 2,420 | 2,276 | 2,243 | 2,395 | 2,337 | 2,280 | 2,092 | 2,066 |  |
|  | 19-22 | 463 | 433 | 425 | 400 | 398 | 375 | 386 | 441 | 392 | 376 | 362 | 380 | 377 | 377 | 355 | 341 | 342 | 313 |  |
|  | 23-26 | 419 | 395 | 415 | 388 | 401 | 362 | 356 | 411 | 359 | 335 | 338 | 355 | 312 | 358 | 313 | 332 | 325 | 309 |  |
|  | 27-30 | 459 | 425 | 424 | 365 | 357 | 349 | 368 | 393 | 359 | 347 | 324 | 334 | 305 | 340 | 325 | 334 | 281 | 310 |  |
|  | 35 | 1,150 | 1,032 | 1,022 | 981 | 977 | 890 | 934 | 963 | 1,009 | 925 | 863 | 898 | 952 | 895 | 852 | 875 | 844 | 769 |  |
|  | 40 |  | 1,029 | 1,093 | 1,096 | 1,065 | 1,037 | 898 | 967 | 928 | 919 | 868 | 881 | 870 | 911 | 850 | 823 | 820 | 883 |  |
|  | 45 |  |  |  |  |  |  | 911 | 1,026 | 1,005 | 972 | 954 | 851 | 888 | 846 | 852 | 842 | 806 | 785 |  |
|  | 50 |  |  |  |  |  |  |  |  |  |  |  | 902 | 975 | 989 | 939 | 958 | 819 | 868 |  |
|  | 55 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 832 | 903 |  |

Source. The Monitoring the Future study, the University of Michigan.
Notes. Level of significance of difference between the two most recent years: $s=.05, \mathrm{ss}=.01, \mathrm{sss}=.001$
Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding

- ' indicates data not available.
${ }^{\text {a }}$ Answer alternatives were: (1) Probably impossible, (2) Very difficult, (3) Fairly difficult, (4) Fairly easy, and (5) Very easy
${ }^{\mathrm{b}}$ In 2001 the question text was changed from other psychedelics to other hallucinogens, and shrooms was added to the list of examples. These changes likely explain the discontinuity in the 2001 results

In 2010 the list of examples for narcotics other than heroin was changed from methadone, opium to Vicodin, OxyContin, Percocet, etc. This change likely explains the discontinuity in the 2010 results.
${ }^{\text {d }}$ In 2011 pep pills and bennies were replaced in the list of examples by Adderall and Ritalin. This change likely explains the discontinuity in the 2011 results
In 2004 the question text was changed from barbiturates to sedatives/barbiturates and the list of examples was changed from downers, goofballs, reds, yellows, etc. to just downers.
These changes likely explain the discontinuity in the 2004 results.

FIGURE 7-1
Trends in Exposure to Use of ANY ILLICIT DRUGS among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Any Exposure


FIGURE 7-2
Trends in Exposure to Use of ANY ILLICIT DRUGS
among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Often Exposed


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

## FIGURE 7-3

Trends in Exposure to Use of ANY ILLICIT DRUG OTHER THAN MARIJUANA ${ }^{\text {a }}$ among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Any Exposure


Source.
The Monitoring the Future study, the University of Michigan.
${ }^{\text {a }}$ These estimates were derived from responses to the question for the following drugs: marijuana, LSD, other hallucinogens, cocaine, heroin or other narcotics, amphetamines, sedatives (barbiturates), and tranquilizers.

## FIGURE 7-4

Trends in Exposure to Use of ANY ILLICIT DRUG OTHER THAN MARIJUANA ${ }^{\text {a }}$ among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Often Exposed


Source.
The Monitoring the Future study, the University of Michigan.
${ }^{\text {a }}$ These estimates were derived from responses to the question for the following drugs: marijuana, LSD, other hallucinogens, cocaine, heroin or other narcotics, amphetamines, sedatives (barbiturates), and tranquilizers.

## FIGURE 7-5

Trends in Exposure to Use of MARIJUANA among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Any Exposure


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

## FIGURE 7-6

Trends in Exposure to Use of MARIJUANA
among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Often Exposed


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

## FIGURE 7-7

Trends in Exposure to Use of LSD
among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Any Exposure


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

## FIGURE 7-8

Trends in Exposure to Use of LSD
among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Often Exposed


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

Trends in Exposure to Use of HALLUCINOGENS OTHER THAN LSD ${ }^{\text {a }}$ among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Any Exposure


Source. The Monitoring the Future study, the University of Michigan.
aln 2001 the question text was changed from other psychedelics to other hallucinogens, and shrooms was added to the list of examples. These changes likely explain the discontinuity in the 2001 results.

FIGURE 7-10
Trends in Exposure to Use of HALLUCINOGENS OTHER THAN LSD ${ }^{\text {a }}$ among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Often Exposed


Source.
The Monitoring the Future study, the University of Michigan.
${ }^{\text {aln }} 2001$ the question text was changed from other psychedelics to other hallucinogens, and shrooms was added to the list of examples. These changes likely explain the discontinuity in the 2001 results.

FIGURE 7-11
Trends in Exposure to Use of COCAINE among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Any Exposure


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

FIGURE 7-12
Trends in Exposure to Use of COCAINE among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Often Exposed


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

## FIGURE 7-13

Trends in Exposure to Use of HEROIN
among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Any Exposure


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

## FIGURE 7-14

Trends in Exposure to Use of HEROIN
among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Often Exposed


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

FIGURE 7-15
Trends in Exposure to Use of NARCOTICS OTHER THAN HEROIN ${ }^{\text {a }}$ among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Any Exposure


Source. The Monitoring the Future study, the University of Michigan.
${ }^{\text {a }}$ In 2010 the list of examples for narcotics other than heroin was changed from methadone, opium to Vicodin, OxyContin, Percocet, etc. This change likely explains the discontinuity in the 2010 results.

FIGURE 7-16
Trends in Exposure to Use of NARCOTICS OTHER THAN HEROIN ${ }^{\text {a }}$ among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Often Exposed


Source. The Monitoring the Future study, the University of Michigan.
${ }^{\text {a }}$ In 2010 the list of examples for narcotics other than heroin was changed from methadone, opium to Vicodin, OxyContin, Percocet, etc. This change likely explains the discontinuity in the 2010 results.

FIGURE 7-17
Trends in Exposure to Use of AMPHETAMINES ${ }^{\text {a }}$ among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Any Exposure


Source.
${ }^{\text {a }}$ In 2011 pep pills and bennies were replaced in the list of examples by Adderall and Ritalin. This change likely explains the discontinuity in the 2011 results.

FIGURE 7-18
Trends in Exposure to Use of AMPHETAMINES ${ }^{\text {a }}$ among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Often Exposed


Source. The Monitoring the Future study, the University of Michigan.
${ }^{\text {a }} 2011$ pep pills and bennies were replaced in the list of examples by Adderall and Ritalin. This change likely explains the discontinuity in the 2011 results.

FIGURE 7-19
Trends in Exposure to Use of SEDATIVES (BARBITURATES) ${ }^{\text {a }}$ among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Any Exposure


Source. The Monitoring the Future study, the University of Michigan.
${ }^{\text {a }}$ In 2004 the question text was changed from barbiturates to sedatives/barbiturates and the list of examples was changed from downers, goofballs, reds, yellows, etc. to just downers. These changes likely explain the discontinuity in the 2004 results.

FIGURE 7-20
Trends in Exposure to Use of SEDATIVES (BARBITURATES) ${ }^{\text {a }}$ among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Often Exposed


Source. The Monitoring the Future study, the University of Michigan
${ }^{\text {a }}$ In 2004 the question text was changed from barbiturates to sedatives/barbiturates and the list of examples was changed from downers, goofballs, reds, yellows, etc. to just downers. These changes likely explain the discontinuity in the 2004 results.

FIGURE 7-21
Trends in Exposure to Use of TRANQUILIZERS ${ }^{\text {a }}$ among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Any Exposure


Source. The Monitoring the Future study, the University of Michigan.
${ }^{\text {a }}$ In 2001 Xanax was added to the list of examples. This change likely explains the discontinuity in the 2001 results.

FIGURE 7-22
Trends in Exposure to Use of TRANQUILIZERS ${ }^{\text {a }}$ among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Often Exposed


Source.
The Monitoring the Future study, the University of Michigan.
${ }^{\text {a }}$ In 2001 Xanax was added to the list of examples. This change likely explains the discontinuity in the 2001 results.

FIGURE 7-23
Trends in Exposure to Use of ALCOHOL among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Any Exposure


FIGURE 7-24
Trends in Exposure to Use of ALCOHOL
among Respondents in Modal Age Groups of 18, 19-22, 23-26, and 27-30
\% Saying Often Exposed


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

## Chapter 8

## PREVALENCE OF DRUG USE AMONG COLLEGE STUDENTS AND THEIR NONCOLLEGE PEERS

College students have often been the harbingers of social and political changes that eventually spread to other segments of the population up and down the age spectrum. The Monitoring the Future (MTF) study tracks multiple forms of substance use among U.S. college students and has done so for more than a third of a century. In this process, MTF has been able to document the fluctuations in college substance use as well as some patterns of influence on or by other age groups. This chapter focuses on the prevalence of drug use in 2014 by college students and their age-peers not in college; the next chapter focuses on historical trends in drug use among these two groups.

## Definition of College Students

College students are defined in this volume as those follow-up respondents one to four years past high school who report that they were taking courses as full-time students in a two- or four-year undergraduate college at the beginning of March of the year in question. Note that students at two-year colleges, such as community colleges, are included. The definition excludes those who are currently enrolled in college part-time and those who previously may have been college students or may have completed college. MTF has been able to generate an unparalleled national sample of college students and peers not in college every year since 1980 by following representative samples of sequential high school classes after they graduate. The graduating class of 1976 was the first such class followed after graduation, and by 1980 the survey included college students one to four years past high school.

The absence of dropouts in the original high school senior samples has practically no effect on the representativeness of these college samples, because very few dropouts go on to college. One notable limitation of the present design for the purpose of characterizing college students is that it limits the age range of the college sample. For trend estimation purposes, we decided to limit the age band to the most typical one for college attendance, that is, one to four years past high school, which corresponds to modal ages 19 through 22. According to the latest statistics available from the United States Census Bureau, ${ }^{1}$ this age band should encompass about $76 \%$ of all undergraduate college students enrolled full-time in 2013, down slightly from the $79 \%$ covered in 1989. Although expanding the age band to include an additional two years would cover $78 \%$ of all enrolled college students of any age, it would slightly reduce the homogeneity of the college experience by including older classmates and would limit historical comparability. Special analyses conducted in 1985 and replicated in 1997 indicated extremely small differences in the estimates of drug use prevalence under the two definitions. The annual prevalence of all drugs except cocaine shifted only about one or two tenths of a percentage point. Cocaine, which had the greatest amount of age-related change at that time, would have had an annual prevalence rate only 0.8 percentage points higher using the six-year age span. Another replication of these

[^77]analyses in 2011 yielded virtually the same results. Thus, for purposes of estimating all prevalence rates except lifetime prevalence, the four- and six-year intervals are nearly interchangeable, suggesting that this limitation is negligible for our purposes of trend estimation.

The MTF panels also include high school graduates one to four years past high school who are not attending college. Having longitudinal data for both groups is a rare and valuable feature of the MTF longitudinal design and makes it possible to compare differences and changes in the use of various substances after high school for each group. College students as defined here now constitute well over half (61\%) of the entire follow-up sample one to four years past high school. If data from the missing high school dropout segment were available for inclusion as part of the noncollege segment, any difference between the two groups in terms of their substance use would likely be enlarged; therefore, any difference observed here is only an indication of the direction and relative size of difference between the college and the entire noncollege population, not an absolute estimate of the difference.

## PREVALENCE OF DRUG USE AMONG COLLEGE STUDENTS VERSUS THEIR NONCOLLEGE PEERS

In 2014, prevalence of use for most illicit drugs among college students was lower compared with use among their noncollege peers, but the degree of difference varied considerably by drug, as Tables 8-1 through 8-4 show.

- In 2014, annual prevalence of use of any illicit drug was $39 \%$ for college students and $44 \%$ among the noncollege respondents. Annual prevalence of using any illicit drug other than marijuana was also higher in the latter group with the college segment at $21 \%$ and the noncollege group at $25 \%$.
- The gap between prevalence rates for a few drugs widened in 2014, whereas four specific drugs showed similar annual prevalence rates for the college student segment versus noncollege segment: hallucinogens other than LSD (3.2\% vs. 4.9\%), ecstasy (5.0\% vs. $6.5 \%$ ), methamphetamine ( $0.1 \%$ vs. $0.9 \%$ ), and ketamine ( $0.1 \%$ vs. $0.2 \%$ ). Inhalant use (1.3\% vs. $1.2 \%$ ) was also nearly equivalent.
- The annual prevalence of marijuana use was somewhat lower among college students versus noncollege individuals in 2014 ( $34 \%$ vs. $40 \%$,, respectively), whereas the rate of current daily marijuana use was about twice as high for the noncollege group compared to the college students ( $10.8 \%$ vs. $5.9 \%$, see Table 8-4.)
- It is clear that use of a number of illicit drugs other than marijuana tended to be distinctly higher among those not in college. (As previously noted, such differences would likely be larger if the noncollege sample included high school dropouts.) In fact, several drugs showed annual use rates for noncollege respondents in 2014 that were two or more times those for college students, including synthetic marijuana, LSD, salvia, heroin, heroin with a needle, heroin without a needle, OxyContin, Vicodin,
methamphetamine, crystal methamphetamine, bath salts (synthetic stimulants), GHB, and ketamine.
- In 2014, nontrivial proportions of both the noncollege group (7.8\%) and college students (4.8\%) reported past-year use of narcotics other than heroin without medical supervision.. With respect to specific drugs in this class, Vicodin was used by $6.5 \%$ of the noncollege group vs. $2.8 \%$ of college students; the corresponding numbers for OxyContin were 3.7\% and 1.3\%.
- By way of contrast, amphetamine use was somewhat higher among college students than among their noncollege age-mates. Annual prevalence of amphetamine use among college students was $10.1 \%$ in 2014, compared to $9.2 \%$ in the noncollege group. Specifically, annual prevalence of Adderall use without medical supervision (Table 8-2) was somewhat higher for college students (9.6\%) than for noncollege respondents (7.2\%), as has been the case for the last four years. The higher use by college students was very likely because this amphetamine drug, intended for the treatment of attention deficit hyperactivity disorder (ADHD), was sometimes used by students to stay awake and alert in order to complete course work and to study for exams. However, in 2014 the use of Ritalin, another stimulant drug prescribed for ADHD, was higher among the noncollege group (2.6\%) than among the college group (1.6\%).
- In 2014, college students were modestly higher in annual and 30-day use of alcohol than the noncollege group (respective 30-day prevalence was $63 \%$ vs. $56 \%$ ).
- College students also had a higher prevalence (35\%) of occasions of heavy drinking (five or more drinks in a row in the past two weeks) than their noncollege peers (29\%). Indeed, more than four in every ten college students (43\%) reported having been drunk in the prior 30 days, compared to $34 \%$ of the noncollege respondents. The groups did not differ much in their rates of daily drinking, with $4.3 \%$ of college students and $4.1 \%$ of their noncollege peers reporting such use (Table 8-4). In high school, college-bound students, especially in earlier grades, were far less likely to drink alcohol at any level compared to their non-college-bound peers; thus, the relative and absolute increases in alcohol use among college students in the first few years following high school were quite striking.
- Because of increasing attention paid to the problem of extreme binge drinking, in 2005 we introduced a set of questions on the subject into one of the six questionnaire forms used with young adults, including college students. The questions asked respondents about the frequency in the past two weeks of having 10 or more drinks in a row and also of having 15 or more drinks in a row. The low numbers of cases. that resulted from a single questionnaire form necessitate combining multiple years of data (2005-2014), making 2,044 weighted cases available from the college student population and 1,112 for the noncollege young adults of the same age. About one in eight college students (13\%) reported having 10 or more drinks in a row at least once in the prior two weeks, and one in twenty (5\%) reported 15 or more drinks in a row at least once. The noncollege respondents had essentially identical respective rates ( $12 \%$ and $5 \%$ ). While we lack earlier data on these measures to determine whether this type of extreme drinking
behavior has changed over time, clearly it has been quite high in recent years among both college students and their noncollege peers. As will be discussed below, there are dramatic gender differences in the prevalence of these behaviors.
- In 2014, 64\% of college students reported using flavored alcoholic beverages in the prior year, compared to $54 \%$ of the noncollege group.
- Among all substances studied, the largest differences for annual, 30-day, and daily prevalence rates between the two groups occur for cigarette smoking. For example, the prevalence of daily smoking for college students was $5 \%$ versus $16 \%$ for noncollege respondents (Table 8-4) in 2014. Smoking at the rate of a half pack or more per day stood at $2 \%$ versus $10 \%$ for these two groups, respectively. The $12^{\text {th }}$-grade data show the college-bound to have much lower smoking rates in high school than the non-collegebound; thus, in contrast to what was true for alcohol use, these substantial differences observed at college age actually preceded college attendance. ${ }^{2}$ The smoking differences would be even greater if dropouts were included in the noncollege group, because dropouts have consistently shown an exceptionally high rate of smoking. ${ }^{3}$

In sum, the noncollege segment was generally more drug-involved than the college student segment. This pattern is a continuation of the high school pattern in which those without college plans are more likely to use drugs. The only substances that college students were appreciably more likely to use than their noncollege peers were amphetamines (including Adderall specifically) and alcohol (particularly getting drunk and binge drinking). The higher rates of alcohol use among college students emerged only after high school; during high school alcohol use was lower among those planning to go to college.

## GENDER DIFFERENCES IN PREVALENCE OF USE AMONG COLLEGE STUDENTS AND THEIR NONCOLLEGE PEERS

Data stratified by gender are provided in Tables 8-1 to 8-4.

- Most gender differences among college students replicated those discussed in Chapter 4 for all young adults one to 12 years past high school, and they in turn replicated gender differences among secondary school students. That means that among college students, males had higher annual prevalence rates for most illicit drugs.
- Among college students, annual prevalence rates for use of any illicit drug were very similar-39\% for males versus $38 \%$ for females. For any illicit drug other than

[^78]marijuana, they were also very close-22\% versus $20 \%$ respectively. Annual marijuana use was higher among college males than females ( $37 \%$ vs. $32 \%$ ) and the same was true for the noncollege group ( $44 \%$ vs. $36 \%$ ). Daily marijuana use was about twice as high among male college students compared to female college students ( $8.7 \%$ vs. $3.9 \%$ respectively); in the noncollege group, the rates of use for both genders were much higher, and again they were higher among males (13.2\%) than among females (9.0\%).

- Most hallucinogens showed distinctly higher annual prevalence rates among male versus female college students. Among the noncollege respondents the differences were in the same direction.
- Among college students, annual use of narcotics other than heroin without medical supervision was slightly higher for males (5.2\%) than for females (4.6\%), with a larger gender difference in the noncollege group ( $10.1 \%$ vs. $5.9 \%$, respectively). The specific narcotic Vicodin shows a similar pattern: slightly higher for males than females ( $2.9 \%$ vs. 2.7\%) among the college students, with a larger gender difference in the noncollege group ( $10.6 \%$ vs. $3.3 \%$ ). For OxyContin use, males were considerably higher than females in the noncollege group in 2014 ( $5.9 \%$ vs. 2.1\%), but among the college students, both genders showed a low and similar level of annual use outside of medical direction (1.0\% vs. 1.4\%).
- Annual amphetamine use was higher among college males (12.0\%) than college females ( $8.8 \%$ ), but there was less gender difference in the noncollege segment ( $9.7 \%$ for males and $8.8 \%$ for females). This suggests that college males may be more likely to use amphetamines to enhance academic performance than are college females.
- Annual Ritalin use without medical supervision was higher among college males (2.6\%) than females (1.0\%), and in the noncollege segment males were also higher than females (3.2\% vs. 2.2\%, respectively).
- The annual prevalence of Adderall use outside of medical supervision was higher among male college students (one in every nine college males, or 11.1\%) than female college students ( $8.6 \%$ ), and use was also higher among males than among females in the noncollege segment ( $8.8 \%$ vs. $6.0 \%$, respectively). Again, the higher use of amphetamines among male and female college students compared with male and female noncollege respondents suggests that some college students of both genders could be using these drugs to enhance their academic performance. .
- Males reported higher rates than females of being drunk in the past 30 days ( $46 \%$ vs. $40 \%$ in the college group) with a larger gender difference in the noncollege group (43\% vs. $28 \%$, respectively). Similarly, gender differences in binge drinking were less among college students ( $43 \%$ for males and $30 \%$ for females) than among those not in college ( $39 \%$ and $22 \%$, respectively; see Table $8-4$ ). In other words, among males the rates for being drunk or binge drinking were only 3 to 4 percentage points higher among those in college compared to those not in college, whereas among females the rates differed by 8 to 12 percentage points between college students and their noncollege peers.
- Extreme levels of binge drinking showed a large gender difference in both groups. For the years 2005-2014 combined, the prevalence of having 10 or more drinks in a row in the prior two weeks was over three times higher among college males (22\%) than among college females (7\%) and similarly higher among noncollege males (18\%) than noncollege females (7\%). Prevalence of extreme binge drinking for college males (22\%) exceeded that for noncollege males (18\%), whereas college and noncollege females were similar ( $7 \%$ each). Regarding the prevalence of having 15 or more drinks in a row, gender differences were similar across college and noncollege respondents: it was $9.5 \%$ and $9.6 \%$ for college and noncollege males, respectively, and $1.9 \%$ and $2.1 \%$ for college and noncollege females, respectively. Put another way, during the prior two weeks, nearly one in four college males and one in five noncollege males had 10 or more drinks at least once, and one in ten males regardless of college student status reported having 15 or more drinks at least once.
- Flavored alcoholic beverages were more likely to be consumed by females than males in college ( $70 \%$ of females vs. $56 \%$ of males reporting past-year use), but the gender difference was considerably smaller in the noncollege group ( $60 \%$ of females vs. $56 \%$ of males) in 2014.
- Among college students, 30-day prevalence of cigarette smoking was higher for males (16\%) than for females (10\%) in 2014, and the gender difference was similar in the noncollege segment ( $28 \%$ and $22 \%$, respectively); rates for both genders were much higher in the noncollege group. Daily smoking was reported by slightly more males than females in the college segment ( $5.7 \%$ vs. $4.8 \%$ ); the rates again were much higher in the noncollege segment ( $17 \%$ for males and $16 \%$ for females). Put another way, daily smoking was more than three times as high among males in the noncollege segment as among male college students ( $21 \%$ vs. $5.7 \%$ ), and the same was true among females ( $16 \%$ vs. $4.8 \%$ ). Rates of smoking a half pack or more per day were $2.8 \%$ and $2.2 \%$ for males and females among college students, compared with $9.8 \%$ and $10.4 \%$ for the noncollege segment, respectively.

In sum, for most drugs, licit and illicit, a higher proportion of college males used than did their female counterparts, with the greatest proportional differences occurring for various hallucinogens, daily marijuana use, and extreme binge drinking. Compared with noncollege males, college males were also more frequent users of alcohol and of Adderall (outside of medical supervision), but considerably less likely to use marijuana daily.

TABLE 8-1
Lifetime Prevalence of Use for Various Types of Drugs, 2014:
Full-Time College Students vs. Others among Respondents 1 to 4 Years beyond High School by Gender
(Entries are percentages.)

|  | Total |  | Males |  | Females |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Full-Time College | Others | Full-Time College | Others | Full-Time College | Others |
| Any Illicit Drug ${ }^{\text {a }}$ | 52.4 | 62.3 | 54.5 | 65.4 | 50.9 | 59.8 |
| Any Illicit Drug other than Marijuana ${ }^{\text {a }}$ | 29.0 | 37.2 | 29.8 | 40.1 | 28.3 | 34.9 |
| Marijuana | 48.5 | 58.1 | 52.0 | 61.3 | 45.9 | 55.5 |
| Inhalants ${ }^{\text {b }}$ | 3.5 | 8.0 | 3.8 | 8.5 | 3.3 | 7.5 |
| Hallucinogens ${ }^{\text {c }}$ | 7.6 | 12.9 | 10.3 | 17.7 | 5.6 | 9.1 |
| LSD ${ }^{\text {c }}$ | 4.5 | 6.9 | 6.4 | 9.5 | 3.0 | 4.8 |
| Hallucinogens other than LSD ${ }^{\text {c }}$ | 6.8 | 10.9 | 9.3 | 14.5 | 5.0 | 8.2 |
| Ecstasy (MDMA) ${ }^{\text {b }}$ | 8.2 | 12.6 | 8.5 | 15.6 | 8.0 | 10.2 |
| Cocaine | 6.2 | 8.8 | 8.5 | 11.6 | 4.5 | 6.6 |
| Crack ${ }^{\text {c }}$ | 1.4 | 1.0 | 1.3 | 1.2 | 1.5 | 0.9 |
| Other Cocaine ${ }^{\text {d }}$ | 6.2 | 8.1 | 8.3 | 10.6 | 4.6 | 6.3 |
| Heroin | 0.3 | 1.2 | 0.6 | 1.9 | * | 0.7 |
| With a Needle ${ }^{\text {e }}$ | * | 0.7 | * | 0.9 | * | 0.4 |
| Without a Needle ${ }^{\text {e }}$ | 0.1 | 1.5 | 0.3 | 2.0 | * | 1.2 |
| Narcotics other than Heroin ${ }^{\dagger}$ | 9.9 | 16.6 | 10.1 | 18.7 | 9.7 | 15.0 |
| Amphetamines, Adjusted ${ }^{\text {f,g }}$ | 15.0 | 16.4 | 16.6 | 17.1 | 13.7 | 15.8 |
| Methamphetamine ${ }^{\text {e }}$ | 0.7 | 1.3 | 0.6 | 3.3 | 0.7 | * |
| Crystal Methamphetamine (Ice) ${ }^{\text {e }}$ | 0.3 | 1.4 | * | 1.4 | 0.5 | 1.4 |
| Sedatives (Barbiturates) ${ }^{\text {f }}$ | 5.9 | 9.3 | 5.5 | 7.6 | 6.2 | 10.6 |
| Tranquilizers ${ }^{\dagger}$ | 6.9 | 12.3 | 8.1 | 11.8 | 6.0 | 12.7 |
| Alcohol | 79.4 | 79.5 | 79.1 | 77.5 | 79.7 | 81.1 |
| Been Drunk ${ }^{\text {b }}$ | 68.8 | 73.4 | 68.8 | 74.5 | 68.9 | 72.7 |
| Flavored Alcoholic Beverages ${ }^{\text {h }}$ | 72.7 | 71.8 | 67.5 | 65.1 | 76.2 | 77.5 |
| Cigarettes | - | - | - | - | - | - |
| Steroids ${ }^{\text {e }}$ | 0.9 | 1.7 | 1.2 | 2.9 | 0.6 | 0.8 |
| Approximate Weighted $N=$ | 1,030 | 660 | 440 | 290 | 590 | 370 |

[^79]
## TABLE 8-2

## Annual Prevalence of Use for Various Types of Drugs, 2014: <br> Full-Time College Students vs. Others among Respondents 1 to 4 Years beyond High School by Gender

(Entries are percentages.)

