

# **monitoring the future occasional paper series**

**Paper 81**

***DEMOGRAPHIC SUBGROUP TRENDS AMONG ADOLESCENTS  
IN THE USE OF VARIOUS LICIT AND ILLICIT DRUGS  
1975–2013***

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

Institute for Social Research  
The University of Michigan  
Ann Arbor, Michigan

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## **Monitoring the Future: A Continuing Study of the Lifestyles and Values of Youth**

As its title suggests, this study is intended to assess the changing lifestyles, values, and preferences of American youth on a continuing basis. Each year since 1975, about 17,000 seniors have participated in the annual survey, which is conducted in some 130 high schools nationwide. Since 1991, the study's annual surveys also have included surveys of similar nationally representative samples of eighth and tenth grade students. In addition, subsamples of seniors from previously participating classes receive follow-up questionnaires by mail each year.

This Occasional Paper Series is intended to disseminate a variety of products from the study, including pre-publication (and somewhat more detailed) versions of journal articles, other substantive articles, and methodological papers.

A full listing of occasional papers and other study reports is available on the study's website, [www.monitoringthefuture.org](http://www.monitoringthefuture.org). The website contains a complete listing of all publications from the study, the abstracts or full text of many of these publications, and recent press releases.

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

**Demographic Subgroup Trends among Adolescents  
In the Use of Various Licit and Illicit Drugs  
1975–2013**

*Monitoring the Future Occasional Paper 81*

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

The University of Michigan  
Institute for Social Research  
Ann Arbor, MI  
2014

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## INTRODUCTION

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This occasional paper presents national demographic subgroup trends for U.S. secondary school students in a series of figures and tables. It supplements two of four annual monographs from the Monitoring the Future (MTF) study, namely the *Overview of Key Findings*<sup>1</sup> and *Volume I: Secondary School Students*.<sup>2</sup> MTF is funded by the National Institute on Drug Abuse under a series of investigator-initiated, competitive research grants.

The full 2013 survey results are reported in *Monitoring the Future National Survey Results on Drug Use, 1975–2013: Volume I, Secondary School Students*.<sup>2</sup> That monograph contains a description of MTF’s design and purposes, as well as extended reporting on substance use of all kinds, licit and illicit, and a number of related factors such as attitudes and beliefs about drugs, age of initiation, non-continuation of drug use, perceived availability, relevant conditions in the social environment, history of daily marijuana use, use of drugs for the treatment of ADHD, and sources of prescription drugs used outside of medical supervision. Until 2012, *Volume I* contained the tabular data on trends in drug use for various demographic subgroups that are now presented in the present occasional paper.

The trends offered here in tabular form and graphic form—the latter for ease of comprehension—cover demographic subgroups based on:

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

Detailed descriptions of the demographic categories are provided in a separate chapter.

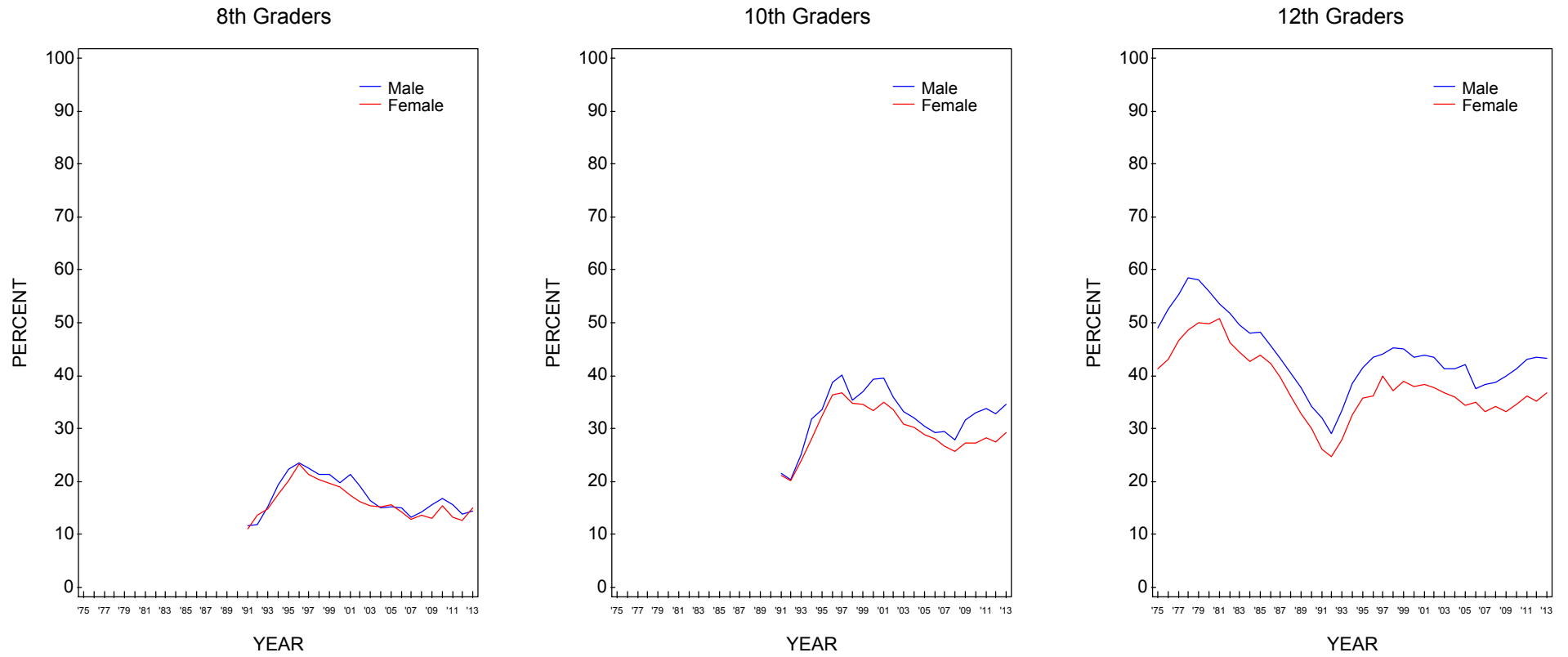
The graphs and tables in this occasional paper present trend data for 8th-, 10th-, and 12th-grade respondents. Data for 12th grade begins with 1975, the first year in which a nationally representative sample of high school seniors was surveyed. Data for 8th and 10th grades begin with 1991, when the study’s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

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<sup>1</sup> Johnston, L.D., O’Malley, P.M., Miech, R.A., Bachman, J.G., & Schulenberg, J.E. (2014). *Monitoring the Future national survey results on drug use, 1975–2013. Overview of key findings on adolescence drug use*. Ann Arbor: Institute for Social Research, The University of Michigan

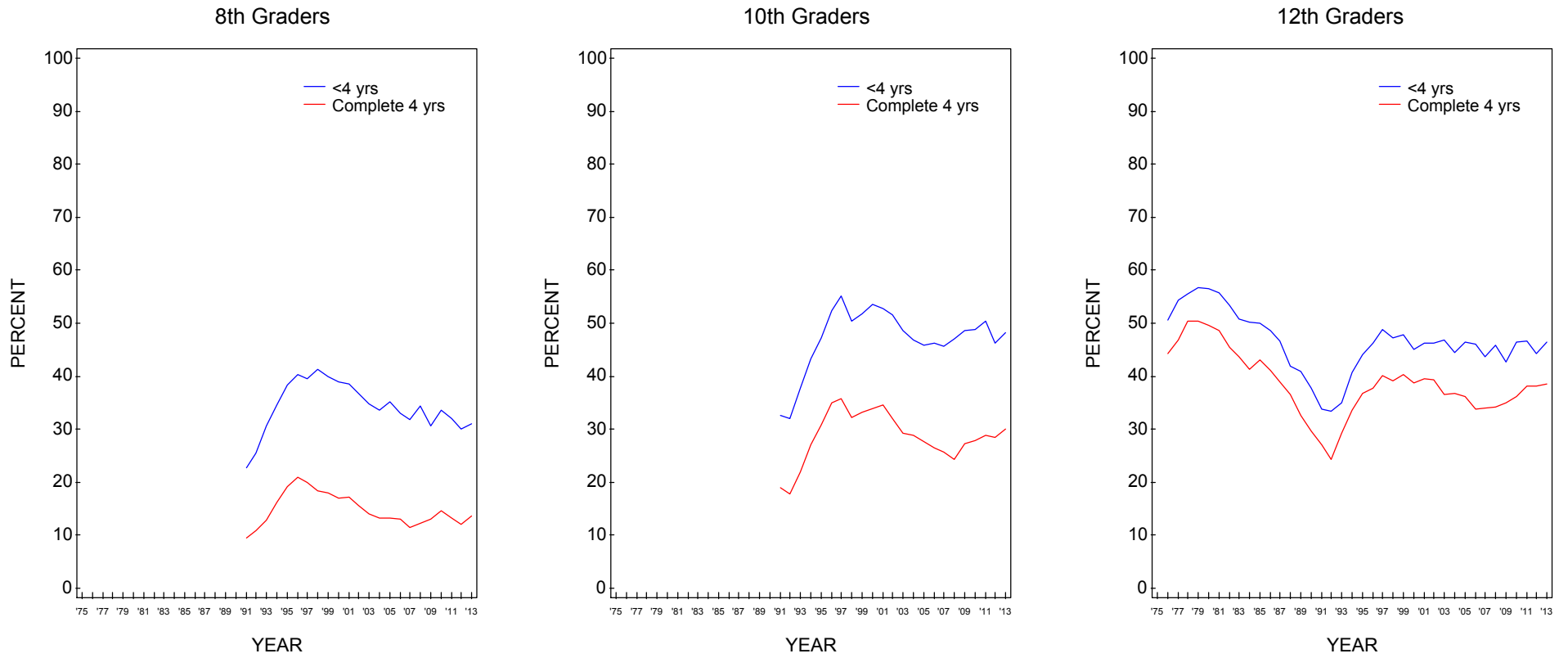
<sup>2</sup> Johnston, L.D., O’Malley, P.M., Bachman, J.G., Schulenberg, J.E., & Miech, R.A. (2014). *Monitoring the Future national survey results on drug use, 1975–2013. Volume I: Secondary school students*. Ann Arbor: Institute for Social Research, The University of Michigan.

**FIGURE 1**  
**Any Illicit Drug: Trends in Annual Prevalence by Gender**



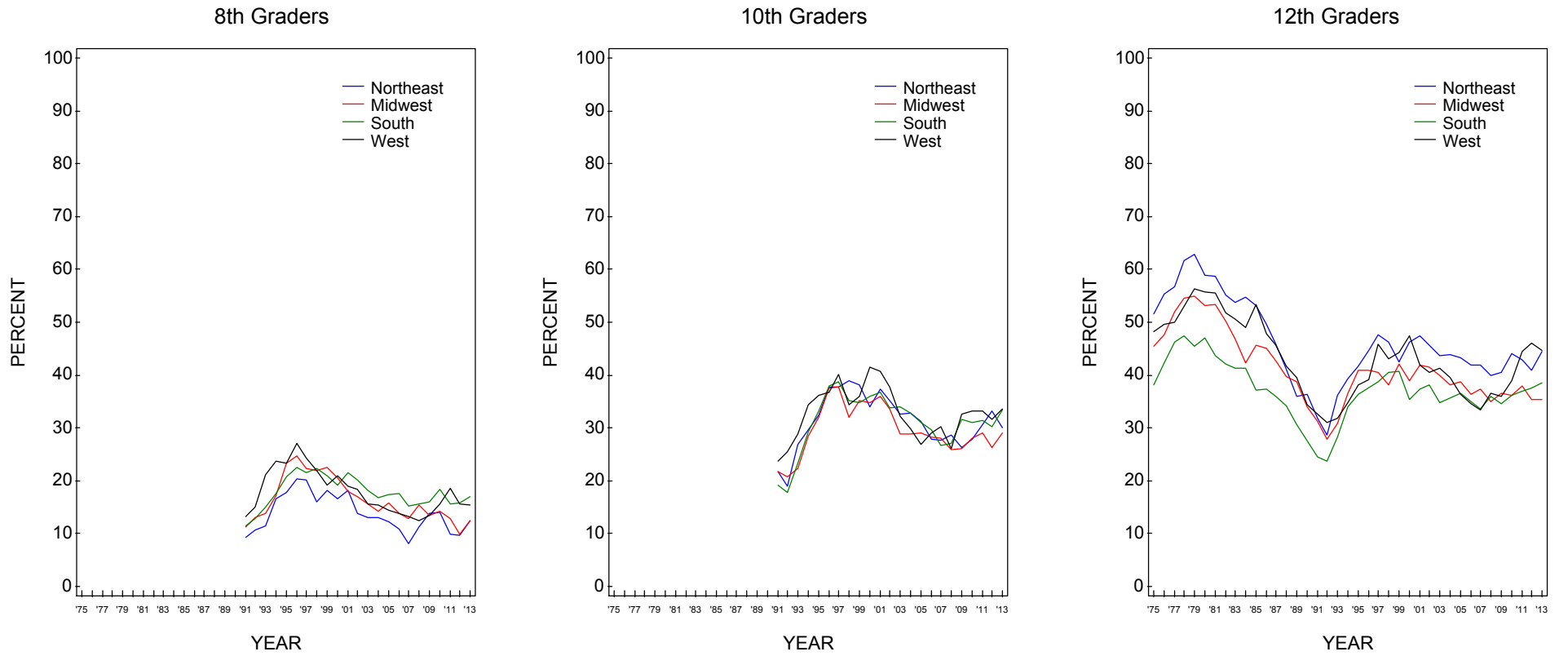
Source. The Monitoring the Future study, the University of Michigan.

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



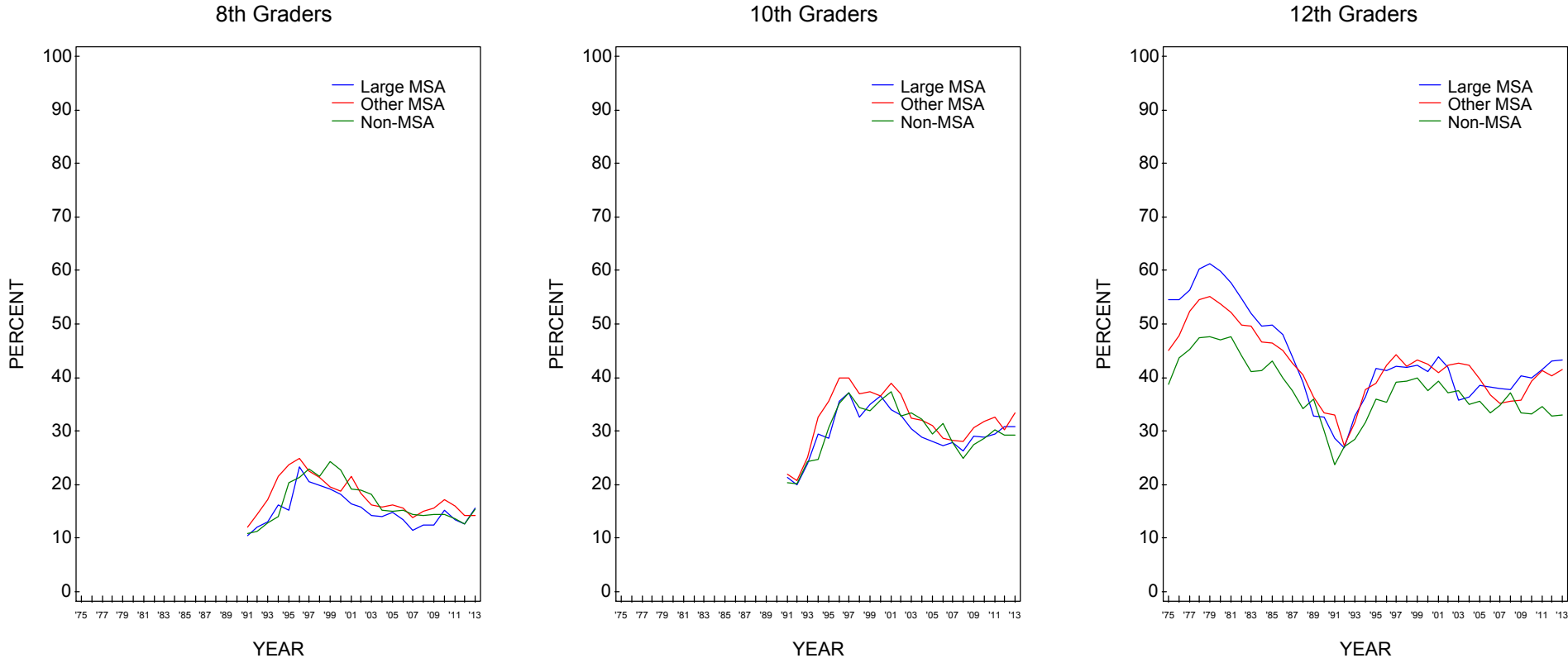
Source. The Monitoring the Future study, the University of Michigan.

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



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

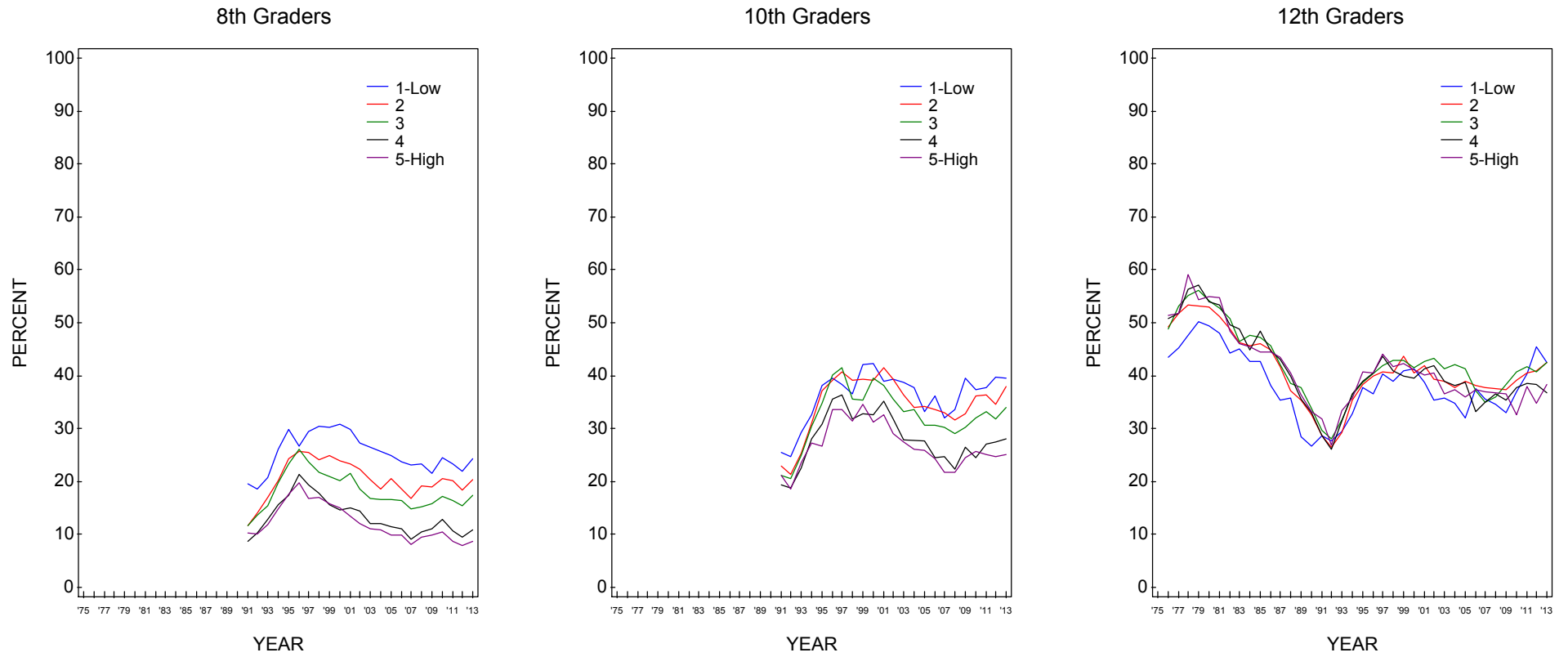
**FIGURE 4**  
**Any Illicit Drug: Trends in Annual Prevalence by Population Density**



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

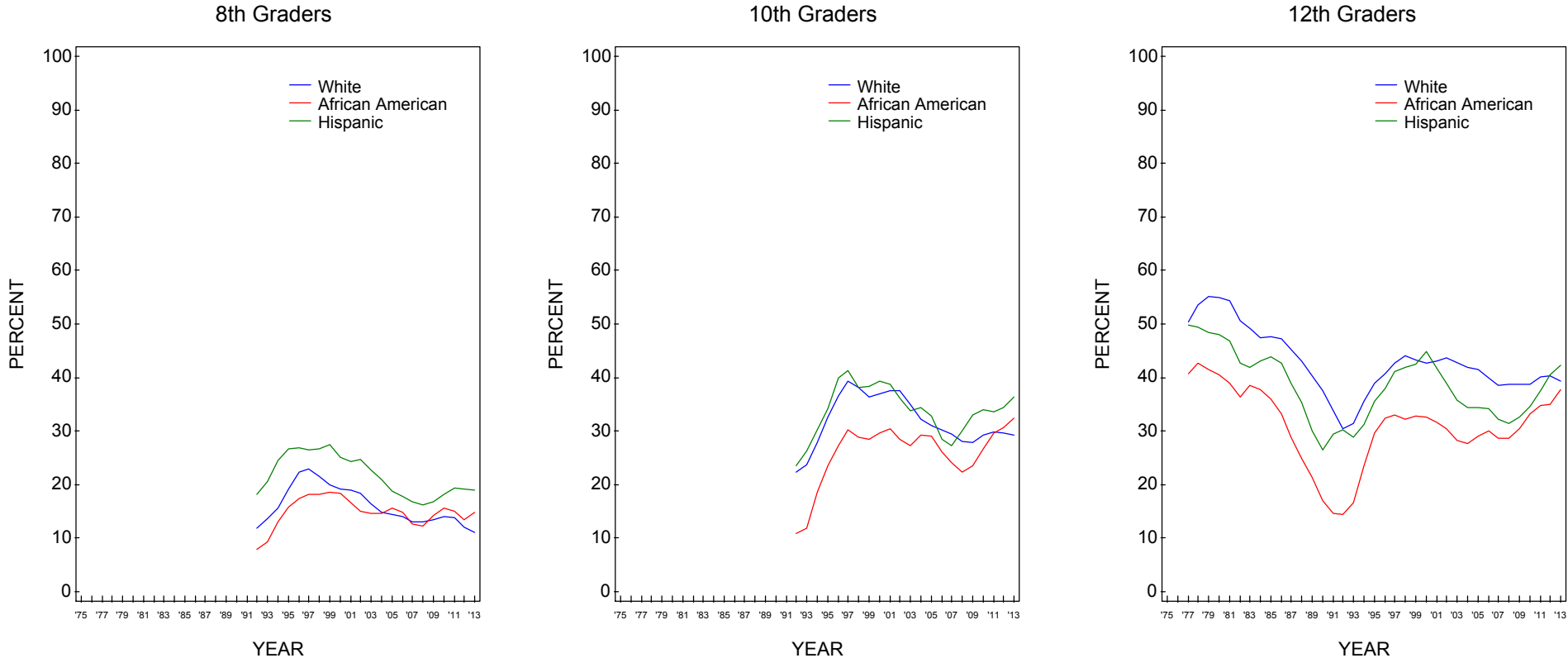


**FIGURE 5**  
**Any Illicit Drug: Trends in Annual Prevalence by Average Education Level of Parents**



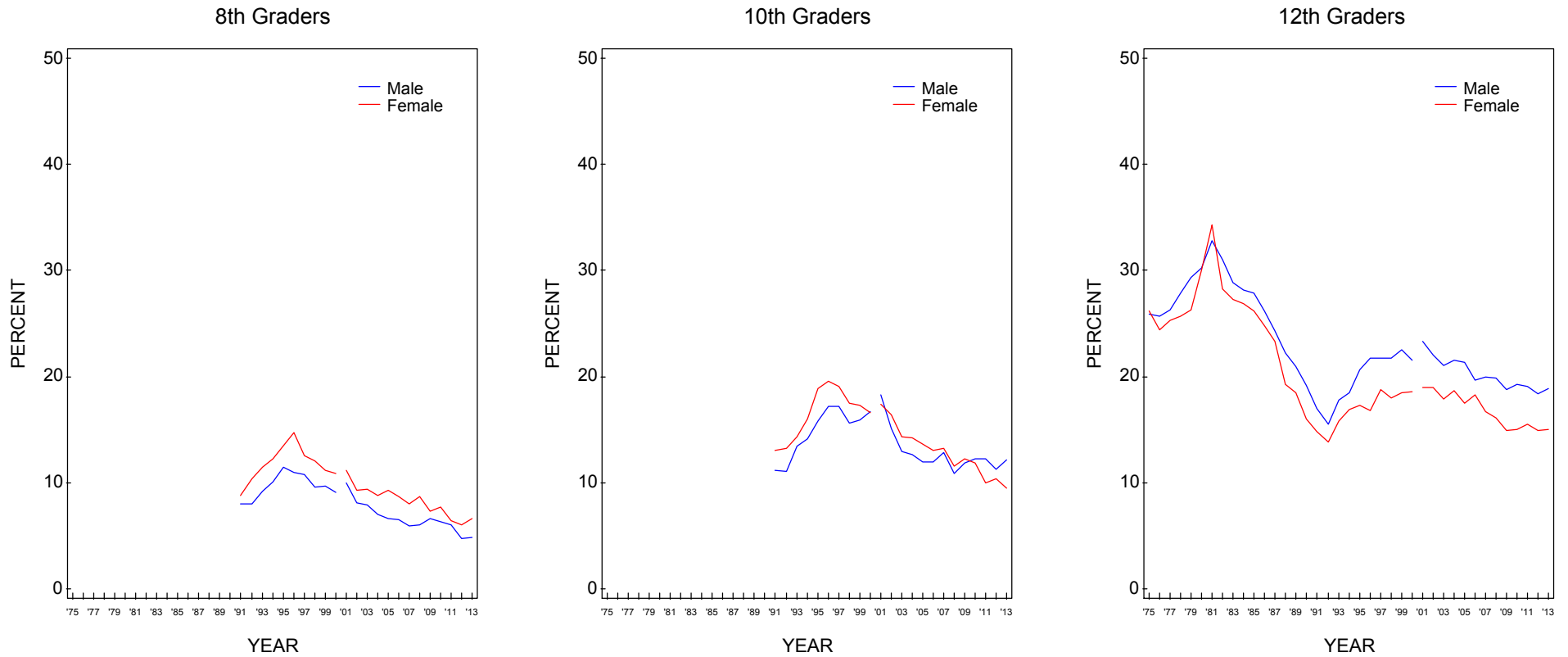
Source. The Monitoring the Future study, the University of Michigan.

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



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

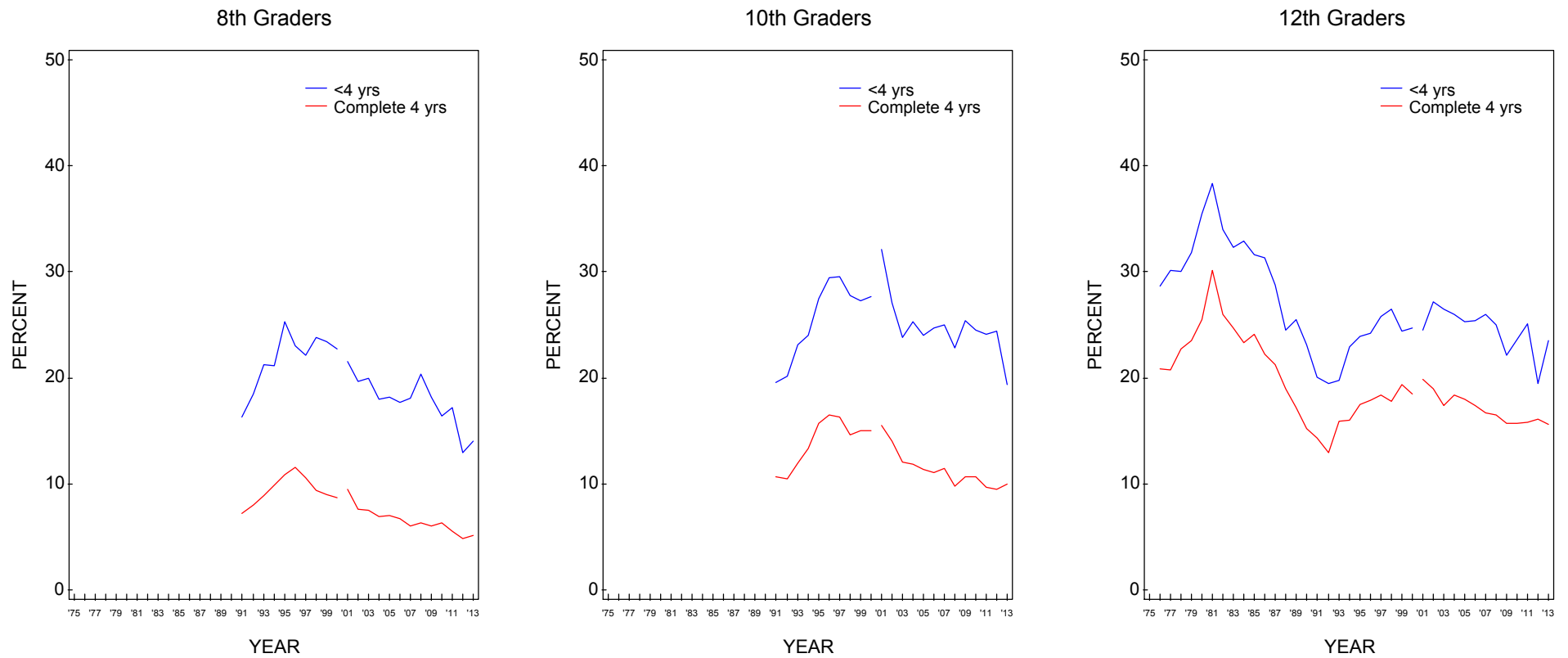
**FIGURE 7**  
**Any Illicit Drug other than Marijuana:\* Trends in Annual Prevalence by Gender**



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

\*Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Data for any illicit drug other than marijuana are affected by these changes. Refer to corresponding tables for further details.

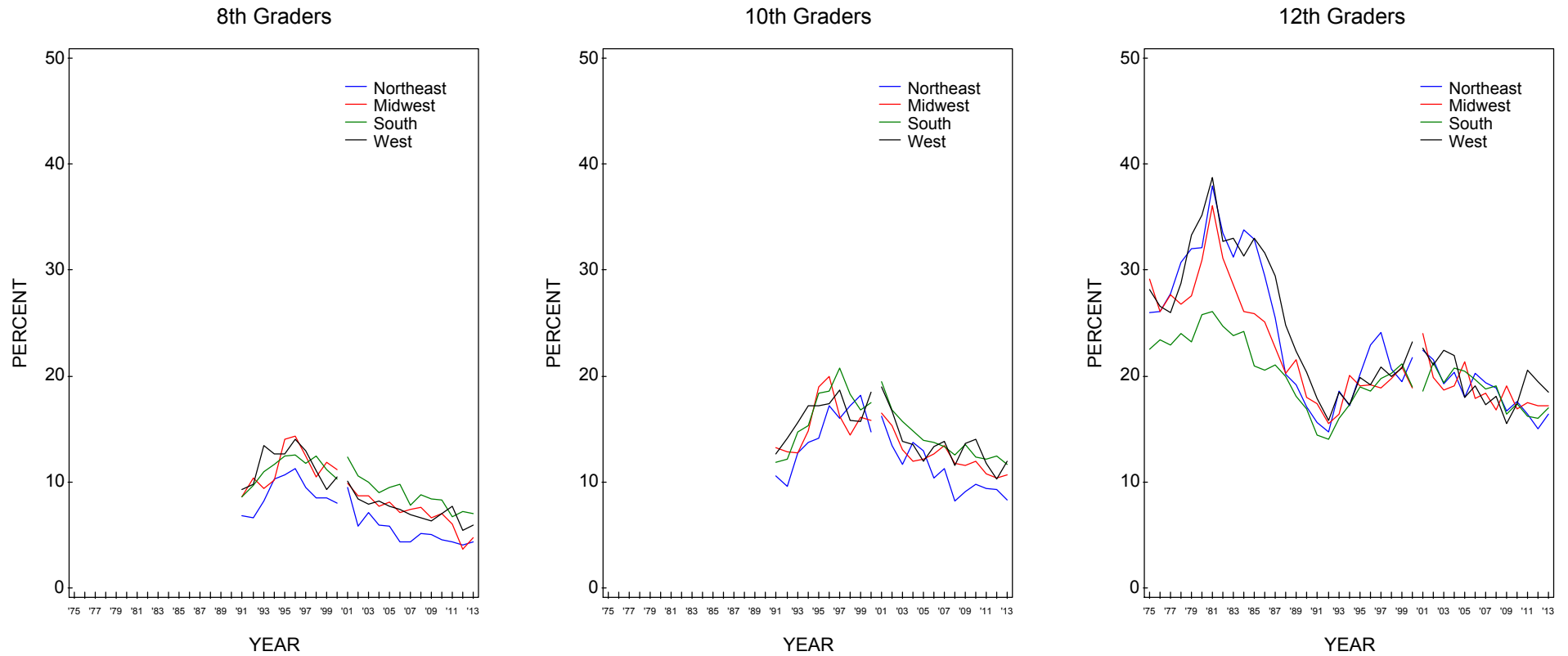
**FIGURE 8**  
**Any Illicit Drug other than Marijuana:\* Trends in Annual Prevalence by College Plans**



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

\*Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Data for any illicit drug other than marijuana are affected by these changes. Refer to corresponding tables for further details.

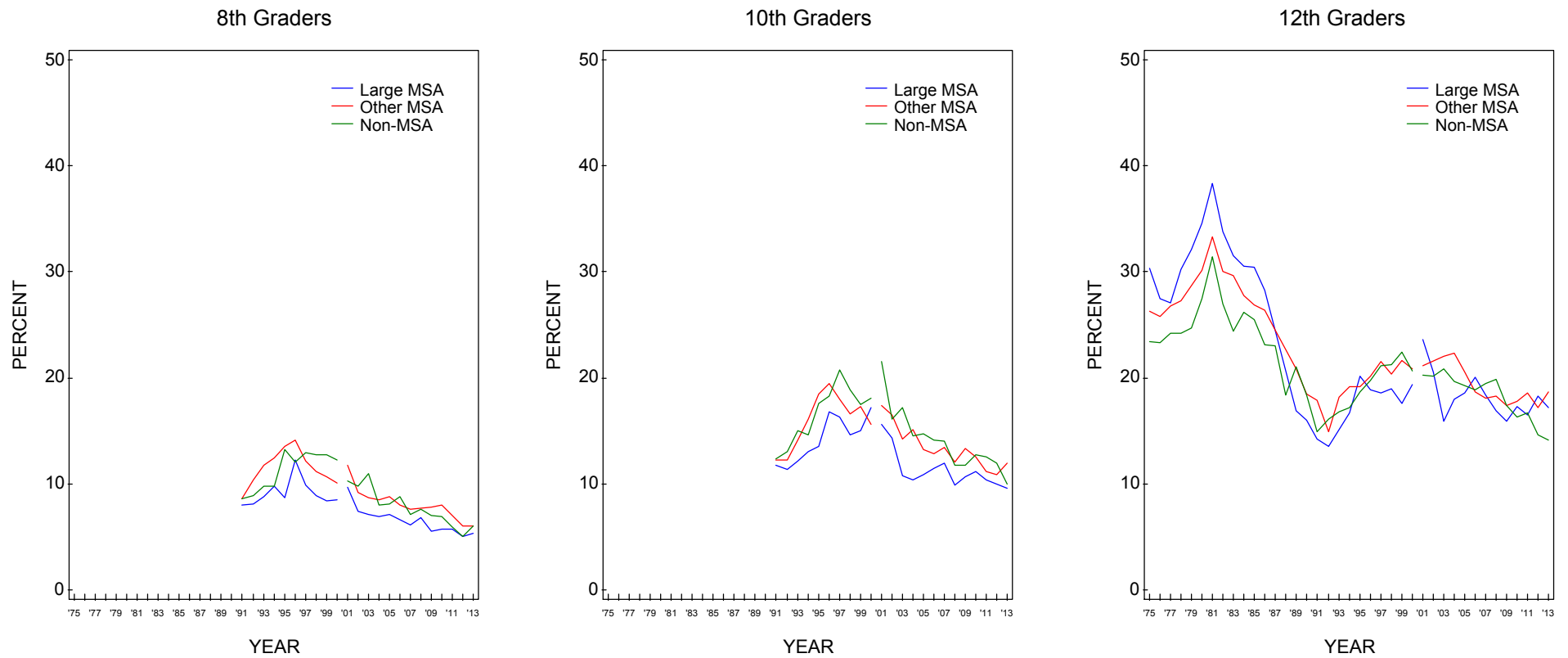
**FIGURE 9**  
**Any Illicit Drug other than Marijuana:\* Trends in Annual Prevalence by Region**



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

\*Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Data for any illicit drug other than marijuana are affected by these changes. Refer to corresponding tables for further details.

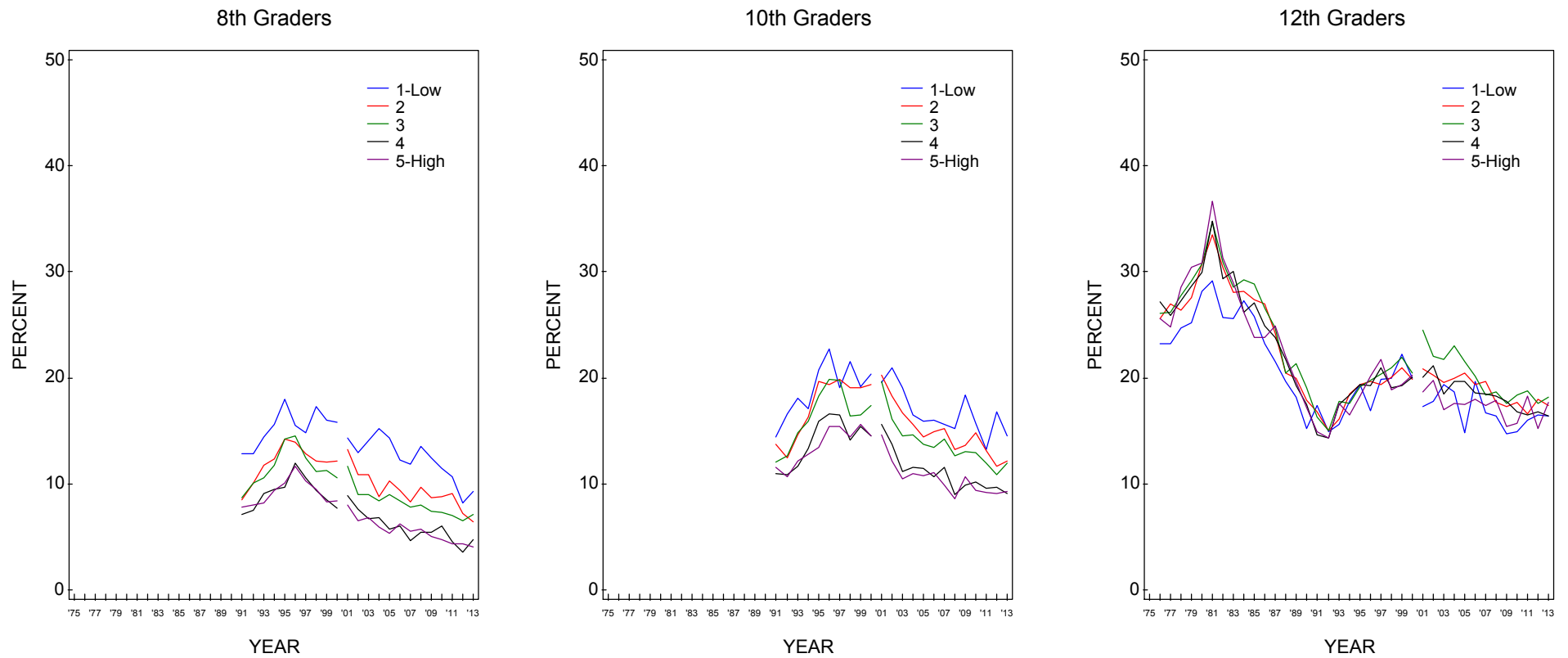
**FIGURE 10**  
**Any Illicit Drug other than Marijuana:\* Trends in Annual Prevalence by Population Density**



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

\*Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Data for any illicit drug other than marijuana are affected by these changes. Refer to corresponding tables for further details.

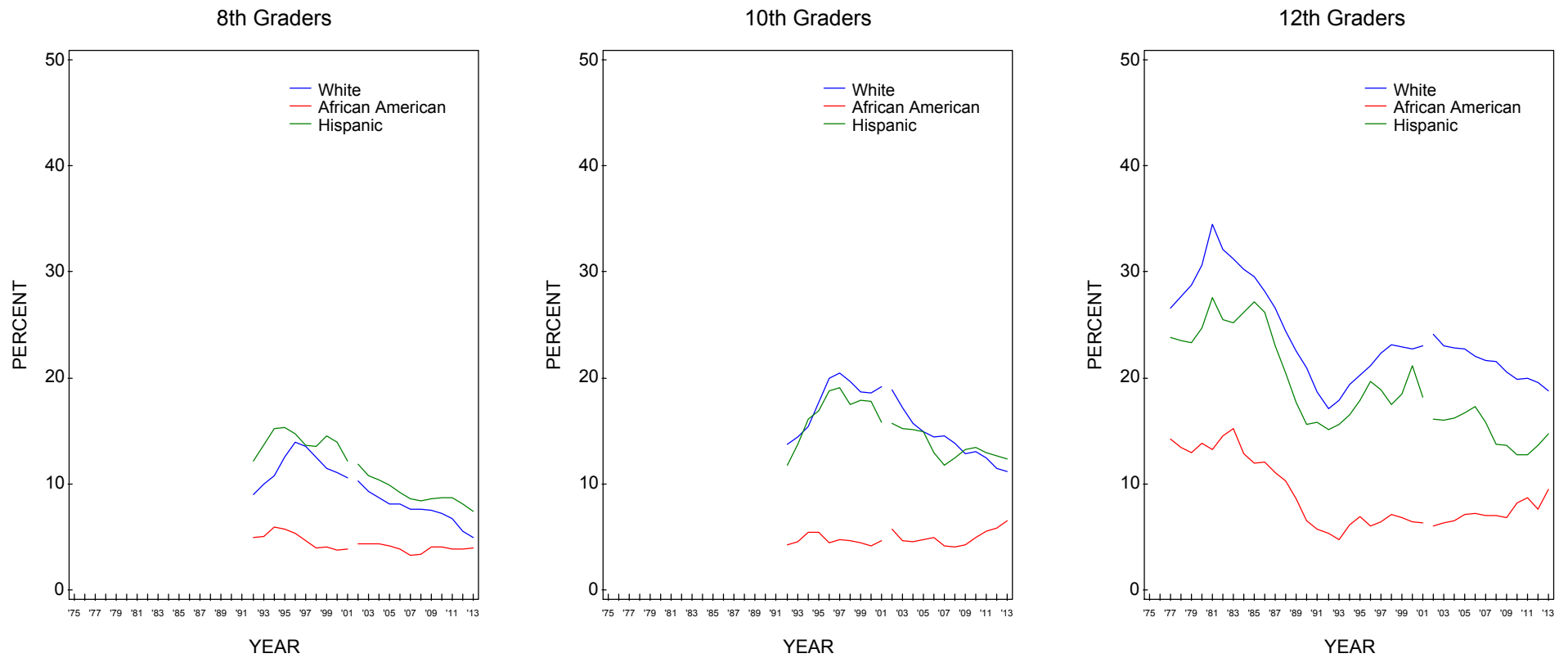
**FIGURE 11**  
**Any Illicit Drug other than Marijuana:\* Trends in Annual Prevalence by Average Education Level of Parents**



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

\*Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Data for any illicit drug other than marijuana are affected by these changes. Refer to corresponding tables for further details.

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



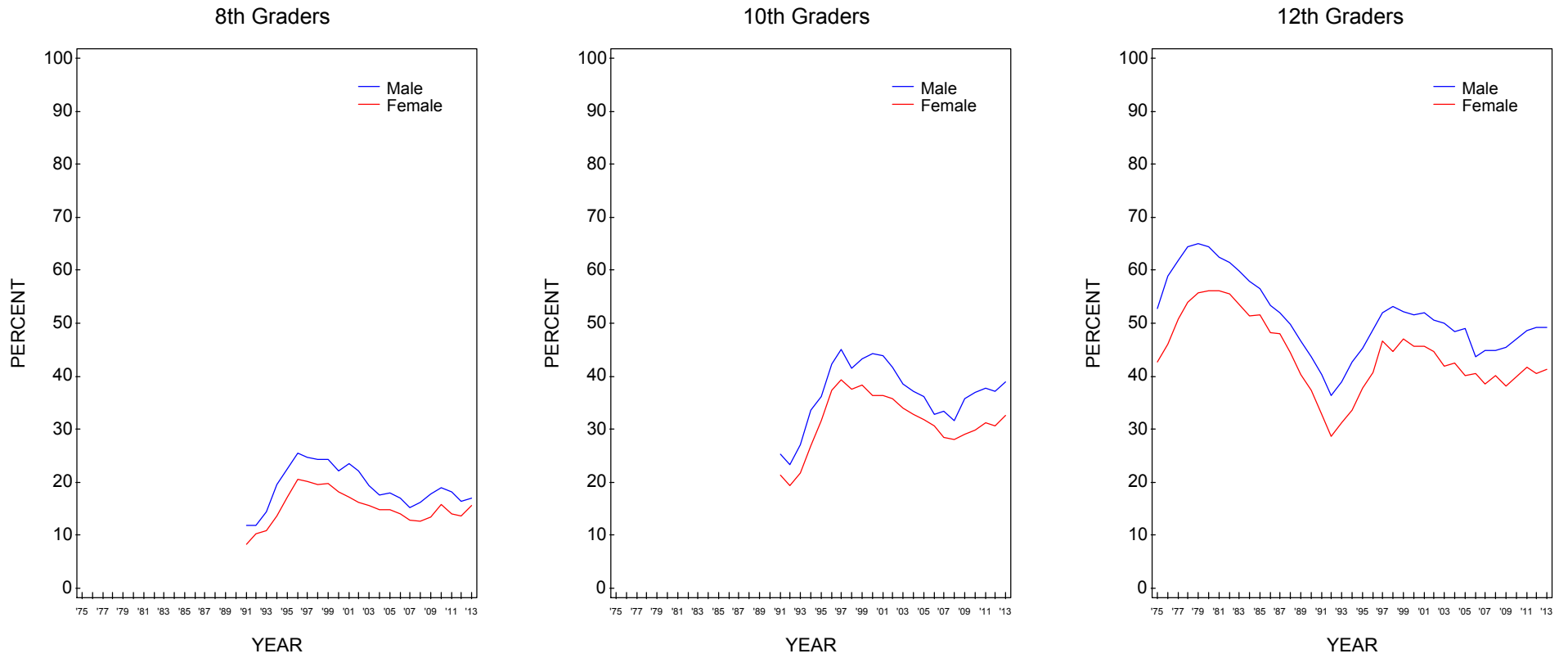
Source. The Monitoring the Future study, the University of Michigan.

\*Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Data for any illicit drug other than marijuana are affected by these changes. Refer to corresponding tables for further details.

\*\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

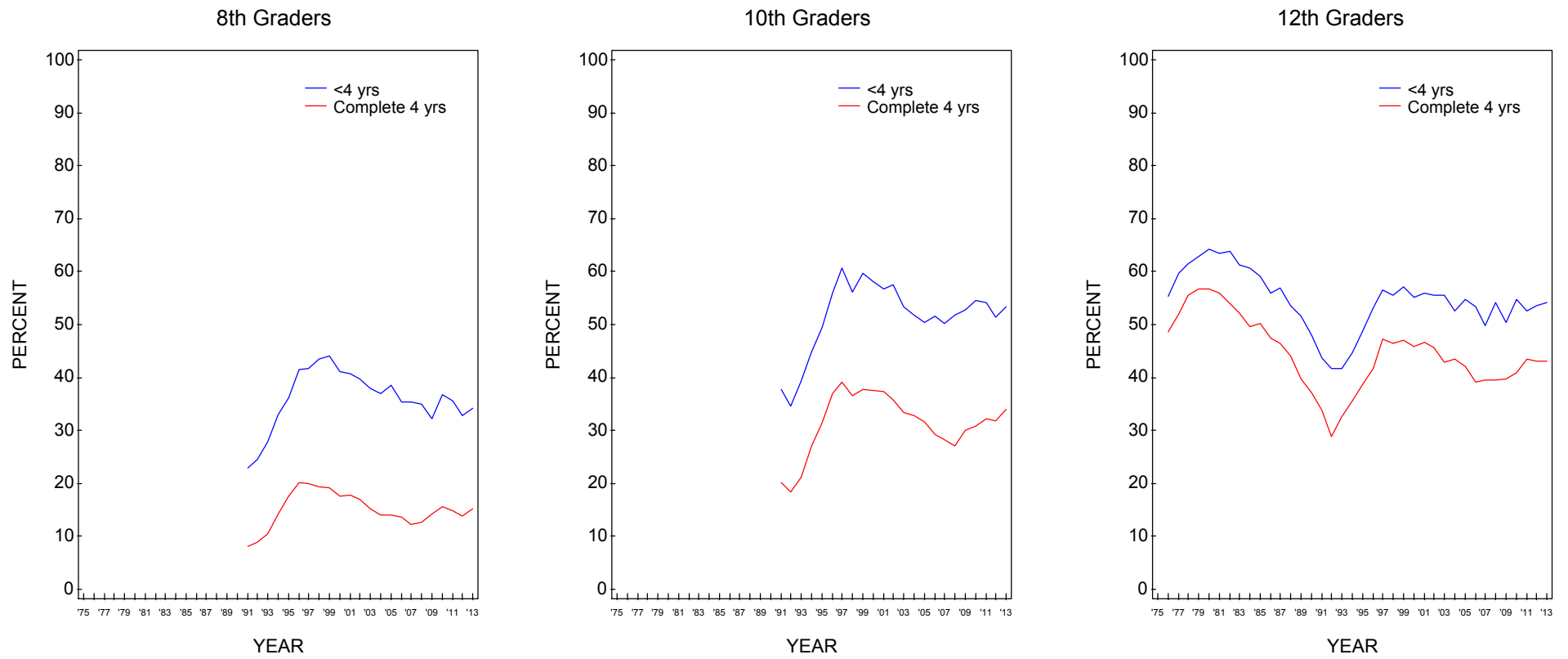


**FIGURE 13**  
**Marijuana: Trends in Lifetime Prevalence by Gender**



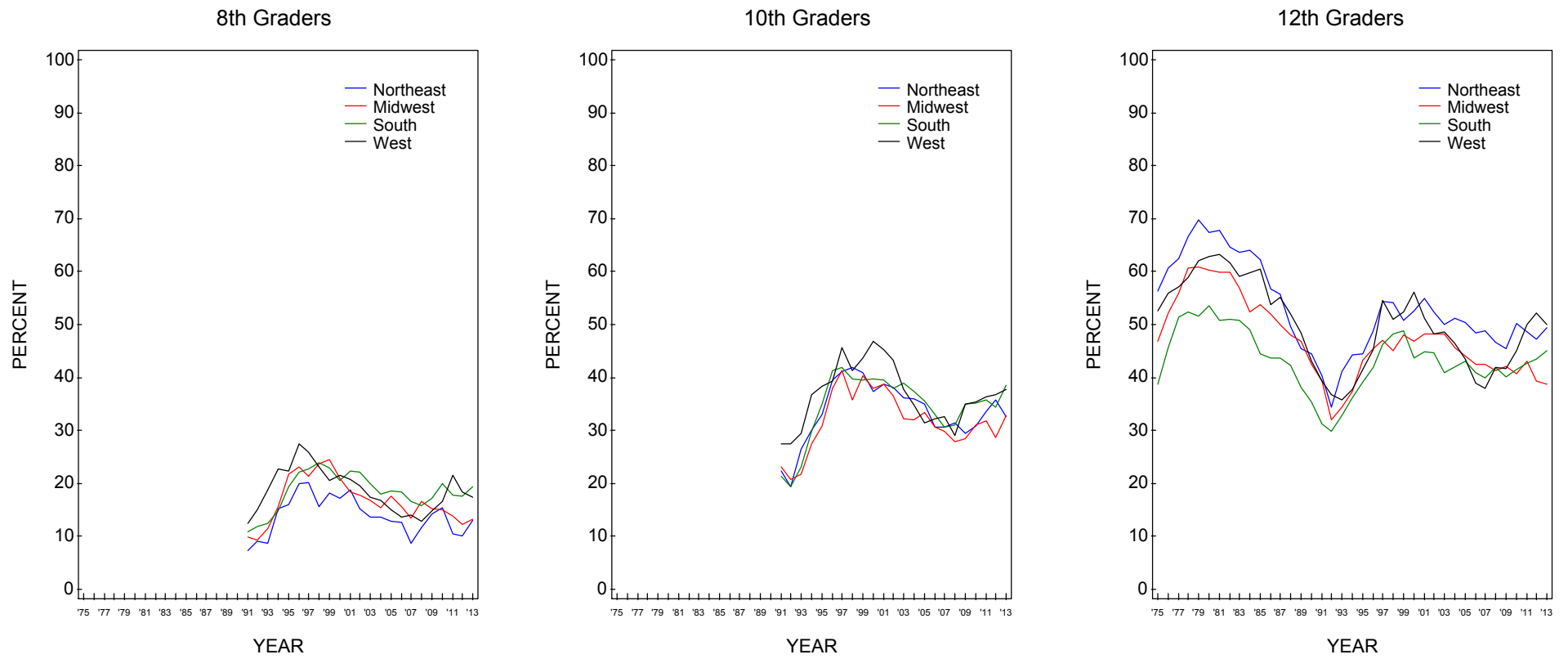
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 14**  
**Marijuana: Trends in Lifetime Prevalence by College Plans**



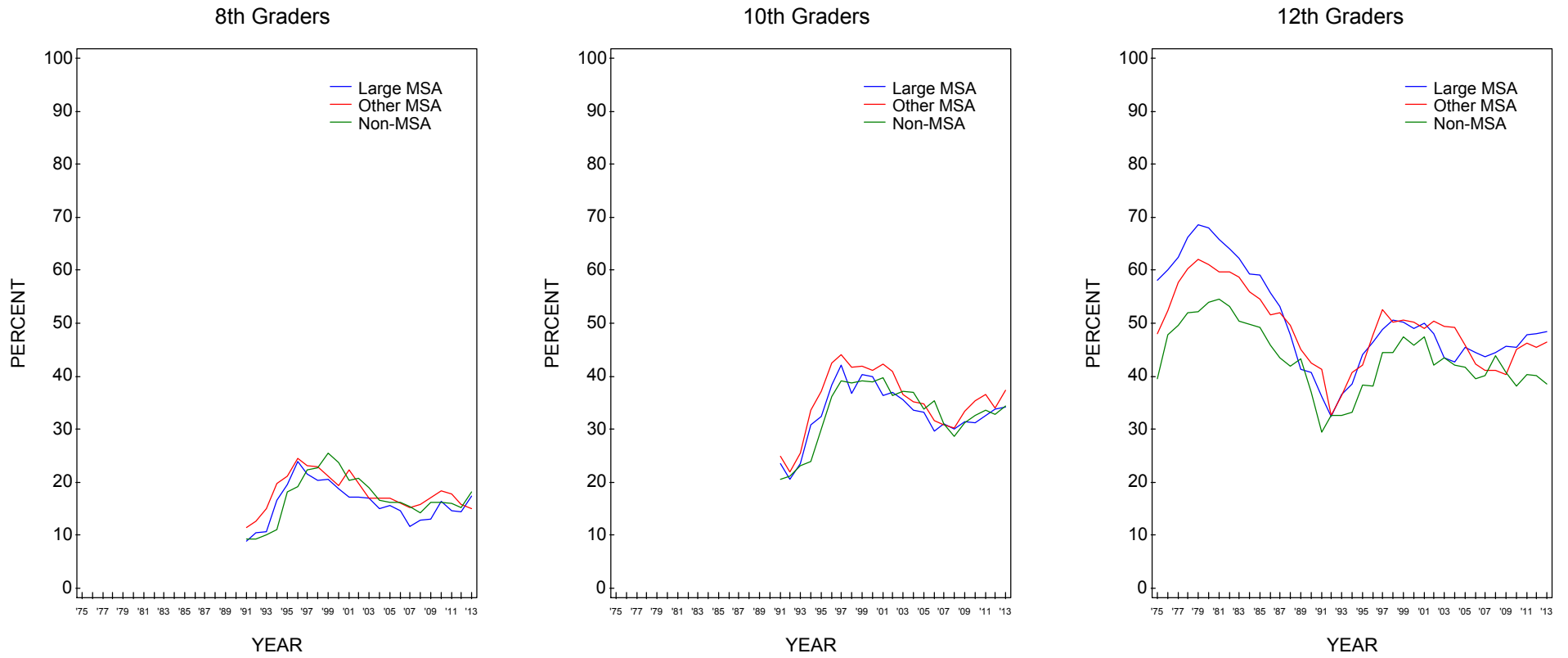
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 15**  
**Marijuana: Trends in Lifetime Prevalence by Region**



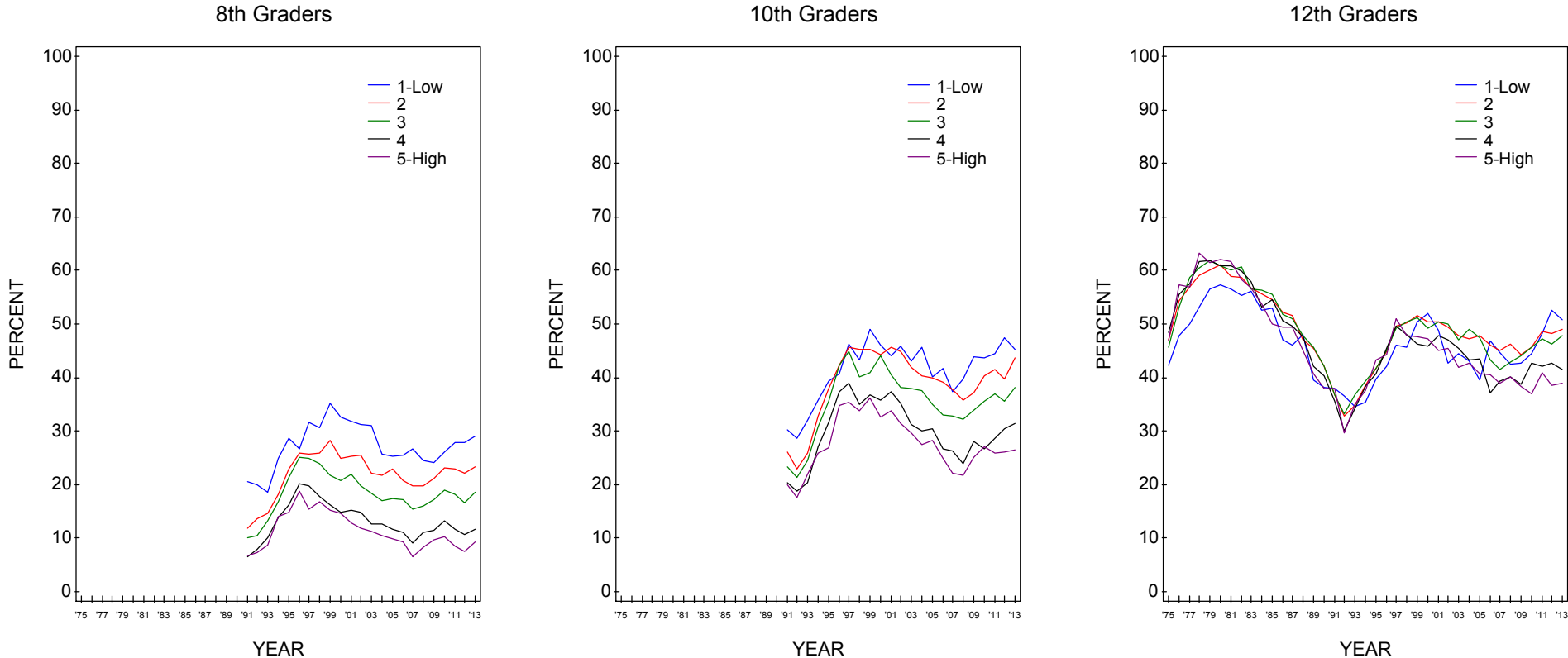
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 16**  
**Marijuana: Trends in Lifetime Prevalence by Population Density**



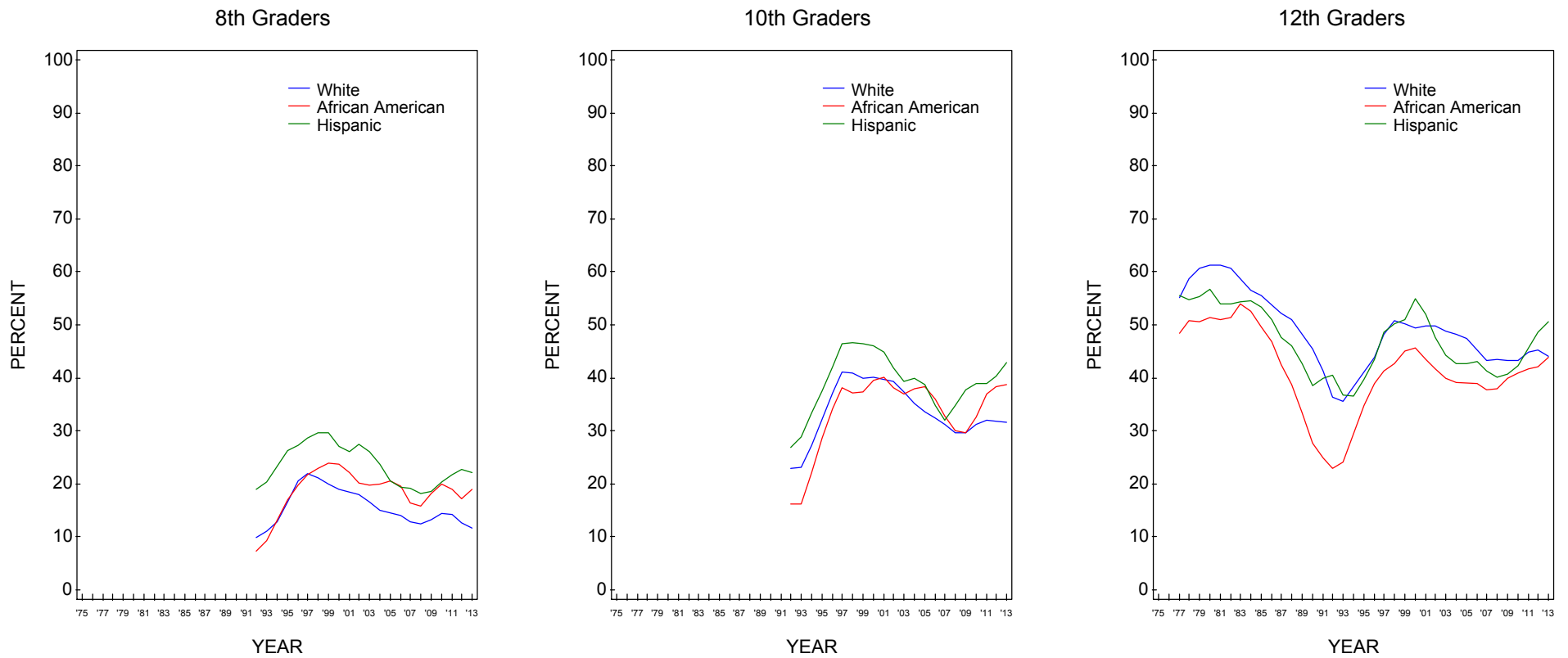
Source. The Monitoring the Future study, the University of Michigan.

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



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

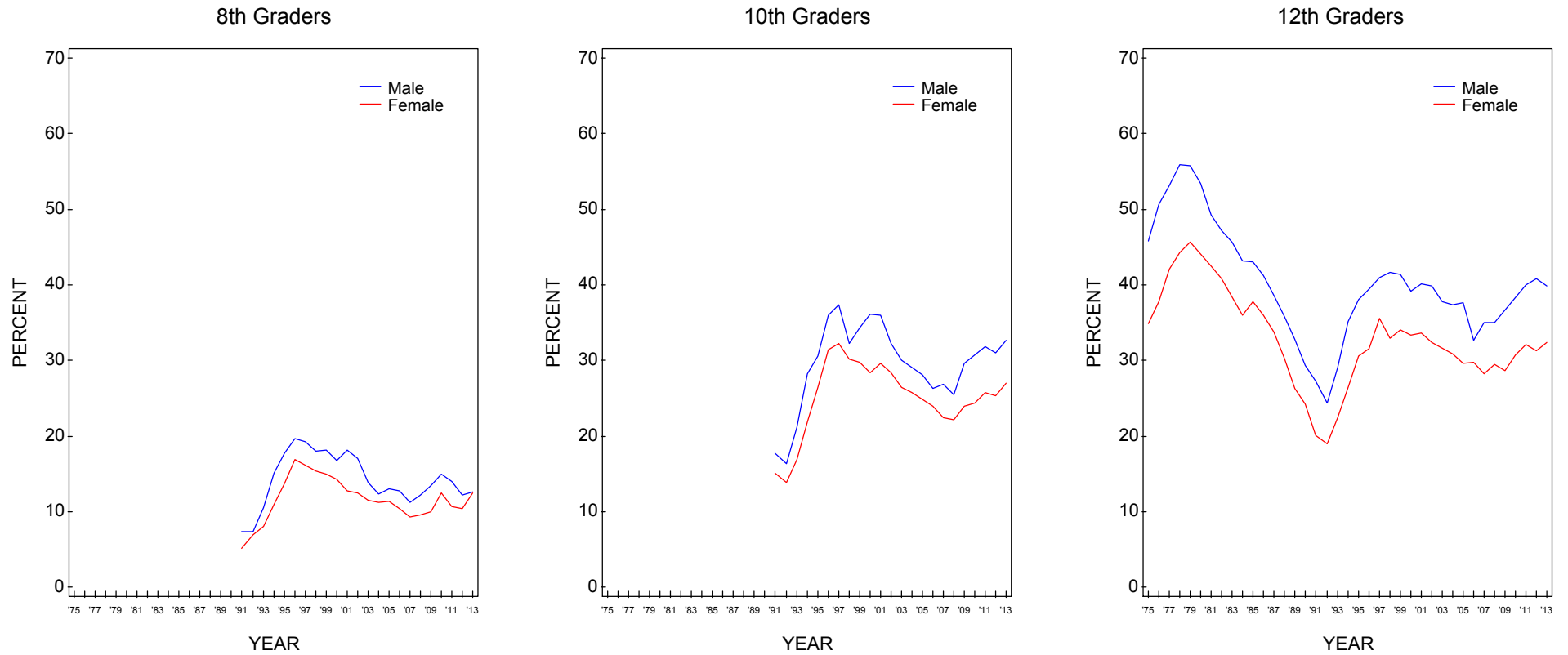
**FIGURE 18**  
**Marijuana: Trends in Lifetime Prevalence by Race/Ethnicity\***



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

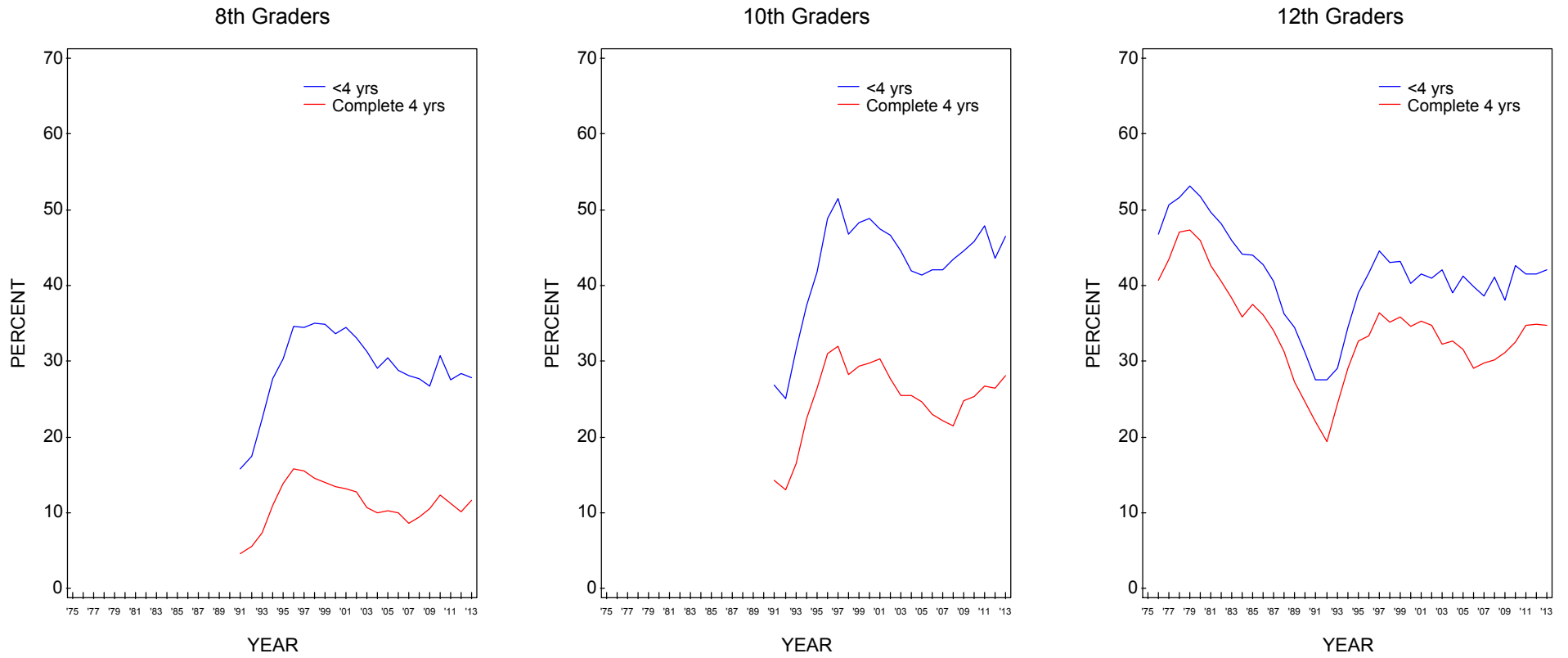
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 19**  
**Marijuana: Trends in Annual Prevalence by Gender**



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

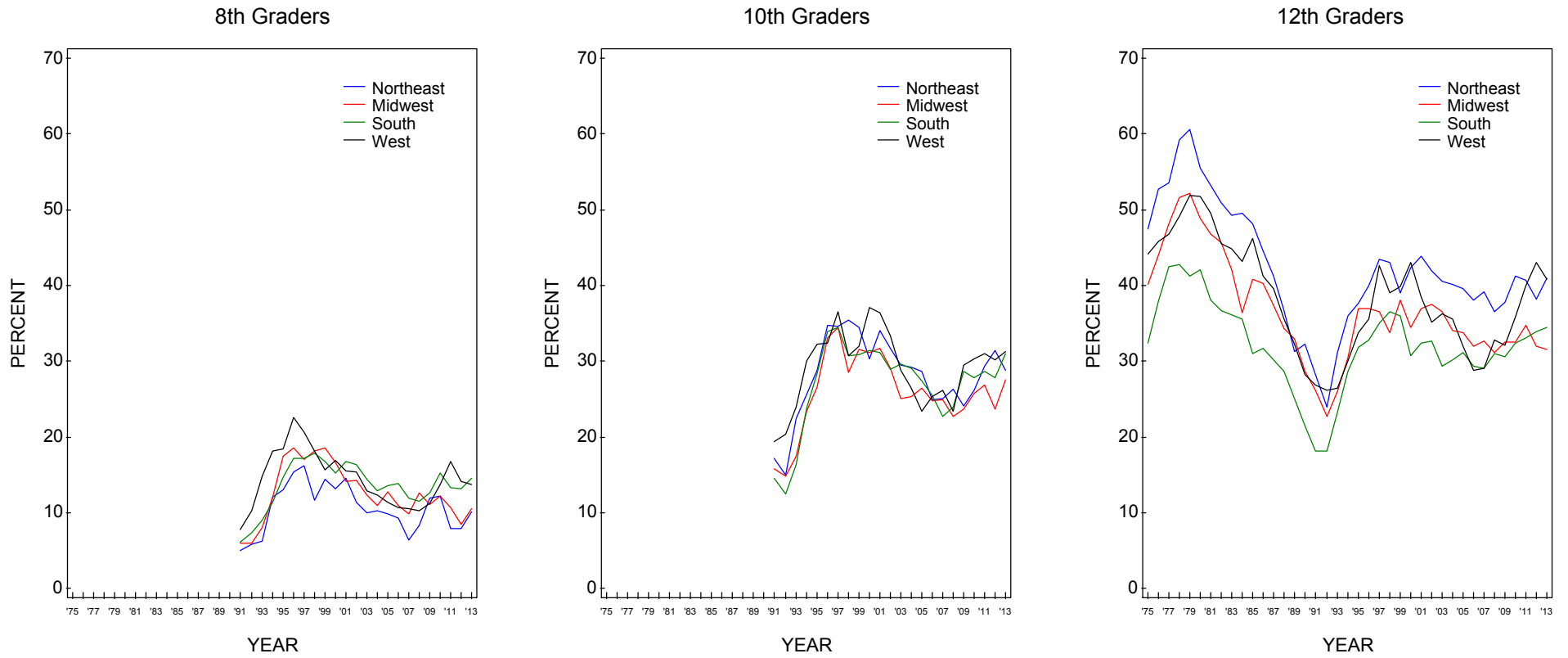
**FIGURE 20**  
**Marijuana: Trends in Annual Prevalence by College Plans**



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

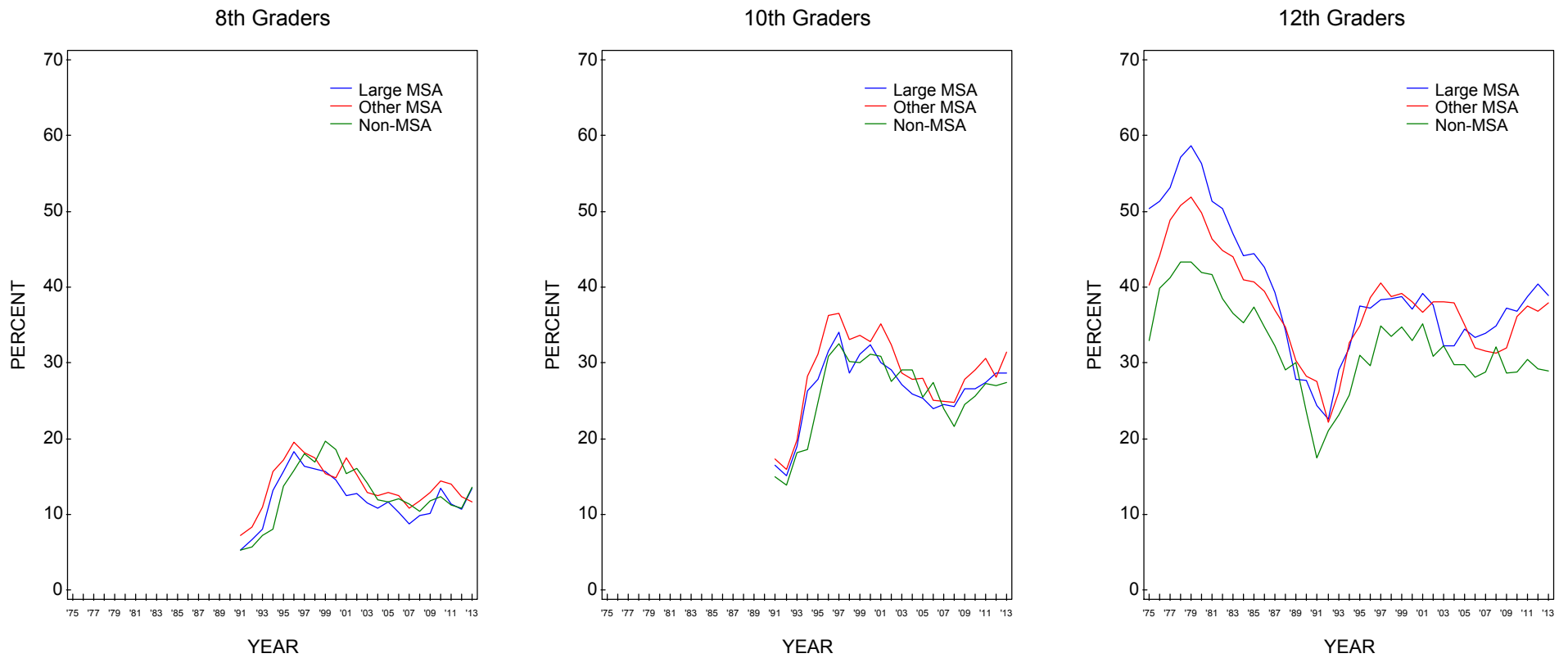


**FIGURE 21**  
**Marijuana: Trends in Annual Prevalence by Region**



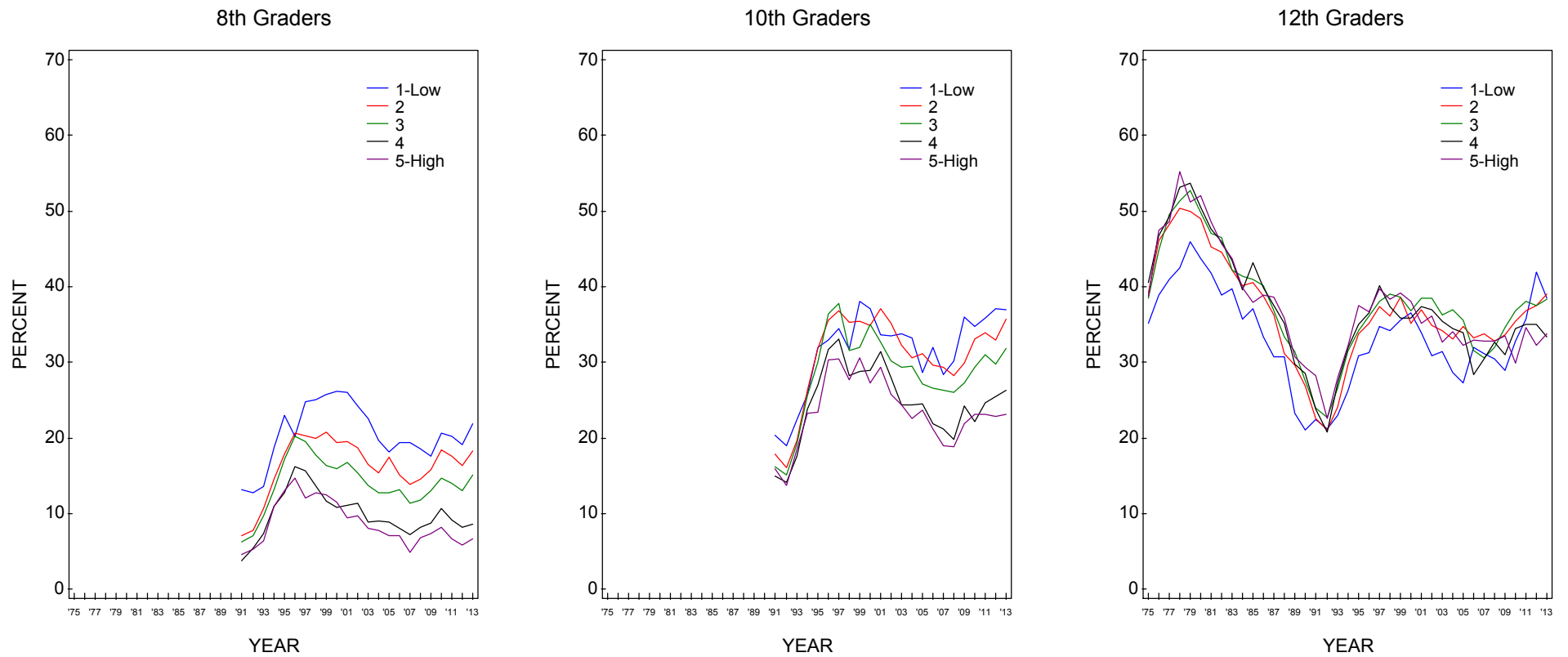
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 22**  
**Marijuana: Trends in Annual Prevalence by Population Density**



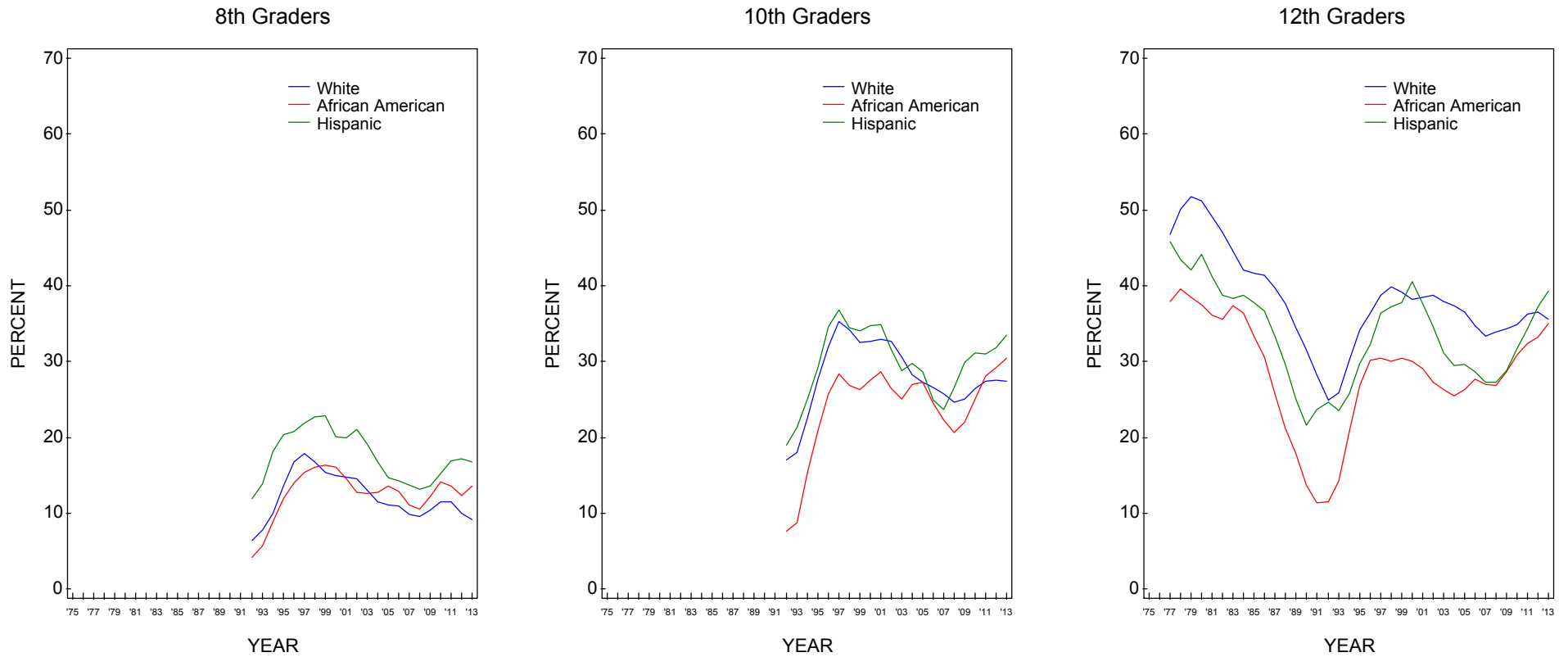
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 23**  
**Marijuana: Trends in Annual Prevalence by Average Education Level of Parents**



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

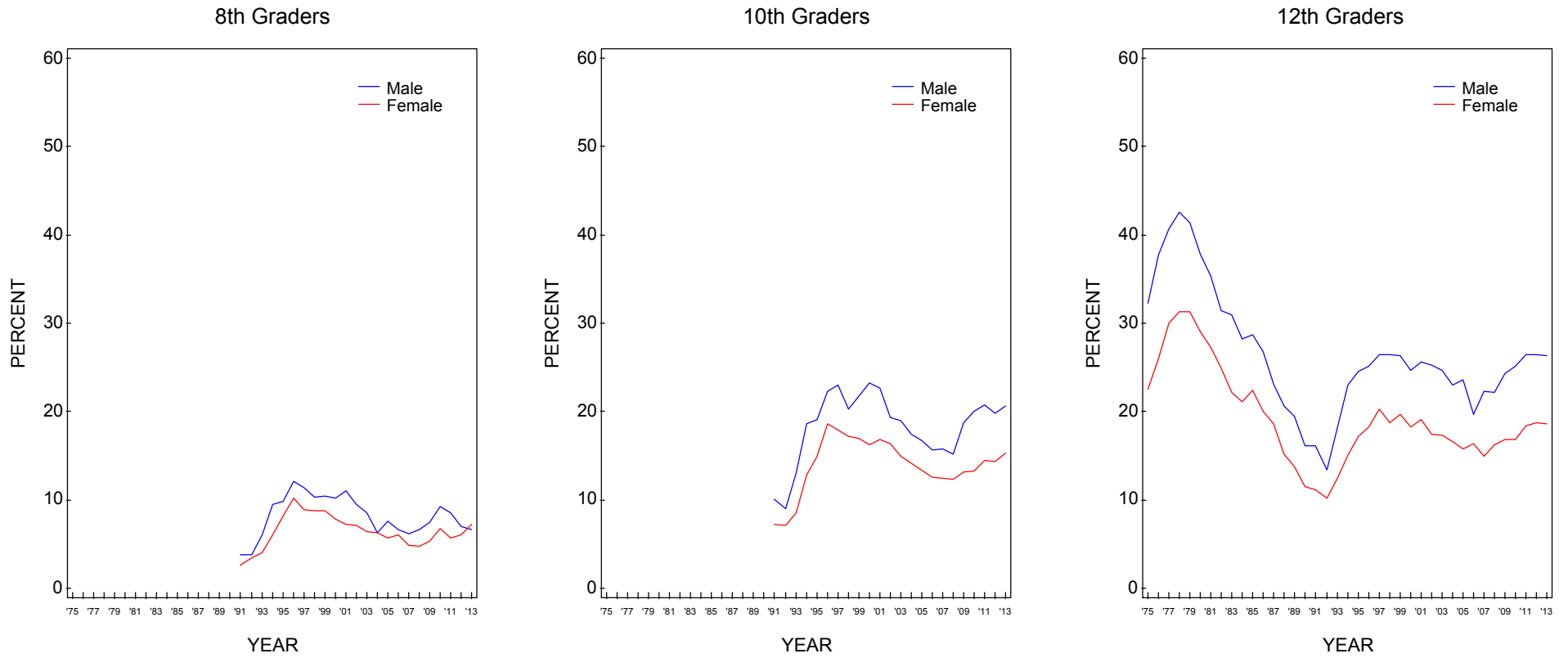
**FIGURE 24**  
**Marijuana: Trends in Annual Prevalence by Race/Ethnicity\***



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

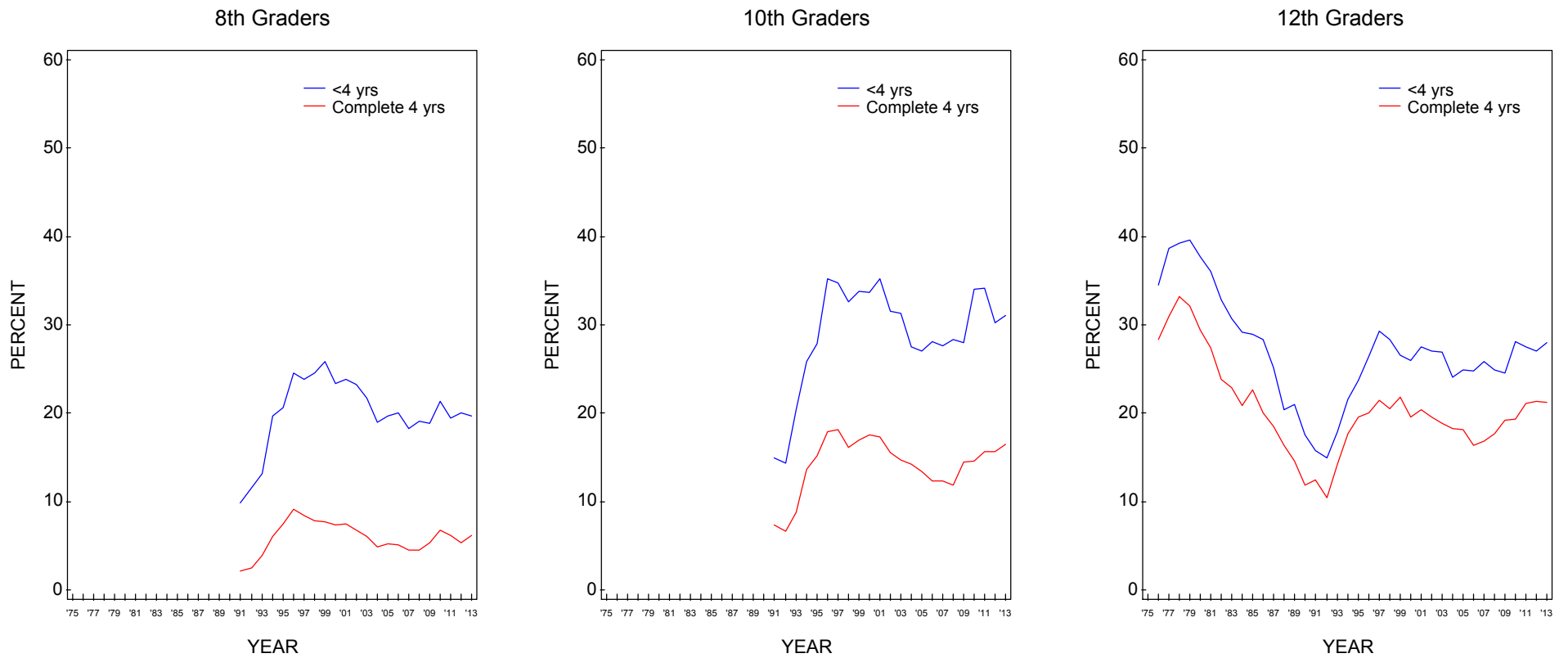
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 25**  
**Marijuana: Trends in 30-Day Prevalence by Gender**



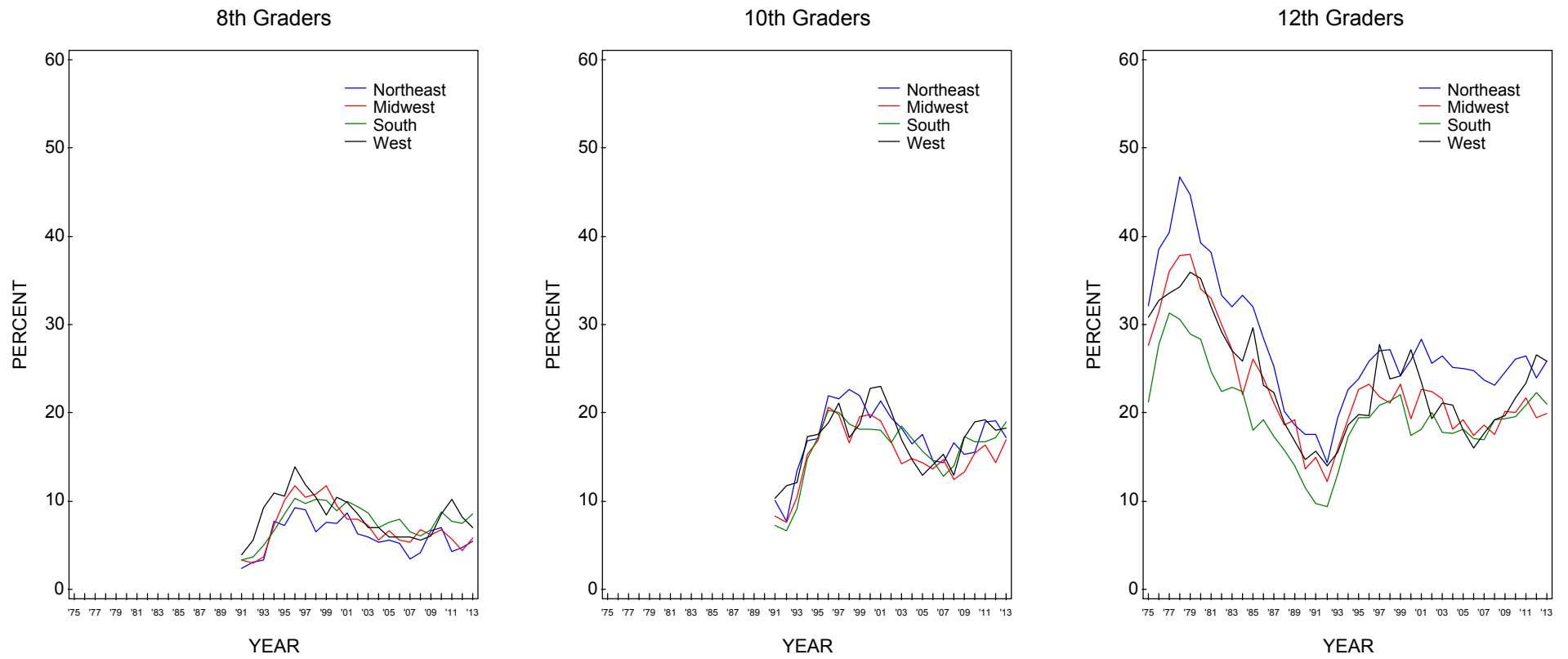
Source. The Monitoring the Future study, the University of Michigan.

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



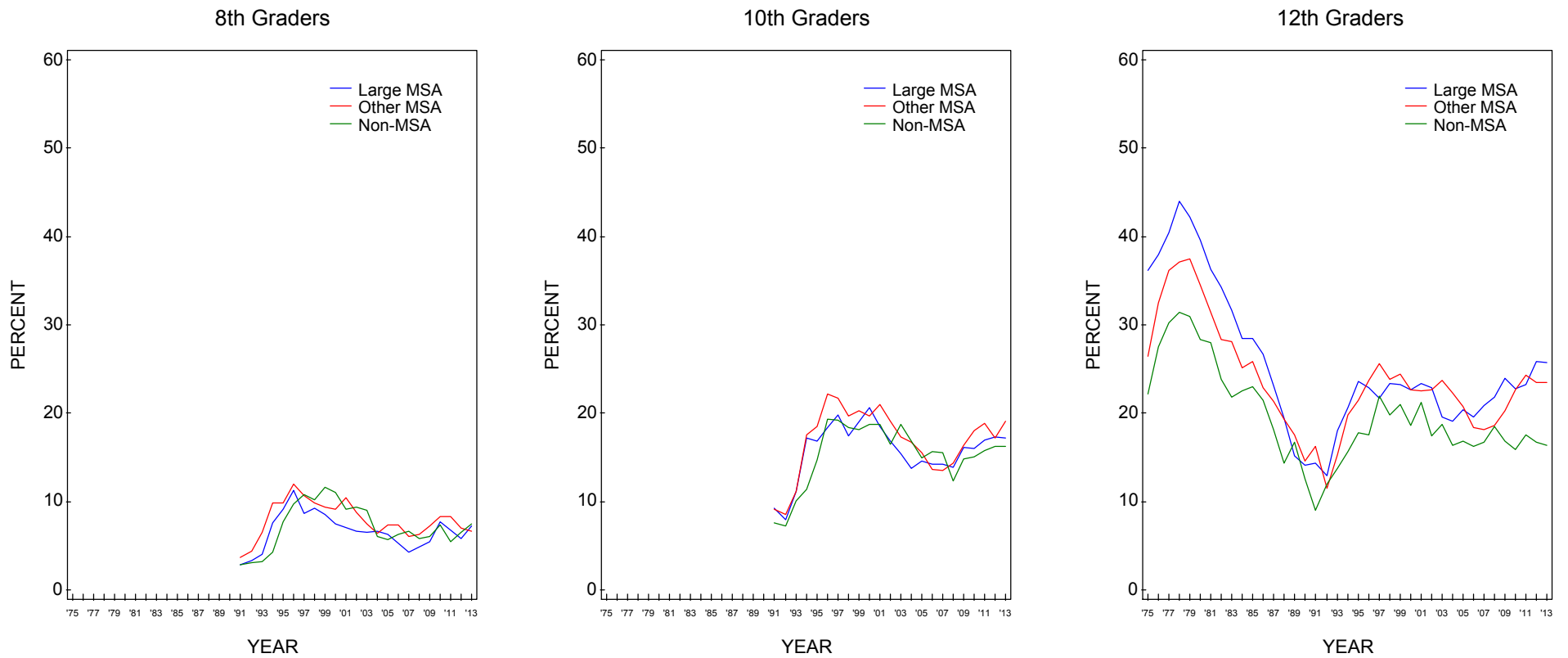
Source. The Monitoring the Future study, the University of Michigan.

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



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

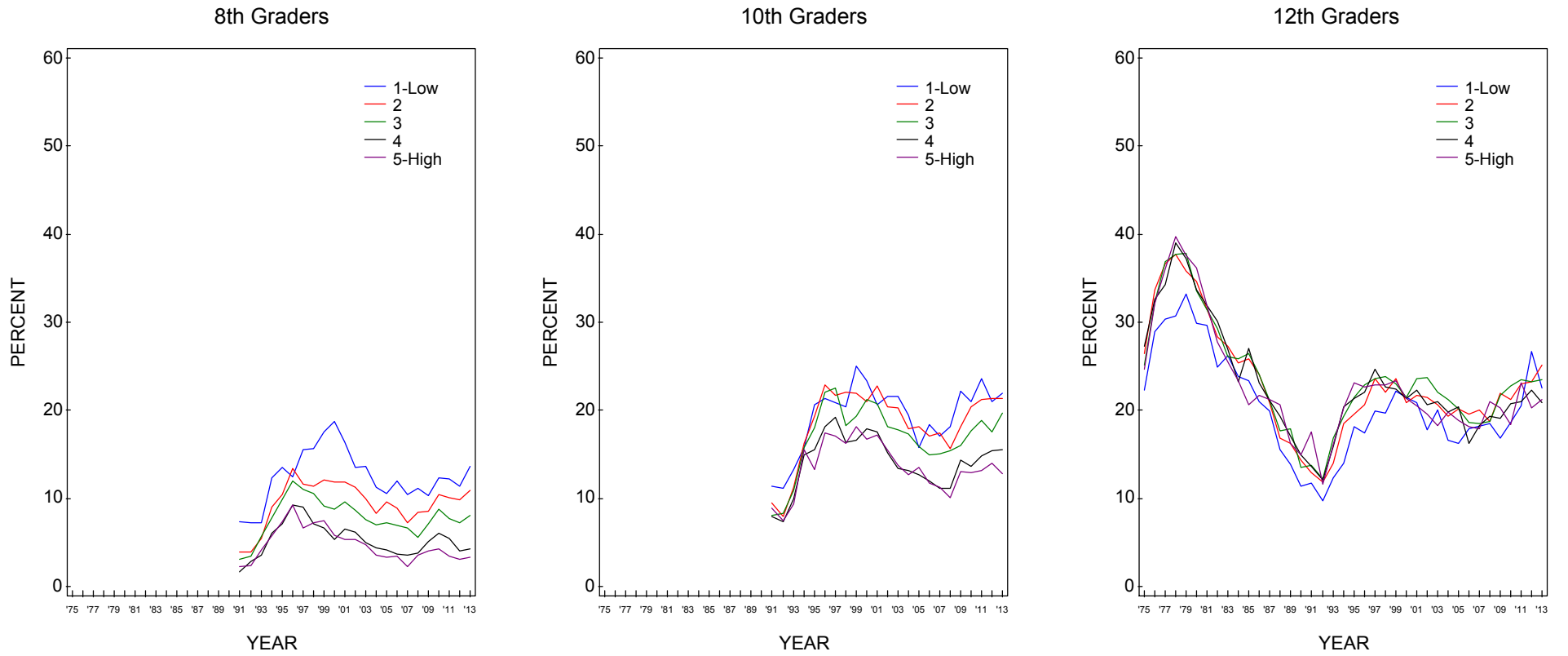
**FIGURE 28**  
**Marijuana: Trends in 30-Day Prevalence by Population Density**



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

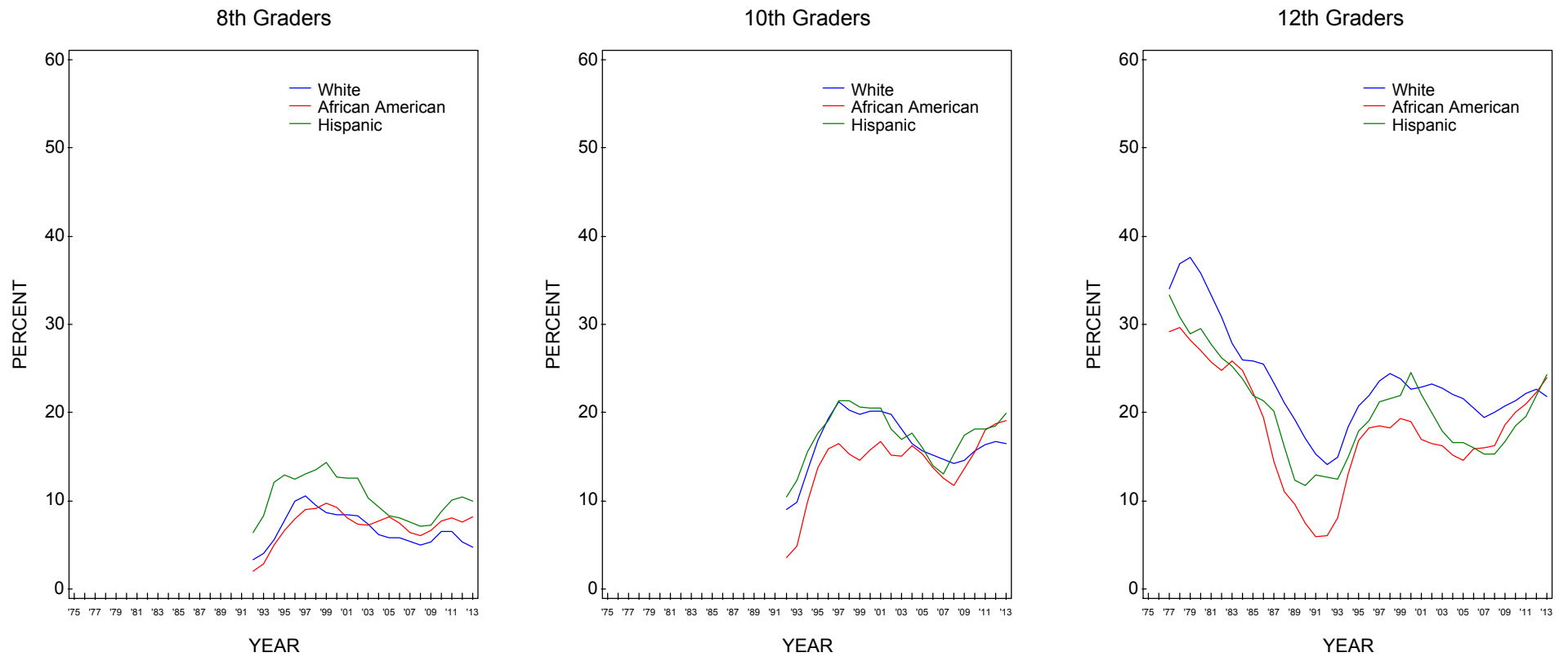


**FIGURE 29**  
**Marijuana: Trends in 30-Day Prevalence by Average Education Level of Parents**



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

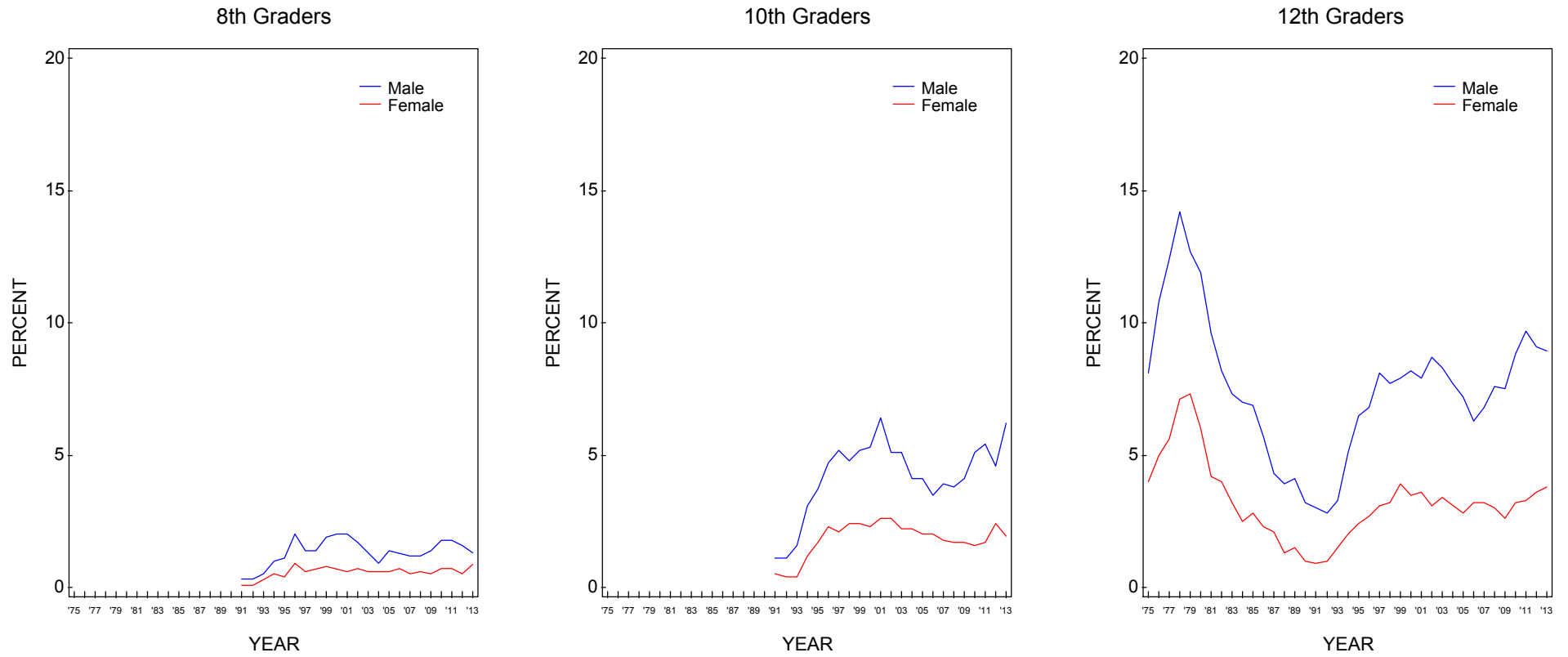
**FIGURE 30**  
**Marijuana: Trends in 30-Day Prevalence by Race/Ethnicity\***



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

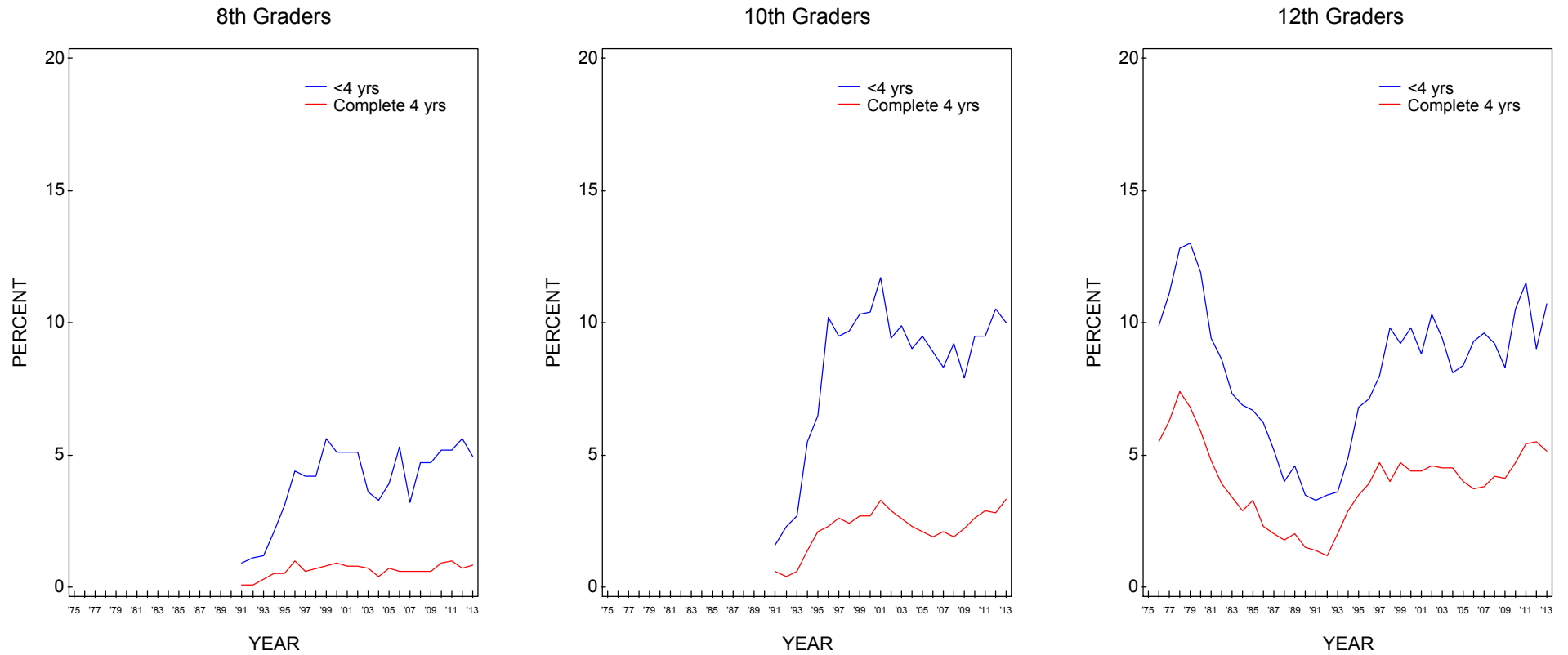
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 31**  
**Marijuana: Trends in 30-Day Prevalence of Daily Use by Gender**



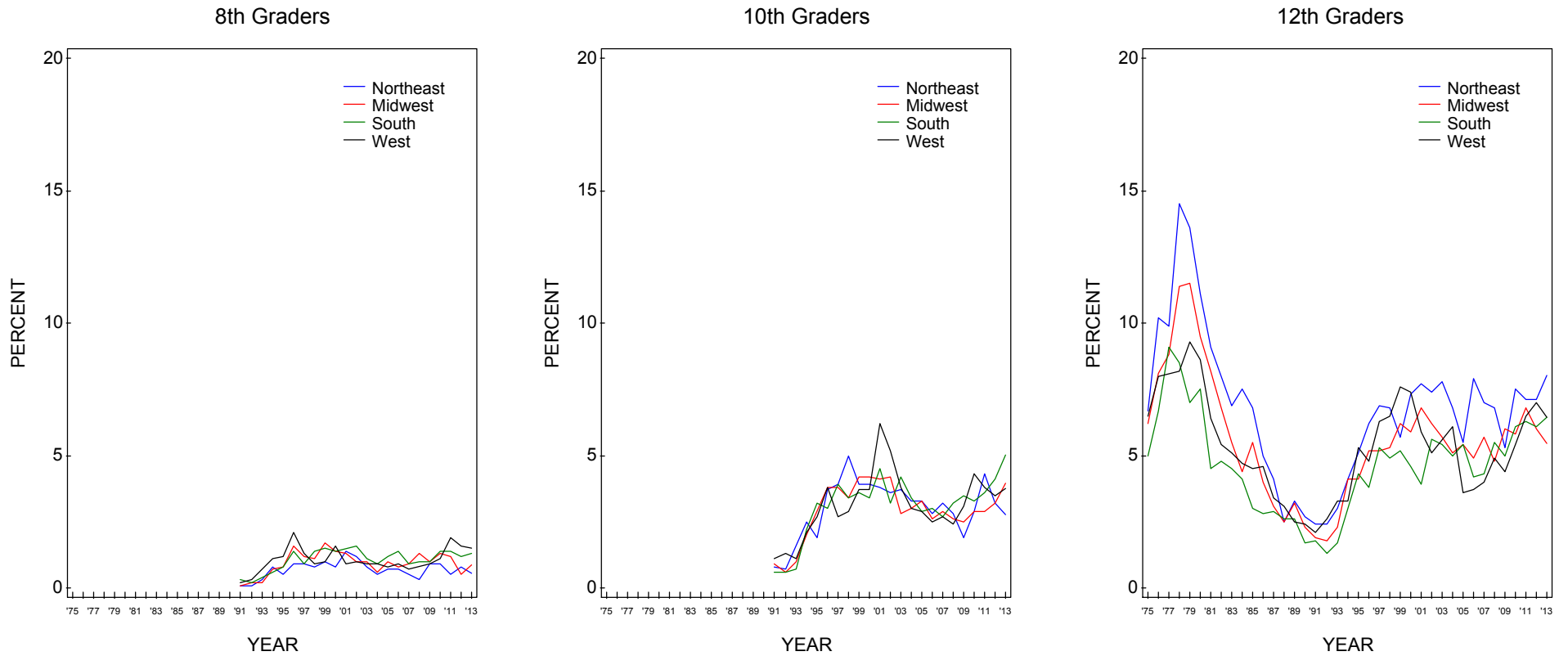
Source. The Monitoring the Future study, the University of Michigan.

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



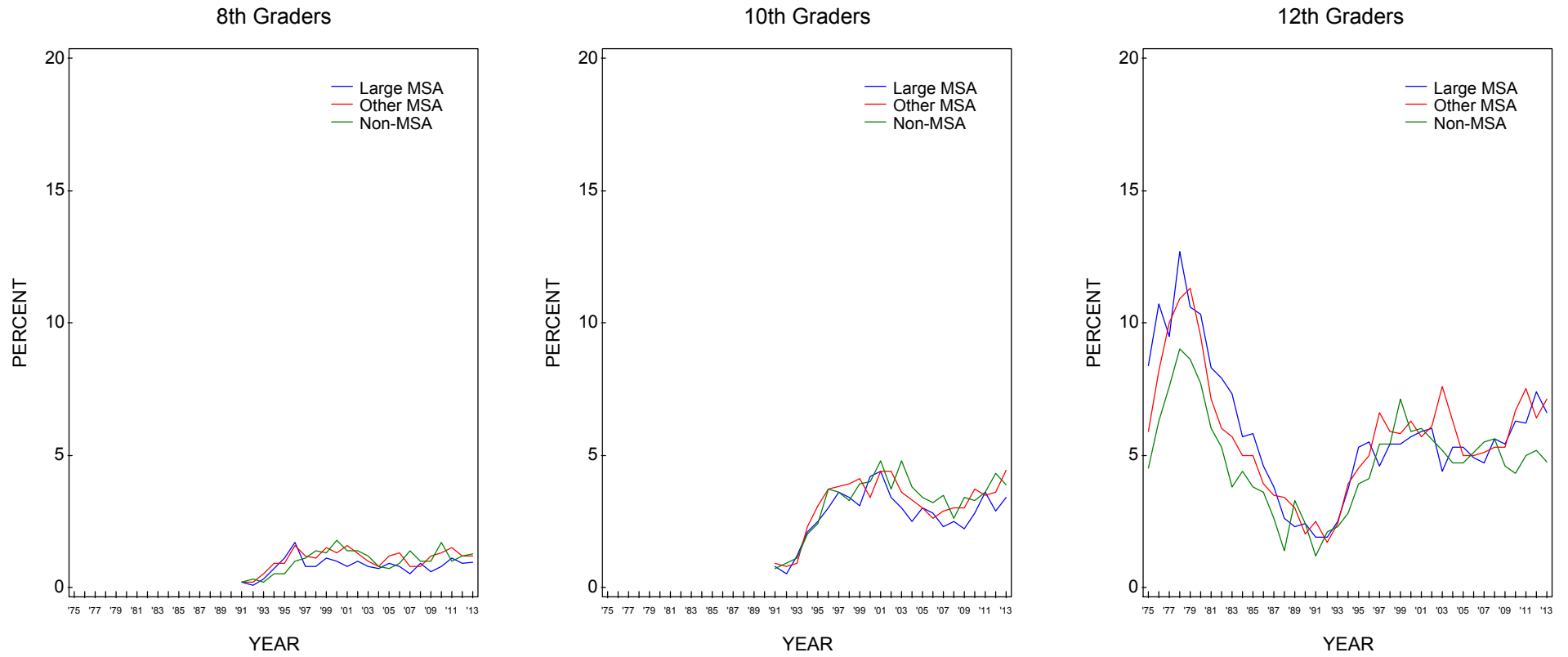
Source. The Monitoring the Future study, the University of Michigan.

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



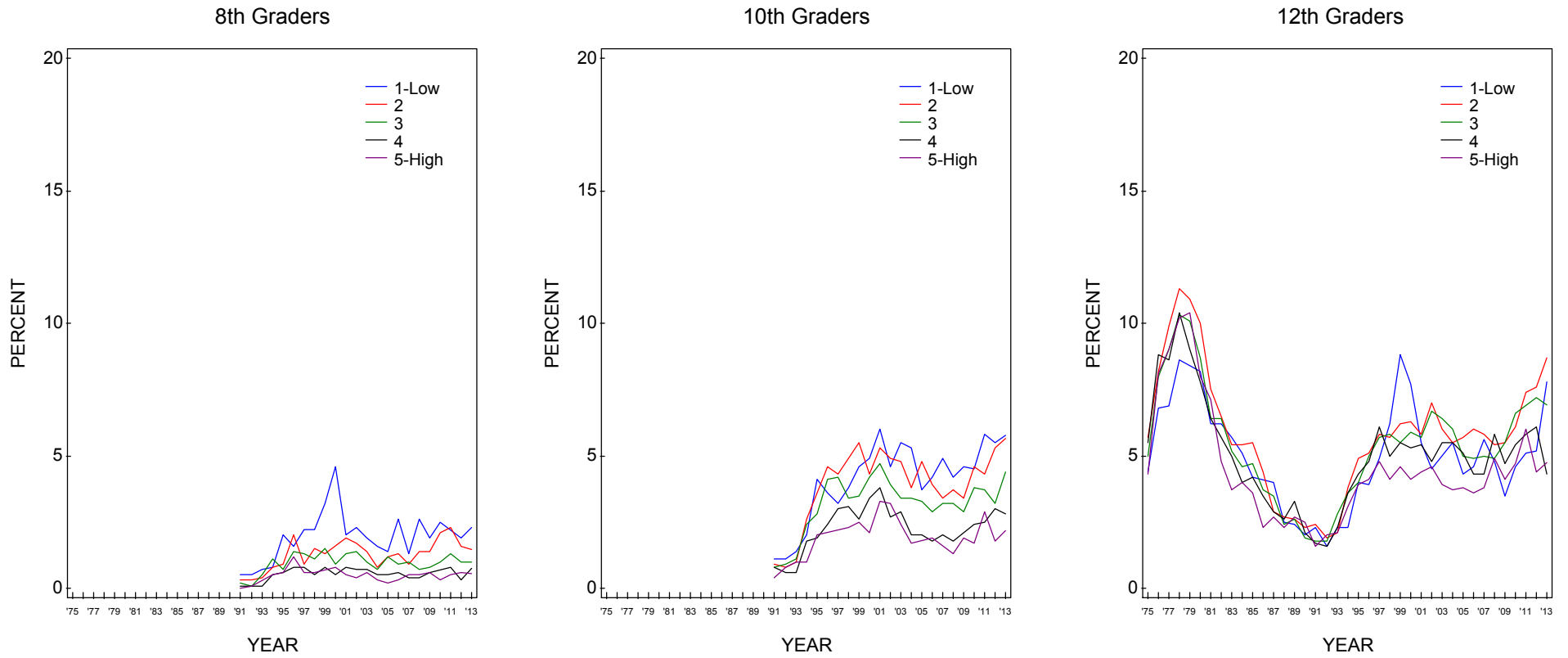
Source. The Monitoring the Future study, the University of Michigan.

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



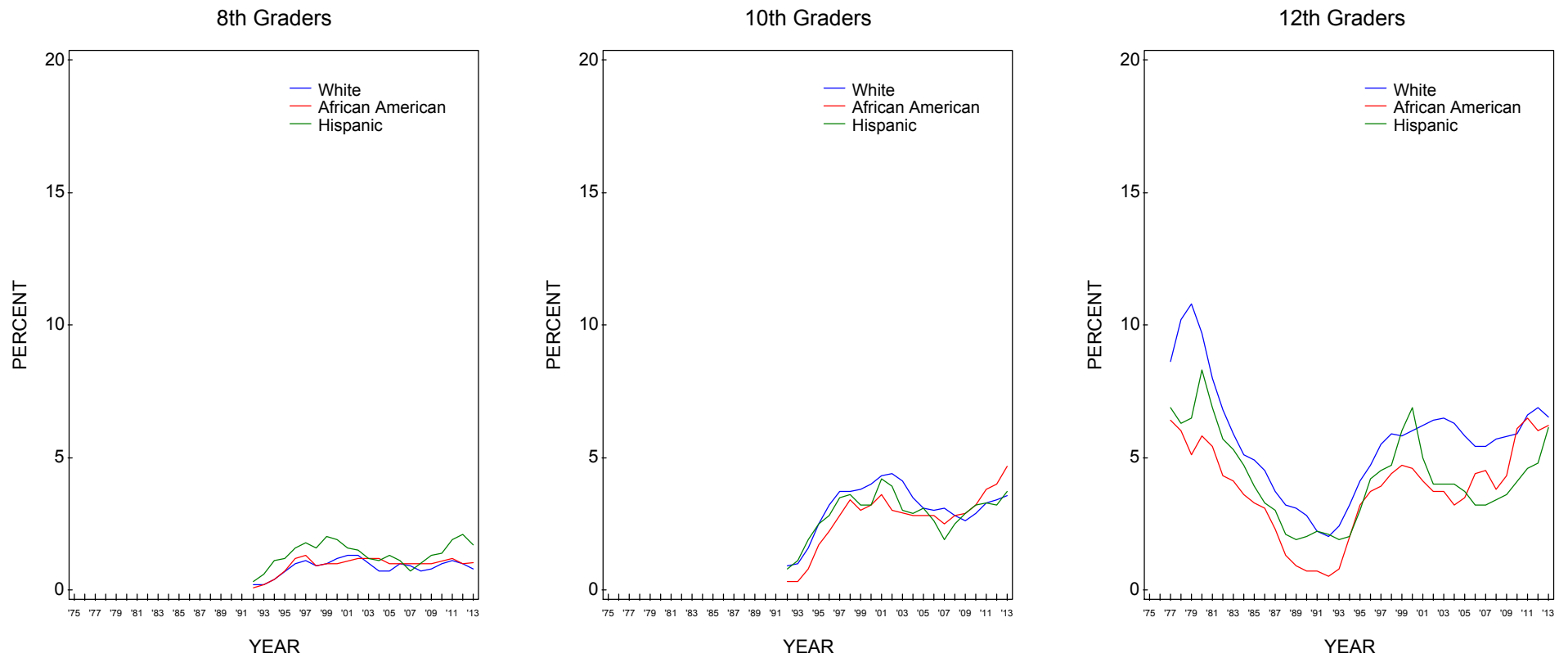
Source. The Monitoring the Future study, the University of Michigan.

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



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

**FIGURE 36**  
**Marijuana: Trends in 30-Day Prevalence of Daily Use by Race/Ethnicity\***

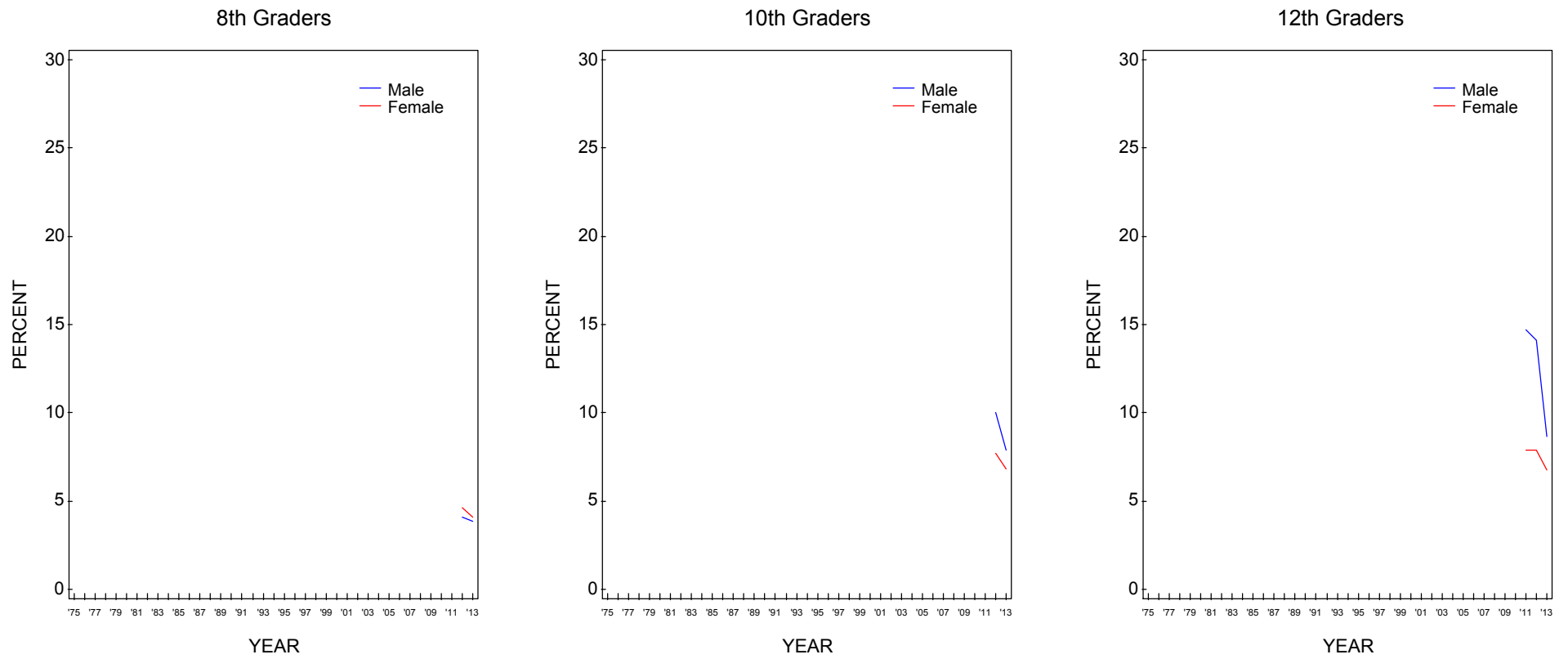


Source. The Monitoring the Future study, the University of Michigan.

\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

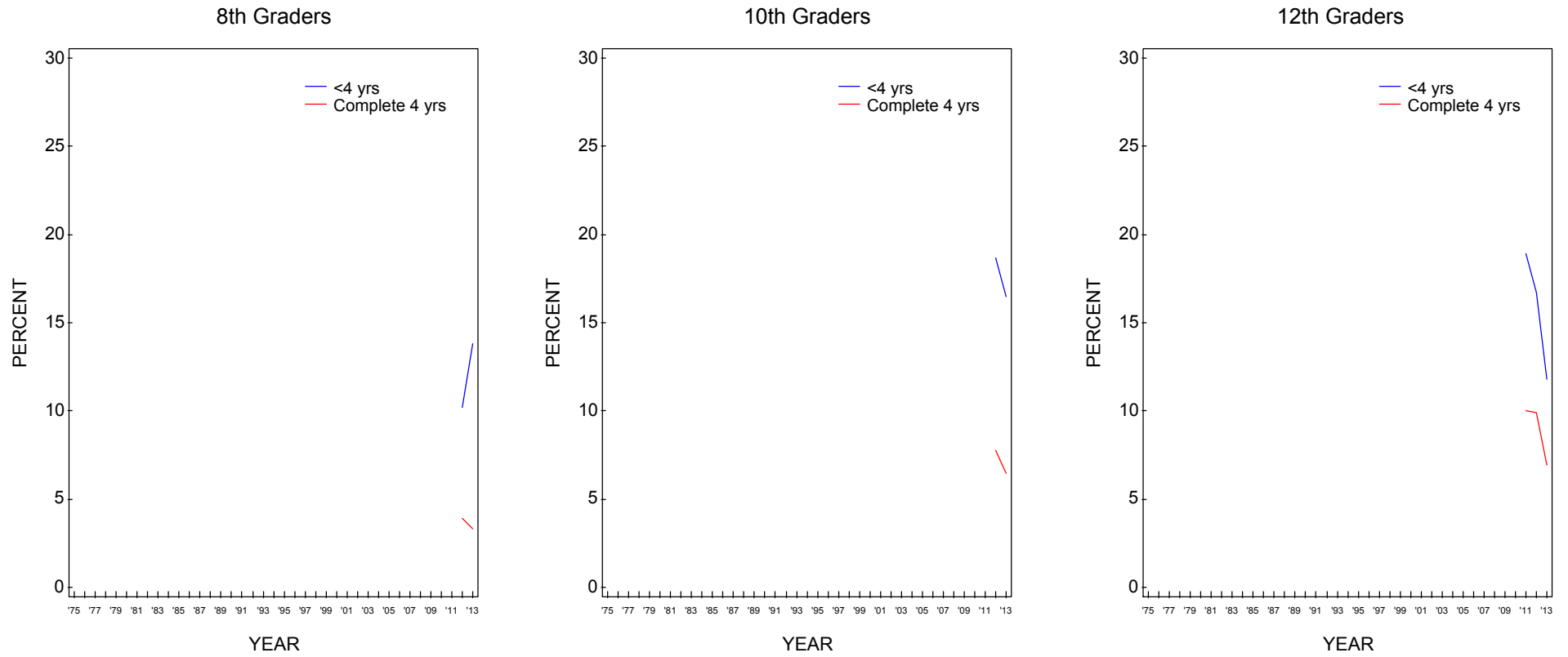


**FIGURE 37**  
**Synthetic Marijuana: Trends in Annual Prevalence by Gender**



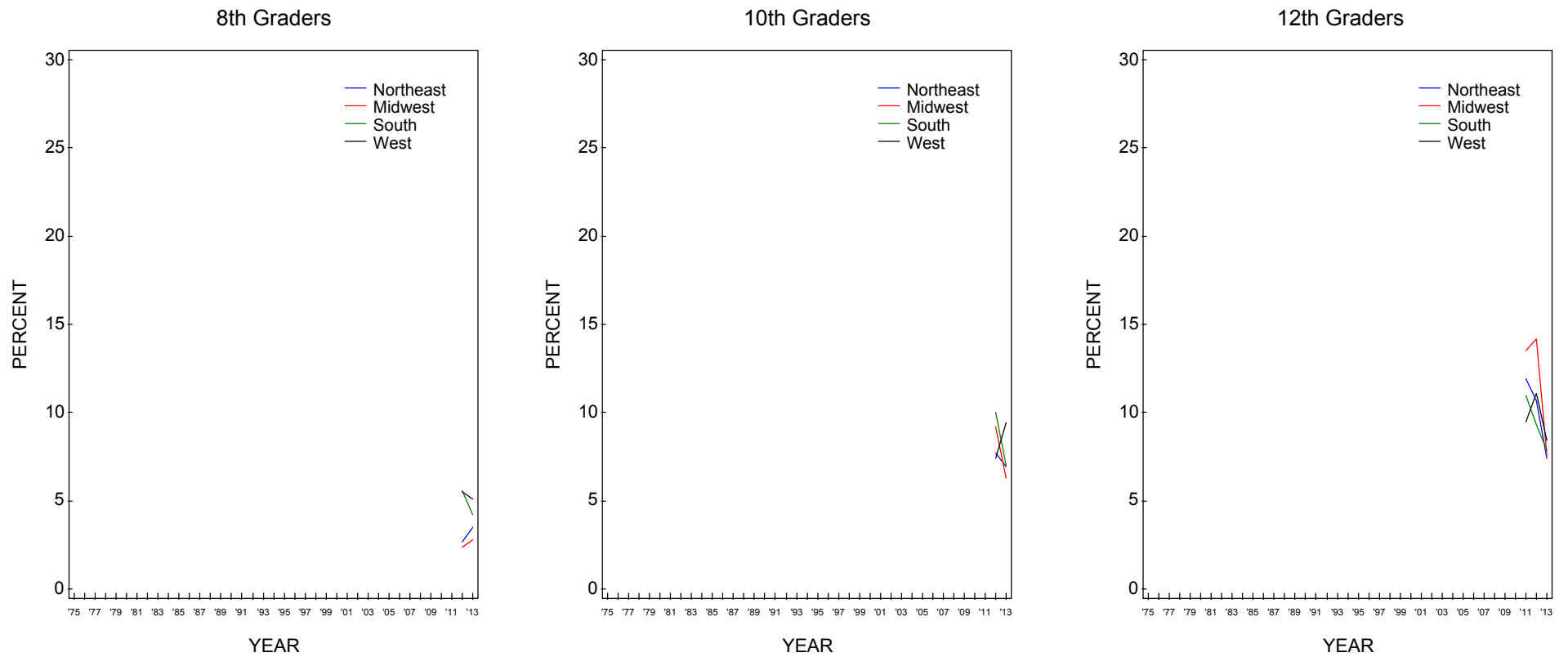
Source. The Monitoring the Future study, the University of Michigan.

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



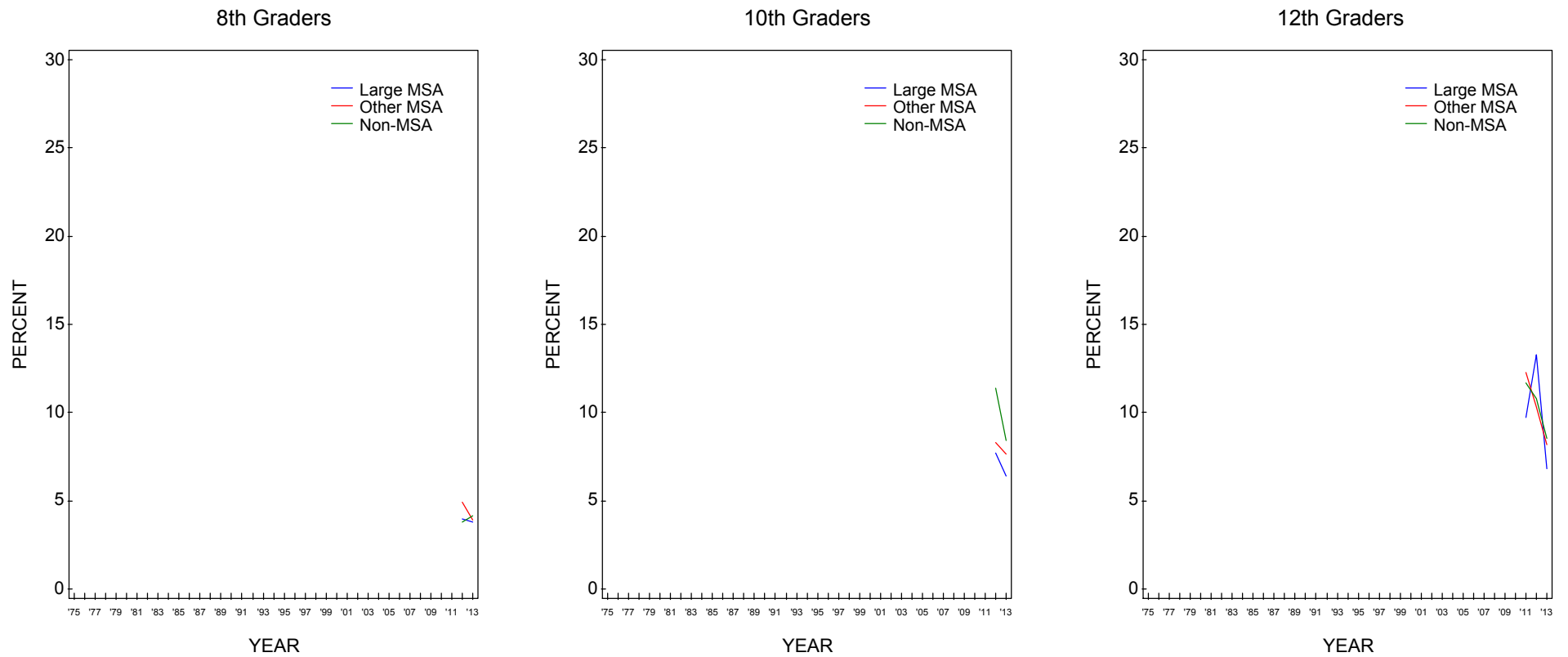
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 39**  
**Synthetic Marijuana: Trends in Annual Prevalence by Region**



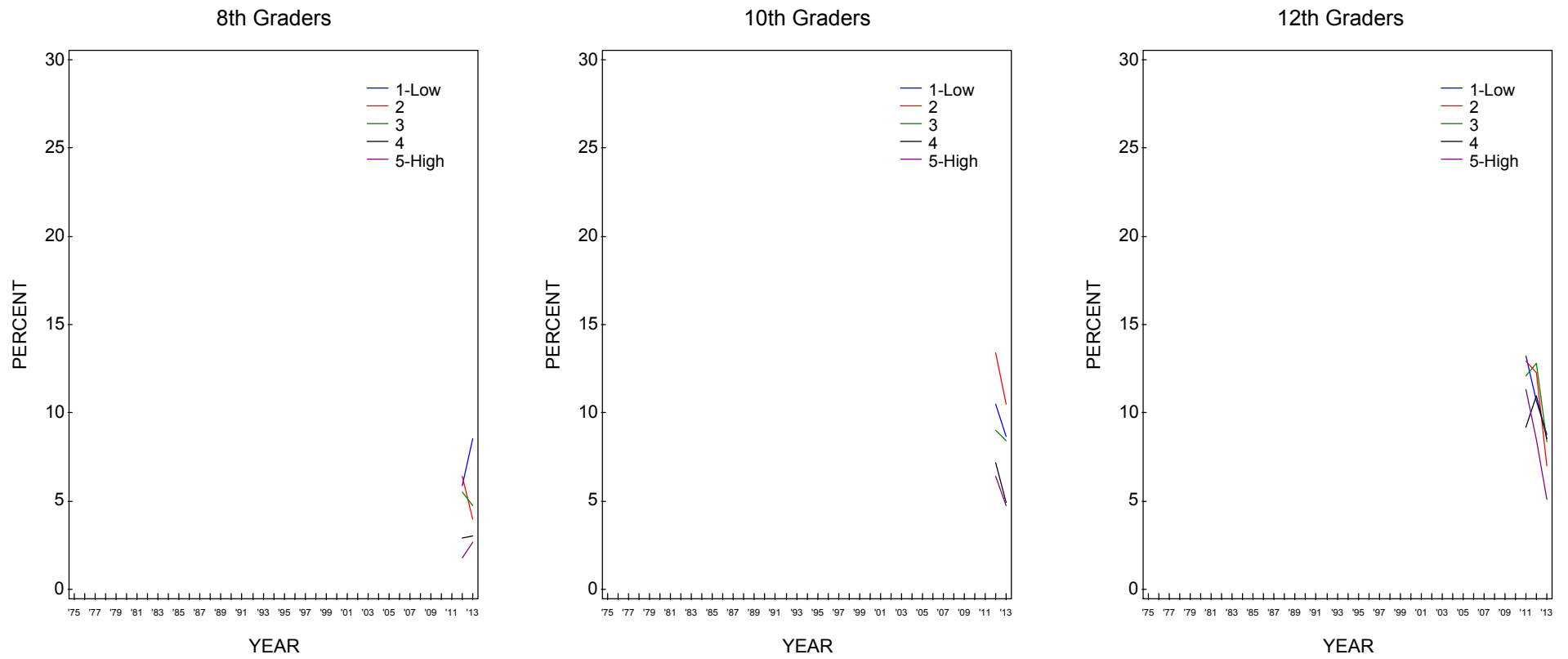
Source. The Monitoring the Future study, the University of Michigan.