|  | Total |  | Males |  | Females |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Full-Time |  | Full-Time |  | Full-Time |  |
|  | College | Others | College | Others | College | Others |
| Any Illicit Drug ${ }^{\text {a }}$ | 38.6 | 44.1 | 39.2 | 49.9 | 38.2 | 39.6 |
| Any Illicit Drug other than Marijuana ${ }^{\text {a }}$ | 20.8 | 24.5 | 21.8 | 28.5 | 20.1 | 21.3 |
| Marijuana | 34.4 | 39.7 | 37.3 | 44.1 | 32.3 | 36.2 |
| Synthetic Marijuana ${ }^{\text {b }}$ | 0.9 | 3.4 | 2.0 | 5.3 | 0.1 | 1.9 |
| Inhalants ${ }^{\text {b }}$ | 1.3 | 1.2 | 1.4 | 1.9 | 1.2 | 0.7 |
| Hallucinogens ${ }^{\text {c }}$ | 4.0 | 7.0 | 6.1 | 9.4 | 2.5 | 5.1 |
| LSD ${ }^{\text {c }}$ | 2.2 | 4.5 | 3.1 | 6.0 | 1.6 | 3.3 |
| Hallucinogens other than LSD ${ }^{\text {c }}$ | 3.2 | 4.9 | 5.4 | 6.7 | 1.6 | 3.4 |
| Ecstasy (MDMA) ${ }^{\text {b }}$ | 5.0 | 6.5 | 5.9 | 7.9 | 4.3 | 5.3 |
| Salvia ${ }^{\text {b }}$ | 1.1 | 2.2 | 2.3 | 4.3 | 0.3 | 0.6 |
| Cocaine | 4.4 | 5.1 | 5.6 | 6.6 | 3.6 | 3.9 |
| Crack ${ }^{\text {c }}$ | 0.8 | 0.3 | 0.5 | 0.2 | 1.0 | 0.3 |
| Other Cocaine ${ }^{\text {d }}$ | 4.1 | 4.4 | 5.1 | 5.6 | 3.4 | 3.5 |
| Heroin | * | 0.6 | 0.1 | 0.9 | * | 0.4 |
| With a Needle ${ }^{\text {e }}$ | * | 0.2 | * | * | * | 0.4 |
| Without a Needle ${ }^{\text {e }}$ | 0.1 | 0.7 | 0.3 | 1.1 | * | 0.4 |
| Narcotics other than Heroin ${ }^{\dagger}$ | 4.8 | 7.8 | 5.2 | 10.1 | 4.6 | 5.9 |
| OxyContin ${ }^{\text {b,f }}$ | 1.3 | 3.7 | 1.0 | 5.9 | 1.4 | 2.1 |
| Vicodin ${ }^{\text {b,f }}$ | 2.8 | 6.5 | 2.9 | 10.6 | 2.7 | 3.3 |
| Amphetamines, Adjusted ${ }^{\text {f,g }}$ | 10.1 | 9.2 | 12.0 | 9.7 | 8.8 | 8.8 |
| Ritalin ${ }^{\text {b,f }}$ | 1.6 | 2.6 | 2.6 | 3.2 | 1.0 | 2.2 |
| Adderall ${ }^{\text {b,f }}$ | 9.6 | 7.2 | 11.1 | 8.8 | 8.6 | 6.0 |
| Methamphetamine ${ }^{\text {e }}$ | 0.1 | 0.9 | * | 2.2 | 0.2 | * |
| Crystal Methamphetamine (Ice) ${ }^{\text {e }}$ | * | 0.8 | * | 0.5 | * | 1.0 |
| Bath Salts (synthetic stimulants) ${ }^{\text {b }}$ | 0.2 | 0.9 | * | 2.2 | 0.3 | * |
| Sedatives (Barbiturates) ${ }^{\dagger}$ | 3.1 | 4.7 | 2.9 | 4.6 | 3.2 | 4.8 |
| Tranquilizers ${ }^{\dagger}$ | 3.5 | 6.0 | 4.1 | 5.6 | 3.1 | 6.4 |
| GHB ${ }^{\text {e }}$ | 0.2 | 0.6 | 0.3 | 1.5 | 0.2 | * |
| Ketamine ${ }^{\text {e }}$ | 0.1 | 0.2 | 0.3 | 0.5 | * | * |
| Alcohol | 76.1 | 74.5 | 75.9 | 74.1 | 76.2 | 74.8 |
| Been Drunk ${ }^{\text {b }}$ | 60.5 | 58.9 | 59.4 | 62.7 | 61.2 | 56.0 |
| Flavored Alcoholic Beverages ${ }^{\text {n }}$ | 64.2 | 54.2 | 56.2 | 47.2 | 69.6 | 60.1 |
| Alcoholic Beverages containing Caffeine ${ }^{\text {e }}$ | 32.8 | 36.7 | 39.3 | 38.5 | 28.2 | 35.5 |
| Cigarettes | 22.6 | 34.7 | 24.5 | 37.3 | 21.3 | 32.7 |
| Tobacco using a Hookah ${ }^{\text {b }}$ | 32.7 | 29.3 | 34.4 | 33.6 | 31.6 | 26.0 |
| Small Cigars ${ }^{\text {e }}$ | 24.2 | 23.9 | 33.4 | 34.7 | 17.8 | 16.3 |
| Dissolvable Tobacco ${ }^{\text {e }}$ | 0.5 | 1.4 | 1.3 | 3.2 | * | * |
| Snus ${ }^{\text {e }}$ | 5.0 | 7.6 | 10.3 | 14.0 | 1.4 | 3.1 |
| Steroids ${ }^{\text {e }}$ | 0.5 | 1.0 | 1.0 | 1.2 | 0.2 | 0.8 |
| Approximate Weighted $N=$ | 1,030 | 660 | 440 | 290 | 590 | 370 |

[^80]
## TABLE 8-3

Thirty-Day Prevalence of Use for Various Types of Drugs, 2014: Full-Time College Students vs. Others among Respondents 1 to 4 Years beyond High School by Gender
(Entries are percentages.)

|  | Total |  | Males |  | Females |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Full-Time College | Others | Full-Time College | Others | Full-Time College | Others |
| Any Illicit Drug ${ }^{\text {a }}$ | 22.7 | 27.1 | 25.9 | 29.8 | 20.2 | 25.0 |
| Any Illicit Drug other than Marijuana ${ }^{\text {a }}$ | 10.0 | 12.6 | 12.4 | 13.1 | 8.3 | 12.2 |
| Marijuana | 20.8 | 26.0 | 23.5 | 28.5 | 18.8 | 23.9 |
| Synthetic Marijuana ${ }^{\text {h }}$ | * | 1.8 | * | 3.8 | * | * |
| Inhalants ${ }^{\text {b }}$ | 0.3 | 0.4 | 0.2 | 0.7 | 0.4 | 0.2 |
| Hallucinogens ${ }^{\text {c }}$ | 1.0 | 1.9 | 1.9 | 1.6 | 0.3 | 2.1 |
| LSD ${ }^{\text {c }}$ | 0.5 | 1.0 | 0.7 | 0.7 | 0.3 | 1.1 |
| Hallucinogens other than LSD ${ }^{\text {c }}$ | 0.7 | 1.3 | 1.6 | 1.4 | * | 1.1 |
| Ecstasy (MDMA) ${ }^{\text {b }}$ | 1.3 | 1.9 | 1.2 | 2.4 | 1.3 | 1.5 |
| Cocaine | 1.8 | 1.8 | 3.0 | 2.2 | 1.0 | 1.4 |
| Crack ${ }^{\text {c }}$ | 0.1 | 0.1 | * | 0.2 | 0.2 | * |
| Other Cocaine ${ }^{\text {d }}$ | 1.8 | 1.5 | 3.2 | 1.8 | 0.8 | 1.3 |
| Heroin | * | 0.2 | * | 0.3 | * | 0.1 |
| Narcotics other than Heroin ${ }^{\dagger}$ | 1.2 | 2.7 | 1.4 | 2.8 | 1.0 | 2.7 |
| Amphetamines, Adjusted ${ }^{\text {f,g }}$ | 4.8 | 4.6 | 6.7 | 5.3 | 3.4 | 4.0 |
| Crystal Methamphetamine (Ice) ${ }^{\text {e }}$ | * | 0.4 | * | * | * | 0.7 |
| Sedatives (Barbiturates) ${ }^{\text {f }}$ | 0.7 | 1.5 | 0.5 | 1.2 | 0.9 | 1.7 |
| Tranquilizers ${ }^{\dagger}$ | 1.7 | 1.5 | 2.3 | 1.3 | 1.3 | 1.6 |
| Alcohol | 63.1 | 56.0 | 64.5 | 60.8 | 62.0 | 52.3 |
| Been Drunk ${ }^{\text {b }}$ | 42.6 | 34.1 | 45.5 | 42.5 | 40.4 | 27.8 |
| Flavored Alcoholic Beverages ${ }^{\text {n }}$ | 32.9 | 32.5 | 23.5 | 33.9 | 39.3 | 31.4 |
| Cigarettes | 12.9 | 24.6 | 16.4 | 27.5 | 10.3 | 22.3 |
| E-cigarettes ${ }^{\text {h }}$ | 9.7 | 15.4 | 9.1 | 20.4 | 10.1 | 11.3 |
| Large Cigars ${ }^{\text {h }}$ | 8.4 | 4.6 | 10.3 | 10.1 | 7.0 | * |
| Flavored Little Cigars ${ }^{\text {n }}$ | 9.8 | 10.6 | 16.8 | 11.8 | 4.8 | 9.7 |
| Regular Little Cigars ${ }^{\text {n }}$ | 8.6 | 5.5 | 13.7 | 12.0 | 5.1 | * |
| Steroids ${ }^{\text {e }}$ | * | 0.8 | * | 0.8 | * | 0.8 |
| Approximate Weighted $N=$ | 1,030 | 660 | 440 | 290 | 590 | 370 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' *' indicates a prevalence rate of less than $0.05 \%$.
See footnotes following Table 8-4.

## TABLE 8-4

Thirty-Day Prevalence of Daily ${ }^{\text {i }}$ Use for Various Types of Drugs, 2014:
Full-Time College Students vs. Others among Respondents 1 to 4 Years beyond High School by Gender
(Entries are percentages.)

|  | Total |  | Males |  | Females |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Full-Time College | Others | Full-Time College | Others | Full-Time College | Others |
| Marijuana | 5.9 | 10.8 | 8.7 | 13.2 | 3.9 | 9.0 |
| Cocaine | * | * | * | * | * | * |
| Amphetamines, Adjusted ${ }^{\text {f,g }}$ | 0.2 | 0.6 | 0.1 | 0.8 | 0.3 | 0.4 |
| Alcohol |  |  |  |  |  |  |
| Daily | 4.3 | 4.1 | 5.4 | 5.8 | 3.5 | 2.8 |
| 5+ Drinks in a Row in Last 2 Weeks | 35.4 | 29.3 | 43.3 | 39.3 | 29.6 | 21.7 |
| Cigarettes |  |  |  |  |  |  |
| Daily | 5.2 | 16.3 | 5.7 | 16.8 | 4.8 | 16.0 |
| 1/2 Pack+/Day | 2.4 | 10.1 | 2.8 | 9.8 | 2.2 | 10.4 |
| Approximate Weighted $N=$ | 1,030 | 660 | 440 | 290 | 590 | 370 |

Source. The Monitoring the Future study, the University of Michigan.
Notes. ' *' indicates a prevalence rate of less than $0.05 \%$.
See footnotes on the following page.

## Footnotes for Tables 8-1 through 8-4

${ }^{\text {a }}$ Use of any illicit drug includes any use of marijuana, hallucinogens, cocaine, heroin or other narcotics, amphetamines, sedatives (barbiturates), or tranquilizers not under a doctor's orders.
${ }^{\mathrm{b}}$ This drug was asked about in three of the six questionnaire forms. Total $N$ in 2014 for college students is approximately 520.
${ }^{\text {c }}$ This drug was asked about in five of the six questionnaire forms. Total $N$ in 2014 for college students is approximately 860.
${ }^{\text {d }}$ This drug was asked about in four of the six questionnaire forms. Total $N$ in 2014 for college students is approximately 690.
${ }^{\mathrm{e}}$ This drug was asked about in two of the six questionnaire forms. Total $N$ in 2014 for college students is approximately 340.
'Only drug use that was not under a doctor's orders is included here.
${ }^{9}$ Based on the data from the revised question, which attempts to exclude inappropriate reporting of nonprescription amphetamines.
${ }^{\mathrm{h}}$ This drug was asked about in one of the six questionnaire forms. Total $N$ in 2014 for college students is approximately 170.
'Daily use is defined as use on 20 or more occasions in the past 30 days except for cigarettes, measured as actual daily use, and 5+ drinks, measured as having five or more drinks in a row in the last two weeks.

## Chapter 9

## TRENDS IN DRUG USE AMONG COLLEGE STUDENTS AND THEIR NONCOLLEGE PEERS

In recent years college students and high school seniors showed simultaneous increases in marijuana use as well as in the index of any illicit drug use. This secular trend differed from prior trends in which drug use increases among college students either preceded or followed those among younger students. During the 1960-70s epidemic, illicit drug use increased dramatically among U.S. college students, then spread quickly to their non-college-attending peers and eventually down the age spectrum to high school and even middle school students. The diffusion process seemed to have reversed during the subsequent relapse in the 1990s, when use increased first among those in early adolescence and then radiated up the age spectrum as those cohorts grew older (reflecting a cohort effect). Use subsequently declined among adolescents; this decline, like the preceding increase, radiated up the age spectrum. In the past several years there has been some evidence of a more recent cohort effect emerging, with marijuana use first rising among high school seniors, particularly from 2009 through 2012 (followed by a leveling) and then rising among college students and their noncollege peers, particularly from 2011 through 2013 (also followed by a leveling).

Again, we define college students as follow-up respondents (i.e., high school graduates) one to four years past high school who report that they were taking courses as full-time students in a two- or four-year undergraduate college at the beginning of March in the year in question.

Trend data are also provided on the noncollege high school graduates who are also one to four years past high school but do not meet our definition of college students (Figures 9-1 through 916c). This is an important comparison group for the college students and an important group by itself given much less is known about substance use among non-college-attending youth. Because the proportion of an age group in college declines steadily with the number of years beyond high school, this comparison group is slightly older on average than the college-enrolled group.

The proportion of young adult high school graduates one to four years beyond high school who attend college full-time has increased considerably since the MTF follow-ups began. In 2014, about $61 \%$ of the weighted number of follow-up respondents one to four years past high school met our definition of college students, compared with only $38 \%$ in the 1980 survey. This means, of course, that the proportion of our annual follow-up samples that is in the noncollege group of the same age has diminished.

The difference between the college group and the noncollege group provides an estimate of the degree to which college students’ usage levels for various substances are above or below other high school graduates in this age band. Were we able to include the high school dropout segment
in the calculation for the noncollege group, many of the differences with the college-enrolled would be accentuated. ${ }^{1}$

For each year, approximately $1,000-1,500$ weighted respondents constitute the college student sample (see Table 9-5 for numbers [ $N$ s] per year) and roughly 700-1,700 respondents constitute the noncollege group one to four years beyond high school. Trend comparisons for these two groups are provided in this chapter. The reported results begin with 1980, the first year that enough follow-up surveys had accrued to characterize young people one to four years past high school. The 2014 survey is thus the $35^{\text {th }}$ in the annual series on college students and non-collegeattending youth 1 to 4 years out of high school.

Throughout much of the chapter, trends for the $12^{\text {th }}$-grade samples are included for comparison purposes. It is important to keep in mind that the total $12^{\text {th }}$-grade samples are shown and that there are substantial differences in rates of substance use within those samples between the college-bound and those who do not plan to complete four years of college. As shown extensively in Volume $I^{2}$ and in Occasional Paper $83,{ }^{3} 12^{\text {th }}$-grade students expecting to complete college are far less likely to smoke cigarettes and also less likely to use most other substances. So when considering figures that show higher rates of use among all $12^{\text {th }}$ graders (regardless of college expectations) than among college students, it should not be concluded that usage declined after college entrance; the college-bound were already lower in usage rates than other $12^{\text {th }}$ graders for almost all substances.

One additional point is relevant to interpreting differences over time for those attending college and those not attending college, both in terms of the differences between them and trends over time for either taken separately: the proportion of college students who are female has risen substantially since 1980 . In 1980, females constituted about $50 \%$ of our college respondents, but by 2014 they constituted $57 \%$. Females thus are a declining proportion of the noncollege group. As will be discussed below, we have charted the trends separately for male and female college students to permit an assessment of what effect these changing proportions may have on the overall rates observed for college students.

[^81]
## TRENDS IN PREVALENCE, 1980-2014: COLLEGE STUDENTS VERSUS THOSE NOT ENROLLED IN COLLEGE

- The proportion of college students using any illicit drug continued to rise gradually from 2006 to 2013, driven primarily by an increase in marijuana use. It then declined slightly in 2014. During the first decade of reportable MTF college student data, between 1980 and 1991, college use of any illicit drug dropped fairly steadily-from $56 \%$ to $29 \%$, a decrease of nearly half (Table 9-2 and Figure 9-1). After 1991, annual (and also 30-day) prevalence held fairly steady for a couple of years before beginning to rise, reaching $38 \%$ in 1998 and again in 2001-still well below the 1980 peak. There was a modest rise in any illicit drug use by college students after 2006 (when it was at $34 \%$ ) to an annual prevalence rate of $41 \%$ in 2013, followed by a non-significant decline to $39 \%$ in 2014. Noncollege youth moved similarly until 2000, when they exhibited a four-percentagepoint increase due largely to their sharper increases in marijuana, amphetamine, and tranquilizer use; the noncollege rate did not differ much from the rate for college students for several years, but in 2014 it was significantly higher than the college students. (We should mention that because of the diminishing sample sizes for the noncollege group, their estimates have become less stable in recent years, as is illustrated in Figure 91.) Twelfth-grade use of any illicit drug showed a trajectory parallel to the other two groups in the decline phase through 1991, followed by a much steeper increase through 1997, and then a leveling after 1998. Use among high school seniors declined some after 1999 (by about six percentage points), whereas among college students there was less decline. As a result, all three groups had quite similar prevalence rates by 2007. After 2009, use increased among the high school seniors but did so somewhat later among the college students, creating some new divergence before they converged in 2013. The divergence among the three groups and subsequent convergence of college students and high school seniors, at least, reflect cohort effects. After 2007 (2006 for college students), all three groups showed some increase in the annual prevalence of any illicit drug use-due largely to a turnaround in their use of marijuana, as described below-but the increase has been greatest and longest among the $12^{\text {th }}$ graders, likely once again giving rise to a cohort effect. Usage estimates for the noncollege segment have been rather unstable in recent years (see Figure 9-3a), likely due to the smaller sample sizes that comprise that segment. Therefore, we are not inclined to interpret the apparent rise in this segment in 2014.

Figure 9-2 shows that since 1980, of the three groups the noncollege segment has usually had the highest levels of use of any illicit drug other than marijuana. The exception was during most of the 1990s (the relapse phase in the epidemic), when use among $12^{\text {th }}$ graders rose sharply and exceeded the noncollege segment. The noncollege group also showed a slightly lagged increase during that phase but passed the $12^{\text {th }}$ graders in the early 2000s.

An increase in use of any illicit drug other than marijuana among college students also occurred after around 1994, but it lagged considerably behind the upturn among $12^{\text {th }}$ graders, reflecting a cohort effect. From 1986 through 2009-a twenty-three-year interval-college students exhibited the lowest rates of use. In the earlier period from 1980 to 1994, use of any illicit drug other than marijuana declined appreciably among college students, with their annual prevalence dropping by nearly two thirds from $32 \%$ to

12\% (Table 9-2). This generally paralleled the trends for the noncollege group and the $12^{\text {th }}$ graders, indicating a secular trend during that period. All three groups showed some increase in use during the early 1990s; however, the rise in use of illicit drugs other than marijuana was again not as sharp among college students as it was in the other two groups, and it began two years later than among the $12^{\text {th }}$ graders and one year later than among the noncollege group (Figure 9-2). This pattern is more consistent with a cohort effect.

After 1999, use among $12^{\text {th }}$ graders leveled off, whereas the college students and noncollege segment showed a continuing increase. In fact, the college students and noncollege respondents continued to show an increase in their annual prevalence rate from 1998 through 2004, before declining from 2005 through 2007 among the noncollege group and through 2008 among the college students. From 2008 to 2012 the rate increased among the college students and declined steadily among those in the noncollege group, closing the considerable gap between the noncollege group and both college students and $12^{\text {th }}$ graders. In 2012 all three groups had comparable annual prevalence rates at $17 \%-18 \%$. In 2013 and again in 2014, college students and their noncollege peers showed increases in use while use among $12^{\text {th }}$ graders remained unchanged in 2013 and declined in 2014. The increase in use of any illicit drug other than marijuana among college students, from $15 \%$ in 2008 to $21 \%$ in 2014, is significant. Thus by 2014 use by college students exceeded that by $12^{\text {th }}$ graders, approached that of the noncollege segment, and reached a new recent peak rate. This increase appears attributable mostly to college students' increased use of amphetamines (without a doctor's orders) and of ecstasy.

Trends during the 1980s for most individual classes of illicit drugs tended to be similar among the three groups. During the 1990s there was more divergence, with college students usually showing later and lesser increases than $12^{\text {th }}$ graders, and, for some drugs, less increase than their noncollege peers.

- Since 2000, the annual prevalence of marijuana use among college students reached a recent high point of $36 \%$ in 2001, declined to $30 \%$ in 2006 , and then increased to $36 \%$ again by 2013. The increase did not continue into 2014, however, when there was a nonsignificant decline of 1.1 percentage points. Among college students, annual prevalence was $34 \%$ in 2014, up from $30 \%$ in 2006. Among the noncollege group the increase since 2007 was more erratic, but in 2014 their annual prevalence reached $37 \%$-slightly above that of the college students. In an earlier period, from 1981 through 1991, annual prevalence of marijuana use dropped by nearly half from $51 \%$ to $27 \%$ among college students (Figure 9-3a). The noncollege group showed a comparable decline over the same time interval, as did the $12^{\text {th }}$ graders, and the annual prevalence rates for all three groups were fairly comparable across that interval. Use among $12^{\text {th }}$ graders rose sharply after 1992, while use among college students and noncollege respondents rose more gradually. From 1991 through 1998, annual prevalence rose by 14 percentage points among $12^{\text {th }}$ graders, compared to 10 percentage points among college students and 7 percentage points among the noncollege group. As a result, the $12^{\text {th }}$ graders came to exhibit the highest rate of marijuana use in the last half of the 1990s, but they were the first to show a leveling off in marijuana use (in 1998), followed by the college students in 1999 and
the noncollege group in 2002. All three groups had very similar rates of use by 2005 after some decline, particularly among the $12^{\text {th }}$ graders. The college students and high school seniors both showed some continuing decline in 2006, but they then both showed a gradual increase in their marijuana use from 2006 through 2011, with the sharpest increase occurring among the $12^{\text {th }}$ graders, indicating in both cases the end of the gradual improvement in marijuana use seen earlier in the decade.
- From 2007-2014, daily marijuana use among college students rose from 3.5\% to 5.9\%, which is the highest rate observed since 1980. Daily marijuana use (Figure 9-3b) was consistently the highest among the noncollege stratum, next highest among the $12^{\text {th }}$ graders, and lowest among those in college until 2014, when the college and noncollege groups converged. The differences have been greatest in periods of relatively high use and diminished considerably when use was at its nadir at the beginning of the 1990s. Daily marijuana use has varied widely in all three groups since 1980, when data on college students and their noncollege age peers were first available. The period from 1980 through 1992 saw a large proportional decline in daily use in all three groups, with rates falling by half or more. Since 1992, the rates have climbed substantially in all three groups, though there were periods of leveling: among high school seniors from 1999 through 2009, among college students from roughly 2003 through 2006, and among the noncollege group from 2003 through 2010. While daily use remained level among the $12^{\text {th }}$ graders since 2011, it has continued to rise gradually among college students and more steeply among their noncollege peers (for whom daily use in 2014 reached 11\%).
- Synthetic marijuana (.Figure 9-4) was first included in the study in 2011 and had an annual prevalence among college students of $7.4 \%$ at that time. Since then, use of this drug has dropped precipitously, reaching $0.9 \%$ in 2014, including a significant 1.4 percentage point decline between 2013 and 2014. Use among the noncollege and 12th grade segments also have declined sharply since 2011, but still show higher rates than college students. In the past three years, the 12th graders have maintained the highest annual prevalence,
- Use of salvia, another fairly recent arrival to the drug scene, was added to the MTF questionnaires in 2009. It has likewise seen a sharp decline in popularity among college students. Annual prevalence was 5.8\% in 2009 but fell to 1.1\% by 2014.
- Bath salts-containing cathinones, a synthetic stimulant-the use of which was first measured in 2012, have shown only trace levels of use among college students in the years since ( $0.3 \%$ or less).
- Amphetamine use without medical supervision among college students (Figure 9-12) rose substantially from 2008 (5.7\%) through 2012 (11.1\%) but has not risen any further since ( $10.1 \%$ in 2014). The 1980s saw a considerable decline of annual prevalence among college students, from $22 \%$ in 1981 to $4 \%$ in 1991. Proportionately, this was a larger drop than that among $12^{\text {th }}$ graders, but fairly parallel to the overall change among the noncollege group. Amphetamine use among college students and their noncollege peers began to increase in both groups during the relapse phase in the drug epidemic after 1992 and 1993, respectively, through 2001, with a leveling in 2002. Still, during the

1990s and early 2000s, the prevalence rates for amphetamine use in all three groups remained well below the rates observed in the early 1980s. Since 2002, there have been some divergence .among the three groups, with amphetamine use among college students (who have consistently had the lowest rate of use since the mid-1980s) holding steady through 2008, while use among $12^{\text {th }}$ graders and the noncollege group declined, nearly closing the gap. In 2009, prevalence rates were similar for the college and noncollege groups ( $7.5 \%$ and $7.7 \%$ ), and slightly lower among $12^{\text {th }}$ graders ( $6.6 \%$ ). A recent increase in amphetamine use among just the college students now places them highest among the groups in 2014 (10.1\%), up from 5.7\% in 2008. It seems likely that an increased interest in using these drugs to improve academic performance has contributed to this change. In 2014 Adderall was used by six times as many college students (9.6\%) as was Ritalin (1.6\%) in 2014.