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



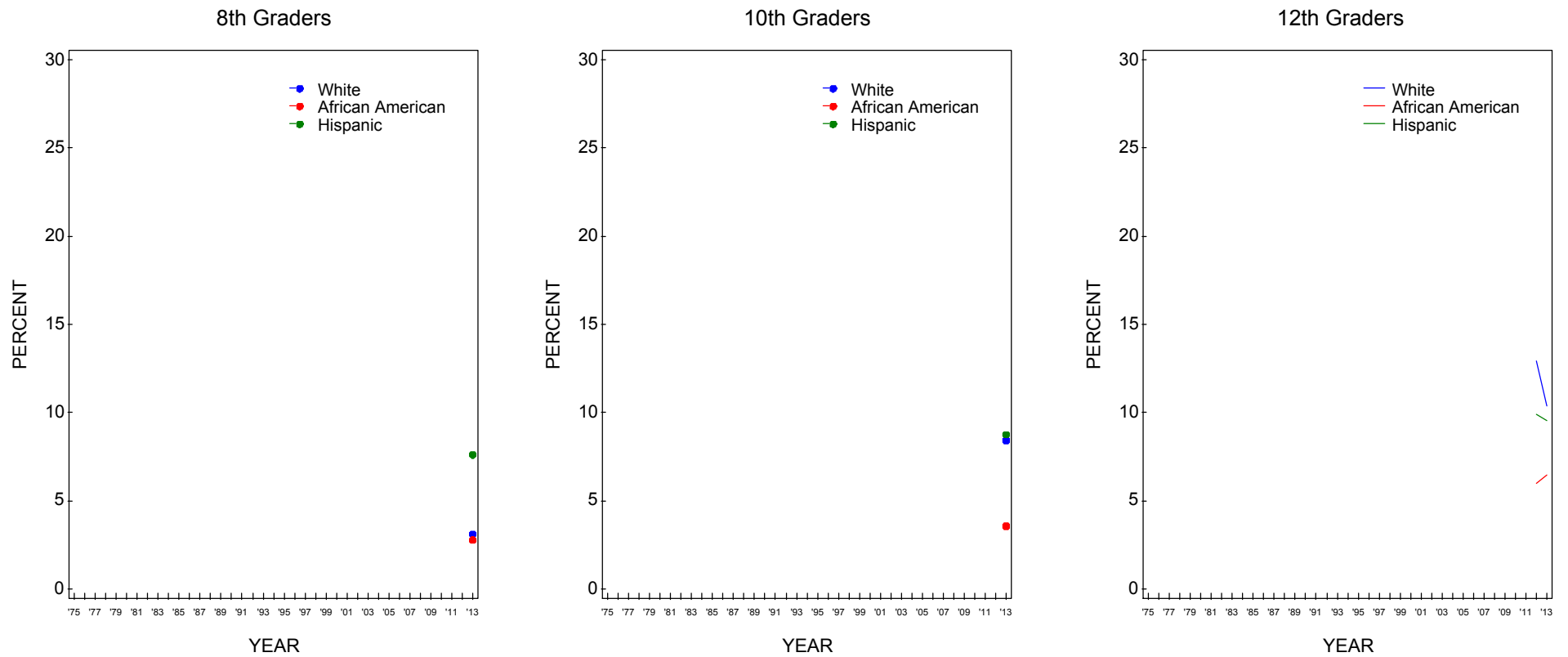
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 41**  
**Synthetic Marijuana: Trends Annual Prevalence by Average Education Level of Parents**



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

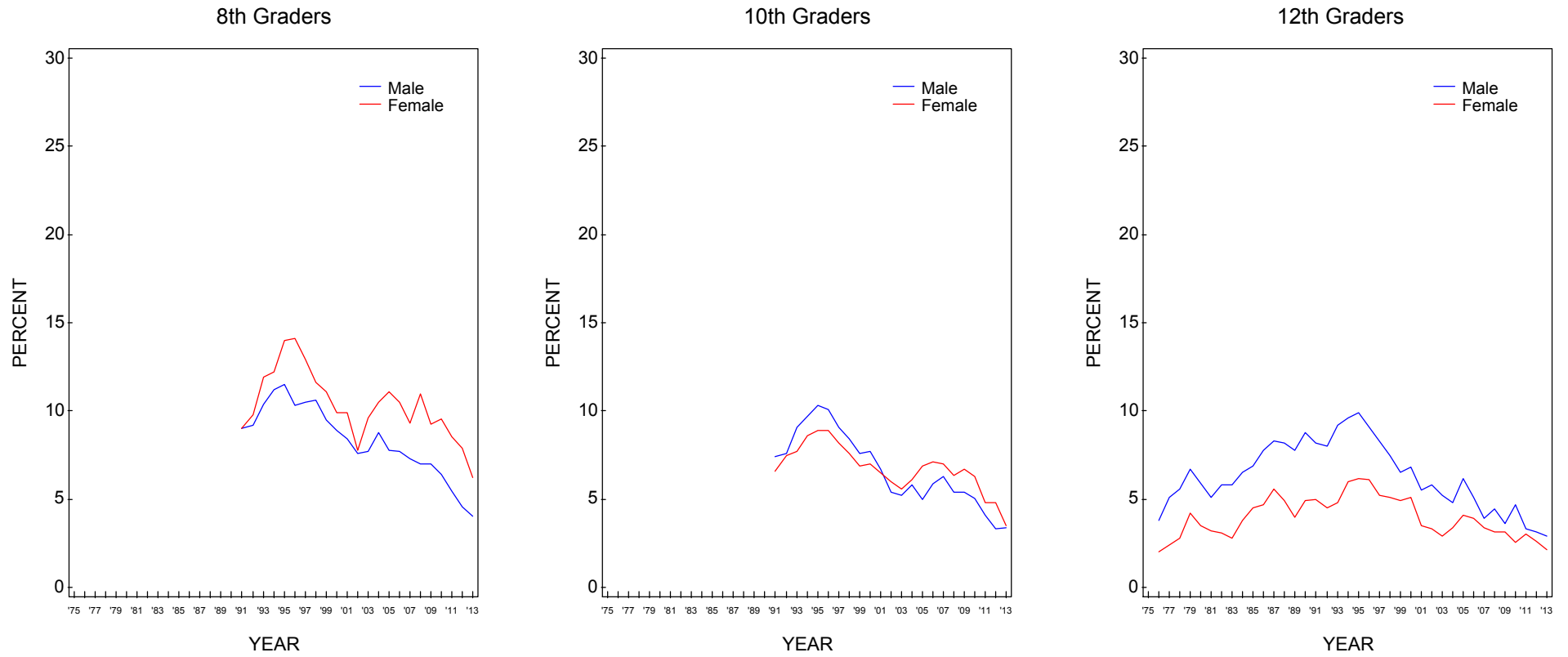
**FIGURE 42**  
**Synthetic Marijuana: Trends in Annual Prevalence by Race/Ethnicity\***



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

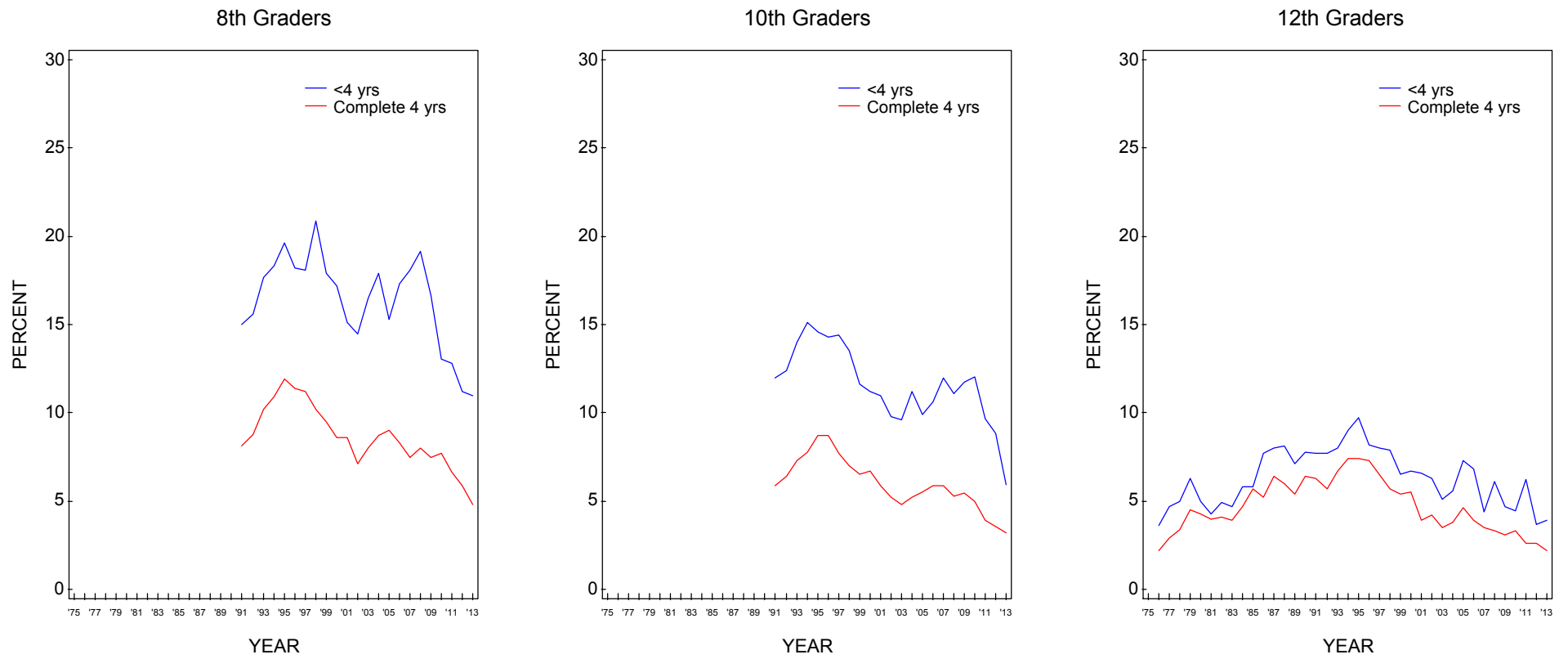
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 43**  
**Inhalants: Trends in Annual Prevalence by Gender**



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

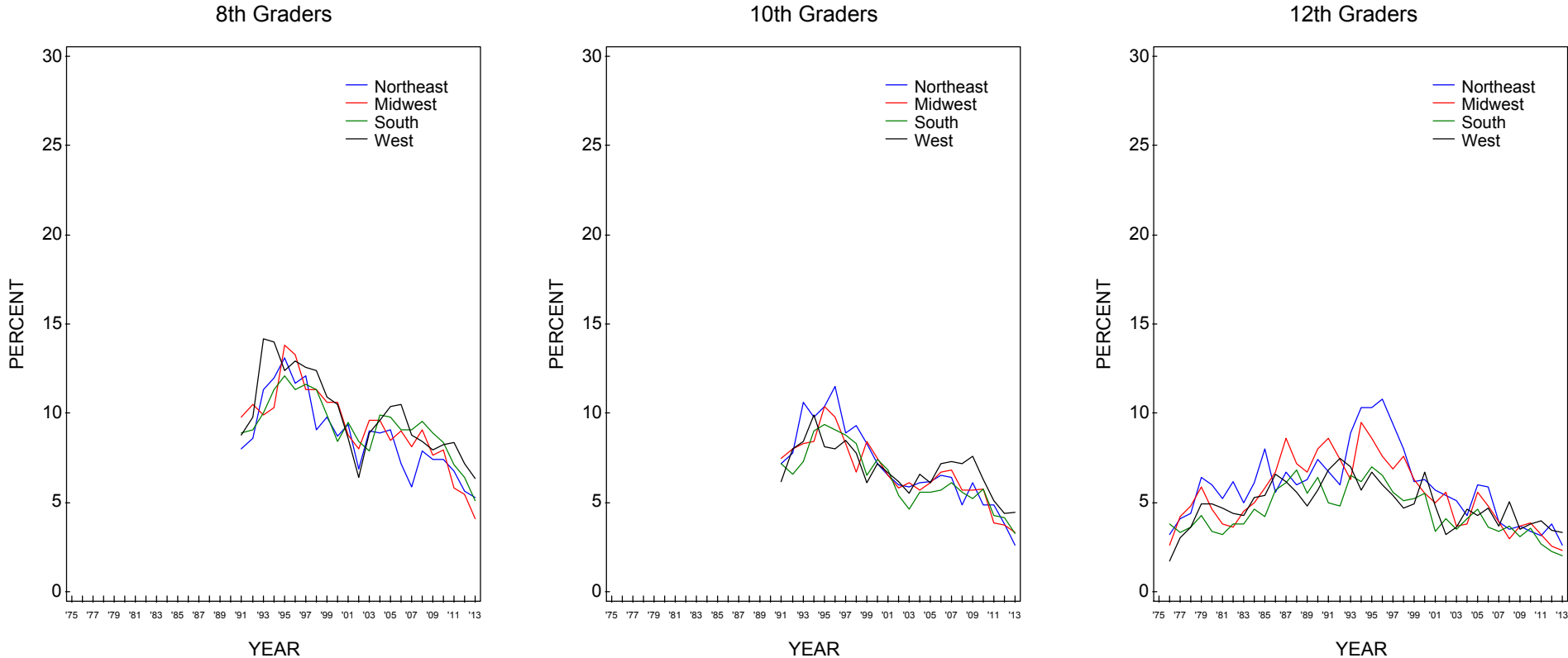
**FIGURE 44**  
**Inhalants: Trends in Annual Prevalence by College Plans**



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

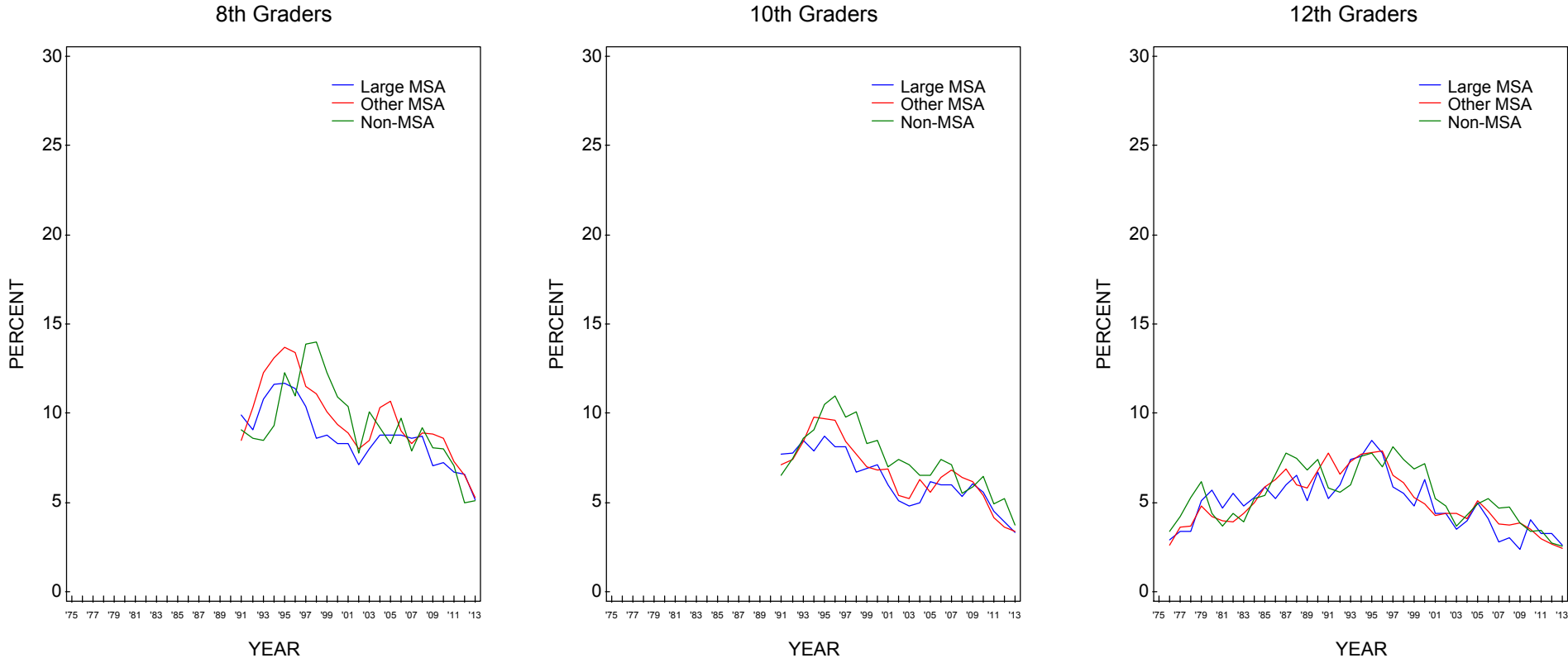


**FIGURE 45**  
**Inhalants: Trends in Annual Prevalence by Region**



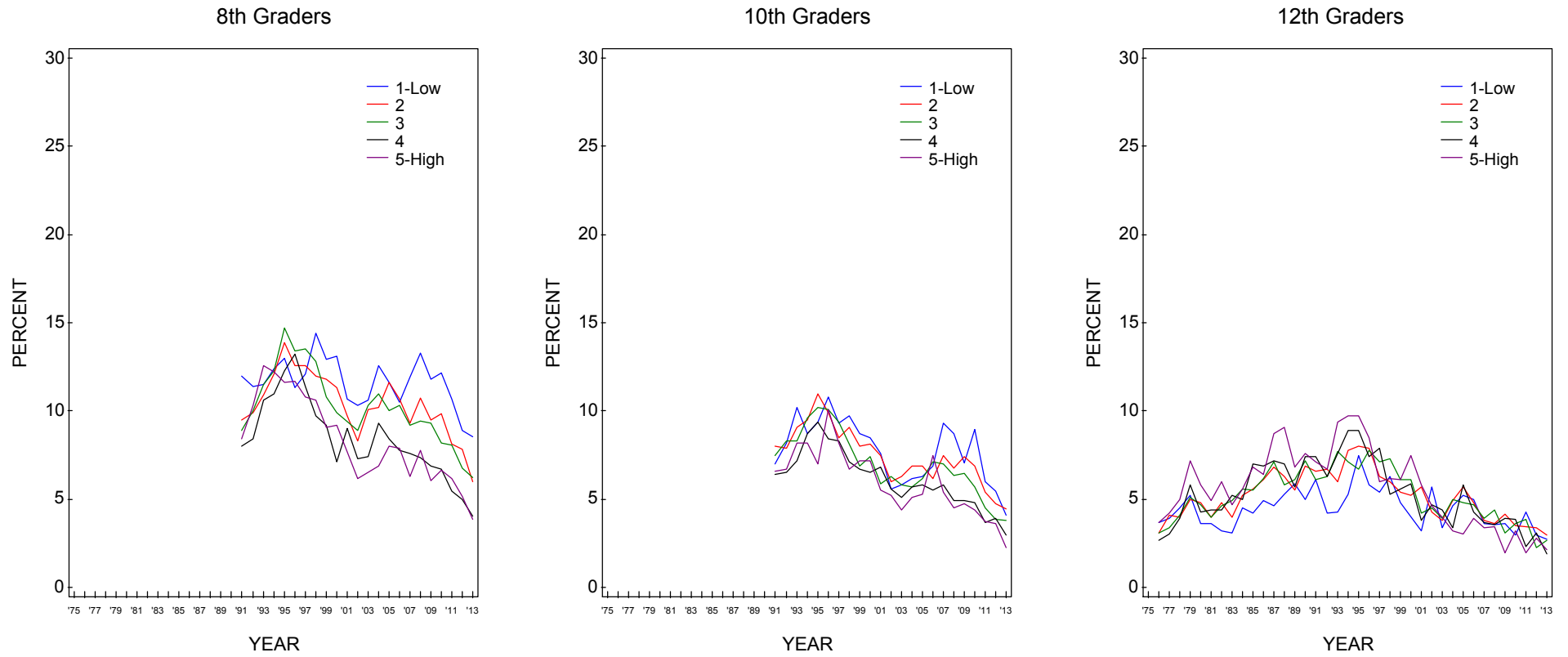
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 46**  
**Inhalants: Trends in Annual Prevalence by Population Density**



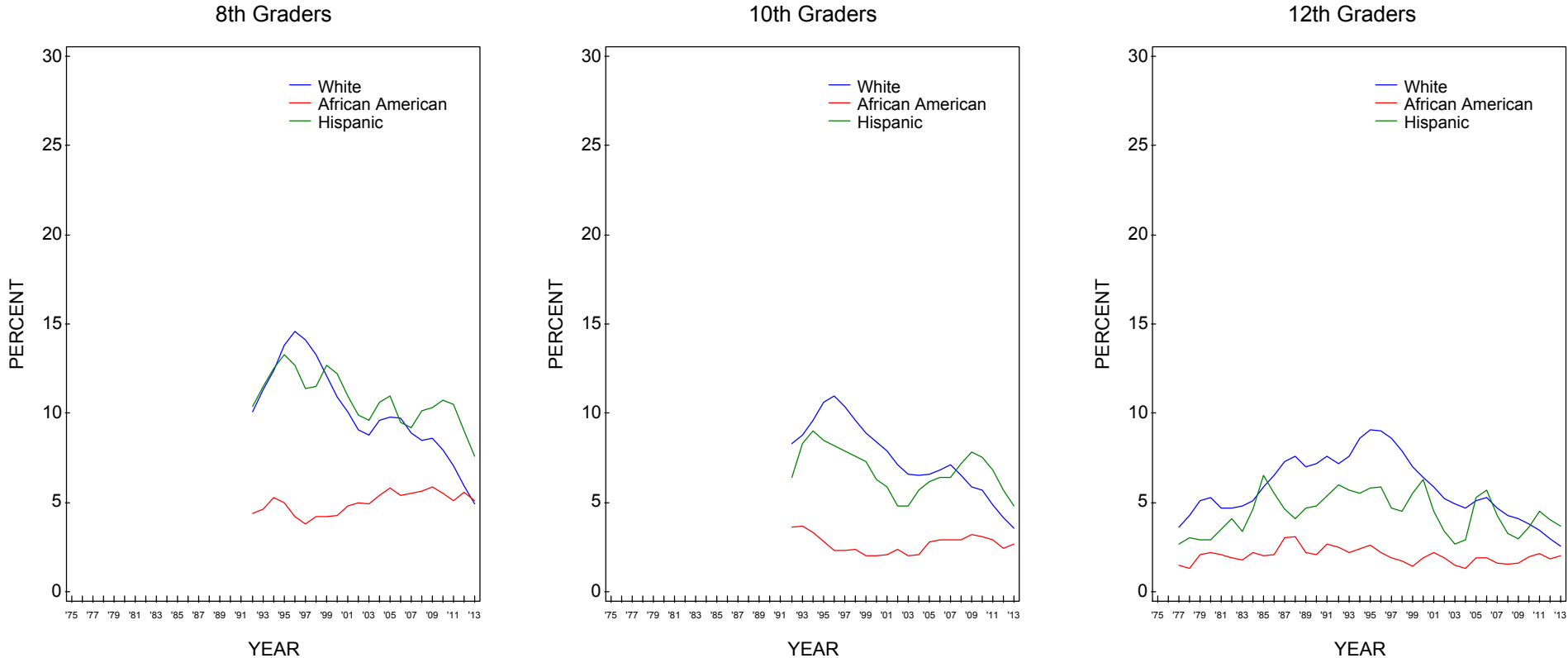
Source. The Monitoring the Future study, the University of Michigan.

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



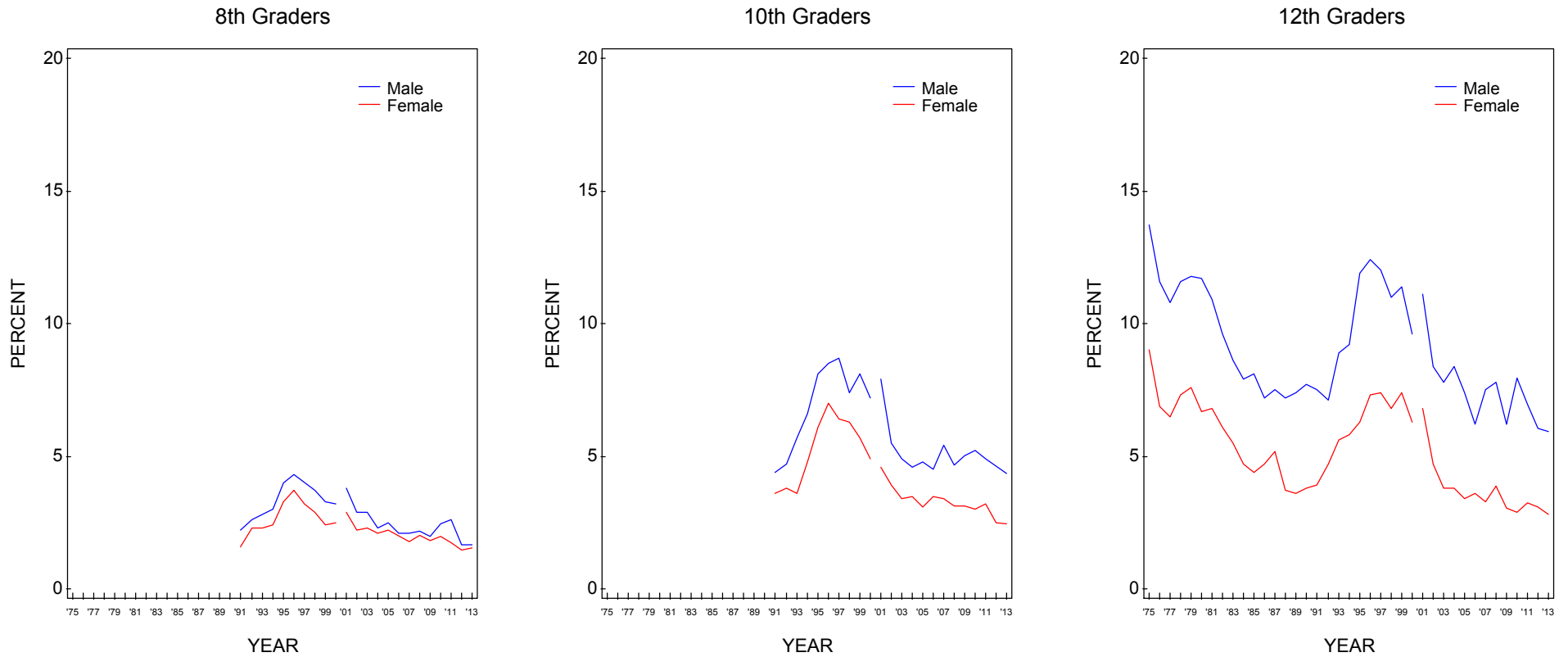
Source. The Monitoring the Future study, the University of Michigan.

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



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

**FIGURE 49**  
**Hallucinogens:\* Trends in Annual Prevalence by Gender**

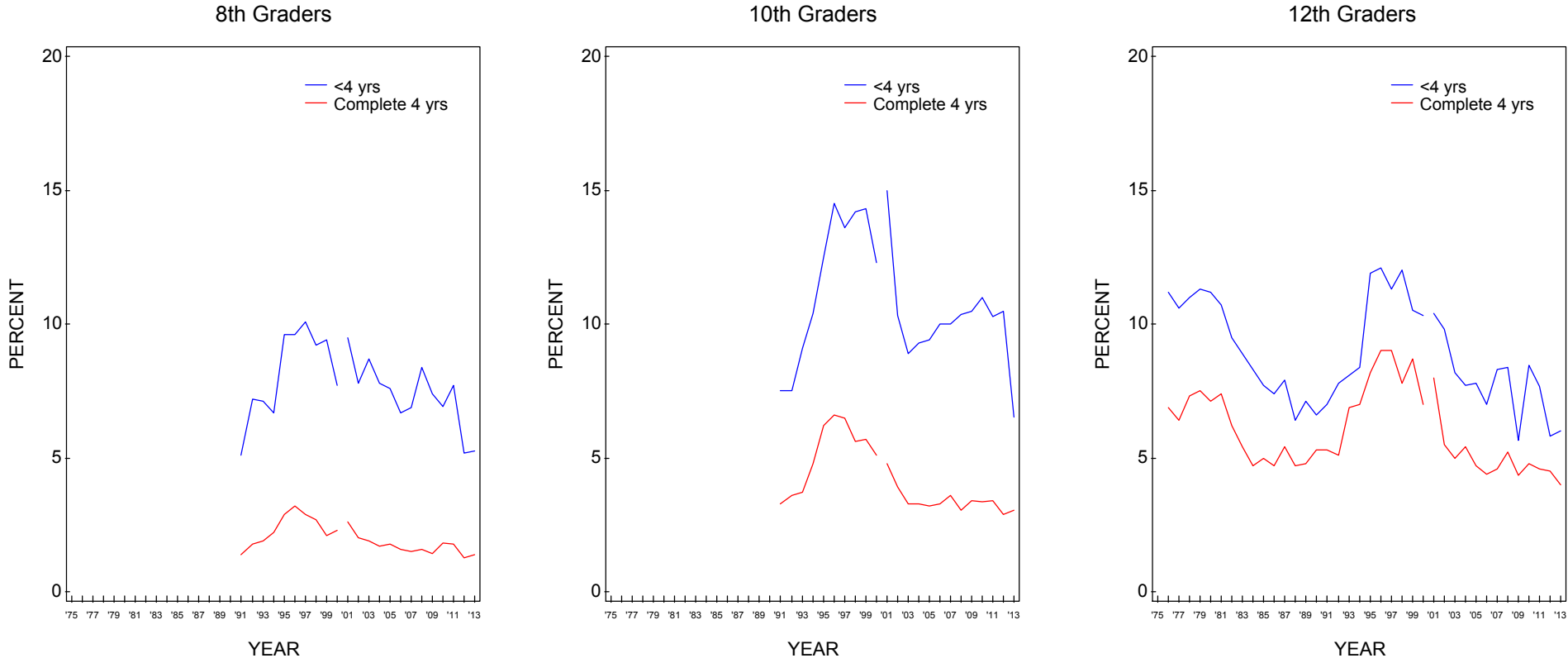


Source. The Monitoring the Future study, the University of Michigan.

\*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Data for hallucinogens are affected by these changes.

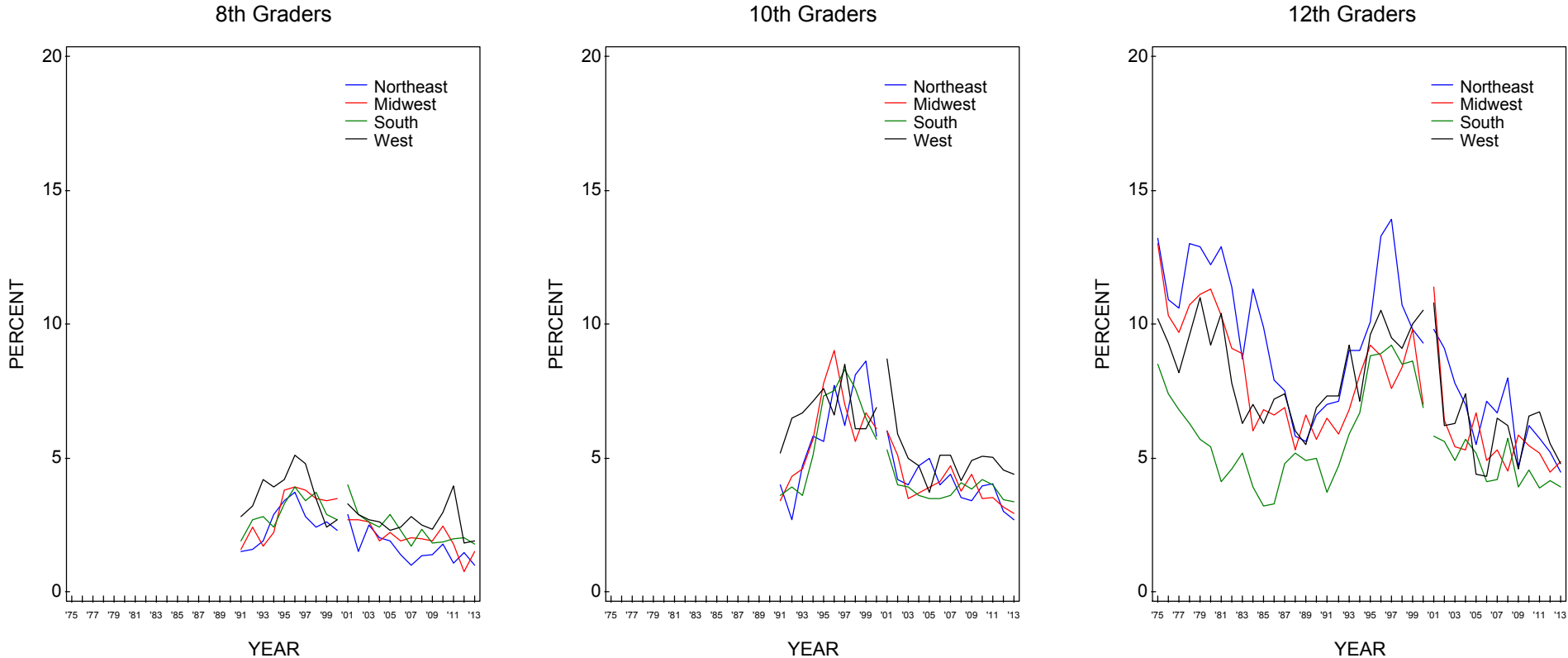
Refer to corresponding tables for further details.

**FIGURE 50**  
**Hallucinogens:\* Trends in Annual Prevalence by College Plans**



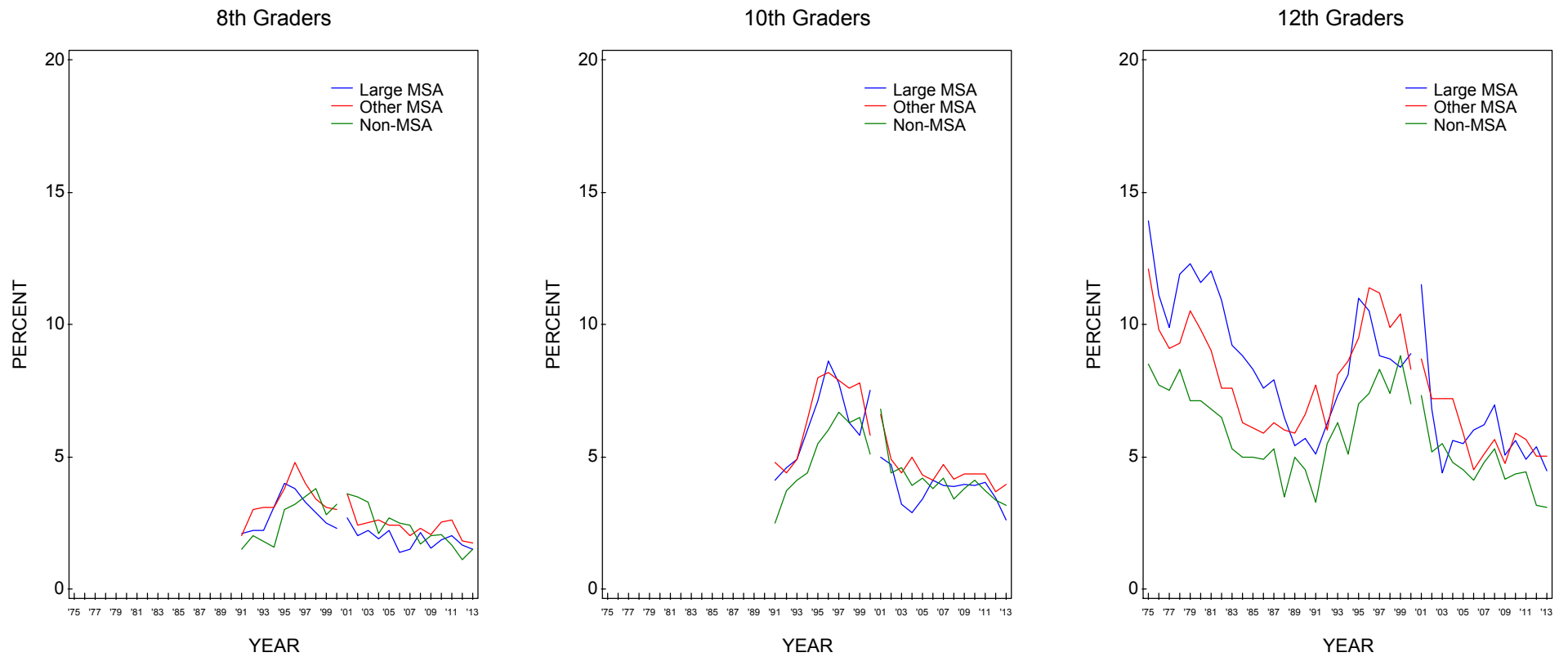
Source. The Monitoring the Future study, the University of Michigan.  
 \*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Data for hallucinogens are affected by these changes. Refer to corresponding tables for further details.

**FIGURE 51**  
**Hallucinogens:\* Trends in Annual Prevalence by Region**



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

**FIGURE 52**  
**Hallucinogens:\* Trends in Annual Prevalence by Population Density**



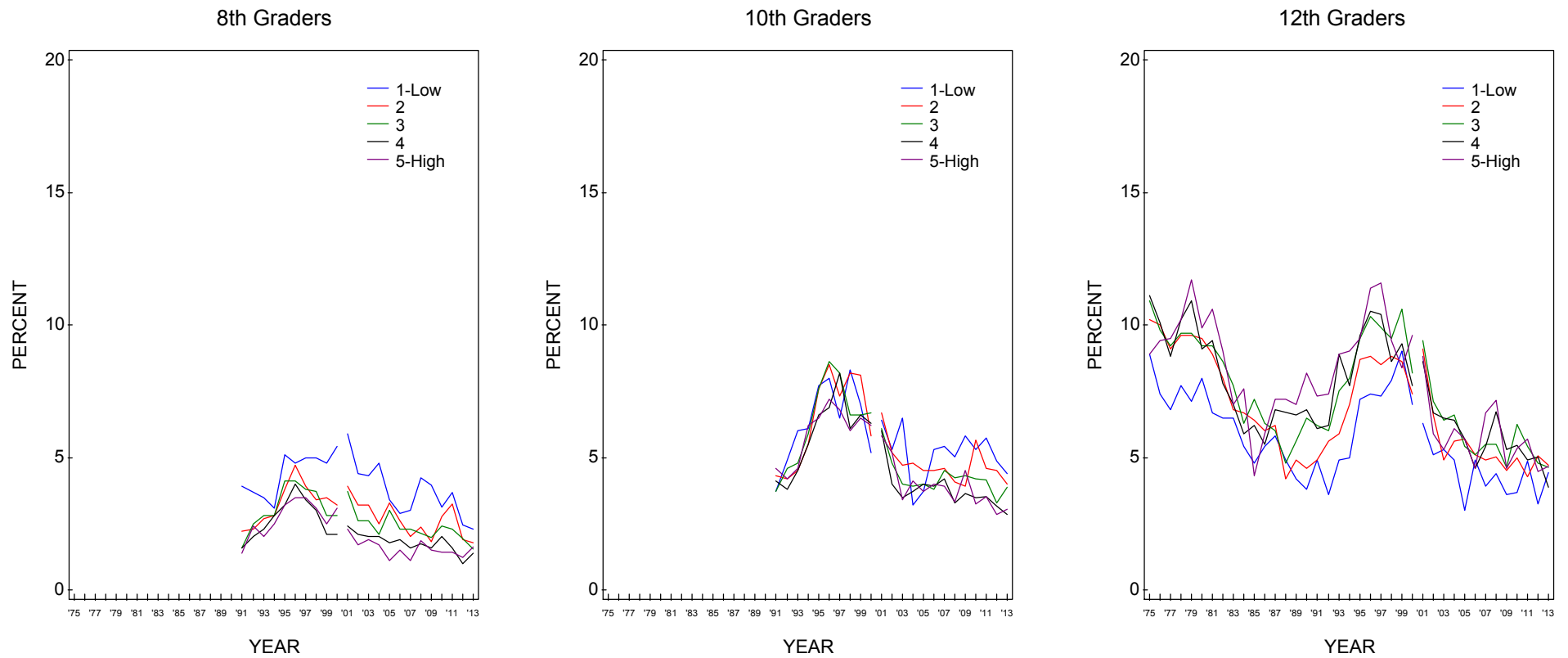
Source. The Monitoring the Future study, the University of Michigan.

\*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Data for hallucinogens are affected by these changes.

Refer to corresponding tables for further details.



**FIGURE 53**  
**Hallucinogens:\* Trends in Annual Prevalence by Average Education Level of Parents**

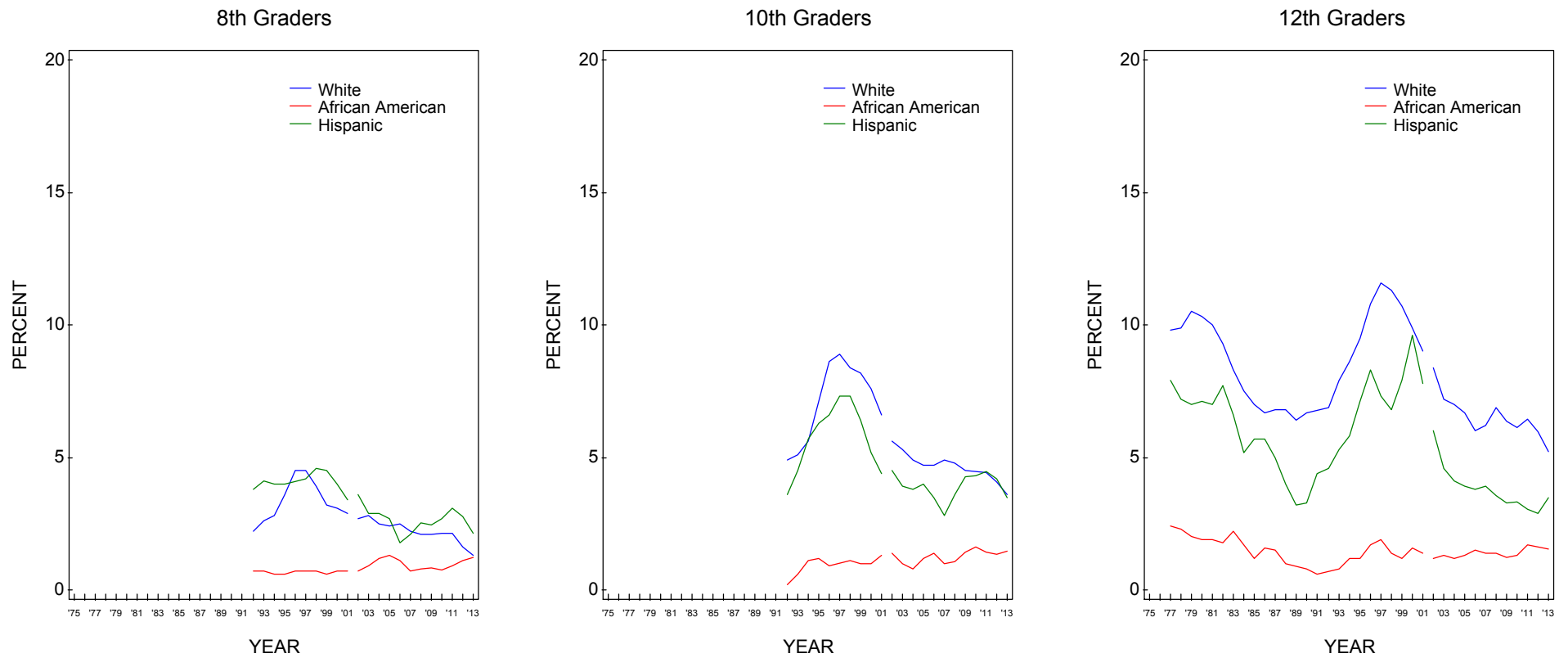


Source. The Monitoring the Future study, the University of Michigan.

\*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Data for hallucinogens are affected by these changes.

Refer to corresponding tables for further details.

**FIGURE 54**  
**Hallucinogens:\* Trends in Annual Prevalence by Race/Ethnicity\*\***



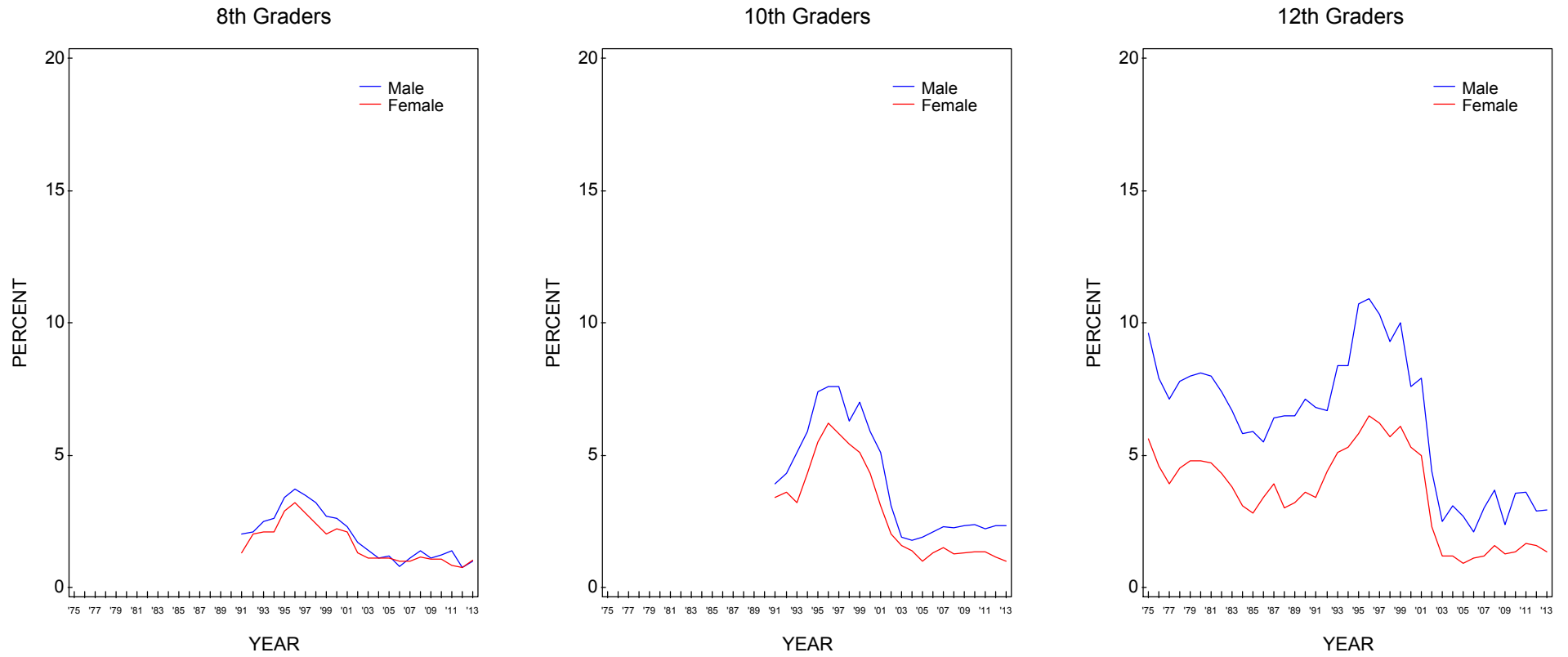
Source. The Monitoring the Future study, the University of Michigan.

\*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Data for hallucinogens are affected by these changes.

Refer to corresponding tables for further details.

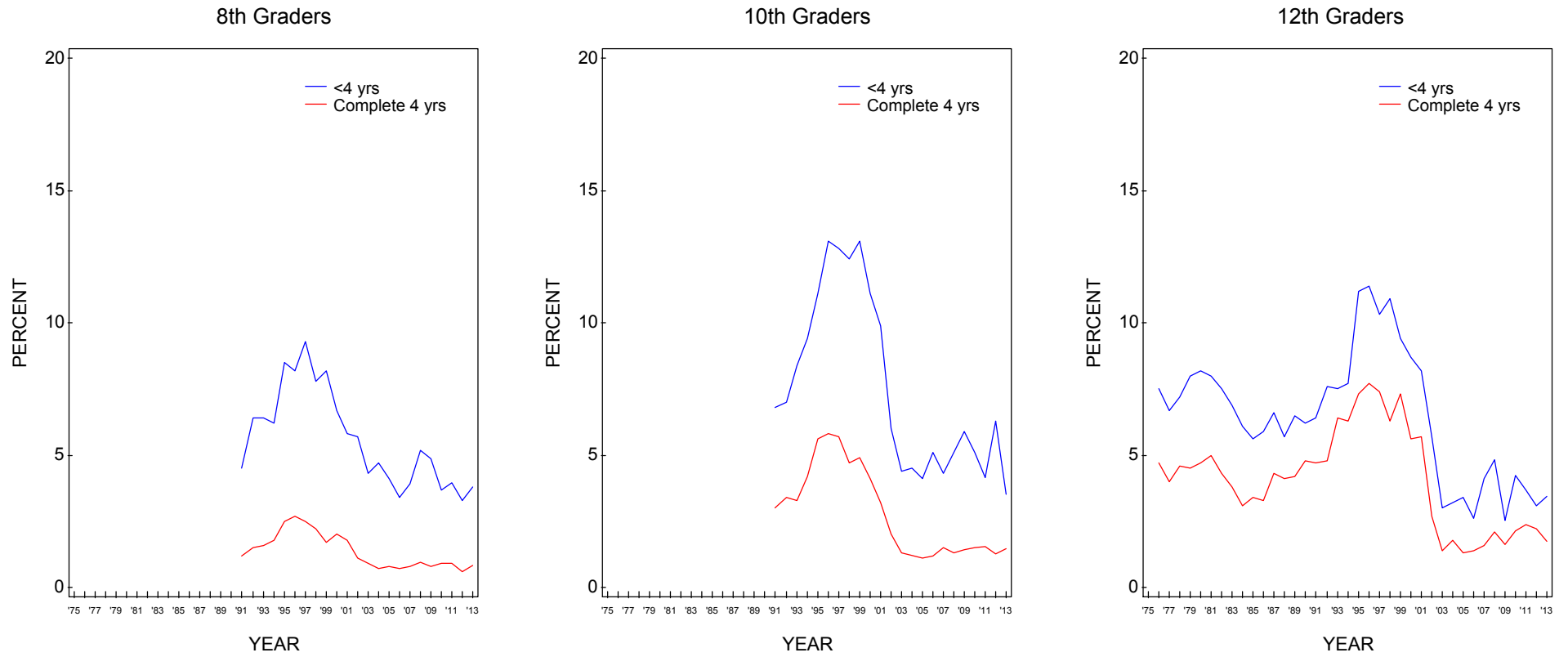
\*\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 55**  
**LSD: Trends in Annual Prevalence by Gender**



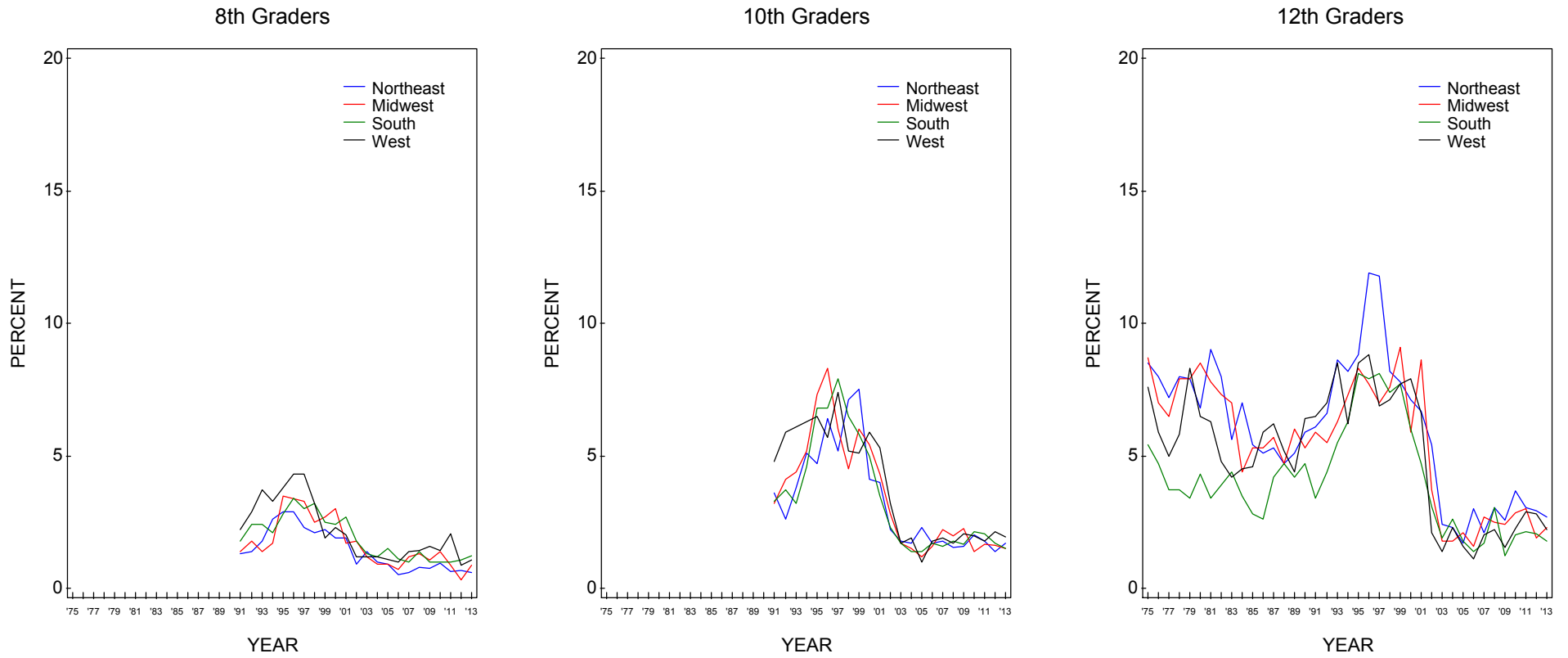
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 56**  
**LSD: Trends in Annual Prevalence by College Plans**



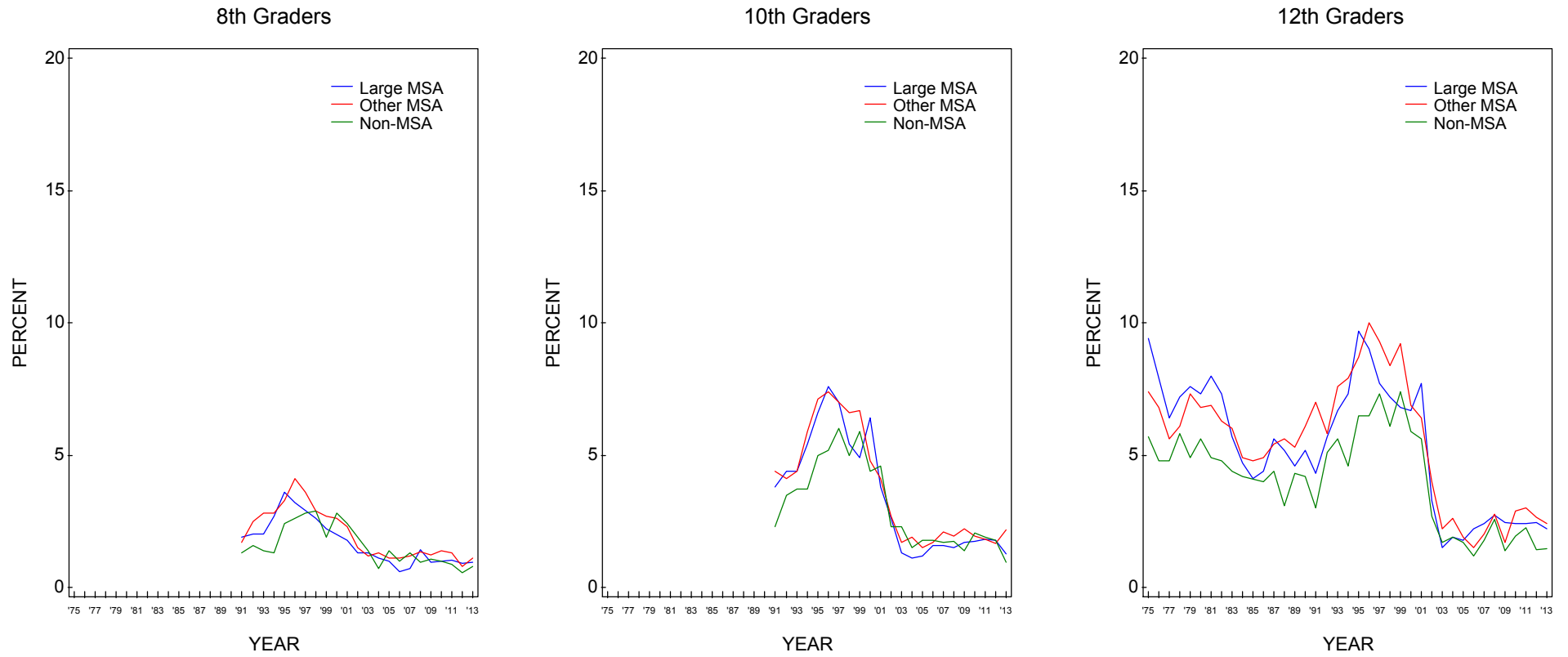
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 57**  
**LSD: Trends in Annual Prevalence by Region**



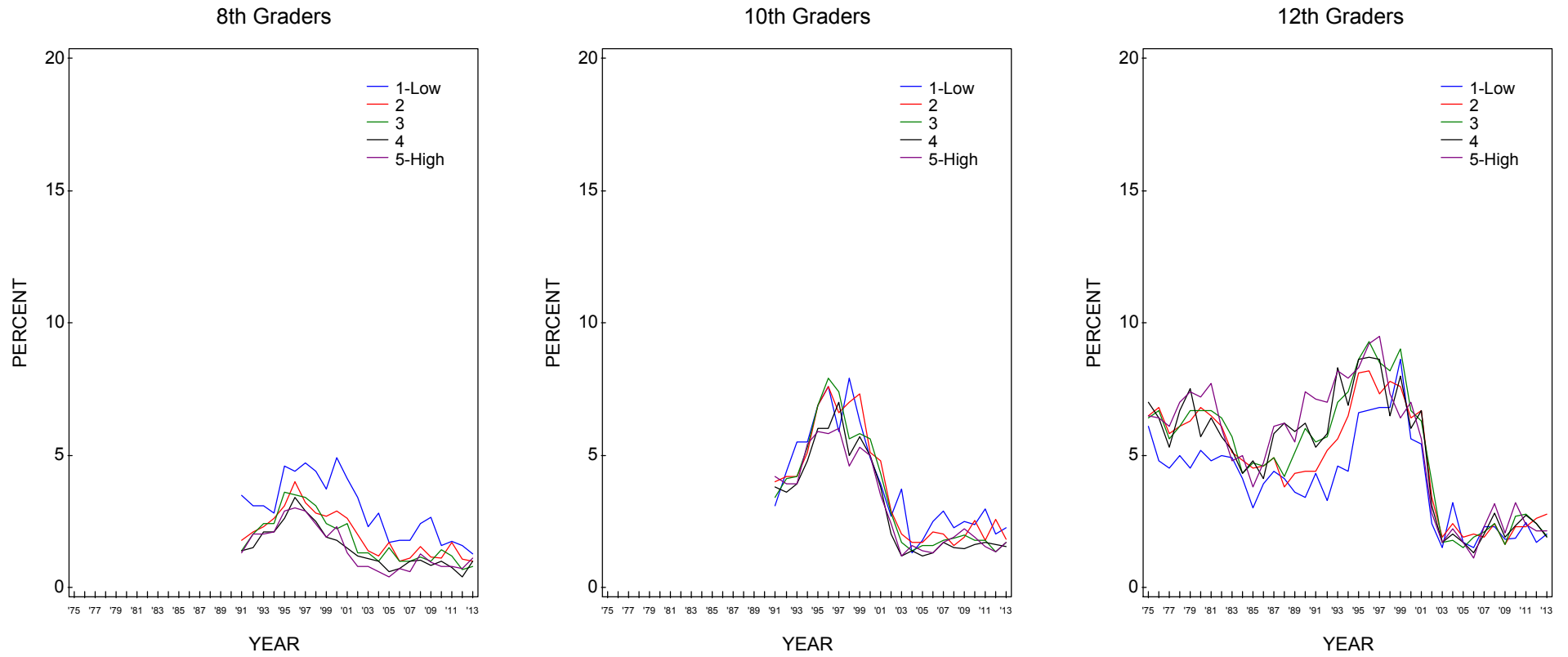
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 58**  
**LSD: Trends in Annual Prevalence by Population Density**



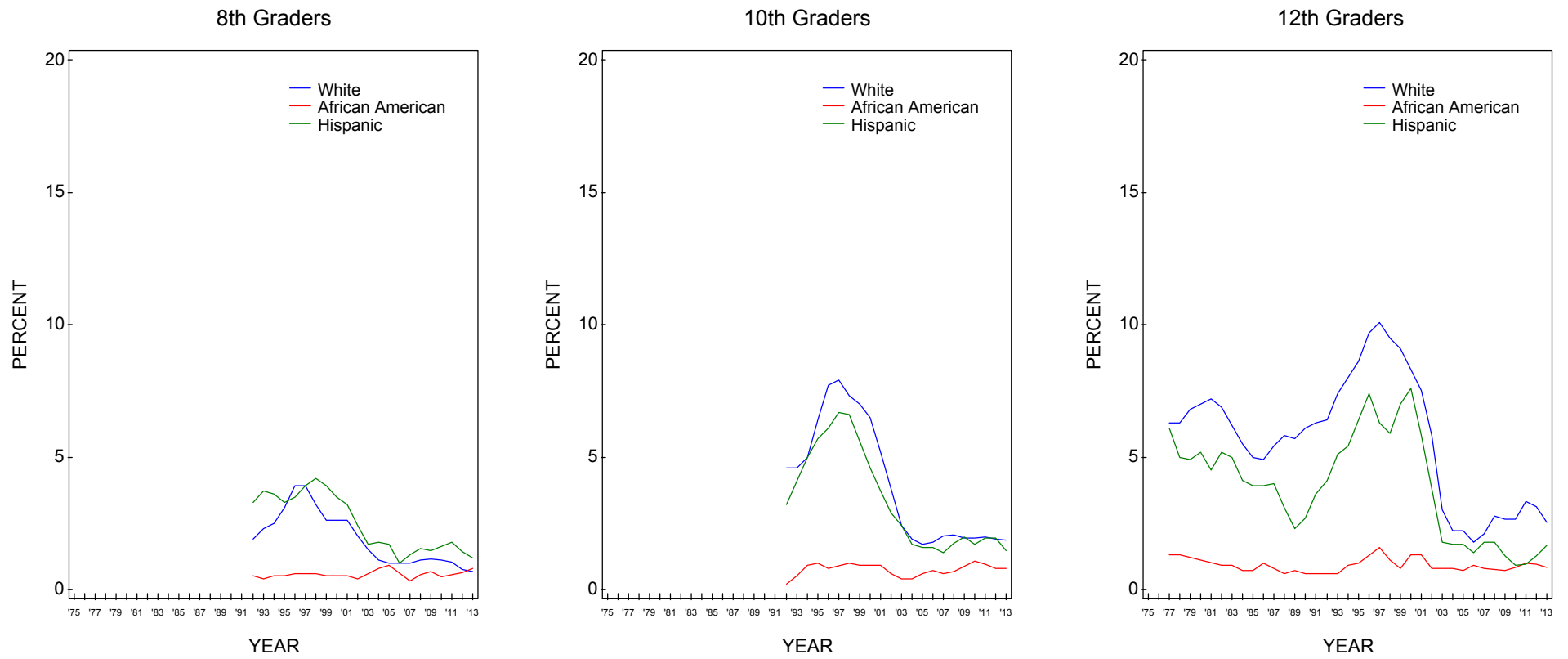
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 59**  
**LSD: Trends in Annual Prevalence by Average Education Level of Parents**



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

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

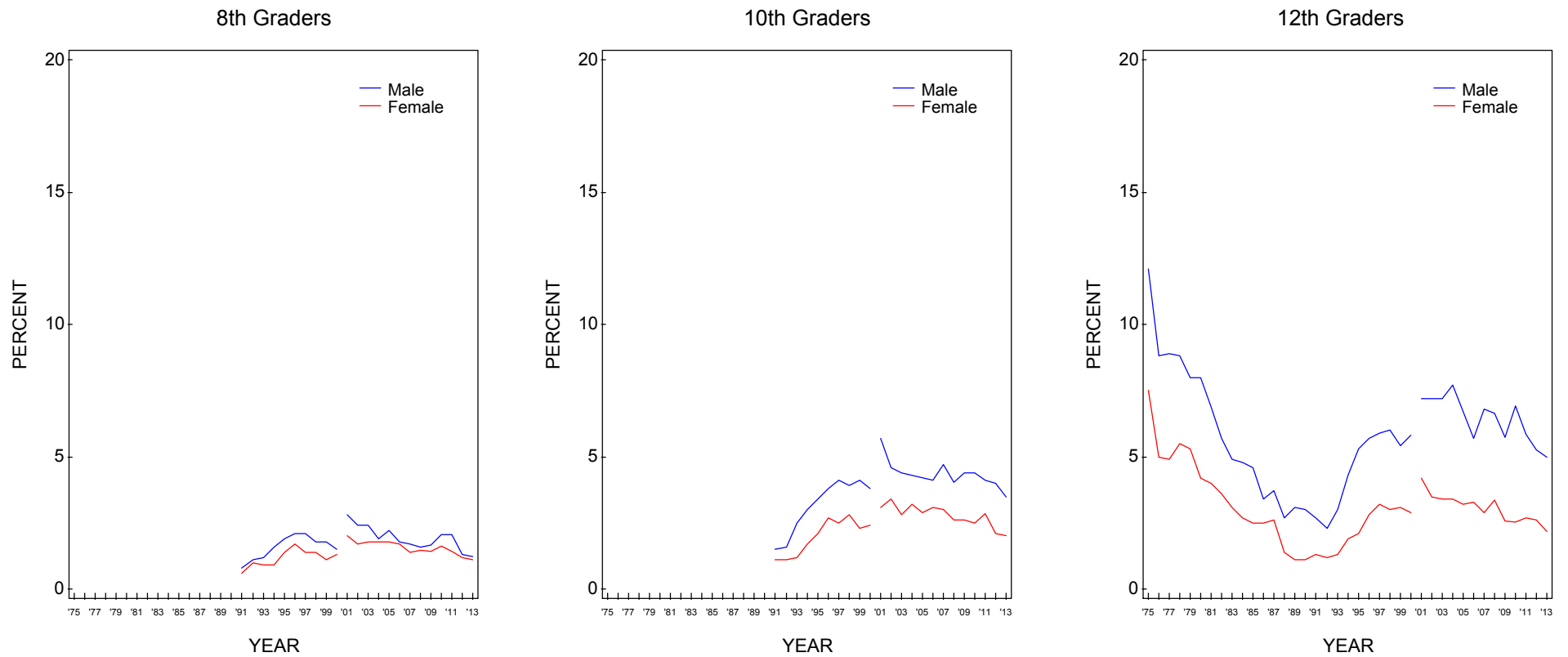


Source. The Monitoring the Future study, the University of Michigan.

\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.



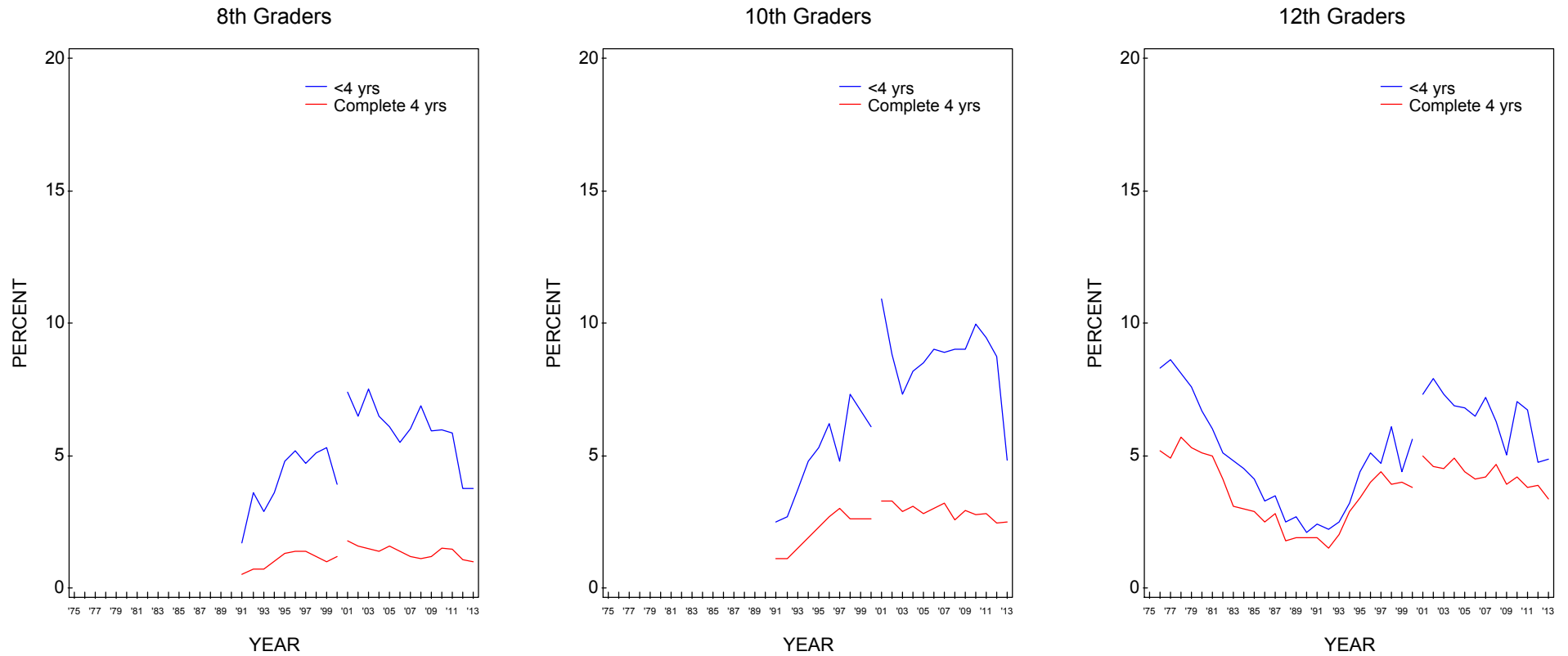
**FIGURE 61**  
**Hallucinogens other than LSD:\* Trends in Annual Prevalence by Gender**



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

\*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Refer to corresponding tables for further details.

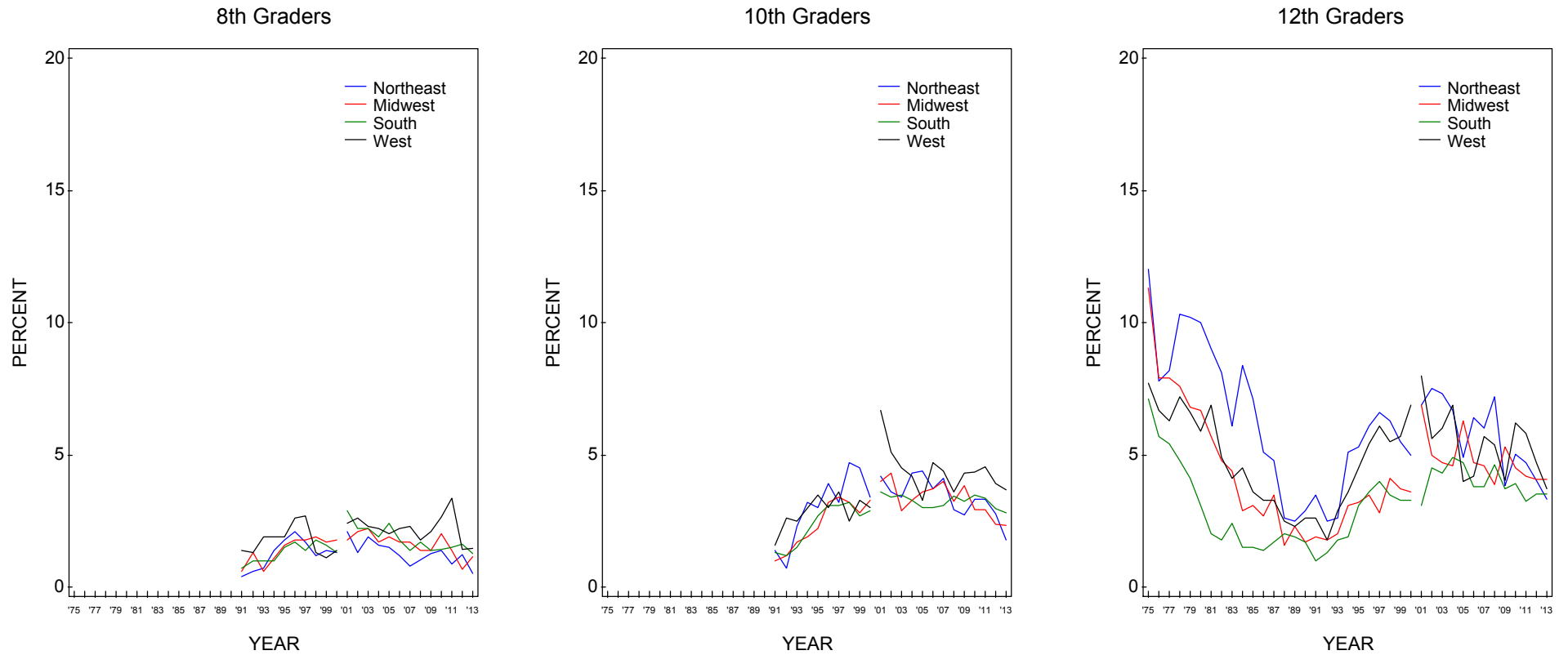
**FIGURE 62**  
**Hallucinogens other than LSD:\* Trends in Annual Prevalence by College Plans**



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

\*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Refer to corresponding tables for further details.

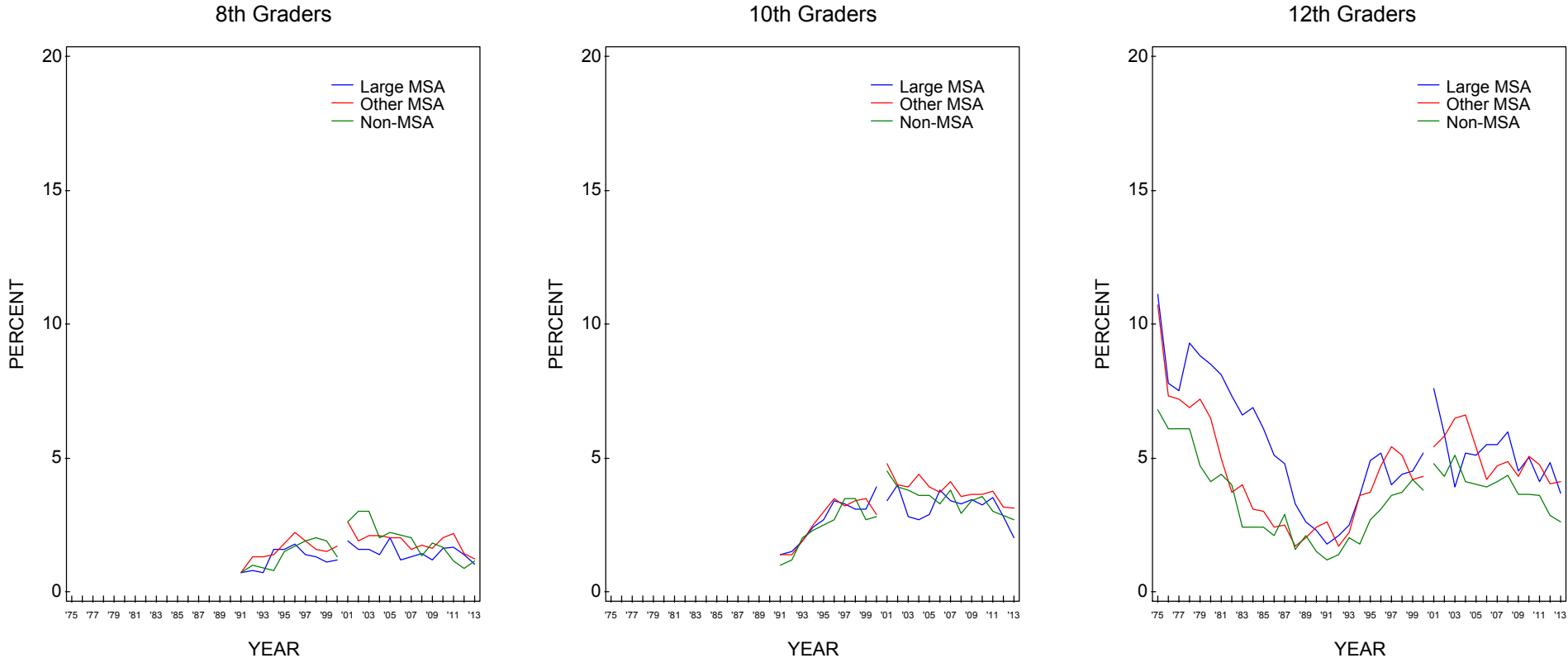
**FIGURE 63**  
**Hallucinogens other than LSD:\* Trends in Annual Prevalence by Region**



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

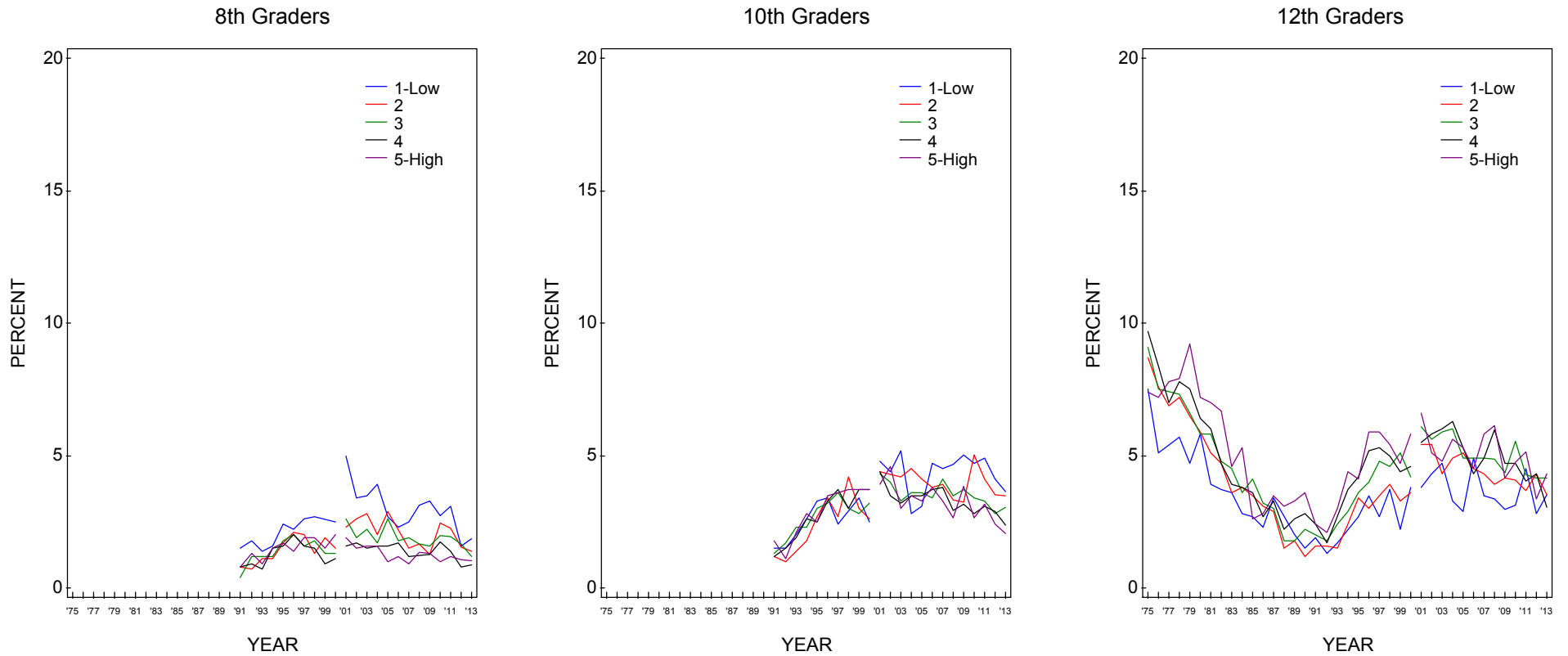
\*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Refer to corresponding tables for further details.

**FIGURE 64**  
**Hallucinogens other than LSD:\* Trends in Annual Prevalence by Population Density**



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

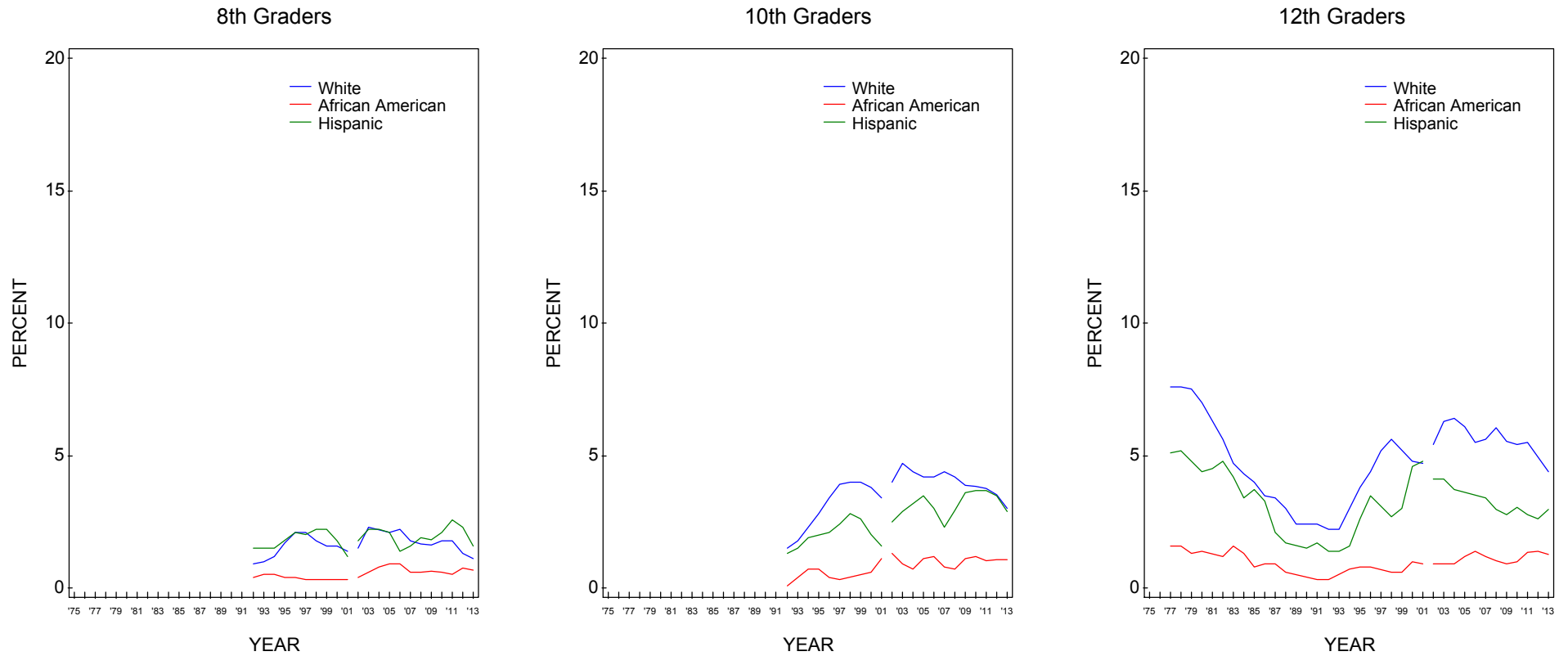
**FIGURE 65**  
**Hallucinogens other than LSD:\* Trends in Annual Prevalence by Average Education Level of Parents**



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

\*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Refer to corresponding tables for further details.

**FIGURE 66**  
**Hallucinogens other than LSD:\* Trends in Annual Prevalence by Race/Ethnicity\*\***

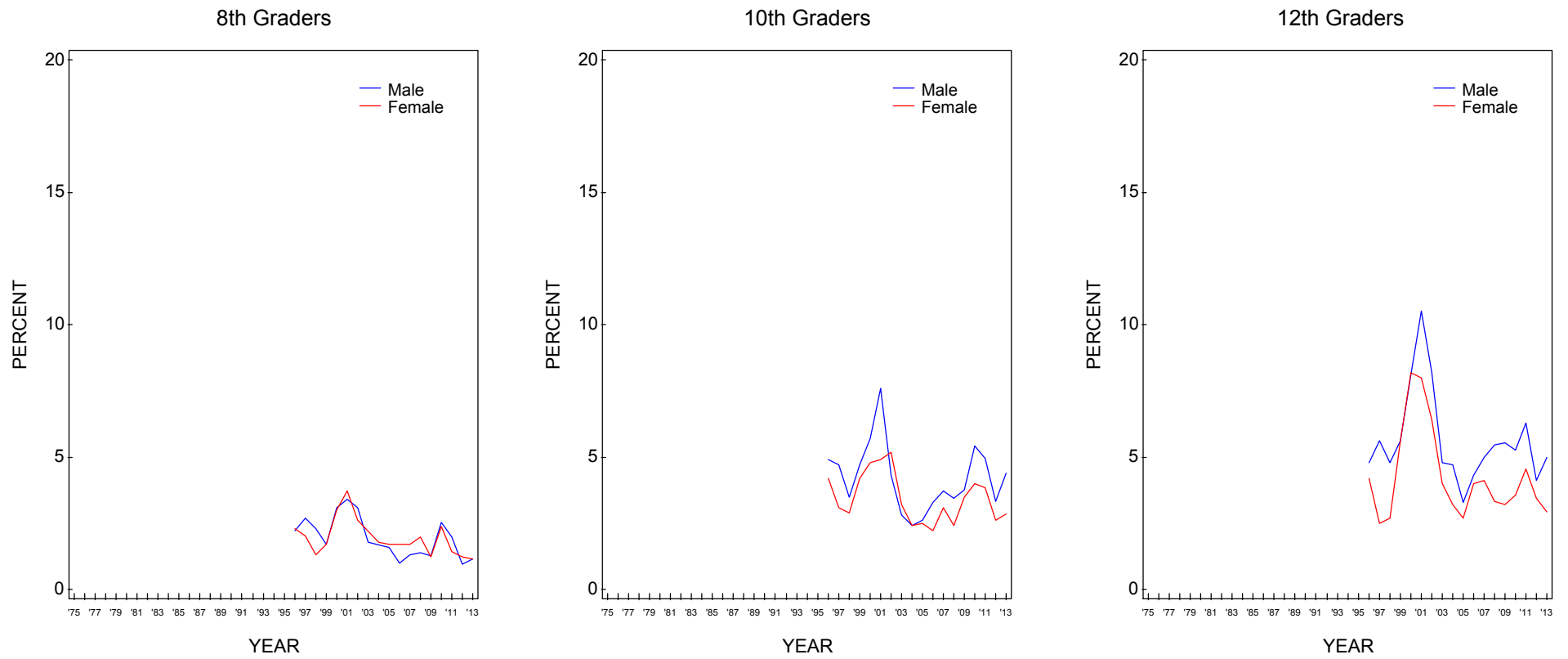


Source. The Monitoring the Future study, the University of Michigan.

\*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Refer to corresponding tables for further details.

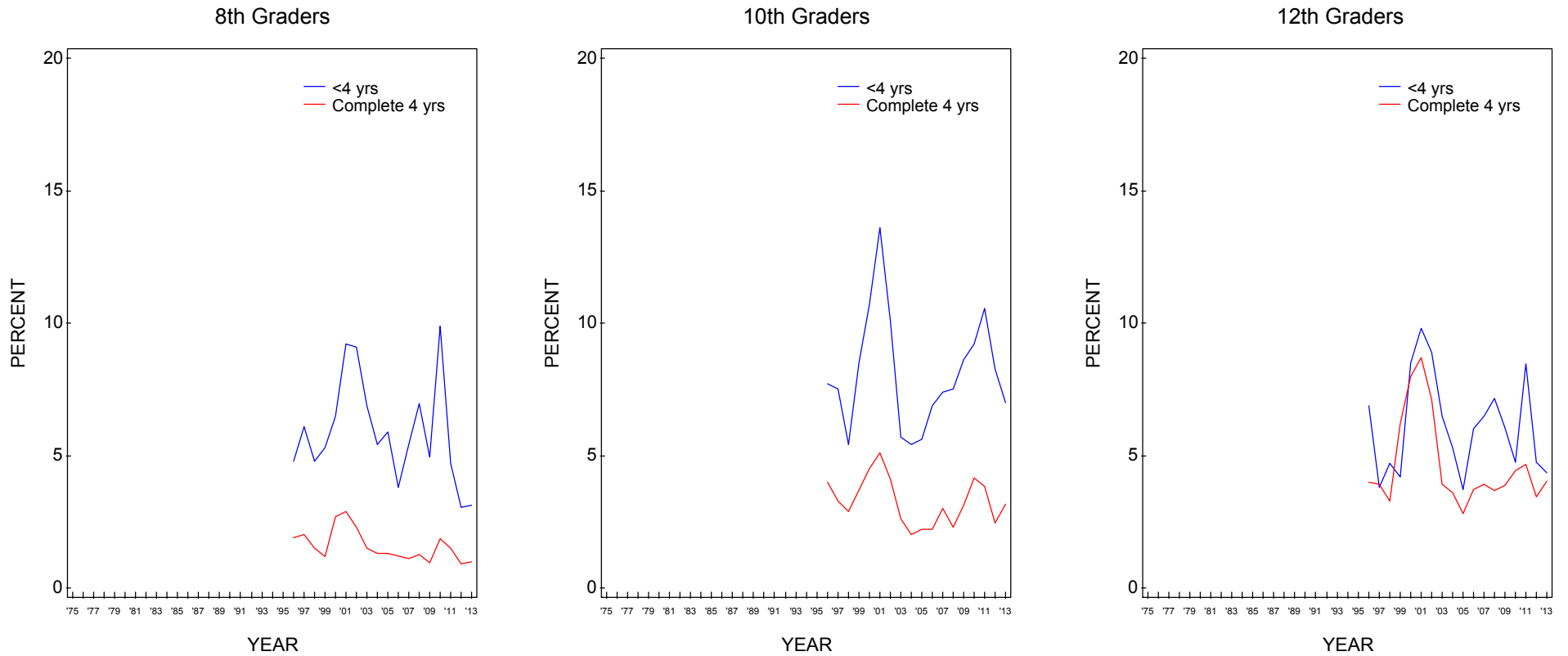
\*\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

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



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

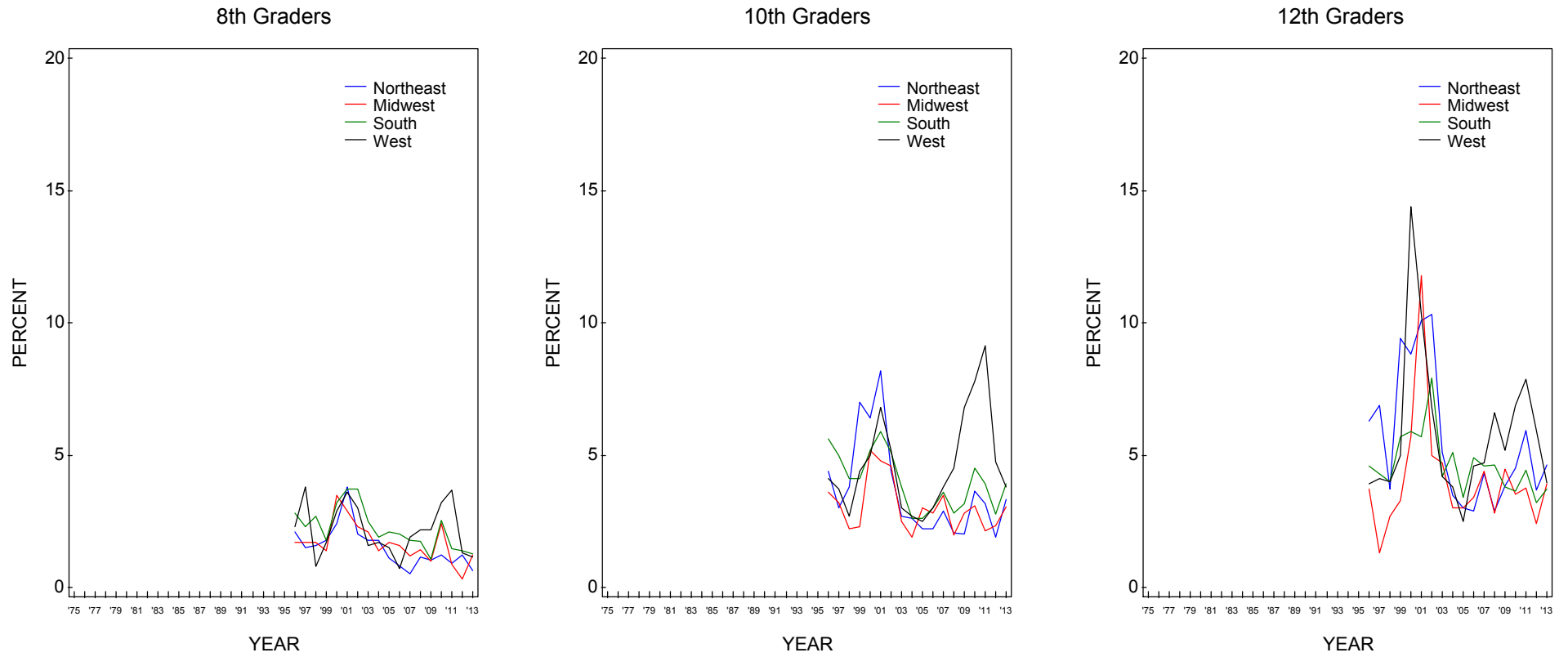
**FIGURE 68**  
**Ecstasy (MDMA): Trends in Annual Prevalence by College Plans**



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

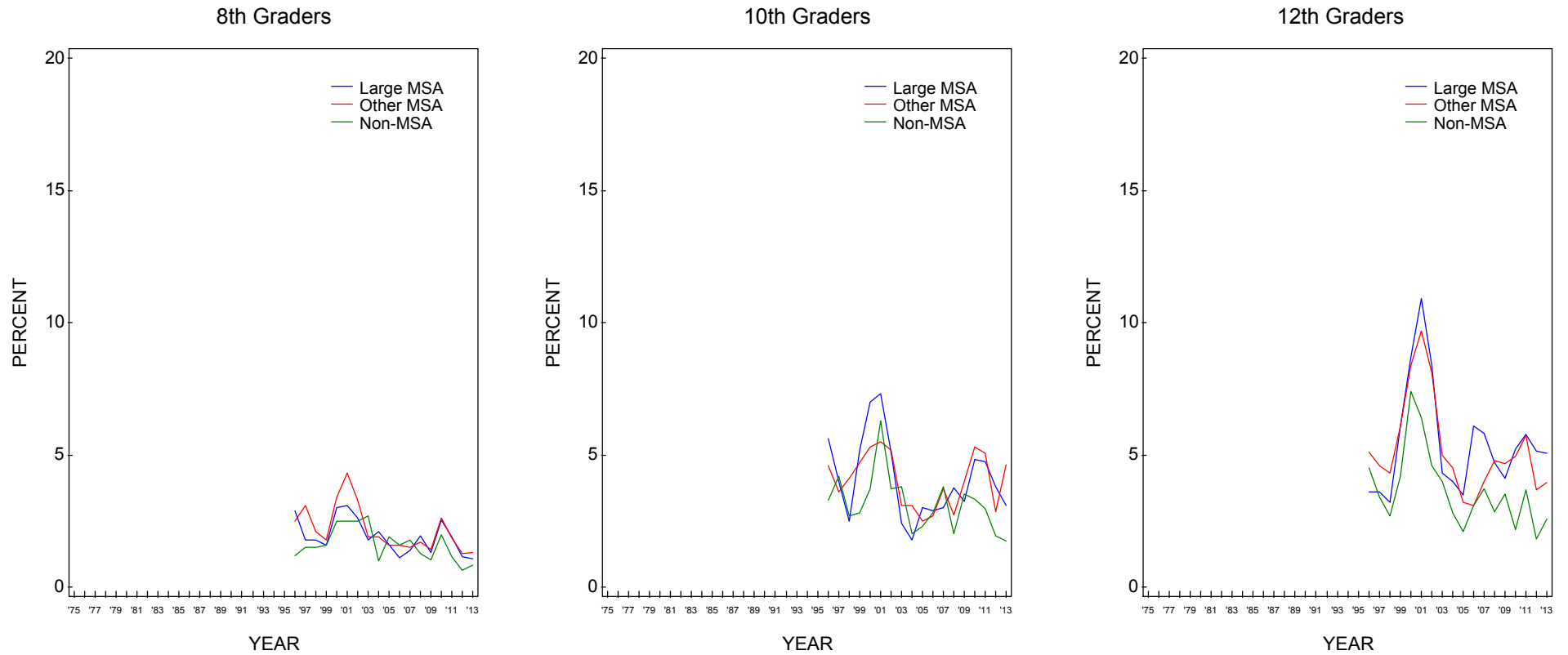


**FIGURE 69**  
**Ecstasy (MDMA): Trends in Annual Prevalence by Region**



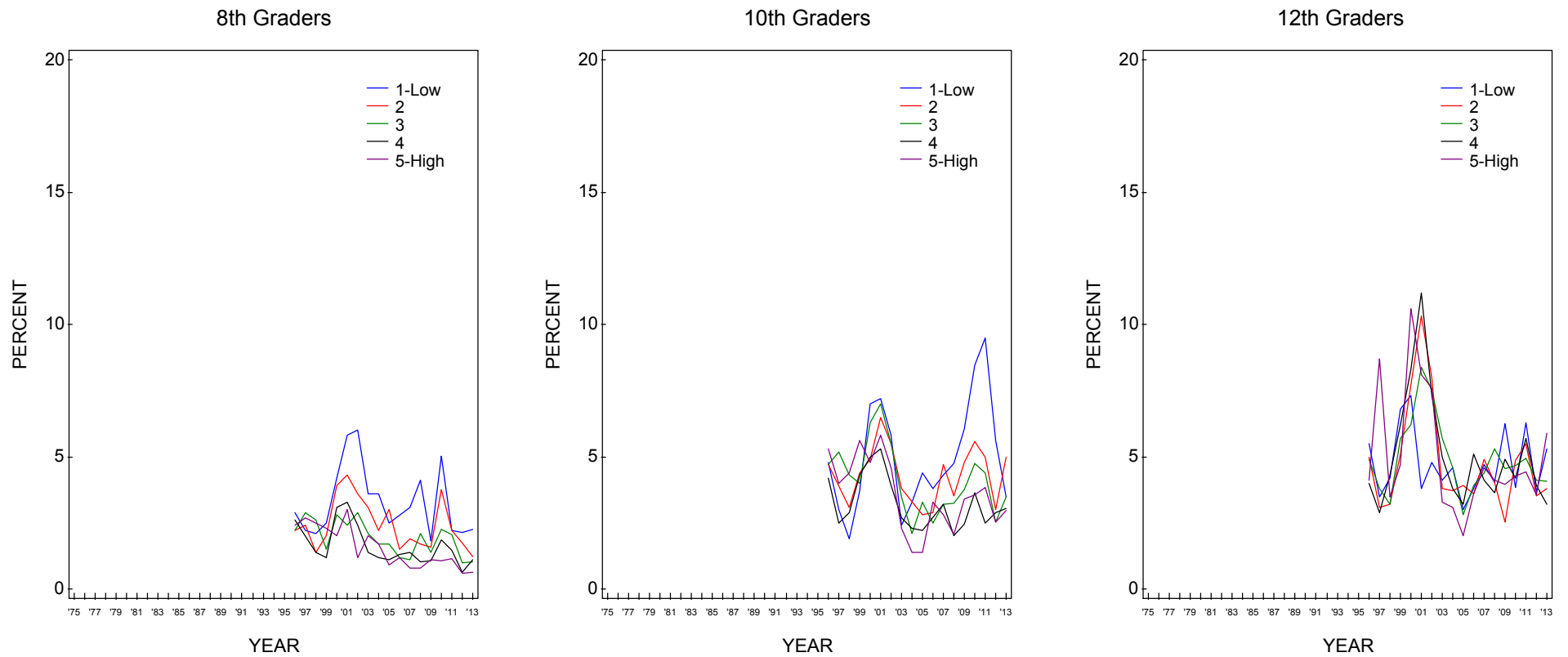
Source. The Monitoring the Future study, the University of Michigan.

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



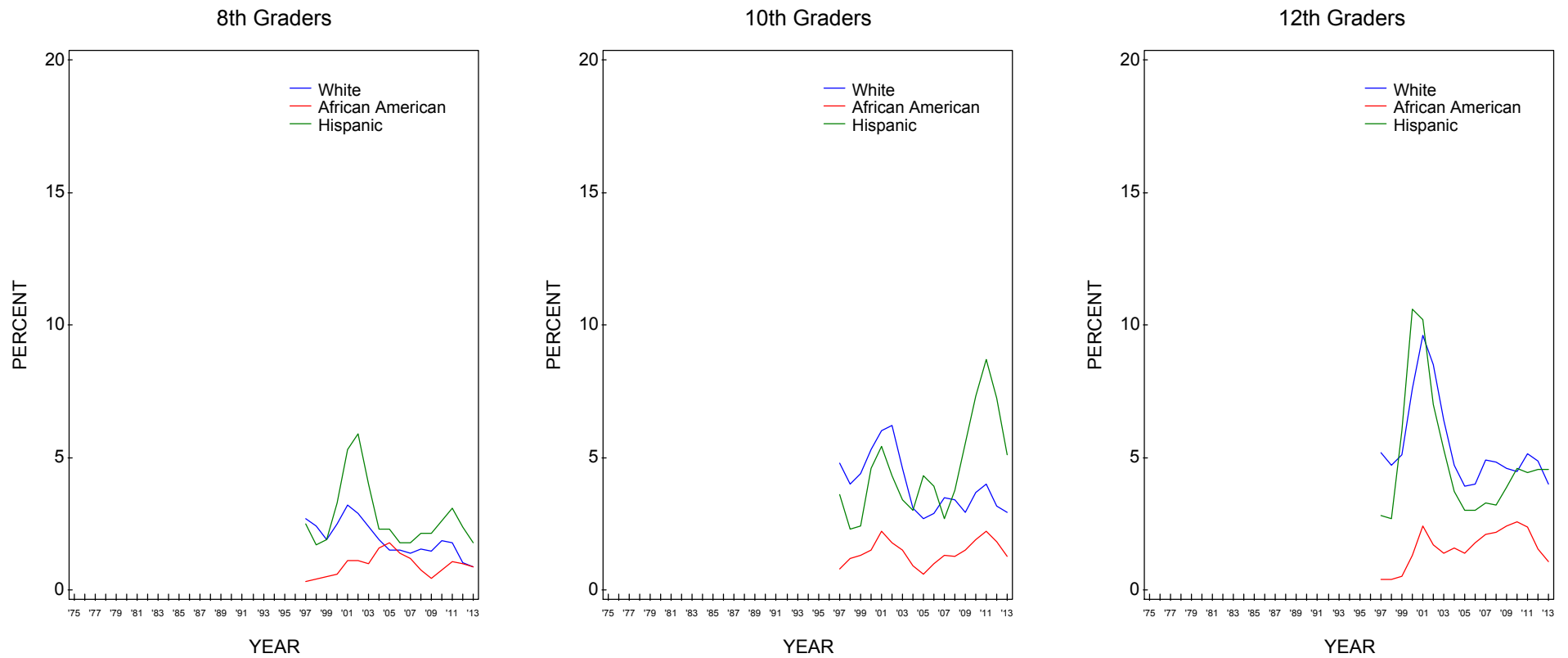
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 71**  
**Ecstasy (MDMA): Trends in Annual Prevalence by Average Education Level of Parents**



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

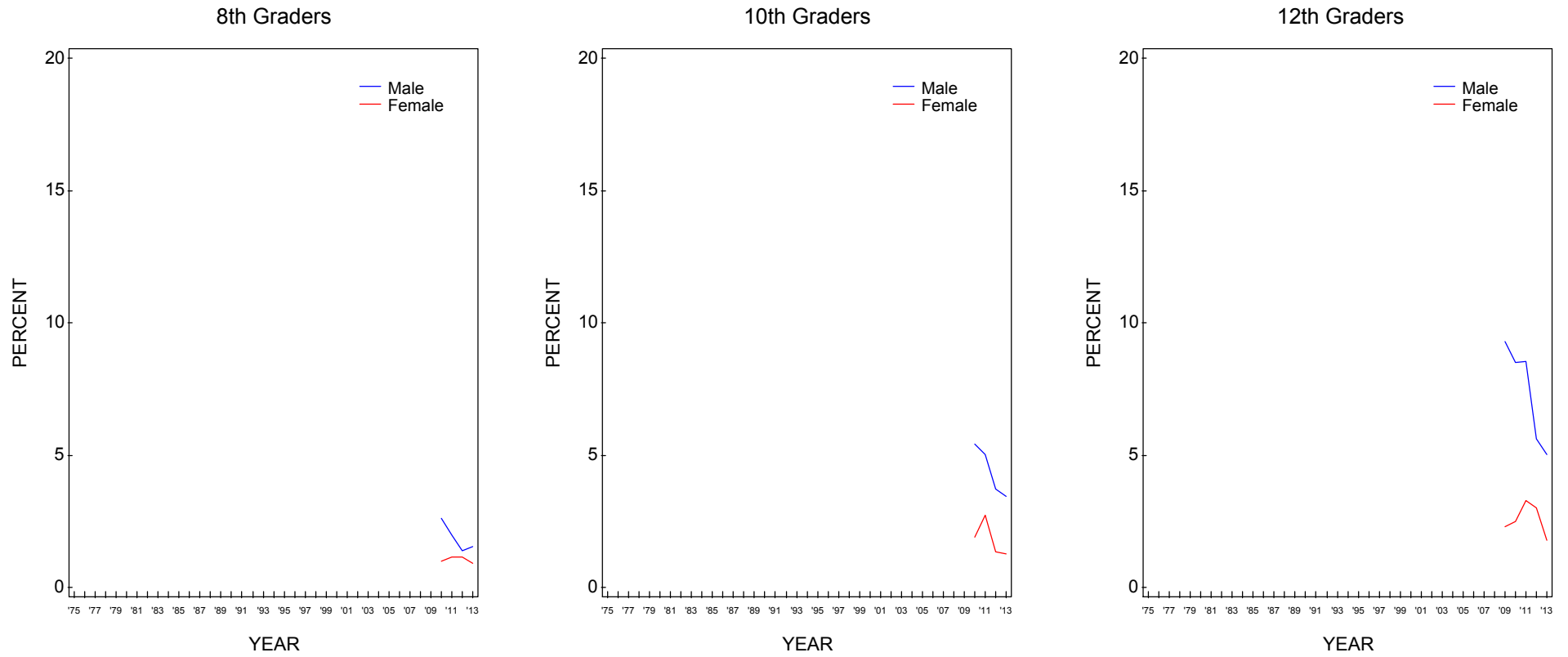
**FIGURE 72**  
**Ecstasy (MDMA): Trends in Annual Prevalence by Race/Ethnicity\***



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

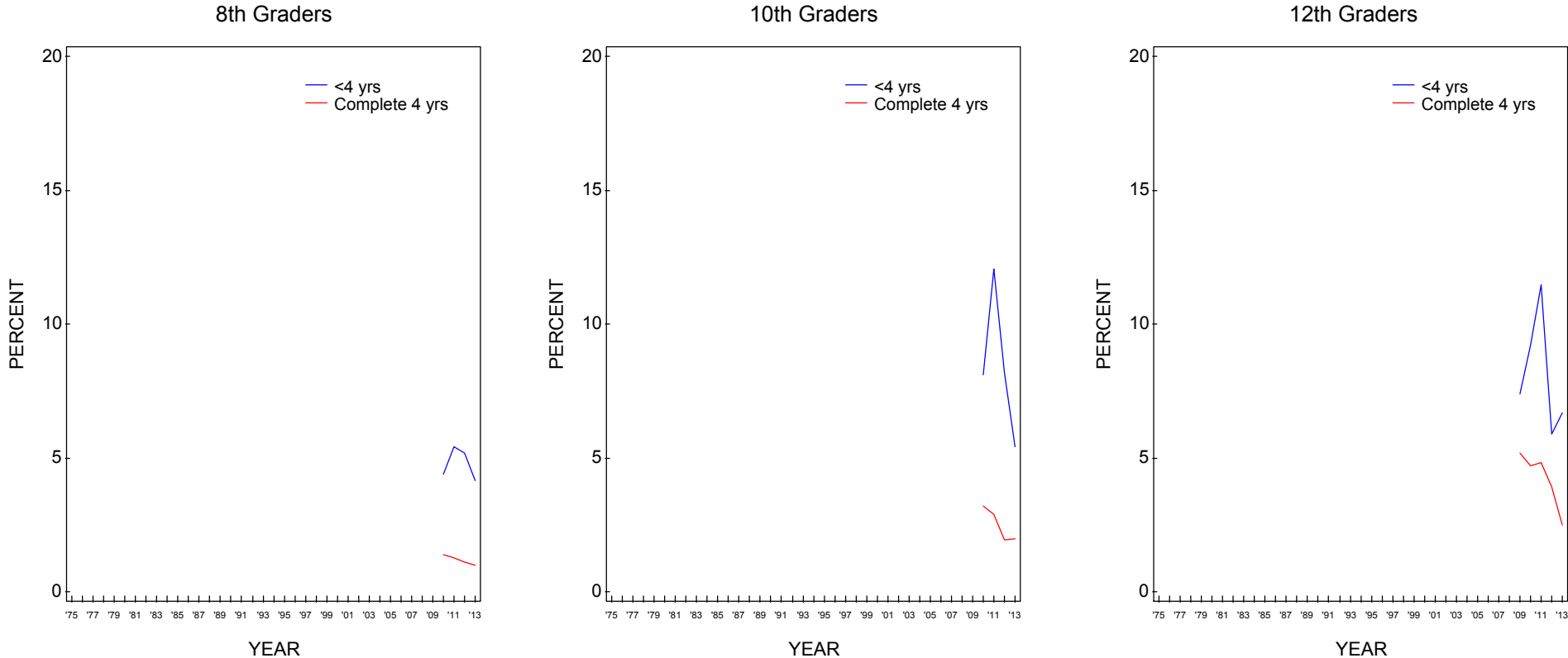
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 73**  
**Salvia: Trends in Annual Prevalence by Gender**



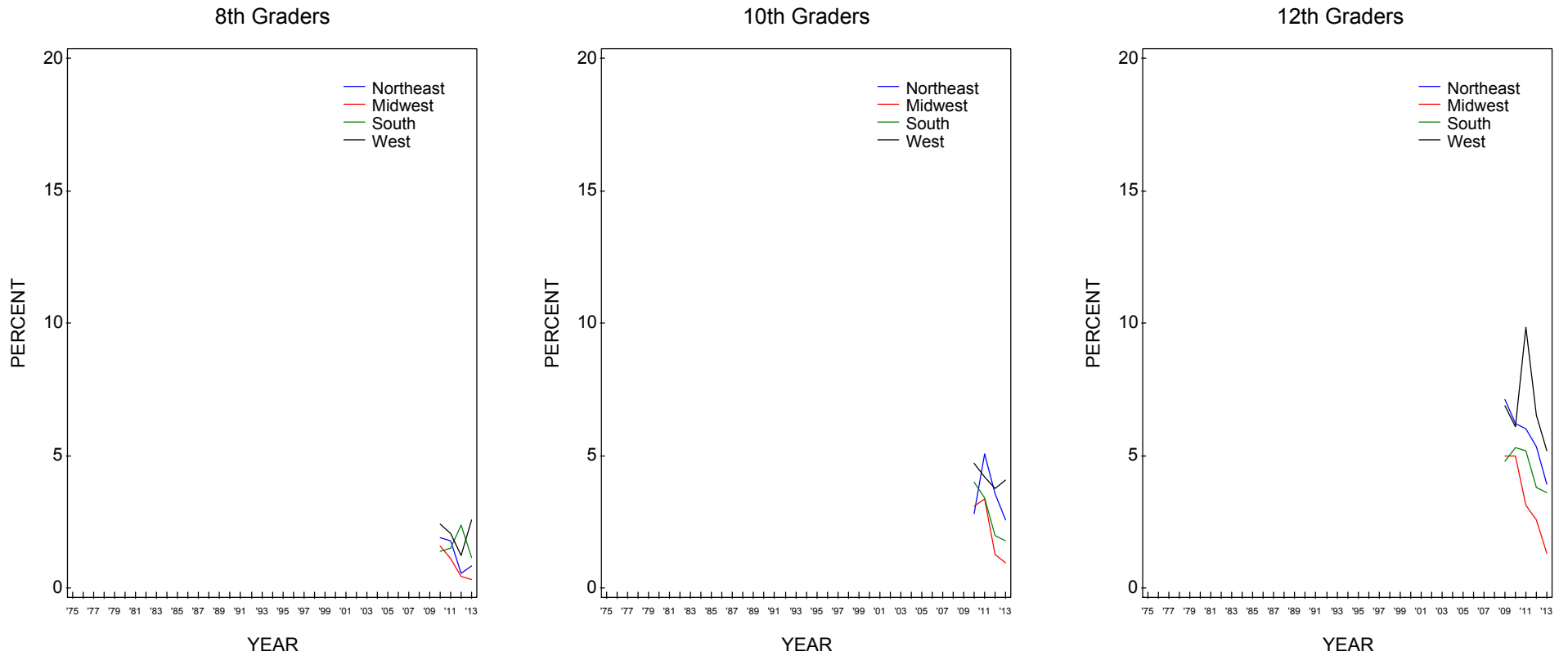
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 74**  
**Salvia: Trends in Annual Prevalence by College Plans**



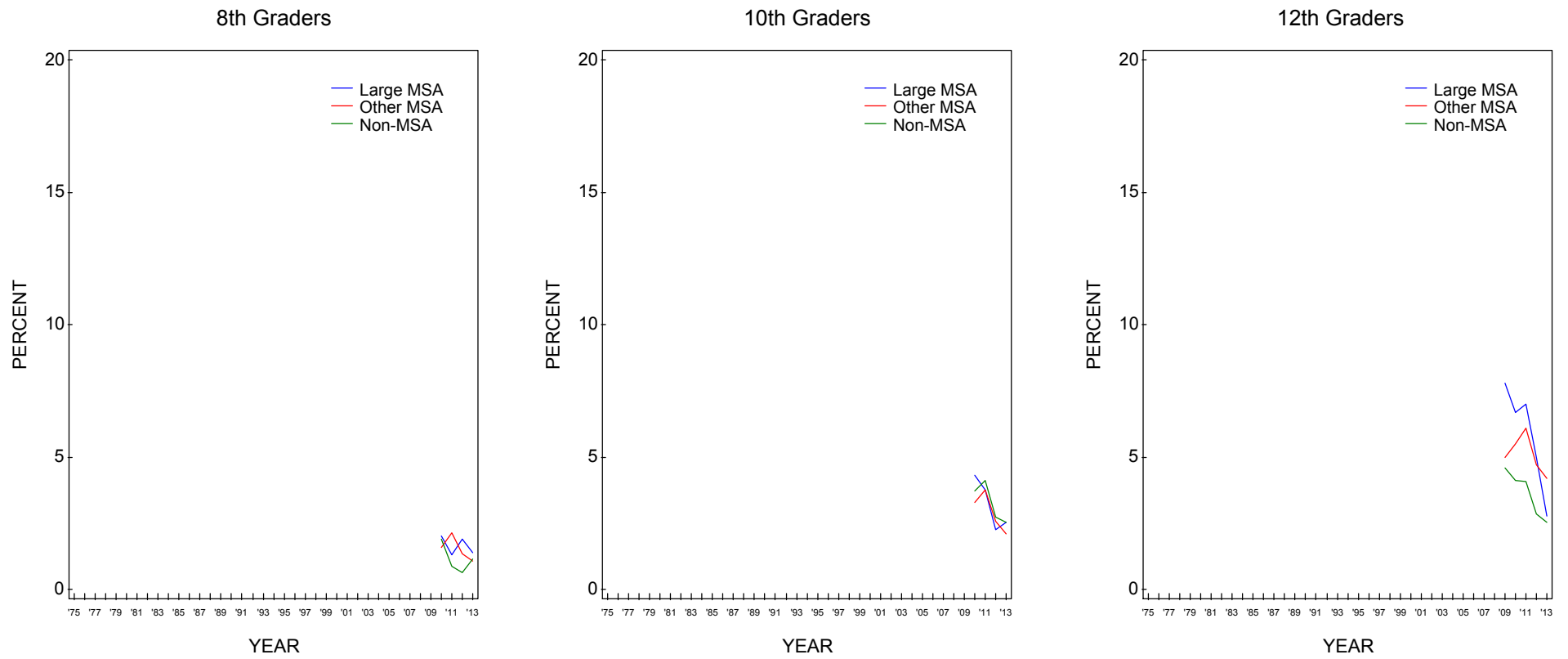
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 75**  
**Salvia: Trends in Annual Prevalence by Region**



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

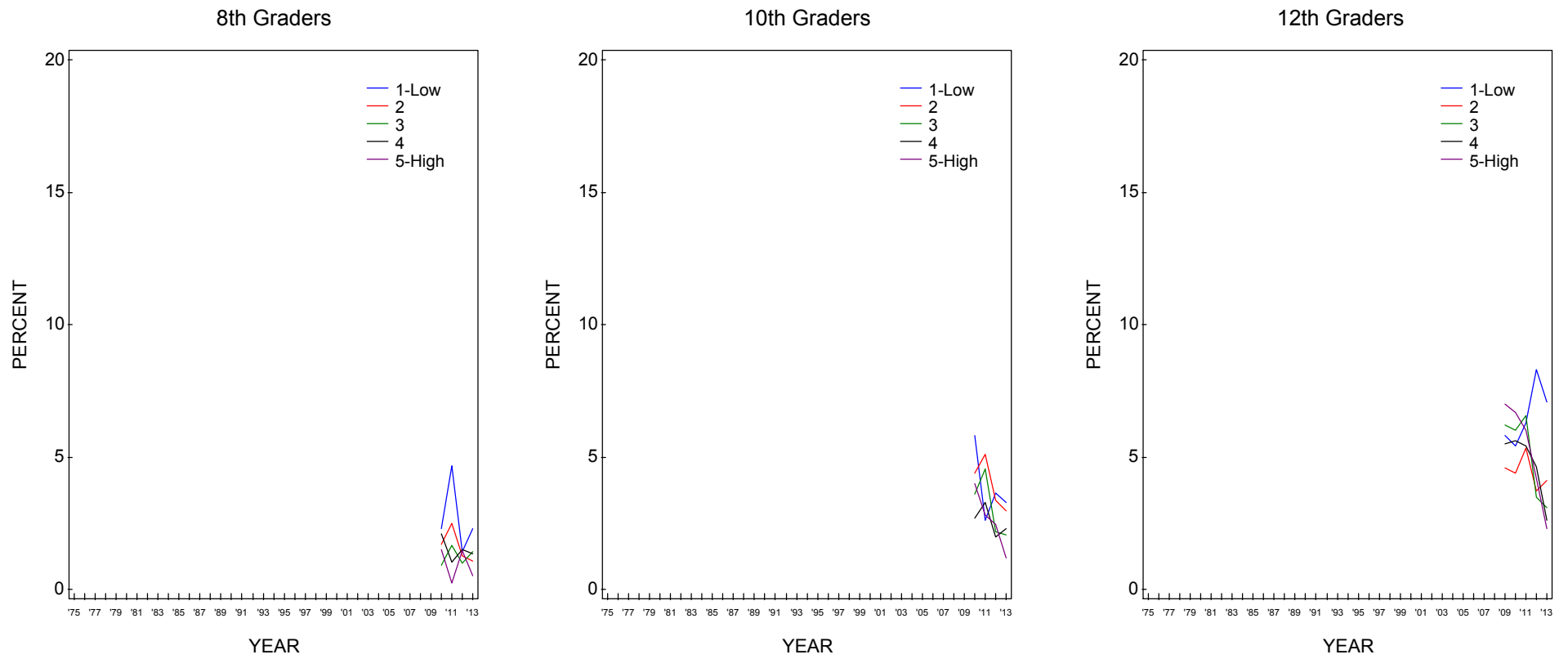
**FIGURE 76**  
**Salvia: Trends in Annual Prevalence by Population Density**



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

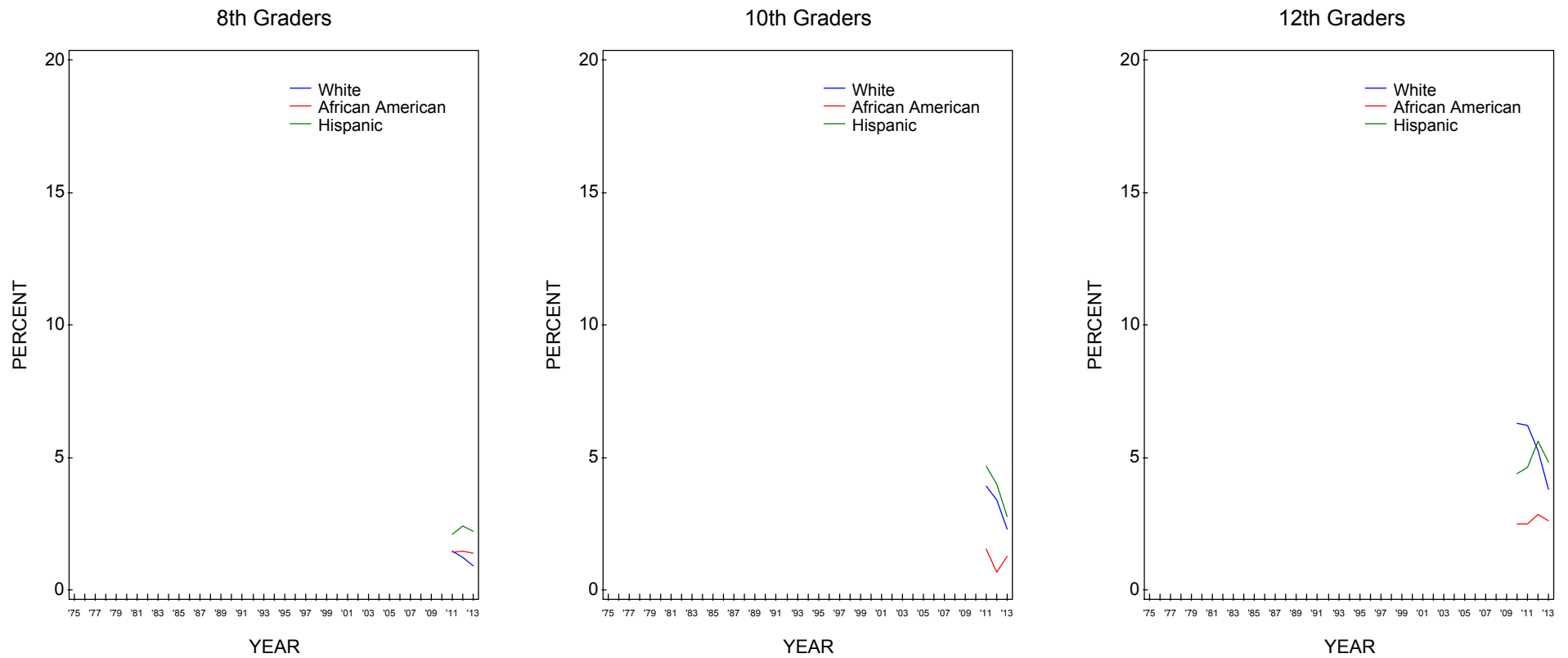


**FIGURE 77**  
**Salvia: Trends in Annual Prevalence by Average Education Level of Parents**



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

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

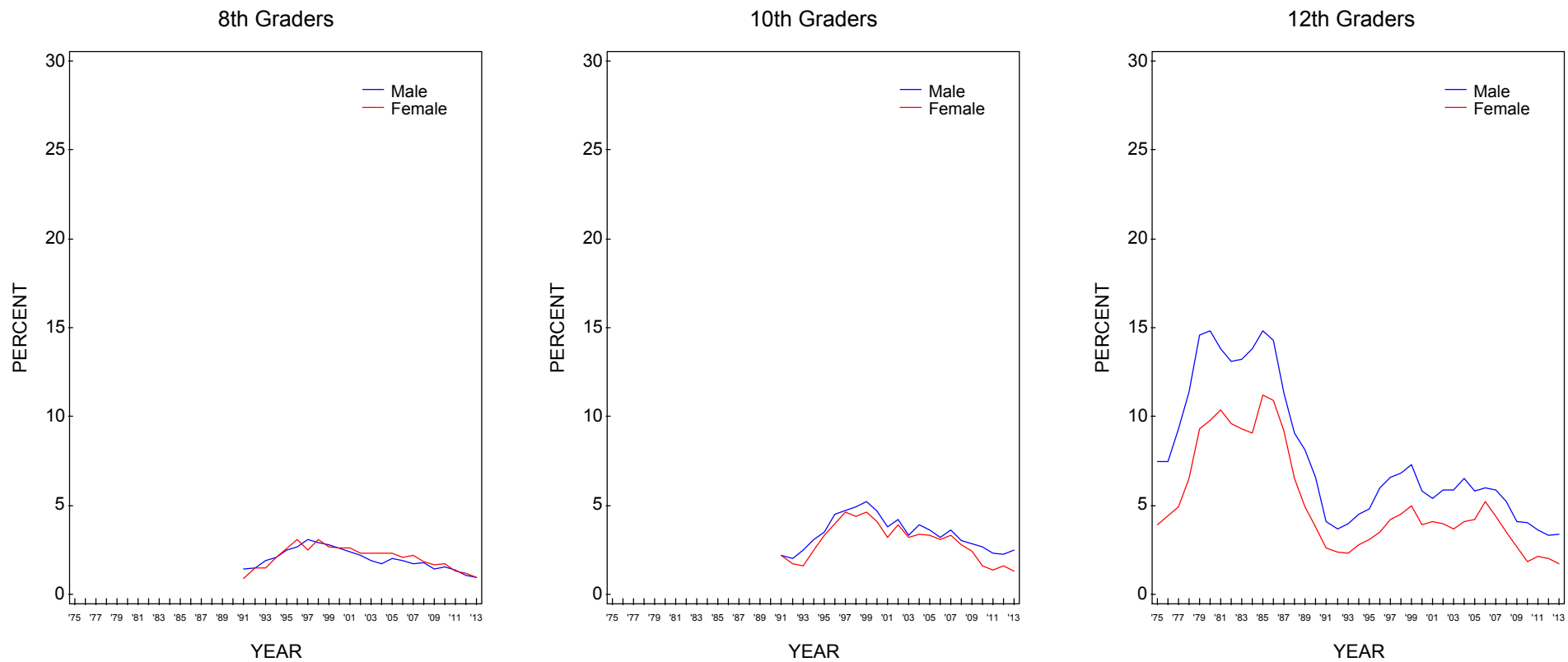


Source. The Monitoring the Future study, the University of Michigan.

\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

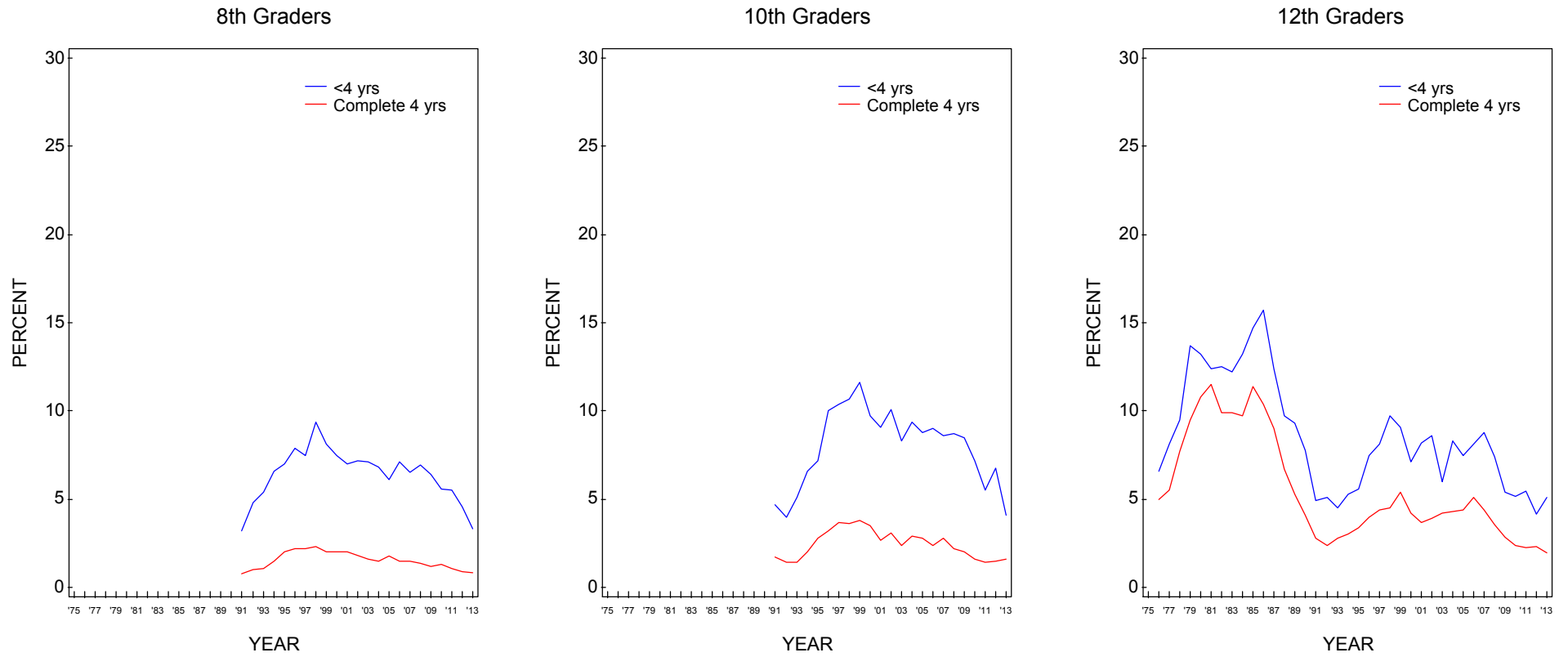
\*\*The question on salvia use was added to the 8th and 10th grade surveys in 2010. Therefore, only one data point is currently available for these grades.

**FIGURE 79**  
**Cocaine: Trends in Annual Prevalence by Gender**



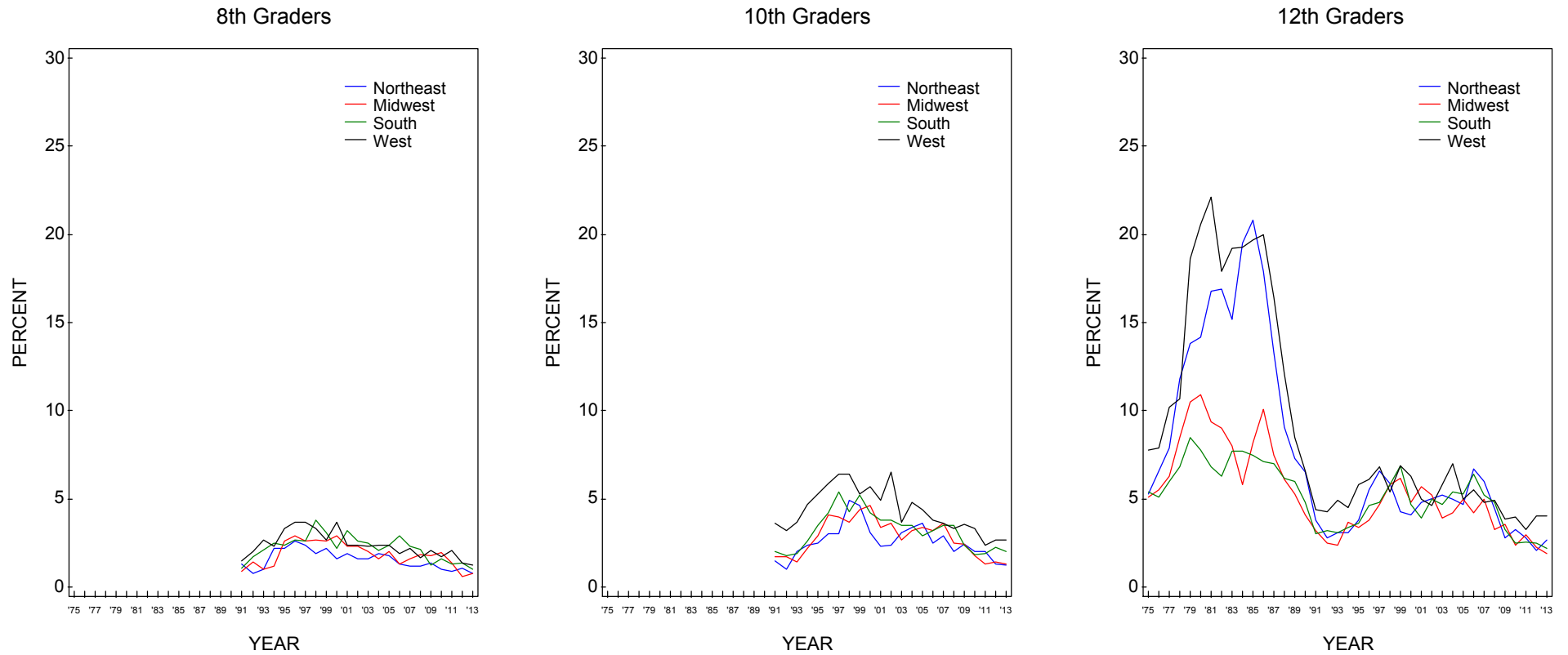
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 80**  
**Cocaine: Trends in Annual Prevalence by College Plans**



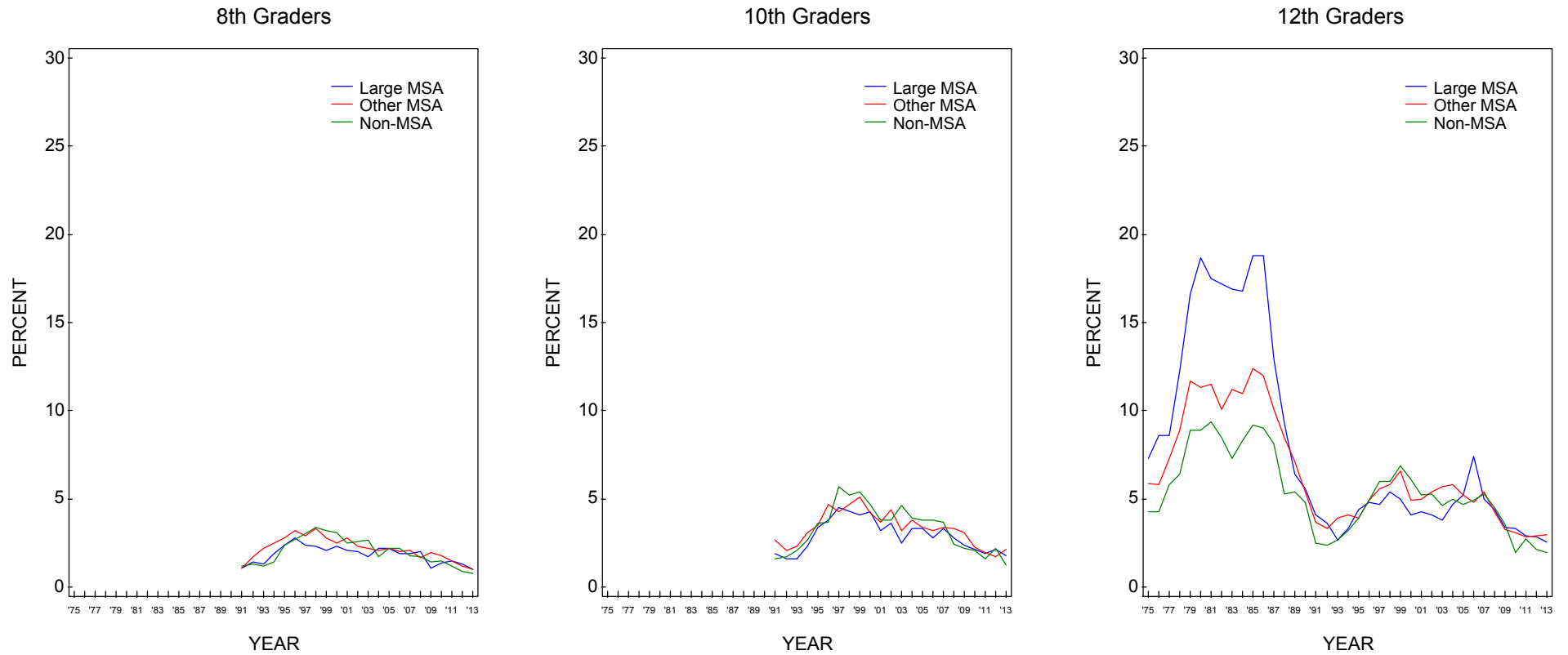
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 81**  
**Cocaine: Trends in Annual Prevalence by Region**



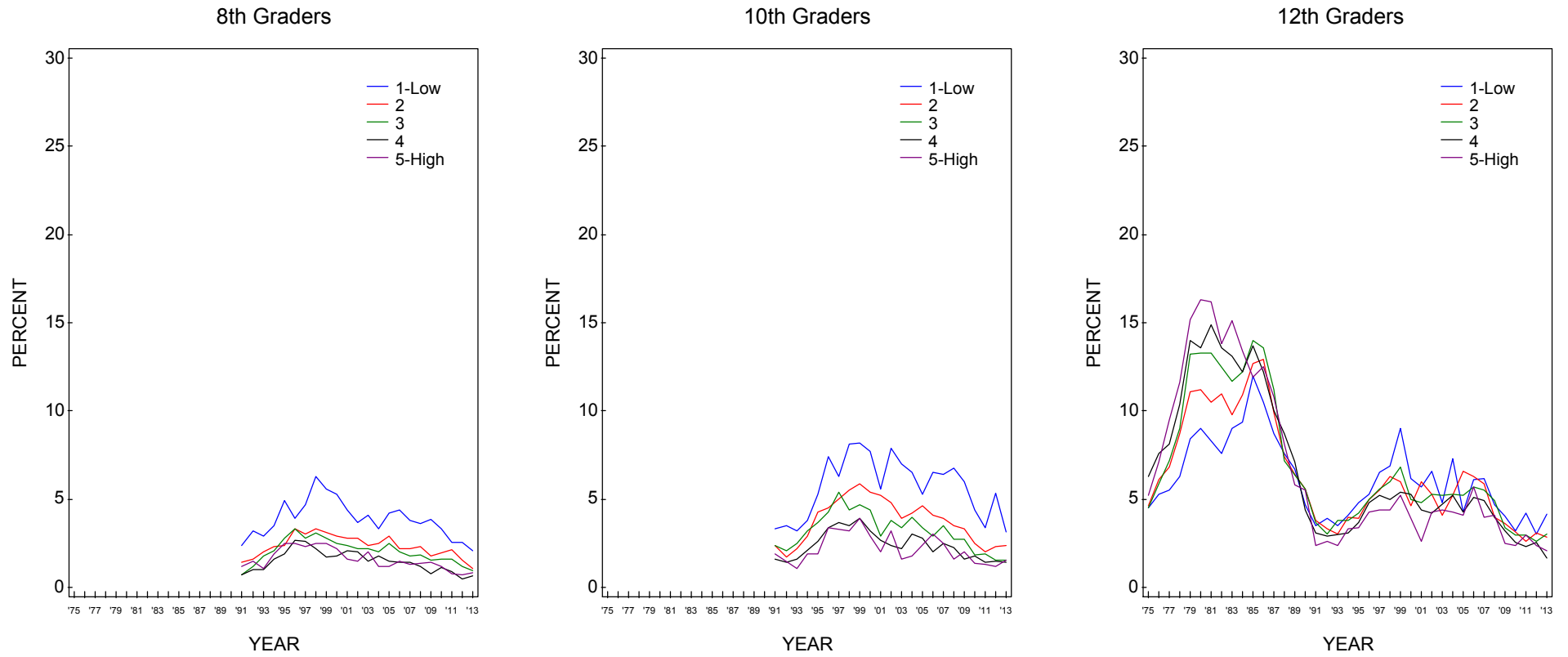
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 82**  
**Cocaine: Trends in Annual Prevalence by Population Density**



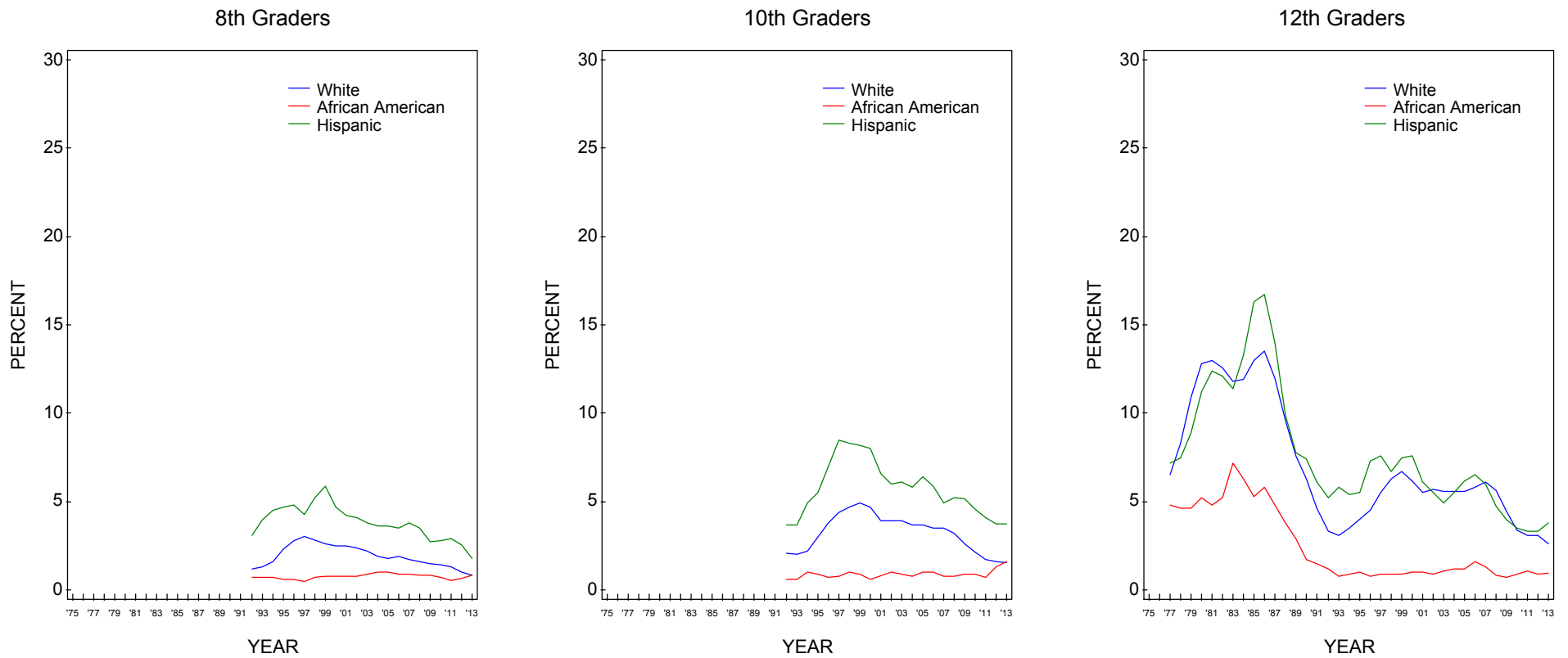
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 83**  
**Cocaine: Trends in Annual Prevalence by Average Education Level of Parents**



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

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

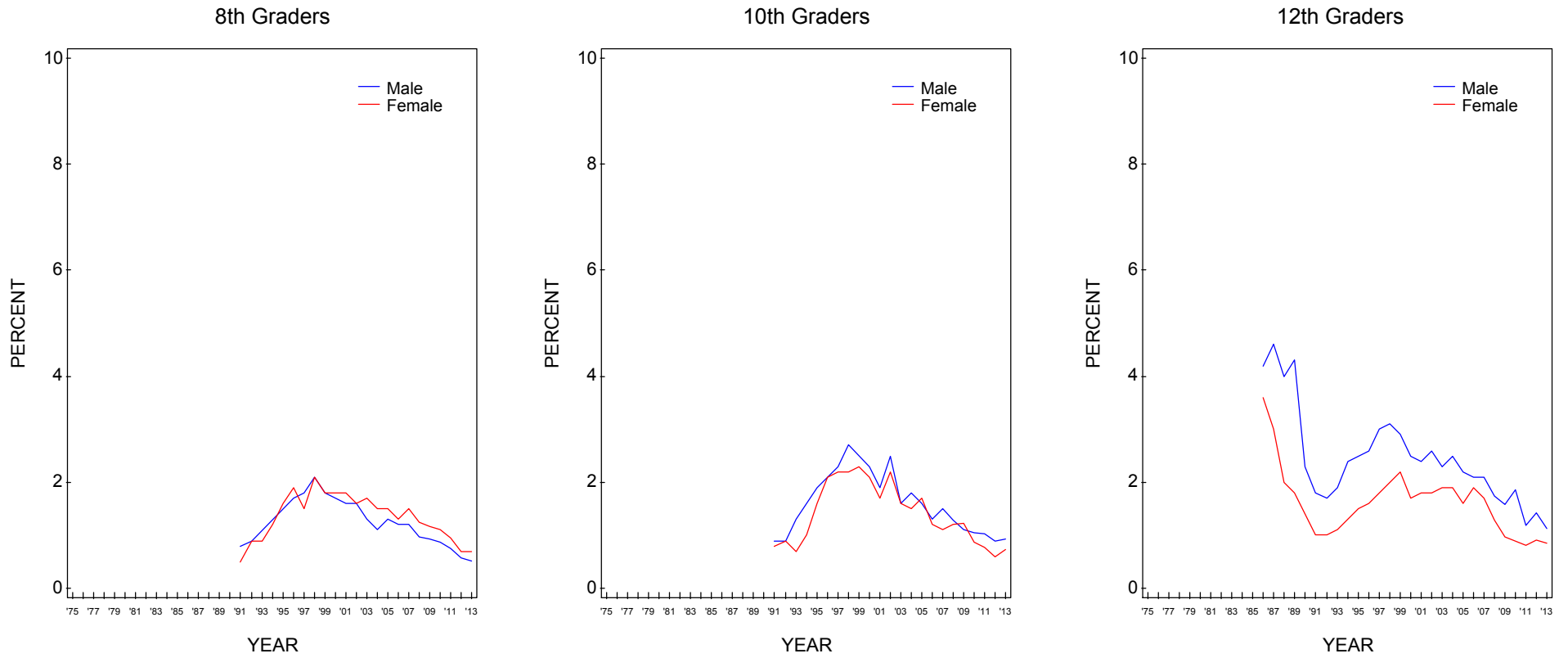


Source. The Monitoring the Future study, the University of Michigan.

\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

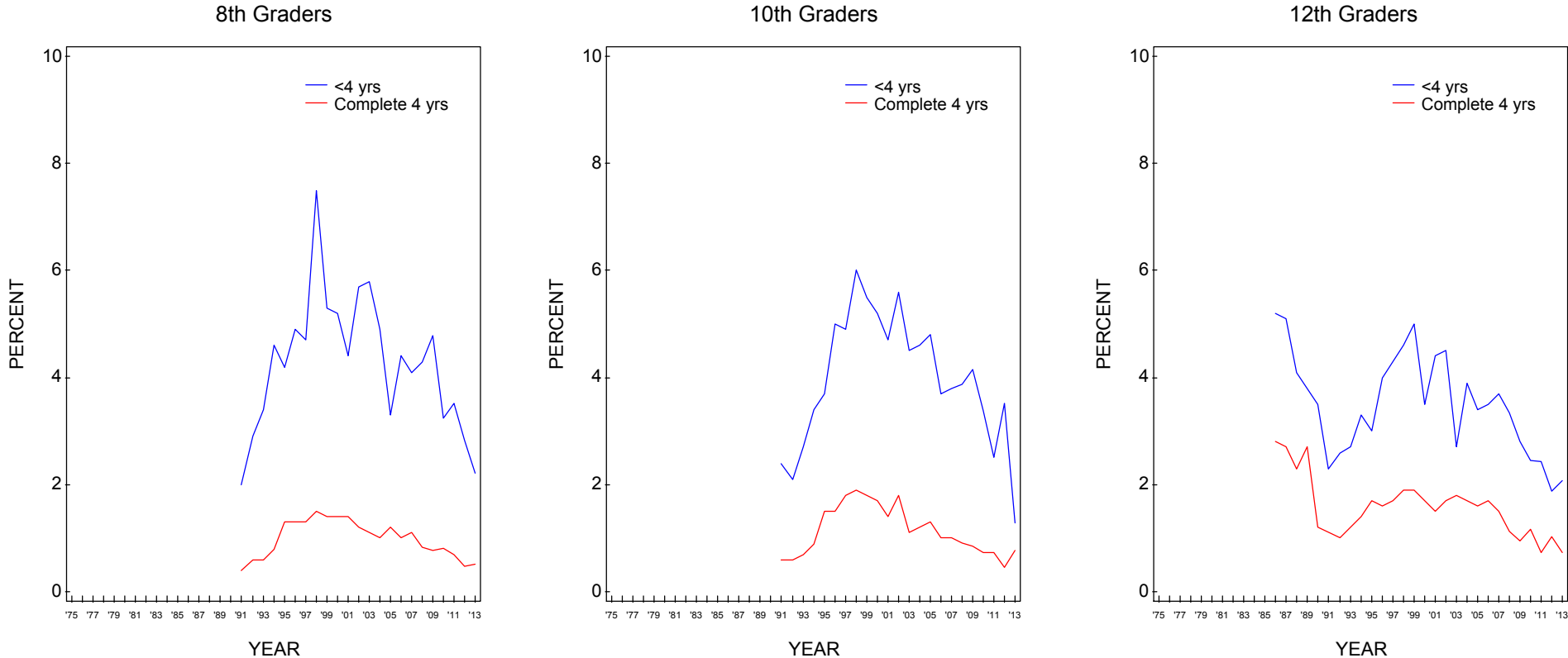


**FIGURE 85**  
**Crack: Trends in Annual Prevalence by Gender**



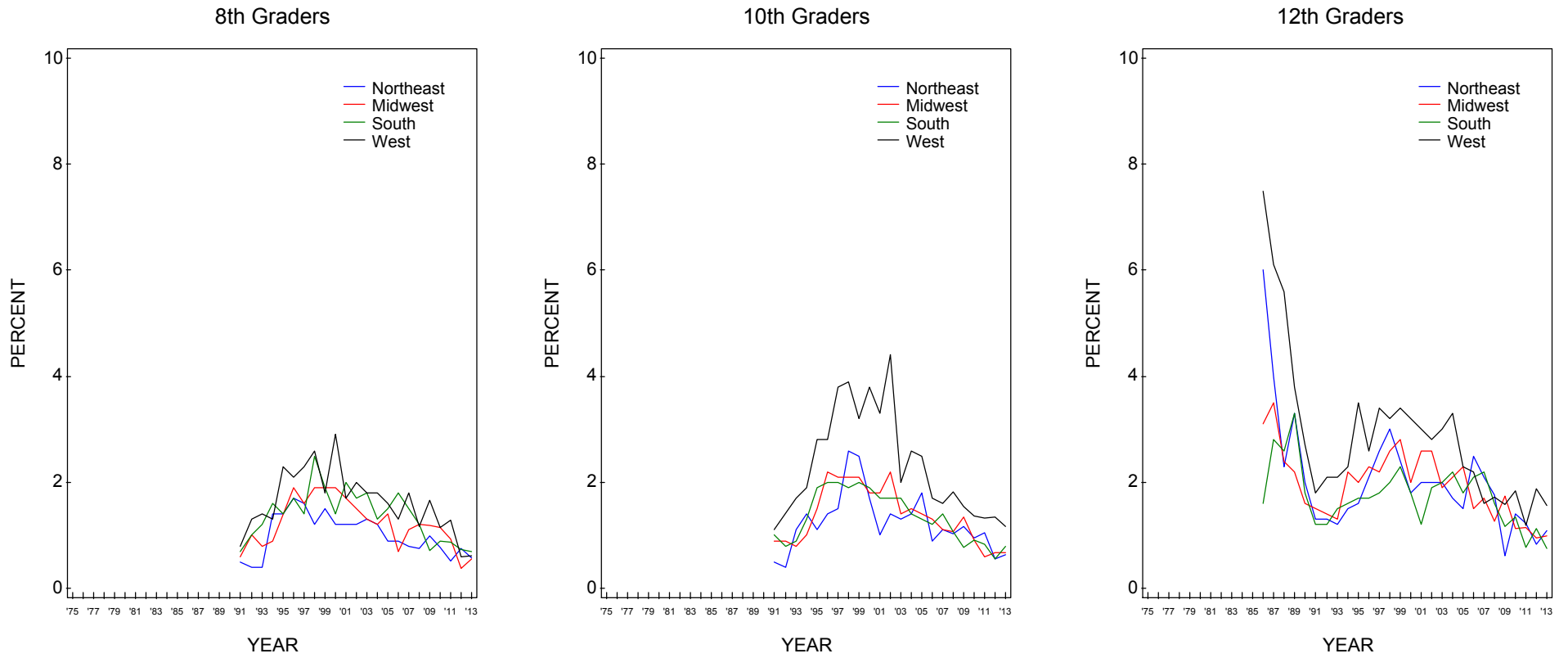
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 86**  
**Crack: Trends in Annual Prevalence by College Plans**



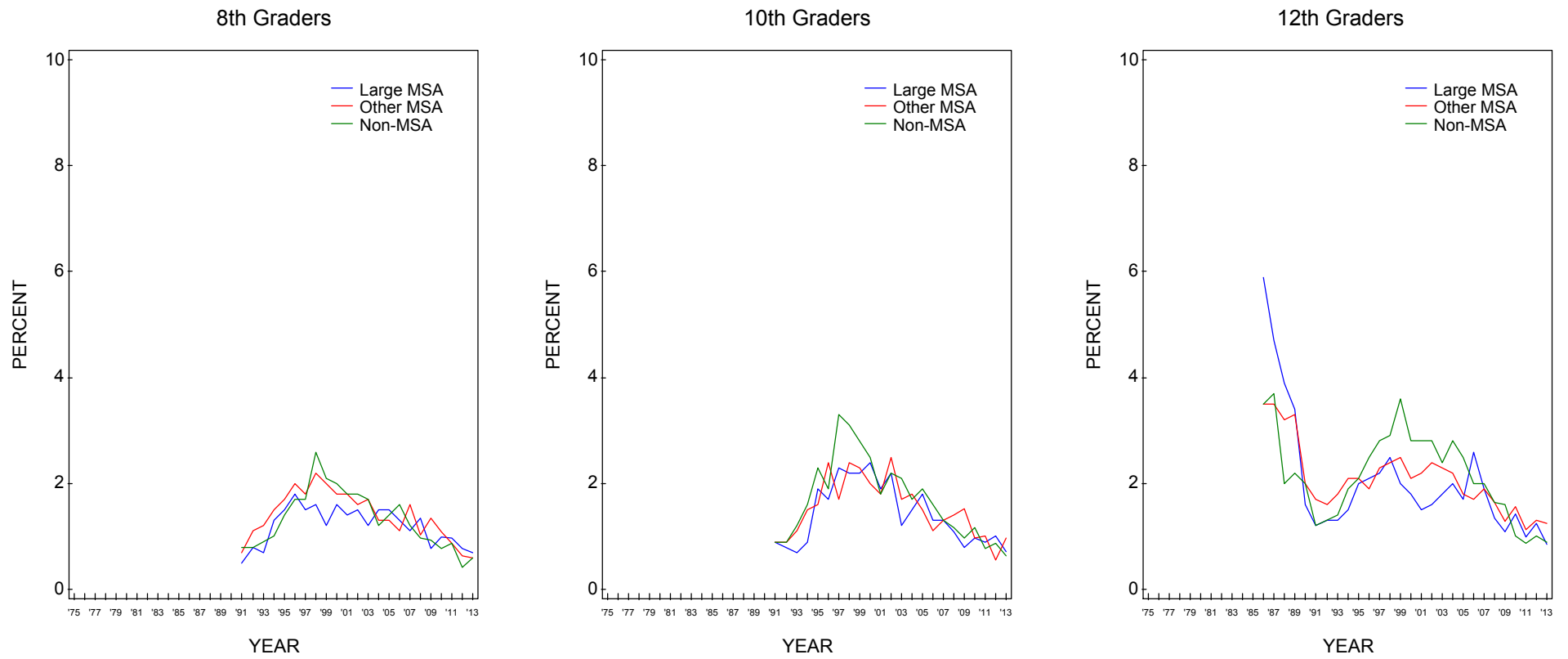
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 87**  
**Crack: Trends in Annual Prevalence by Region**



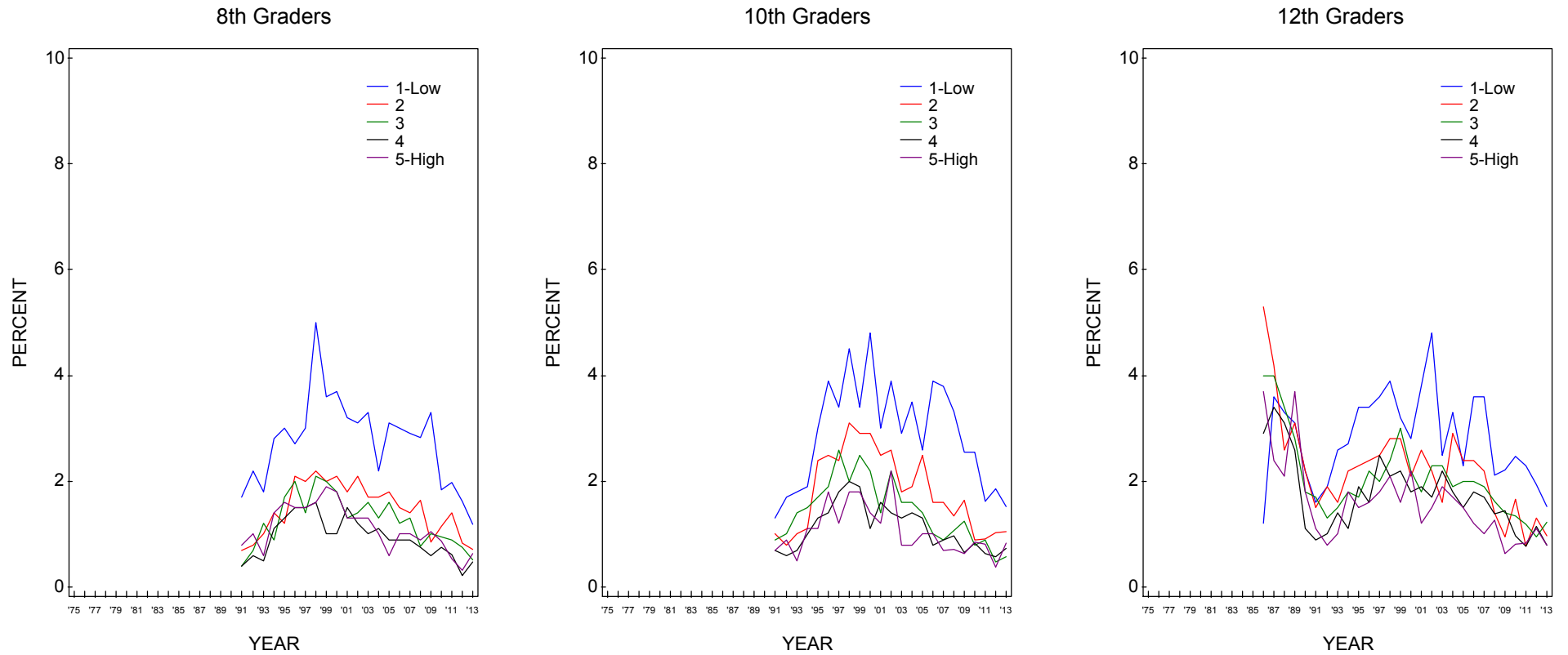
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 88**  
**Crack: Trends in Annual Prevalence by Population Density**



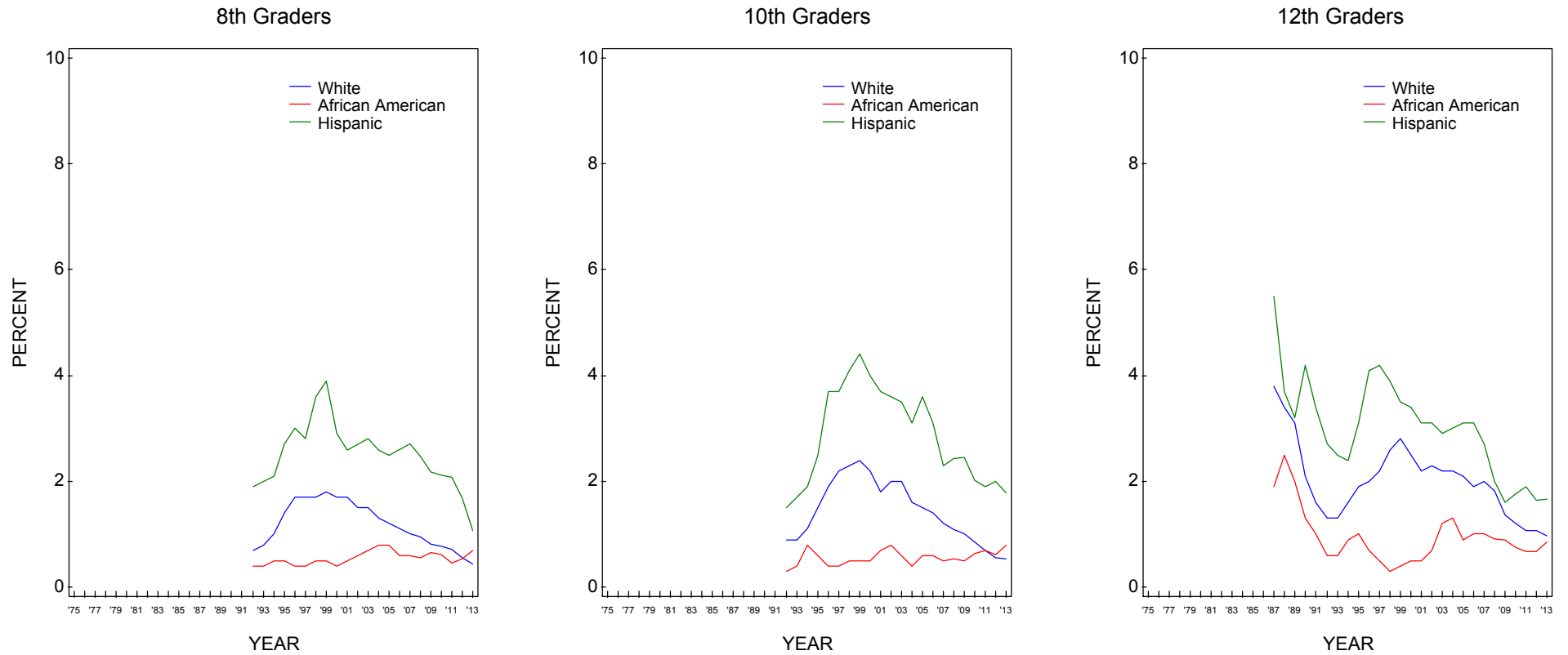
Source. The Monitoring the Future study, the University of Michigan.