- Use of inhalants has been very low among college and noncollege respondents since 1980, when rates were first measured (Figure 9-5), and it remained low in 2014 at $1.3 \%$. down from a peak of $4.1 \%$ in 1997. Twelfth graders have consistently had considerably higher rates of inhalant use than either of these segments of the young adult population; and as is documented in Volume $I$, the $8^{\text {th }}$ and $10^{\text {th }}$ graders have had higher levels of use still. There has thus been an age effect, with use declining with increasing age. All three groups have trended in parallel, with an increase in use from around 1981 through 1995, followed by a long decline thereafter. The increase and subsequent decline were substantially more pronounced among $12^{\text {th }}$ graders, opening and then shrinking the gap between them and the two young adult groups.
- Annual prevalence of $\boldsymbol{L S D}$ remained fairly low among college students in 2014 (2.2\%, Figure $9-7$ ), compared with $4.5 \%$ in the noncollege group and $2.5 \%$ among $12^{\text {th }}$ graders. During the early 1980s, one of the largest proportional declines observed among college students occurred with this drug: annual prevalence fell from $6.3 \%$ in 1982 to $2.2 \%$ in 1985. After 1989, use in all three groups increased, with the prevalence among college students reaching $6.9 \%$ by 1995. After 1995, use fell gradually among college students, their noncollege peers, and $12^{\text {th }}$ graders until 2001, followed in 2002 by a particularly sharp decrease in all groups. As a result there was a considerable convergence in usage rates, which has remained since then. College students maintained lower levels of use than the other two groups for most of the life of the study until 2007. Use rose slightly in all three groups in 2008, but there has been little consistent difference among them. In general the three groups have moved in parallel, suggesting a secular trend for this drug, at least through 2013.
- Among college students the annual prevalence for hallucinogens other than LSD was $3.2 \% \%$ in 2014. Use of hallucinogens other than LSD (which primarily involves the use of psilocybin known as mushrooms or "shrooms") followed a track somewhat parallel to LSD use, at least up until about 2000 (Figure 9-8). Use declined in all three groups from the early 1980s through the early 1990s, followed by rising use during the 1990s and then some leveling. But the secular trends for these other hallucinogens diverged from those for LSD after about 2000, with an increase in their use, including among college students, just before and after the drop off in LSD use in 2002. While the use of LSD was higher
than that of the other hallucinogens in the first two decades of the study, its use is now lower.
- The use of ecstasy (MDMA) by college students stood at $5.0 \%$ in 2014, up from $2.2 \%$ in 2007 (Figure 9-8), and annual prevalence for the noncollege group reached $6.5 \%$. College students' use and use by their noncollege peers began to rise after 1994 and their rates tracked closely through about 2000 (Figure 9-9). The $12^{\text {th }}$ graders had questions about ecstasy use added in 1996 and their usage rates similarly tracked those of the other two groups through about 2000. After 1997 there was a sharp increase in use in all three groups. The annual prevalence for college students, for example, rose from $2.4 \%$ in 1997 to $9.2 \%$ in 2001 and considerably more among the noncollege group. Use in all three groups declined sharply from 2001 to 2004, when annual rates were at $2.2 \%$ for college students, $2.7 \%$ for $12^{\text {th }}$ graders, and $4.0 \%$ for the noncollege segment. Both the college and noncollege groups showed some increase in use by 2014. While none of these groups has usage rates comparable to the high rates from 2001, all three showed some resurgence in use in recent years, though over the past few years, use among $12^{\text {th }}$ graders has fallen fairly sharply. In general, the patterns of change across time seem mostly to reflect a secular trend.
- Since data became available in 1980, college students have had the lowest rates of nonmedical sedative (barbiturate) use among the three groups (Figure 9-13). At that early date, sedative (barbiturate) use was already quite low among college students (at 2.9\%), but it still fell by more than half to $1.3 \%$ by 1985 . This proportional decline was sharper than among $12^{\text {th }}$ graders and less sharp than among the noncollege respondents, both groups that started at considerably higher levels of use. Annual prevalence remained essentially unchanged between 1985 and 1993 for all three groups. A gradual increase in use occurred between 1994 and 2004 for college students and between 1993 and 2005 for the other two groups. After 2005, declines in use appeared in all three groups through 2011 (2013 for the noncollege stratum), before showing a rise in use since then. In fact use has been increasing since 2011 among college students, rising from $1.7 \%$ to $3.1 \%$ in 2014.
- Figure 9-14 shows that the annual prevalence of non-medical tranquilizer use among college students dropped by nearly three fourths in 1980-1994 from $6.9 \%$ to $1.8 \%$-a period in which use declined in the other two groups as well. After this long period of decline, tranquilizer use by college students increased gradually, returning to $6.9 \%$ by 2003. Use by the noncollege segment and by $12^{\text {th }}$ graders dropped more sharply from 1980 through 1992, eliminating the differences among the three groups. Use rose after 1992 for all, but the noncollege group showed the largest gain after 1999, again creating some differences. By 2002, tranquilizer use was once again at or near its recent high in all three groups. In 2003, however, the noncollege group and the $12^{\text {th }}$ graders showed their first declines in recent years, thus narrowing the differences among the three groups. From 2004 through 2014, all three groups showed declines in use.
- The non-medical use of narcotics other than heroin ${ }^{4}$ (Figure 9-11a) rose after about the mid-1990s for all three young adult groups. The overall trends in use have been quite parallel to those for sedatives (barbiturates) and tranquilizers. Prior to then, the use of narcotics other than heroin by college students was down to about half by 1994 from what it was in 1980 ( $2.4 \%$ in 1994 vs. $5.1 \%$ in 1980) as a result of a fairly gradual decline over that 14 -year interval. This trend closely paralleled use among participants' noncollege counterparts and $12^{\text {th }}$ graders. As with a number of other drugs, use among $12^{\text {th }}$ graders began to rise after 1992, but use among college students did not begin to increase until after 1994, likely due to a cohort effect. In 2003, annual prevalence among college students reached a historic high point of $8.7 \%$ before leveling for three years. It then declined some from $8.8 \%$ in 2006 to $4.8 \%$ by 2014 . Use among $12^{\text {th }}$ graders leveled after reaching a historic high of $9.5 \%$ in 2004, but it then declined to $6.1 \%$ by 2014 . The noncollege group emerged after 2000 as the most heavily using group for the first time, supplanting the high school seniors, as their use kept increasing through 2005, reaching an all-time high of $13 \%$. After that, use in the noncollege group declined to $7.8 \%$ by 2014 but remains the highest of the three groups. It thus appears that all three groups have shown fairly steady and parallel declines in the use of these dangerous drugs since the early to mid-2000s, following a substantial increase in use by all three in the 1990s and early 2000s.
- Although data about non-medical of the specific narcotic drugs, OxyContin and Vicodin, .were not collected until 2002 (Figures 9-11b and 9-11c and Table 8-2), these drugs help to explain past differences between the college and noncollege segments in use of narcotics other than heroin. The noncollege group had annual prevalence rates up to twice that for college students in the use of both drugs when their use was first measured in 2002, but the comparisons among the three groups have changed since then.

Annual prevalence of non-medical OxyContin use among college students rose fairly steadily, from $1.5 \%$ in 2002 to $5.0 \%$ in 2009, before dropping significantly to $1.3 \%$ in 2014 (Figure 9-11c). Use in the noncollege segment rose from 2002 (3.3\%) to 2009 (6.2\%);.began to fall in 2010 and continued to fall in 20143 (reaching 3.7\%).4.The trend line has been quite uneven, likely due to the limited numbers of cases in this segment. (Questions about OxyContin and Vicodin are in only three of the six questionnaire forms.) Among $12^{\text {th }}$ graders, OxyContin use rose from $4.0 \%$ in 2002 to $5.1 \%$ in 2010, before declining to $3.3 \%$ in 2014. It is clear that OxyContin use increased among college students between 2002 and 2009, closing the previously existing gap among the three groups; however, use has declined sharply among the college students since then, again opening a sizeable gap between them and the other two groups.

Vicodin use without medical supervision (Figure 9-11b) showed a somewhat different pattern of change, with annual prevalence among all three groups remaining fairly level—and substantially higher than use of OxyContin—from 2002 through 2008, and

[^82]then declining in 2010. As with OxyContin, the noncollege segment has consistently had higher Vicodin use than the college students. Twelfth-grade Vicodin use has been in between. Because of the limited numbers of cases, the trends in use of Vicodin and OxyContin have generally been uneven in the young adult groups. Since roughly 2009, reported Vicodin use has declined fairly sharply in all three groups.

- Over recent years, the rates of cocaine use among college students, noncollege peers, and $12^{\text {th }}$ graders (Figure 9-10) have declined to levels below those in the 1990s and far below those in the 1980s. The trend line for college students showed an increase in cocaine use in 2014 as annual prevalence among college students increased a significant 1.7 percentage points to $4.4 \%$. However, we are inclined to question whether this change is real, given that neither the $12^{\text {th }}$ graders nor the noncollege group showed such an upturn. Another year of data should clarify this point.

The early to mid-1980s saw a level period of cocaine use with greater usage among college students and their noncollege peers than among $12^{\text {th }}$ graders. It was followed by a dramatic drop in annual prevalence among college students (nearly nine tenths, from $17.1 \%$ in 1986 to $2.0 \%$ by 1994) and noncollege counterparts (from $18.9 \%$ in 1986 to $5.1 \%$ in 1994). A cohort effect emerged as cocaine use began to rise among $12^{\text {th }}$ graders after 1992, among the college segment after 1994, and among the noncollege segment after 1995. Since 2000 the $12^{\text {th }}$ graders and college students have had similar rates of use and parallel trends, while use in the noncollege stratum has been considerably higher. Since around 2006 all three groups have shown declines in use, with the noncollege group showing the greatest decline. All three groups now have rates of cocaine use below those attained in the relapse phase of the illicit drug epidemic in the 1990s, with the noncollege group showing the greatest decline but still the highest level of use. These patterns of change suggest that a secular trend was underway through most of the 1980s, combined with a considerable age effect. After 1992 a cohort effect emerged through most of the 1990s, and since 2000 or so through 2012 a secular trend re-emerged with all three groups moving in parallel for the most part.

- College students have shown some unique shifts in alcohol use. Despite different trend patterns among the three groups, college students have exhibited the highest levels and greatest constancy in occasions of heavy drinking since they were first measured in the MTF surveys in 1980 (Figure 9-15d). Occasions of heavy drinking are defined as having five or more drinks in a row at least once during the prior two weeks. Over the 34 -year interval from 1980 through 2014, college students' rates of such drinking declined nine percentage points (from $44 \%$ to $35 \%$ ), while noncollege respondents' rates declined 12 percentage points ( $41 \%$ to $29 \%$ ) and high school seniors' rates declined 22 percentage points (41\% to 19\%).

As can be seen in Figure 9-15d, both the noncollege segment and $12^{\text {th }}$ graders showed fairly substantial declines in the prevalence of occasions of heavy drinking from 1981 through 1990. In contrast, college students showed no decline from 1981 to 1986 and then only a modest decline of five percentage points from 1986 through 1993. Between 1981 (when all three populations were very close in use) and 1992, this measure of heavy drinking dropped by 14 percentage points among $12^{\text {th }}$ graders, by 11 percentage points
among the noncollege respondents, but by only two percentage points among college students. After 1992, occasions of heavy drinking began to rise among $12^{\text {th }}$ graders, while still declining some among college students-likely reflecting a cohort effect emerging during this period, similar to that observed for a number of illicit drugs-narrowing the gap somewhat. Drinking at that level subsequently began to increase among the noncollege segment after 1995, and by less among college students after 1996-modest increases that continued into 2001. Between 2001 and 2008, college students held fairly steady in their rates before showing some decline, while the noncollege segment held steady from roughly 2003 to 2007, followed by some decline and then a leveling. Meanwhile, among $12^{\text {th }}$ graders, occasions of heavy drinking started a gradual decline after 1998 that continued into 2014, enlarging the difference between them and the other two groups. Once again there is evidence of cohort effects since the early 1990s, with the inflection points occurring later for the older strata.

Why did college students’ heavy drinking decline so little for a decade (1981-1991) compared to their noncollege peers and $12^{\text {th }}$ graders? One possibility is that campuses provided some insulation from the effects of changes in the drinking age laws that took place in many states during that interval. Similarly, entrenched in many college campuses is a culture of binge drinking that has proven impervious to many societal trends and intervention attempts. ${ }^{5}$ Also, individuals who are under the legal drinking age in college are mixed in with peers who are of legal age to purchase alcohol; this was no longer true in high schools and less true, perhaps, for many of those ages 19 to 22 who were not in college . Finally, much alcohol advertising and promotion was and is directed specifically at the college student population. Nevertheless, it appears that the continuing decline in heavy drinking among $12^{\text {th }}$ graders is beginning to resonate among college students.

College students’ daily drinking estimates (Figure 9-15c) leveled in recent years, standing at $4.3 \%$ in 2014. Earlier trends appeared a little less stable, perhaps due to smaller sample sizes at those times, going from around $6.5 \%$ in the early 1980s to a considerable decline from 1984 through 1995 (to $3.0 \%$ ), followed by a period of some increase during and after the relapse phase in the drug epidemic in the 1990s, reaching $5.0 \%$ in 2002. Since 2002, daily drinking among college students has fluctuated at about $4 \%$ without a clear downward trend as has been seen among the $12^{\text {th }}$ graders. Twelfth graders showed a somewhat similar pattern of daily drinking with a long period of decline, followed by an earlier reversal beginning in 1994. After 1998, $12^{\text {th }}$-grade daily drinking resumed its decline, reaching $2.1 \%$ by 2011 and leveling thereafter. Of the three groups, $12^{\text {th }}$ graders have typically had the lowest rates of daily drinking. The noncollege respondents have generally had the highest rate of current daily drinking and have shown the most change in daily drinking trends. After a 2008 decline in daily use among noncollege respondents, daily drinking levels have been fairly comparable between the college students and their noncollege peers.

[^83]- The 30-day prevalence of cigarette smoking (Figure 9-16a) among college students has declined dramatically over more than a decade, falling by more than half from a recent high of $31 \%$ in 1999 to $13 \%$ in 2014, and their daily smoking rate has fallen by more than two thirds over the same interval (from $19 \%$ to $5 \%$ ). In the early 1980 s, cigarette smoking among U.S. college students declined modestly. Thirty-day prevalence for college students fell from $26 \%$ to $22 \%$ between 1980 and 1984, remained fairly stable through 1990 (22\%), then increased gradually but substantially, reaching 31\% by 1999. In 2000 the first evidence of a new decline in smoking among college students began to appear, two years after smoking had begun to decline among $12^{\text {th }}$ graders-this lag reflecting a cohort effect. The noncollege group, which has consistently had the highest smoking rate of the three groups, showed a fairly consistent decline from 1980 through 1990, an offsetting increase through 2001, and then a considerable decline since then. Because the noncollege segment has shown a more moderate decline so far, their smoking rate is now about twice that of the college students, and proportions of daily smokers are about three times as high (Figure 9-16b).

While smoking rates have consistently been lower among college students than the noncollege segment, the trend lines for these two groups converged some after 1984, as smoking rates more or less stabilized among college students but continued to decline among young adults not in college (Figure 9-16a). In fact, between 1989 and 1991, use began to rise among college students while continuing to decline among noncollege respondents. Both groups showed fairly parallel increases in smoking between about 1991 and 1999, after which use continued to increase among the noncollege segment but began to decline among college students, opening up a large difference between them. (Twelfth graders exhibited an increase from 1992 to 1997- peaking two to three years prior to the older groups-reflecting a cohort effect, and their use has declined significantly since then.) All three groups have seen very substantial declines since those peaks, and the rates for college students and $12^{\text {th }}$ graders have largely converged, but use among the noncollege group remains far higher than the other two groups.

The popularity of Camel cigarettes among the college-bound may help to explain some of the narrowing of the gap between college students and their non-college-attending peers in the 1990s. The Joe Camel advertising and promotion campaign, which commenced in the late 1980s and ended in the late 1990s, may have succeeded in initiating more college students (particularly males) to smoking than had been the case previously or since.

- For many prescription-type drugs-amphetamines, sedatives (barbiturates), and tranquilizers-differences between college students and their noncollege peers narrowed over the years, particularly through the early 1990s. Much of this was due to general overall declines in usage rates during the 1980s, but may also reflect the increasing proportion of the age group going to college. After that, the differences between these two groups increased for sedatives (barbiturates) and tranquilizers as use in general grew.
- In sum, quite a number of drugs have been fading in popularity on American college campuses in recent years, and a similar pattern is found among youth who do not attend college. Two of the newer synthetic drugs --marijuana and salvia-have shown steep declines in use. Other drugs are showing more gradual declines, including narcotic drugs
other than heroin, sedatives, and tranquilizers-all used non-medically-as well as inhalants, hallucinogens, and bath salts. (Bath salts never really established a foothold on campuses or more generally among college age youth.) On the other hand, marijuana use increased from 2006 through 2013 before leveling. Daily marijuana use continues to grow, reaching the highest level seen in the past 35 years in 2014 (5.9\%). Amphetamine use grew fairly sharply on campus between 2008 and 2012, and it then stabilized at high levels not seen since the mid-1980s. Ecstasy use has made somewhat of a rebound since the recent low observed among college students in 2007. Cocaine use among college students is well below the 1980s and 1990s rates, but the significant increase in 2014 among college students suggests a need to watch this drug carefully in the future. The overall drug use trends among college students parallel the trends among $12^{\text {th }}$ graders, though after the early 1990s they were generally lagged by a few years; still, declines in many drugs from 1980 to 1990 were proportionately larger among 19- to 22-year-olds (both college and noncollege) than among $12^{\text {th }}$ graders. Despite parallel trends in the early $1990 \mathrm{~s}, 12^{\text {th }}$ graders showed larger, and usually earlier, increases in the use of a number of drugs in the years since; as indicated in Volume $I, 8^{\text {th }}$ and $10^{\text {th }}$ graders showed increases a year earlier than $12^{\text {th }}$ graders. Clearly the upsurge, or what we have called a "relapse phase" in the illicit drug epidemic during the 1990s, did not originate on the nation's college campuses, as did the earlier epidemic. The relapse originated among secondary school students-and the younger ones at that-and was carried up the age spectrum through generational replacement. In other words, it exhibited a cohort effect.


## GENDER DIFFERENCES IN TRENDS AMONG COLLEGE STUDENTS

As mentioned earlier, recent decades have seen a gradual rise in the proportion of college students who are female. Females constituted $50 \%$ of our 1980 sample of college students compared to $57 \%$ of our 2014 sample. Given that substantial gender differences exist in the use of some drugs, we have been concerned that apparent long-term trends in the levels of drug use among college students (and/or among the noncollege group) might actually be attributable to changes in the gender composition of that population. For this reason, in particular, we present separate trend lines for college males and females in the lower panels of Figures 9-1 through 916 c . We do not focus on noncollege youth in these figures or this subsection in large part due to the limited numbers of cases for subgroups.

In general, college student trends in use of the various drugs have been highly parallel for men and women, as an examination of the relevant figures will show. The most noteworthy exceptions are mentioned below.

- Certain drug use measures showed a convergence between the genders as use rates declined to low levels in the early 1990s. This was true for the use of any illicit drug and any illicit drug other than marijuana. Rates for male college students were consistently higher than those for female college students, although there was a convergence of the genders on both of these indices by 2014. The convergence on any illicit drug use is due largely to a convergence for marijuana, discussed next.
- Marijuana use has been consistently higher among college males than among college females. . There was some gender convergence in rates of marijuana use between 1980 and 1991 as overall use declined, and then some gender divergence between 1991 and 1999 as usage rates rose. After 2001, the two genders diverged further, with use among males remaining essentially unchanged through 2008 and use among females decreasing (Figure 9-3a). Since 2010, use among college males has remained fairly steady before declining some in 2014, whereas use among college females increased in 2012 -narrowing the gap--and then held steady.
- Daily marijuana use (Figure 9-3b) has generally been about twice as high among college males as their female counterparts throughout the study; since the mid-1990s, such use has risen more among males, especially since 2010, opening a wide difference. College females appear to have increased their daily use rates in the past two years. In 2014 the rates for college males and females, respectively, were $8.7 \%$ and $3.9 \%$.
- From 1999 to 2005, LSD use dropped more steeply among males than among females, offsetting sizeable previous differences in which males had higher use and bringing the genders close together at very low prevalence rates (Figure 9-7). The small increases in use that have occurred since 2005 have been greater among males.
- Use of hallucinogens other than LSD has dropped for both genders since 2002 or 2003, with percentages for males generally twice as .high or more as those for females (Figure 9-8).
- Rates of ecstasy (MDMA) use have been quite similar for male and female college students since measures were first introduced in 1989, and changes in their usage levels have tracked closely (Figure 9-9). Since 2007, college males have made more of a rebound in ecstasy use.; in 2014 annual prevalence was 4.3\% for college females and $5.9 \%$ for college males.
- Trends in the non-medical use of narcotics other than heroin have generally moved in parallel for both male and female college students, with males generally higher, except during the nadir in use at the beginning of the 1990s when their rates were equivalent. .(Figure 9-11a).
- After 1986, cocaine use, which had been substantially higher among males, dropped more steeply for males than for females in general, and among male college students in particular, considerably narrowing the sizable gap between genders (Figure 9-10). Since 1991, both genders have moved in parallel, with males reporting slightly higher usage rates. Both genders showed small and non-significant upticks in use in 2014.
- Non-medical amphetamine use (Figure 9-12) also showed some convergence in the 1980s due to a greater decline among males; the two genders showed virtually equivalent rates from 1986 through 1998. Since 1998 males have had slightly higher annual prevalence rates generally. Both genders have shown some gradual increase in amphetamine use since 1992; there has also been some modest divergence between them,
especially since 2009, perhaps due to amphetamine use . for studying being more common among males.
- The gender differences for non-medical sedative (barbiturate) and tranquilizer use have been modest through most of the life of the study, with college males usually having slightly higher rates than their female counterparts. After 1995, a somewhat larger gap emerged for tranquilizers, again with males being higher. Tranquilizer use by college females peaked in 2003, briefly closing the gender gap, but use by males has consistently been slightly higher since then. Both genders have been showing declines in the use of both drugs since the early 2000s; however, sedatives, which no longer show a gender difference, have shown a slight rebound in use by both genders since 2011 (Figures 9-13 and 9-14).
- Among college students, the annual prevalence of alcohol use has been virtually identical for the two genders since 1980, when use by college students and their noncollege peers was first reported (Figure 9-15a). Both college males and females have shown a very gradual and modest decline over the past 34 years. Prior to 2000, 30-day alcohol prevalence showed modest differences, with males slightly higher (Figure 9-15b); however, that difference largely disappeared by 2000. Since then, college males have had had very slightly higher 30-day rates more years than not.

College males have consistently had considerably higher rates of daily drinking than college females (Figures 9-15c and 9-15d). But since about 2004 or 2005 the gender gap in daily drinking has been narrowing, with an overall increase by college females and an overall decrease among college males.

- Binge drinking (having one or more occasions of having five or more drinks in a row in the prior two weeks) has shown a considerable gender gap, but a gradual long-term decline among college males since about 1985 that has reduced the gap (Figure 9-15d). As there has been less change among females, whose use has been consistently less than that of males, the gender gap has narrowed.
- For the interval between 1980 and 1988, the 30-day prevalence of cigarette smoking was consistently higher among college females than males (Figure 9-16a). However, the gaps in 30-day prevalence narrowed because use by female college students declined considerably between 1980 and 1989, while use by male college students did not decline. After 1989, the gaps remained quite small and the genders reversed position, with college males catching up to and passing females in their rate of smoking by 1994 and then generally remaining higher thereafter. (A similar reversal had occurred among $12^{\text {th }}$ graders a few years earlier, so the reversal among college students probably reflected a cohort effect.) Both genders exhibited a considerable decrease in 30-day smoking between 1999 and 2011, leaving only a modest difference between them (although the trend line for college males was irregular during this interval). In 2014 the 30-day prevalence rates were $16 \%$ and $10 \%$ for college males and females, respectively. These rates followed a fairly sharp and statistically significant drop between 2011 and 2012 in smoking rates among female college students and little change among males. Daily smoking (Figure 9-16b) also was higher among college females than among college
males-this time up through 1994—after which the two genders have tracked rather closely.

While the rise in smoking among college students was longer term and more gradual than among the noncollege group and $12^{\text {th }}$ graders, it was nevertheless substantial, rising by nearly half between 1989 (21\%) and 1999 (31\%). This increase in smoking was sharper among college males than among college females, consistent with the notion that Camel cigarettes' promotion and advertising-which ended in the late 1990s-played a role in the overall increase. As we have reported elsewhere, Camels proved considerably more popular among males, especially among those college-bound and from more educated families. ${ }^{6}$

[^84]
## TABLE 9-1

## Trends in Lifetime Prevalence of Various Types of Drugs among College Students 1 to 4 Years beyond High School

(Entries are percentages.)


| Any Illicit Drug ${ }^{\text {a }}$ | 69.4 | 66.8 | 64.6 | 66.9 | 62.7 | 65.2 | 61.8 | 60.0 | 58.4 | 55.6 | 54.0 | 50.4 | 48.8 | 45.9 | 45.5 | 45.5 | 47.4 | 49.0 | 52.9 | 53.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Any Illicit Drug other than Marijuana ${ }^{\text {a }}$ | 42.2 | 41.3 | 39.6 | 41.7 | 38.6 | 40.0 | 37.5 | 35.7 | 33.4 | 30.5 | 28.4 | 25.8 | 26.1 | 24.3 | 22.0 | 24.5 | 22.7 | 24.4 | 24.8 | 25.5 |
| Marijuana | 65.0 | 63.3 | 60.5 | 63.1 | 59.0 | 60.6 | 57.9 | 55.8 | 54.3 | 51.3 | 49.1 | 46.3 | 44.1 | 42.0 | 42.2 | 41.7 | 45.1 | 46.1 | 49.9 | 50.8 |
| Inhalants ${ }^{\text {b }}$ | 10.2 | 8.8 | 10.6 | 11.0 | 10.4 | 10.6 | 11.0 | 13.2 | 12.6 | 15.0 | 13.9 | 14.4 | 14.2 | 14.8 | 12.0 | 13.8 | 11.4 | 12.4 | 12.8 | 12.4 |
| Hallucinogens ${ }^{\text {c,x }}$ | 15.0 | 12.0 | 15.0 | 12.2 | 12.9 | 11.4 | 11.2 | 10.9 | 10.2 | 10.7 | 11.2 | 11.3 | 12.0 | 11.8 | 10.0 | 13.0 | 12.6 | 13.8 | 15.2 | 14.8 |
| LSD ${ }^{\text {a }}$ | 10.3 | 8.5 | 11.5 | 8.8 | 9.4 | 7.4 | 7.7 | 8.0 | 7.5 | 7.8 | 9.1 | 9.6 | 10.6 | 10.6 | 9.2 | 11.5 | 10.8 | 11.7 | 13.1 | 12.7 |
| Hallucinogens other than LSD ${ }^{\text {c,x }}$ | 11.6 | 9.0 | 10.6 | 8.3 | 9.2 | 8.1 | 7.8 | 6.8 | 6.2 | 6.2 | 6.0 | 6.0 | 5.7 | 5.4 | 4.4 | 6.5 | 6.5 | 7.5 | 8.7 | 8.8 |
| Ecstasy (MDMA) ${ }^{\text {d }}$ | - | - | - | - | - | - | - | - | - | 3.8 | 3.9 | 2.0 | 2.9 | 2.3 | 2.1 | 3.1 | 4.3 | 4.6 | 6.8 | 8.4 |
| Cocaine | 22.0 | 21.5 | 22.4 | 23.1 | 21.7 | 22.9 | 23.3 | 20.6 | 15.8 | 14.6 | 11.4 | 9.4 | 7.9 | 6.3 | 5.0 | 5.5 | 5.0 | 5.6 | 8.1 | 8.4 |
| Crack ${ }^{\text {e }}$ | - | - | - | - | - | - | - | 3.3 | 3.4 | 2.4 | 1.4 | 1.5 | 1.7 | 1.3 | 1.0 | 1.8 | 1.2 | 1.4 | 2.2 | 2.4 |
| Other Cocaine ${ }^{\text {f }}$ | - | - | - | - | - | - | - | 18.1 | 14.2 | 16.0 | 10.2 | 9.0 | 7.6 | 6.3 | 4.6 | 5.2 | 4.6 | 5.0 | 7.4 | 7.8 |
| Heroin | 0.9 | 0.6 | 0.5 | 0.3 | 0.5 | 0.4 | 0.4 | 0.6 | 0.3 | 0.7 | 0.3 | 0.5 | 0.5 | 0.6 | 0.1 | 0.6 | 0.7 | 0.9 | 1.7 | 0.9 |
| Narcotics other than Heroin ${ }^{\text {g,h }}$ | 8.9 | 8.3 | 8.1 | 8.4 | 8.9 | 6.3 | 8.8 | 7.6 | 6.3 | 7.6 | 6.8 | 7.3 | 7.3 | 6.2 | 5.1 | 7.2 | 5.7 | 8.2 | 8.7 | 8.7 |
| Amphetamines ${ }^{\text {g,i }}$ | 29.5 | 29.4 | 30.1 | 27.8 | 27.8 | 25.4 | 22.3 | 19.8 | 17.7 | 14.6 | 13.2 | 13.0 | 10.5 | 10.1 | 9.2 | 10.7 | 9.5 | 10.6 | 10.6 | 11.9 |
| Methamphetamine ${ }^{j}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7.1 |
| Crystal Methamphetamine (Ice) ${ }^{\text {j }}$ | - | - | - | - | - | - | - | - | - | - | 1.0 | 1.3 | 0.6 | 1.6 | 1.3 | 1.0 | 0.8 | 1.6 | 2.2 | 2.8 |
| Sedatives (Barbiturates) ${ }^{\text {g,t }}$ | 8.1 | 7.8 | 8.2 | 6.6 | 6.4 | 4.9 | 5.4 | 3.5 | 3.6 | 3.2 | 3.8 | 3.5 | 3.8 | 3.5 | 3.2 | 4.0 | 4.6 | 5.2 | 5.7 | 6.7 |
| Sedatives, Adjusted ${ }^{\text {g,k }}$ | 13.7 | 14.2 | 14.1 | 12.2 | 10.8 | 9.3 | 8.0 | 6.1 | 4.7 | 4.1 | - | - | - | - | - | - | - | - | - | - |
| Methaqualone ${ }^{9}$ | 10.3 | 10.4 | 11.1 | 9.2 | 9.0 | 7.2 | 5.8 | 4.1 | 2.2 | 2.4 | - | - | - | - | - | - | - | - | - | - |
| Tranquilizers ${ }^{\text {g,l }}$ | 15.2 | 11.4 | 11.7 | 10.8 | 10.8 | 9.8 | 10.7 | 8.7 | 8.0 | 8.0 | 7.1 | 6.8 | 6.9 | 6.3 | 4.4 | 5.4 | 5.4 | 6.9 | 7.7 | 8.2 |
| Alcohol ${ }^{m}$ | 94.3 | 95.2 | 95.2 | 95.0 | 94.2 | 95.3 | 94.9 | 94.1 | 94.9 | 93.7 | 93.1 | 93.6 | 91.8 | 89.3 | 88.2 | 88.5 | 88.4 | 87.3 | 88.5 | 88.0 |
| Been Drunk ${ }^{\text {n }}$ | - | - | - | - | - | - | - | - | - | - | - | 79.6 | 76.8 | 76.4 | 74.4 | 76.6 | 76.2 | 77.0 | 76.8 | 75.1 |
| Flavored Alcoholic Beverages ${ }^{\circ}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cigarettes | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Steroids ${ }^{\text {p }}$ | - | - | - | - | - | - | - | - | - | 0.4 | 1.5 | 1.4 | 1.7 | 1.9 | 0.5 | 0.8 | 0.6 | 1.6 | 0.9 | 1.3 |

(Table continued on next page.)