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



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

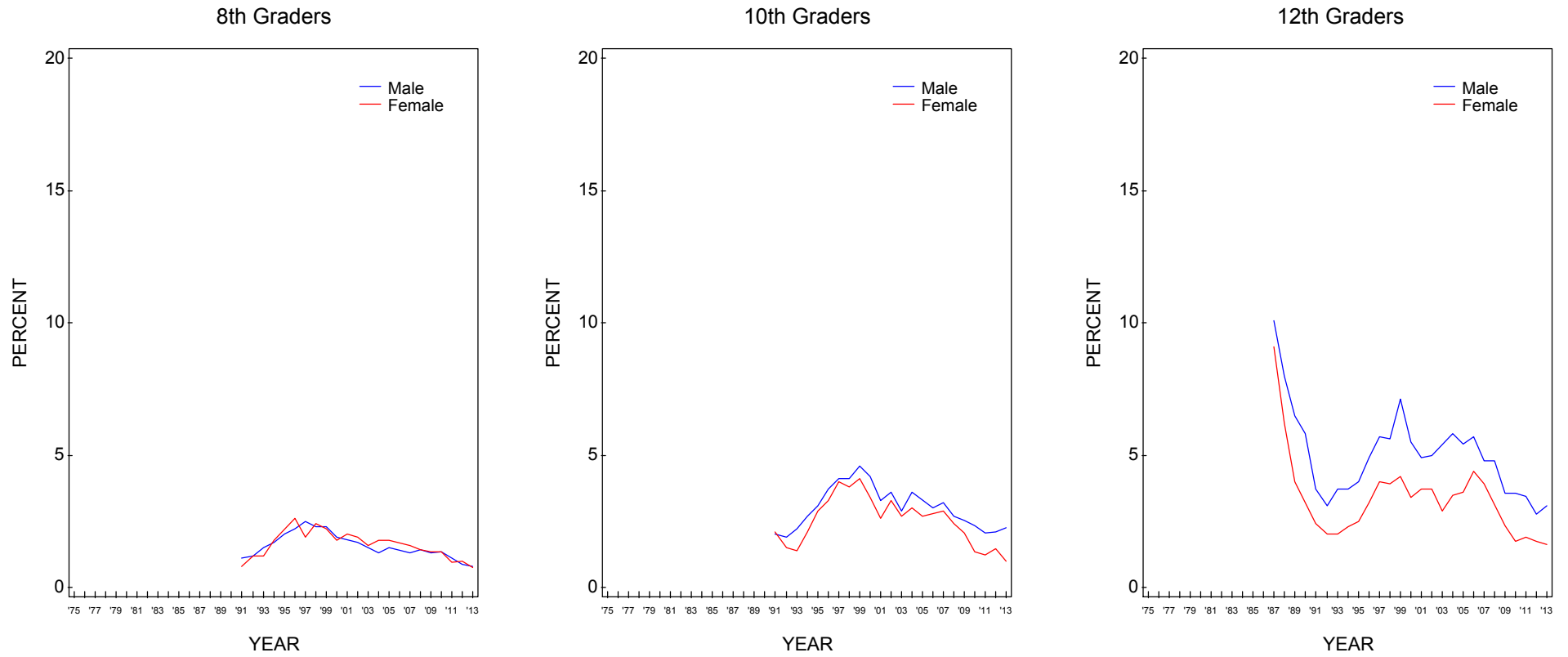
**FIGURE 90**  
**Crack: Trends in Annual Prevalence by Race/Ethnicity\***



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

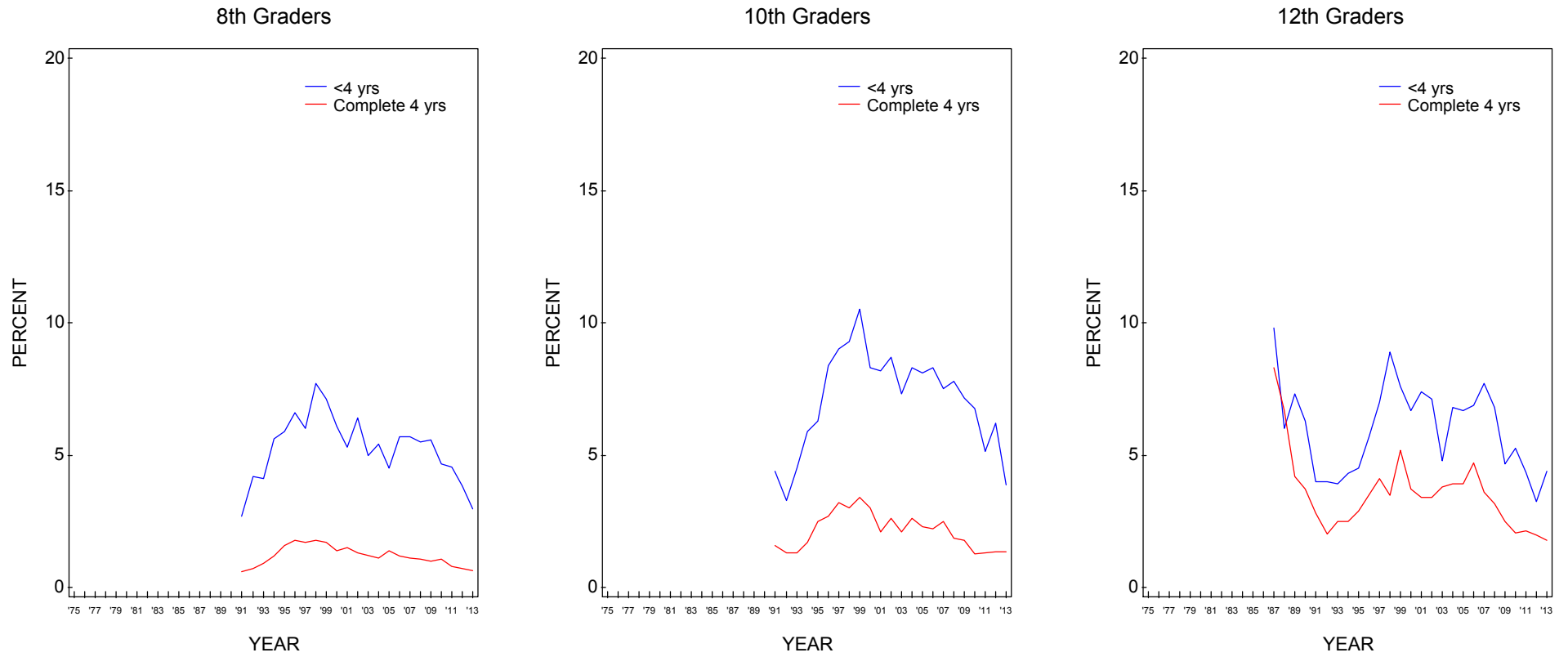
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 91**  
**Other Cocaine: Trends in Annual Prevalence by Gender**



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

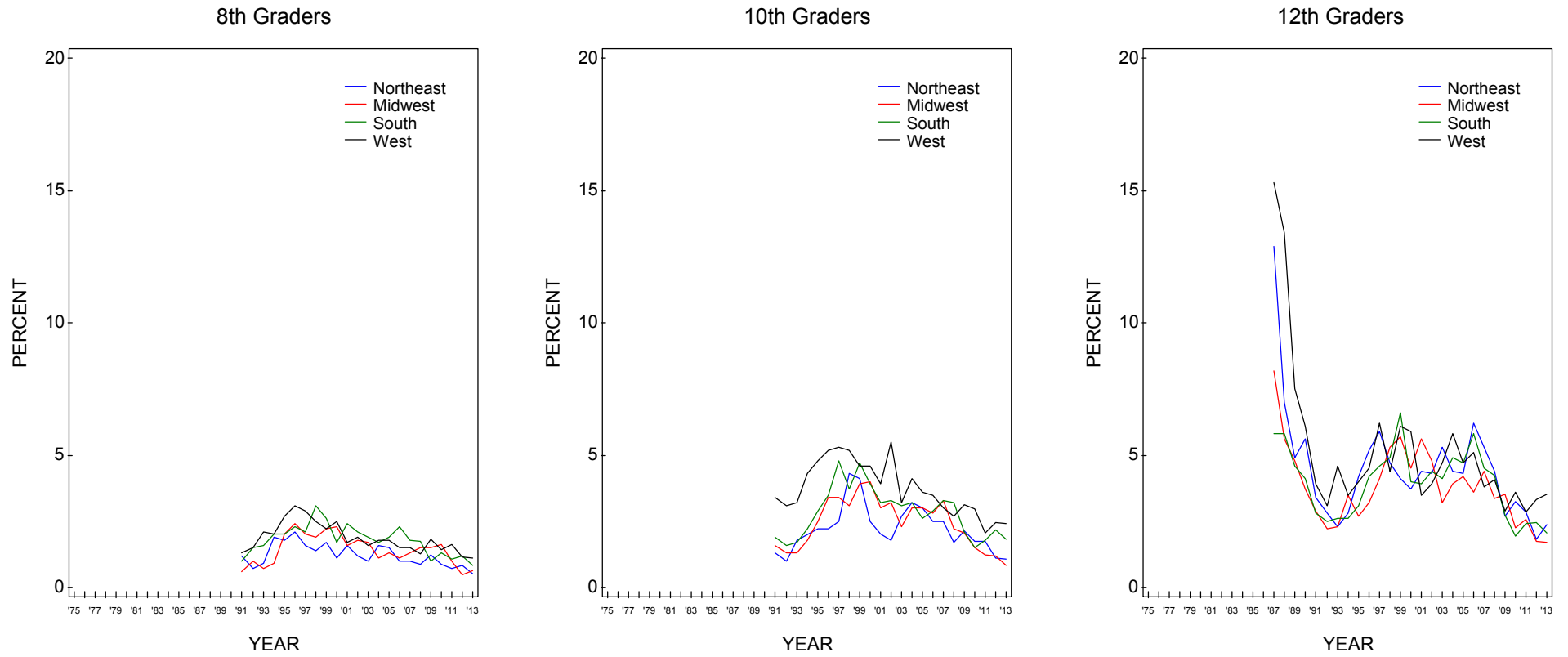
**FIGURE 92**  
**Other Cocaine: Trends in Annual Prevalence by College Plans**



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

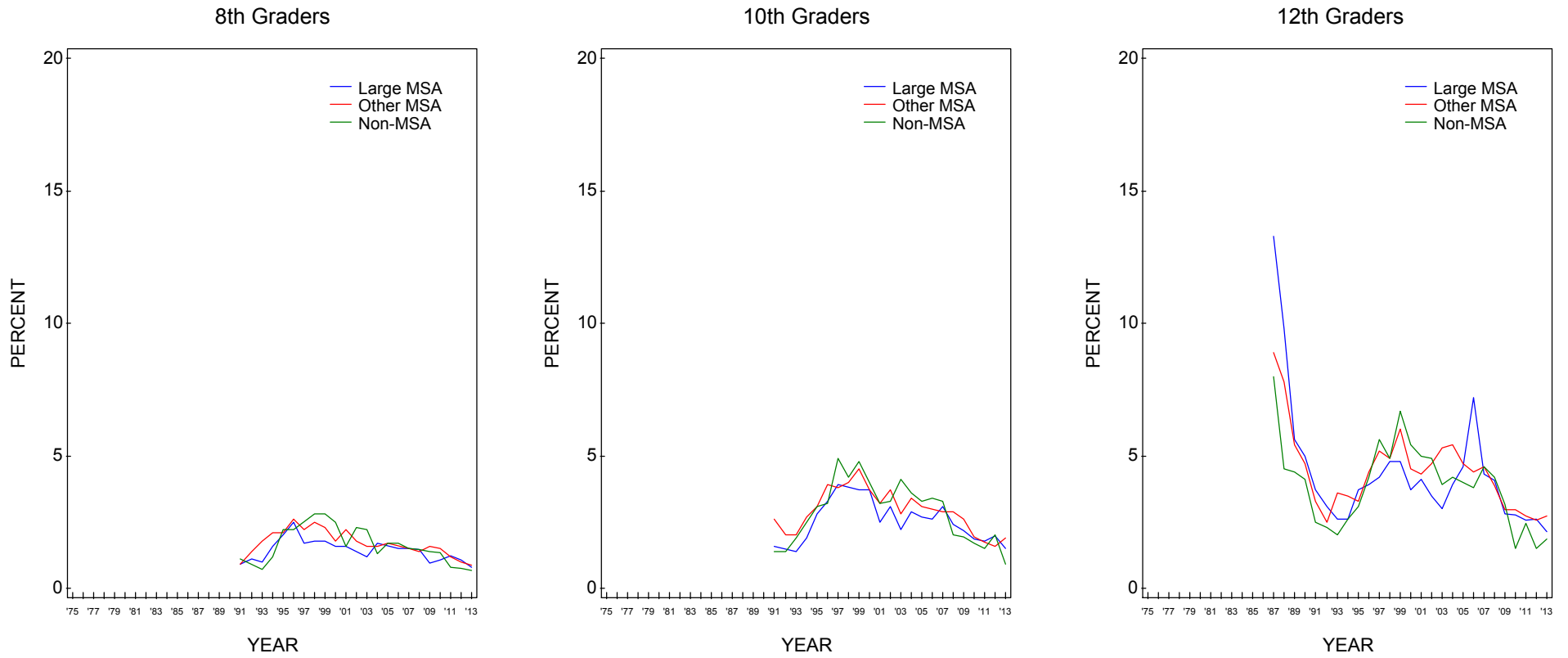


**FIGURE 93**  
**Other Cocaine: Trends in Annual Prevalence by Region**



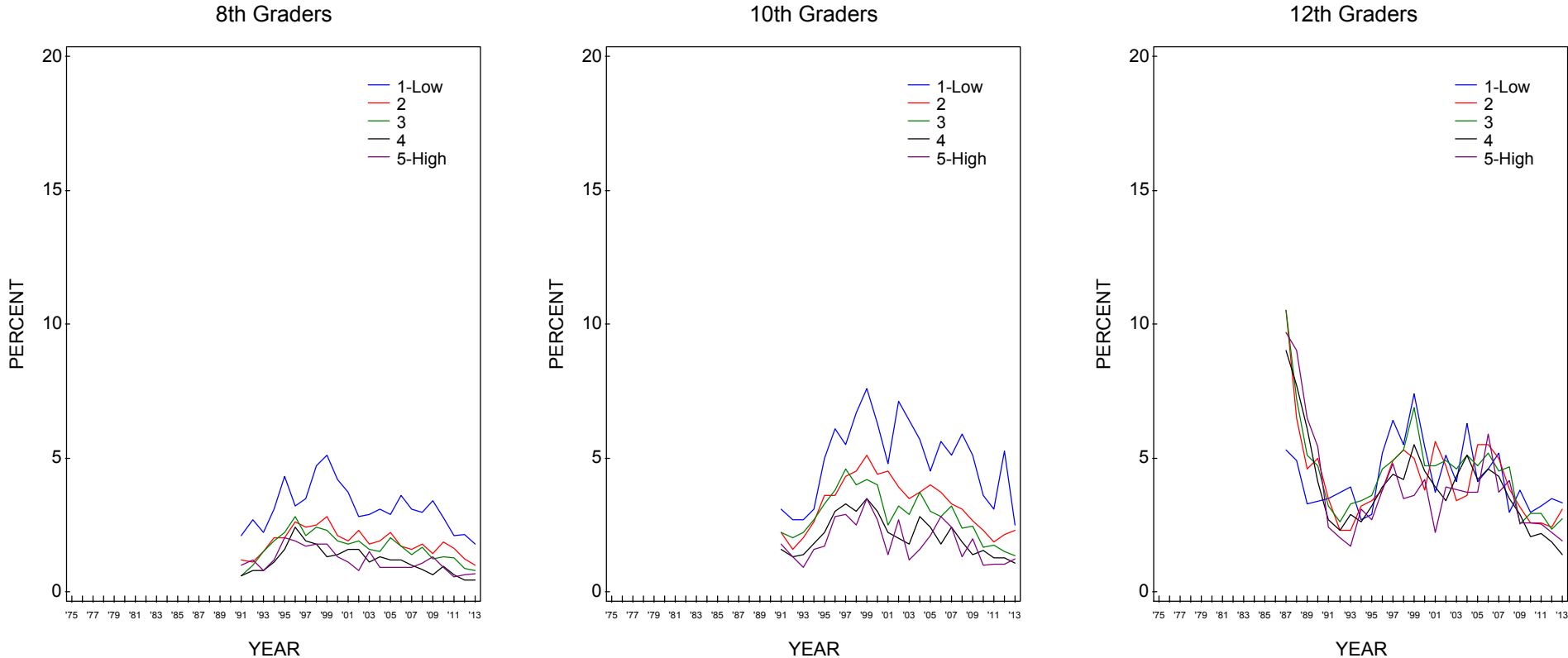
Source. The Monitoring the Future study, the University of Michigan.

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



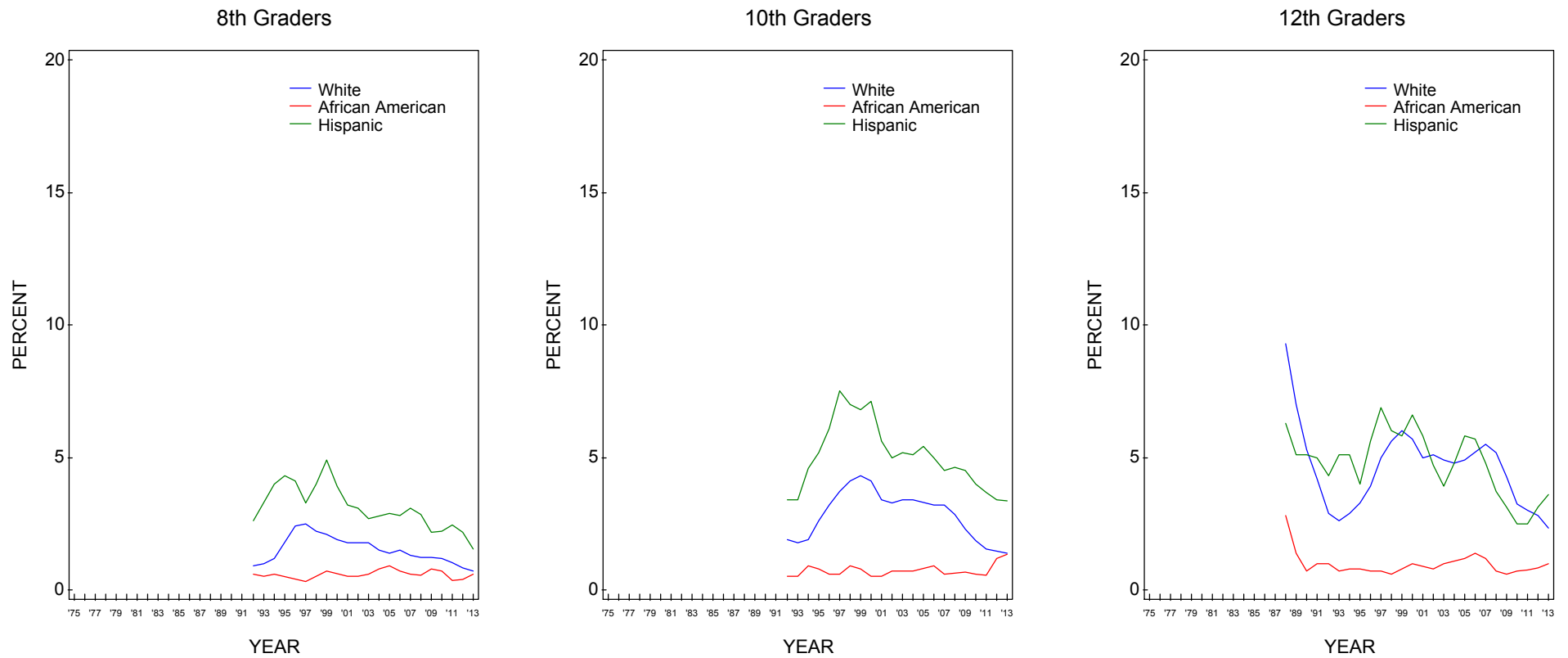
Source. The Monitoring the Future study, the University of Michigan.

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



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

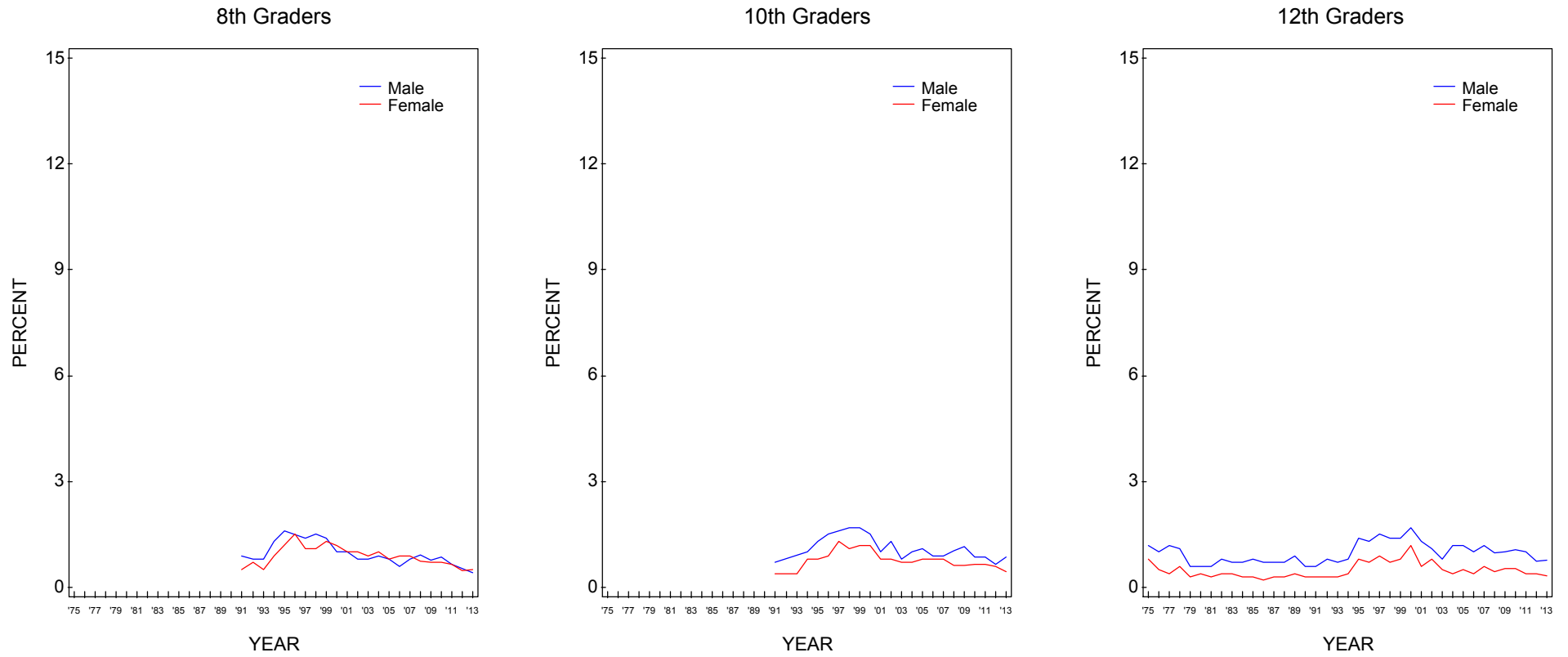
**FIGURE 96**  
**Other Cocaine: Trends in Annual Prevalence by Race/Ethnicity\***



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

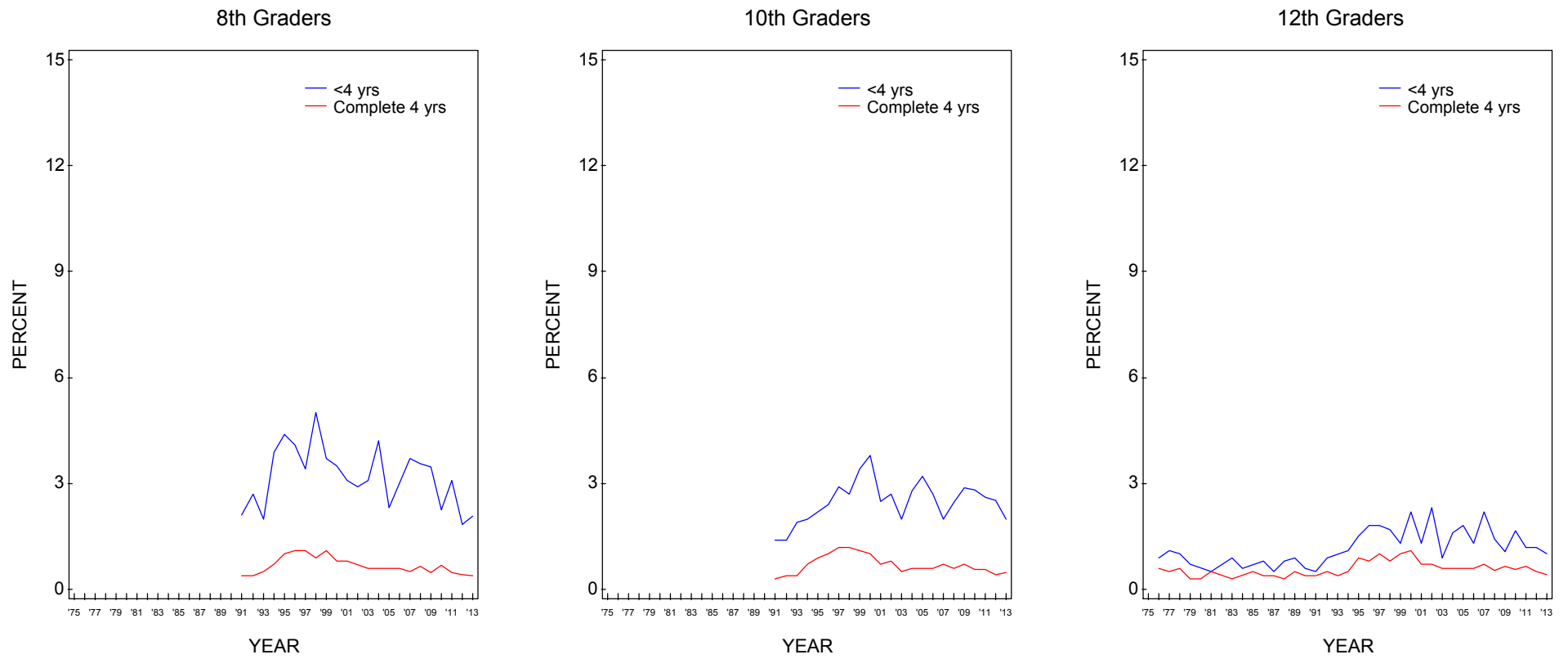
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 97**  
**Heroin: Trends in Annual Prevalence by Gender**



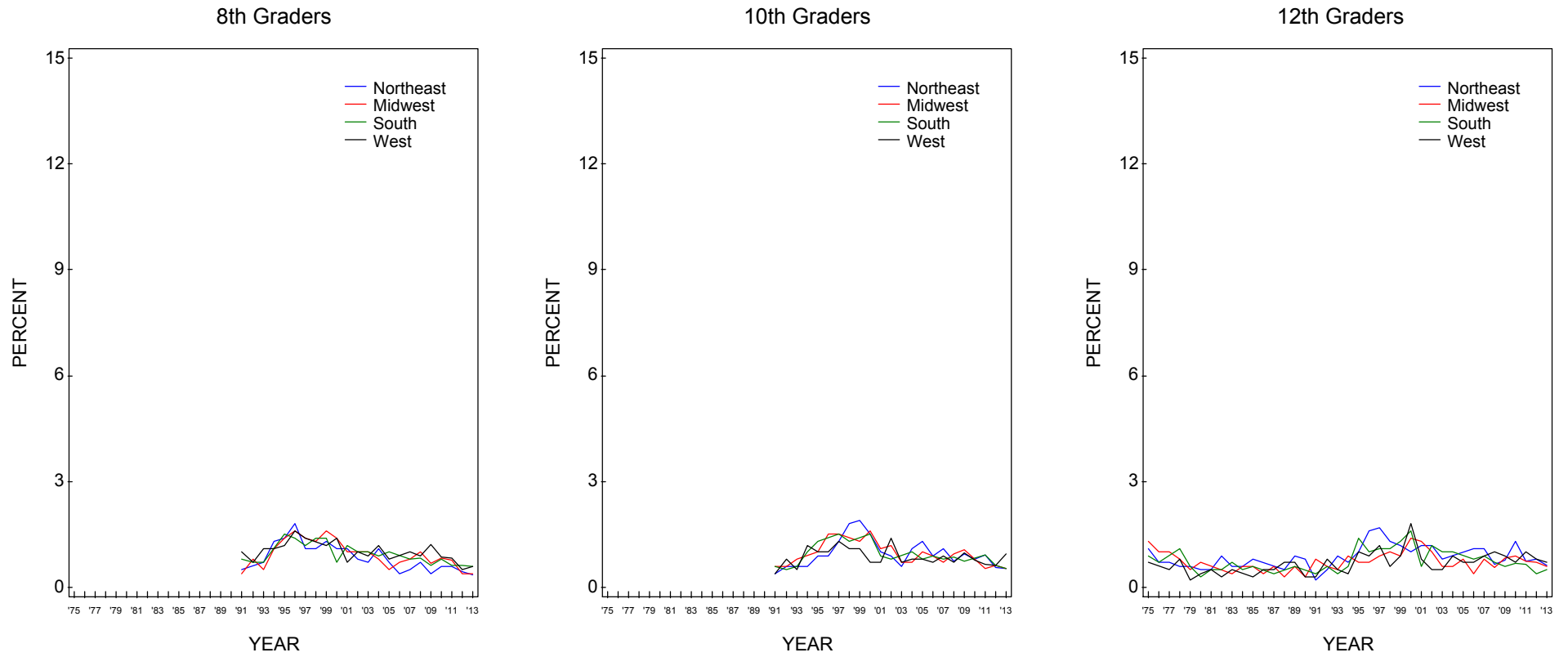
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 98**  
**Heroin: Trends in Annual Prevalence by College Plans**



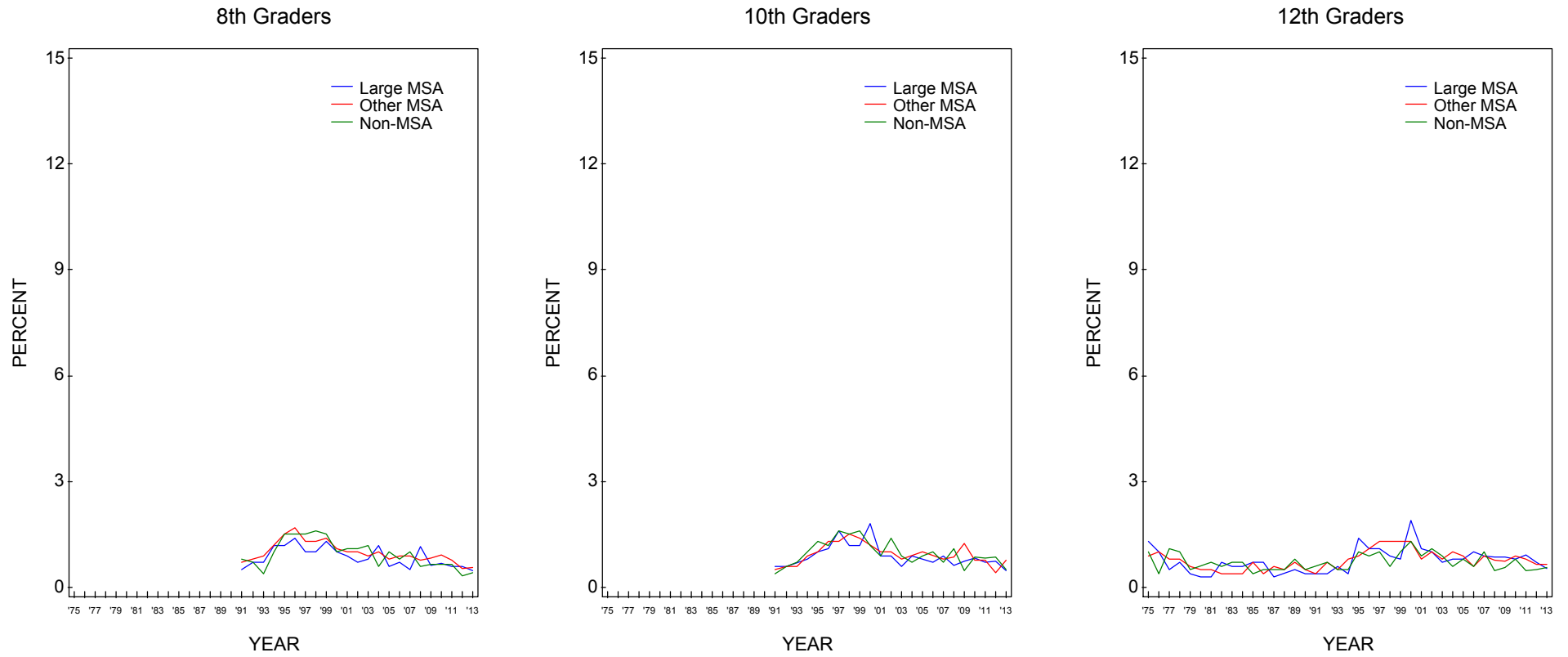
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 99**  
**Heroin: Trends in Annual Prevalence by Region**



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

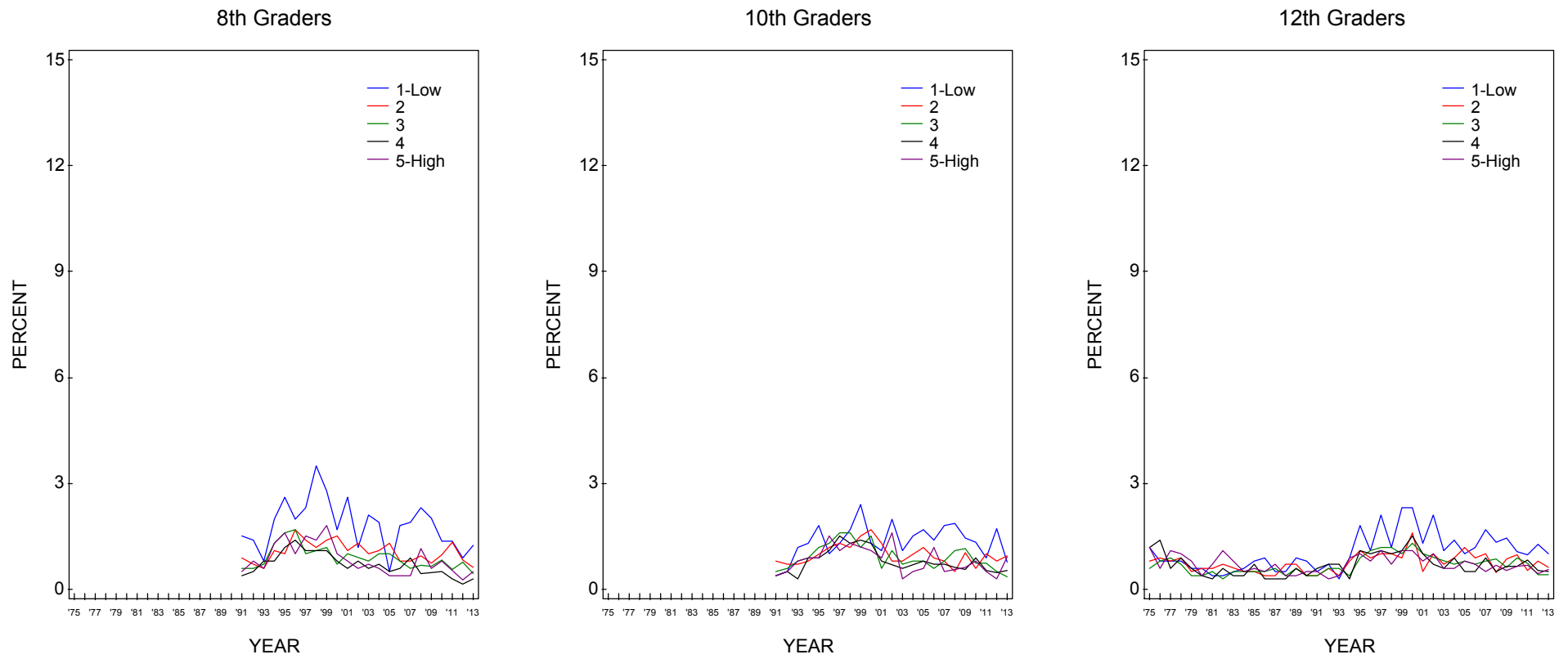
**FIGURE 100**  
**Heroin: Trends in Annual Prevalence by Population Density**



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

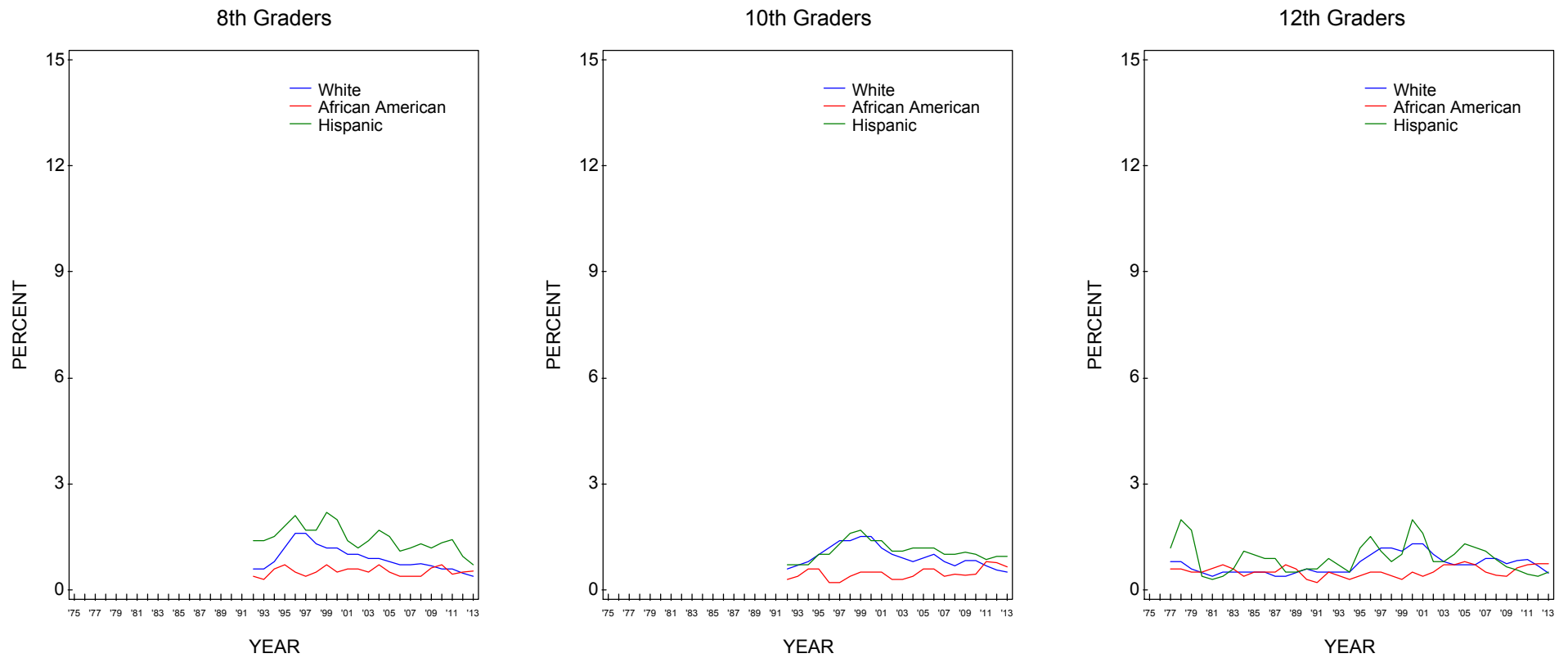


**FIGURE 101**  
**Heroin: Trends in Annual Prevalence by Average Education Level of Parents**



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

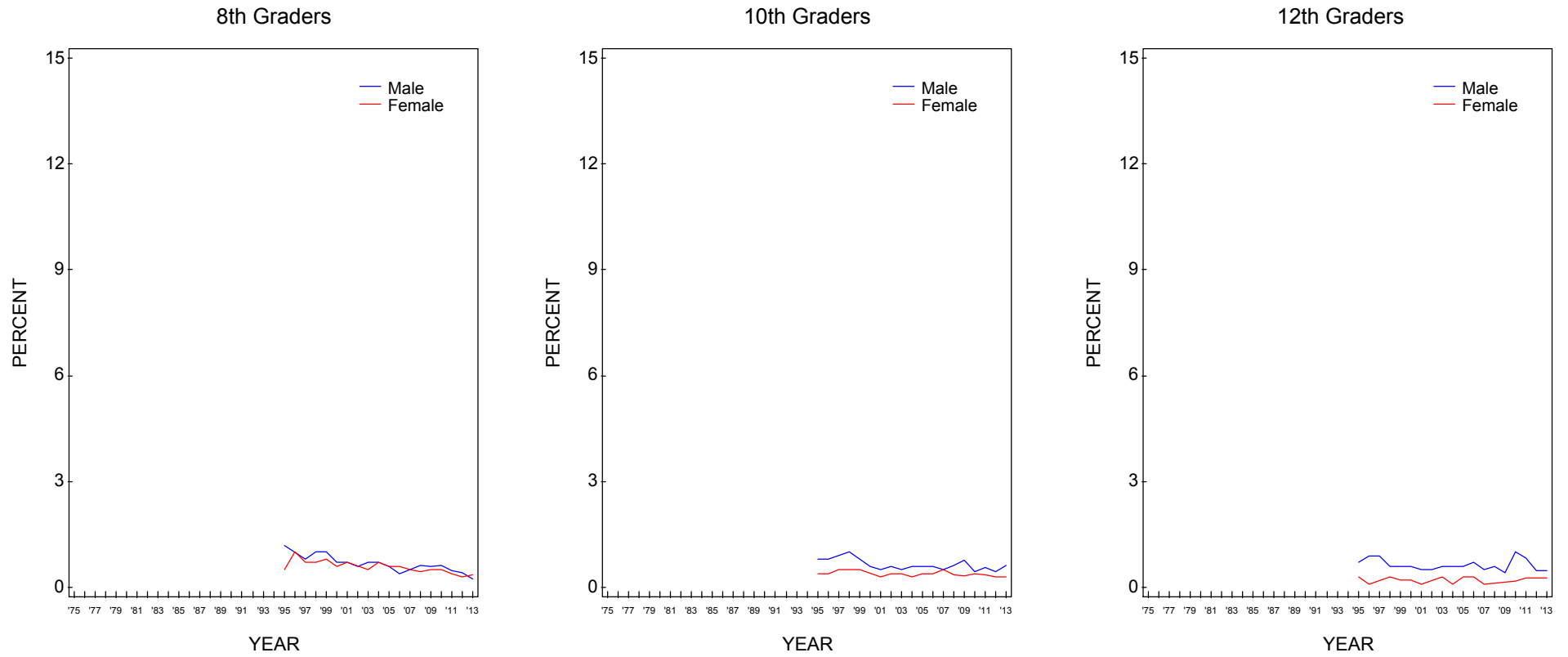
**FIGURE 102**  
**Heroin: Trends in Annual Prevalence by Race/Ethnicity\***



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

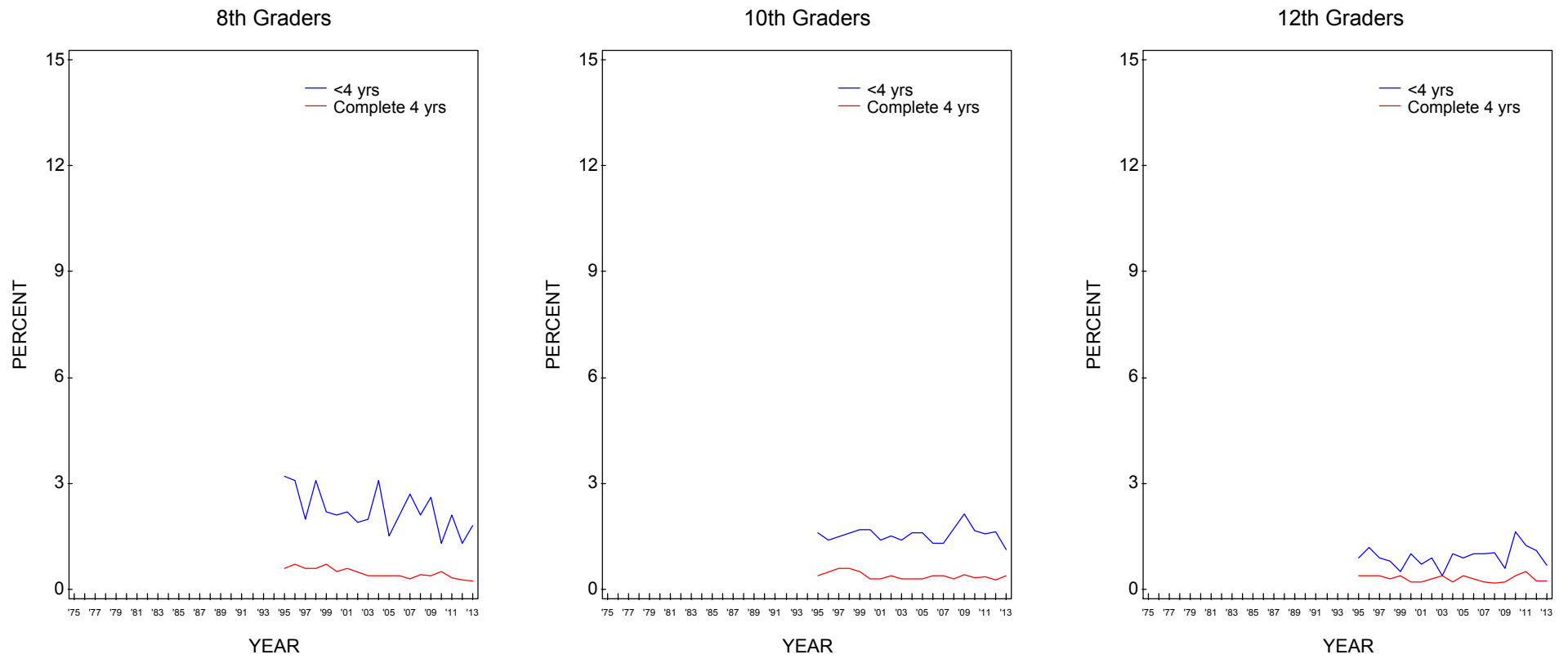
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 103**  
**Heroin with a Needle: Trends in Annual Prevalence by Gender**



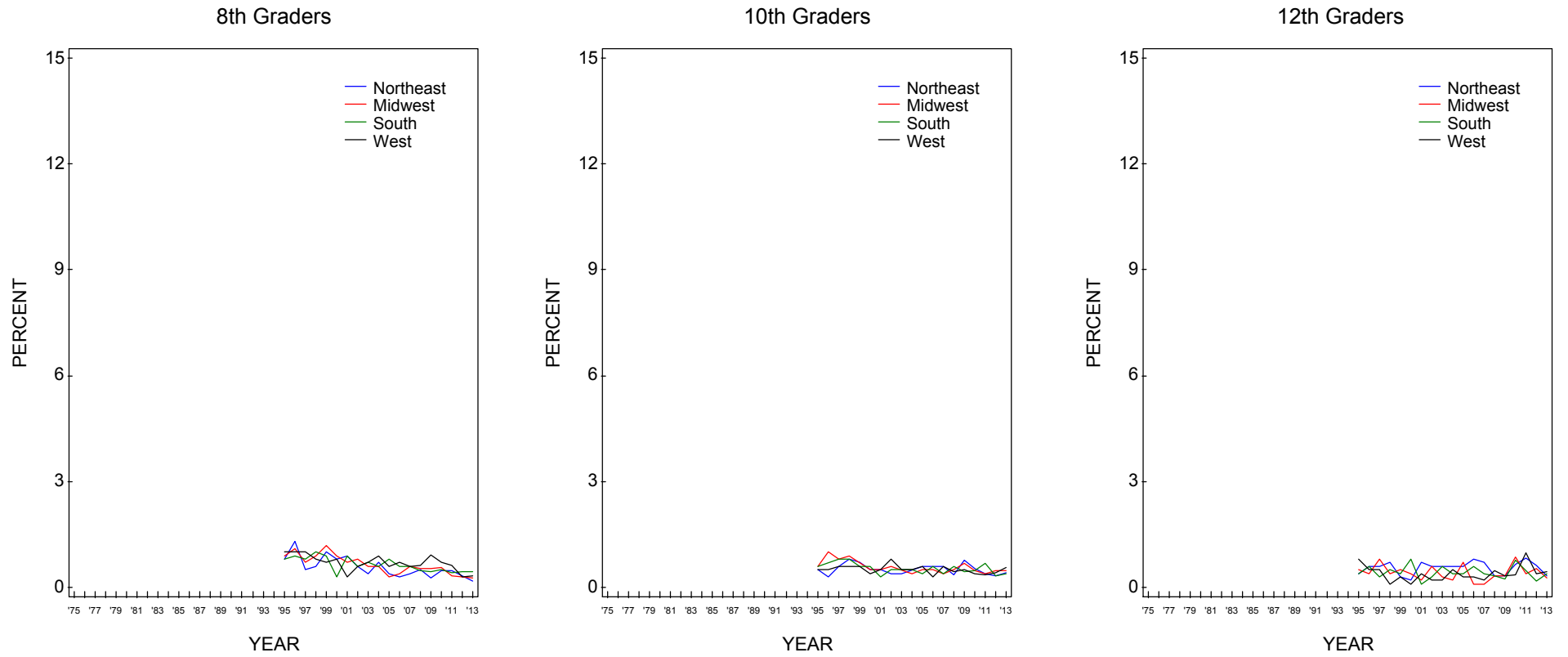
Source. The Monitoring the Future study, the University of Michigan.

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



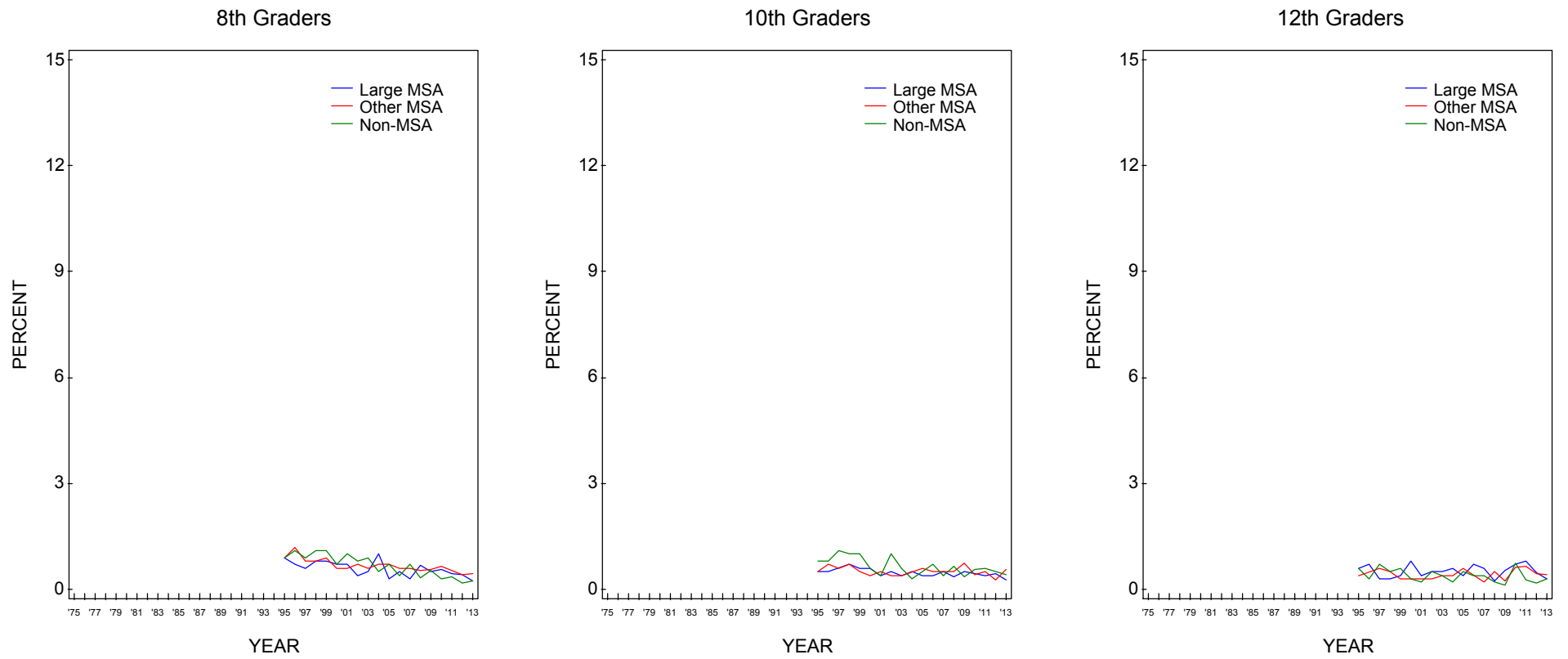
Source. The Monitoring the Future study, the University of Michigan.

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



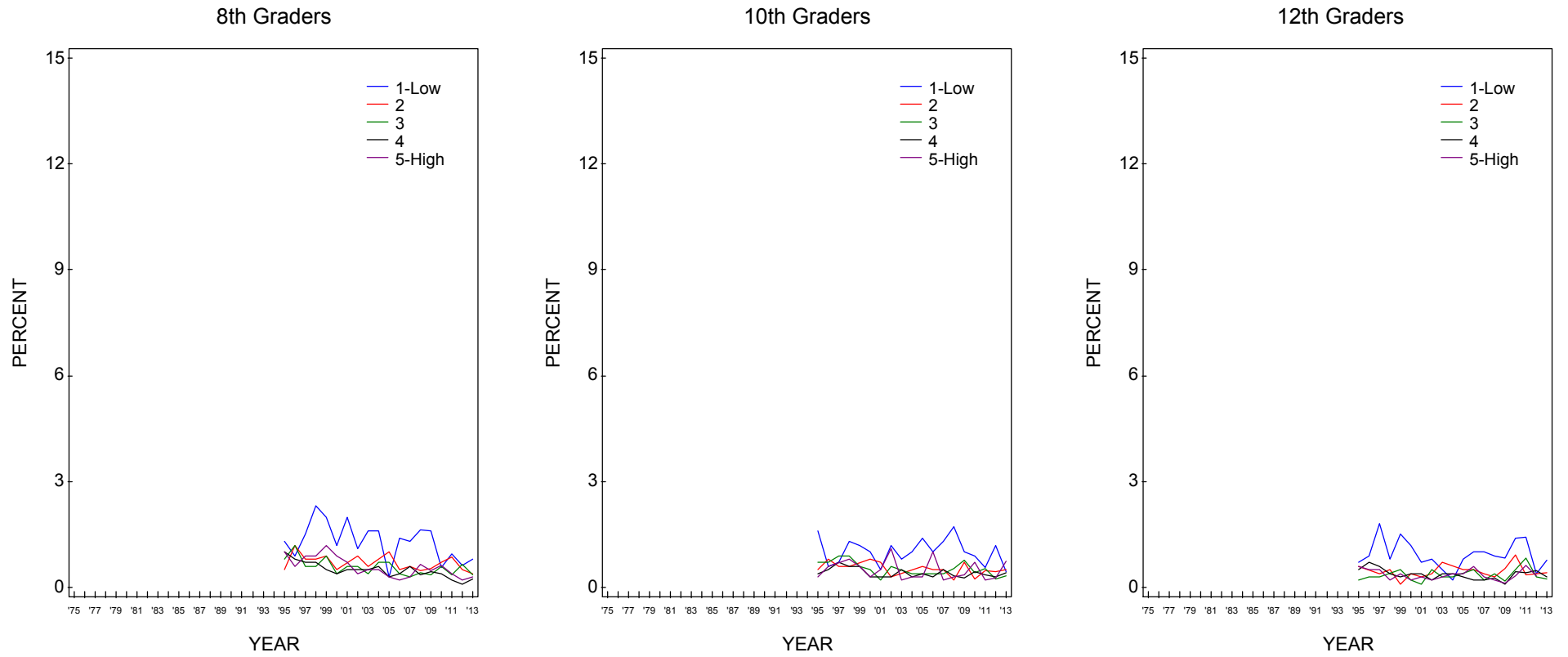
Source. The Monitoring the Future study, the University of Michigan.

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



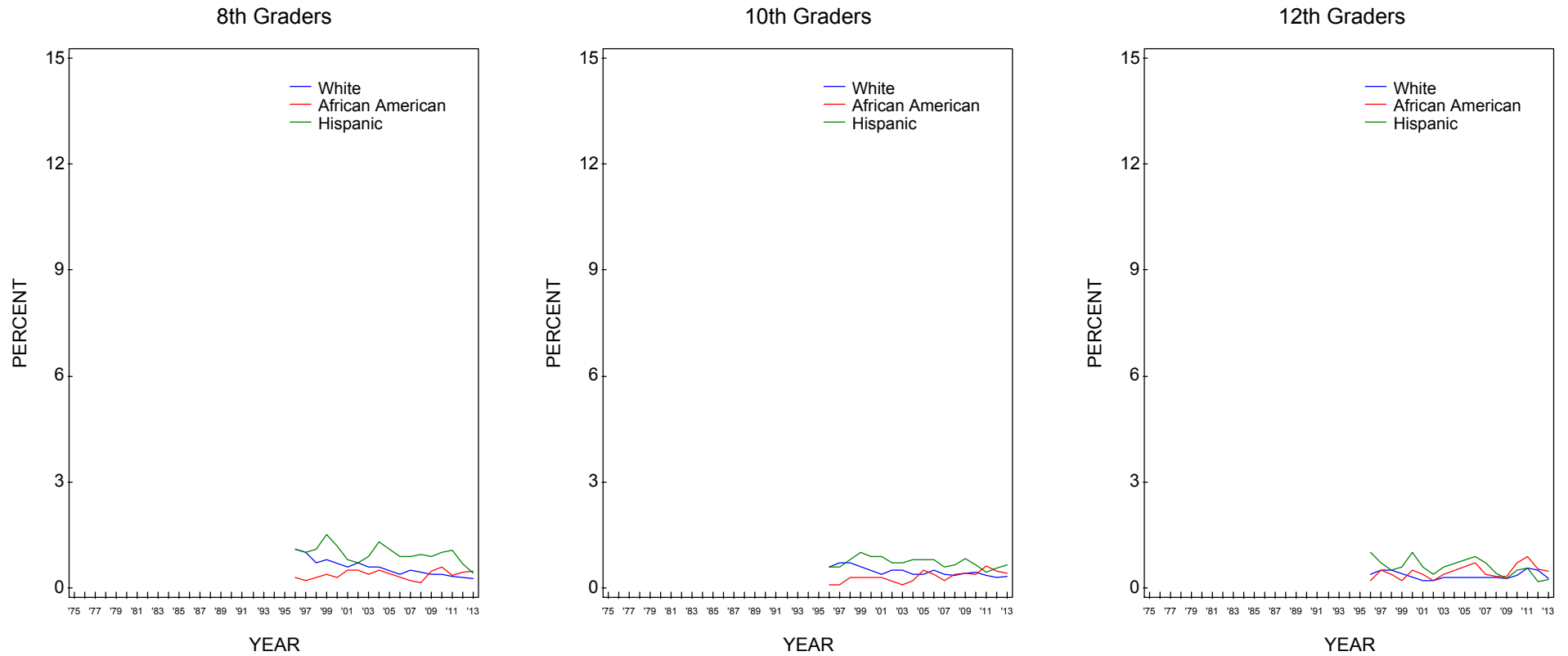
Source. The Monitoring the Future study, the University of Michigan.

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



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

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

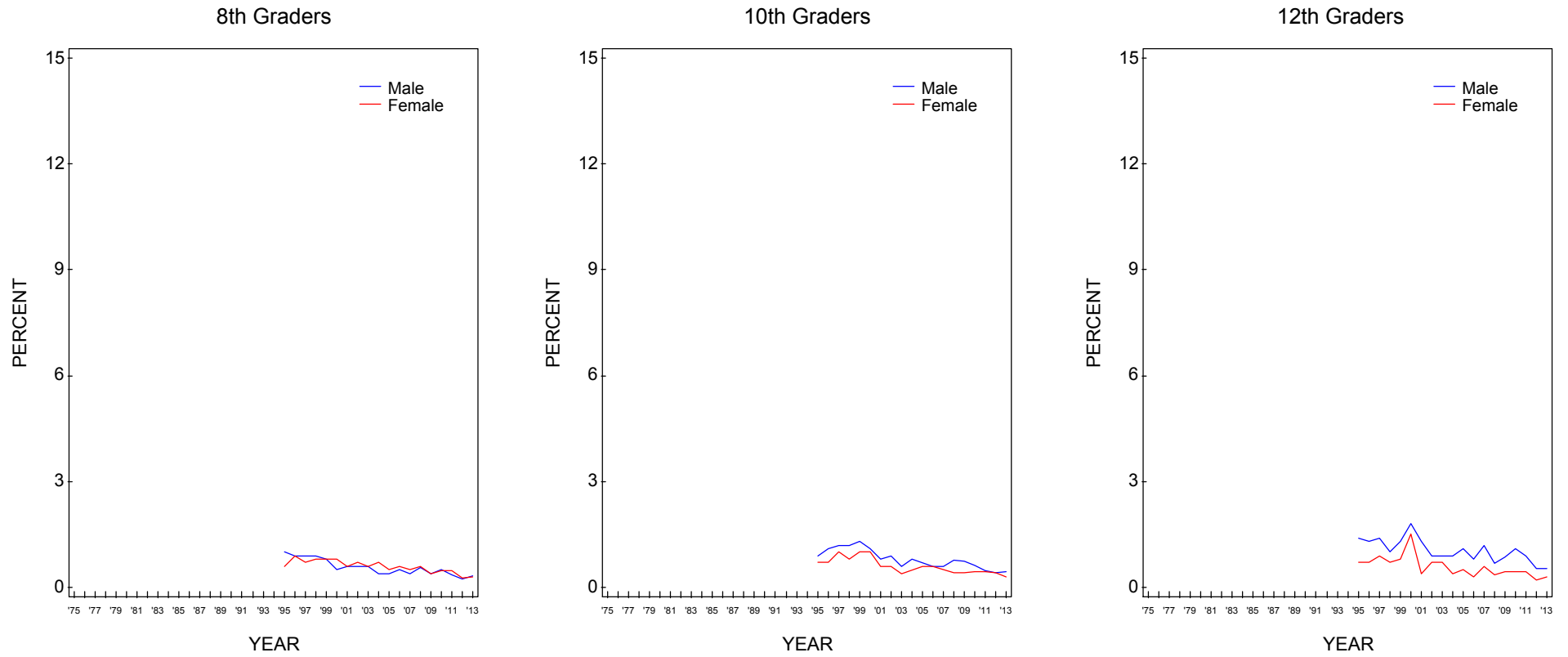


Source. The Monitoring the Future study, the University of Michigan.

\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

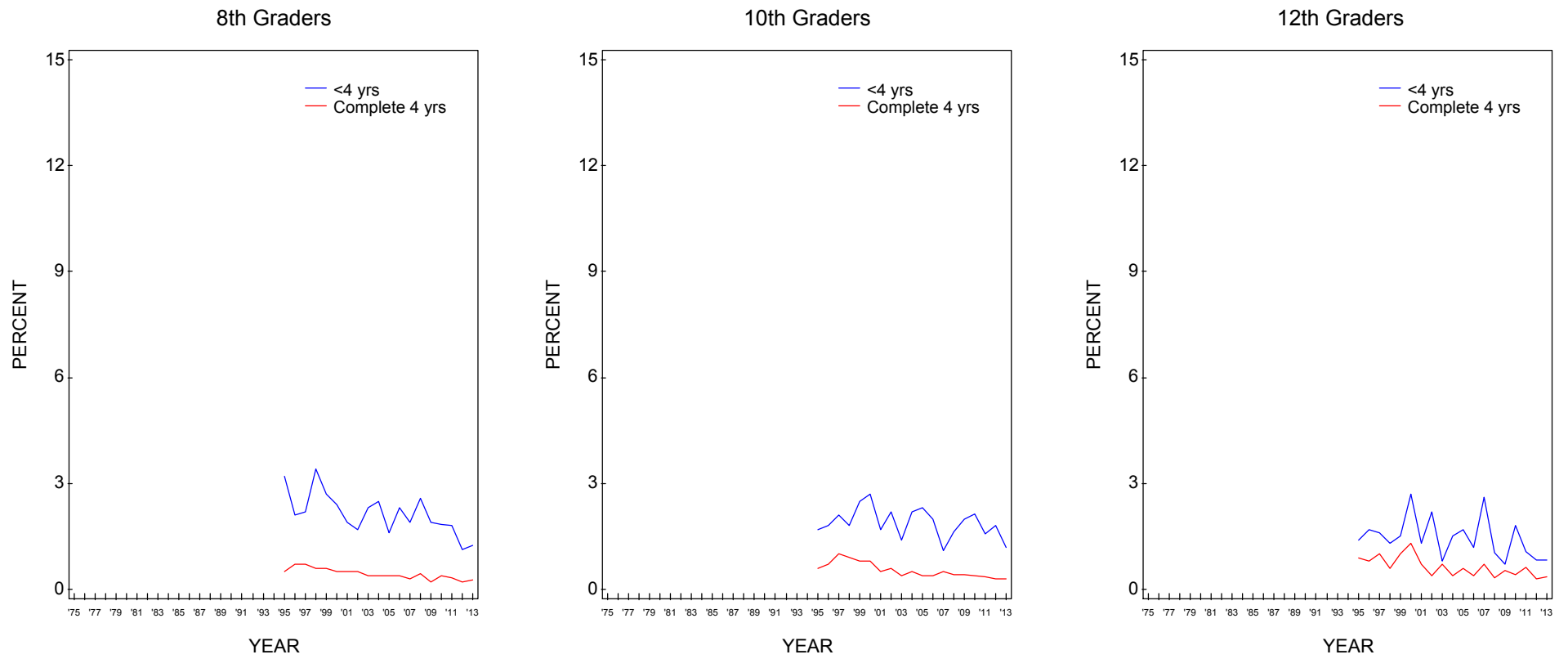


**FIGURE 109**  
**Heroin without a Needle: Trends in Annual Prevalence by Gender**



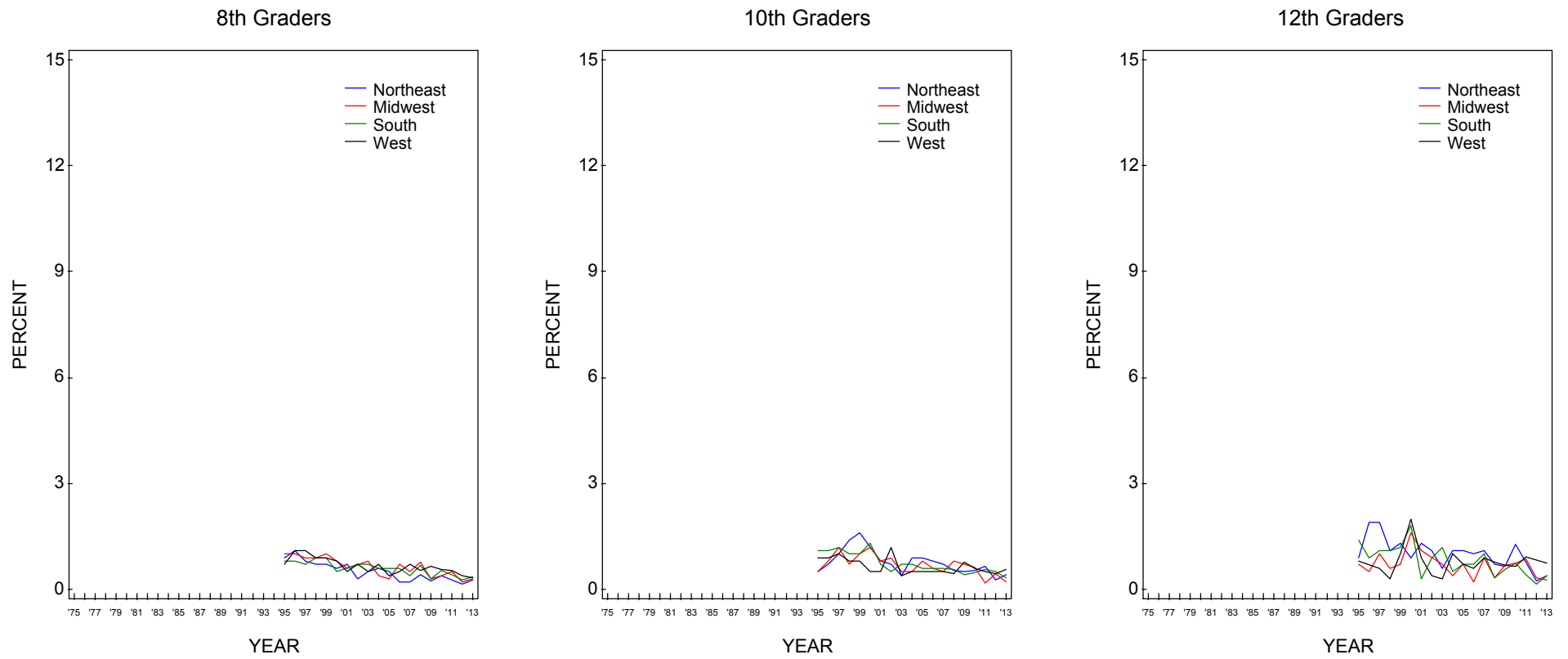
Source. The Monitoring the Future study, the University of Michigan.

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



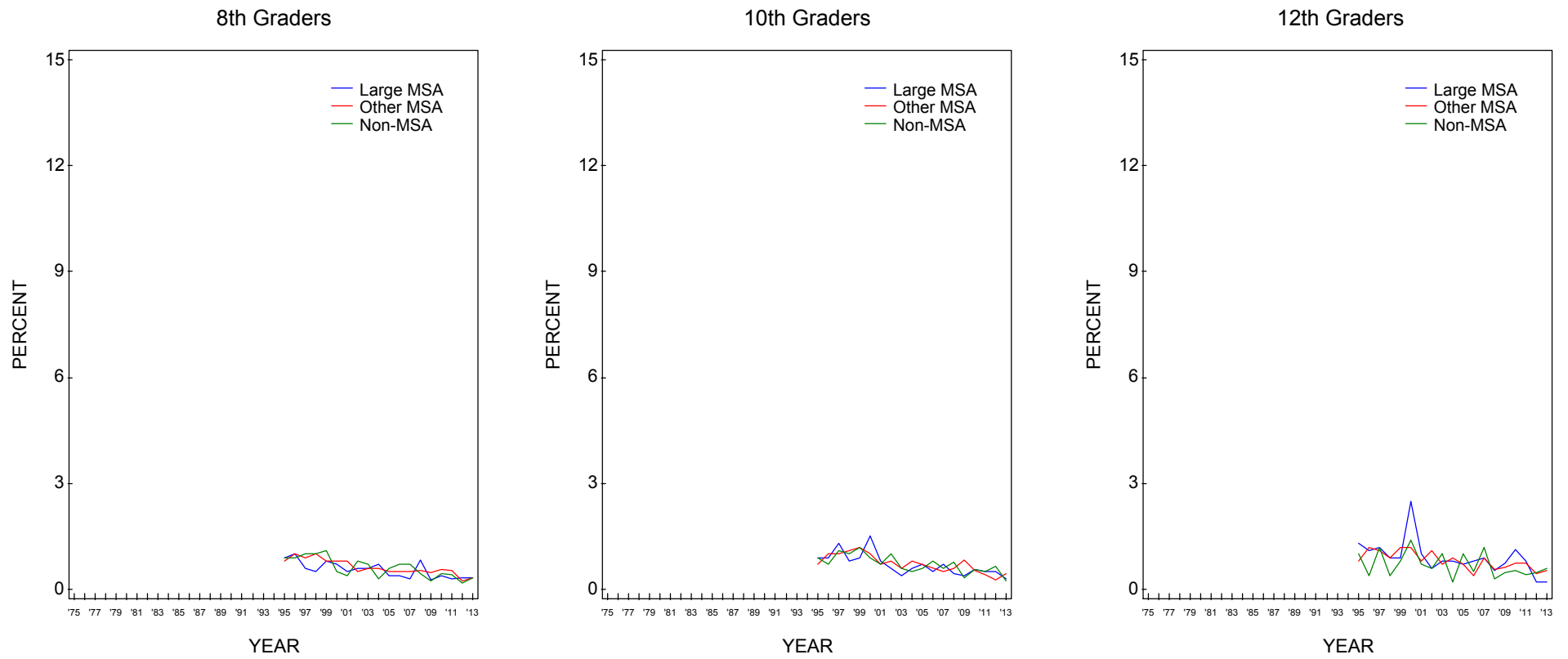
Source. The Monitoring the Future study, the University of Michigan.