TABLE 9-1 (cont.)
Trends in Lifetime Prevalence of Various Types of Drugs among College Students 1 to 4 Years beyond High School
(Entries are percentages.)

|  | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | $\begin{gathered} 2013- \\ 2014 \end{gathered}$ change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Approximate Weighted $N=$ | 1,350 | 1,340 | 1,260 | 1,270 | 1,400 | 1,360 | 1,280 | 1,250 | 1,270 | 1,320 | 1,260 | 1,230 | 1,150 | 1,090 | 1,030 |  |
| Any Illicit Drug ${ }^{\text {a }}$ | 53.7 | 53.6 | 51.8 | 53.9 | 52.2 | 52.3 | 50.6 | 50.5 | 49.5 | 51.4 | 49.1 | 49.2 | 50.5 | 53.3 | 52.4 | -0.9 |
| Any Illicit Drug other than Marijuana ${ }^{\text {a }}$ | 25.8 | 26.3 | 26.9 | 27.6 | 28.0 | 26.5 | 26.3 | 25.3 | 22.6 | 25.6 | 24.8 | 24.3 | 23.8 | 28.3 | 29.0 | +0.7 |
| Marijuana | 51.2 | 51.0 | 49.5 | 50.7 | 49.1 | 49.1 | 46.9 | 47.5 | 46.8 | 47.5 | 46.8 | 46.6 | 49.1 | 47.7 | 48.5 | +0.8 |
| Inhalants ${ }^{\text {b }}$ | 12.9 | 9.6 | 7.7 | 9.7 | 8.5 | 7.1 | 7.4 | 6.3 | 4.9 | 6.9 | 5.5 | 3.7 | 5.7 | 4.3 | 3.5 | -0.7 |
| Hallucinogens ${ }^{\text {c,x }}$ | 14.4 | 14.8 | 13.6 | 14.5 | 12.0 | 11.0 | 10.6 | 9.1 | 8.5 | 8.0 | 7.8 | 7.4 | 7.6 | 7.8 | 7.6 | -0.2 |
| LSD ${ }^{\text {x }}$ | 11.8 | 12.2 | 8.6 | 8.7 | 5.6 | 3.7 | 3.5 | 3.3 | 4.3 | 3.3 | 4.0 | 3.7 | 3.1 | 4.4 | 4.5 | +0.1 |
| Hallucinogens other than LSD ${ }^{\text {c,x }}$ | 8.2 | 10.7 | 11.0 | 12.8 | 10.1 | 10.6 | 10.1 | 8.5 | 8.2 | 7.8 | 7.1 | 6.9 | 7.2 | 6.8 | 6.8 | 0.0 |
| Ecstasy (MDMA) ${ }^{\text {d }}$ | 13.1 | 14.7 | 12.7 | 12.9 | 10.2 | 8.3 | 6.9 | 5.4 | 6.2 | 6.5 | 6.2 | 6.8 | 8.7 | 8.1 | 8.2 | +0.1 |
| Cocaine | 9.1 | 8.6 | 8.2 | 9.2 | 9.5 | 8.8 | 7.7 | 8.5 | 7.2 | 8.1 | 6.6 | 5.5 | 5.2 | 5.1 | 6.2 | +1.0 |
| Crack ${ }^{\text {e }}$ | 2.5 | 2.0 | 1.9 | 3.1 | 2.0 | 1.7 | 2.3 | 1.3 | 1.4 | 1.0 | 1.2 | 0.8 | 0.7 | 0.7 | 1.4 | +0.7 |
| Other Cocaine ${ }^{\dagger}$ | 8.1 | 8.3 | 8.6 | 8.5 | 9.3 | 8.1 | 6.2 | 8.0 | 7.1 | 7.9 | 6.7 | 5.4 | 5.1 | 5.2 | 6.2 | +1.0 |
| Heroin | 1.7 | 1.2 | 1.0 | 1.0 | 0.9 | 0.5 | 0.7 | 0.5 | 0.7 | 0.8 | 0.7 | 0.6 | 0.5 | 0.4 | 0.3 | -0.2 |
| Narcotics other than Heroin ${ }^{\text {g,h }}$ | 8.9 | 11.0 | 12.2 | 14.2 | 13.8 | 14.4 | 14.6 | 14.1 | 12.4 | 14.0 | 12.2 | 12.4 | 10.3 | 10.8 | 9.9 | -0.9 |
| Amphetamines ${ }^{\text {g,i }}$ | 12.3 | 12.4 | 11.9 | 12.3 | 12.7 | 12.3 | 10.7 | 11.2 | 9.1 | 11.8 | 12.1 | 13.4 | 14.4 | 16.1 | 15.0 | -1.2 |
| Methamphetamine ${ }^{\text {j }}$ | 5.1 | 5.3 | 5.0 | 5.8 | 5.2 | 4.1 | 2.9 | 1.9 | 1.9 | 1.0 | 1.1 | 0.6 | 0.3 | 0.9 | 0.7 | -0.3 |
| Crystal Methamphetamine (Ice) ${ }^{\text {j }}$ | 1.3 | 2.3 | 2.0 | 2.9 | 2.2 | 2.4 | 1.7 | 1.3 | 1.1 | 0.7 | 0.8 | 0.2 | 0.6 | 0.0 | 0.3 | +0.3 |
| Sedatives (Barbiturates) ${ }^{\text {g,t }}$ | 6.9 | 6.0 | 5.9 | 5.7 | 7.2 | 8.5 | 6.3 | 5.9 | 6.4 | 6.0 | 5.3 | 3.6 | 3.5 | 5.4 | 5.9 | +0.6 |
| Sedatives, Adjusted ${ }^{\text {g,k }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methaqualone ${ }^{9}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tranquilizers ${ }^{\text {g,l }}$ | 8.8 | 9.7 | 10.7 | 11.0 | 10.6 | 11.9 | 10.0 | 9.1 | 8.6 | 9.2 | 8.1 | 7.1 | 6.4 | 7.8 | 6.9 | -0.9 |
| Alcohol ${ }^{\text {m }}$ | 86.6 | 86.1 | 86.0 | 86.2 | 84.6 | 86.6 | 84.7 | 83.1 | 85.3 | 82.6 | 82.3 | 80.5 | 81.0 | 78.0 | 79.4 | +1.4 |
| Been Drunk ${ }^{\text {n }}$ | 74.7 | 76.1 | 75.1 | 74.9 | 73.4 | 72.9 | 73.1 | 71.6 | 72.5 | 69.1 | 70.5 | 67.9 | 70.0 | 66.5 | 68.8 | +2.3 |
| Flavored Alcoholic Beverages ${ }^{\circ}$ | - | - | - | - | 79.0 | 84.5 | 80.9 | 80.6 | 78.6 | 78.1 | 77.4 | 76.7 | 76.6 | 67.5 | 72.7 | +5.2 |
| Cigarettes | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Steroids ${ }^{p}$ | 0.6 | 1.5 | 1.2 | 1.2 | 1.6 | 1.0 | 1.9 | 0.6 | 1.6 | 1.3 | 0.7 | 1.1 | 0.4 | 0.8 | 0.9 | +0.1 |
| Source. The Monitoring the Future study, the University of Michigan. See footnotes following Table 9-5. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 9-2

## Trends in Annual Prevalence of Various Types of Drugs among College Students 1 to 4 Years beyond High School

$\begin{array}{lllllllllllllllllllllllllll}1980 & 1981 & 1982 & 1983 & 1984 & \underline{1985} & \underline{1986} & \underline{1987} & \underline{1988} & \underline{1989} & \underline{1990} & \underline{1991} & \underline{1992} & \underline{1993} & \underline{1994} & \underline{1995} & \underline{1996} & \underline{1997} & \underline{1998} & \underline{1999}\end{array}$ Approximate Weighted $N=1 \begin{array}{llllllllllllllllll}1,040 & 1,130 & 1,150 & 1,170 & 1,110 & 1,080 & 1,190 & 1,220 & 1,310 & 1,300 & 1,400 & 1,410 & 1,490 & 1,490 & 1,410 & 1,450 & 1,450 & 1,480 \\ 1,440 & 1,440\end{array}$

| Any llicit Drug ${ }^{\text {a }}$ | 56.2 | 55.0 | 49.5 | 49.8 | 45.1 | 46.3 | 45.0 | 40.1 | 37.4 | 36.7 | 33.3 | 29.2 | 30.6 | 30.6 | 31.4 | 33.5 | 34.2 | 34.1 | 37.8 | 36.9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Any Illicit Drug other than Marijuana ${ }^{\text {a }}$ | 32.3 | 31.7 | 29.9 | 29.9 | 27.2 | 26.7 | 25.0 | 21.3 | 19.2 | 16.4 | 15.2 | 13.2 | 13.1 | 12.5 | 12.2 | 15.9 | 12.8 | 15.8 | 14.0 | 15.4 |
| Synthetic Marijuana ${ }^{\text {a }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Marijuana | 51.2 | 51.3 | 44.7 | 45.2 | 40.7 | 41.7 | 40.9 | 37.0 | 34.6 | 33.6 | 29.4 | 26.5 | 27.7 | 27.9 | 29.3 | 31.2 | 33.1 | 31.6 | 35.9 | 35.2 |
| Inhalants ${ }^{\text {b }}$ | 3.0 | 2.5 | 2.5 | 2.8 | 2.4 | 3.1 | 3.9 | 3.7 | 4.1 | 3.7 | 3.9 | 3.5 | 3.1 | 3.8 | 3.0 | 3.9 | 3.6 | 4.1 | 3.0 | 3.2 |
| Hallucinogens ${ }^{\text {c,x }}$ | 8.5 | 7.0 | 8.7 | 6.5 | 6.2 | 5.0 | 6.0 | 5.9 | 5.3 | 5.1 | 5.4 | 6.3 | 6.8 | 6.0 | 6.2 | 8.2 | 6.9 | 7.7 | 7.2 | 7.8 |
| LSD ${ }^{\text {* }}$ | 6.0 | 4.6 | 6.3 | 4.3 | 3.7 | 2.2 | 3.9 | 4.0 | 3.6 | 3.4 | 4.3 | 5.1 | 5.7 | 5.1 | 5.2 | 6.9 | 5.2 | 5.0 | 4.4 | 5.4 |
| Hallucinogens other than LSD ${ }^{\mathrm{c}, \mathrm{X}}$ | 5.2 | 4.7 | 5.4 | 3.9 | 4.1 | 3.9 | 3.8 | 3.1 | 3.4 | 3.1 | 3.0 | 3.1 | 2.6 | 2.7 | 2.8 | 4.0 | 4.1 | 4.9 | 4.4 | 4.5 |
| Ecstasy (MDMA) ${ }^{\text {d }}$ | - | - | - | - | - | - | - | - | - | 2.3 | 2.3 | 0.9 | 2.0 | 0.8 | 0.5 | 2.4 | 2.8 | 2.4 | 3.9 | 5.5 |
| Salvia ${ }^{\text { }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cocaine | 16.8 | 16.0 | 17.2 | 17.3 | 16.3 | 17.3 | 17.1 | 13.7 | 10.0 | 8.2 | 5.6 | 3.6 | 3.0 | 2.7 | 2.0 | 3.6 | 2.9 | 3.4 | 4.6 | 4.6 |
| Crack ${ }^{\text {e }}$ | - | - | - | - | - | - | - | 2.0 | 1.4 | 1.5 | 0.6 | 0.5 | 0.4 | 0.6 | 0.5 | 1.1 | 0.6 | 0.4 | 1.0 | 0.9 |
| Other Cocaine ${ }^{\text {f }}$ | - | - | - | - | - | - | - | 10.7 | 10.6 | 9.3 | 5.1 | 3.2 | 2.4 | 2.5 | 1.8 | 3.3 | 2.3 | 3.0 | 4.2 | 4.2 |
| Heroin | 0.4 | 0.2 | 0.1 | * | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.4 | 0.3 | 0.6 | 0.2 |
| Narcotics other than Heroin ${ }^{\text {g.h }}$ | 5.1 | 4.3 | 3.8 | 3.8 | 3.8 | 2.4 | 4.0 | 3.1 | 3.1 | 3.2 | 2.9 | 2.7 | 2.7 | 2.5 | 2.4 | 3.8 | 3.1 | 4.2 | 4.2 | 4.3 |
| OxyContin ${ }^{\text {9,j }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Vicodin ${ }^{\text {g.j }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Amphetamines ${ }^{\text {g,i }}$ | 22.4 | 22.2 | 21.1 | 17.3 | 15.7 | 11.9 | 10.3 | 7.2 | 6.2 | 4.6 | 4.5 | 3.9 | 3.6 | 4.2 | 4.2 | 5.4 | 4.2 | 5.7 | 5.1 | 5.8 |
| Ritalin ${ }^{\text {g.j }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Adderall ${ }^{\text {g.j }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methamphetamine ${ }^{j}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.3 |
| Crystal Methamphetamine (Ice) ${ }^{\text {j }}$ | - | - | - | - | - | - | - | - | - | - | 0.1 | 0.1 | 0.2 | 0.7 | 0.8 | 1.1 | 0.4 | 0.8 | 1.0 | 0.5 |
| Bath Salts (synthetic stimulants) ${ }^{\text {n }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sedatives (Barbiturates) ${ }^{\text {g,t }}$ | 2.9 | 2.8 | 3.2 | 2.2 | 1.9 | 1.3 | 2.0 | 1.2 | 1.1 | 1.0 | 1.4 | 1.2 | 1.4 | 1.5 | 1.2 | 2.0 | 2.3 | 3.0 | 2.5 | 3.2 |
| Sedatives, Adjusted ${ }^{\text {g,k }}$ | 8.3 | 8.0 | 8.0 | 4.5 | 3.5 | 2.5 | 2.6 | 1.7 | 1.5 | 1.0 | - | - | - | - | - | - | - | - | - | - |
| Methaqualone ${ }^{9}$ | 7.2 | 6.5 | 6.6 | 3.1 | 2.5 | 1.4 | 1.2 | 0.8 | 0.5 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| Tranquilizers ${ }^{\text {g,1 }}$ | 6.9 | 4.8 | 4.7 | 4.6 | 3.5 | 3.6 | 4.4 | 3.8 | 3.1 | 2.6 | 3.0 | 2.4 | 2.9 | 2.4 | 1.8 | 2.9 | 2.8 | 3.8 | 3.9 | 3.8 |
| Rohypnol ${ }^{\text {i }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GHB ${ }^{\text {w }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ketamine w | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Alcohol ${ }^{\text {m }}$ | 90.5 | 92.5 | 92.2 | 91.6 | 90.0 | 92.0 | 91.5 | 90.9 | 89.6 | 89.6 | 89.0 | 88.3 | 86.9 | 85.1 | 82.7 | 83.2 | 83.0 | 82.4 | 84.6 | 83.6 |
| Been Drunk ${ }^{\text {n }}$ | - | - | - | - | - | - | - | - | - | - | - | 69.1 | 67.3 | 65.6 | 63.1 | 62.1 | 64.2 | 66.8 | 67.0 | 65.4 |
| Flavored Alcoholic Beverages ${ }^{\circ}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Alcoholic Beverages containing Caffeine ${ }^{\text {j.s }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cigarettes | 36.2 | 37.6 | 34.3 | 36.1 | 33.2 | 35.0 | 35.3 | 38.0 | 36.6 | 34.2 | 35.5 | 35.6 | 37.3 | 38.8 | 37.6 | 39.3 | 41.4 | 43.6 | 44.3 | 44.5 |
| Tobacco Using a Hookah ${ }^{\text {j }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Small Cigars ${ }^{\text { }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Snus ${ }^{\text {j }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dissolvable Tobacco ${ }^{\text {j }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Steroids ${ }^{p}$ | - | - | - | - | - | - | - | - | - | 0.4 | 0.5 | 0.6 | 0.2 | 0.9 | 0.2 | 0.4 | 0.2 | 0.7 | 0.2 | 0.9 |

TABLE 9-2 (cont.)
Trends in Annual Prevalence of Various Types of Drugs
(Entries are percentages.)



| Any llicit Drug ${ }^{\text {a }}$ | 36.1 | 37.9 | 37.0 | 36.5 | 36.2 | 36.6 | 33.9 | 35.0 | 35.2 | 36.0 | 35.0 | 36.3 | 37.3 | 40.5 | 38.6 | -1.9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Any Illicit Drug other than Marijuana ${ }^{\text {a }}$ | 15.6 | 16.4 | 16.6 | 17.9 | 18.6 | 18.5 | 18.1 | 17.3 | 15.3 | 16.9 | 17.1 | 16.8 | 17.1 | 19.3 | 20.8 | +1.6 |
| Synthetic Marijuana ${ }^{\text {u }}$ | - | - | - | - | - | - | - | - | - | - | - | 7.4 | 5.3 | 2.3 | 0.9 | -1.4 s |
| Marijuana | 34.0 | 35.6 | 34.7 | 33.7 | 33.3 | 33.3 | 30.2 | 31.8 | 32.3 | 32.8 | 32.7 | 33.2 | 34.9 | 35.5 | 34.4 | -1.1 |
| Inhalants ${ }^{\text {b }}$ | 2.9 | 2.8 | 2.0 | 1.8 | 2.7 | 1.8 | 1.5 | 1.5 | 1.1 | 1.2 | 1.7 | 0.9 | 1.5 | 0.5 | 1.3 | +0.8 |
| Hallucinogens ${ }^{\text {c,x }}$ | 6.7 | 7.5 | 6.3 | 7.4 | 5.9 | 5.0 | 5.6 | 4.9 | 5.1 | 4.7 | 4.9 | 4.1 | 4.5 | 4.5 | 4.0 | -0.5 |
| LSD ${ }^{\text {x }}$ | 4.3 | 4.0 | 2.1 | 1.4 | 1.2 | 0.7 | 1.4 | 1.3 | 2.6 | 2.0 | 2.1 | 2.0 | 1.9 | 2.6 | 2.2 | -0.3 |
| Hallucinogens other than LSD ${ }^{\text {c,x }}$ | 4.4 | 5.5 | 5.8 | 7.1 | 5.6 | 5.0 | 5.4 | 4.7 | 4.4 | 4.1 | 4.4 | 3.4 | 3.9 | 3.7 | 3.2 | -0.4 |
| Ecstasy (MDMA) ${ }^{\text {d }}$ | 9.1 | 9.2 | 6.8 | 4.4 | 2.2 | 2.9 | 2.6 | 2.2 | 3.7 | 3.1 | 4.3 | 4.2 | 5.8 | 5.3 | 5.0 | -0.4 |
| Salvia ${ }^{\text {v }}$ | - | - | - | - | - | - | - | - | - | 5.8 | 3.5 | 3.1 | 1.5 | 1.0 | 1.1 | +0.1 |
| Cocaine | 4.8 | 4.7 | 4.8 | 5.4 | 6.6 | 5.7 | 5.1 | 5.4 | 4.4 | 4.2 | 3.5 | 3.3 | 3.1 | 2.7 | 4.4 | +1.7 s |
| Crack ${ }^{\text {e }}$ | 0.9 | 0.9 | 0.4 | 1.3 | 1.3 | 0.8 | 1.0 | 0.6 | 0.5 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.8 | +0.4 |
| Other Cocaine ${ }^{\text {f }}$ | 4.1 | 4.1 | 5.0 | 5.1 | 6.3 | 5.0 | 3.8 | 5.3 | 4.2 | 4.2 | 4.0 | 3.0 | 3.0 | 2.8 | 4.1 | +1.3 |
| Heroin | 0.5 | 0.4 | 0.1 | 0.2 | 0.4 | 0.3 | 0.3 | 0.2 | 0.3 | 0.4 | 0.2 | 0.1 | 0.1 | 0.3 | 0.0 | -0.2 |
| Narcotics other than Heroin ${ }^{\text {g,h }}$ | 4.5 | 5.7 | 7.4 | 8.7 | 8.2 | 8.4 | 8.8 | 7.7 | 6.5 | 7.6 | 7.2 | 6.2 | 5.4 | 5.4 | 4.8 | -0.6 |
| OxyContin ${ }^{\text {9,9 }}$ | - | - | 1.5 | 2.2 | 2.5 | 2.1 | 3.0 | 2.8 | 3.6 | 5.0 | 2.3 | 2.4 | 1.2 | 2.3 | 1.3 | -1.1 |
| Vicodin ${ }^{\text {9,q }}$ | - | - | 6.9 | 7.5 | 7.4 | 9.6 | 7.6 | 6.7 | 6.7 | 8.4 | 4.9 | 5.8 | 3.8 | 4.4 | 2.8 | -1.6 |
| Amphetamines ${ }^{\text {g,i }}$ | 6.6 | 7.2 | 7.0 | 7.1 | 7.0 | 6.7 | 6.0 | 6.9 | 5.7 | 7.5 | 9.0 | 9.3 | 11.1 | 9.6 | 10.1 | +0.5 |
| Ritalin ${ }^{9, q}$ | - | - | 5.7 | 4.7 | 4.7 | 4.2 | 3.9 | 3.7 | 3.2 | 1.7 | 1.9 | 2.3 | 1.8 | 3.6 | 1.6 | -1.9 |
| Adderall ${ }^{9,9}$ | - | - | - | - | - | - | - | - | - | 10.2 | 9.0 | 9.8 | 9.0 | 10.7 | 9.6 | -1.0 |
| Methamphetamine ${ }^{j}$ | 1.6 | 2.4 | 1.2 | 2.6 | 2.9 | 1.7 | 1.2 | 0.4 | 0.5 | 0.3 | 0.4 | 0.2 | 0.0 | 0.4 | 0.1 | -0.3 |
| Crystal Methamphetamine (Ice) ${ }^{\text {j }}$ | 0.5 | 0.6 | 0.8 | 0.9 | 1.1 | 1.4 | 0.6 | 0.7 | 0.1 | 0.1 | 0.5 | 0.1 | 0.6 | * | * | 0.0 |
| Bath Salts (synthetic stimulants) ${ }^{\text {n }}$ | - | - | - | - | - | - | - | - | - | - | - | - | 0.3 | 0.1 | 0.2 | +0.1 |
| Sedatives (Barbiturates) ${ }^{\text {g,t }}$ | 3.7 | 3.8 | 3.7 | 4.1 | 4.2 | 3.9 | 3.4 | 3.6 | 3.7 | 3.1 | 2.5 | 1.7 | 2.2 | 2.7 | 3.1 | +0.3 |
| Sedatives, Adjusted ${ }^{\text {g,k }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methaqualone ${ }^{\text {g }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tranquilizers ${ }^{\text {9,1 }}$ | 4.2 | 5.1 | 6.7 | 6.9 | 6.7 | 6.4 | 5.8 | 5.5 | 5.0 | 5.4 | 4.9 | 4.2 | 3.4 | 4.4 | 3.5 | -0.9 |
| Rohypnol ${ }^{\text {j }}$ | - | - | 0.7 | 0.4 | 0.3 | 0.1 | 0.2 | 0.1 | 0.3 | * | - | - | - | - | - | - |
| GHB ${ }^{\text {w }}$ | - | - | 0.6 | 0.3 | 0.7 | 0.4 | * | 0.1 | 0.2 | * | 0.1 | 0.1 | * | 0.1 | 0.2 | +0.1 |
| Ketamine w | - | - | 1.3 | 1.0 | 1.5 | 0.5 | 0.9 | 0.2 | 0.4 | 0.1 | 0.7 | 0.6 | 0.4 | 0.9 | 0.1 | -0.8 |
| Alcohol ${ }^{\text {m }}$ | 83.2 | 83.0 | 82.9 | 81.7 | 81.2 | 83.0 | 82.1 | 80.9 | 82.1 | 79.4 | 78.6 | 77.4 | 79.2 | 75.6 | 76.1 | +0.5 |
| Been Drunk ${ }^{\text {n }}$ | 64.7 | 68.8 | 66.0 | 64.7 | 67.1 | 64.2 | 66.2 | 64.8 | 66.8 | 61.5 | 63.8 | 60.1 | 61.5 | 57.9 | 60.5 | +2.5 |
| Flavored Alcoholic Beverages ${ }^{\circ}$ | - | - | - | - | 63.2 | 67.0 | 63.5 | 62.6 | 65.0 | 66.1 | 60.3 | 63.0 | 58.1 | 57.6 | 64.2 | +6.6 |
| Alcoholic Beverages containing Caffeine ${ }^{j}$ | - | - | - | - | - | - | - | - | - | - | - | 33.6 | 33.8 | 39.1 | 32.8 | -6.3 |
| Cigarettes | 41.3 | 39.0 | 38.3 | 35.2 | 36.7 | 36.0 | 30.9 | 30.7 | 30.0 | 29.9 | 28.1 | 25.8 | 23.4 | 23.2 | 22.6 | -0.5 |
| Tobacco Using a Hookah ${ }^{\text {j }}$ | - | - | - | - | - | - | - | - | - | - | - | 27.9 | 25.7 | 26.1 | 32.7 | +6.7 s |
| Small Cigars ${ }^{\text {y }}$ | - | - | - | - | - | - | - | - | - | - | - | 23.6 | 20.3 | 19.0 | 24.2 | +5.2 |
| Snus ${ }^{\text {j }}$ | - | - | - | - | - | - | - | - | - | - | - | 6.5 | 4.7 | 4.8 | 5.0 | +0.2 |
| Dissolvable Tobacco ${ }^{\text {j }}$ | - | - | - | - | - | - | - | - | - | - | - | * | 0.3 | 0.2 | 0.5 | +0.3 |
| Steroids ${ }^{\text {p }}$ | 0.1 | 0.6 | 0.5 | 0.3 | 0.6 | 0.5 | 0.8 | 0.6 | 0.1 | 0.7 | 0.3 | 0.2 | 0.3 | 0.8 | 0.5 | -0.3 |
| Source. The Monitoring the Futur See footnotes following Table 9-5. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE 9-3
Trends in 30-Day Prevalence of Various Types of Drugs among College Students 1 to 4 Years beyond High School
(Entries are percentages.)



| Any Illicit Drug ${ }^{\text {a }}$ | 38.4 | 37.6 | 31.3 | 29.3 | 27.0 | 26.1 | 25.9 | 22.4 | 18.5 | 18.2 | 15.2 | 15.2 | 16.1 | 15.1 | 16.0 | 19.1 | 17.6 | 19.2 | 19.7 | 21.6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Any Illicit Drug other than Marijuana ${ }^{\text {a }}$ | 20.7 | 18.6 | 17.1 | 13.9 | 13.8 | 11.8 | 11.6 | 8.8 | 8.5 | 6.9 | 4.4 | 4.3 | 4.6 | 5.4 | 4.6 | 6.3 | 4.5 | 6.8 | 6.1 | 6.4 |
| Marijuana | 34.0 | 33.2 | 26.8 | 26.2 | 23.0 | 23.6 | 22.3 | 20.3 | 16.8 | 16.3 | 14.0 | 14.1 | 14.6 | 14.2 | 15.1 | 18.6 | 17.5 | 17.7 | 18.6 | 20.7 |
| Synthetic Marijuana ${ }^{\circ}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Inhalants ${ }^{\text {b }}$ | 1.5 | 0.9 | 0.8 | 0.7 | 0.7 | 1.0 | 1.1 | 0.9 | 1.3 | 0.8 | 1.0 | 0.9 | 1.1 | 1.3 | 0.6 | 1.6 | 0.8 | 0.7 | 0.6 | 1.5 |
| Hallucinogens ${ }^{\text {c,x }}$ | 2.7 | 2.3 | 2.6 | 1.8 | 1.8 | 1.3 | 2.2 | 2.0 | 1.7 | 2.3 | 1.4 | 1.2 | 2.3 | 2.5 | 2.1 | 3.3 | 1.9 | 2.1 | 2.1 | 2.0 |
| LSD ${ }^{\text {x }}$ | 1.4 | 1.4 | 1.7 | 0.9 | 0.8 | 0.7 | 1.4 | 1.4 | 1.1 | 1.4 | 1.1 | 0.8 | 1.8 | 1.6 | 1.8 | 2.5 | 0.9 | 1.1 | 1.5 | 1.2 |
| Hallucinogens other than LSD ${ }^{\text {c,x }}$ | 1.9 | 1.2 | 1.4 | 1.0 | 1.2 | 0.7 | 1.2 | 0.8 | 0.8 | 1.1 | 0.8 | 0.6 | 0.7 | 1.1 | 0.8 | 1.6 | 1.2 | 1.2 | 0.7 | 1.2 |
| Ecstasy (MDMA) ${ }^{\text {d }}$ | - | - | - | - | - | - | - | - | - | 0.3 | 0.6 | 0.2 | 0.4 | 0.3 | 0.2 | 0.7 | 0.7 | 0.8 | 0.8 | 2.1 |
| Cocaine | 6.9 | 7.3 | 7.9 | 6.5 | 7.6 | 6.9 | 7.0 | 4.6 | 4.2 | 2.8 | 1.2 | 1.0 | 1.0 | 0.7 | 0.6 | 0.7 | 0.8 | 1.6 | 1.6 | 1.2 |
| Crack ${ }^{\text {e }}$ | - | - | - | - | - | - | 1.3 | 0.4 | 0.5 | 0.2 | 0.1 | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 |
| Other Cocaine ${ }^{\text {f }}$ | - | - | - | - | - | - | - | 3.5 | 3.2 | 3.2 | 1.0 | 1.0 | 0.9 | 0.6 | 0.3 | 0.8 | 0.6 | 1.3 | 1.5 | 1.0 |
| Heroin | 0.3 | * | * | * | * | * | * | 0.1 | 0.1 | 0.1 | * | 0.1 | * | * | * | 0.1 | * | 0.2 | 0.1 | 0.1 |
| Narcotics other than Heroin ${ }^{\text {g,h }}$ | 1.8 | 1.1 | 0.9 | 1.1 | 1.4 | 0.7 | 0.6 | 0.8 | 0.8 | 0.7 | 0.5 | 0.6 | 1.0 | 0.7 | 0.4 | 1.2 | 0.7 | 1.3 | 1.1 | 1.0 |
| Amphetamines ${ }^{\text {g,i }}$ | 13.4 | 12.3 | 9.9 | 7.0 | 5.5 | 4.2 | 3.7 | 2.3 | 1.8 | 1.3 | 1.4 | 1.0 | 1.1 | 1.5 | 1.5 | 2.2 | 0.9 | 2.1 | 1.7 | 2.3 |
| Methamphetamine ${ }^{\text {j }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.2 |
| Crystal Methamphetamine (Ice) ${ }^{\text {j }}$ | - | - | - | - | - | - | - | - | - | - | * | * | * | 0.3 | 0.5 | 0.3 | 0.1 | 0.2 | 0.3 | * |
| Sedatives (Barbiturates) ${ }^{\text {g,t }}$ | 0.9 | 0.8 | 1.0 | 0.5 | 0.7 | 0.4 | 0.6 | 0.5 | 0.5 | 0.2 | 0.2 | 0.3 | 0.7 | 0.4 | 0.4 | 0.5 | 0.8 | 1.2 | 1.1 | 1.1 |
| Sedatives, Adjusted ${ }^{\text {g,k }}$ | 3.8 | 3.4 | 2.5 | 1.1 | 1.0 | 0.7 | 0.6 | 0.6 | 0.6 | 0.2 | - | - | - | - | - | - | - | - | - | - |
| Methaqualone ${ }^{9}$ | 3.1 | 3.0 | 1.9 | 0.7 | 0.5 | 0.3 | 0.1 | 0.2 | 0.1 | 0.0 | - | - | - | - | - | - | - | - | - | - |
| Tranquilizers ${ }^{\text {g,1 }}$ | 2.0 | 1.4 | 1.4 | 1.2 | 1.1 | 1.4 | 1.9 | 1.0 | 1.1 | 0.8 | 0.5 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.7 | 1.2 | 1.3 | 1.1 |
| Alcohol ${ }^{\text {m }}$ | 81.8 | 81.9 | 82.8 | 80.3 | 79.1 | 80.3 | 79.7 | 78.4 | 77.0 | 76.2 | 74.5 | 74.7 | 71.4 | 70.1 | 67.8 | 67.5 | 67.0 | 65.8 | 68.1 | 69.6 |
| Been Drunk ${ }^{\text {n }}$ | - | - | - | - | - | - | - | - | - | - | - | 45.0 | 45.0 | 43.8 | 42.8 | 37.9 | 40.3 | 46.4 | 44.3 | 44.6 |
| Flavored Alcoholic Beverages ${ }^{\circ}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cigarettes | 25.8 | 25.9 | 24.4 | 24.7 | 21.5 | 22.4 | 22.4 | 24.0 | 22.6 | 21.1 | 21.5 | 23.2 | 23.5 | 24.5 | 23.5 | 26.8 | 27.9 | 28.3 | 30.0 | 30.6 |
| E-cigarettes ${ }^{\circ}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Large Cigars ${ }^{\circ}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Flavored Little Cigars ${ }^{\circ}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Regular Little Cigars ${ }^{\circ}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Steroids ${ }^{p}$ | - | - | - | - | - | - | - | - | - | * | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | * | 0.2 | 0.2 | 0.4 |

## TABLE 9-3 (cont.)

Trends in 30-Day Prevalence of Various Types of Drugs among College Students 1 to 4 Years beyond High School
(Entries are percentages.)

> 2013-
> $2000 \quad 2001 \quad 2002 \quad \underline{2003} \quad \underline{2004} \quad \underline{2005} \quad 2006 \quad \underline{2007} \quad 2008 \quad 2009 \quad 2010 \quad 2011 \quad 2012 \quad 2013 \quad 2014$ change Approximate Weighted $N=1,350 \quad 1,340 \quad 1,260 \quad 1,270 \quad 1,400 \quad 1,360 \quad 1,280 \quad 1,250 \quad 1,270 \quad 1,320 \quad 1,260 \quad 1,230 \quad 1,150 \quad 1,090 \quad 1,030$

| Any Illicit Drug ${ }^{\text {a }}$ | 21.5 | 21.9 | 21.5 | 21.4 | 21.2 | 19.5 | 19.2 | 19.3 | 18.9 | 20.7 | 19.2 | 21.4 | 22.3 | 22.8 | 22.7 | -0.1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Any Illicit Drug other than Marijuana ${ }^{\text {a }}$ | 6.9 | 7.5 | 7.8 | 8.2 | 9.1 | 8.2 | 8.2 | 8.1 | 7.3 | 8.4 | 8.1 | 8.2 | 7.8 | 8.8 | 10.0 | +1.2 |
| Marijuana | 20.0 | 20.2 | 19.7 | 19.3 | 18.9 | 17.1 | 16.7 | 16.8 | 17.0 | 18.5 | 17.5 | 19.4 | 20.5 | 20.6 | 20.8 | +0.2 |
| Synthetic Marijuana ${ }^{\circ}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | * | - |
| Inhalants ${ }^{\text {b }}$ | 0.9 | 0.4 | 0.7 | 0.4 | 0.4 | 0.3 | 0.4 | 0.1 | 0.4 | 0.1 | 0.5 | 0.3 | 0.2 | 0.1 | 0.3 | +0.2 |
| Hallucinogens ${ }^{\text {c,x }}$ | 1.4 | 1.8 | 1.2 | 1.8 | 1.3 | 1.2 | 0.9 | 1.3 | 1.7 | 1.0 | 1.4 | 1.2 | 1.1 | 1.0 | 1.0 | 0.0 |
| LSD ${ }^{\text {x }}$ | 0.9 | 1.0 | 0.2 | 0.2 | 0.2 | 0.1 | 0.3 | 0.3 | 0.8 | 0.3 | 0.7 | 0.5 | 0.4 | 0.4 | 0.5 | +0.1 |
| Hallucinogens other than LSD ${ }^{\text {c,x }}$ | 0.8 | 0.8 | 1.1 | 1.7 | 1.2 | 1.1 | 0.7 | 1.1 | 1.3 | 0.8 | 1.2 | 0.8 | 0.7 | 0.8 | 0.7 | -0.2 |
| Ecstasy (MDMA) ${ }^{\text {d }}$ | 2.5 | 1.5 | 0.7 | 1.0 | 0.7 | 0.8 | 0.6 | 0.4 | 0.6 | 0.5 | 1.0 | 0.7 | 1.4 | 0.8 | 1.3 | +0.5 |
| Cocaine | 1.4 | 1.9 | 1.6 | 1.9 | 2.4 | 1.8 | 1.8 | 1.7 | 1.2 | 1.3 | 1.0 | 1.2 | 1.1 | 0.9 | 1.8 | +1.0 s |
| Crack ${ }^{\text {e }}$ | 0.3 | 0.1 | 0.3 | 0.4 | 0.4 | 0.1 | * | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | * | 0.3 | 0.1 | -0.2 |
| Other Cocaine ${ }^{\text {f }}$ | 0.9 | 1.5 | 1.4 | 1.9 | 2.2 | 1.8 | 1.3 | 1.6 | 1.1 | 1.2 | 1.0 | 1.2 | 1.3 | 0.9 | 1.8 | +0.9 |
| Heroin | 0.2 | 0.1 | * | * | 0.1 | 0.1 | 0.2 | 0.1 | * | 0.1 | * | * | 0.1 | 0.2 | * | -0.2 |
| Narcotics other than Heroin ${ }^{\text {g,h }}$ | 1.7 | 1.7 | 3.2 | 2.3 | 3.0 | 3.1 | 3.1 | 2.2 | 2.3 | 2.7 | 2.3 | 2.1 | 2.2 | 1.5 | 1.2 | -0.4 |
| Amphetamines ${ }^{\text {g,i }}$ | 2.9 | 3.3 | 3.0 | 3.1 | 3.2 | 2.9 | 2.5 | 3.1 | 2.8 | 3.4 | 4.1 | 4.5 | 4.6 | 5.0 | 4.8 | -0.2 |
| Methamphetamine ${ }^{\text {j }}$ | 0.2 | 0.5 | 0.2 | 0.6 | 0.2 | 0.1 | 0.2 | 0.1 | * | 0.1 | * | * | * | * | 0.1 | +0.1 |
| Crystal Methamphetamine (Ice) ${ }^{\text {j }}$ | * | 0.1 | * | 0.3 | 0.1 | 0.2 | * | 0.1 | * | * | 0.2 | * | 0.3 | * | * | 0.0 |
| Sedatives (Barbiturates) ${ }^{\mathrm{g}, \mathrm{t}}$ | 1.1 | 1.5 | 1.7 | 1.7 | 1.5 | 1.3 | 1.3 | 1.4 | 1.4 | 1.2 | 0.6 | 0.8 | 0.8 | 0.9 | 0.7 | -0.1 |
| Sedatives, Adjusted ${ }^{\text {g,k }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methaqualone ${ }^{\text {g }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tranquilizers ${ }^{\text {g, }}$ | 2.0 | 1.5 | 3.0 | 2.8 | 2.7 | 2.2 | 2.1 | 1.8 | 1.6 | 2.2 | 1.3 | 1.6 | 1.1 | 1.2 | 1.7 | +0.5 |
| Alcohol ${ }^{\text {m }}$ | 67.4 | 67.0 | 68.9 | 66.2 | 67.7 | 67.9 | 65.4 | 66.6 | 69.0 | 65.8 | 65.0 | 63.5 | 67.7 | 63.1 | 63.1 | -0.1 |
| Been Drunk ${ }^{\text {n }}$ | 43.9 | 44.7 | 44.4 | 40.4 | 47.4 | 43.1 | 47.6 | 46.8 | 45.3 | 42.4 | 43.6 | 39.9 | 40.1 | 40.2 | 42.6 | +2.3 |
| Flavored Alcoholic Beverages ${ }^{\circ}$ | - | - | - | - | 34.0 | 30.9 | 26.2 | 27.5 | 35.8 | 32.3 | 31.5 | 29.5 | 31.3 | 29.1 | 32.9 | +3.8 |
| Cigarettes | 28.2 | 25.7 | 26.7 | 22.5 | 24.3 | 23.8 | 19.2 | 19.9 | 17.9 | 17.9 | 16.4 | 15.2 | 12.5 | 14.0 | 12.9 | -1.1 |
| E-cigarettes ${ }^{\circ}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9.7 | - |
| Large Cigars ${ }^{\circ}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.4 | - |
| Flavored Little Cigars ${ }^{\circ}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9.8 | - |
| Regular Little Cigars ${ }^{\circ}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.6 | - |
| Steroids ${ }^{p}$ | * | 0.3 | * | 0.1 | * | * | * | 0.1 | * | 0.2 | * | 0.2 | * | * | * | 0.0 |

Source. The Monitoring the Future study, the University of Michigan.
See footnotes following Table 9-5.

TABLE 9-4

## Trends in 30-Day Prevalence of Daily ${ }^{r}$ Use of Various Types of Drugs

among College Students 1 to 4 Years beyond High School
(Entries are percentages.)

|  | $\underline{1980}$ | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | (Years cont.) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Approximate Weighted $N=$ | 1,040 | 1,130 | 1,150 | 1,170 | 1,110 | 1,080 | 1,190 | 1,220 | 1,310 | 1,300 | 1,400 | 1,410 | 1,490 | 1,490 | 1,410 | 1,450 | 1,450 | 1,480 | 1,440 | 1,440 |  |
| Marijuana | 7.2 | 5.6 | 4.2 | 3.8 | 3.6 | 3.1 | 2.1 | 2.3 | 1.8 | 2.6 | 1.7 | 1.8 | 1.6 | 1.9 | 1.8 | 3.7 | 2.8 | 3.7 | 4.0 | 4.0 |  |
| Cocaine | 0.2 | * | 0.3 | 0.1 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | * | * | * | * | * | 0.1 | * | * | * | * | * |  |
| Amphetamines ${ }^{9}$ | 0.5 | 0.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Amphetamines, Adjusted ${ }^{\text {g,i }}$ | - | - | 0.3 | 0.2 | 0.2 | * | 0.1 | 0.1 | * | * | * | 0.1 | * | 0.1 | 0.1 | 0.1 | * | 0.2 | 0.1 | 0.1 |  |
| Alcohol ${ }^{m}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Daily | 6.5 | 5.5 | 6.1 | 6.1 | 6.6 | 5.0 | 4.6 | 6.0 | 4.9 | 4.0 | 3.8 | 4.1 | 3.7 | 3.9 | 3.7 | 3.0 | 3.2 | 4.5 | 3.9 | 4.5 |  |
| Been Drunk ${ }^{\text {n }}$ | - | - | - | - | - | - | - | - | - | - | - | 0.5 | 0.2 | 0.3 | 0.8 | 0.5 | 0.1 | 1.3 | 0.8 | 1.0 |  |
| 5+ Drinks in a Row in Last 2 Weeks | 43.9 | 43.6 | 44.0 | 43.1 | 45.4 | 44.6 | 45.0 | 42.8 | 43.2 | 41.7 | 41.0 | 42.8 | 41.4 | 40.2 | 40.2 | 38.6 | 38.3 | 40.7 | 38.9 | 40.0 |  |
| Cigarettes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Daily | 18.3 | 17.1 | 16.2 | 15.3 | 14.7 | 14.2 | 12.7 | 13.9 | 12.4 | 12.2 | 12.1 | 13.8 | 14.1 | 15.2 | 13.2 | 15.8 | 15.9 | 15.2 | 18.0 | 19.3 |  |
| 1/2 Pack+/Day | 12.7 | 11.9 | 10.5 | 9.6 | 10.2 | 9.4 | 8.3 | 8.2 | 7.3 | 6.7 | 8.2 | 8.0 | 8.9 | 8.9 | 8.0 | 10.2 | 8.5 | 9.1 | 11.3 | 11.0 |  |

(Table continued on next page.)

TABLE 9-4 (cont.)
Trends in 30-Day Prevalence of Daily ${ }^{\mathrm{r}}$ Use of Various Types of Drugs
among College Students 1 to 4 Years beyond High School
(Entries are percentages.)

|  | $\underline{2000}$ | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Approximate Weighted $N=$ | 1,350 | 1,340 | 1,260 | 1,270 | 1,400 | 1,360 | 1,280 | 1,250 | 1,270 | 1,320 | 1,260 | 1,230 | 1,150 | 1,090 | 1,030 |  |
| Marijuana | 4.6 | 4.5 | 4.1 | 4.7 | 4.5 | 4.0 | 4.3 | 3.5 | 3.9 | 4.9 | 4.4 | 4.7 | 4.8 | 5.1 | 5.9 | +0.8 |
| Cocaine | * | * | * | * | * | 0.1 | 0.1 | * | * | * | * | * | * | * | * | 0.0 |
| Amphetamines ${ }^{\text {g }}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Amphetamines, Adjusted ${ }^{\text {g,i }}$ | 0.1 | 0.2 | 0.1 | 0.3 | 0.2 | 0.2 | 0.4 | 0.1 | 0.2 | 0.1 | * | 0.2 | 0.1 | * | 0.2 | +0.2 |
| Alcohol ${ }^{\text {m }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Daily | 3.6 | 4.7 | 5.0 | 4.3 | 3.7 | 4.6 | 4.8 | 4.3 | 4.0 | 4.3 | 3.6 | 3.8 | 3.9 | 3.6 | 4.3 | +0.7 |
| Been Drunk ${ }^{\text {n }}$ | 0.7 | 0.5 | 0.8 | 1.1 | 0.8 | 0.5 | 0.6 | 0.7 | 0.5 | 0.7 | 0.3 | 1.3 | 0.4 | 0.5 | 0.4 | -0.2 |
| 5+ Drinks in a Row in Last 2 Weeks | 39.3 | 40.9 | 40.1 | 38.5 | 41.7 | 40.1 | 40.2 | 41.1 | 40.0 | 36.9 | 37.0 | 36.1 | 37.4 | 35.2 | 35.4 | +0.2 |
| Cigarettes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Daily | 17.8 | 15.0 | 15.9 | 13.8 | 13.8 | 12.4 | 9.2 | 9.3 | 9.2 | 8.0 | 7.6 | 7.3 | 5.2 | 5.6 | 5.2 | -0.4 |
| 1/2 Pack+/Day | 10.1 | 7.8 | 7.9 | 7.6 | 6.8 | 6.7 | 4.9 | 4.3 | 4.3 | 3.8 | 3.9 | 2.5 | 2.4 | 2.4 | 2.4 | 0.0 |

Source. The Monitoring the Future study, the University of Michigan.
See footnotes following Table 9-5.

TABLE 9-5
Trends in Lifetime, Annual, and 30-Day Prevalence of an Illicit Drug Use Index ${ }^{\text {a }}$ among College Students 1 to 4 Years beyond High School, by Gender
$\underline{1980}^{i} \underline{1981}^{i} \quad \underline{1982} \quad \underline{1983} \quad \underline{1984} \quad \underline{1985} \quad \underline{1986} \quad \underline{1987} \quad \underline{1988} \quad \underline{1989} \quad \underline{1990} \quad \underline{1991} \quad \underline{1992} \quad \underline{1993} \quad \underline{1994} \quad \underline{1995} \quad \underline{1996} \quad \underline{1997}$

| Any Illicit Drug | Percentage who used in lifetime |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 69.4 | 66.8 | 64.6 | 66.9 | 62.7 | 65.2 | 61.8 | 60.0 | 58.4 | 55.6 | 54.0 | 50.4 | 48.8 | 45.9 | 45.5 | 45.5 | 47.4 | 49.0 |
| Males | 71.0 | 67.5 | 68.1 | 71.3 | 66.4 | 69.8 | 64.7 | 63.5 | 56.0 | 56.5 | 52.5 | 51.3 | 50.8 | 45.7 | 49.5 | 47.3 | 50.3 | 52.1 |
| Females | 67.5 | 66.3 | 61.5 | 63.0 | 59.2 | 61.6 | 59.4 | 57.4 | 60.2 | 54.9 | 55.1 | 49.7 | 47.1 | 46.0 | 42.6 | 44.3 | 45.6 | 46.7 |
| Any Illicit Drug other than Marijuana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 42.2 | 41.3 | 39.6 | 41.7 | 38.6 | 40.0 | 37.5 | 35.7 | 33.4 | 30.5 | 28.4 | 25.8 | 26.1 | 24.3 | 22.0 | 24.5 | 22.7 | 24.4 |
| Males | 42.8 | 39.8 | 45.1 | 44.6 | 40.9 | 42.1 | 38.2 | 37.2 | 31.8 | 30.6 | 26.2 | 27.6 | 26.3 | 24.3 | 24.6 | 26.6 | 25.0 | 27.3 |
| Females | 41.6 | 42.6 | 34.7 | 39.2 | 36.4 | 38.3 | 37.0 | 34.6 | 34.6 | 30.4 | 30.1 | 24.3 | 26.1 | 24.3 | 20.1 | 22.9 | 21.2 | 22.2 |
|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Any Illicit Drug |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 56.2 | 55.0 | 49.5 | 49.8 | 45.1 | 46.3 | 45.0 | 40.1 | 37.4 | 36.7 | 33.3 | 29.2 | 30.6 | 30.6 | 31.4 | 33.5 | 34.2 | 34.1 |
| Males | 58.9 | 56.2 | 54.6 | 53.4 | 48.4 | 50.9 | 49.8 | 43.3 | 37.0 | 38.2 | 34.2 | 30.2 | 32.8 | 32.6 | 33.9 | 36.1 | 36.6 | 38.3 |
| Females | 53.3 | 54.0 | 44.9 | 46.7 | 41.9 | 42.7 | 41.1 | 37.7 | 37.6 | 35.4 | 32.5 | 28.4 | 28.7 | 29.1 | 29.5 | 31.7 | 32.7 | 31.1 |
| Any Illicit Drug other than Marijuana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 32.3 | 31.7 | 29.9 | 29.9 | 27.2 | 26.7 | 25.0 | 21.3 | 19.2 | 16.4 | 15.2 | 13.2 | 13.1 | 12.5 | 12.2 | 15.9 | 12.8 | 15.8 |
| Males | 33.7 | 32.8 | 33.4 | 33.5 | 29.2 | 29.7 | 28.6 | 23.5 | 19.4 | 18.7 | 15.7 | 14.4 | 13.8 | 15.0 | 14.9 | 19.5 | 15.1 | 18.1 |
| Females | 31.1 | 30.8 | 26.9 | 26.8 | 25.2 | 24.4 | 22.1 | 19.6 | 19.0 | 14.6 | 14.8 | 12.1 | 12.6 | 10.5 | 10.2 | 13.3 | 11.3 | 14.1 |
|  | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Any Illicit Drug |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 38.4 | 37.6 | 31.3 | 29.3 | 27.0 | 26.1 | 25.9 | 22.4 | 18.5 | 18.2 | 15.2 | 15.2 | 16.1 | 15.1 | 16.0 | 19.1 | 17.6 | 19.2 |
| Males | 42.9 | 40.6 | 37.7 | 33.8 | 30.4 | 29.9 | 31.0 | 24.0 | 18.8 | 20.0 | 18.2 | 16.0 | 18.0 | 16.0 | 20.5 | 23.7 | 20.6 | 23.4 |
| Females | 34.0 | 34.8 | 25.6 | 25.5 | 23.7 | 23.2 | 21.7 | 21.1 | 18.3 | 16.7 | 12.7 | 14.6 | 14.5 | 14.5 | 12.7 | 15.7 | 15.8 | 16.2 |
| Any Illicit Drug other than Marijuana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 20.7 | 18.6 | 17.1 | 13.9 | 13.8 | 11.8 | 11.6 | 8.8 | 8.5 | 6.9 | 4.4 | 4.3 | 4.6 | 5.4 | 4.6 | 6.3 | 4.5 | 6.8 |
| Males | 22.8 | 18.6 | 20.2 | 16.0 | 16.1 | 12.6 | 14.4 | 9.0 | 8.2 | 8.0 | 4.9 | 4.8 | 5.1 | 7.3 | 6.2 | 8.8 | 6.1 | 7.8 |
| Females | 18.7 | 18.5 | 14.2 | 12.1 | 11.5 | 11.2 | 9.3 | 8.5 | 8.8 | 6.0 | 4.0 | 3.9 | 4.2 | 3.8 | 3.4 | 4.5 | 3.4 | 6.1 |
|  | Approximate Weighted $N$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All Respondents |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 1,040 | 1,130 | 1,150 | 1,170 | 1,110 | 1,080 | 1,190 | 1,220 | 1,310 | 1,300 | 1,400 | 1,410 | 1,490 | 1,490 | 1,410 | 1,450 | 1,450 | 1,480 |
| Males | 520 | 530 | 550 | 550 | 540 | 490 | 540 | 520 | 560 | 580 | 620 | 640 | 680 | 660 | 590 | 610 | 560 | 630 |
| Females | 520 | 600 | 610 | 620 | 570 | 600 | 650 | 700 | 750 | 720 | 780 | 770 | 810 | 830 | 820 | 840 | 890 | 860 |

(Table continued on next page.)