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



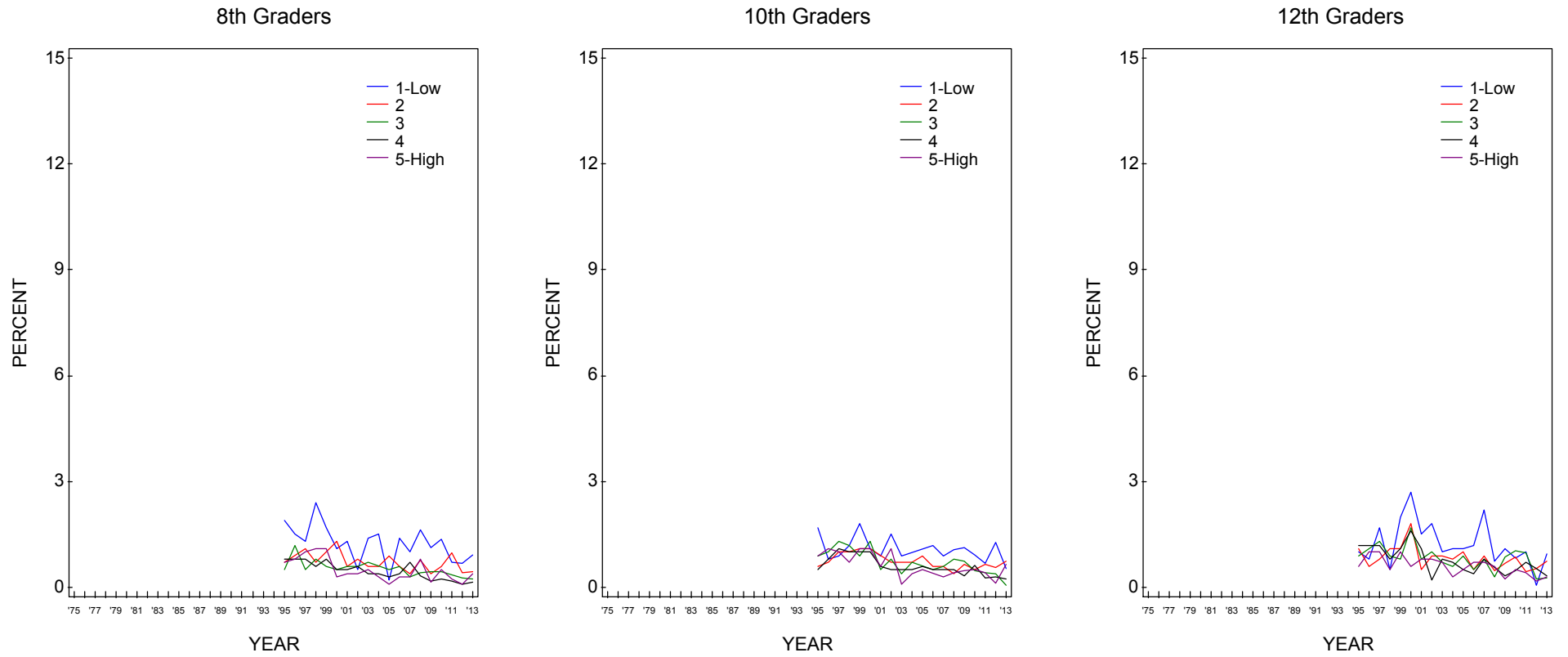
Source. The Monitoring the Future study, the University of Michigan.

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



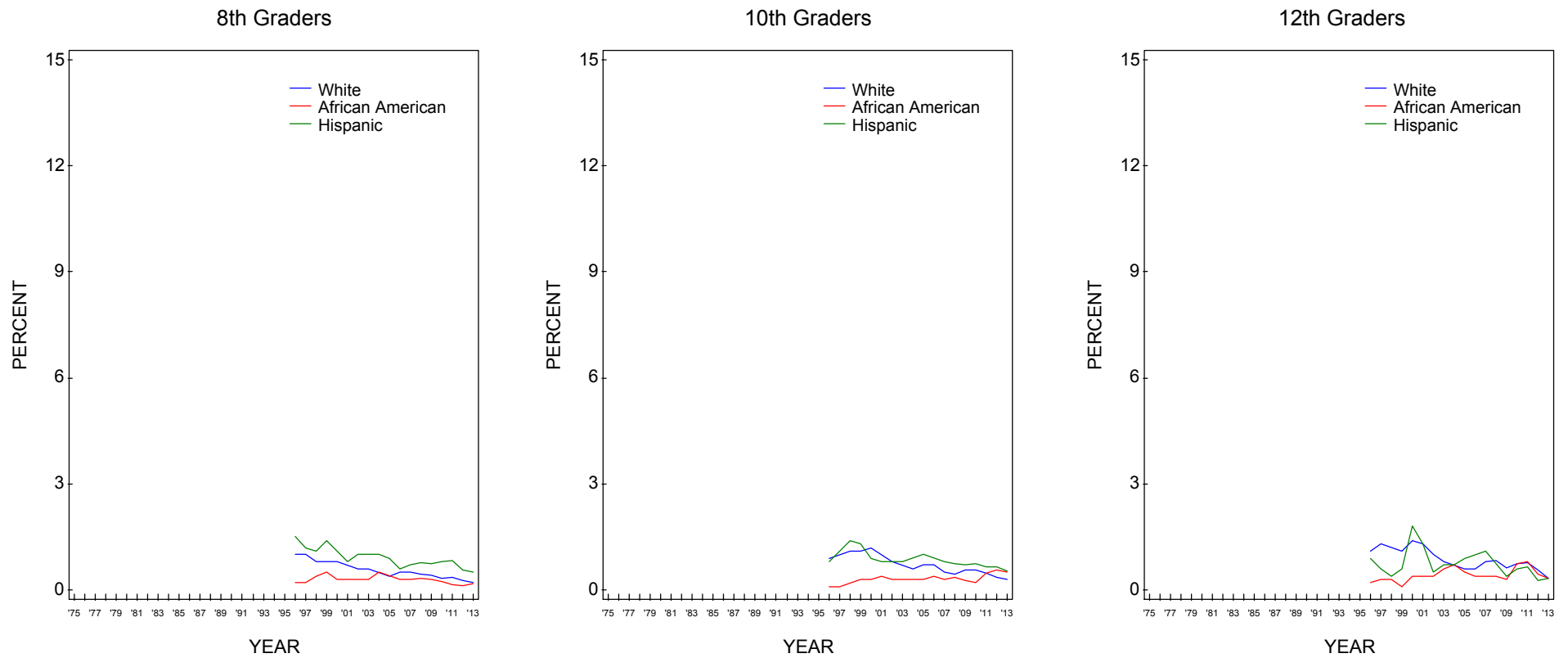
Source. The Monitoring the Future study, the University of Michigan.

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



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

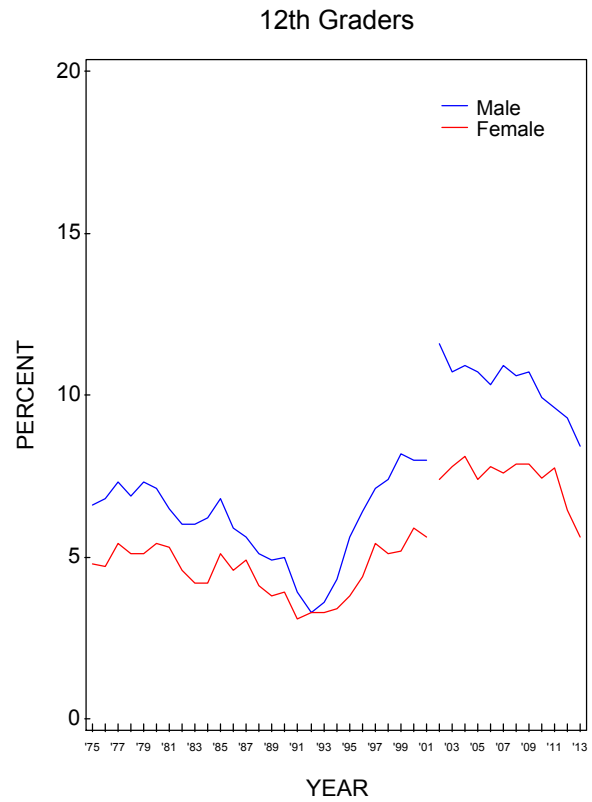
**FIGURE 114**  
**Heroin without a Needle: Trends in Annual Prevalence by Race/Ethnicity\***



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

\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

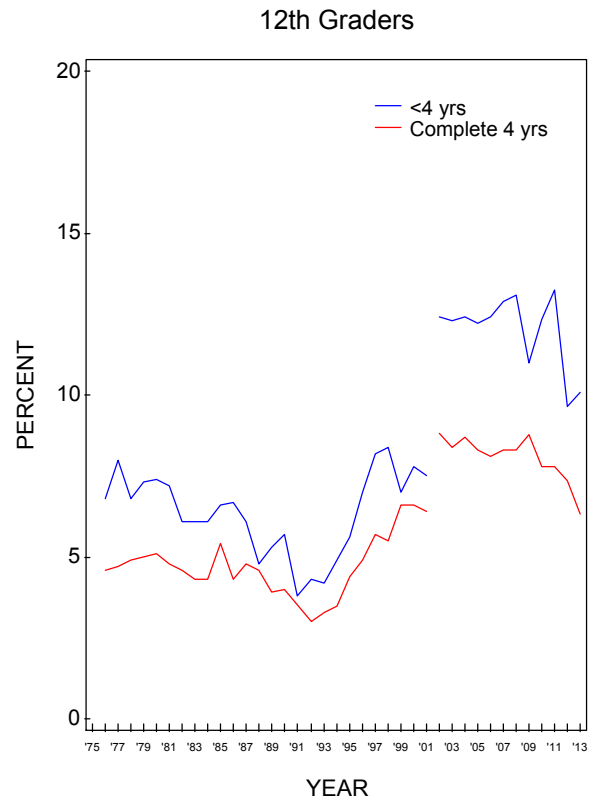
**FIGURE 115**  
**Narcotics other than Heroin:\* Trends in Annual Prevalence by Gender**



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

\*Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Refer to corresponding tables for further details.

**FIGURE 116**  
**Narcotics other than Heroin:\* Trends in Annual Prevalence by College Plans**

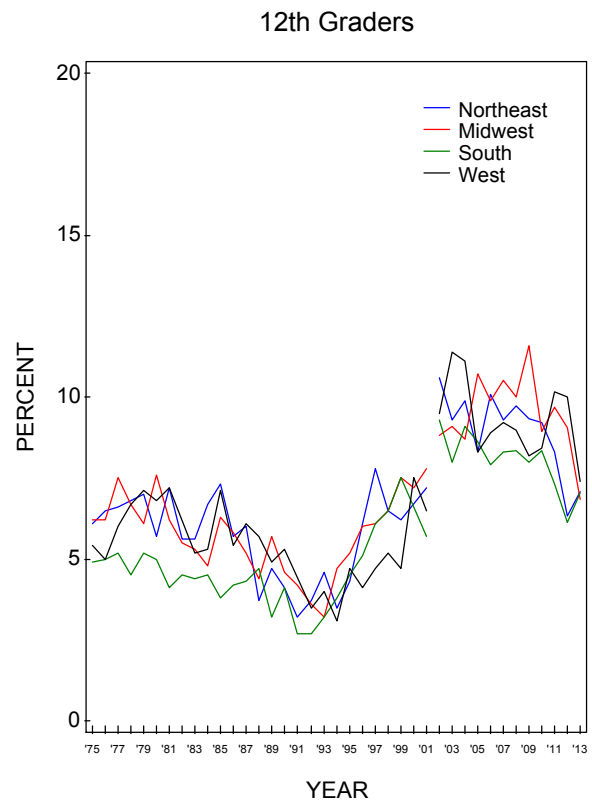


Source. The Monitoring the Future study, the University of Michigan.

\*Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Refer to corresponding tables for further details.



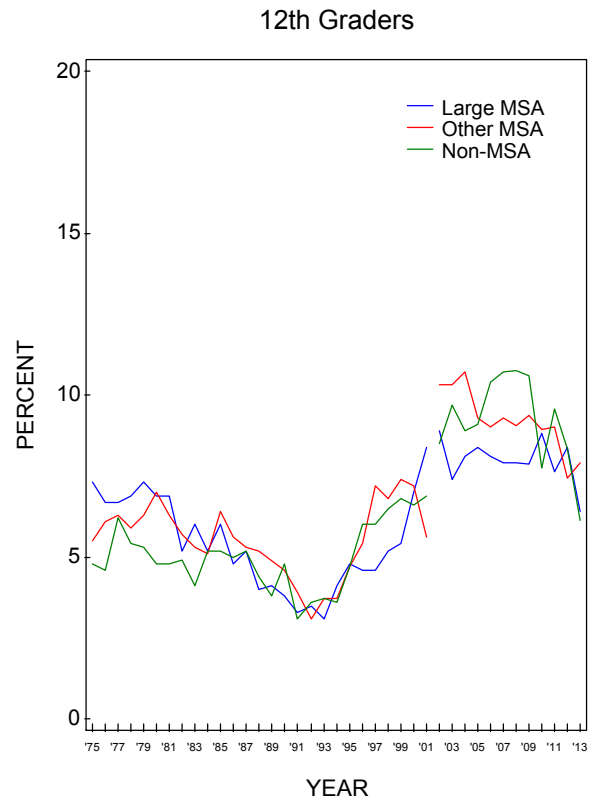
**FIGURE 117**  
**Narcotics other than Heroin:\* Trends in Annual Prevalence by Region**



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

\*Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Refer to corresponding tables for further details.

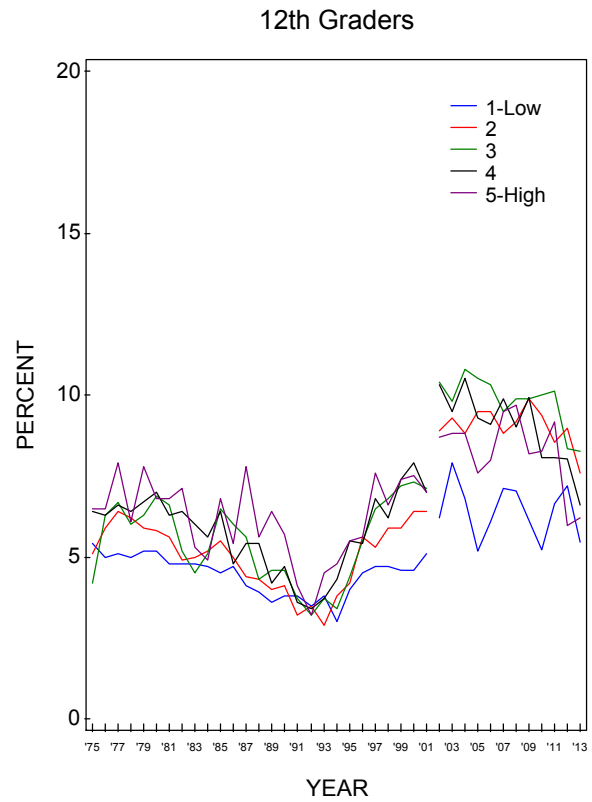
**FIGURE 118**  
**Narcotics other than Heroin:\* Trends in Annual Prevalence by Population Density**



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

\*Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Refer to corresponding tables for further details.

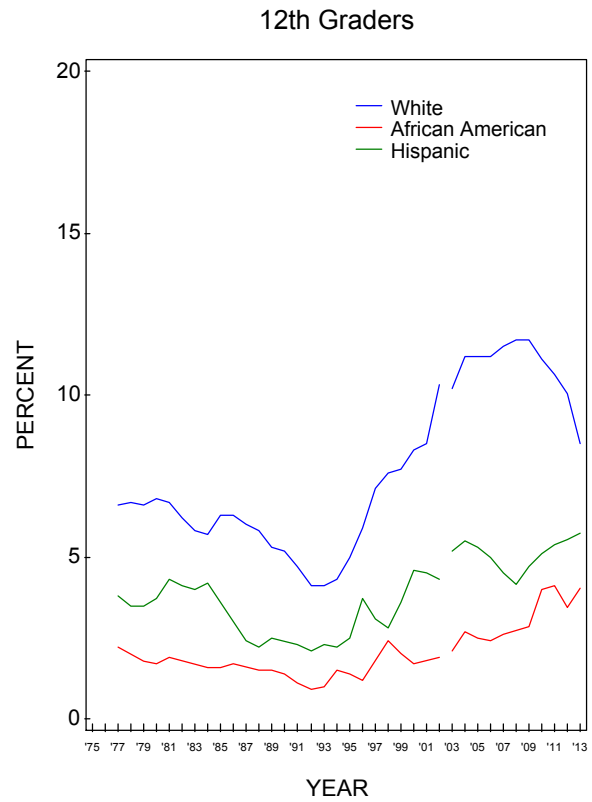
**FIGURE 119**  
**Narcotics other than Heroin:\* Trends in Annual Prevalence by Average Education Level of Parents**



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

\*Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Refer to corresponding tables for further details.

**FIGURE 120**  
**Narcotics other than Heroin:\* Trends in Annual Prevalence by Race/Ethnicity\*\***

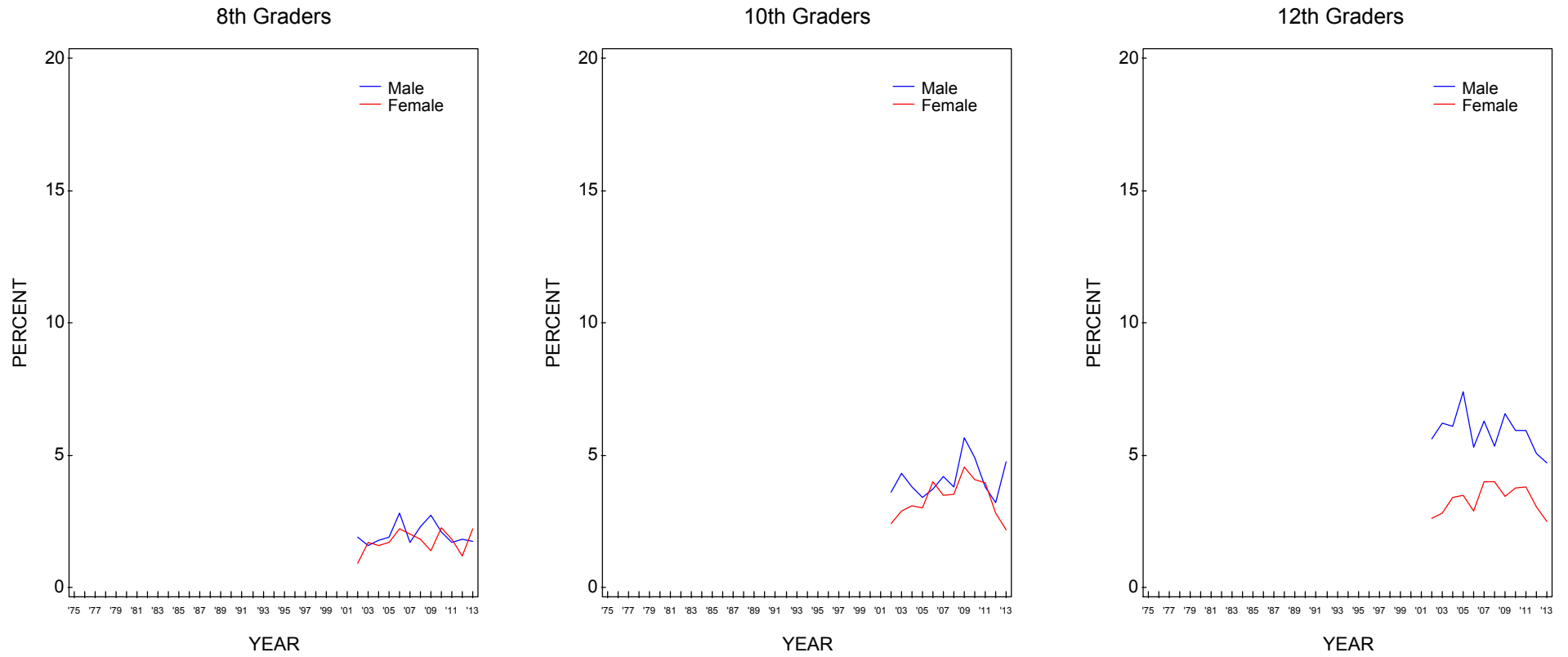


Source. The Monitoring the Future study, the University of Michigan.

\*Beginning in 2002, a revised set of questions on use of narcotics other than heroin was introduced. Refer to corresponding tables for further details.

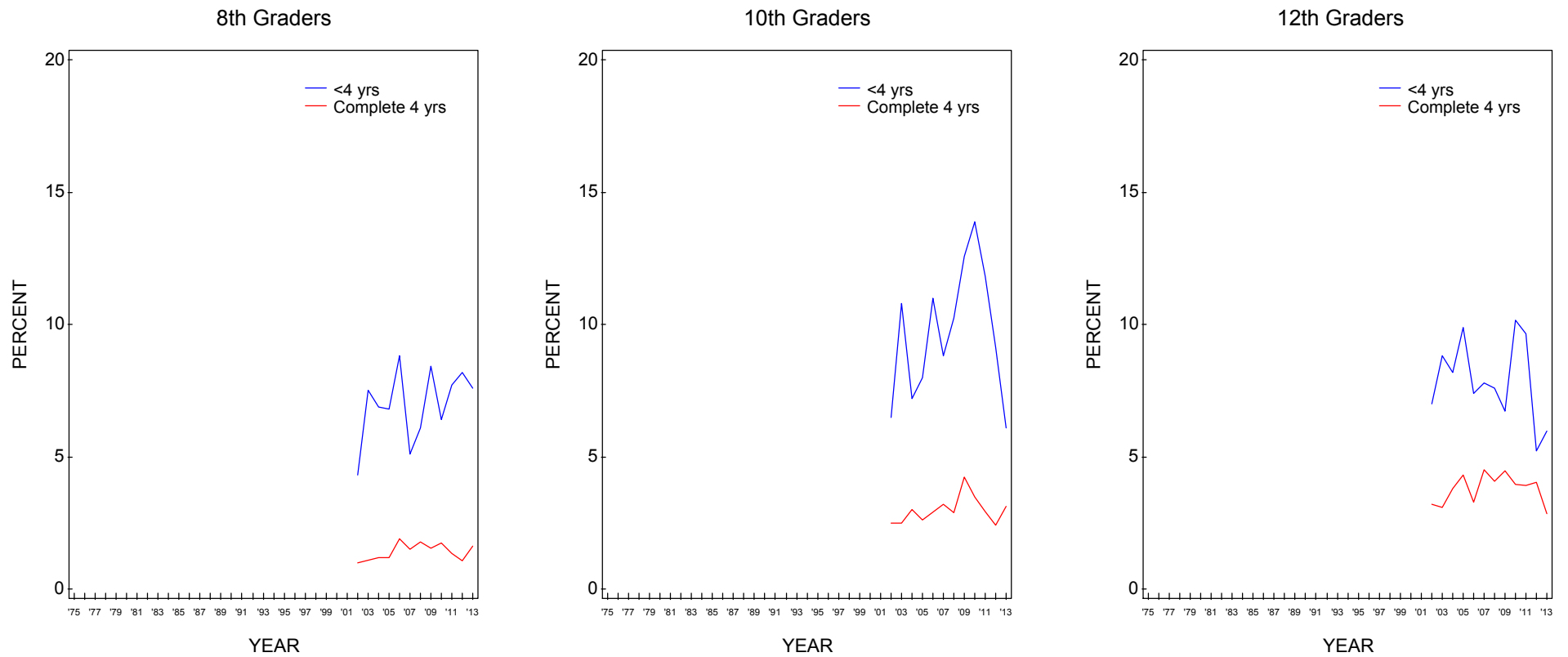
\*\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 121**  
**OxyContin: Trends in Annual Prevalence by Gender**



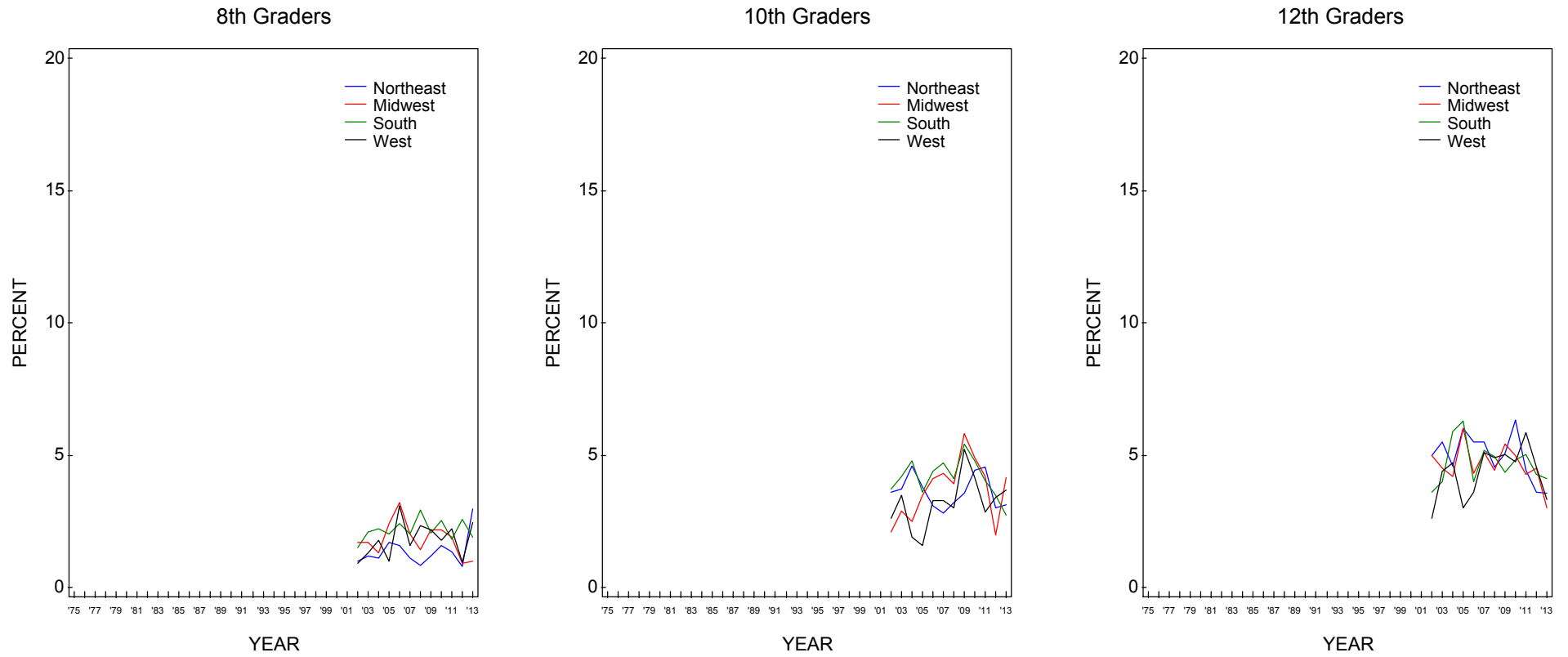
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 122**  
**OxyContin: Trends in Annual Prevalence by College Plans**



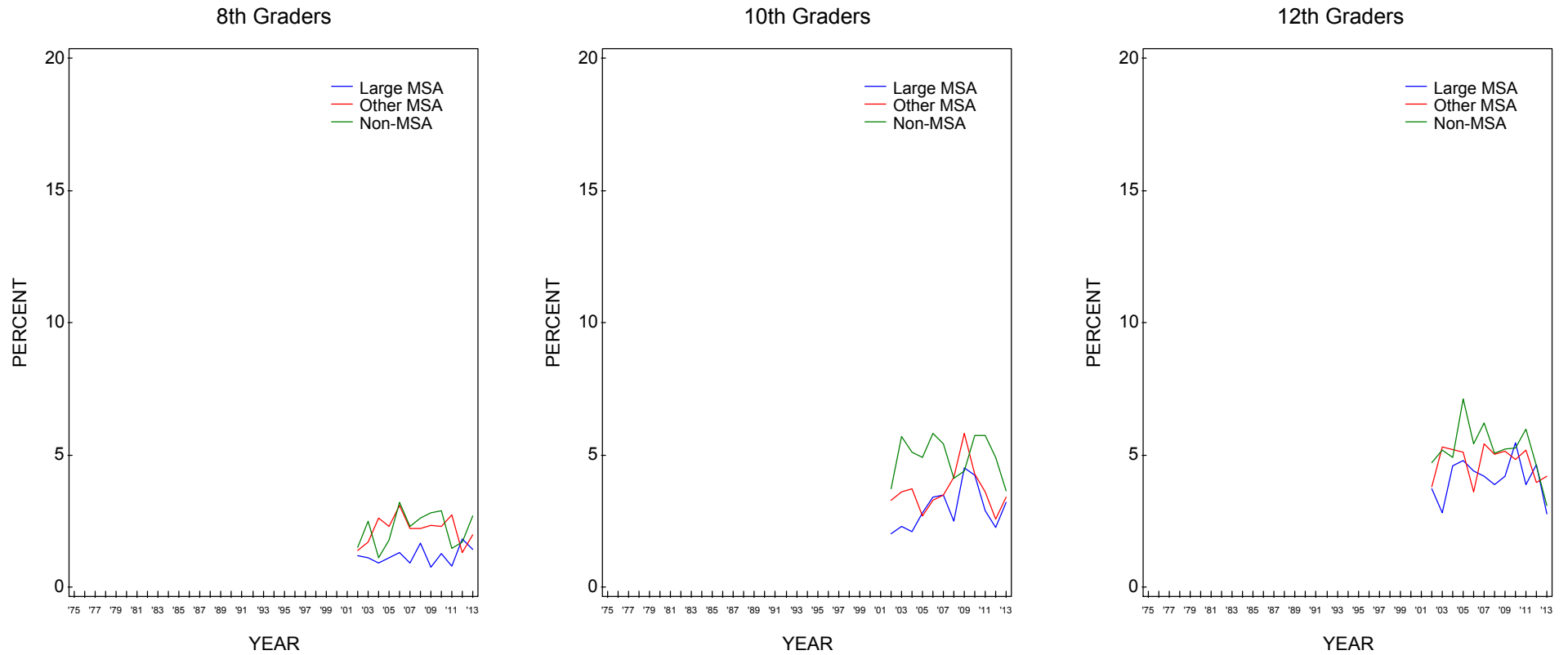
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 123**  
**OxyContin: Trends in Annual Prevalence by Region**



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

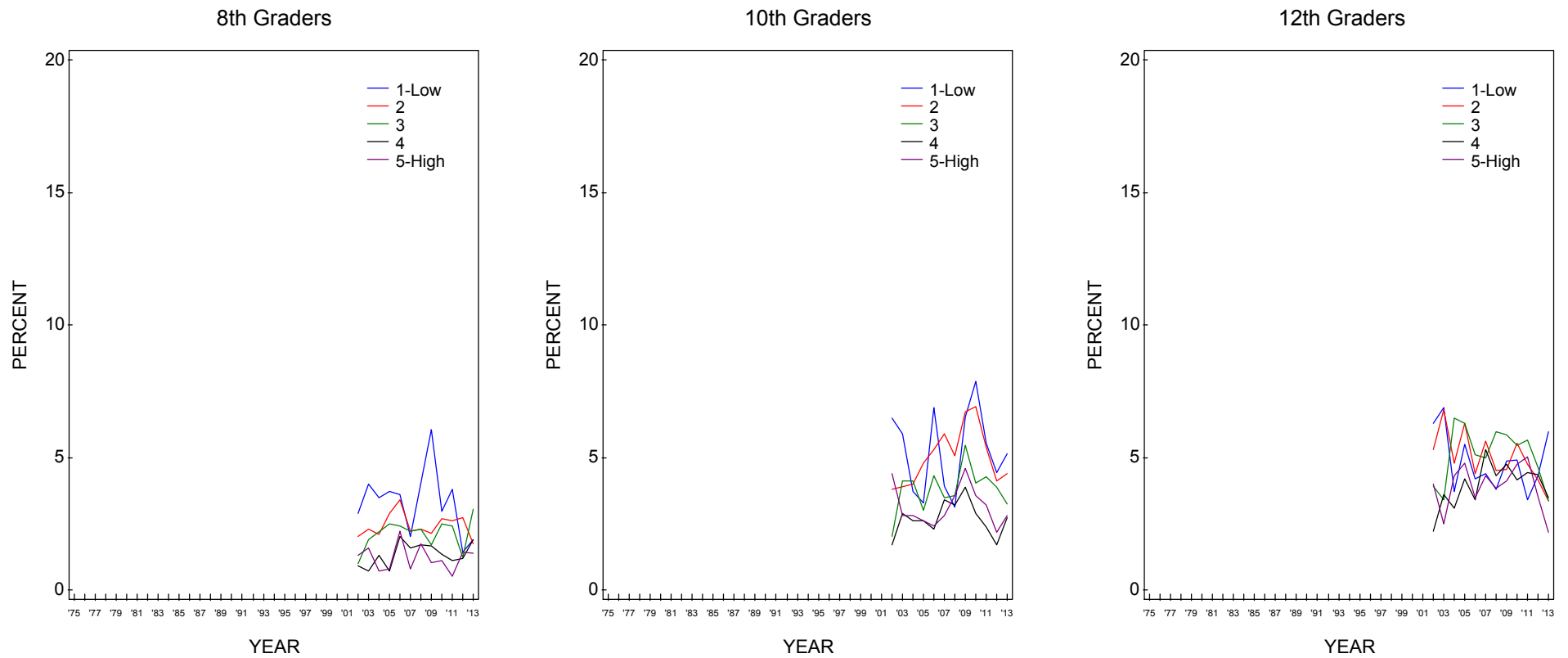
**FIGURE 124**  
**OxyContin: Trends in Annual Prevalence by Population Density**



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

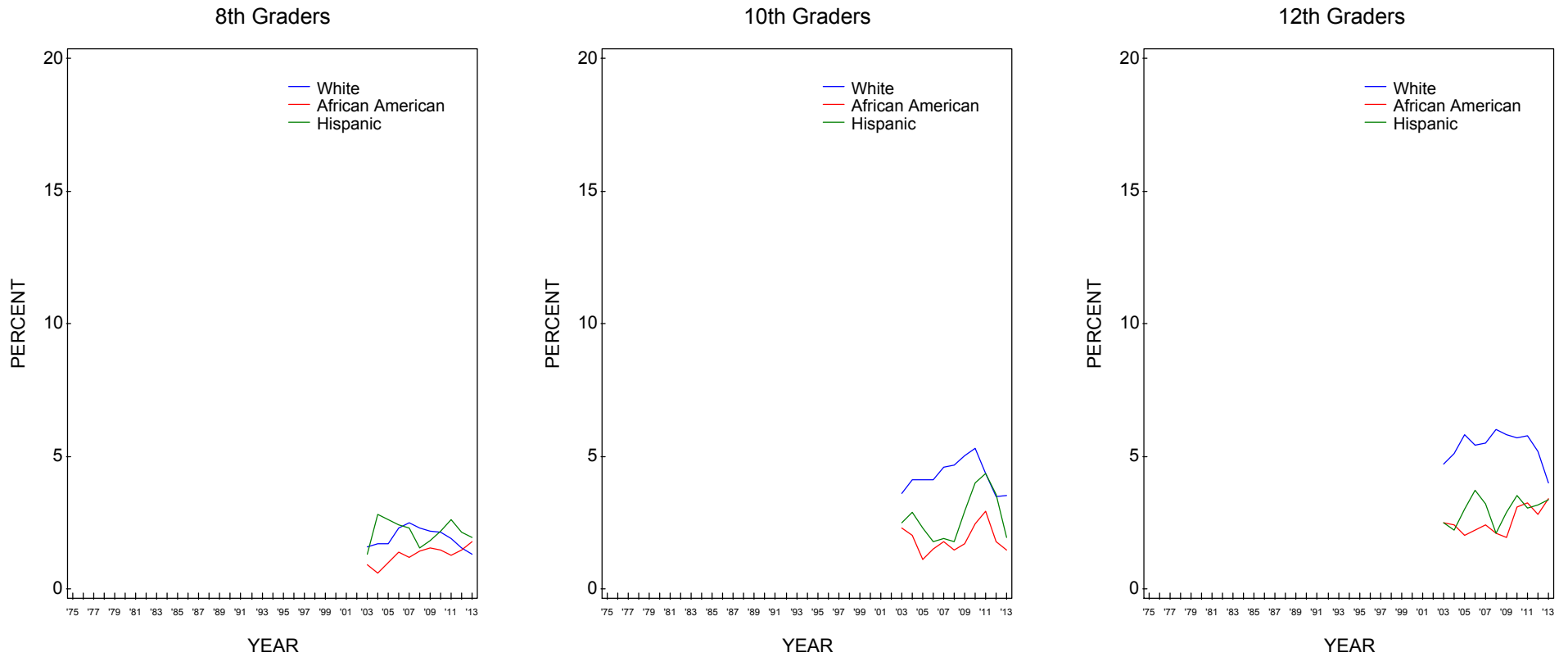


**FIGURE 125**  
**OxyContin: Trends in Annual Prevalence by Average Education Level of Parents**



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

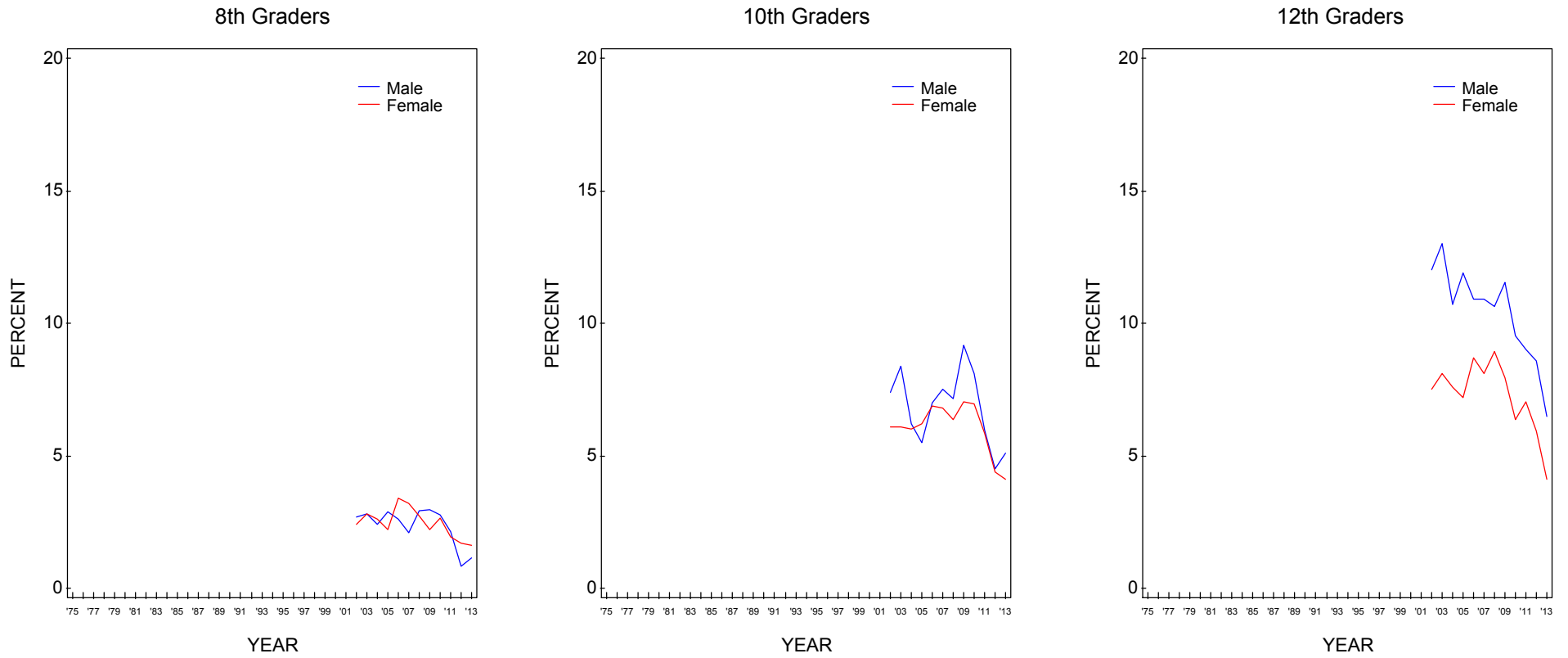
**FIGURE 126**  
**OxyContin: Trends in Annual Prevalence by Race/Ethnicity\***



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

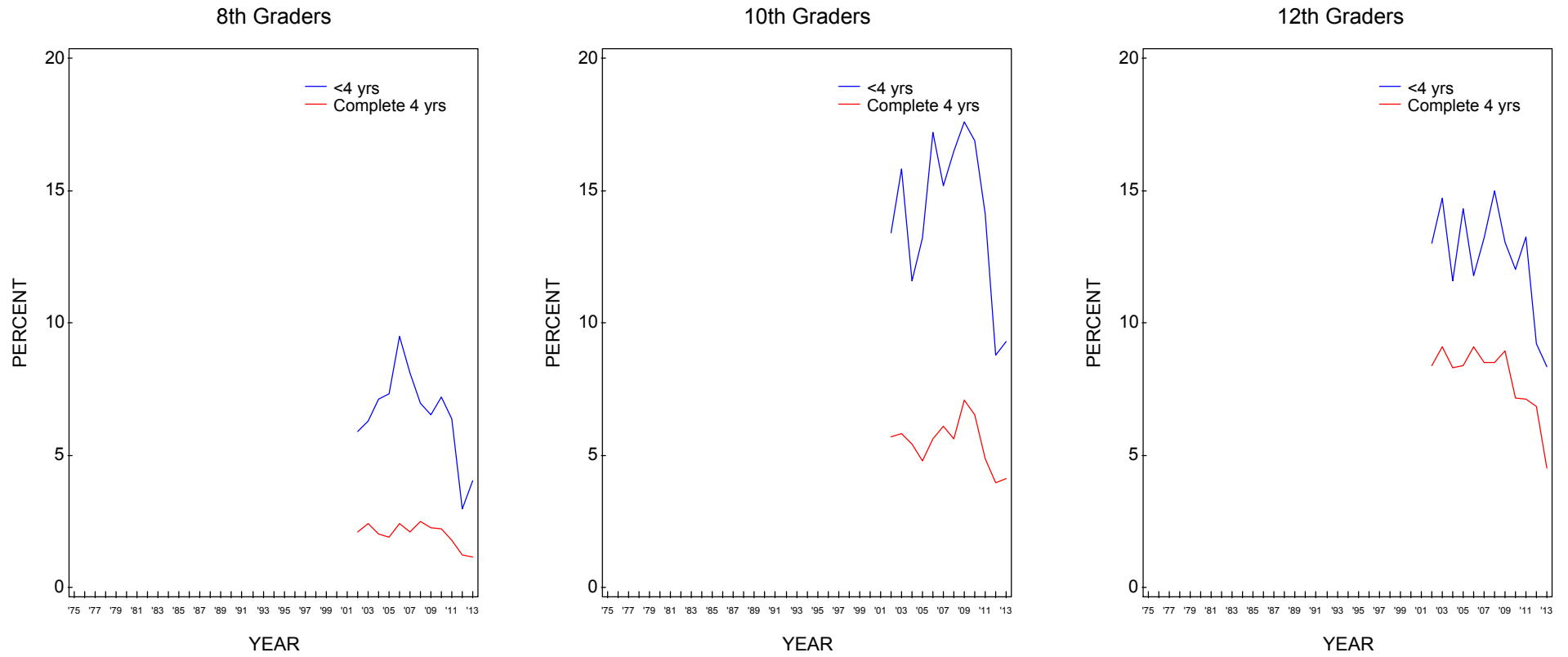
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 127**  
**Vicodin: Trends in Annual Prevalence by Gender**



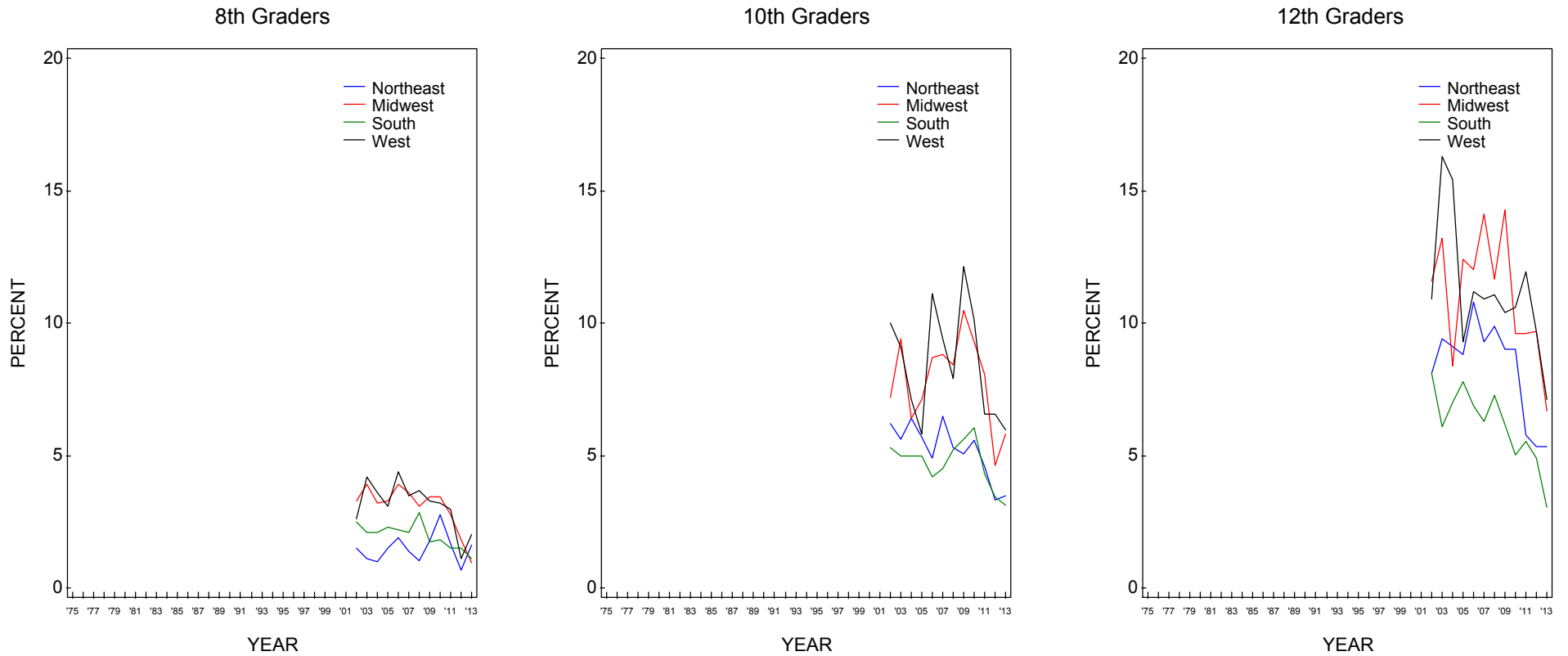
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 128**  
**Vicodin: Trends in Annual Prevalence by College Plans**



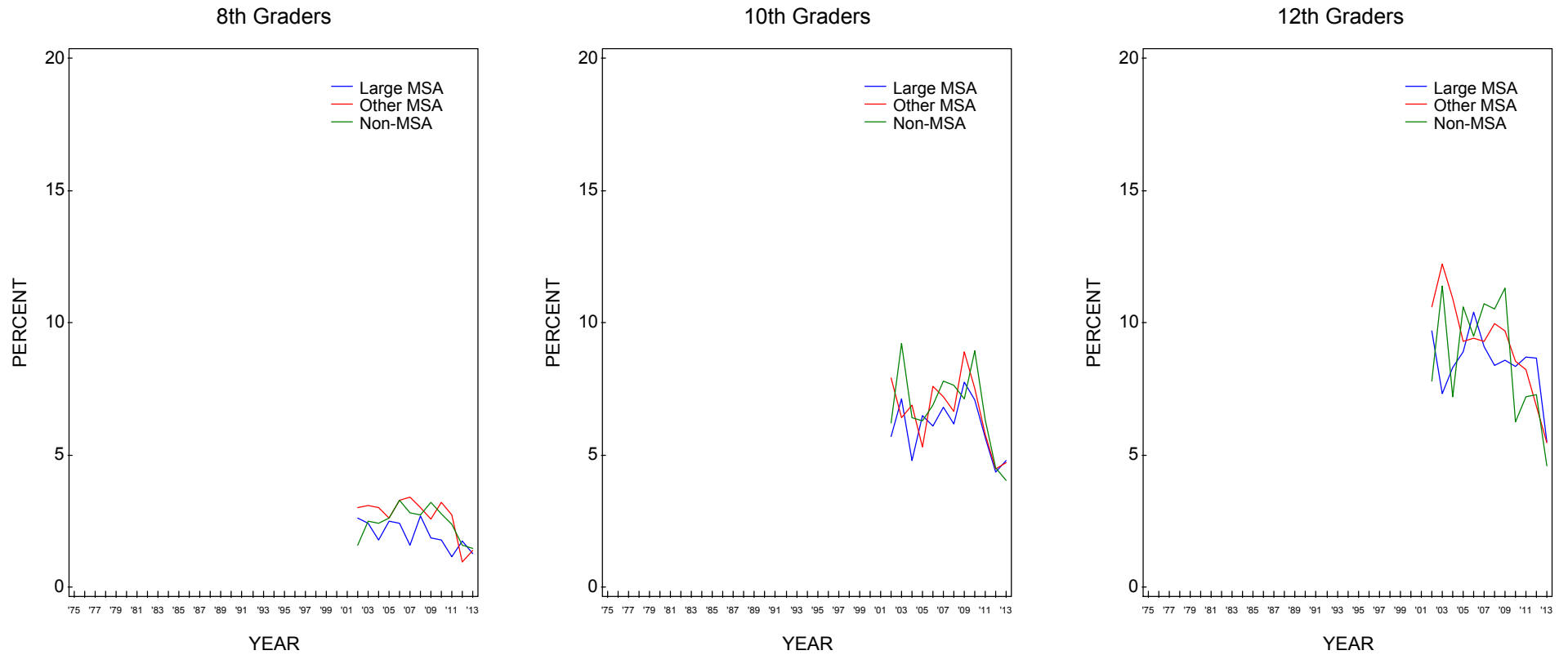
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 129**  
**Vicodin: Trends in Annual Prevalence by Region**



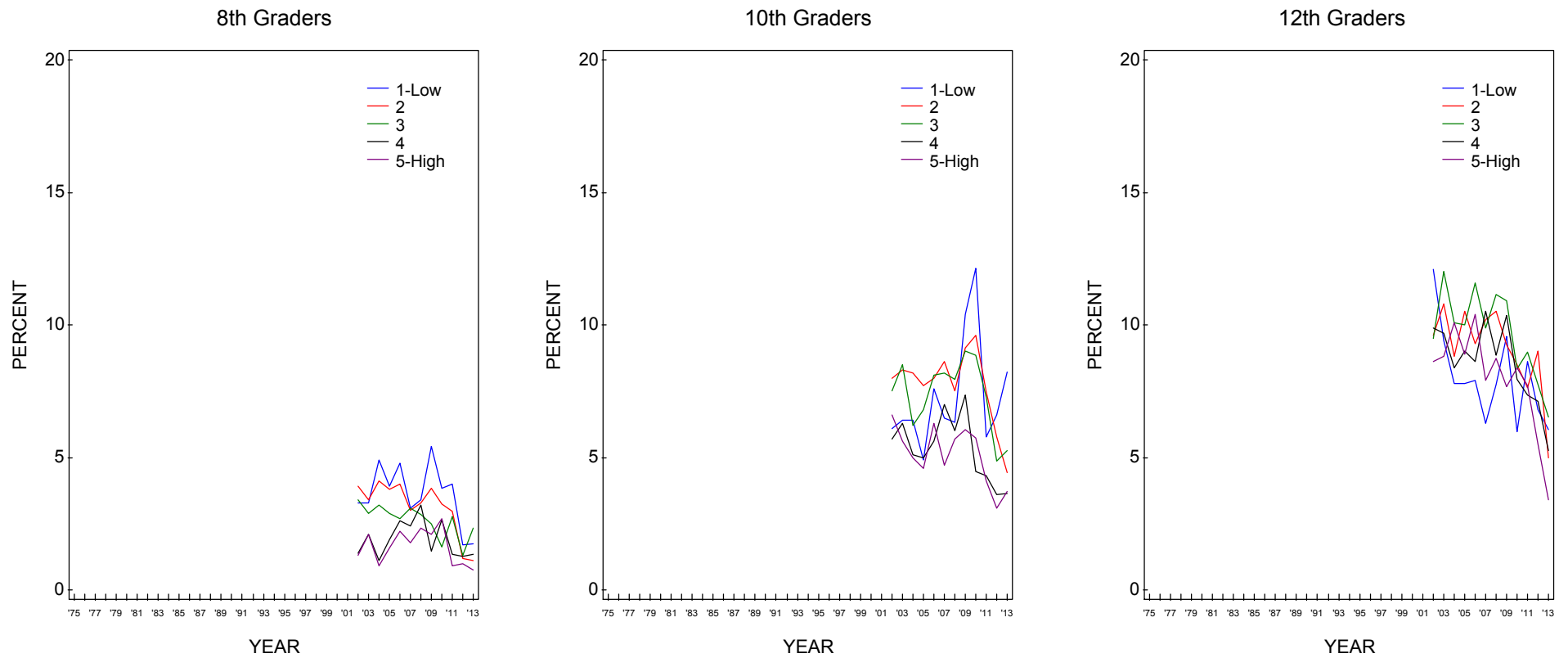
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 130**  
**Vicodin: Trends in Annual Prevalence by Population Density**



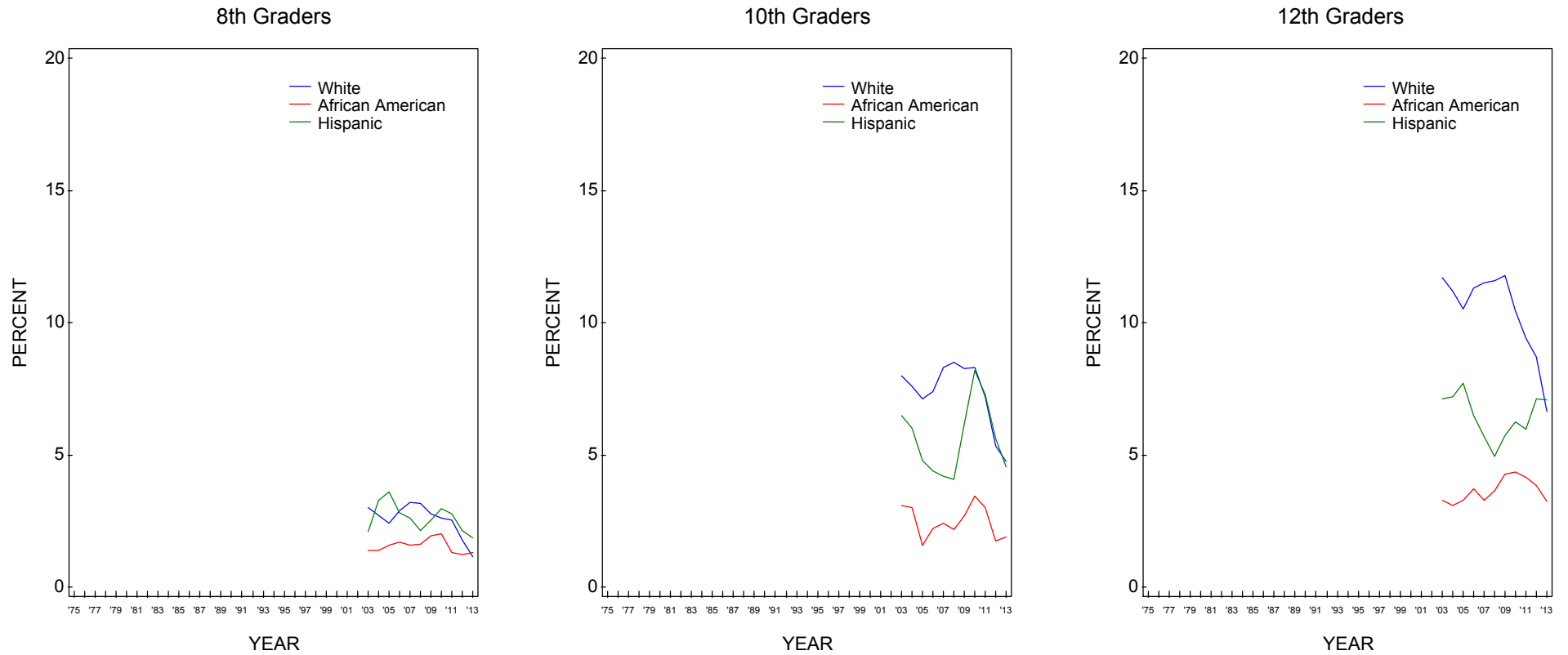
Source. The Monitoring the Future study, the University of Michigan.

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



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

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

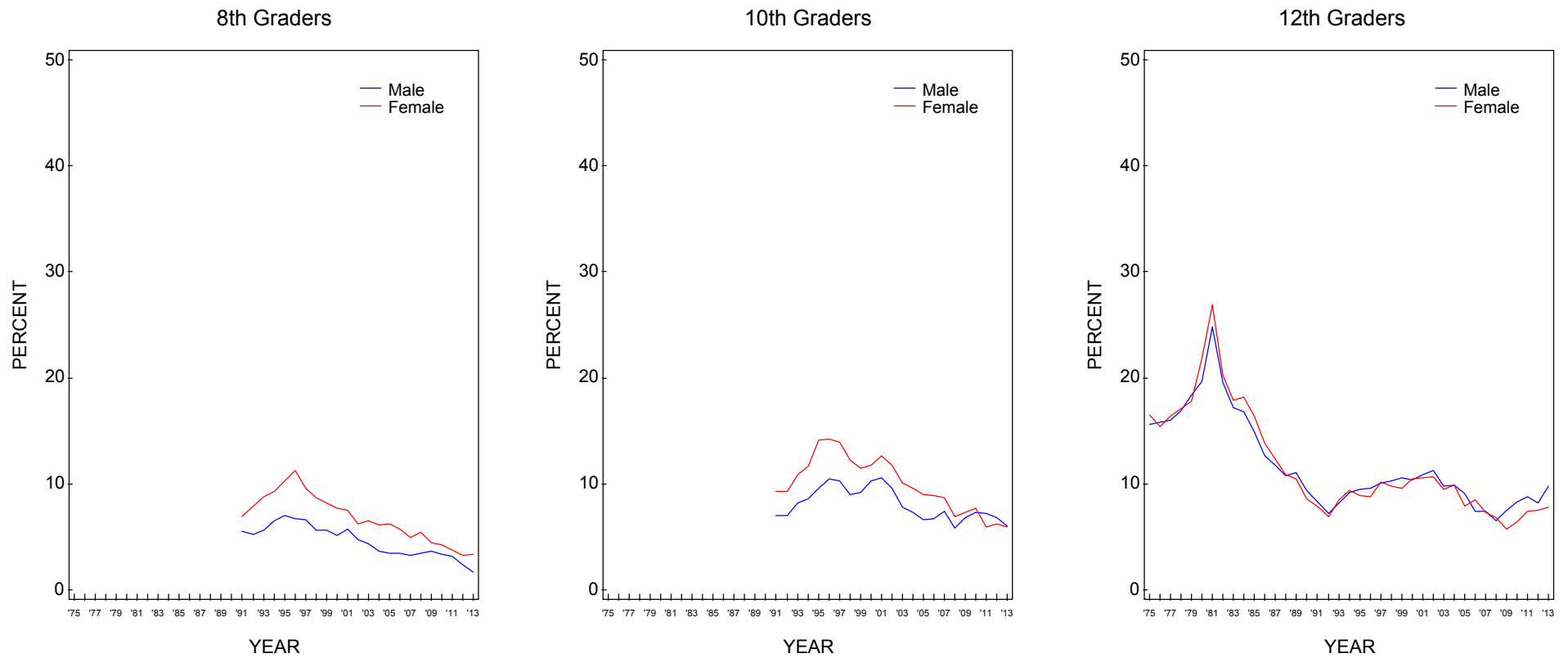


Source. The Monitoring the Future study, the University of Michigan.

\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.



**FIGURE 133**  
**Amphetamines:\* Trends in Annual Prevalence by Gender**

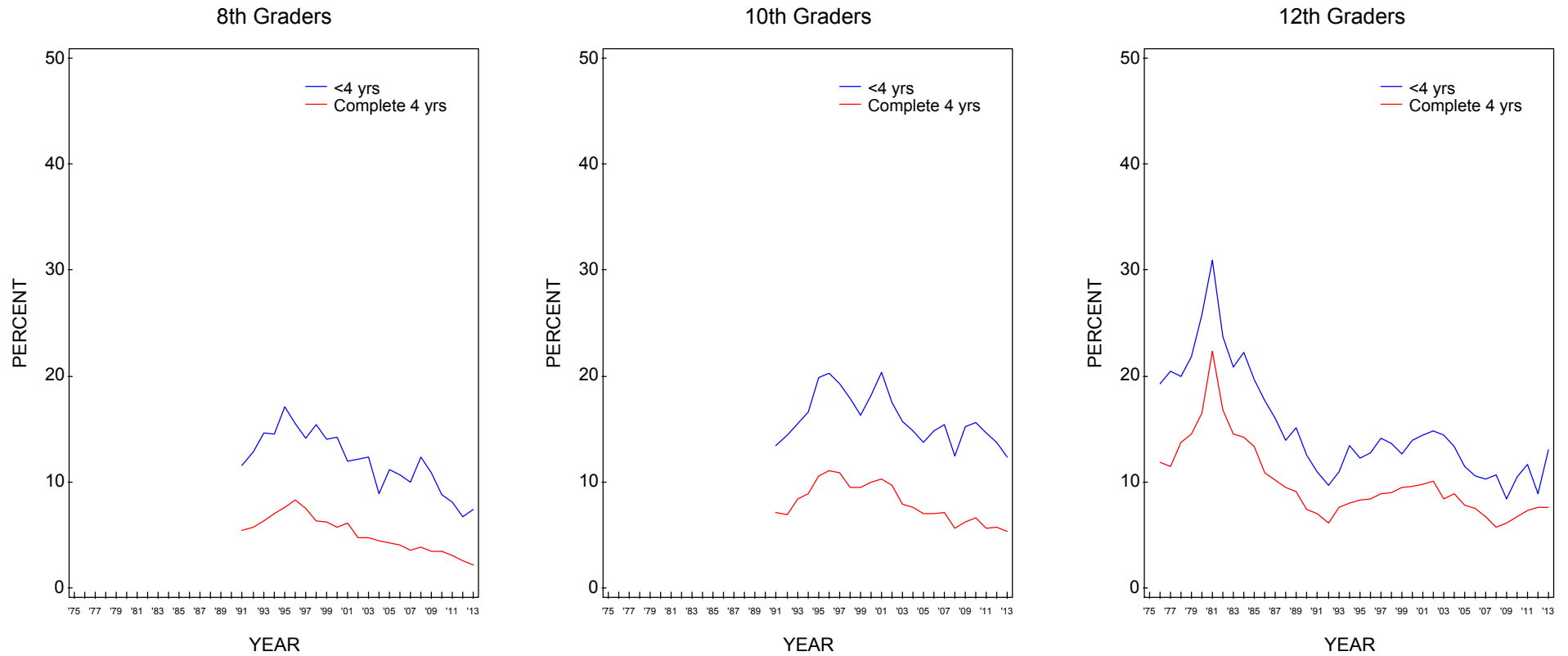


Source. The Monitoring the Future study, the University of Michigan.

\*After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers.

In 2013, for the questions on the use of amphetamines, the text was changed on two of the questionnaire forms for 8th and 10th graders and four of the questionnaire forms for 12th graders. Data presented here for 2013 include only the unchanged forms.

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

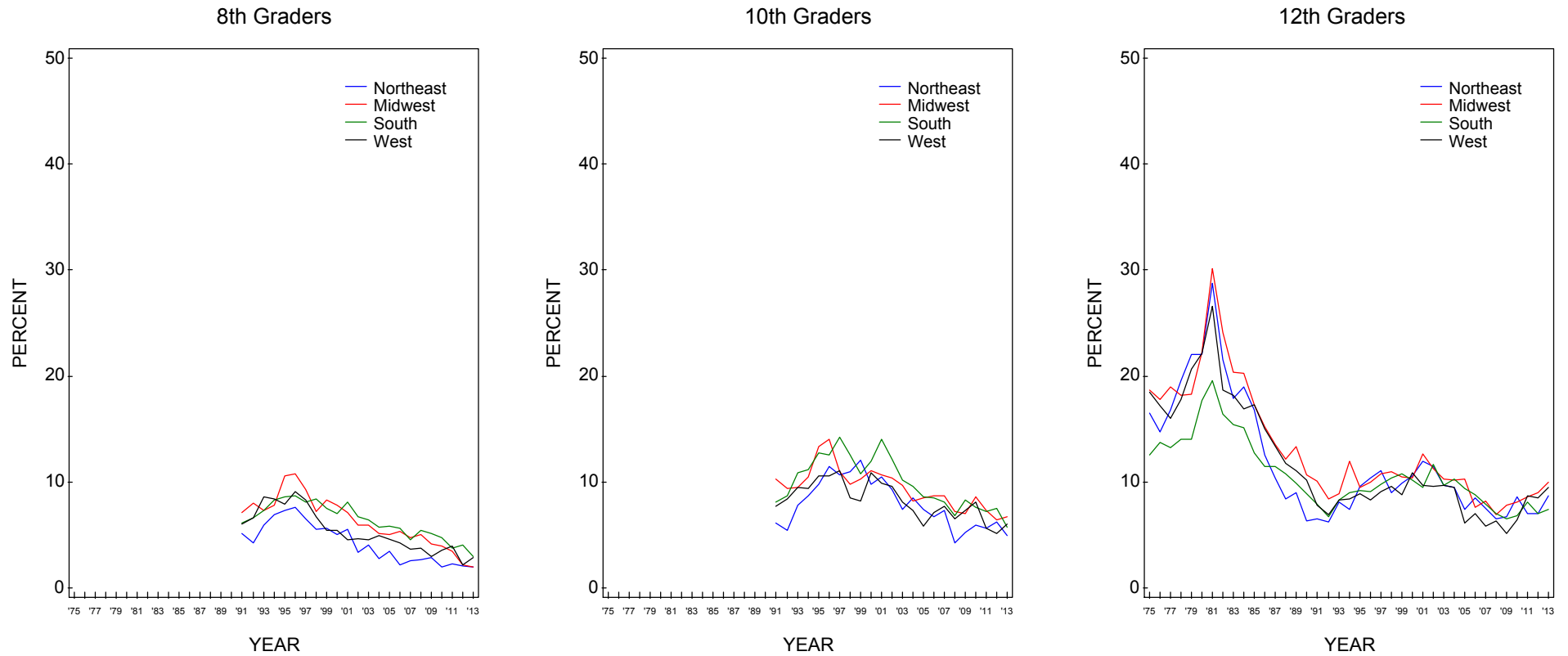


Source. The Monitoring the Future study, the University of Michigan.

\*After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers.

In 2013, for the questions on the use of amphetamines, the text was changed on two of the questionnaire forms for 8th and 10th graders and four of the questionnaire forms for 12th graders. Data presented here for 2013 include only the unchanged forms.

**FIGURE 135**  
**Amphetamines:\* Trends in Annual Prevalence by Region**

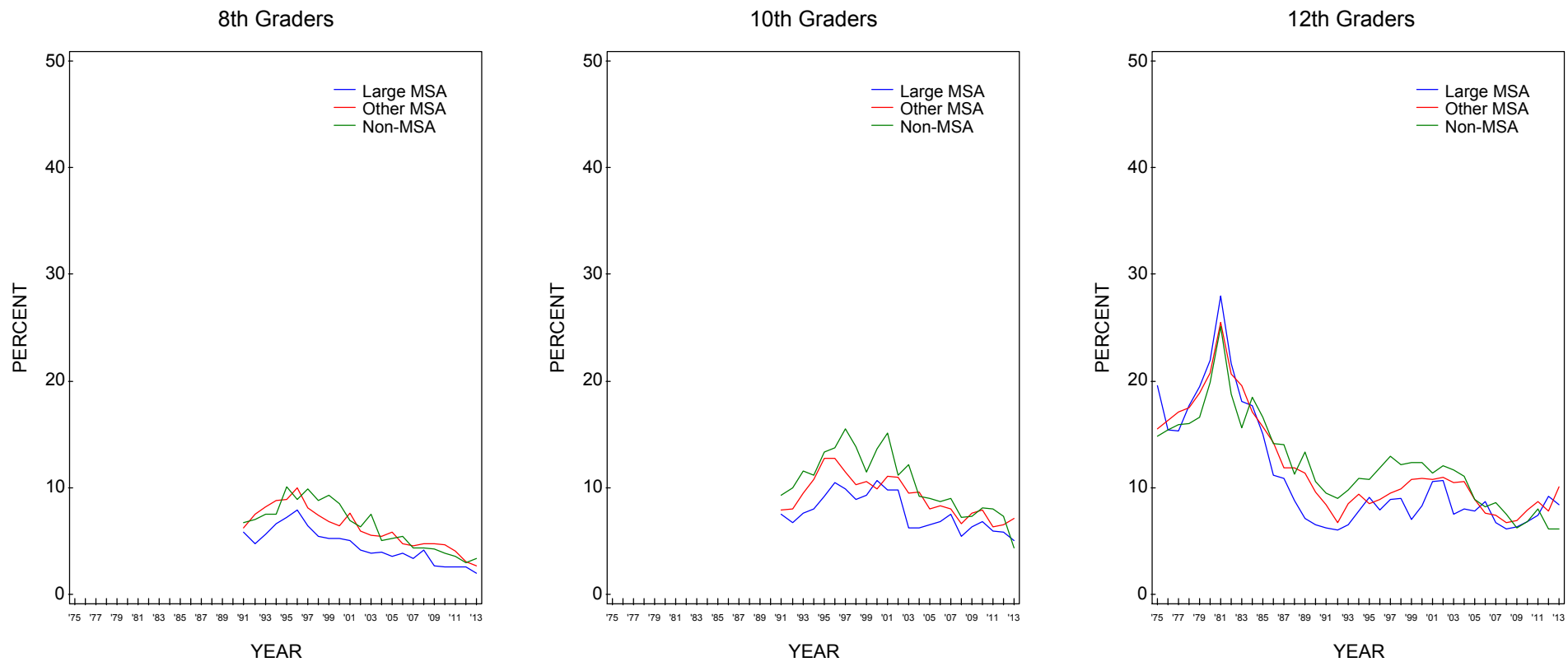


Source. The Monitoring the Future study, the University of Michigan.

\*After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers.

In 2013, for the questions on the use of amphetamines, the text was changed on two of the questionnaire forms for 8th and 10th graders and four of the questionnaire forms for 12th graders. Data presented here for 2013 include only the unchanged forms.

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

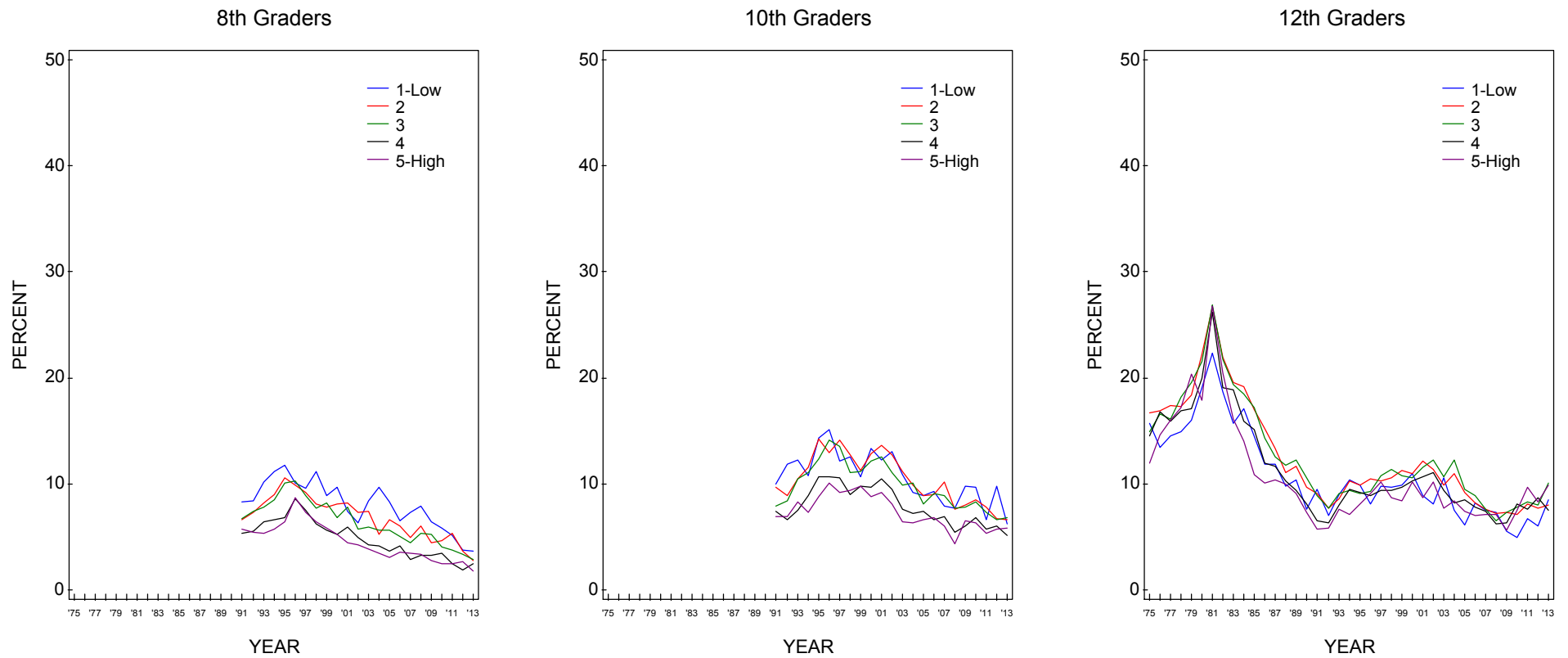


Source. The Monitoring the Future study, the University of Michigan.

\*After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers.

In 2013, for the questions on the use of amphetamines, the text was changed on two of the questionnaire forms for 8th and 10th graders and four of the questionnaire forms for 12th graders. Data presented here for 2013 include only the unchanged forms.

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

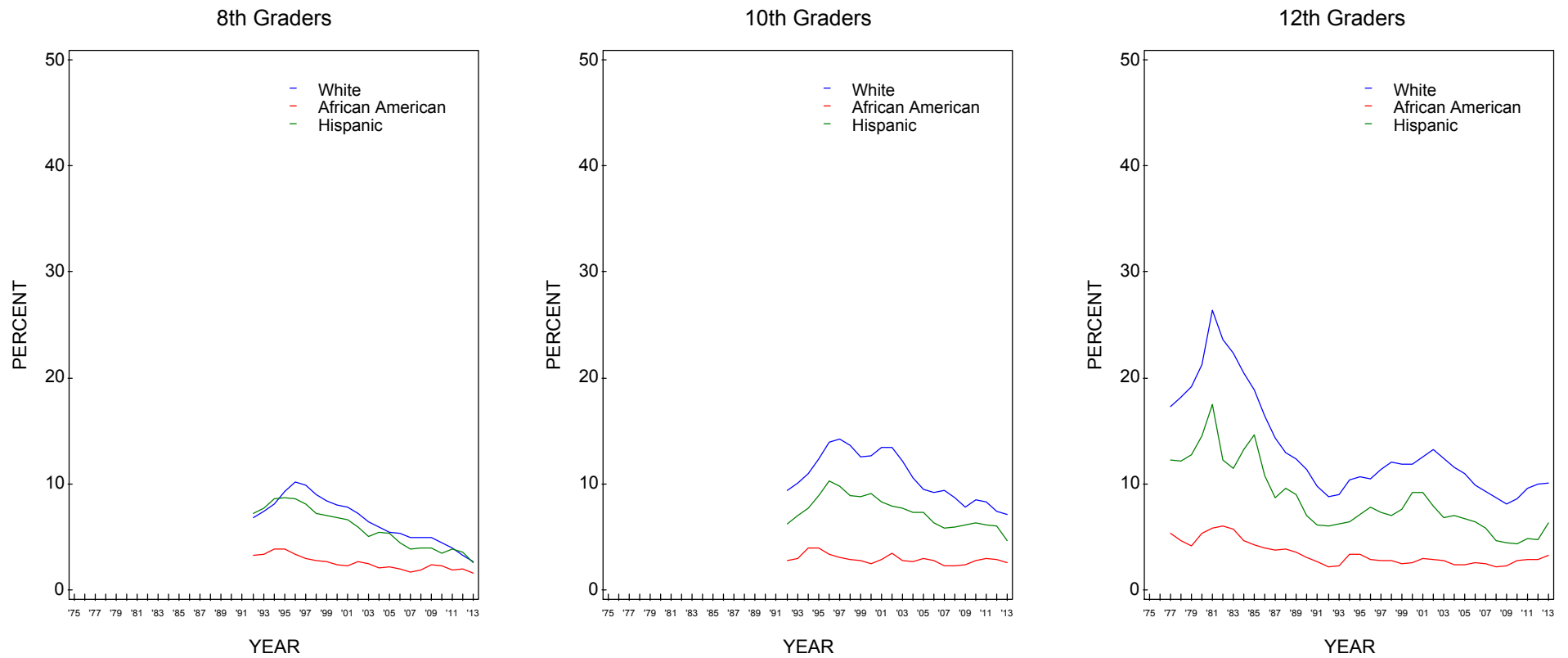


Source. The Monitoring the Future study, the University of Michigan.

\*After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers.

In 2013, for the questions on the use of amphetamines, the text was changed on two of the questionnaire forms for 8th and 10th graders and four of the questionnaire forms for 12th graders. Data presented here for 2013 include only the unchanged forms.

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



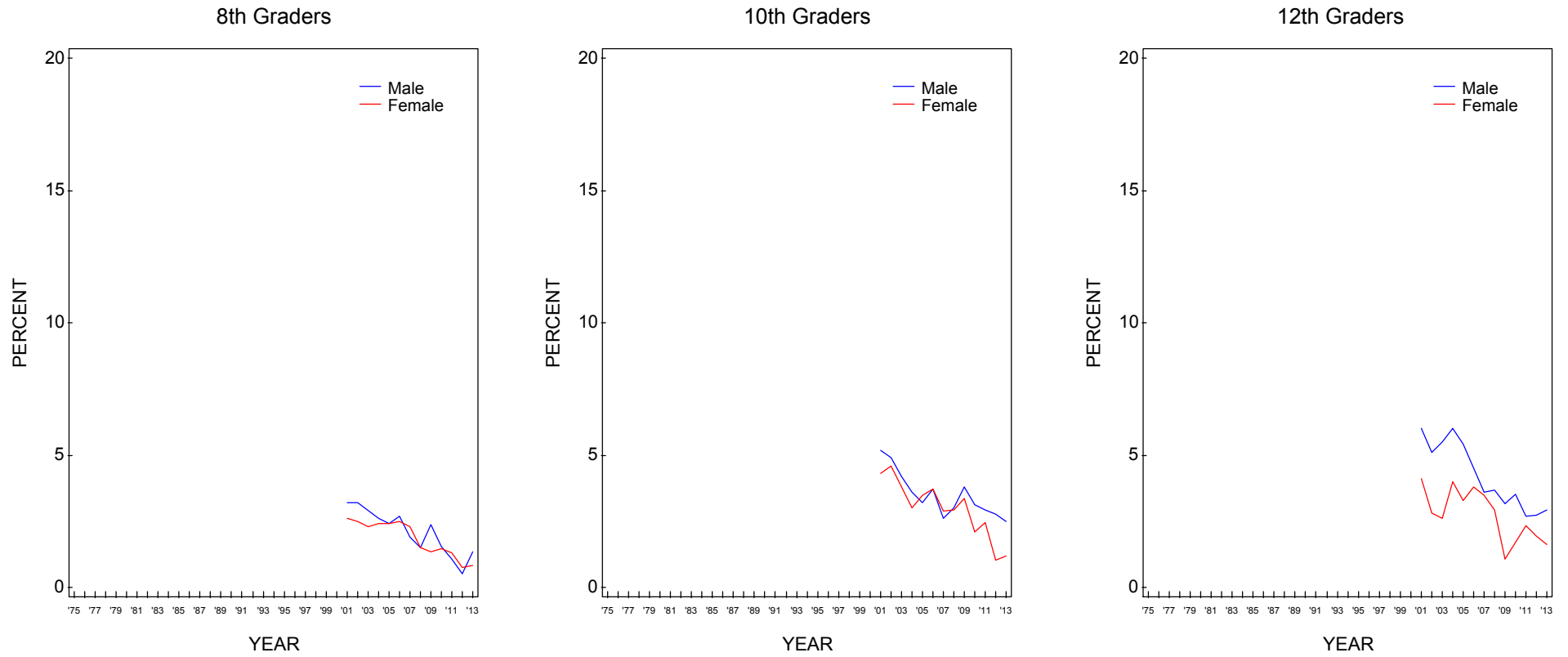
Source. The Monitoring the Future study, the University of Michigan.

\*After 1982, the question about amphetamine use was revised to further clarify that nonprescription stimulants should not be included in the answers.

In 2013, for the questions on the use of amphetamines, the text was changed on two of the questionnaire forms for 8th and 10th graders and four of the questionnaire forms for 12th graders. Data presented here for 2013 include only the unchanged forms.

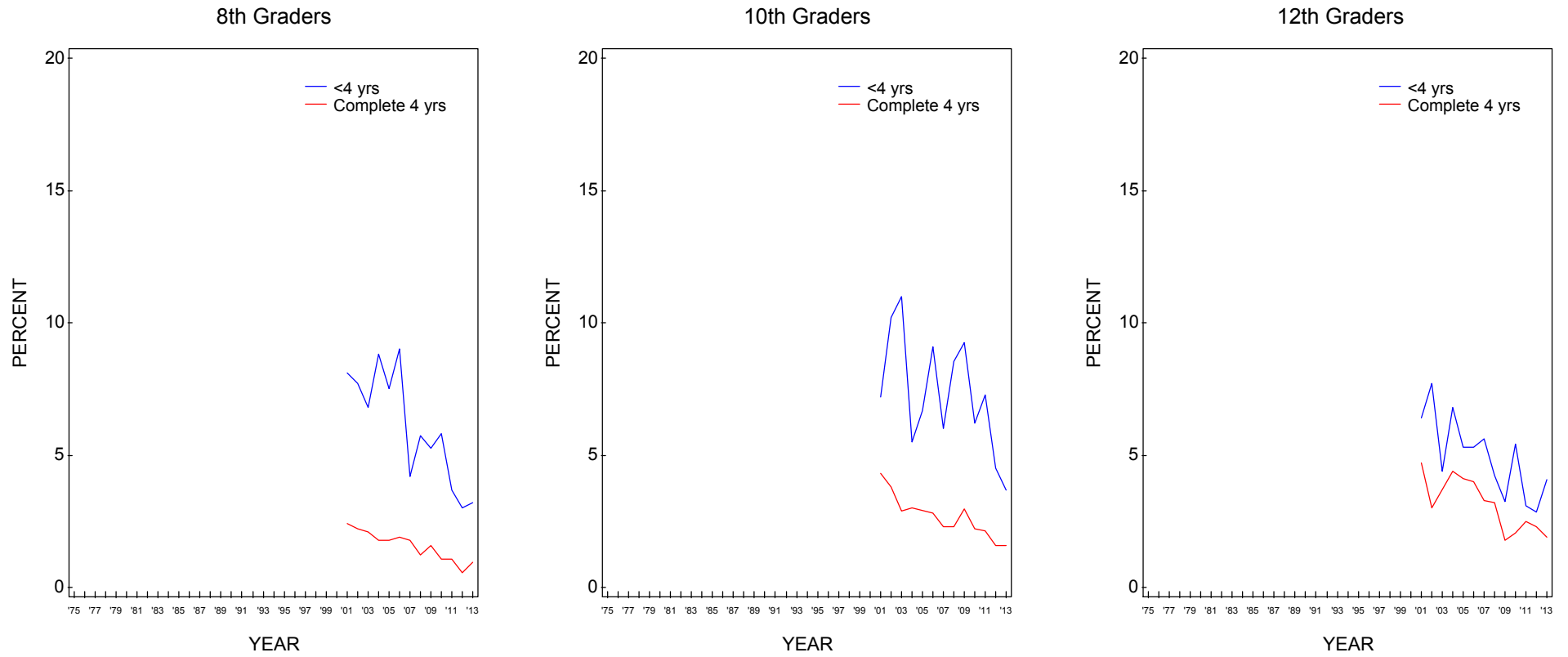
\*\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 139**  
**Ritalin: Trends in Annual Prevalence by Gender**



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

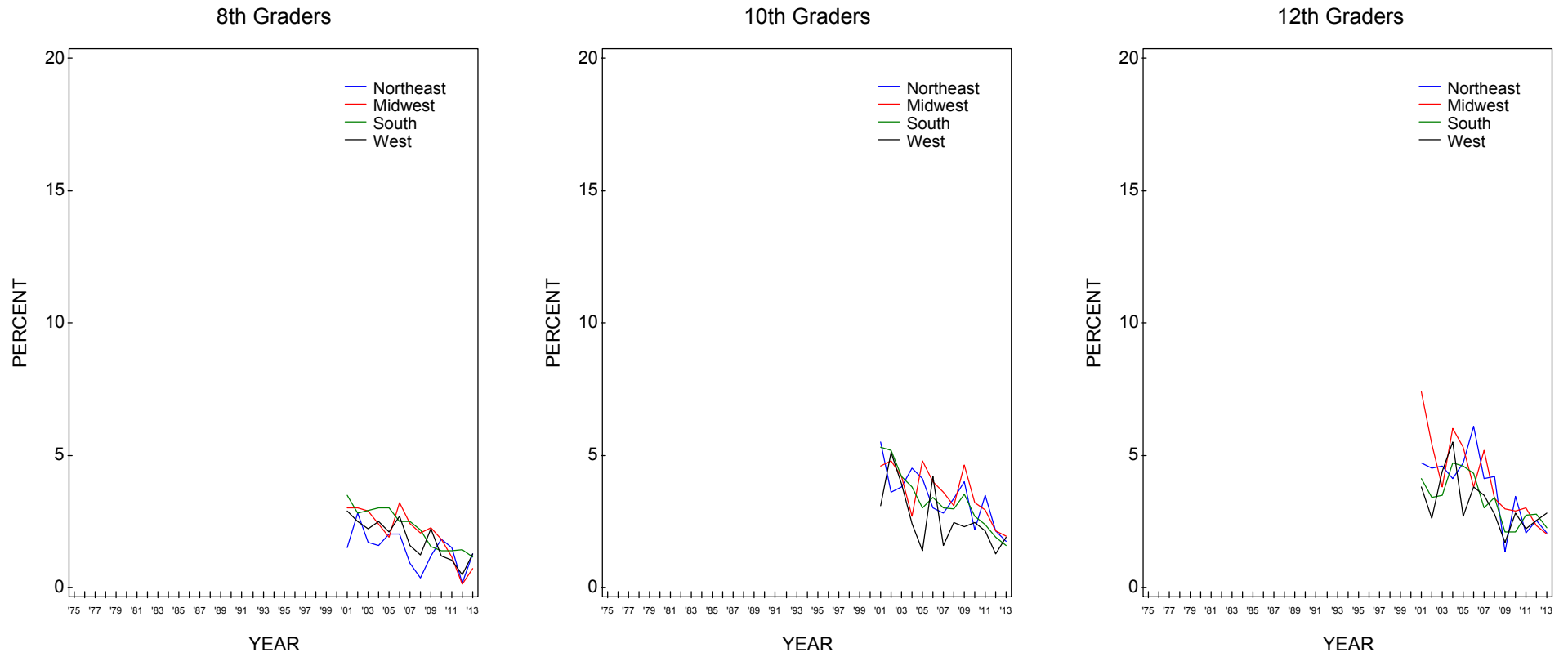
**FIGURE 140**  
**Ritalin: Trends in Annual Prevalence by College Plans**



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

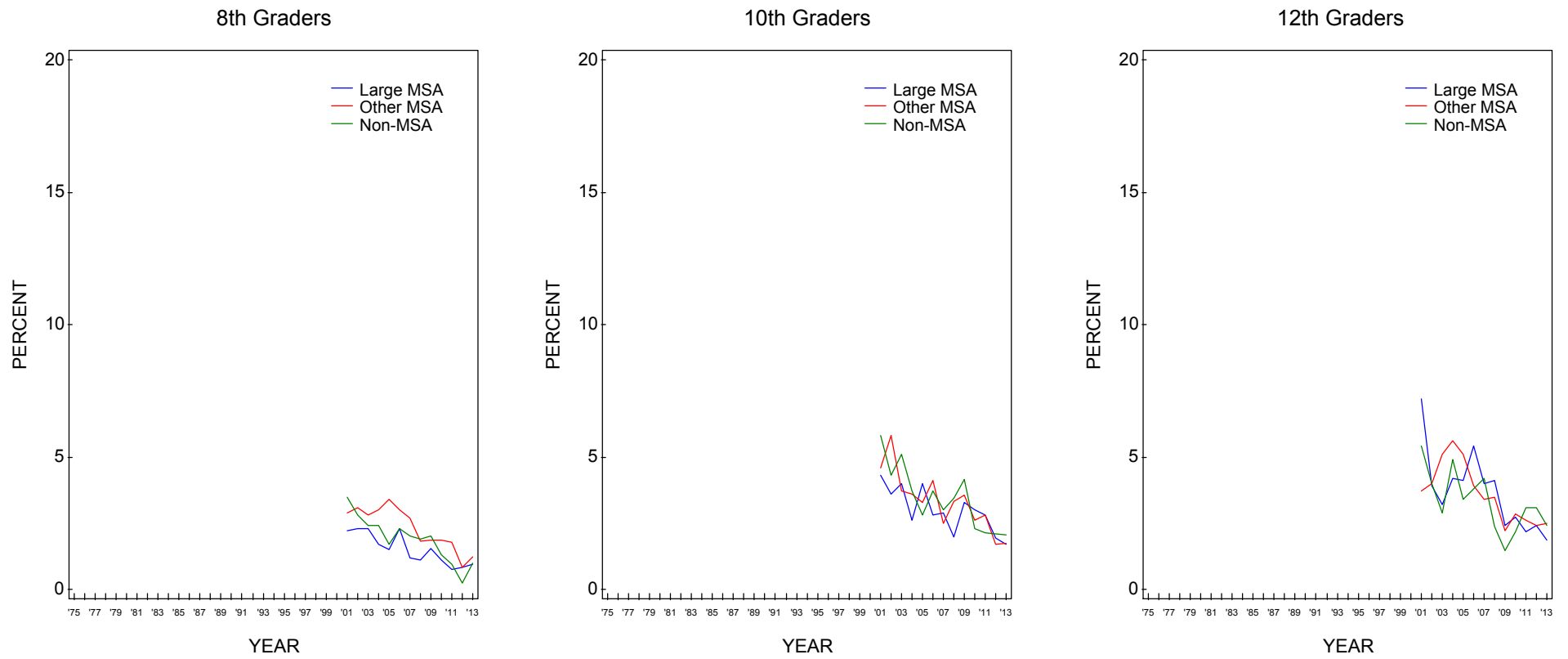


**FIGURE 141**  
**Ritalin: Trends in Annual Prevalence by Region**



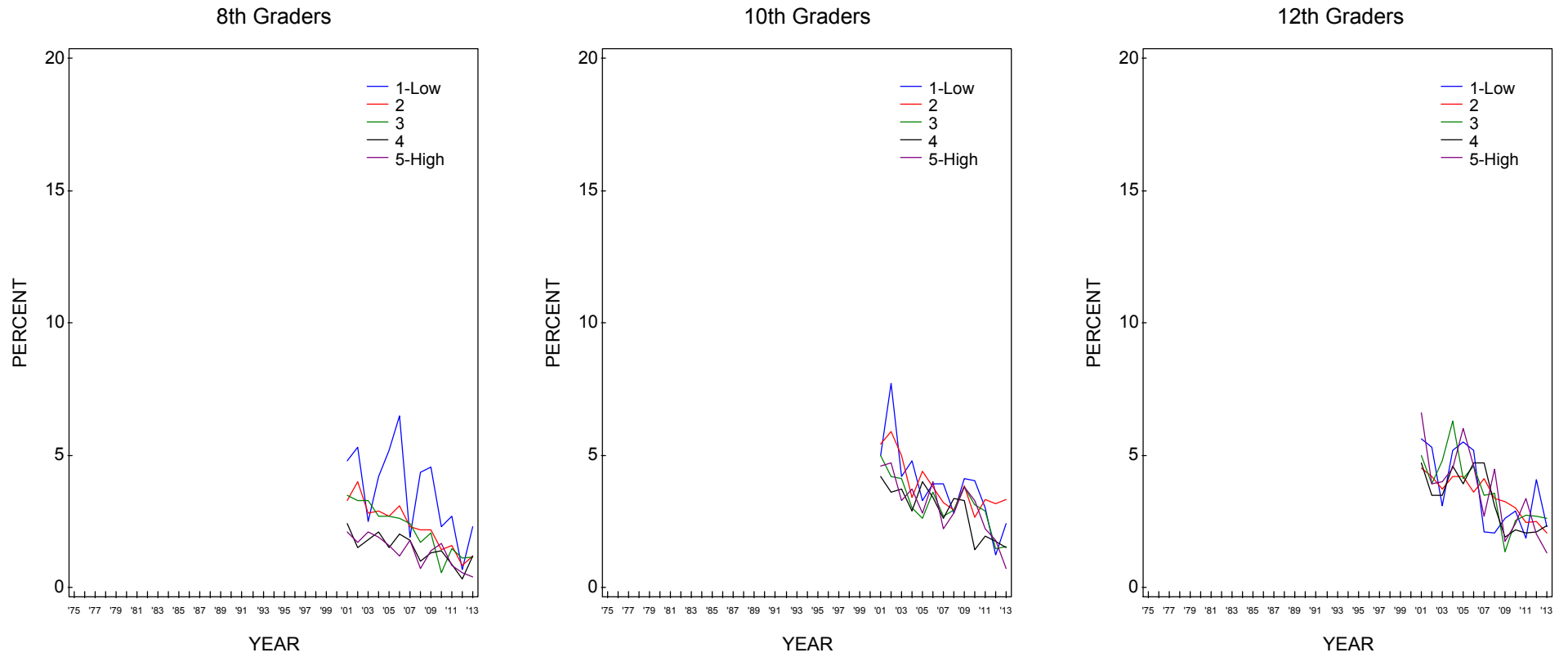
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 142**  
**Ritalin: Trends in Annual Prevalence by Population Density**



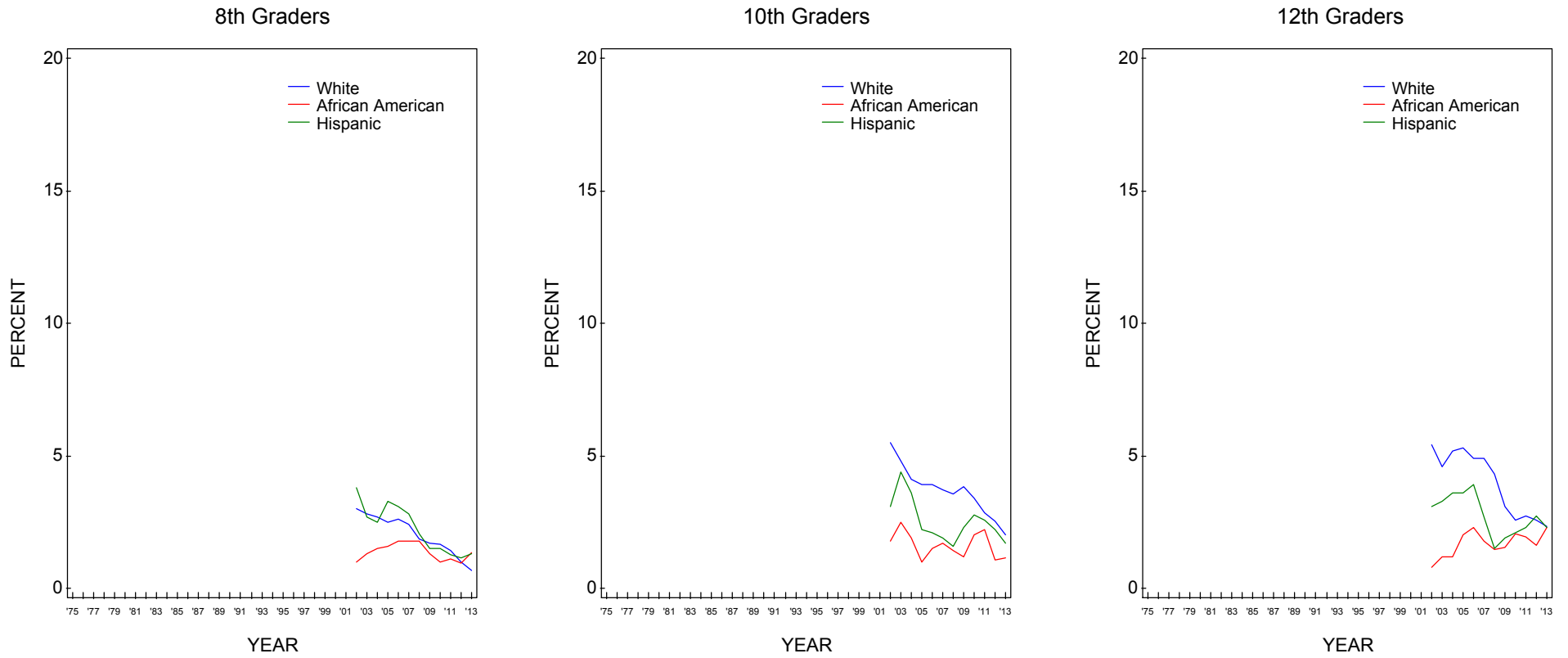
Source. The Monitoring the Future study, the University of Michigan.

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



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

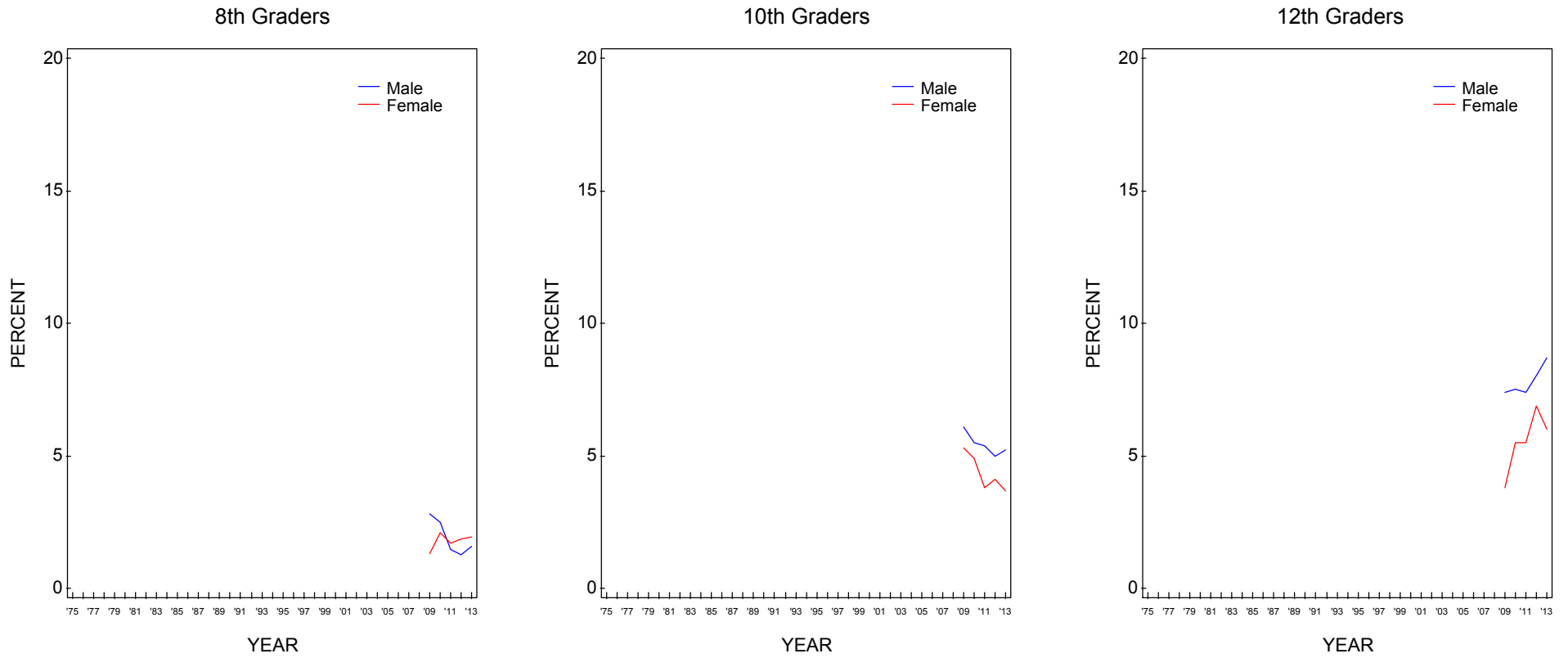
**FIGURE 144**  
**Ritalin: Trends in Annual Prevalence by Race/Ethnicity\***



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

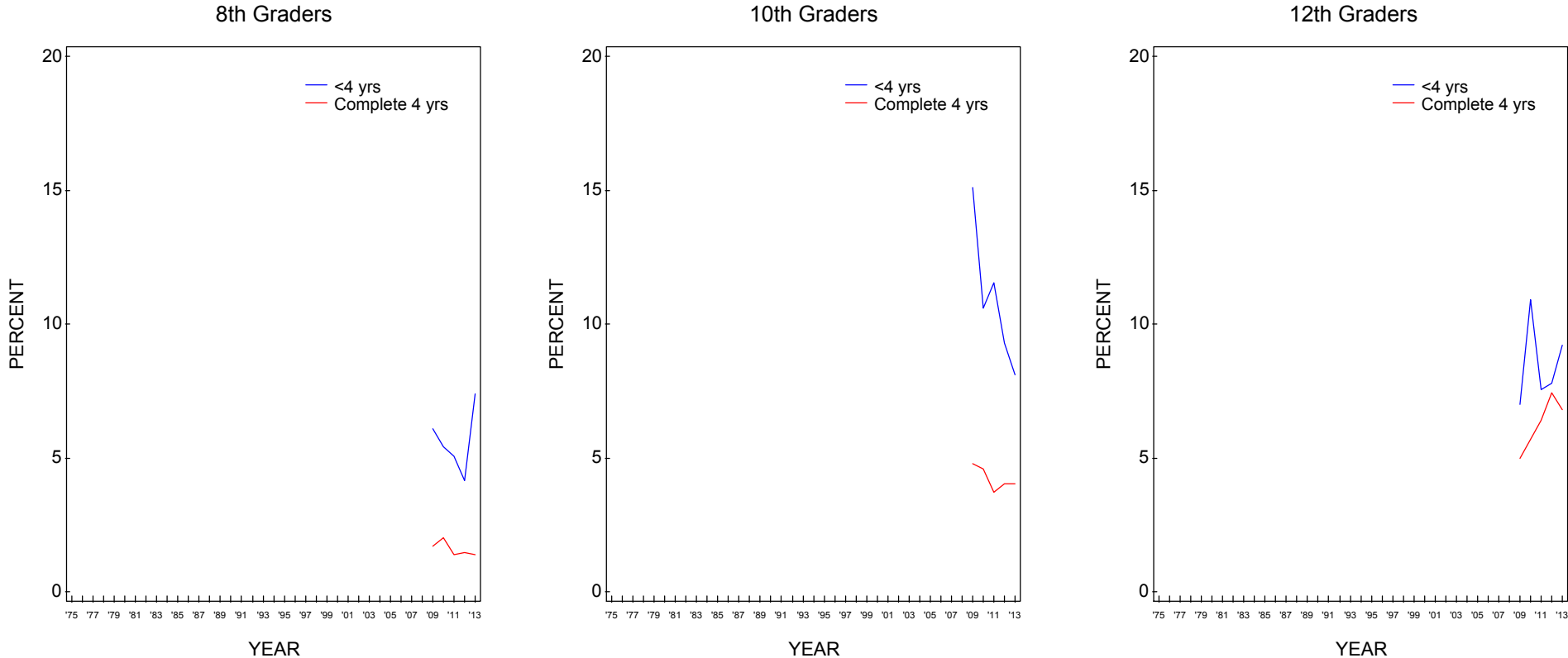
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 145**  
**Adderall: Trends in Annual Prevalence by Gender**



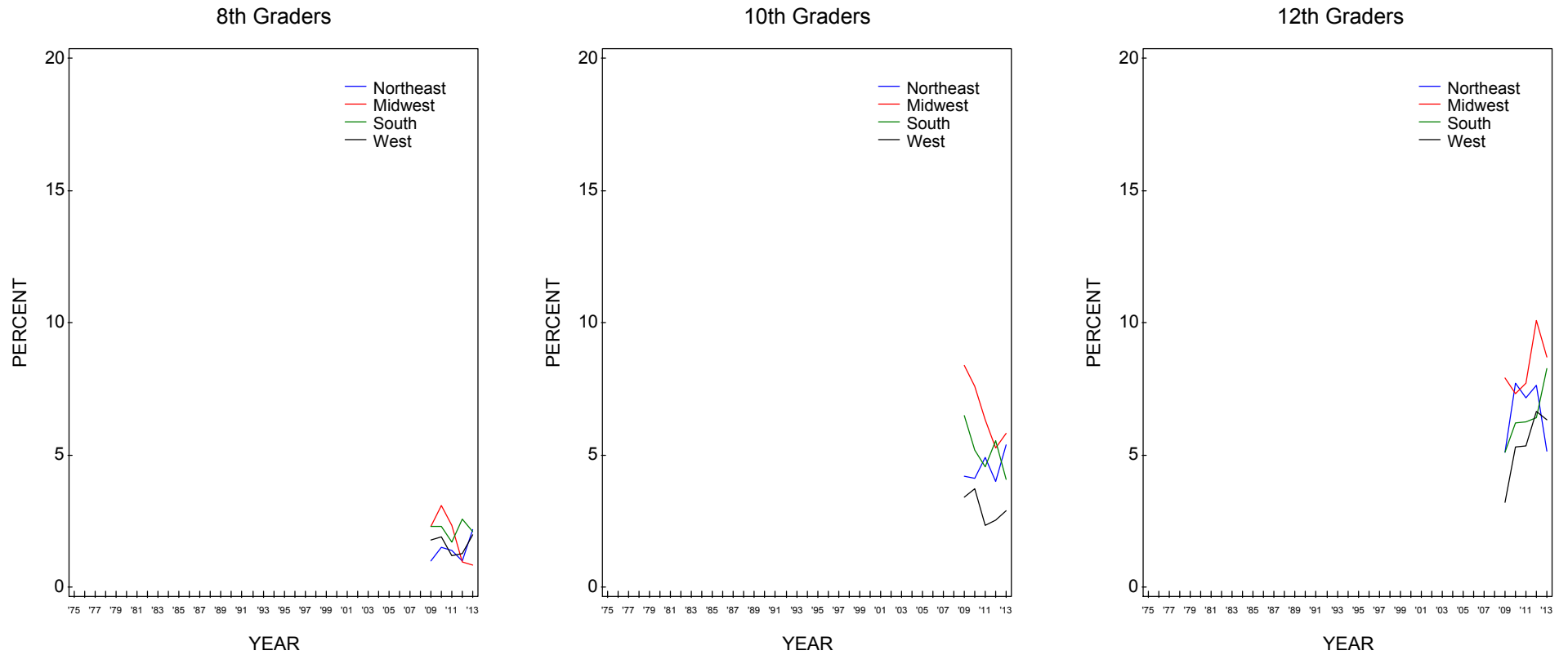
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 146**  
**Adderall: Trends in Annual Prevalence by College Plans**



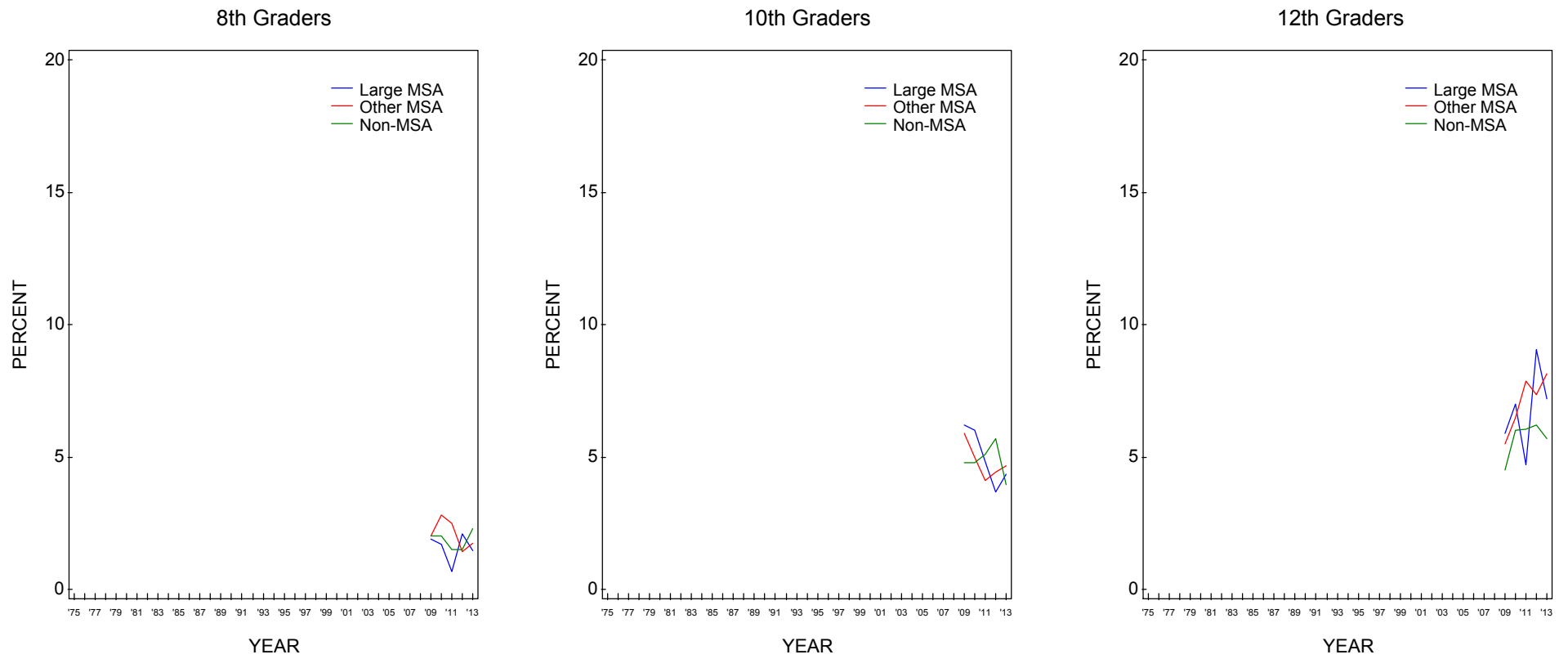
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 147**  
**Adderall: Trends in Annual Prevalence by Region**



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

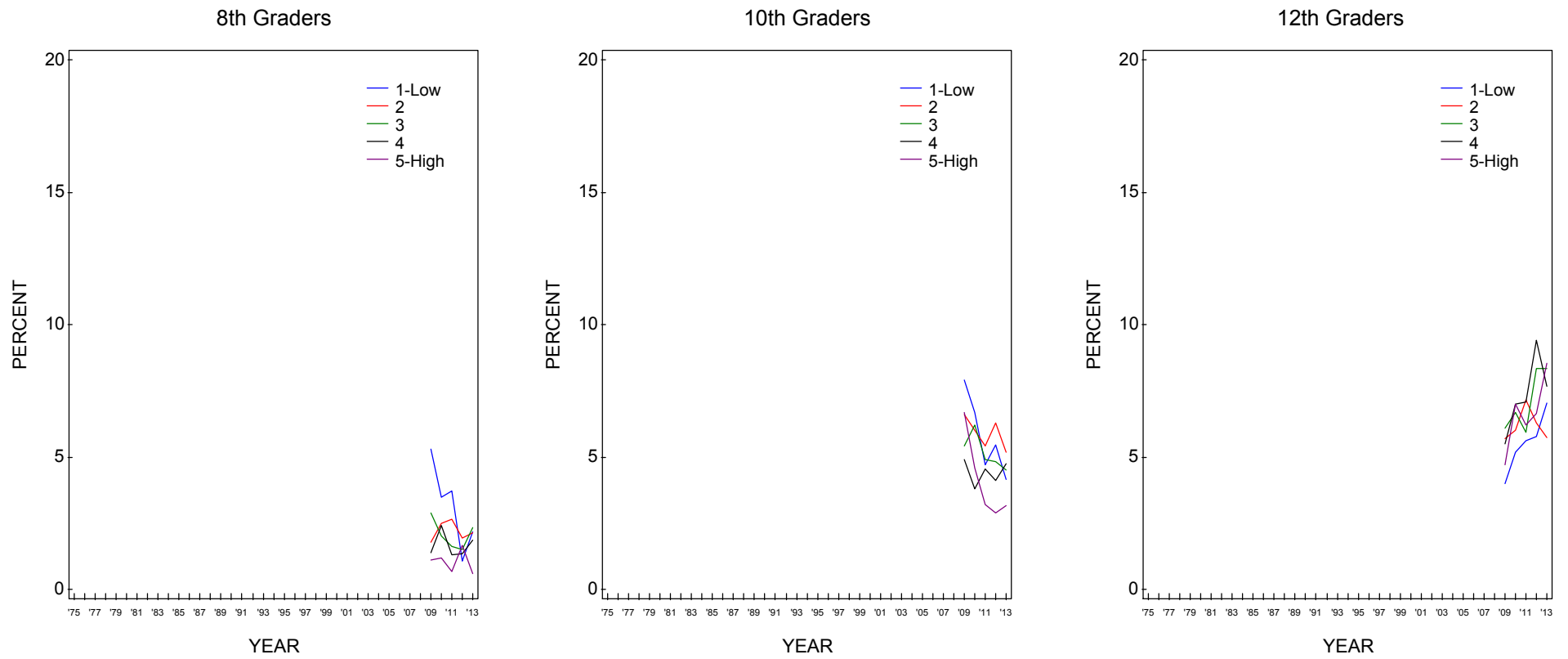
**FIGURE 148**  
**Adderall: Trends in Annual Prevalence by Population Density**



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

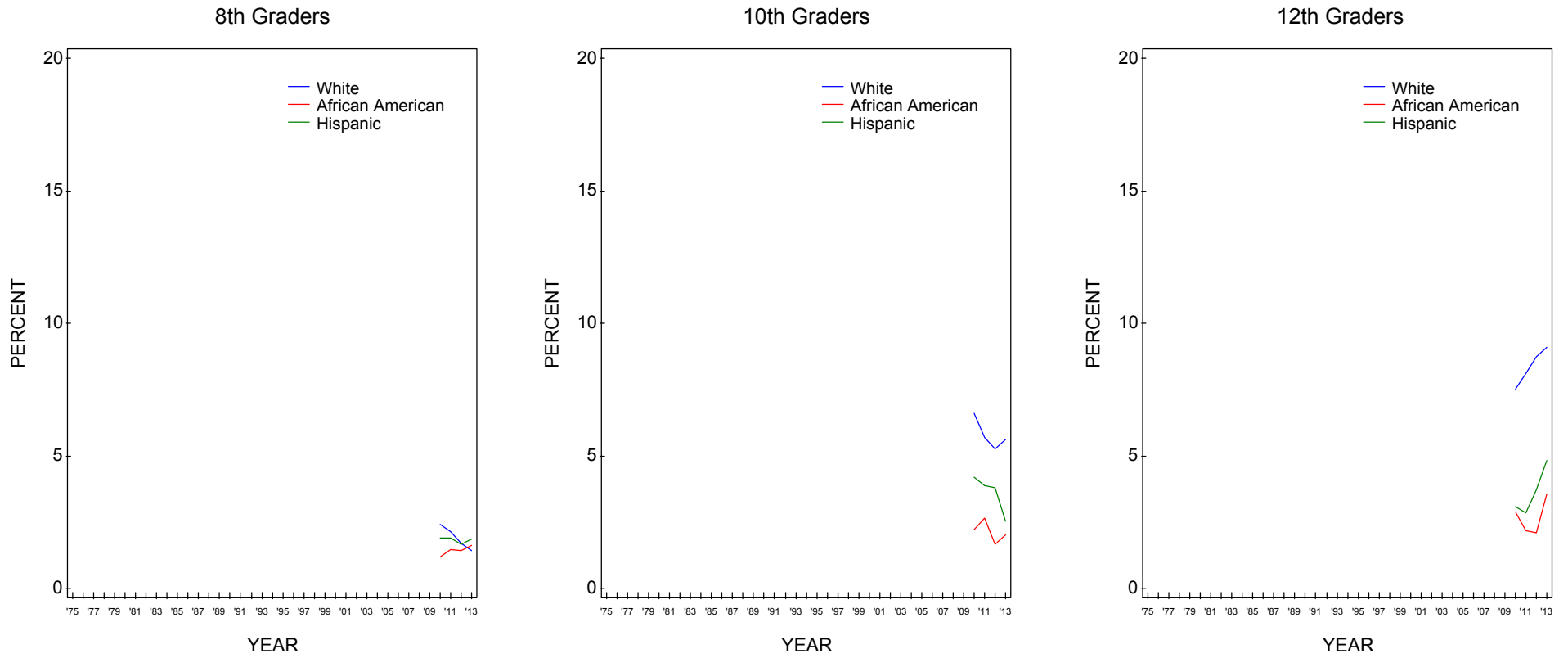


**FIGURE 149**  
**Adderall: Trends in Annual Prevalence by Average Education Level of Parents**



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

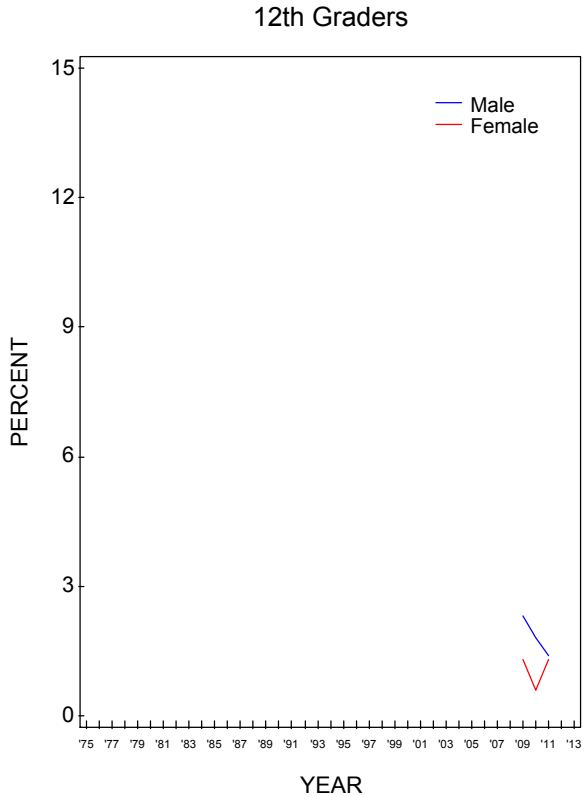
**FIGURE 150**  
**Adderall: Trends in Annual Prevalence by Race/Ethnicity\***



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

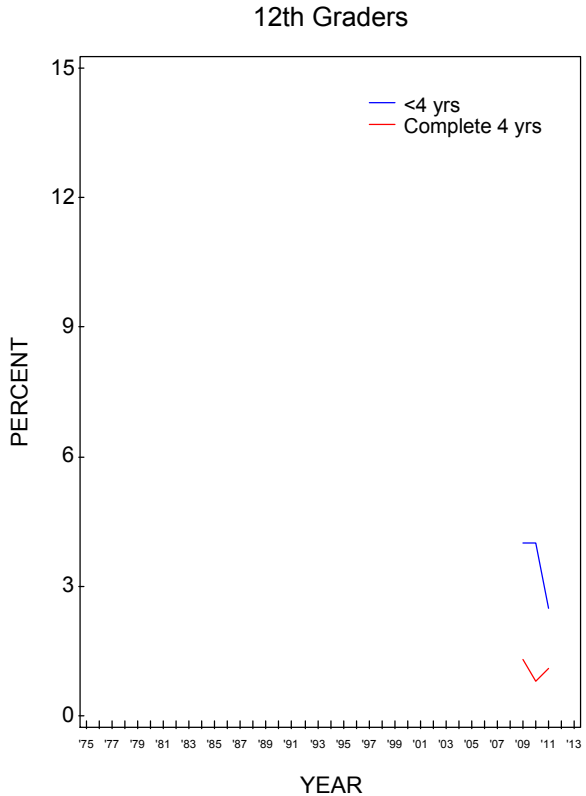
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 151**  
**Provigil:\* Trends in Annual Prevalence by Gender**



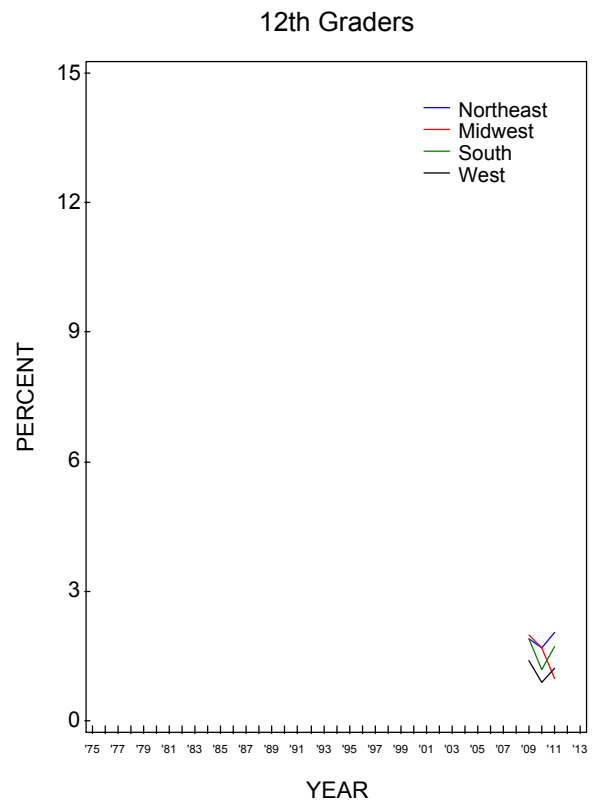
Source. The Monitoring the Future study, the University of Michigan.  
\*Question discontinued in 2012.

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



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

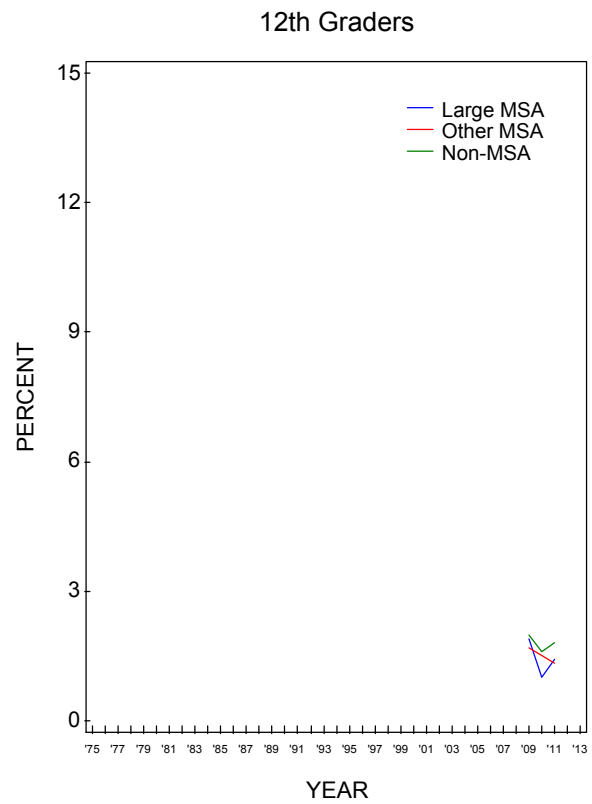
**FIGURE 153**  
**Provigil:\* Trends in Annual Prevalence by Region**



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

\*Question discontinued in 2012.

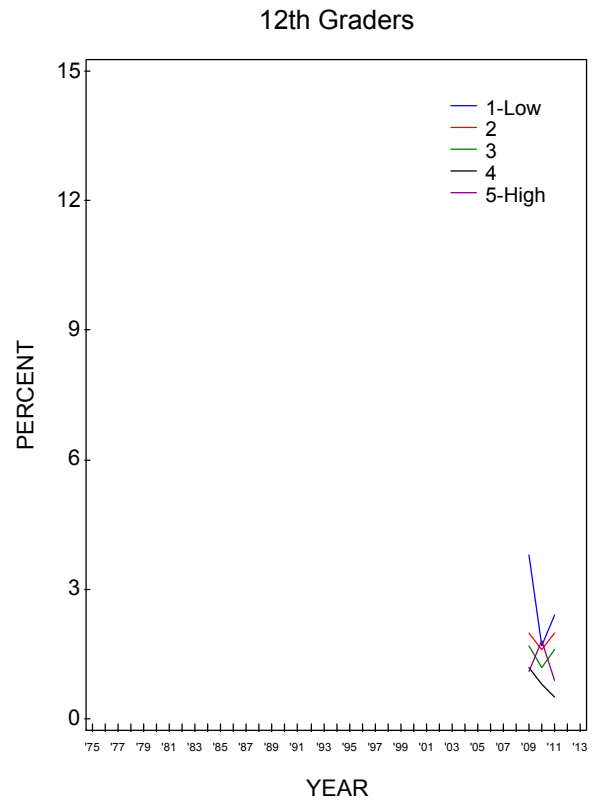
**FIGURE 154**  
**Provigil:\* Trends in Annual Prevalence by Population Density**



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

\*Question discontinued in 2012.

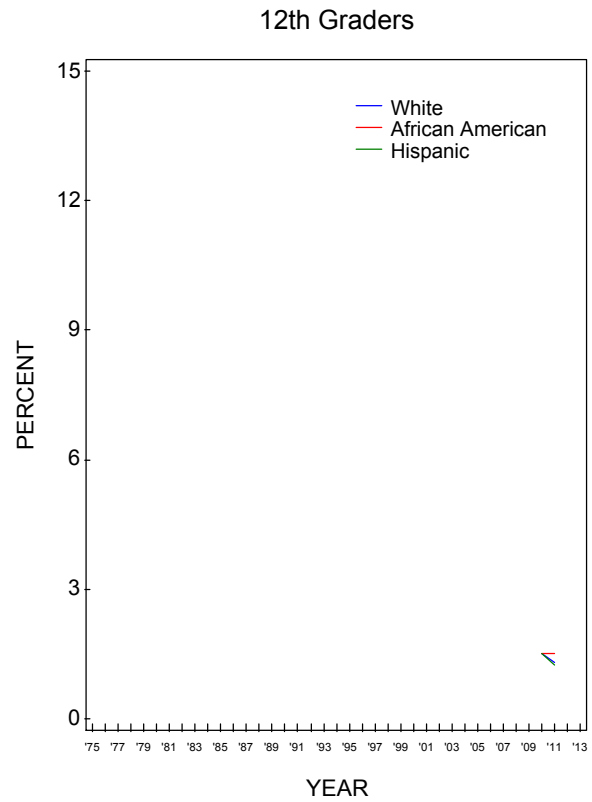
**FIGURE 155**  
**Provigil:\* Trends in Annual Prevalence by Average Education Level of Parents**



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

\*Question discontinued in 2012.

**FIGURE 156**  
**Provigil:\* Trends in Annual Prevalence by Race/Ethnicity\*\***



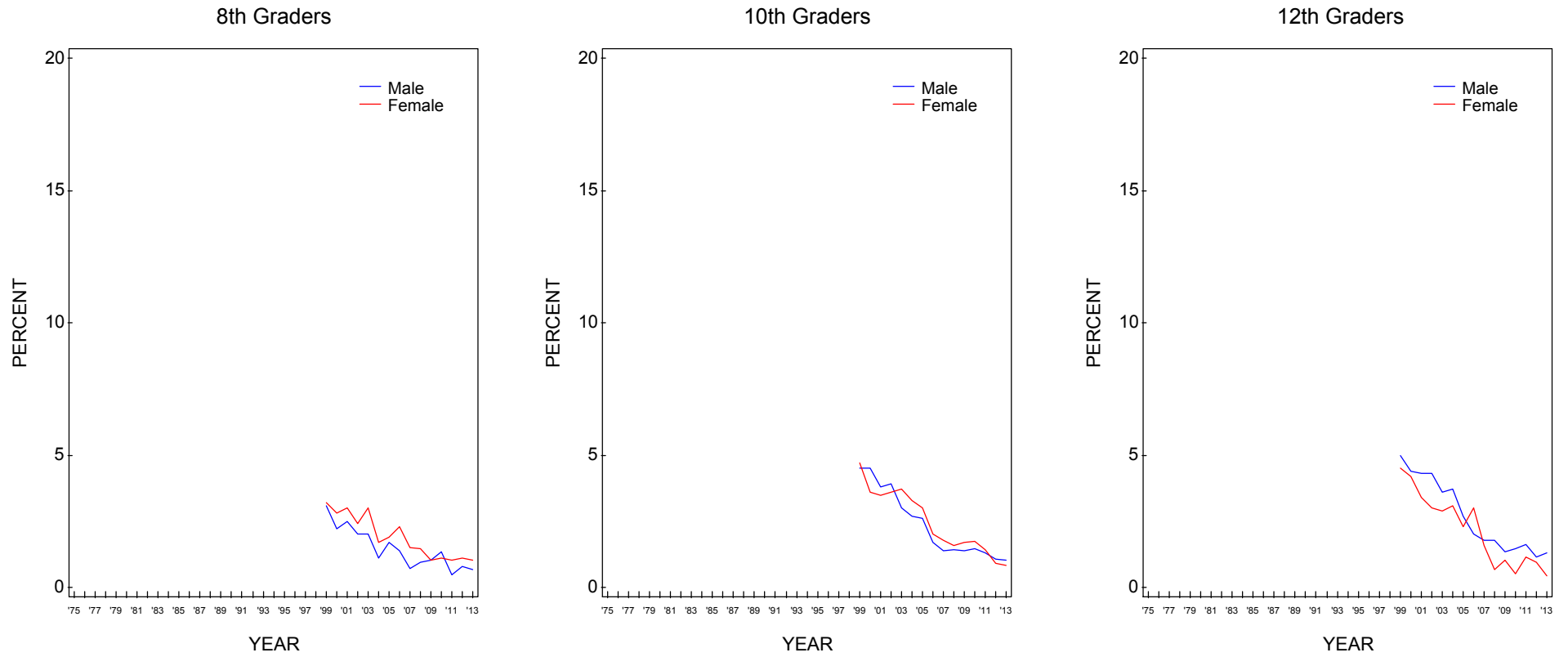
Source. The Monitoring the Future study, the University of Michigan.

\*Question discontinued in 2012.

\*\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

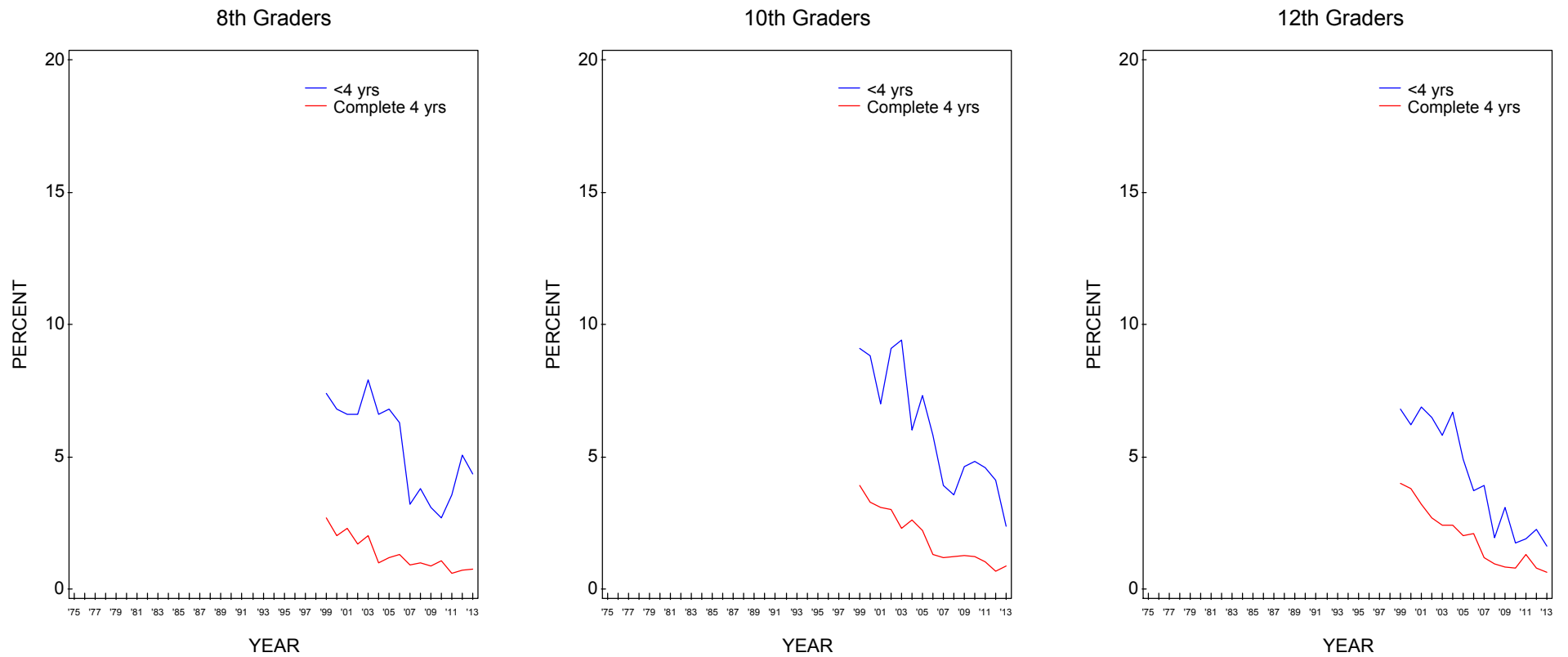


**FIGURE 157**  
**Methamphetamine: Trends in Annual Prevalence by Gender**



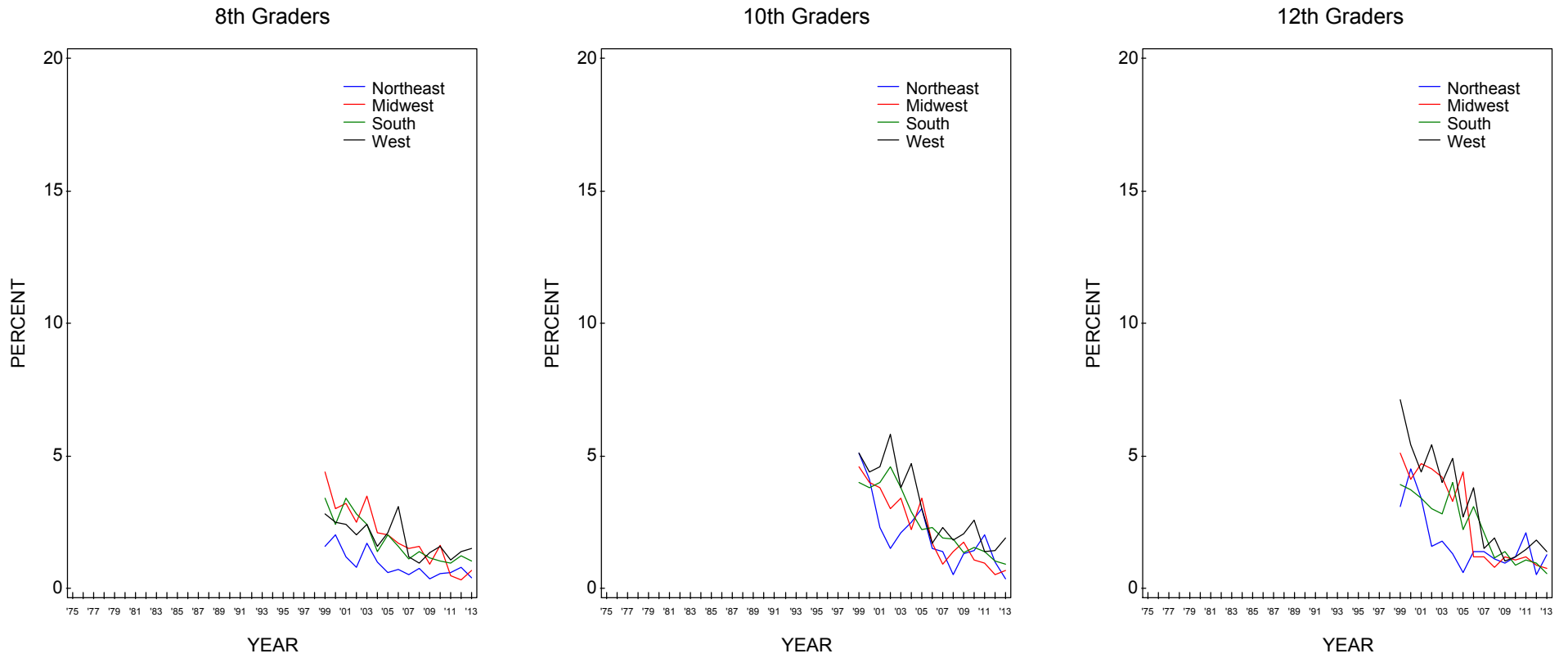
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 158**  
**Methamphetamine: Trends in Annual Prevalence by College Plans**



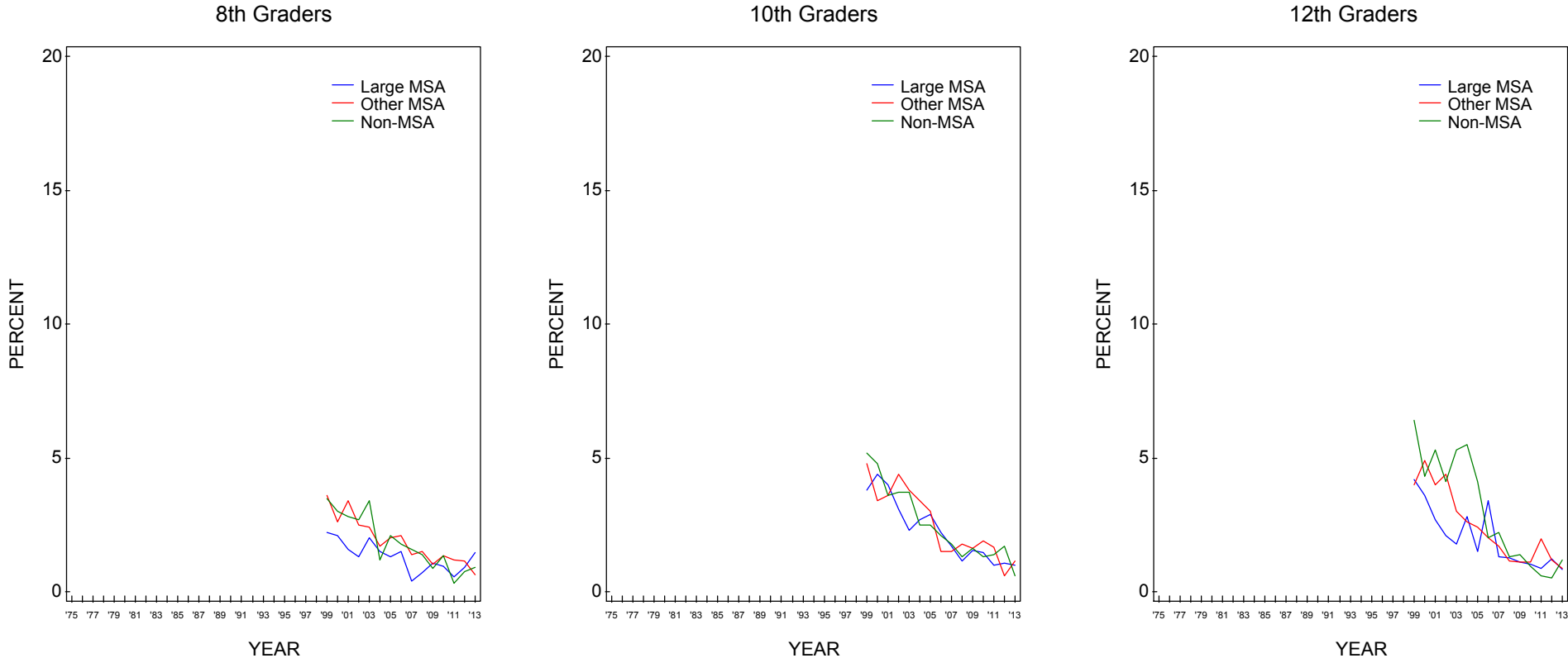
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 159**  
**Methamphetamine: Trends in Annual Prevalence by Region**



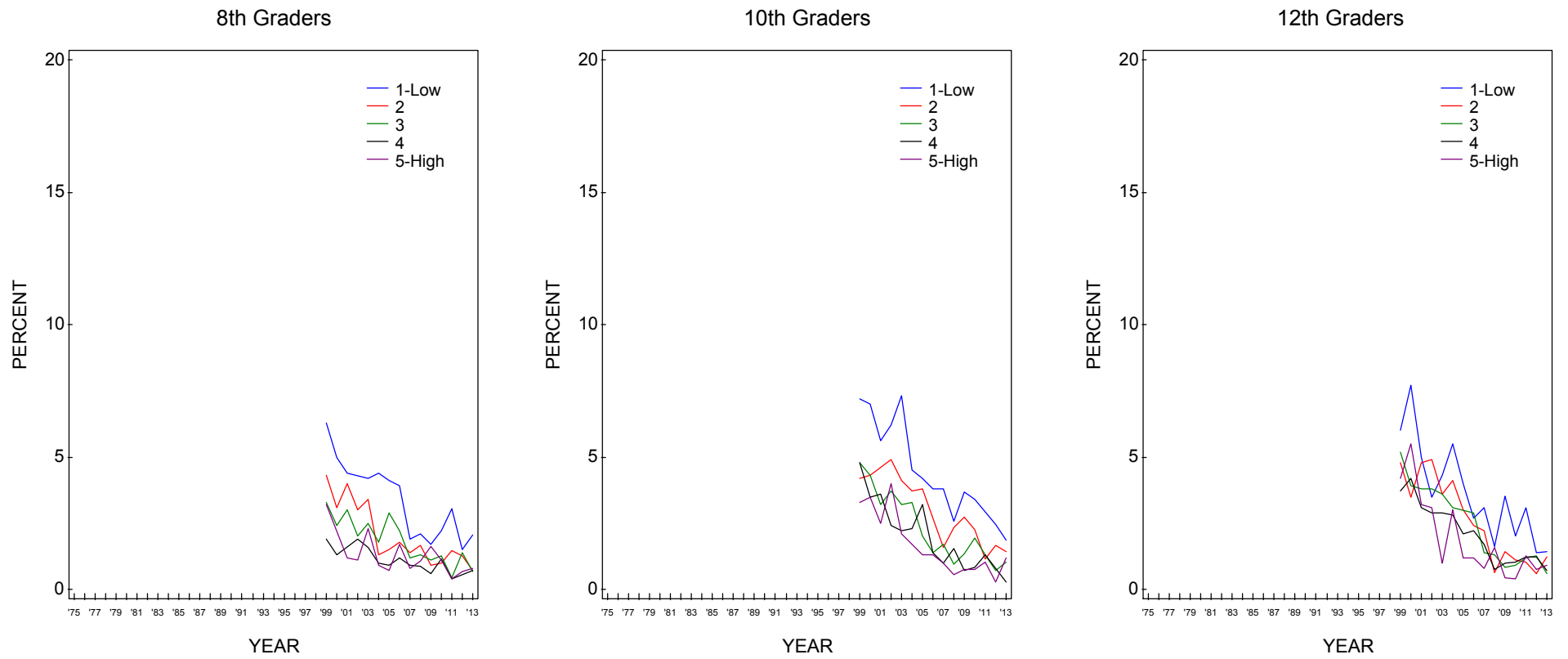
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 160**  
**Methamphetamine: Trends in Annual Prevalence by Population Density**



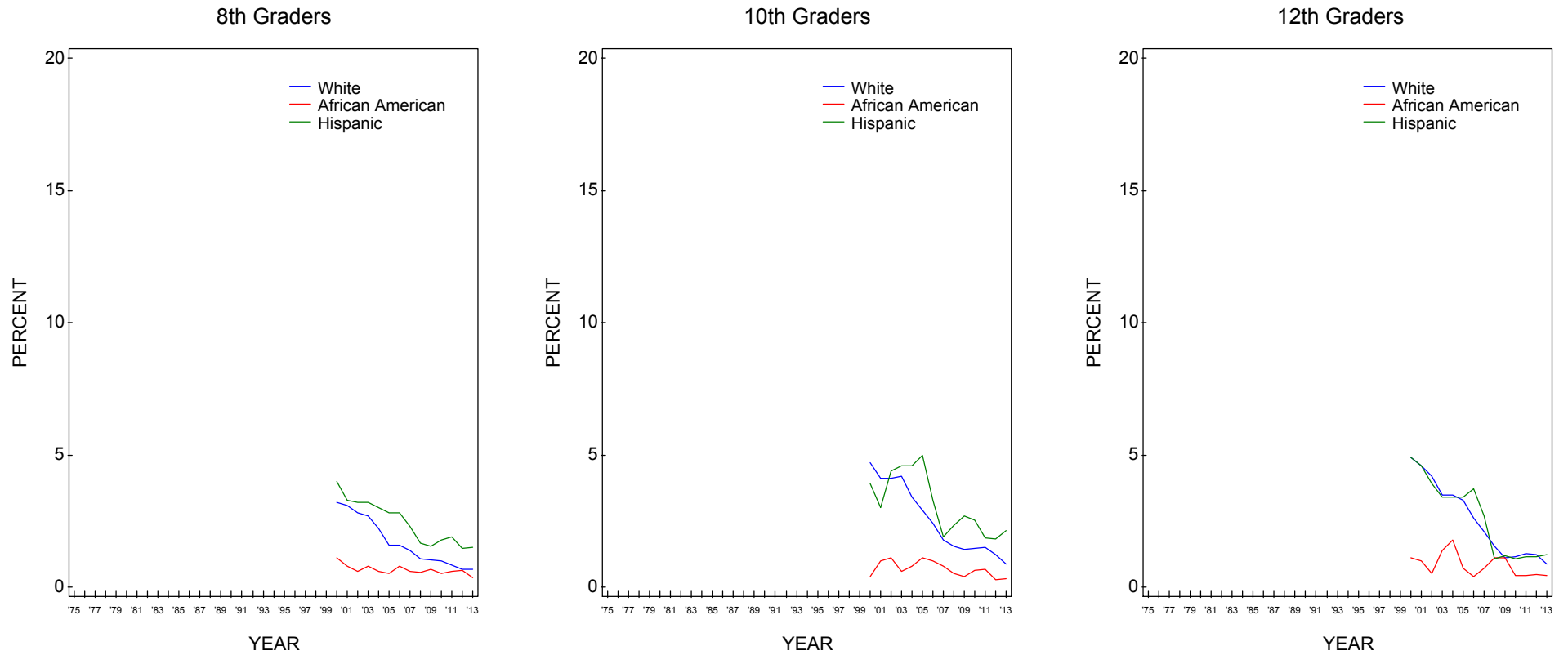
Source. The Monitoring the Future study, the University of Michigan.