TABLE 9-5 (cont.)
Trends in Lifetime, Annual, and 30-Day Prevalence of an Illicit Drug Use Index ${ }^{\text {a }}$ among College Students 1 to 4 Years beyond High School, by Gender

| 1998 | 1999 | 2000 | $\underline{2001}$ | $\underline{2002}$ | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ | $\underline{2014}$ | $\begin{gathered} 2013- \\ 2014 \\ \text { change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percentage who used in lifetime |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 52.9 | 53.2 | 53.7 | 53.6 | 51.8 | 53.9 | 52.2 | 52.3 | 50.6 | 50.5 | 49.5 | 51.4 | 49.1 | 49.2 | 50.5 | 53.3 | 52.4 | -0.9 |
| 54.4 | 58.4 | 54.4 | 53.9 | 54.3 | 54.1 | 54.9 | 54.2 | 55.0 | 52.3 | 50.7 | 53.2 | 53.5 | 52.3 | 52.4 | 53.7 | 54.5 | +0.8 |
| 52.0 | 49.6 | 53.2 | 53.5 | 50.2 | 53.7 | 50.6 | 51.3 | 47.8 | 49.4 | 48.8 | 50.2 | 46.2 | 47.3 | 49.2 | 53.0 | 50.9 | -2.1 |

Any Illicit Drug other than Marijuana

| Total | 24.8 | 25.5 | 25.8 | 26.3 | 26.9 | 27.6 | 28.0 | 26.5 | 26.3 | 25.3 | 22.6 | 25.6 | 24.8 | 24.3 | 23.8 | 28.3 | 29.0 | +0.7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Males | 27.3 | 29.4 | 28.9 | 27.0 | 30.4 | 27.6 | 31.1 | 29.0 | 29.2 | 26.5 | 25.2 | 29.9 | 27.8 | 27.8 | 26.0 | 30.4 | 29.8 | -0.6 |
| Females | 23.3 | 22.8 | 23.5 | 25.9 | 24.6 | 27.5 | 26.2 | 25.1 | 24.4 | 24.6 | 21.0 | 22.7 | 22.8 | 22.1 | 22.2 | 26.8 | 28.3 | +1.5 |
|  | Percentage who used in last 12 months |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Any Illicit Drug |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 37.8 | 36.9 | 36.1 | 37.9 | 37.0 | 36.5 | 36.2 | 36.6 | 33.9 | 35.0 | 35.2 | 36.0 | 35.0 | 36.3 | 37.3 | 40.5 | 38.6 | -1.9 |
| Males | 40.1 | 42.5 | 38.0 | 38.8 | 39.5 | 39.2 | 40.9 | 40.7 | 39.2 | 38.0 | 38.7 | 37.6 | 40.3 | 41.2 | 39.5 | 41.3 | 39.2 | -2.0 |
| Females | 36.4 | 33.2 | 34.7 | 37.3 | 35.4 | 34.8 | 33.4 | 34.2 | 30.6 | 33.1 | 32.9 | 35.0 | 31.6 | 33.2 | 35.7 | 40.0 | 38.2 | -1.8 |
| Any Illicit Drug other than Marijuana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 14.0 | 15.4 | 15.6 | 16.4 | 16.6 | 17.9 | 18.6 | 18.5 | 18.1 | 17.3 | 15.3 | 16.9 | 17.1 | 16.8 | 17.1 | 19.3 | 20.8 | +1.6 |
| Males | 17.0 | 19.0 | 18.6 | 17.2 | 19.2 | 19.3 | 22.1 | 21.1 | 22.6 | 19.0 | 17.8 | 19.7 | 20.3 | 20.1 | 19.6 | 22.0 | 21.8 | -0.2 |
| Females | 12.1 | 12.8 | 13.5 | 15.8 | 15.0 | 17.1 | 16.5 | 16.9 | 15.2 | 16.3 | 13.7 | 15.0 | 15.1 | 14.7 | 15.4 | 17.4 | 20.1 | +2.7 |


| Any Illicit Drug | Percentage who used in last 30 days |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 19.7 | 21.6 | 21.5 | 21.9 | 21.5 | 21.4 | 21.2 | 19.5 | 19.2 | 19.3 | 18.9 | 20.7 | 19.2 | 21.4 | 22.3 | 22.8 | 22.7 | -0.1 |
| Males | 23.1 | 26.7 | 24.0 | 25.0 | 25.1 | 22.8 | 26.1 | 22.9 | 23.4 | 22.7 | 23.1 | 23.4 | 25.9 | 27.0 | 27.0 | 27.8 | 25.9 | -1.9 |
| Females | 17.6 | 18.1 | 19.6 | 19.8 | 19.3 | 20.5 | 18.4 | 17.5 | 16.6 | 17.1 | 16.2 | 19.0 | 15.0 | 17.9 | 19.1 | 19.3 | 20.2 | +0.9 |
| Any Illicit Drug other than Marijuana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 6.1 | 6.4 | 6.9 | 7.5 | 7.8 | 8.2 |  | 8.2 | 8.2 | 8.1 | 7.3 | 8.4 | 8.1 | 8.2 | 7.8 | 8.8 | 10.0 | +1.2 |
| Males | 8.6 | 7.5 | 8.2 | 9.0 | 8.4 | 8.1 | 11.3 | 10.3 | 10.3 | 9.5 | 9.6 | 9.0 | 10.4 | 10.6 | 9.2 | 11.2 | 12.4 | +1.2 |
| Females | 4.6 | 5.6 | 6.0 | 6.4 | 7.4 | 8.3 | 7.8 | 7.0 | 6.9 | 7.2 | 5.8 | 8.0 | 6.7 | 6.7 | 6.8 | 7.2 | 8.3 | +1.1 |



## Footnotes for Tables 9-1 through 9-5

Notes. Level of significance of difference between the two most recent years: $\mathrm{s}=.05, \mathrm{ss}=.01, \mathrm{sss}=.001$. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. ' - ' indicates data not available. ' *' indicates a prevalence rate of less than $0.05 \%$
${ }^{\text {a Any }}$ illicit drug includes use of marijuana, hallucinogens, cocaine, heroin or other narcotics, amphetamines, sedatives (barbiturates), methaqualone (until 1990), or tranquilizers not under a doctor's orders.
${ }^{b}$ This drug was asked about in four of the five questionnaire forms in 1980-1989, in five of the six forms in 1990-1998, and in three of the six forms in 1999-2014. Total $N$ in 2014 is approximately 520 . ${ }^{c}$ In 2001 the question text was changed on three of the six questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. Beginning in 2002 the remaining forms were changed to the new wording.
${ }^{\text {d }}$ This drug was asked about in two of the five questionnaire forms in 1989, in two of the six questionnaire forms in 1990-2001, and in three of the six questionnaire forms in 2002-2014. Total $N$ in 2014 is approximately 520.
${ }^{\text {e }}$ This drug was asked about in one of the five questionnaire forms for annual use only in 1986, two of the five questionnaire forms in 1987-1989, in all six questionnaire forms in 1990-2001, and in five of the six questionnaire forms in 2002-2014. Total $N$ in 2014 is approximately 860.
'This drug was asked about in one of the five questionnaire forms in 1987-1989 and in four of six questionnaire forms in 1990-2014. Total $N$ in 2014 is approximately 690.
${ }^{9}$ Only drug use that was not under a doctor's orders is included here.
${ }^{\text {h }}$ In 2002 the question text was changed on three of the six questionnaire forms. The list of examples of narcotics other than heroin was updated: Talwin, laudanum, and paregoric-all of which had negligible rates of use by 2001-were replaced by Vicodin, OxyContin, and Percocet. The 2002 data presented here are based on the changed forms only;
$N$ is three sixths of $N$ indicated. In 2003 the remaining forms were changed to the new wording. The data are based on all forms in 2003 and beyond.
'Revised questions about amphetamine use were introduced in 1982 to more completely exclude inappropriate reporting of nonprescription amphetamines. In 2013 the question wording was changed slightly in thee of the six questionnaire forms. 2013 data are based on the changed forms only; N is one half of N indicated.
${ }^{\text {I }}$ This drug was asked about in two of the six questionnaire forms. Total $N$ in 2014 is approximately 340 . Questions about Rohypnol use were dropped from the
questionnaires beginning in 2010
${ }^{\text {k }}$ Sedatives, adjusted data are a combination of barbiturate and methaqualone data.
In 2001 the question text was changed on three of the six questionnaire forms. Miltown was replaced with Xanax in the list of examples. Beginning in 2002 the remaining forms were changed to the new wording.
m In 1993 and 1994, the question text was changed slightly in three of the six questionnaire forms to indicate that a drink meant more than just a few sips. Because this revision resulted in rather little change in reported prevalence in the surveys of high school graduates, the data for all forms combined are used in order to provide the most reliable estimate of change
After 1994 the new question text was used in all six of the questionnaire forms.
${ }^{n}$ This drug was asked about in three of the six questionnaire forms. Total $N$ in 2014 is approximately 520.
${ }^{\circ}$ This drug was asked about in one of the six questionnaire forms. Total $N$ in 2014 is approximately 170.
${ }^{\mathrm{p}}$ This drug was asked about in one of the five questionnaire forms in 1989 and in two of the six questionnaire forms in 1990-2014. Total $N$ in 2014 is approximately 340.
${ }^{\text {q }}$ This drug was asked about in two of the six questionnaire forms through 2010 and in three of the six questionnaire forms beginning in 2011. Total $N$ in 2014 is approximately 520 .
'Daily use is defined as use on 20 or more occasions in the past 30 days except for cigarettes, measured as actual daily use, and $5+$ drinks,
measured as having five or more drinks in a row in the last two weeks.
${ }^{\text {s }}$ In 2012 the alcoholic beverage containing caffeine question text was changed to alcoholic beverage mixed with an energy drink. The data in 2011 and 2012 are not comparable due to this question change.
${ }^{\text {t }}$ In 2013 the question text was changed on all forms: Tuinal, Nembutal, and Seconal were replaced with Ambien, Lunesta, and Sonata. The data in 2012 and
2013 are not comparable due to this question change.
"This drug was asked about in two of the six questionnaire forms in 2011-2012; N is two sixths of N indicated. Data were based on three of the six
questionaire forms beginning in 2013; N is three sixths of N indicated.
"This drug was asked about in one of the six questionnaire forms in 2009; N is one sixth of N indicated; Data were based on two of the six questionnaire forms in 2010-2011; N is two sixths of N indicated. Data were based on three of the six questionnaire forms beginning in $2012 ; \mathrm{N}$ is three sixths of N indicated.
whis drug was asked about in two of the six questionnaire forms in 2002-2009; N is two sixths of N indicated; Data were based on three of the six questionnaire forms in 2010-2011; N is three sixths of N indicated. Data were based on two of the six questionnaire forms in 2012-2014; N is two sixths of N indicated.
${ }^{\times}$This drug was asked about in all six questionaire forms from 1980-2013. Data based on five of six forms beginning in 2014; N is five sixths of N indicated.
${ }^{y}$ This drug asked about in three of six questionnaire forms from 2011-2013; $N$ is one half of $N$ indicated. Beginning in 2014, data based on two of six questionnaire forms; $N$ is two sixths of $N$ indicated.

FIGURE 9-1
ANY ILLICIT DRUG
Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)


ANY ILLICIT DRUG

## Trends in Annual Prevalence among Male vs. Female College Students



Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-2
ANY ILLICIT DRUG OTHER THAN MARIJUANA
Trends in Annual Prevalence among College Students vs. Others

## 1 to 4 Years beyond High School

(Twelfth graders included for comparison.)


ANY ILLICIT DRUG OTHER THAN MARIJUANA
Trends in Annual Prevalence among Male vs. Female College Students


Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-3a
MARIJUANA
Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)



FIGURE 9-3b
MARIJUANA
Trends in 30-Day Prevalence of Daily Use among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)



Source. The Monitoring the Future study, the University of Michigan.
Note.
Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-4
SYNTHETIC MARIJUANA

## Trends in Annual Use among College Students vs. Others

1 to 4 Years beyond High School
(Twelfth graders included for comparison.)



Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-5
INHALANTS ${ }^{\text {a }}$
Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)



Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college. ${ }^{\text {a }}$ Unadjusted for the possible underreporting of amyl and butyl nitrites.

FIGURE 9-6
HALLUCINOGENS ${ }^{\text {a }}$
Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)


HALLUCINOGENS ${ }^{\text {a }}$

## Trends in Annual Prevalence

 among Male vs. Female College Students

Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college ${ }^{\mathrm{a}}$ Unadjusted for the possible underreporting of PCP.

FIGURE 9-7
LSD
Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)



Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-8
HALLUCINOGENS OTHER THAN LSD
Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)


HALLUCINOGENS OTHER THAN LSD
Trends in Annual Prevalence among Male vs. Female College Students


Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-9
ECSTASY (MDMA)
Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)


ECSTASY (MDMA)
Trends in Annual Prevalence among Male vs. Female College Students


Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-10

## COCAINE

Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)


COCAINE
Trends in Annual Prevalence among Male vs. Female College Students


Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-11a
NARCOTICS OTHER THAN HEROIN ${ }^{\text {a }}$
Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)


NARCOTICS OTHER THAN HEROIN ${ }^{\text {a }}$
Trends in Annual Prevalence
among Male vs. Female College Students


Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college. ${ }^{\text {a }}$ In 2002 the question text was changed on half of the questionnaire forms. The list of examples of narcotics other than heroin was updated: Talwin, laudanum, and paregoric-all of which had negligible rates of use by 2001—were replaced by Vicodin, OxyContin, and Percocet. The 2002 data presented here are based on the changed forms only. In 2003 the remaining forms were changed to the new wording.

FIGURE 9-11b
VICODIN
Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)


Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-11c
OXYCONTIN
Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)


Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-12
AMPHETAMINES
Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)


AMPHETAMINES
Trends in Annual Prevalence among Male vs. Female College Students


Source
The Monitoring the Future study, the University of Michigan.
Note.
Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-13
SEDATIVES (BARBITURATES)
Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)


SEDATIVES (BARBITURATES)
Trends in Annual Prevalence among Male vs. Female College Students


Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-14
TRANQUILIZERS
Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)



Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-15a

## ALCOHOL

Trends in Annual Prevalence among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)


ALCOHOL
Trends in Annual Prevalence among Male vs. Female College Students


Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-15b

## ALCOHOL

Trends in 30-Day Prevalence among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)


ALCOHOL
Trends in 30-Day Prevalence among Male vs. Female College Students


[^85]FIGURE 9-15c
ALCOHOL
Trends in 30-Day Prevalence of Daily Use among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)



Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-15d
ALCOHOL

## Trends in 2-Week Prevalence of 5 or More Drinks in a Row among College Students vs. Others <br> 1 to 4 Years beyond High School <br> (Twelfth graders included for comparison.)



## ALCOHOL

Trends in 2-Week Prevalence of 5 or More Drinks in a Row among Male vs. Female College Students


Source.
The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-16a

## CIGARETTES

Trends in 30-Day Prevalence among College Students vs. Others 1 to 4 Years beyond High School
(Twelfth graders included for comparison.)


CIGARETTES
Trends in 30-Day Prevalence among Male vs. Female College Students


Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-16b
CIGARETTES

## Trends in 30-Day Prevalence of Daily Use among College Students vs. Others

 1 to 4 Years beyond High School(Twelfth graders included for comparison.)


CIGARETTES
Trends in 30-Day Prevalence of Daily Use among Male vs. Female College Students


Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

FIGURE 9-16c
CIGARETTES
Trends in 30-Day Prevalence of Smoking a Half Pack or More per Day among College Students vs. Others
1 to 4 Years beyond High School
(Twelfth graders included for comparison.)



Source. The Monitoring the Future study, the University of Michigan.
Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

## INDEX

## A

Adderall
cohort effect 15, 26,
harmfulness, perceived 233, Table 6-1
prevalence 88, Table 4-3
college enrollment 358, 359, 361 Table 8-2
gender 26, 151, 360
population density 96
race/ethnicity 33
trends 40, 135, Table 2-2, Table 5-2
college enrollment 372, Table 9-2
alcohol
binge drinking
college enrollment 358-359
disapproval 239
friends' disapproval 289
gender 93, 154, 360-361, 380
harmfulness, perceived Figure 6-31
population density 96,167
prevalence 90-91
region 95, 160
trends 38, 136, 145
daily use
college enrollment 358, 376, Table 8-4,
Table 9-4, Figure 9-15c
disapproval 239
friends’ disapproval 287
gender 93, 380, Table 8-4
harmfulness, perceived 235
population density 96
prevalence 90, Table 4-1, Table 4-5,
Figure 4-20b, Table 8-4
region 160
trends 145, Table 2-4, Table 5-4, Figure 5-18c,
Figure 9-15c
disapproval Table 6-2
drunk, been
friends’ use 292, Table 7-2
gender 360, Tables 4-1-4-4, Tables 8-1-8-3
prevalence 95, Tables 4-1-4-4, Tables 8-1-8-3
college enrollment 359, 358-359
race/ethnicity 33
trends 28, 295, Tables 2-1-2-4, Tables 5-1-5-4,
Tables 9-1-9-4
exposure to use 292, 295, Table 7-3, Figure 7-23-7-24
extreme binge drinking
gender 93, 361
prevalence 91, 358
trends 361
flavored alcoholic beverages
college enrollment 359, Tables 8-1-8-3, Tables 9-1-9-4
gender 361, Tables 4-1-4-4, Tables 8-1-8-3
population density Tables 4-2-4-4
prevalence Tables 4-1-4-4, Tables 8-1-8-3
region Tables 4-2-4-4
trends Tables 5-1-5-3, Tables 9-1-9-4
friends' use 292, Table 7-2
harmfulness, perceived 235, Table 6-1, Figures 6-28-6-30
heavy drinking
college enrollment 27, 358, 375-376
disapproval 239
friends' disapproval 286, 287, 289
friends' use 292, Table 7-2
gender 154, 361
harmfulness, perceived 235
population density 96,167
prevalence 85, 90
race/ethnicity 33
region 160
trends 27, 39, 144-145, 375
prevalence 27, 35, 36, 85, 90, Table 4-1,
Figures 4-20a-4-20b
college enrollment 358-359, Tables 8-1-8-4
gender Tables 8-1-8-4
population density 96
race/ethnicity 33
region 95
trends 27-28, 136, 144, 153, Tables 2-1-2-4, Tables 5-1-5-4, Figures 5-18a-5-18d
college enrollment 27, 375-376, Tables 9-1-9-4,
Figures 9-15a-9-15d
gender 27, 28, 153, 380, Figures 9-15a-9-15d
population density 166
region 159-160
amphetamines
availability, perceived 296, 300, Table 7-4
cohort effect 14-15, 22, 26
daily use Table 8-4, Table 9-4
disapproval 238, Table 6-2
exposure to use 291, Table 7-3, Figures 7-17-7-18
friends’ disapproval, perceived 286, 288, Table 7-1
friends' use 294, Table 7-2
harmfulness, perceived 231, 233, Table 6-1,
Figures 6-23-6-24
prevalence 35, 39, 87, Tables 4-1-4-4, Figure 4-4
college enrollment 358,359, Tables 8-1-8-4
gender 94, 360, Tables 4-1-4-4, Tables 8-1-8-4
population density 96, Tables 4-2-4-4
region Tables 4-2-4-4
trends 39, 136, 140, 142-143, 370, Tables 2-1-2-3, Tables 5-1-5-3, Tables 6-1-6-2, Tables 7-1-7-4, Tables 9-1-9-4, Figure 5-13
college enrollment 371-372, 377, 378, Figure 9-12
gender 151, 379-380, Figure 9-12
population density 165
race/ethnicity 33, 34
region 155,157
amyl nitrites (See nitrites)
anabolic steroids (See steroids)
androstenedione 24
any illicit drug
cohort effect 7-8
exposure to use 293, Table 7-3, Figure 7-1-7-2
friends' use Table 7-2
prevalence 7-8, 85, Figure 4-1
college enrollment 357, 359, Tables 8-1-8-3
gender 93, 359, Tables 4-1-4-4, Tables 8-1-8-3
population density 96, Tables 4-2-4-4
region 94, Tables 4-2-4-4
trends 7-8, 135, 136, 137, 140, Tables 2-1-2-3, Tables 5-1-5-5, Figure 2-1, Figure 5-1
college enrollment $25,369,378$, Tables 9-1-9-3, Figure 9-1
gender 148, 378, Table 5-5, Table 9-5, Figure 9-1
population density 161
region 155
any illicit drug other than marijuana
cohort effect 8, 12, 26
exposure to use (see also friends’ use) 293, Table 7-3, Figures 7-3-7-4
friends' use Table 7-2
prevalence 85, 86, Figure 4-2
college enrollment 357, 359-360, Tables 8-1-8-3
gender 93, 359-360, Tables 4-1-4-4, Tables 8-1-8-3
population density 96, Tables 4-2-4-4
region 95, Tables 4-2-4-4
trends $8,12,135,136,138,140$, Tables 2-1-2-3,
Tables 5-1-5-5, Figure 5-2
college enrollment 369, 370, 378, Tables 9-1-9-5, Figure 9-2
gender 26, 148, 378, Table 5-5, Table 9-5, Figure 9-2
population density 161
region 155

## B

barbiturates (See sedatives)
bath salts
harmfulness, perceived 234, Table 6-1
prevalence 8, 40, 86
college enrollment 358, Table 8-2
gender 93, 152, Table 4-1, Table 4-3
population density 96, Table 4-3
region 158, Table 4-3
trends Table 2-2, Table 5-2,
college enrollment 371, Table 9-2
gender 152
perceived risk 152
population density 165
region 158
bidis Table 2-2
butyl nitrites (See nitrites)

## C

cigars
prevalence 92, Tables 4-3-4-4
college enrollment Tables 8-2-8-3
gender 94, Tables 8-2-8-3
population density 96, 97
region 95
trends Tables 2-2-2-3, Table 5-2, Tables 9-2-9-3
cigarettes
availability, perceived 31, 296
cohort effect 5, 30, 91, 94, 146-147, 160, 289
daily use
college enrollment 359, 377, Table 8-4,
Table 9-4, Figures 9-16b-9-16c
disapproval 239, Table 6-2
friends' disapproval, perceived 286, 287, 289, Table 7-1
gender 94, 154, 361, 380, Table 4-1, Table 4-5,
Table 8-4, Figures 9-16b-9-16c
harmfulness, perceived 235, Table 6-1,
Figure 6-32
population density 96, 167, Table 4-5
prevalence 38, 39, 91-92, Table 4-5, Figure 4-21
region 95, 160, Table 4-5
trends 39, 136, 154, 377, Table 2-4, Table 5-4,
Table 9-4, Figure 5-19b-5-19c
disapproval 30, 239, Table 6-2
friends' disapproval, perceived 287, 289, Table 7-1
friends' use 292, 295-296, Table 7-2
harmfulness, perceived 30, 235, Table 6-1, Figure 6-32
prevalence 9, 35, 38, 39, 91-92, Figure 4-21
college enrollment 359, Tables 8-1-8-4
gender 94, 361, Tables 4-1-4-5, Tables 8-1-8-4
population density 96, Tables 4-2-4-5
race/ethnicity 33
region 95, Tables 4-2-4-5
trends 9, 28-32, 136, 146-147, Tables 2-2-2-4, Tables 5-1-5-4, Figure 5-19a-5-19c
college enrollment 31-32, 377, Tables 9-1-9-4, Figures 9-16a-19-16c
gender 32, 154, 160, 380, Figures 9-16a-9-16c population density 167
race/ethnicity 33
region 160
club drugs (See GHB; ketamine; Rohypnol)
cocaine
availability, perceived 18, 36, 296-297, 298, Table 7-4
cohort effect 18, 22, 26, 141, 240
disapproval 236, 237-238, Table 6-2
exposure to use (see also friends' use) 291, 293,
Table 7-3, Figures 7-11-7-12
friends' disapproval, perceived 286, 288, Table 7-1
friends' use 18, 294, Table 7-2
harmfulness, perceived 18, 232-233, Table 6-1, Figures 6-9-6-11
prevalence 22, 35, 38, 84, 85, 87, 89, Figure 4-7
college enrollment Tables 8-1-8-4
gender 93, Tables 4-1-4-4, Tables 8-1-8-4
population density 96, Tables 4-2-4-4
region Tables 4-2-4-4
trends $18,26,135,136,140$, Tables 2-1-2-3, Tables 5-1-5-3, Figure 5-9
college enrollment 375, 378, Tables 9-1-9-4, Figure 9-10
gender 26, 150, 379, Figure 9-10
population density 164
race/ethnicity 34
region 155,157
See also cocaine powder; crack cocaine
cocaine, other (See cocaine powder)
cocaine powder
availability, perceived 296-297, Table 7-4
cohort effect 18
friends' use 291, Table 7-2
harmfulness, perceived 18, 231, Table 6-1, Figures 6-15-6-17
prevalence 87, Figure 4-9
college enrollment Tables 8-1-8-3
gender 26, Tables 4-1-4-4, Tables 8-1-8-3
population density 96, Tables 4-2-4-4
region Tables 4-2-4-4
trends 135, Tables 2-1-2-3, Tables 5-1-5-3
college enrollment Tables 9-1-9-3
codeine 20
cough/cold medicines Table 2-2
crack cocaine
availability, perceived 296, 298, Table 7-4
cohort effect 16-17, 240
friends' use 291, 294, Table 7-2
harmfulness, perceived 17, 233, Table 6-1, Figures 6-12-6-14
prevalence 17, 35, 44, 87, 89, Figure 4-8 college enrollment Table 8-1-8-3 gender 26, 93, Tables 4-1-4-4, Table 8-1-8-3 population density Tables 4-2-4-4 race/ethnicity 34, region Tables 4-2-4-4
trends 136, 140, 141, Tables 2-1-2-3, Tables 5-1-5-3, Figure 5-10
college enrollment Tables 9-1-9-3
gender 150
population density 164 region 155, 157
creatine
prevalence 24
gender 24
crystal methamphetamine (ice)
availability, perceived 297, 300, Table 7-4
cohort effect 16
harmfulness, perceived 233, 240, Table 6-1, Figure 6-25
prevalence 87, 88, Figure 4-6 college enrollment 358, Tables 8-1-8-3
gender Tables 4-1-4-4, Tables 8-1-8-3
population density Tables 4-2-4-4
race/ethnicity 34
region Tables 4-2-4-4
trends 140, 143, Tables 2-1-2-3, Tables 5-1-5-3, Figure 5-14
college enrollment Table 9-1-9-3
gender 152
population density 165
region 157-158

## D

Dextromethorphan 25
diet pills 24, 25

## E

e-cigarettes
harmfulness, perceived 9, Table 6-1
prevalence 9, 39, Table 4-4
college enrollment Table 8-3 gender Table 8-3
trends Table 2-3, Table 9-3
ecstasy (MDMA)
availability, perceived 14, 297, 299, Table 7-4
cohort effect 13-14, 140, 240
disapproval 237, Table 6-2
exposure to use (see also friends’ use) 291
friends’ use 294-295, Table 7-2
harmfulness, perceived 140, 231-232, 240, Table 6-1, Figures 6-18-6-19
prevalence 23, 35, 89-90, Figure 4-17
college enrollment 357, Tables 8-1-8-3
gender 26, 93, Table 4-1-4-4, Tables 8-1-8-3
population density 96, Tables 4-2-4-4
race/ethnicity 33
region 95, Tables 4-2-4-4
trends 23, 139-140, Tables 2-1-2-3, Tables 5-1-5-3,
Figure 5-8
college enrollment 370, 373, 378, 379, Tables 9-1-9-3, Figure 9-9
gender 149, 379, Figure 9-9
population density 163-164
region 156

## F

flavored alcoholic beverages (See alcohol)
flavored little cigars (See cigars)

## G

GHB
cohort effects 23
prevalence 23
college enrollment 358, Table 8-2
gender 93, Table 4-3, Table 8-2
population density 96, Table 4-3
region Table 4-3
trends 40, Table 2-2, Table 5-2
college enrollment Table 9-2
gender 153
region 159

## H

hallucinogens
prevalence 87, Figure 4-10
college enrollment 25, 360, Tables 8-1-8-3
gender 93, 360, 361, Tables 4-1-4-4,
Tables 8-1-8-3
population density Tables 4-2-4-4
race/ethnicity 33
region 95, Tables 4-2-4-4
trends 136, 140, Table 2-1-2-3, Tables 5-1-5-3,
Figure 5-5
college enrollment 28, 378, Tables 9-1-9-3,
Figure 9-6
gender Figure 9-6
hallucinogens other than LSD
availability, perceived 297, 299, Table 7-4
exposure to use (see also friends' use) 291,
Table 7-3, Figures 7-9-7-10
friends' use 291, Table 7-2
prevalence 35, 87, Figure 4-12
college enrollment 357, Tables 8-1-8-3
gender 93, Tables 4-1-4-4, Tables 8-1-8-3
population density 96, Tables 4-2-4-4
race/ethnicity 33
region 95, Tables 4-2-4-4
trends 139, Tables 2-1-2-3, Tables 5-1-5-3, Figure 5-7
college enrollment 372, Tables 9-1-9-3, Figure 9-8
gender 149, 379, Figure 9-8
population density 162
hashish (See marijuana)
heroin (including with and without a needle)
availability, perceived 297, 299, Table 7-4
cohort effect 19, 240
disapproval 20, 236, 237, Table 6-2
exposure to use (see also friends’ use) 35, Table 7-3, Figures 7-13-7-14
friends' use 291, Table 7-2
harmfulness, perceived 19-20, 231, 234, Table 6-1, Figures 6-20-6-22
prevalence 19, 37, 68, 87, Figure 4-19
college enrollment 357, Tables 8-1-8-3
gender 26, 93, Tables 4-1-4-4, Tables 8-1-8-3
population density Tables 4-2-4-4
race/ethnicity 34
region Tables 4-2-4-4
trends 40, 141, Tables 2-1-2-3, Tables 5-1-5-3, Figure 5-11
college enrollment Tables 9-1-9-3
gender 150
population density 166
region 158
hydrocodone 20

I
ice (See crystal methamphetamine)
inhalants
cohort effect 16, 22, 25
friends' use 291, Table 7-2
harmfulness, perceived 16
prevalence 16, 35, 38, 87, Figure 4-13
college enrollment 357, Tables 8-1-8-3
gender 27, Tables 4-1-4-4, Tables 8-1-8-3
population density Tables 4-2-4-4
race/ethnicity 33
region Tables 4-2-4-4
trends 35, 138-139, Tables 2-2-2-3, Tables 5-1-5-3, Figure 5-4
college enrollment 372, 378, Table 9-1-9-3, Figure 9-5
gender 153, Figure 9-5
population density 166
region 156
ketamine (Special K)
prevalence 23
college enrollment 357-358, Table 8-2
gender 93, Table 4-3, Table 8-2
population density 96, Table 4-3
region Table 4-3
trends 23, 46, Table 2-2, Table 5-2
college enrollment Table 9-2
gender 153
region 159
kreteks Table 2-2

## L

large cigars (See cigars)
look-alike drugs 24, 25
LSD
availability, perceived 13, 297, 298, Table 7-4
cohort effect 12-13, 22, 240
disapproval 13, 236, 237, Table 6-2
exposure to use (see also friends' use) Table 7-3, Figures 7-7-7-8
friends’ disapproval, perceived 286, 288, Table 7-1
friends’ use 291, Table 7-2
harmfulness, perceived 12-13, 231, 240, Table 6-1, Figures 6-6-6-7
prevalence 22, 35, 87, Tables 4-1-4-4, Figure 4-11
college enrollment 357, Tables 8-1-8-3
gender 93, Tables 4-1-4-4, Tables 8-1-8-3
population density Tables 4-2-4-4
race/ethnicity 33
region 95, Tables 4-2-4-4
trends 40, 139, 140, Tables 2-1-2-3, Tables 5-1-5-3, Figure 5-6
college enrollment 372, Tables 9-1-9-3, Figure 9-7
gender 149, 379, Figure 9-7
population density 162
region 156

## M

marijuana (hashish)
availability, perceived 36,296 , 297, Table 7-4
cohort effect 7-8, 10, 26, 138, 147, 240
daily use
college enrollment 357-360, 361, 371, 379, Table 8-4, Table 9-4, Figure 9-3b
gender 26, 93, 149, 360, 361, 379, Table 4-5,
Table 8-4, Figure 9-3b
population density 162, Table 4-5
prevalence 10, 35, 38, 86, Table 8-4, Figure 4-3
region Table 4-5
trends 135, 138, 147-148, 378, Table 2-4,
Table 5-4, Table 9-4, Figure 5-3c
disapproval 11, 236-237, Table 6-2
exposure to use (see also friends' use) 291, 293, Table 7-3, Figures 7-5-7-6
friends' disapproval, perceived 286, 287-288, Table 7-1
friends' use 293-294, Table 7-2
harmfulness, perceived 11, 37, 230-231, Table 6-1, Figures 6-1-6-3
prevalence 10, 22, 35, 84-86, Figure 4-3 college enrollment 25, 357-360, Tables 8-1-8-4 gender 26, 93, 360, Tables 4-1-4-5,

Tables 8-1-8-4
population density 96 , Tables 4-2-4-5
race/ethnicity 33,34
region 94, Tables 4-2-4-5
trends $135,136,137-138,140,378$, Tables 2-1-2-4,
Tables 5-1-5-5, Figures 5-3a-5-3c
college enrollment 367, 370-371, 379,
Tables 9-1-9-4, Figure 9-3a-9-3b
gender 149, 379, Figure 9-3a-9-3b
population density 161-162
region 155
MDMA (See ecstasy)
methamphetamine
cohort effect 15-16, 240
prevalence 35, 88, Figure 4-5
college enrollment 357-358, Tables 8-1-8-3
gender 26-27, Tables 4-1-4-4, Tables 8-1-8-3
population density 96 , Tables 4-2-4-4 region Tables 4-2-4-4
trends 143, Tables 2-1-2-3, Tables 5-1-5-3 college enrollment Tables 9-1-9-3 gender 152 population density 165 region 157
methaqualone
availability, perceived 22
prevalence 22, 165
trends 140, Tables 2-1-2-3, Tables 5-1-5-3
college enrollment Tables 9-1-9-3
population density 165

## N

narcotics other than heroin
availability, perceived 297, 299
harmfulness, perceived 231, 235, Table 6-1
cohort effect 20, 22
exposure to use (see also friends' use) 291, Figures 7-15-7-16
friends' use 292, 294
prevalence 20, 87, 89, Figure 4-15
college enrollment 358, 360, Tables 8-1-8-3
gender 93, 360, Table 4-1-4-2, Tables 8-1-8-3
population density Table 4-2
race/ethnicity 33
region Table 4-2
trends 20, 39, 136, 142, Tables 2-1-2-3,
Tables 5-1-5-3, Figure 5-12
college enrollment 26, 374, 379, Tables 9-1-9-3, Figure 9-11a
gender 150-151, 379, Figure 9-11a
population density 166
region 159
nitrites (See also inhalants)
availability, perceived Table 7-4
friends' use Table 7-2
prevalence 16
trends Tables 2-1-2-3, Tables 5-1-5-3

## 0 <br> OxyContin

prevalence 20-21, 23
college enrollment 357, 358, 360, Table 8-2
gender 26, 93, 360 Table 4-3, Table 8-2
population density Table 4-3
race/ethnicity 33
region Table 4-3
trends 20-21, 40, 142, Table 2-2, Table 5-2
college enrollment 374-375, Table 9-2,
Figure 9-11c
gender 157
population density 166
region 159

## P

PCP
availability, perceived Table 7-4
cohort effect 19
friends’ use Table 7-2
harmfulness, perceived Table 6-1, Figure 6-8
prevalence
gender Tables 4-1-4-4
population density Tables 4-2-4-4
region Tables 4-2-4-4
trends Tables 2-1-2-3, Tables 5-1-5-3
Percocet 20
powder cocaine (See cocaine powder)
Provigil
cohort effect 23
prevalence 90
trends Table 2-2, Table 5-2
psychedelics (See hallucinogens)

## Q

Quaaludes Table 7-2

## R

regular little cigars (See cigars)
Ritalin
cohort effect 15
prevalence 88
college enrollment 358 , 360, Table 8-2
gender 30, 360, Table 4-3, Table 8-2
population density Table 4-3
race/ethnicity 33
region Table 4-3
trends 135-136, Table 2-2, Table 5-2
college enrollment 372, Table 9-2
gender 151
Rohypnol
prevalence 23, 35
gender 27, 153
region 159
trends 40, Table 2-1-2-3, Table 5-2
college enrollment Table 9-2

S
salvia
harmfulness, perceived 232, Table 6-1
prevalence 23, 90
college enrollment 357, Table 8-2
gender 93, Table 4-3, Table 8-2
population density 96, Table 4-3
race/ethnicity 33
region Table 4-3
trends 23, 141, Table 2-2, Table 5-2
college enrollment 371, 377-378, Table 9-2
gender 26, 150
population density 163
region 156
sedatives (barbiturates)
availability, perceived 297, 300, Table 7-4
cohort effect 22, 240
disapproval 236, 238, Table 6-2
exposure to use (see also friends' use) Table 7-3,
Figures 7-19-7-20
friends’ use 291, 294, Table 7-2
harmfulness, perceived 231, Table 6-1, Figures 6-26-6-27
prevalence 21-22, 88, Figure 4-14
college enrollment Tables 8-1-8-3
gender Tables 4-1-4-4, Tables 8-1-8-3
population density 96 , Tables 4-2-4-4
race/ethnicity 33,34
region Tables 4-2-4-4
trends 39, 40, 142, 143, Tables 2-1-2-3,
Tables 5-1-5-3, Figure 5-15
college enrollment 26, 373, 374, 377,
Tables 9-1-9-3, Figure 9-13
gender 152, 380, Figure 9-13
population density 165
region 158
small cigars (See cigars)
smokeless tobacco
harmfulness, perceived 236, Table 6-1, Figure 6-33
prevalence 92
gender 35, 94, Table 4-1
population density
race/ethnicity 33
region 95, 97
trends 39, Tables 2-1-2-4
stay-awake pills 24-25
steroids
availability, perceived 297, 301, Table 7-4
friends’ use 291, Table 7-2
prevalence 35, 92, 144, Figure 4-18
college enrollment Tables 8-1-8-3
gender 24,93 , 94 , Tables 4-1-4-4, Tables 8-1-8-3
population density 96, Tables 4-2-4-4
region Tables 4-2-4-4
trends 144, Tables 2-1-2-3, Tables 5-1-5-3, Figure 5-17
college enrollment Tables 9-1-9-3
synthetic marijuana
harmfulness, perceived 231, Table 6-1, Figures 6-4-6-5
prevalence 11-12, 86, 357, Table 4-1
college enrollment Tables 8-2-8-3
gender 93, Table 4-1, Tables 8-2-8-3
population density 96
region 95
trends 40, 135, 138, Tables 2-2-2-3, Table 5-2
college enrollment 371, Tables 9-2-9-3, Figure 9-4
gender 149
population density 162
region 156

## T

tobacco (See cigarettes; smokeless tobacco)
tranquilizers
availability, perceived 297, 301, Table 7-4
cohort effect 21, 22
exposure to use (see also friends' use) Table 7-3, Figures 7-21-7-22
friends' use 291, 294, Table 7-2
prevalence 35, 87, 89, Figure 4-16
college enrollment Tables 8-1-8-3
gender Tables 4-1-4-4, Tables 8-1-8-3
population density 96, Tables 4-2-4-4
race/ethnicity 33, 34
region Tables 4-2-4-4
trends 21, 26, 39, 40, 136, 140, 144, Tables 2-1-2-3, Tables 5-1-5-3, Figure 5-16
college enrollment 373, 377-378,Tables 9-1-9-3, Figure 9-14
gender 152, 380
population density 166
race/ethnicity 33, 34
region 158

## V

Valium 21
Vicodin
cohort effect 20-21, 23
prevalence 23
college enrollment 357-358, Table 8-2
gender 26, 93, 360, Table 4-3, Table 8-2
population density Table 4-3
race/ethnicity 33
region Table 4-3
trends 136, 142, Table 2-2, Table 5-2
college enrollment 374-375, Table 9-2,
Figure 9-11b
gender 151
population density 166
region 159

## X

Xanax 21


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

Institute for Social Research
The University of Michigan


[^0]:    ${ }^{1}$ Johnston, L. D., O’Malley, P. M., Miech, R. A., Bachman, J. G., \& Schulenberg, J. E. (2015). Monitoring the Future national survey results on drug use: Overview, key findings on adolescent drug use, 2014. Ann Arbor, MI: Institute for Social Research, The University of Michigan, 90 pp. Available at http://monitoringthefuture.org/pubs/monographs/mtf-overview2014.pdf
    ${ }^{2}$ Miech, R.A., Johnston, L. D., O’Malley, P. M., Bachman, J. G., \& Schulenberg, J. E. (2015). Monitoring the Future national survey results on drug use, 1975-2014: Volume I, Secondary school students. Ann Arbor, MI: Institute for Social Research, The University of Michigan, 599 pp. Available at http://www.monitoringthefuture.org/pubs/monographs/mtf-vol1 2014.pdf
    ${ }^{3}$ Johnston, L. D., O’Malley, P. M., Bachman, J. G., Schulenberg, J. E., Patrick, M.E. \& Miech R. A. (2014). HIV/AIDS: Risk \& protective behaviors among American young adults, 2004-2012 Ann Arbor: Institute for Social Research, The University of Michigan, 112 pp. Available at http://www.monitoringthefuture.org/pubs/monographs/mtf-hiv-aids 2013.pdf

[^1]:    ${ }^{4}$ Please visit http://monitoringthefuture.org/pubs.html to access the full text of these monographs.

[^2]:    ${ }^{5}$ For a more complete listing and discussion of MTF’s objectives, see Johnston, L. D., O’Malley, P. M., Schulenberg, J. E., \& Bachman, J. G. (2006). The aims and objectives of the Monitoring the Future study and progress toward fulfilling them as of 2006 (Monitoring the Future Occasional Paper No. 65). Ann Arbor, MI: Institute for Social Research. Available online at http://www.monitoringthefuture.org/pubs/occpapers/occ65.pdf.

[^3]:    ${ }^{6}$ Bachman, J. G., O'Malley, P. M., Schulenberg, J. E., Johnston, L. D., Freedman-Doan, P., \& Messersmith, E. E. (2008). The education-drug use connection: How successes and failures in school relate to adolescent smoking, drinking, drug use, and delinquency. New York: Lawrence Erlbaum Associates/Taylor \& Francis.
    ${ }^{7}$ Bachman, J. G., O'Malley, P. M., Schulenberg, J. E., Johnston, L. D., Bryant, A. L., \& Merline, A. C. (2002). The decline of substance use in young adulthood: Changes in social activities, roles, and beliefs. Mahwah, NJ: Lawrence Erlbaum Associates.
    ${ }^{8}$ Bachman, J. G., Wadsworth, K. N., O'Malley, P. M., Johnston, L. D., \& Schulenberg, J. E. (1997). Smoking, drinking, and drug use in young adulthood: The impacts of new freedoms and new responsibilities. Mahwah, NJ: Lawrence Erlbaum Associates.

[^4]:    ${ }^{9}$ Johnston, L. D., O'Malley, P. M., Bachman, J. G., Schulenberg, J. E., Patrick, M. E., \& Miech, R. A. (2014). HIV/AIDS: Risk \& protective behaviors among American young adults, 2004-2013. Ann Arbor: Institute for Social Research, The University of Michigan, 112 pp. Available at http://www.monitoringthefuture.org/pubs/monographs/mtf-hiv-aids_2013.pdf

[^5]:    ${ }^{1}$ In 2011 the question on perceived risk was modified to include Adderall and Ritalin as examples, which seems to have lowered the level of perceived risk (pep pills and bennies were deleted from the list of examples that same year).
    ${ }^{2}$ As discussed in Appendix E, the absolute prevalence rates for Ritalin are probably higher than the statistics indicate, but the trend story is likely quite accurate. See Table 2-2 for more accurate estimates of the absolute annual prevalence rates in recent years; these estimates are based on a new question that does not require the respondent to indicate some amphetamine use before being branched to a question about Ritalin use.

[^6]:    ${ }^{3}$ Unless otherwise specified, all references to cocaine concern the use of cocaine in any form, including crack.

[^7]:    ${ }^{4}$ For a more extended discussion and documentation of this point, see Johnston, L.D. (2003). Alcohol and illicit drugs: The role of risk perceptions. In Dan Romer (Ed.), Reducing adolescent risk: Toward an integrated approach (pp. 56-74). Thousand Oaks, CA: Sage. Available at http://www.monitoringthefuture.org/pubs/chapters/ldj2003.pdf.

[^8]:    ${ }^{5}$ Bachman, J. G., Wadsworth, K. N., O’Malley, P. M., Johnston, L. D., \& Schulenberg, J. E. (1997). Smoking, drinking, and drug use in young adulthood: The impacts of new freedoms and new responsibilities. Mahwah, NJ: Lawrence Erlbaum Associates. See also Bachman, J. G., O’Malley, P. M., Schulenberg, J. E., Johnston, L. D., Bryant, A. L., \& Merline, A. C. (2002). The decline of substance use in young adulthood: Changes in social activities, roles, and beliefs. Mahwah, NJ: Lawrence Erlbaum Associates.

[^9]:    ${ }^{6}$ McCabe, S. E., Schulenberg, J. E., Johnston, L. D., O’Malley, P. M., Bachman, J. G., \& Kloska, D. D. (2005). Selection and socialization effects of fraternities and sororities on U.S. college student substance use: A multi-cohort national longitudinal study. Addiction, 100, 512-524.

[^10]:    ${ }^{7}$ For a recent analysis showing much higher smoking rates among 8th graders who later dropped out before completing high school, see Bachman, J. G., O’Malley, P. M., Schulenberg, J. E., Johnston, L. D., Freedman-Doan, P., \& Messersmith, E. E. (2008). The education-drug use connection: How successes and failures in school relate to adolescent smoking, drug use, and delinquency. New York: Lawrence Erlbaum Associates/Taylor \& Francis.

[^11]:    ${ }^{8}$ For a more detailed examination of changes in youth access to cigarettes, see Johnston, L. D., O’Malley, P. M., \& Terry-McElrath, Y. M. (2004). Methods, locations, and ease of cigarette access for American youth, 1997-2002. American Journal of Preventive Medicine, 27, $267-276$.

[^12]:    ${ }^{9}$ Bachman, J. G., Wadsworth, K. N., O’Malley, P. M., Johnston, L. D., \& Schulenberg, J. E. (1997). Smoking, drinking, and drug use in young adulthood: The impacts of new freedoms and new responsibilities. Mahwah, NJ: Lawrence Erlbaum Associates. Bachman, J. G., O’Malley, P. M., Schulenberg, J. E., Johnston, L. D., Bryant, A. L., \& Merline, A. C. (2002). The decline of substance use in young adulthood: Changes in social activities, roles, and beliefs. Mahwah, NJ: Lawrence Erlbaum Associates. Bachman, J. G., O’Malley, P. M., Schulenberg, J. E., Johnston, L. D., Freedman-Doan, P., \& Messersmith, E. E. (2008). The education-drug use connection: How successes and failures in school relate to adolescent smoking, drinking, drug use, and delinquency. New York: Lawrence Erlbaum Associates/Taylor \& Francis.
    ${ }^{10}$ We periodically publish comparisons that contain a number of the smaller racial/ethnic groups in the population, based on data combined for a number of contiguous years in order to attain adequate sample sizes. The first was Bachman, J. G., Wallace, J. M., Jr., O’Malley, P. M., Johnston, L. D., Kurth, C. L., \& Neighbors, H. W. (1991). Racial/ethnic differences in smoking, drinking, and illicit drug use among American high school seniors, 1976-1989. American Journal of Public Health, 81, 372-377. More recent articles are: Bachman, J. G., O‘Malley, P. M., Johnston, L. D., Schulenberg, J. E., \& Wallace, J. M., Jr. (2011). Racial/ethnic differences in the relationship between parental education and substance use among U.S. 8th-, $10^{\text {th }}$-, and 12th-grade students: Findings from the Monitoring the Future Project. Journal of Studies on Alcohol and Drugs, 72(2), 279285. doi: 10.1037/a0031464; Wallace, J. M., Jr., Bachman J. G., O’Malley, P. M., Johnston, L. D., Schulenberg, J. E., \& Cooper, S. M. (2002). Tobacco, alcohol and illicit drug use: Racial and ethnic differences among U.S. high school seniors, 1976-2000. Public Health Reports, 117 (Supplement 1), S67-S75; Wallace, J. M., Jr., Bachman, J. G., O’Malley, P. M., Schulenberg, J. E., Cooper, S. M., \& Johnston, L. D. (2003).

[^13]:    Gender and ethnic differences in smoking, drinking, and illicit drug use among American 8th, 10 ${ }^{\text {th }}$, and 12th grade students, 1976-2000. Addictions, 98, 225-234; and Delva, J., Wallace, J. M., Jr., O’Malley, P. M., Bachman, J. G., Johnston, L. D., \& Schulenberg, J. E. (2005). The epidemiology of alcohol, marijuana, and cocaine use among Mexican American, Puerto Rican, Cuban American, and other Latin American 8th-grade students in the United States: 1991-2002. American Journal of Public Health, 95, 696-702. See also Bachman, J. G., O’Malley, P. M., Johnston, L. D., \& Schulenberg, J. E. (2010). Impacts of parental education on substance use: Differences among White, African-American, and Hispanic students in 8 th, $10^{\text {th }}$, and 12 th grades (1999-2008) (Monitoring the Future Occasional Paper No. 70). Ann Arbor, MI: Institute for Social Research. Available at http://www.monitoringthefuture.org/pubs/occpapers/occ70.pdf.
    ${ }^{11}$ Johnston, L. D., O'Malley, P. M., Miech, R. A., Bachman, J. G., \& Schulenberg, J. E. (2015). Demographic subgroup trends among young adults in the use of various licit and illicit drugs 1975-2014 (Monitoring the Future Occasional Paper No. 83). Ann Arbor, MI: Institute for Social Research, University of Michigan. Available at http://monitoringthefuture.org/pubs/occpapers/mtf-occ83.pdf

[^14]:    ${ }^{12}$ Merline, A.C., O’Malley, P.M., Schulenberg, J.E., Bachman, J.G., \& Johnston, L.D. (2004). Substance use among adults 35 years of age: Prevalence, adulthood predictors, and impact of adolescent substance use. American Journal of Public Health, 94, 96-102.
    ${ }^{13}$ Zucker, R. A. (2006). Alcohol use and the alcohol use disorders: A developmental-biopsychosocial systems formulation covering the lifecourse. In D. Cicchetti \& D. J. Cohen (Eds.), Developmental psychopathology:Vol. 3. Risk, disorder, and adaptation (2nd ed., pp. 620-656). Hoboken, NJ: Wiley.
    ${ }^{14}$ Office of the Surgeon General. (2007). The Surgeon General's call to action to prevent and reduce underage drinking. Rockville, MD: Department of Health and Human Services.

[^15]:    ${ }^{15}$ Johnston, L. D. (2002, June 19). Written and oral testimony presented at hearings on the National Youth Anti-Drug Media Campaign, held by the Treasury and General Government Subcommittee on Appropriations of the U.S. Senate Appropriations Committee. Published in The Congressional Record.
    ${ }^{16}$ Johnston, LD (1991). Toward a theory of drug epidemics. In L Donhew, HE Sypher, and WJ Bukiski (Eds.), Persuasive communication and drug abuse prevention (pp.93-131). Hillsdale, NJ, Earlbaum. Available at www.monitoringthefuture.org/pubs/chapters/ldj1991theory.pdf

[^16]:    ${ }^{17}$ A published report from an international collaborative study, modeled largely after MTF, provides comparative data from national school surveys of 15 - to 16 -year-olds that was completed in 2011 in 36 European countries. It also includes 2011 MTF data from $10^{\text {th }}$ graders in the United States. See Hibell, B., Guttormsson, U, Ahlström, S., Balakireva, O., Bjarnasson, T., Kokkevi, A., \& Kraus, L. (Eds.). (2012). The 2011 ESPAD report Substance Use among Students in 36 European countries. Stockholm: The Swedish Council for Information on Alcohol and Other Drugs, The European Monitoring Centre for Drugs and Drug Addiction, the Council of Europe Co-operation Group to Combat Drug Abuse and Illicit Trafficking in Drugs (the Pompidou Group). See also, Johnston, L. et al., American teens are less likely than European teens to use cigarettes and alcohol, but more likely to use illicit drugs. National press release from the University of Michigan's News and Information Services, June 1, 2012. Available at http://www.ns.umich.edu/new/releases/20420-american-teens-are-less-likely-than-european-teens-to-use-cigarettes-and-alcohol-but-more-likely-to-use-illicit-drugs.

[^17]:    (Table continued on next page.)

[^18]:    Source. The Monitoring the Future study, the University of Michigan.

[^19]:    ${ }^{1}$ Bachman, J. G., Johnston, L. D., O'Malley, P. M., \& Schulenberg, J. E. (2011). The Monitoring the Future project after thirty-seven years: Design and procedures (Monitoring the Future Occasional Paper No. 76). Ann Arbor, MI: Institute for Social Research, 93pp. Retrieved from http://monitoringthefuture.org/pubs/occpapers/mtf-occ76.pdf
    ${ }^{2}$ For a more detailed description of the full range of research objectives of Monitoring the Future, see Johnston, L. D., O’Malley, P. M., Schulenberg, J. E., \& Bachman, J. G. (2006). The aims and objectives of the Monitoring the Future study and progress toward fulfilling them as of 2006 (Monitoring the Future Occasional Paper No. 65). Ann Arbor, MI: Institute for Social Research. Available online at http://www.monitoringthefuture.org/pubs/occpapers/occ65.pdf.

[^20]:    ${ }^{3}$ U.S. Census Bureau (various years). Current population reports, Series P-20, [various numbers]. Washington, DC: U.S. Government Printing Office. Available at http://www.census.gov/cps/data/cpstablecreator.html.
    ${ }^{4}$ Miech, R. A., Johnston, L. D., O'Malley, P. M., Bachman, J. G., \& Schulenberg, J. E. (2015). Monitoring the Future national survey results on drug use, 1975-2014: Volume I, Secondary school students. Ann Arbor: Institute for Social Research, The University of Michigan, 599 pp.

[^21]:    ${ }^{5}$ A book reporting results from analyses of these younger panels was published in 2008. See Bachman, J. G., O’Malley, P. M., Schulenberg, J. E., Johnston, L. D., Freedman-Doan, P., \& Messersmith, E. E. (2008). The education-drug use connection: How successes and failures in school relate to adolescent smoking, drinking, drug use, and delinquency. New York: Lawrence Erlbaum Associates/Taylor \& Francis.
    ${ }^{6}$ We have examined in detail the effects of administration mode using multivariable controls to assess the effects of the change on $8^{\text {th }}$-grade selfreport data. Our findings generally show even less effect than is to be found without such controls. See O’Malley, P. M., Johnston, L. D., Bachman, J. G., \& Schulenberg, J. E. (2000). A comparison of confidential versus anonymous survey procedures: Effects on reporting of drug use and related attitudes and beliefs in a national study of students. Journal of Drug Issues, 30, 35-54.

[^22]:    ${ }^{7}$ Until 1991, the follow-up checks were for $\$ 5$. After an experiment indicated that an increase was warranted, the check amount was raised to $\$ 10$ beginning with the class of 1992 . The check amount was raised to $\$ 20$ in 2006 and to $\$ 25$ beginning in 2008.

[^23]:    ${ }^{8}$ O’Malley, P. M., Johnston, L. D., Bachman, J. G., Schulenberg, J. E., \& Kumar, R. (2006). How substance use differs among American secondary schools. Prevention Science, 7, 409-420. doi:10.1007/s11121-006-0050-5

[^24]:    ${ }^{9}$ See Appendix A in the following publication for a discussion of this point: Johnston, L. D., O’Malley, P. M., \& Bachman, J. G. (1984). Drugs and American high school students: 1975-1983 (DHHS (ADM) 85-1374). Washington, DC: U.S. Government Printing Office.
    ${ }^{10}$ McGuigan, K. A., Ellickson, P. L., Hays, R. D., \& Bell, R. M. (1997). Adjusting for attrition in school-based samples: Bias, precision, and cost trade-off of three methods. Evaluation Review, 21, 554-567.

[^25]:    ${ }^{11}$ Kim, J., Gershenson, C., Glaser, P., \& Smith, T.W. (2011). The polls-trends: Trends in surveys on surveys. Public Opinion Quarterly, 75(1), 165-191; Groves, R.M. (2006). Nonresponse rates and nonresponse bias in household surveys. Public Opinion Quarterly, 70(5), 646-675.
    ${ }^{12}$ Wechsler, H., Lee, J. E., Kuo, M., Seibring, M., Nelson, T. F., \& Lee, H. (2002). Trends in college binge drinking during a period of increased prevention efforts: Findings from 4 Harvard School of Public Health College Alcohol Study surveys: 1993-2001. Journal of American College Health, 50, 203-217.

[^26]:    ${ }^{13}$ Cordray, S., \& Polk, K. (1983). The implication of respondent loss in panel studies of deviant behavior. Journal of Research in Crime and Delinquency, 20, 214-242.
    ${ }^{14}$ Bryant, A. L., Schulenberg, J. E., Bachman, J. G., O’Malley, P. M., \& Johnston, L. D. (2000). Understanding the links among school misbehavior, academic achievement, and cigarette use: A national panel study of adolescents. Prevention Science, 1(2), 71-87; Schulenberg, J. E., Bachman, J. G., O’Malley, P. M., \& Johnston, L. D. (1994). High school educational success and subsequent substance use: A panel analysis following adolescents into young adulthood. Journal of Health and Social Behavior, 35, 45-62; Schulenberg, J. E., Bryant, A. L., \& O’Malley, P. M. (2004). Taking hold of some kind of life: How developmental tasks relate to trajectories of well-being during the transition to adulthood. Development and Psychopathology, 16, 1119-1140.
    ${ }^{15}$ Bachman, J. G., O’Malley, P. M., \& Johnston, J. (1978). Youth in Transition: Vol. 6. Adolescence to adulthood: A study of change and stability in the lives of young men. Ann Arbor, MI: Institute for Social Research.
    ${ }^{16}$ A more complete discussion may be found in: Johnston, L. D., \& O’Malley, P. M. (1985). Issues of validity and population coverage in student surveys of drug use. In B. A. Rouse, N. J. Kozel, \& L. G. Richards (Eds.), Self-report methods of estimating drug use: Meeting current challenges to validity (NIDA Research Monograph No. 57 (ADM) 85-1402). Washington, DC: U.S. Government Printing Office.

    17 Johnston, L. D., O’Malley, P. M., \& Bachman, J. G. (1984). Drugs and American high school students: 1975-1983 (DHHS (ADM) 85-1374). Washington, DC: U.S. Government Printing Office.

[^27]:    ${ }^{18}$ Wallace, J. M., Jr., \& Bachman, J. G. (1993). Validity of self-reports in student-based studies on minority populations: Issues and concerns. In M. de LaRosa (Ed.), Drug abuse among minority youth: Advances in research and methodology (NIDA Research Monograph No. 130). Rockville, MD: National Institute on Drug Abuse.
    ${ }^{19}$ O’Malley, P. M., Bachman, J. G., \& Johnston, L. D. (1983). Reliability and consistency in self-reports of drug use. International Journal of the Addictions, 18, 805-824.
    ${ }^{20}$ Johnston, L. D., \& O’Malley, P. M. (1997). The recanting of earlier reported drug use by young adults. In L. Harrison (Ed.), The validity of self-reported drug use: Improving the accuracy of survey estimates (NIDA Research Monograph No. 167, pp. 59-80). Rockville, MD: National Institute on Drug Abuse.
    ${ }^{21}$ For a discussion of reliability and validity of student self-report measures of drug use like those used in MTF across varied cultural settings, see Johnston, L. D., Driessen, F. M. H. M., \& Kokkevi, A. (1994). Surveying student drug misuse: A six-country pilot study. Strasbourg, France: Council of Europe. Available at http://monitoringthefuture.org/pubs/monographs/surveying_student_drug_misuse_1994.pdf

[^28]:    Source. The Monitoring the Future study, the University of Michigan.

[^29]:    ${ }^{1}$ High school seniors have a modal age (the most common age) of 18 ; therefore in a follow-up conducted 12 years later they would have a modal age of 30 .
    ${ }^{2}$ Bachman, J. G., Wadsworth, K. N., O’Malley, P. M., Johnston, L. D., \& Schulenberg, J. E. (1997). Smoking, drinking, and drug use in young adulthood: The impacts of new freedoms and new responsibilities. Mahwah, NJ: Lawrence Erlbaum Associates.
    ${ }^{3}$ Bachman, J. G., O’Malley, P. M., Schulenberg, J. E., Johnston, L. D., Freedman-Doan, P., \& Messersmith, E. E. (2008). The education-drug use connection: How successes and failures in school relate to adolescent smoking, drug use, and delinquency. New York: Lawrence Erlbaum Associates/Taylor \& Francis.

[^30]:    ${ }^{4}$ Through 2001, the follow-ups also included modal ages 31 and 32. This seventh follow-up was dropped in 2002 because we believed that the costs were no longer justified by the marginal benefits of having these follow-up data, given that an age- 35 survey was being conducted. Throughout the time between surveys, we send annual newsletters to respondents in order to help maintain contact.

[^31]:    ${ }^{5}$ O’Malley, P. M., Bachman, J. G., \& Johnston, L. D. (1983). Reliability and consistency in self-reports of drug use. International Journal of the Addictions, 18, 805-824.

[^32]:    ${ }^{6}$ For a more detailed analysis and discussion, see Johnston, L. D., \& O’Malley, P. M. (1997). The recanting of earlier-reported drug use by young adults. In L. Harrison \& A. Hughes (Eds.), The validity of self-reported drug use: Improving the accuracy of survey estimates (NIDA Research Monograph No. 97-4147). Washington, DC: National Institute on Drug Abuse. Available at
    http://archives.drugabuse.gov/pdf/monographs/monograph167/059-080_Johnston.pdf
    ${ }^{7}$ This section discusses differences in the current year as a function of age, but it should be noted that these age differences are confounded with cohort differences. Thus, although the discussion is accurate with respect to age differences, it is not necessarily the case that the age differences would be similar in other time periods. In fact, our recent evidence, including many findings provided in Chapter 5, suggests both similarities and differences by age across cohorts. See also Jager, J., Schulenberg, J. E., O'Malley, P. M., \& Bachman, J. G. (2013). Historical variation in drug use trajectories across the transition to adulthood: The trend toward lower intercepts and steeper, ascending slopes. Development and Psychopathology, 25(2), 527-543.doi:10.1017/S0954579412001228.

[^33]:    ${ }^{8}$ Bachman, J. G., Wadsworth, K. N., O’Malley, P. M., Johnston, L. D., \& Schulenberg, J. E. (1997). Smoking, drinking, and drug use in young adulthood: The impacts of new freedoms and new responsibilities. Mahwah, NJ: Lawrence Erlbaum Associates; and Bachman, J. G., O’Malley, P. M., Schulenberg, J. E., Johnston, L. D., Bryant, A. L., \& Merline, A. C. (2002). The decline of substance use in young adulthood: Changes in social activities, roles, and beliefs. Mahwah, NJ: Lawrence Erlbaum Associates. See also Schulenberg, J. E., O’Malley, P. M., Bachman, J. G., \& Johnston, L. D. (2000). "Spread your wings and fly": The course of well-being and substance use during the transition to young adulthood. In L. J. Crockett \& R. K. Silbereisen (Eds.), Negotiating adolescence in times of social change (pp. 224-255). New York: Cambridge University Press. And see O’Malley, P. M., Bachman, J. G., Johnston, L. D., \& Schulenberg, J. E. (2004). Studying the transition from youth to adulthood: Impacts on substance use and abuse. In J. S. House, F. T. Juster, R. L. Kahn, H. Schuman, \& E. Singer (Eds.), A telescope on society: Survey research and social science at the University of Michigan and beyond (pp. 305-329). Ann Arbor, MI: The University of Michigan Press.

[^34]:    ${ }^{9}$ American Association of Poison Control Centers, Synthetic marijuana data updated April 16, 2012. http://www.aapcc.org/alerts/syntheticmarijuana/.

[^35]:    ${ }^{10}$ Barbiturates were the dominant form of sedatives in use when these questions were first introduced. In the intervening years, a number of nonbarbiturate sedatives have entered the market and largely displaced barbiturates. We believe that a number of users of non-barbiturate sedatives are reporting them in answer to this question, which also defines them in terms of the conditions for which they are prescribed. In recognition of this fact, we now label them as "sedatives (barbiturates)." The rewording of the question was made in half of the questionnaire forms in 2004 and in the other half in 2005.

[^36]:    ${ }^{11}$ O’Malley, P. M., Bachman, J. G., \& Johnston, L. D. (1988). Period, age, and cohort effects on substance use among young Americans: A decade of change, 1976-1986. American Journal of Public Health, 78, 1315-1321. See also Bachman, J. G., Wadsworth, K. N., O’Malley, P. M., Johnston, L. D., \& Schulenberg, J. E. (1997). Smoking, drinking, and drug use in young adulthood: The impacts of new freedoms and new responsibilities. Mahwah, NJ: Lawrence Erlbaum Associates.
    ${ }^{12}$ Because these two measures have been included in only one of the six questionnaire forms used with young adults, the numbers of cases are very limited, less than 200 weighted cases per year for each two-year age band from 19 to 30 . Therefore, we have combined young adult data from years 2005 through 2014 in order to generate more reliable estimates of these behaviors. The weighted combined sample of 18-30 year-olds for 2005 through 2014 has 9.244 observations, with some individuals contributing more than one observation because of their continued participation in the panel study.
    ${ }^{13}$ Because age is confounded with class cohort, and because we have established that cigarette smoking shows strong cohort effects (enduring differences among cohorts), one must be careful in interpreting age-related differences in a cross-sectional sample as if they were due only to age effects-that is, changes with age consistently observable across cohorts. However, multivariate analyses conducted on MTF panel data from multiple cohorts do show a consistent age effect of the type mentioned here (see O'Malley, Bachman, \& Johnston, 1988, in previous footnote).

[^37]:    ${ }^{14}$ States are grouped into regions as follows: Northeast—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, and Pennsylvania; Midwest-Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas; South—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, Oklahoma, and Texas; West-Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Washington, Oregon, and California.

[^38]:    Source. The Monitoring the Future study, the University of Michigan.
    Notes. ' $\quad$ ' indicates a prevalence rate of less than 0.05\%.
    ${ }^{\text {a }}$ Use of any illicit drug includes any use of marijuana, hallucinogens, cocaine, heroin or other narcotics, amphetamines,
    sedatives (barbiturates), or tranquilizers not under a doctor's orders.
    ${ }^{\mathrm{b}}$ Daily use is defined as use on 20 or more occasions in the past 30 days except for cigarettes, measured as actual daily use, and $5+$ drinks, measured as having five or more drinks in a row in the last two weeks.
    ${ }^{\text {c }}$ This drug was asked about in three of the six questionnaire forms. Total $N$ is approximately 2,500 .
    ${ }^{\mathrm{d}}$ This drug was asked about in one of the six questionnaire forms. Total $N$ is approximately 800.
    ${ }^{e}$ This drug was asked about in five of the six questionnaire forms. Total $N$ is approximately 4,200.
    'This drug was asked about in four of the six questionnaire forms. Total $N$ is approximately 3,400 .
    ${ }^{9}$ This drug was asked about in two of the six questionnaire forms. Total $N$ is approximately 1,700 .
    ${ }^{\text {h }}$ Only drug use that was not under a doctor's orders is included here.
    'Based on data from the revised question, which attempts to exclude the inappropriate reporting of nonprescription amphetamines.
    jErratum corrected on Nov. 10th, 2015. These are the correct values, rather than the $21.1 \%, 6.4 \%$, and $12.2 \%$ previously contained here.
    ${ }^{k}$ Erratum corrected on Nov. 10th, 2015. These are the correct values, rather than the $8.6 \%, 1.6 \%$, and $4.4 \%$ previously contained here.

[^39]:    ${ }^{1}$ Strictly speaking, these two-year strata are not age strata, because they are based on all respondents in the given year from two adjacent high school classes, and they do not take into account the minor differences in individual respondents' ages within each graduating class; however, they are close approximations to age strata, and we characterize them by the modal age of the respondents as ages 19 to 20 , 21 to 22 , and so on.
    ${ }^{2}$ For the 2014 data, the 19- to 20-year-old stratum is composed of participating respondents from the high school graduating classes of 2013 and 2012, respectively; the 21- to 22-year-old stratum contains data from the classes of 2011 and 2010, respectively; and so on.
    ${ }^{3}$ In 2014, the 35 -year-olds are graduates from the high school class of 1996 (weighted $N=788$ ), the 40 -year-olds from the high school class of 1992 (weighted $N=902$ ), the 45 -year-olds from the high school class of 1987 (weighted $N=813$ ), the 50 -year-olds are graduates from the high school class of 1982 (weighted $N=877$ ), and the 55 -year-olds are graduates from the high school class of 1977 (weighted $N=914$ ). The unweighted actual $N$ s are somewhat higher.

[^40]:    ${ }^{4}$ Centers for Disease Control and Prevention (July, 2013). Prescription painkiller overdoses: A growing epidemic, especially among women. CDC Vitalsigns. Accessed on July 2, 2015, at www.cdc.gov/vitlsigns/PrescriptionPainkillerOverdoses/index.html

[^41]:    ${ }^{5}$ O’Malley, P. M., \& Wagenaar, A. C. (1991). Effects of minimum drinking age laws on alcohol use, related behaviors, and traffic crash involvement among American youth: 1976-1987. Journal of Studies on Alcohol, 52, 478-491.

[^42]:    ${ }^{6}$ Manttari, M., Tenkanen, L., Alikoski, T., \& Manninen, V. (1997). Alcohol and coronary heart disease: The roles of HDL-cholesterol and smoking. Journal of Internal Medicine, 241, 157-63.
    ${ }^{7}$ Savolainen, M. J., \& Kesaniemi, Y. A. (1995). Effects of alcohol on lipoproteins in relation to coronary heart disease. Current Opinions in Lipidology, 6, 243-50
    ${ }^{8}$ Keyes, K., \& Miech, R. (2013). Commentary on Dawson et al. (2013): Drink to Your Health? Maybe Not. Addiction, 108(4), 723-724.
    ${ }^{9}$ O’Malley, P. M., Bachman, J. G., \& Johnston, L. D. (1988). Period, age, and cohort effects on substance use among young Americans: A decade of change, 1976-1986. American Journal of Public Health, 78, 1315-1321.
    ${ }^{10}$ To illustrate, in the graduating class cohort of 1976 , $39 \%$ were 30 -day smokers in senior year, $39 \%$ by ages 19 to 20, but only $28 \%$ by ages 31 to 32-a net drop of 11 percentage points over the entire interval. By way of contrast, $19 \%$ of that class was half-pack-a-day smokers in senior year, $24 \%$ by ages 19 to 20 , and $21 \%$ at ages 31 to 32 -a net gain of five percentage points and two percentage points over the respective intervals.
    ${ }^{11}$ Bachman, J. G., Wadsworth, K. N., O'Malley, P. M., Johnston, L. D., \& Schulenberg, J. E. (1997). Smoking, drinking, and drug use in young adulthood: The impacts of new freedoms and new responsibilities. Mahwah, NJ: Lawrence Erlbaum Associates.

[^43]:    ${ }^{12}$ Bachman, J. G., O'Malley, P. M., Schulenberg, J. E., Johnston, L. D., Bryant, A. L., \& Merline, A. C. (2002). The decline of substance use in young adulthood: Changes in social activities, roles, and beliefs. Mahwah, NJ: Lawrence Erlbaum Associates
    ${ }^{13}$ Huang, J., \& Chaloupka, F. J. (2012) The impact of the 2009 federal tobacco excise tax increase on youth tobacco use. NBER Working Paper 18026. National Bureau of Economic Research, Cambridge, MA.
    ${ }^{14}$ O’Malley, P. M., Bachman, J. G., \& Johnston, L. D. (1988). Period, age, and cohort effects on substance use among young Americans: A decade of change, 1976-1986. American Journal of Public Health, 78, 1315-1321.

[^44]:    ${ }^{15}$ Bachman, J. G., Wadsworth, K. N., O'Malley, P. M., Johnston, L. D., \& Schulenberg, J. E. (1997). Smoking, drinking, and drug use in young adulthood: The impacts of new freedoms and new responsibilities. Mahwah, NJ: Lawrence Erlbaum Associates.
    ${ }^{16}$ Bachman, J. G., O'Malley, P. M., Schulenberg, J. E., Johnston, L. D., Bryant, A. L., \& Merline, A. C. (2002). The decline of substance use in young adulthood: Changes in social activities, roles, and beliefs. Mahwah, NJ: Lawrence Erlbaum Associates.

[^45]:    (List of drugs continued.)

[^46]:    Source. The Monitoring the Future study, the University of Michigan.
    Notes. ' - ' indicates data not available.

[^47]:    Source. The Monitoring the Future study, the University of Michigan.

[^48]:    Source. The Monitoring the Future study, the University of Michigan.
    Notes. ' - ' indicates data not available.

[^49]:    Source. The Monitoring the Future study, the University of Michigan.
    Notes. ' - ' indicates data not available.

[^50]:    Source. The Monitoring the Future study, the University of Michigan.
    Notes. ' - ' indicates data not available.
    ${ }^{\text {a }}$ Beginning in 2002, respondents were followed through age 30 instead of age 32 as in past years.

[^51]:    Source. The Monitoring the Future study, the University of Michigan.

[^52]:    Source. The Monitoring the Future study, the University of Michigan.

[^53]:    Source. The Monitoring the Future study, the University of Michigan.
    Notes. ' *' indicates a percentage of less than 0.05\%. ' - ' indicates data not available.

[^54]:    Source. The Monitoring the Future study, the University of Michigan.

[^55]:    Source. The Monitoring the Future study, the University of Michigan.

[^56]:    Source. The Monitoring the Future study, the University of Michigan.

[^57]:    Source. The Monitoring the Future study, the University of Michigan.
    Notes. ' - ' indicates data not available.

[^58]:    Source. The Monitoring the Future study, the University of Michigan.
    Notes. ' - ' indicates data not available.

[^59]:    Source. The Monitoring the Future study, the University of Michigan.

[^60]:    Source. The Monitoring the Future study, the University of Michigan.
    Notes. ' - ' indicates data not available.

[^61]:    Source. The Monitoring the Future study, the University of Michigan.

[^62]:    Source. The Monitoring the Future study, the University of Michigan.

[^63]:    Source. The Monitoring the Future study, the University of Michigan.

[^64]:    

[^65]:    ${ }^{1}$ See also: Bachman, J. G., Johnston, L. D., O’Malley, P. M., \& Humphrey, R. H. (1988). Explaining the recent decline in marijuana use: Differentiating the effects of perceived risks, disapproval, and general lifestyle factors. Journal of Health and Social Behavior, 29, 92-112; Bachman, J. G., Johnston, L. D., \& O’Malley, P. M. (1990). Explaining the recent decline in cocaine use among young adults: Further evidence that perceived risks and disapproval lead to reduced drug use. Journal of Health and Social Behavior, 31, 173-184; Bachman, J. G., Johnston, L. D., \& O'Malley, P. M. (1998). Explaining recent increases in students' marijuana use: Impacts of perceived risks and disapproval, 1976 through 1996. American Journal of Public Health, 88, 887-892; Johnston, L. D. (1981). Characteristics of the daily marijuana user. In R. de Silva, R. L. DuPont, \& G. K. Russell (Eds.), Treating the marijuana-dependent person (pp. 12-15). New York: The American Council on Marijuana; Johnston, L. D. (1985). The etiology and prevention of substance use: What can we learn from recent historical changes? In C. L. Jones \& R. J. Battjes (Eds.), Etiology of drug abuse: Implications for prevention (NIDA Research Monograph No. 56, DHHS Publication No. ADM 85 1335, pp. 155-177). Rockville, MD: National Institute on Drug Abuse. Keyes, K.M., Schulenberg, J.E., O’Malley, P.M., Johnston, L.D., Bachman, J.G., Li, G., \& Hasin, D. (2011). The social norms of birth cohorts and adolescent marijuana use in the United States, 1976-2007. Addiction, 106(10), 1790-1800. doi: 10.1111/j.1360-0443.2011.03485.x

[^66]:    ${ }^{2}$ See O’Malley, P. M., \& Johnston, L. D. (1999). Drinking and driving among U.S. high school seniors: 1984-1997. American Journal of Public Health, 89, 678-684; O’Malley, P. M., \& Johnston, L. D. (2003). Unsafe driving by high school seniors: National trends from 1976 to 2001 in tickets and accidents after use of alcohol, marijuana and other illegal drugs. Journal of Studies on Alcohol, 64, 305-312; and O‘Malley, P. M., \& Johnston, L. D. (2013). Driving after drug use or alcohol use by American high school seniors, 2001-2011. American Journal of Public Health, 103(11), 2027-2034. doi:10.2105/AJPH.2013.301246

[^67]:    ${ }^{3}$ Johnston, L. D. (1991). Toward a theory of drug epidemics. In L. Donohew, H. E. Sypher, \& W. J. Bukoski (Eds.), Persuasive communication and drug abuse prevention (pp. 93-131). Hillsdale, NJ: Lawrence Erlbaum. Available at
    http://monitoringthefuture.org/pubs/chapters/ldj1991theory.pdf..

[^68]:    Source. The Monitoring the Future study, the University of Michigan

[^69]:    (Table continued on next page.)

[^70]:    (List of drugs continued.)

[^71]:    Source. The Monitoring the Future study, the University of Michigan.

[^72]:    ${ }^{1}$ Bachman, J. G., Freedman-Doan, P., O’Malley, P. M., Johnston, L. D., \& Segal, D. R. (1999). Changing patterns of drug use among U.S. military recruits before and after enlistment. American Journal of Public Health, 89, 672-677. doi:10.2105/AJPH.89.5.672

[^73]:    ${ }^{2}$ The question reads, "How do you think your close friends feel (or would feel) about you... [smoking marijuana once or twice]?" The answer categories are "don’t disapprove," "disapprove," and "strongly disapprove." Percentages discussed are for the last two categories combined.

[^74]:    ${ }^{3}$ Keyes, K. M., Schulenberg, J. E., O’Malley, P. M., Johnston, L. D., Bachman, J. G., Li, G., \& Hasin, D. (2011). The social norms of birth cohorts and adolescent marijuana use in the United States, 1976-2007. Addiction, 106(10), 1790-1800. doi: 10.1111/j.1360-0443.2011.03485.x

[^75]:    Source. The Monitoring the Future study, the University of Michigan.
    Notes. Level of significance of difference between the two most recent years: $s=.05, s s=.01$, $s s s=.001$. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. ' - ' indicates data not available.
    ${ }^{\text {a }}$ Answer alternatives were: (1) Don't disapprove, (2) Disapprove, and (3) Strongly disapprove. Percentages are shown for categories (2) and (3) combined
    ${ }^{\mathrm{b}}$ These questions were dropped from the questionnaires beginning in 2010.

[^76]:    (List of drugs continued.)

[^77]:    ${ }^{1}$ U.S. Census Bureau (various years). Current population reports, Series P-20, [various numbers]. Washington, DC: U.S. Government Printing Office. Available at http://www.census.gov/cps/data/cpstablecreator.html.

[^78]:    ${ }^{2}$ See also Bachman, J. G., Wadsworth, K. N., O’Malley, P. M., Johnston, L. D., \& Schulenberg, J. E. (1997). Smoking, drinking, and drug use in young adulthood: The impacts of new freedoms and new responsibilities. Mahwah, NJ: Lawrence Erlbaum Associates.
    ${ }^{3}$ For an analysis showing much higher smoking rates among $8^{\text {th }}$ graders who later dropped out before completing high school, see Bachman, J. G., O’Malley, P. M., Schulenberg, J. E., Johnston, L. D., Freedman-Doan, P., \& Messersmith, E. E. (2008). The education-drug use connection: How successes and failures in school relate to adolescent smoking, drug use, and delinquency. New York: Lawrence Erlbaum Associates/Taylor \& Francis.

[^79]:    Source. The Monitoring the Future study, the University of Michigan.
    Notes. ' A ' indicates a prevalence rate of less than 0.05\%.
    ' - ' indicates data not available.
    See footnotes following Table 8-4.

[^80]:    Source. The Monitoring the Future study, the University of Michigan.
    Notes. $\quad$ ' *' indicates a prevalence rate of less than $0.05 \%$.
    See footnotes following Table 8-4.

[^81]:    ${ }^{1}$ Panel analyses of samples from the high school classes of 1995-1997, followed for an eight-year period beginning when they were in 8th grade, clearly show that those who dropped out of high school had distinctly higher rates of substance use both before and after they left school. See Bachman, J. G., O’Malley, P. M., Schulenberg, J. E., Johnston, L. D., Freedman-Doan, P., \& Messersmith, E. E. (2008). The education-drug use connection: How successes and failures in school relate to adolescent smoking, drinking, drug use, and delinquency. New York: Lawrence Erlbaum Associates/Taylor \& Francis.
    ${ }^{2}$ Miech, R. A., Johnston, L. D., O'Malley, P. M., Bachman, J. G., \& Schulenberg, J. E. (2015). Monitoring the Future national survey results on drug use, 1975-2014: Volume I, Secondary school students. Ann Arbor: Institute for Social Research, The University of Michigan, 599 pp. Available at http://monitoringthefuture.org/pubs/monographs/mtf-vol1_2014.pdf
    ${ }^{3}$ Johnston, L. D., O'Malley, P. M., Miech, R. A., Bachman, J. G., \& Schulenberg, J. E. (2015). Demographic subgroup trends among adolescents in the use of various licit and illicit drugs 1975-2014 (Monitoring the Future Occasional Paper No. 83). Ann Arbor, MI: Institute for Social Research, University of Michigan, 530 pp . Available at http://monitoringthefuture.org/pubs/occpapers/mtf-occ83.pdf

[^82]:    ${ }^{4}$ As discussed in Chapters 4 and 5, because the questions about narcotics other than heroin were changed in 2002, the prevalence figures are adjusted estimates. See the earlier discussion for details.

[^83]:    ${ }^{5}$ Schulenberg, J. E., \& Maggs, J. L. (2002). A developmental perspective on alcohol use and heavy drinking during adolescence and the transition to young adulthood. Journal of Studies on Alcohol, Supplement 14, 54-70.

[^84]:    ${ }^{6}$ Johnston, L. D., O’Malley, P. M., Bachman, J. G., \& Schulenberg, J. E. (1999). Cigarette brand preferences among adolescents (Monitoring the Future Occasional Paper No. 45). Ann Arbor, MI: Institute for Social Research. Available at: http://www.monitoringthefuture.org/pubs/occpapers/occ45.pdf.

[^85]:    Source. The Monitoring the Future study, the University of Michigan.
    Note. Others refers to high school graduates one to four years beyond high school not currently enrolled full-time in college.