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



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

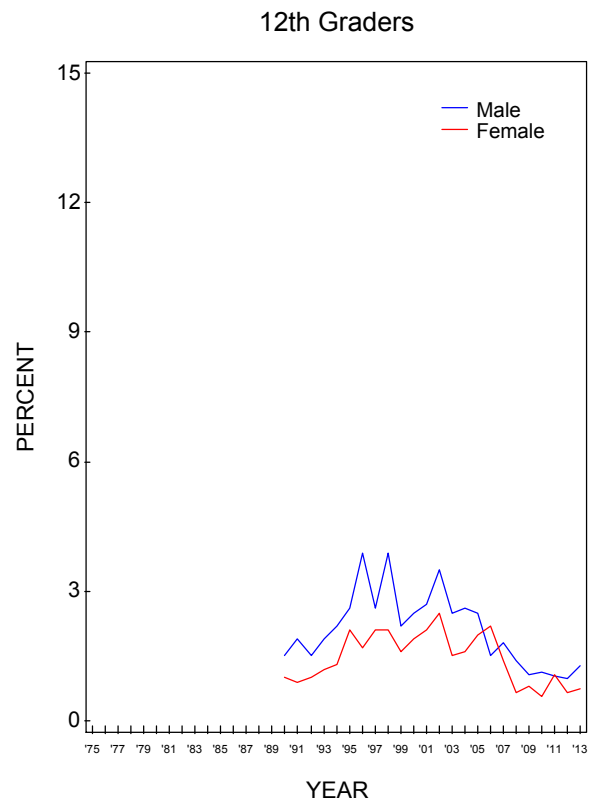
**FIGURE 162**  
**Methamphetamine: Trends in Annual Prevalence by Race/Ethnicity\***



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

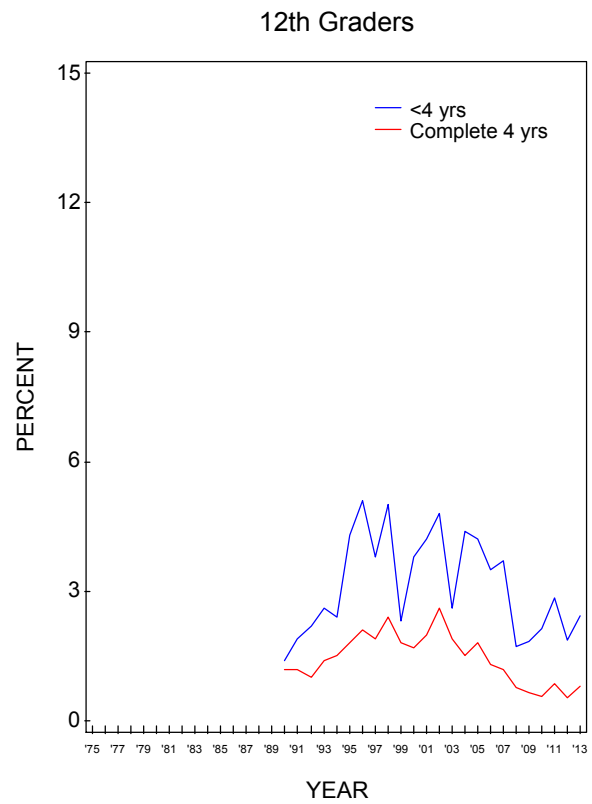
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

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



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

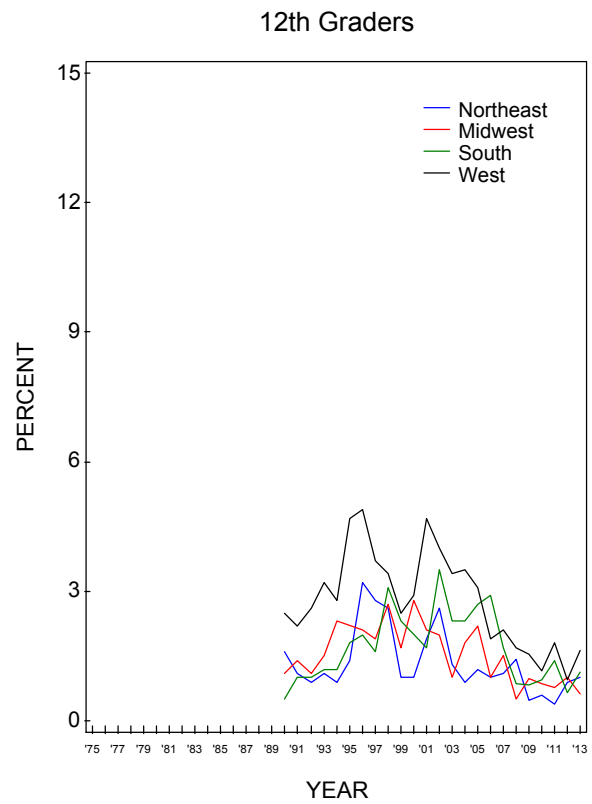
**FIGURE 164**  
**Crystal Methamphetamine (Ice): Trends in Annual Prevalence by College Plans**



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

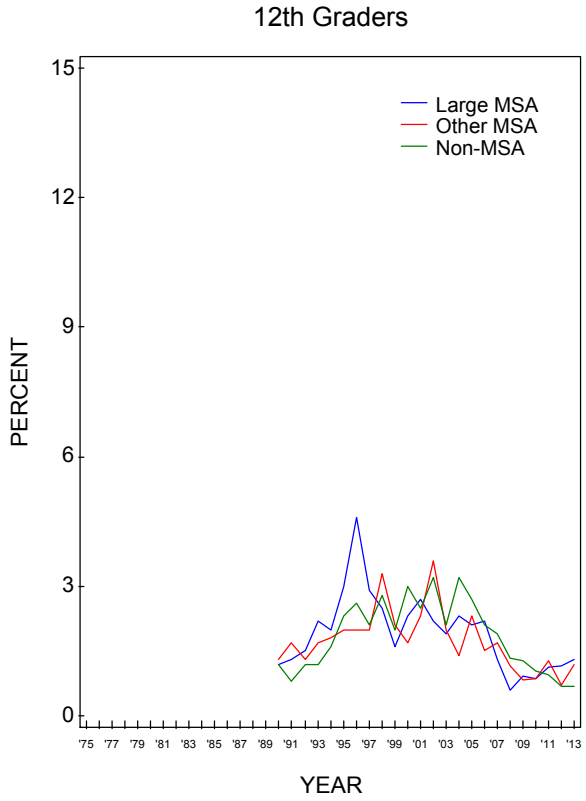


**FIGURE 165**  
**Crystal Methamphetamine (Ice): Trends in Annual Prevalence by Region**



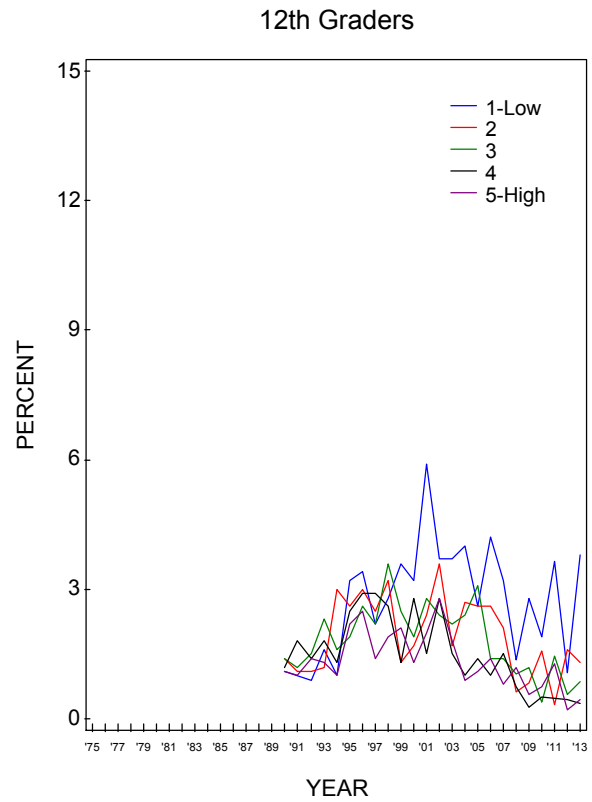
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 166**  
**Crystal Methamphetamine (Ice): Trends in Annual Prevalence by Population Density**



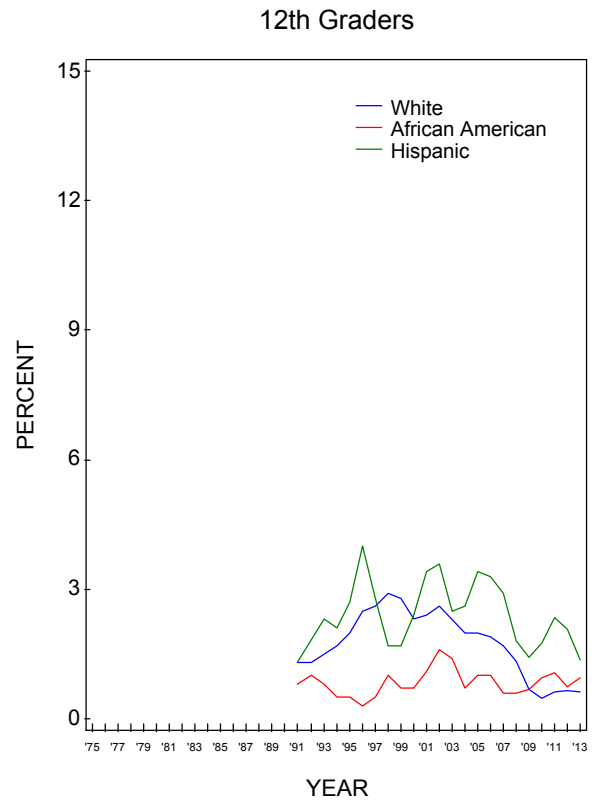
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 167**  
**Crystal Methamphetamine (Ice): Trends in Annual Prevalence by Average Education Level of Parents**



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

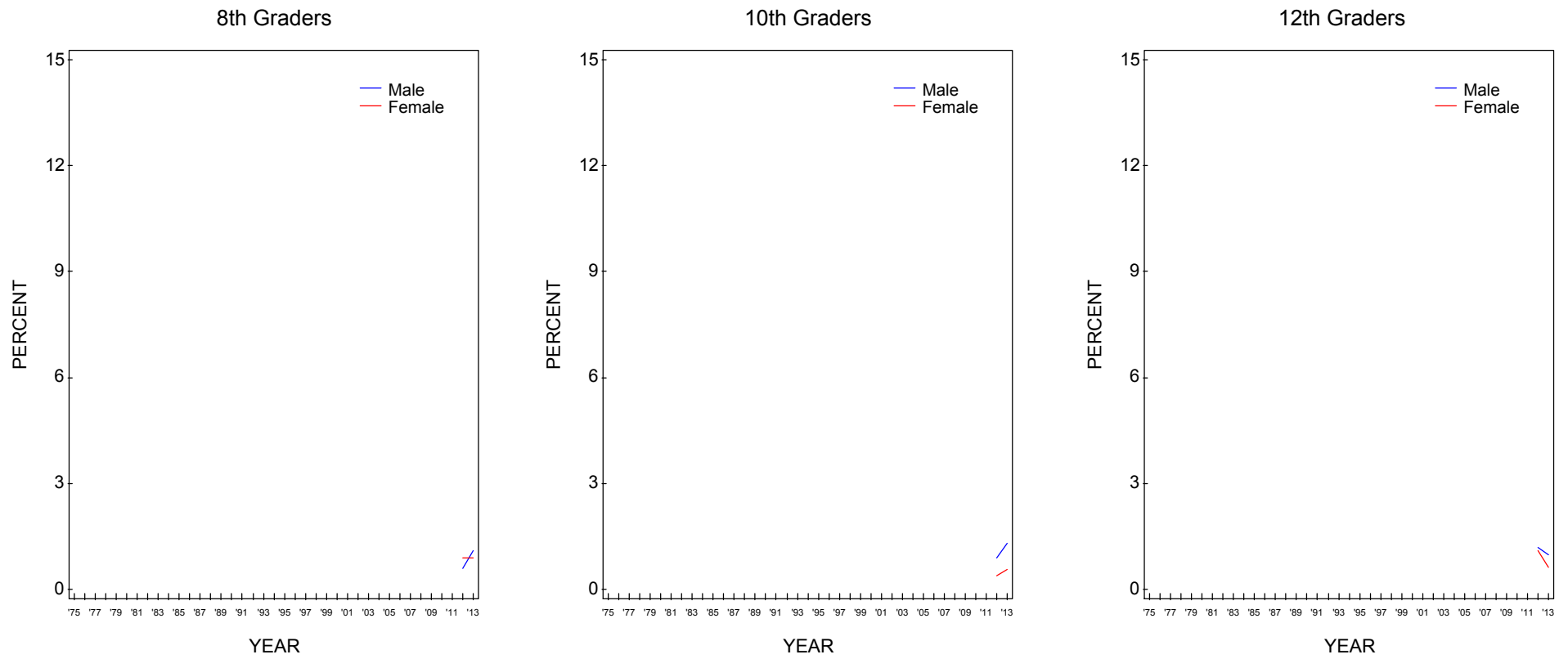
**FIGURE 168**  
**Crystal Methamphetamine (Ice): Trends in Annual Prevalence by Race/Ethnicity\***



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

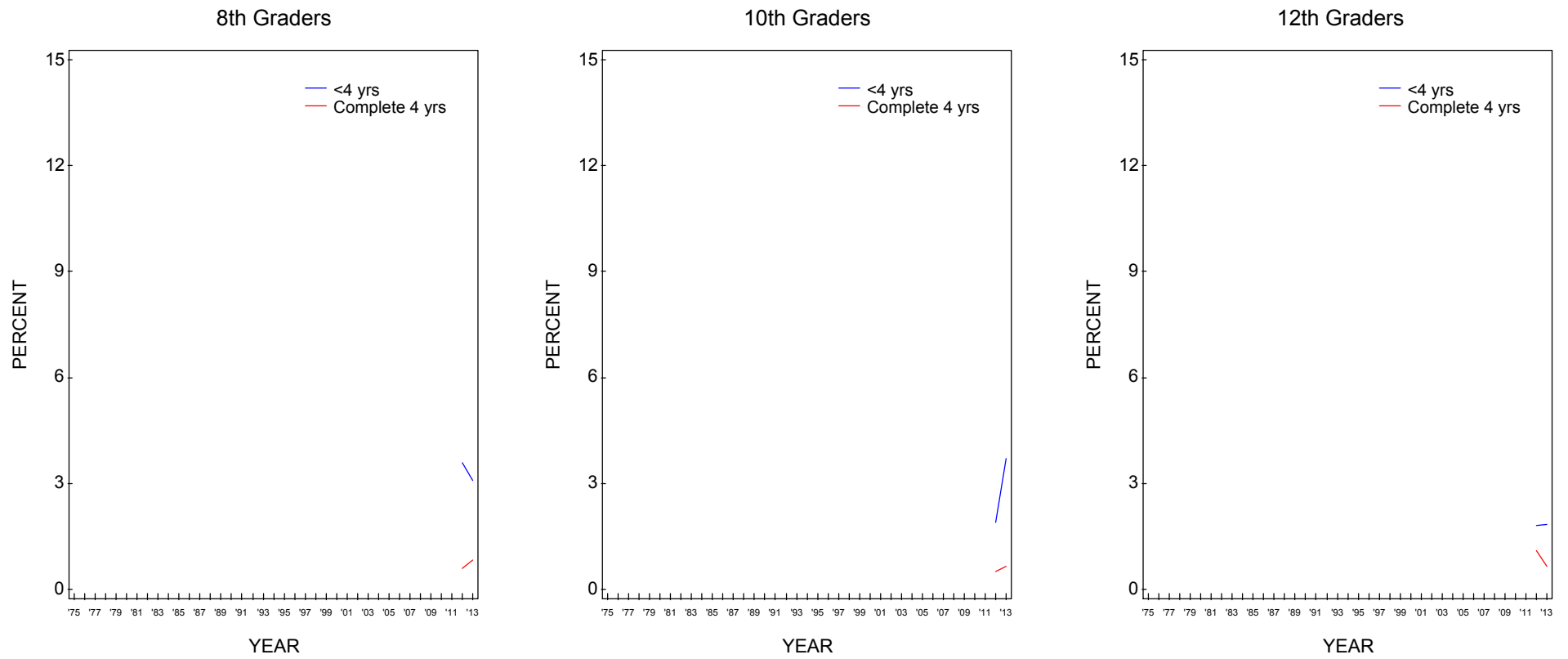
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

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



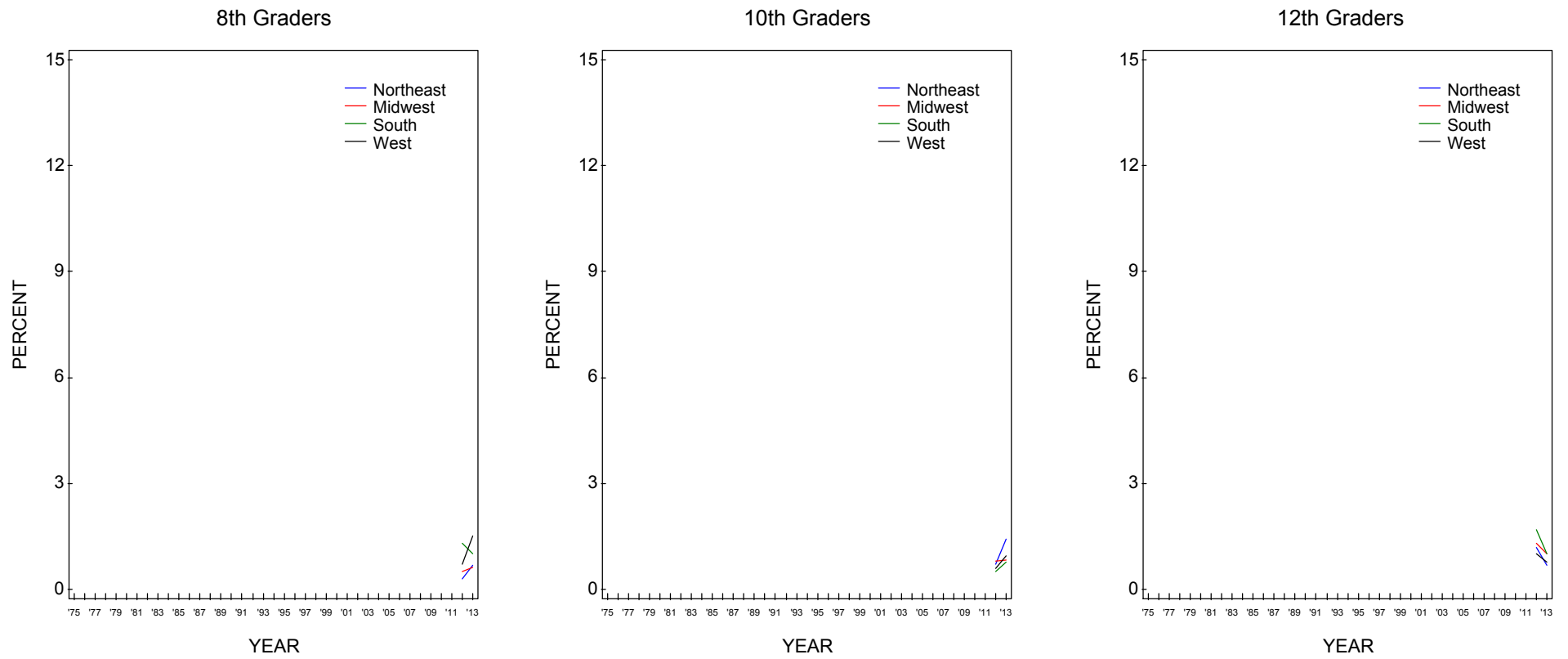
Source. The Monitoring the Future study, the University of Michigan.

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



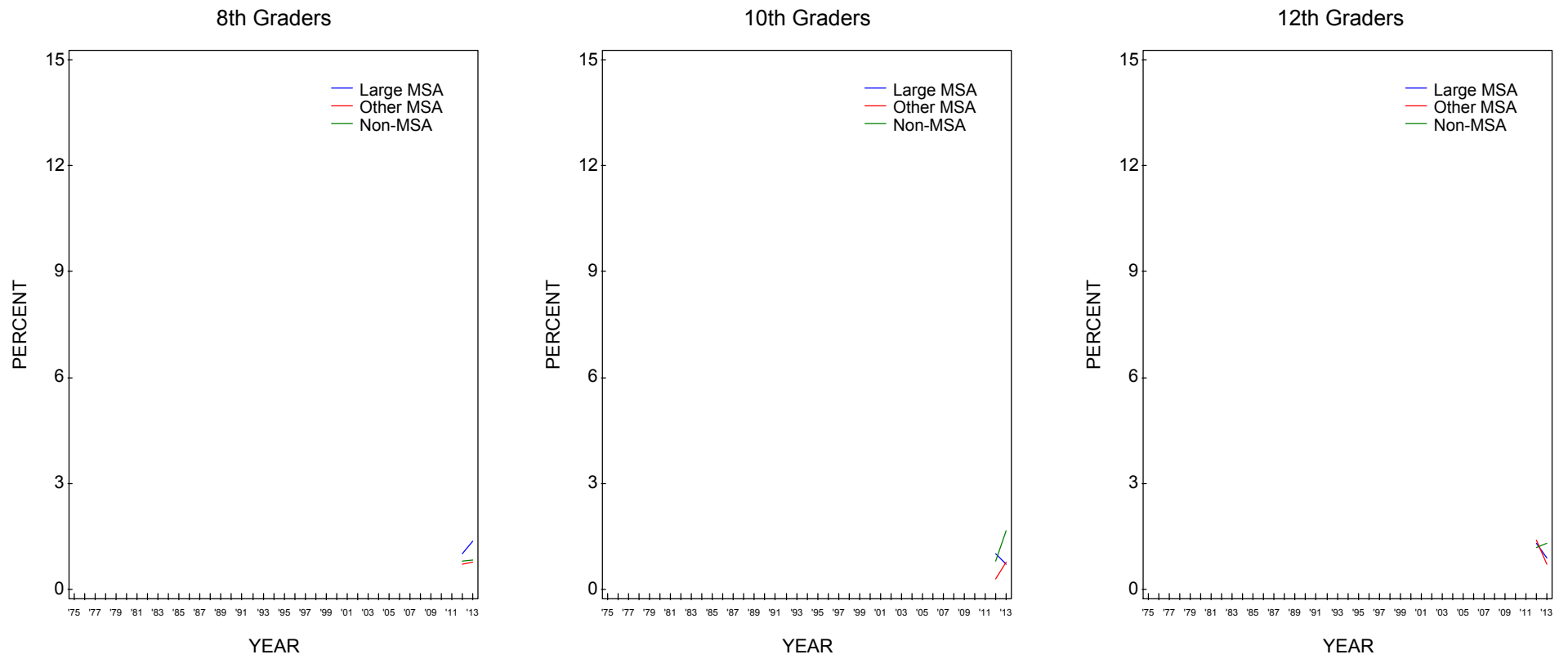
Source. The Monitoring the Future study, the University of Michigan.

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



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

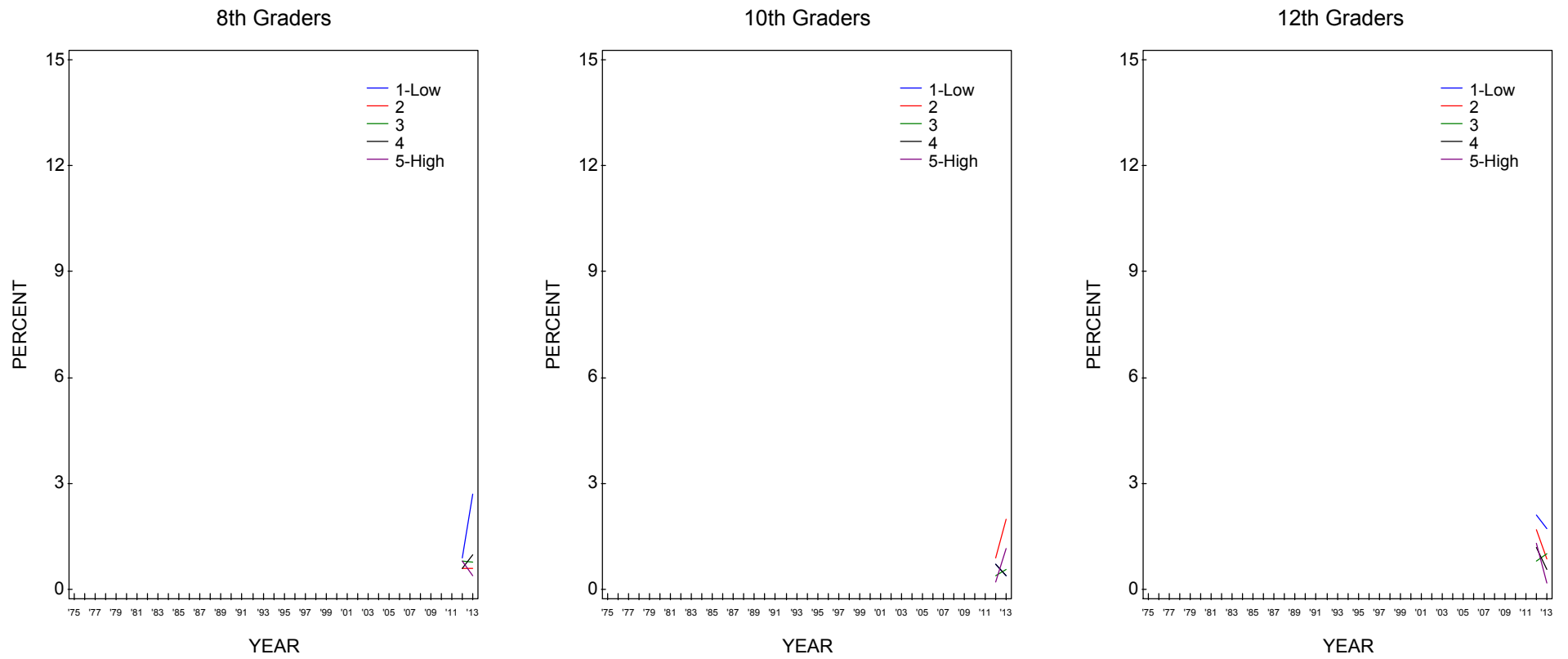
**FIGURE 172**  
**Bath Salts (Synthetic Stimulants): Trends in Annual Prevalence by Population Density**



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

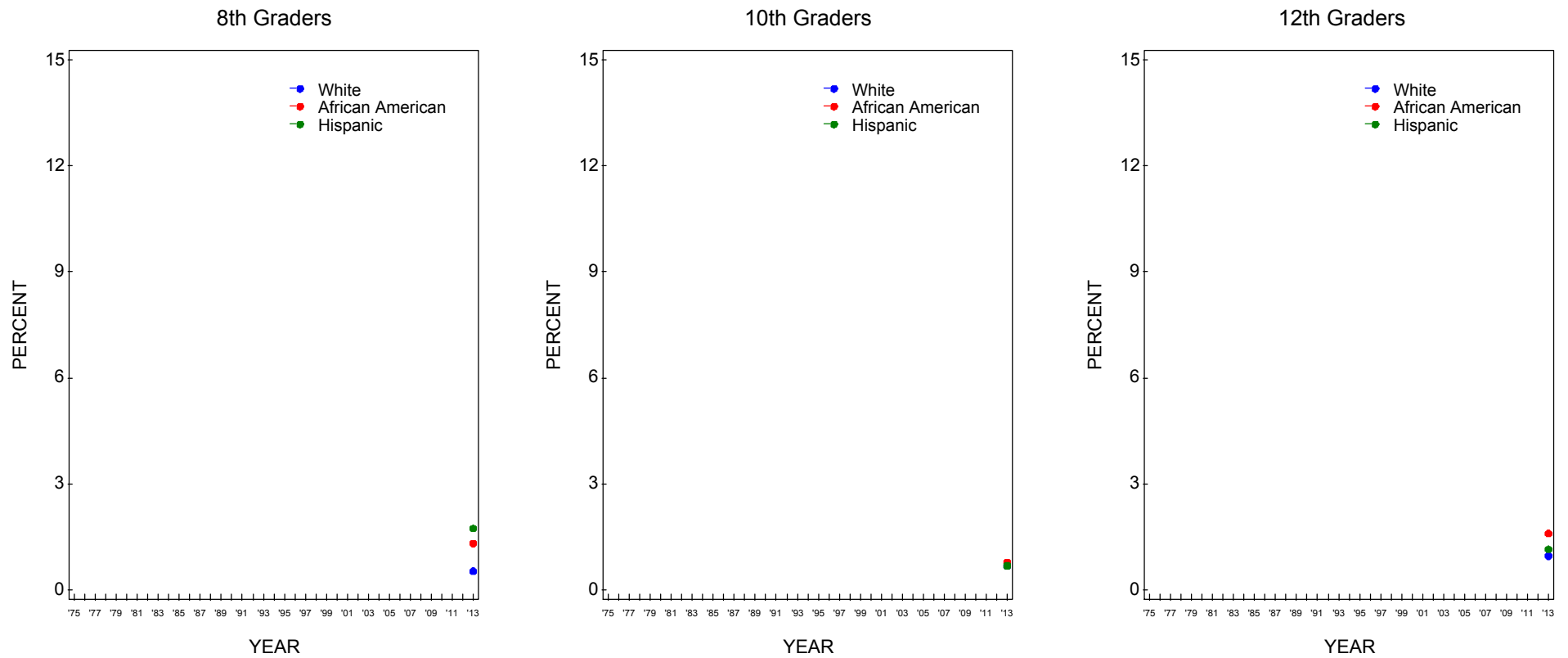


**FIGURE 173**  
**Bath Salts (Synthetic Stimulants): Trends in Annual Prevalence by Average Education Level of Parents**



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

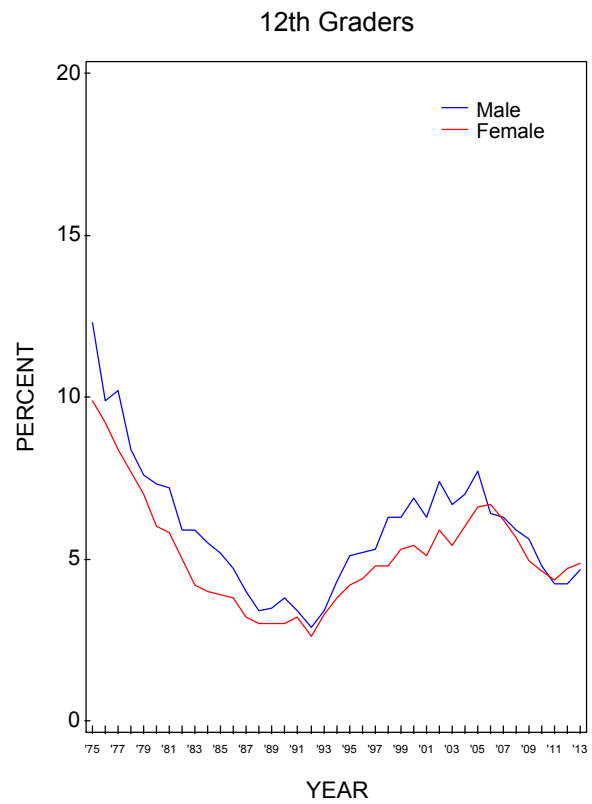
**FIGURE 174**  
**Bath Salts (Synthetic Stimulants): Trends in Annual Prevalence by Race/Ethnicity\***



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

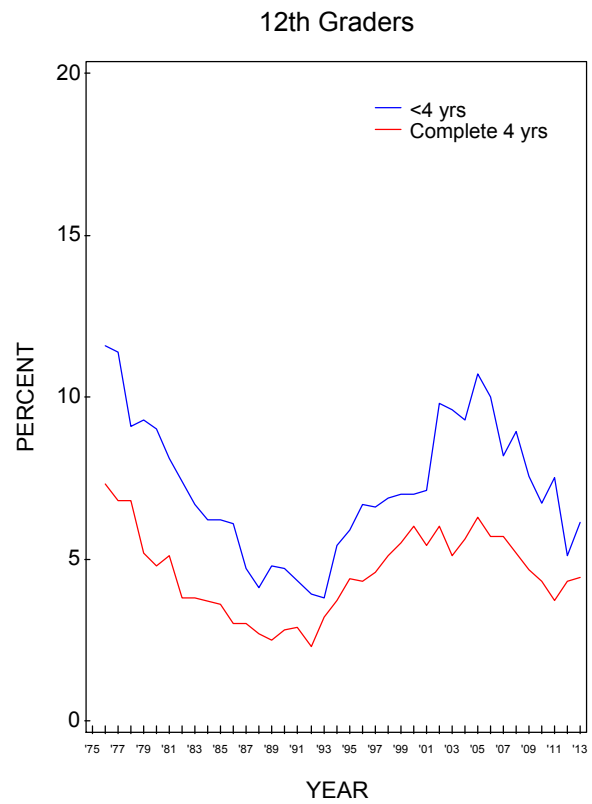
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 175**  
**Sedatives (Barbiturates): Trends in Annual Prevalence by Gender**



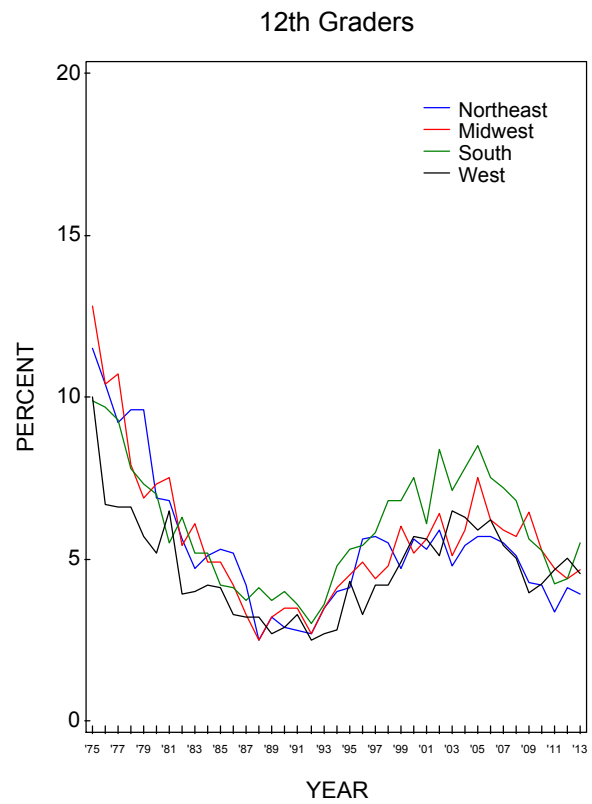
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 17**  
**Sedatives (Barbiturates): Trends in Annual Prevalence by College Plans**



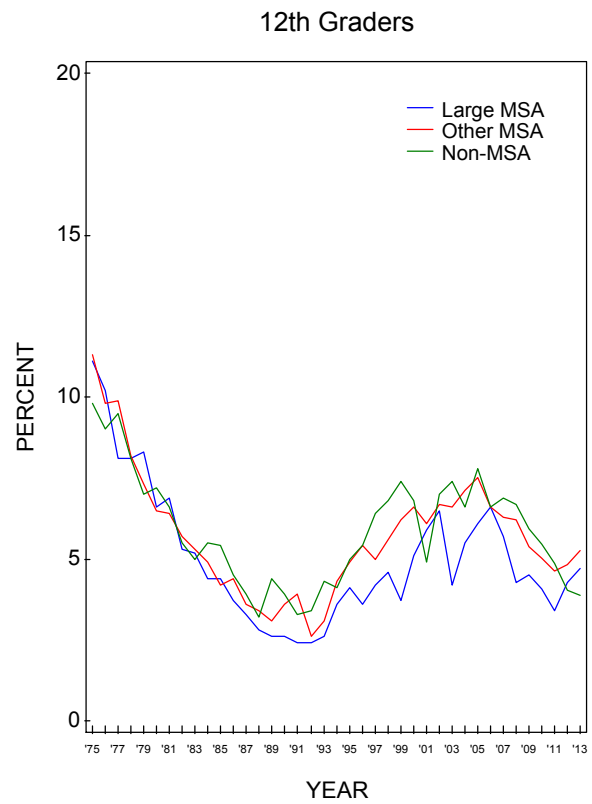
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 177**  
**Sedatives (Barbiturates): Trends in Annual Prevalence by Region**



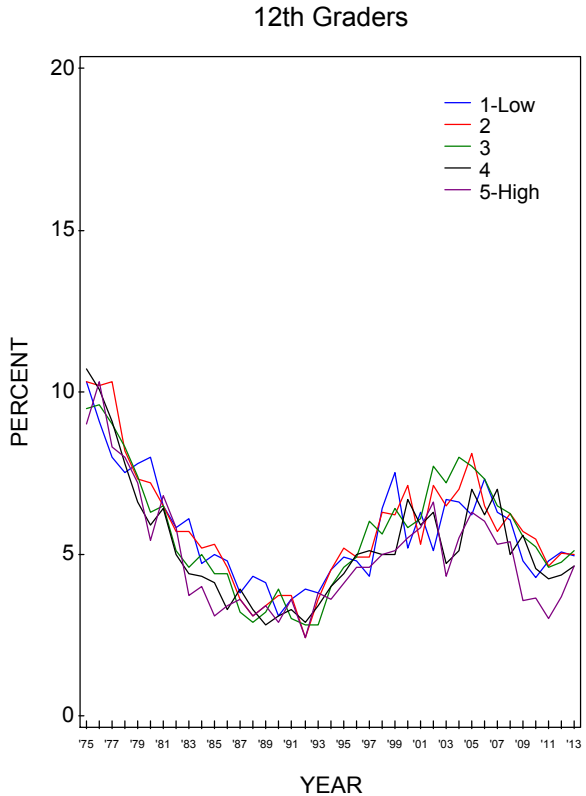
Source. The Monitoring the Future study, the University of Michigan.

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



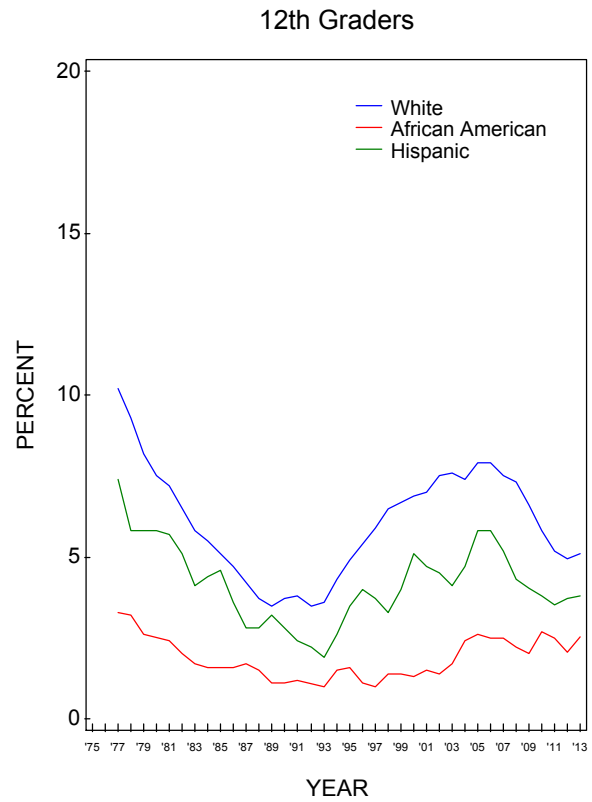
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 179**  
**Sedatives (Barbiturates): Trends in Annual Prevalence by Average Education Level of Parents**



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

**FIGURE 180**  
**Sedatives (Barbiturates): Trends in Annual Prevalence by Race/Ethnicity\***

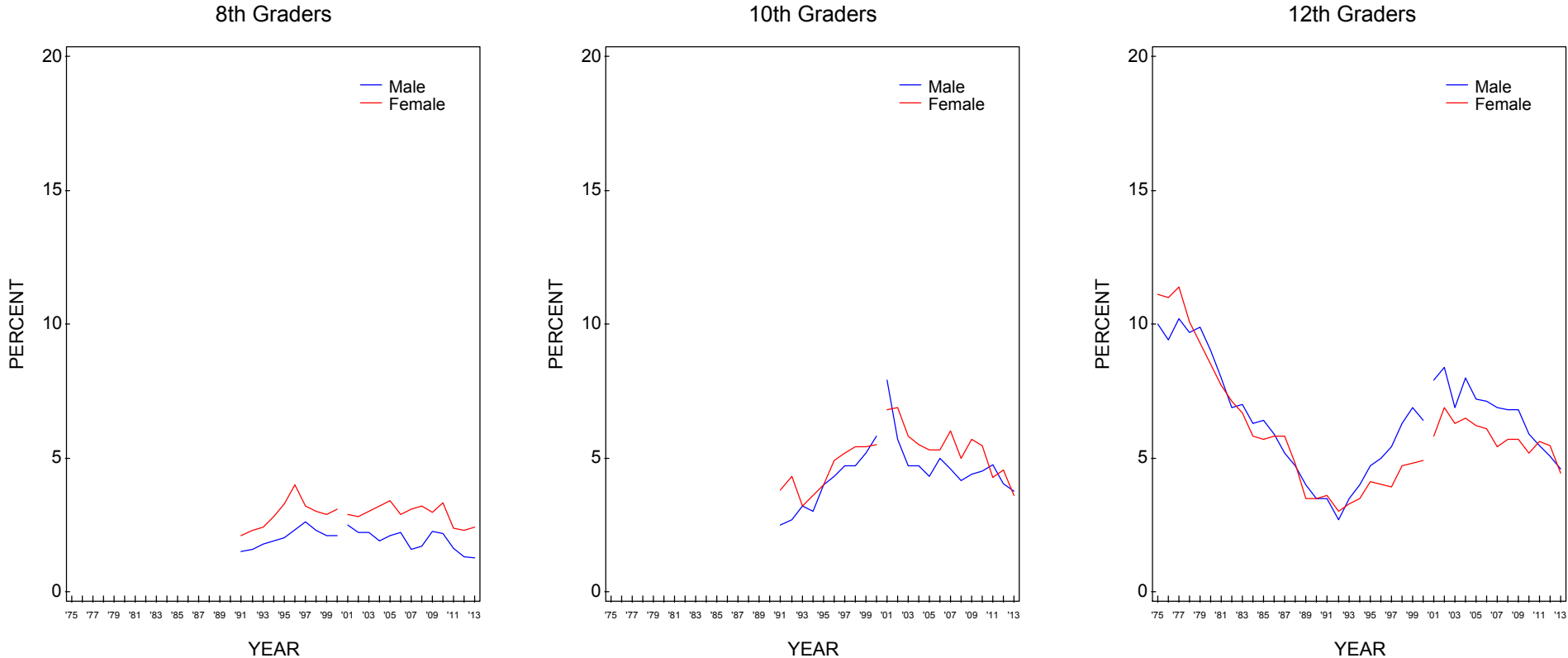


Source. The Monitoring the Future study, the University of Michigan.

\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

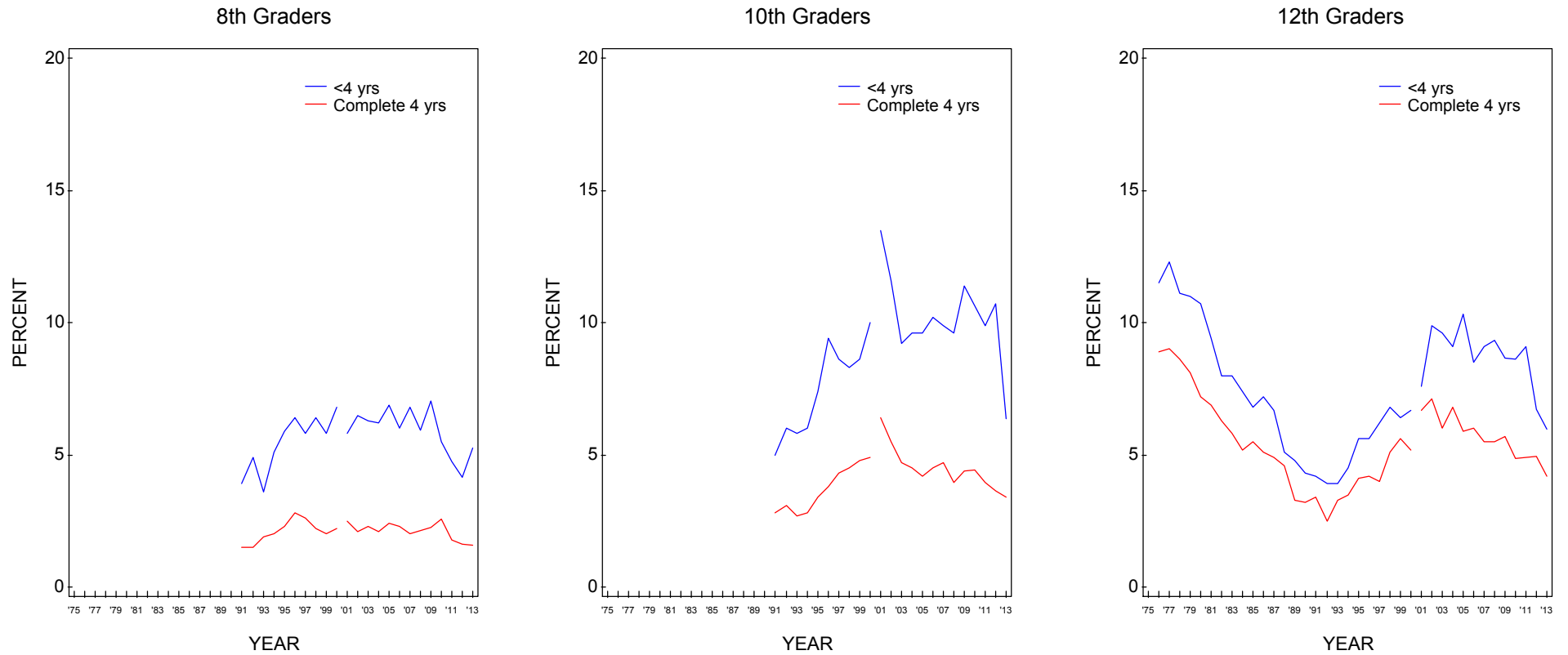


**FIGURE 181**  
**Tranquilizers:\* Trends in Annual Prevalence by Gender**



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

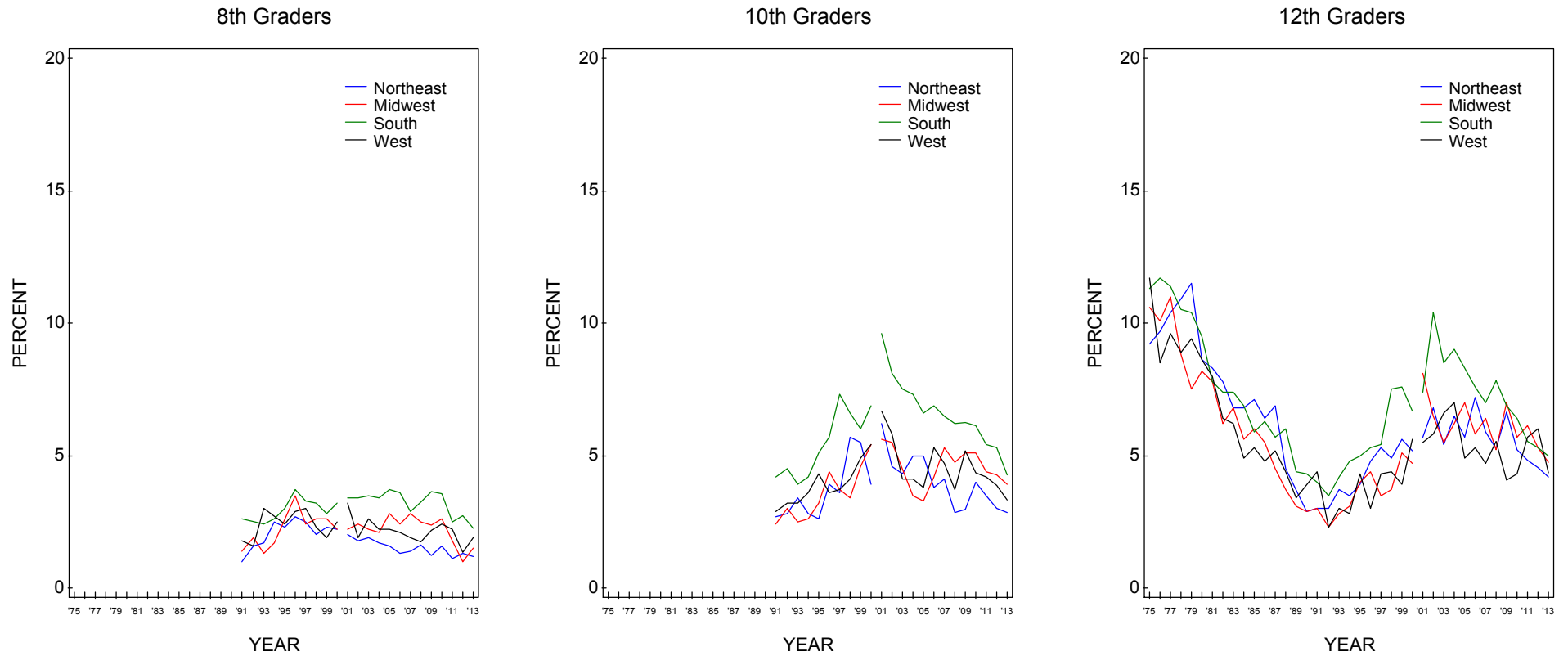
**FIGURE 182**  
**Tranquilizers:\* Trends in Annual Prevalence by College Plans**



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

\*Beginning in 2001, a revised set of questions on tranquilizer use was introduced. Refer to corresponding tables for further details.

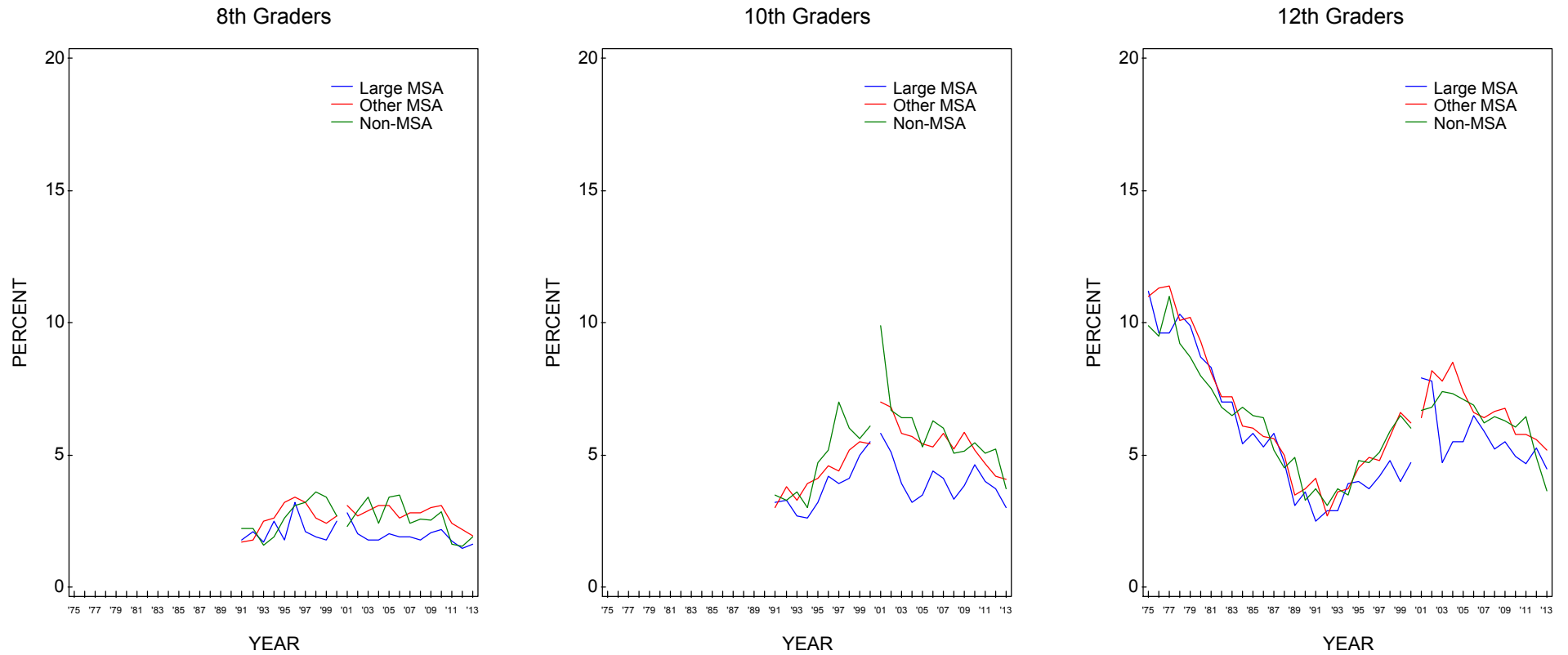
**FIGURE 183**  
**Tranquilizers:\* Trends in Annual Prevalence by Region**



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

\*Beginning in 2001, a revised set of questions on tranquilizer use was introduced. Refer to corresponding tables for further details.

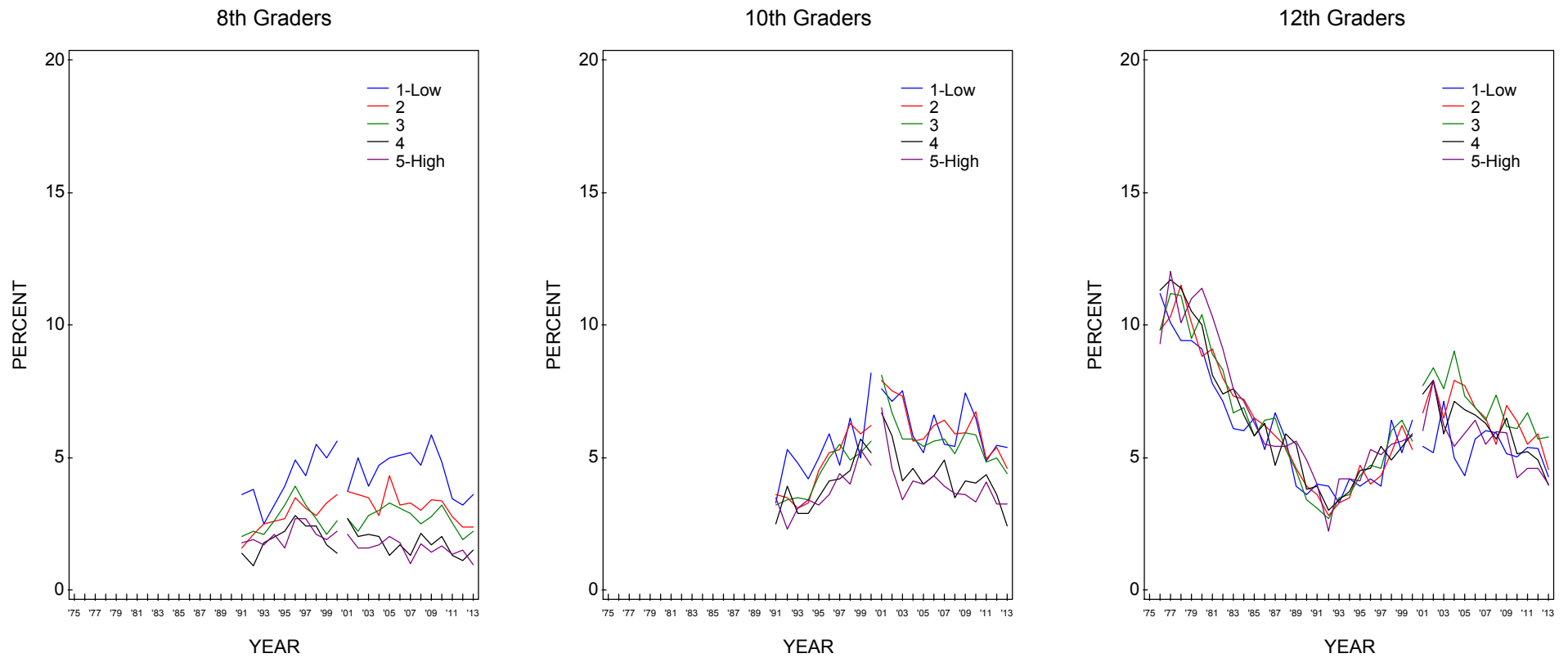
**FIGURE 184**  
**Tranquilizers:\* Trends in Annual Prevalence by Population Density**



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

\*Beginning in 2001, a revised set of questions on tranquilizer use was introduced. Refer to corresponding tables for further details.

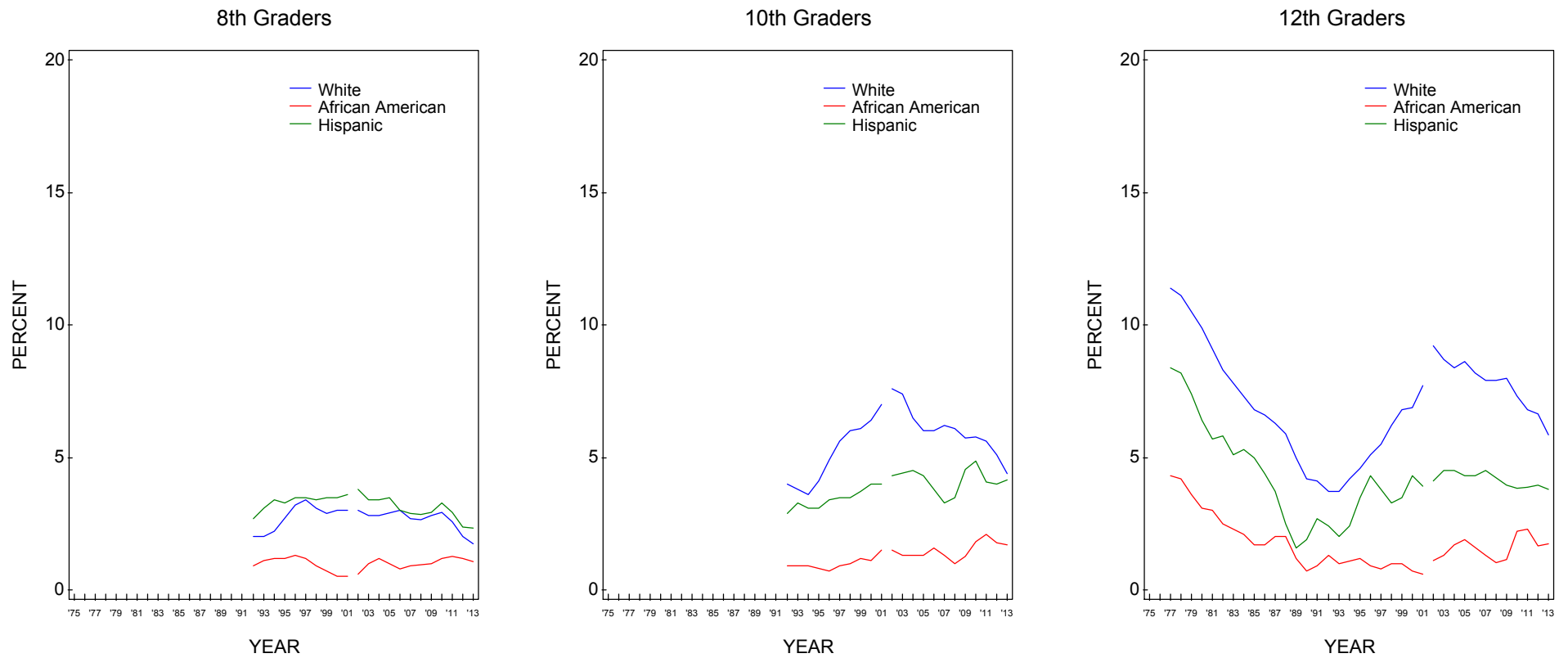
**FIGURE 185**  
**Tranquilizers:\* Trends in Annual Prevalence by Average Education Level of Parents**



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

\*Beginning in 2001, a revised set of questions on tranquilizer use was introduced. Refer to corresponding tables for further details.

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

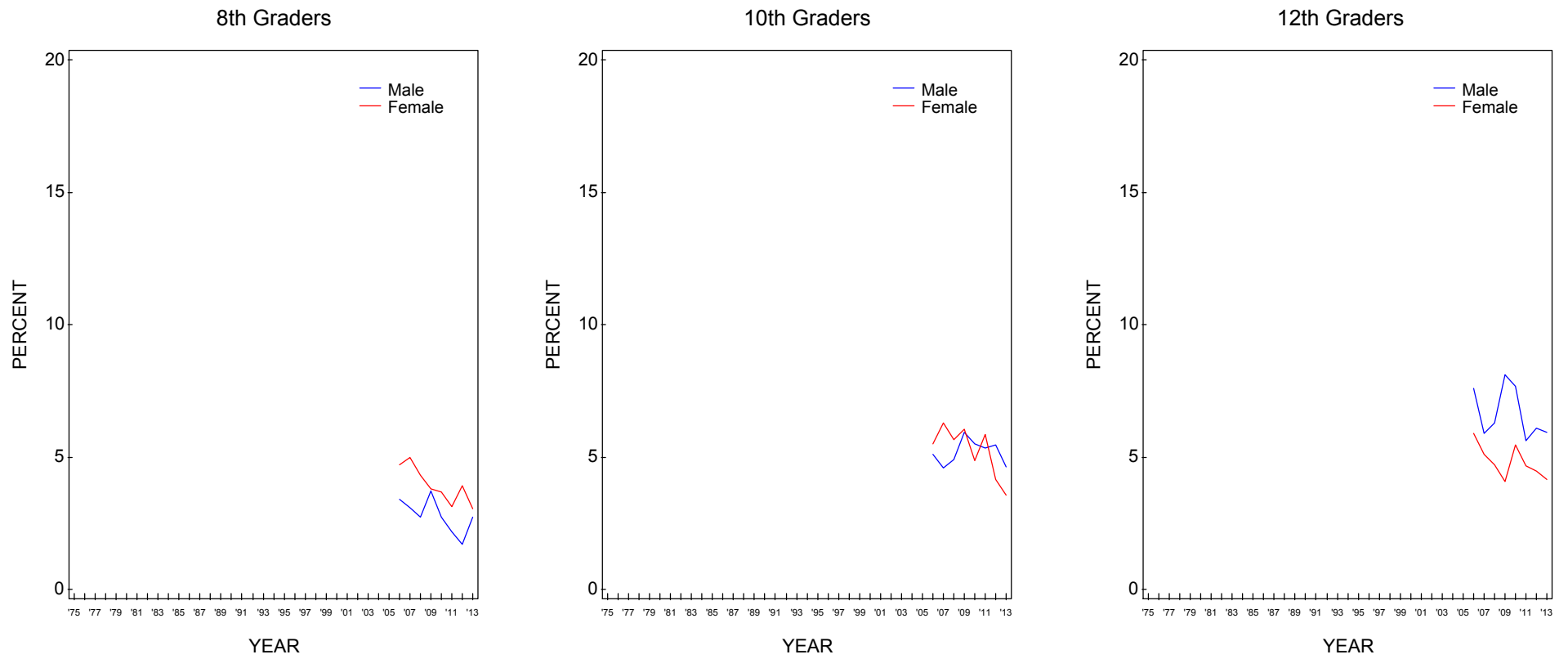


Source. The Monitoring the Future study, the University of Michigan.

\*Beginning in 2001, a revised set of questions on tranquilizer use was introduced. Refer to corresponding tables for further details.

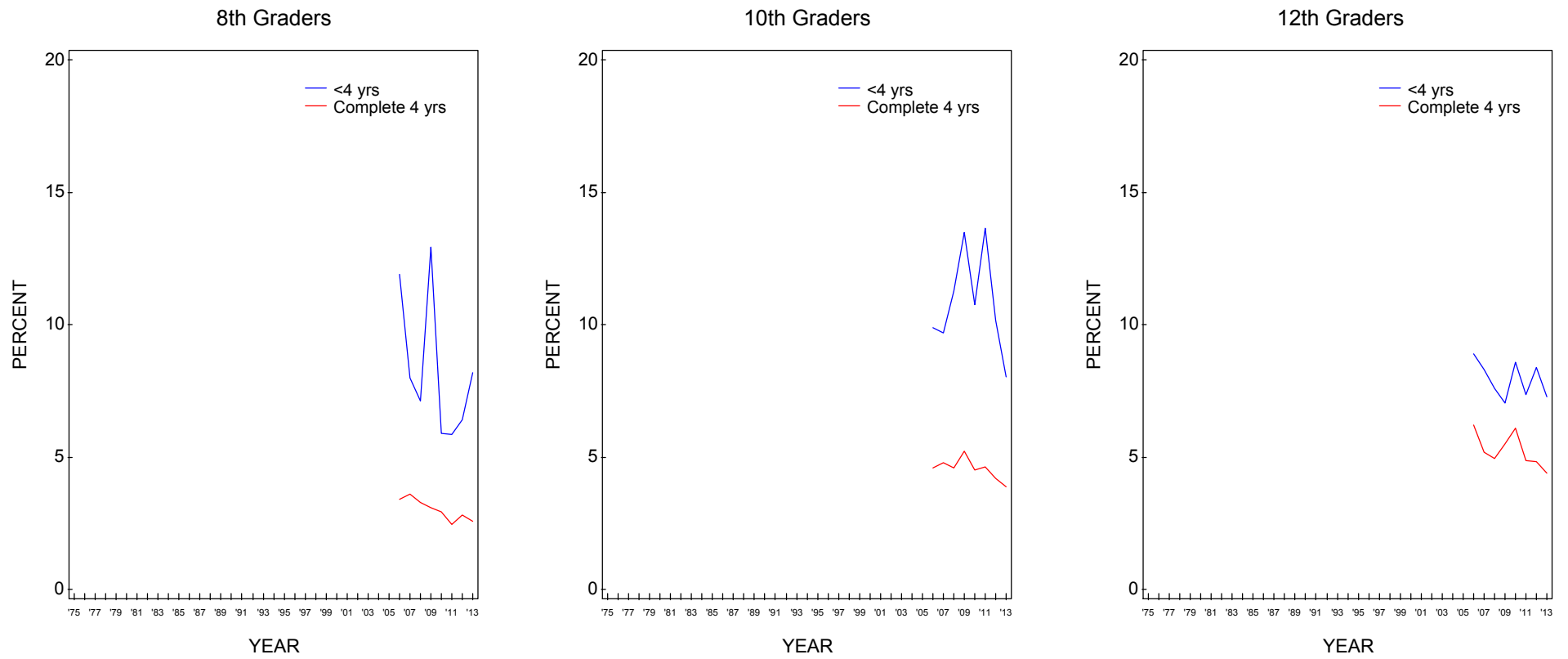
\*\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

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



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

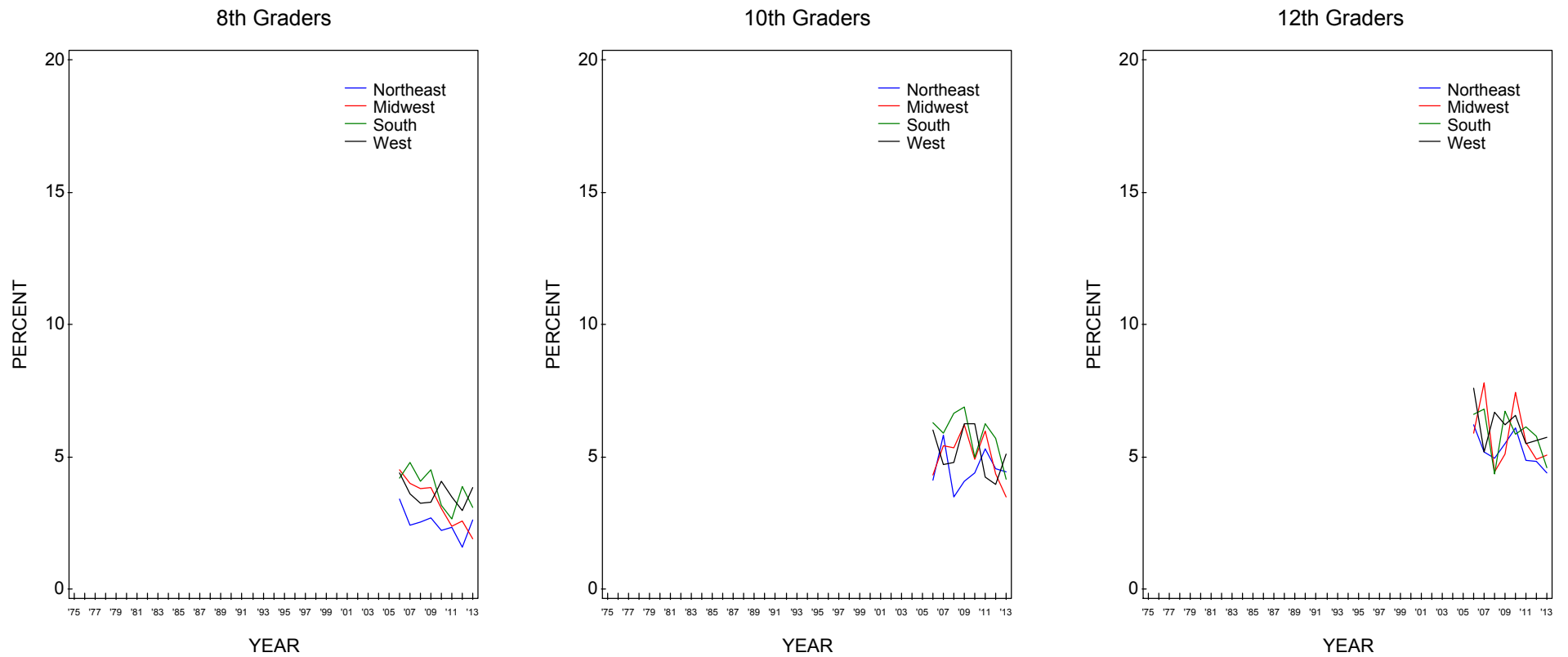
**FIGURE 188**  
**Over-the-Counter Cough/Cold Medicines: Trends in Annual Prevalence by College Plans**



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

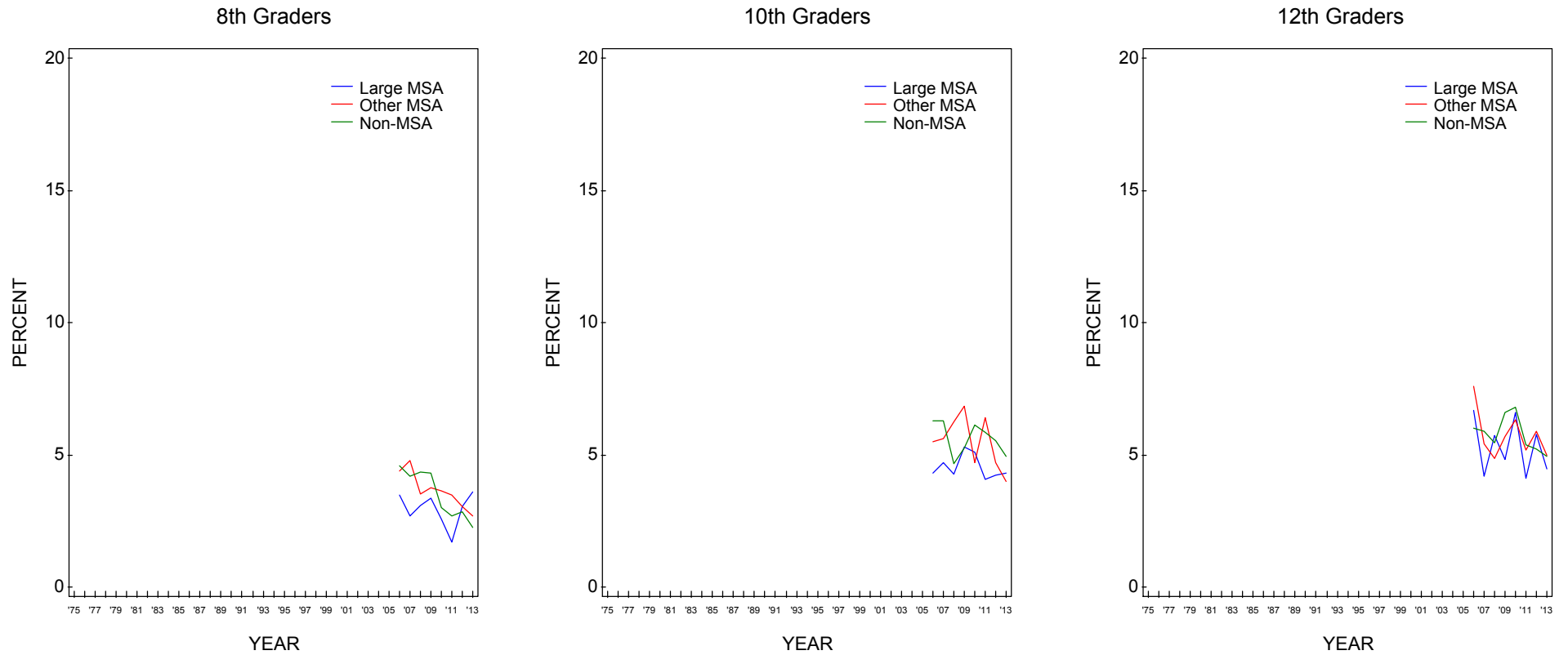


**FIGURE 189**  
**Over-the-Counter Cough/Cold Medicines: Trends in Annual Prevalence by Region**



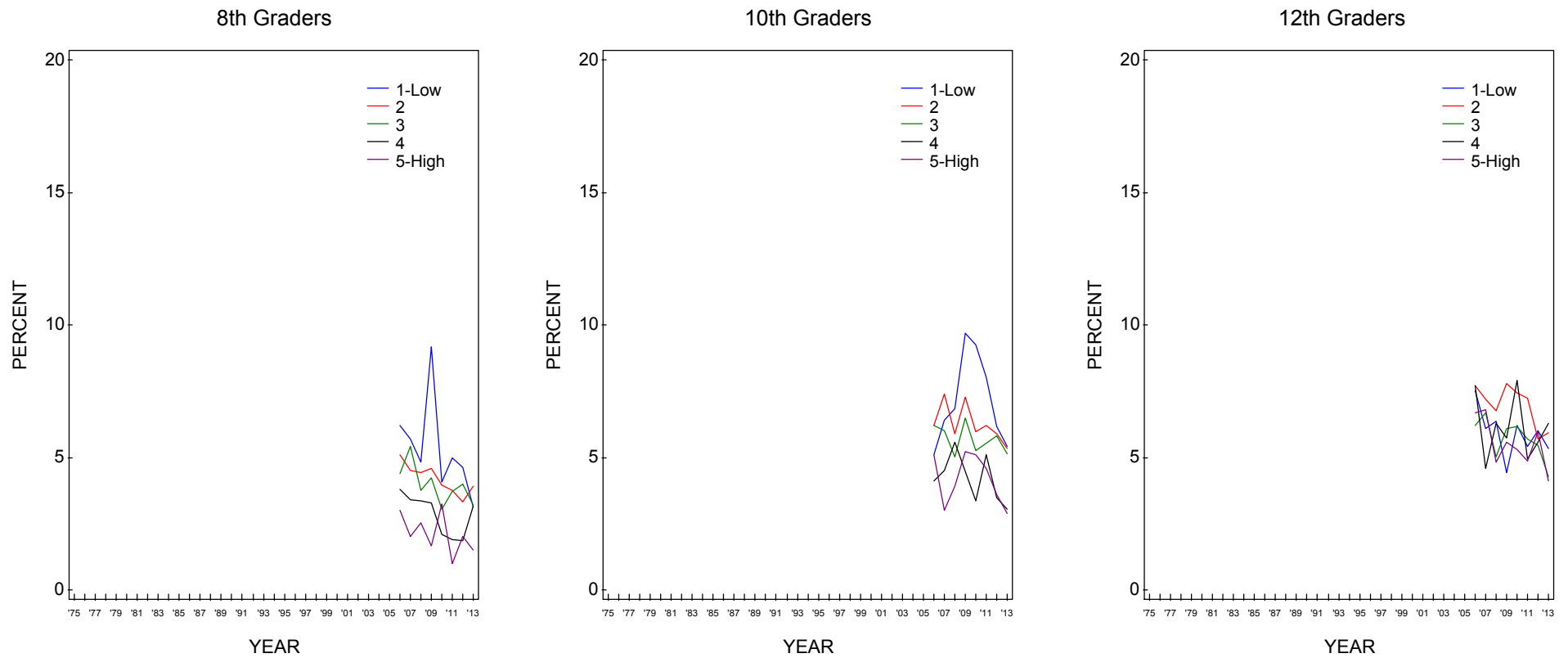
Source. The Monitoring the Future study, the University of Michigan.

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



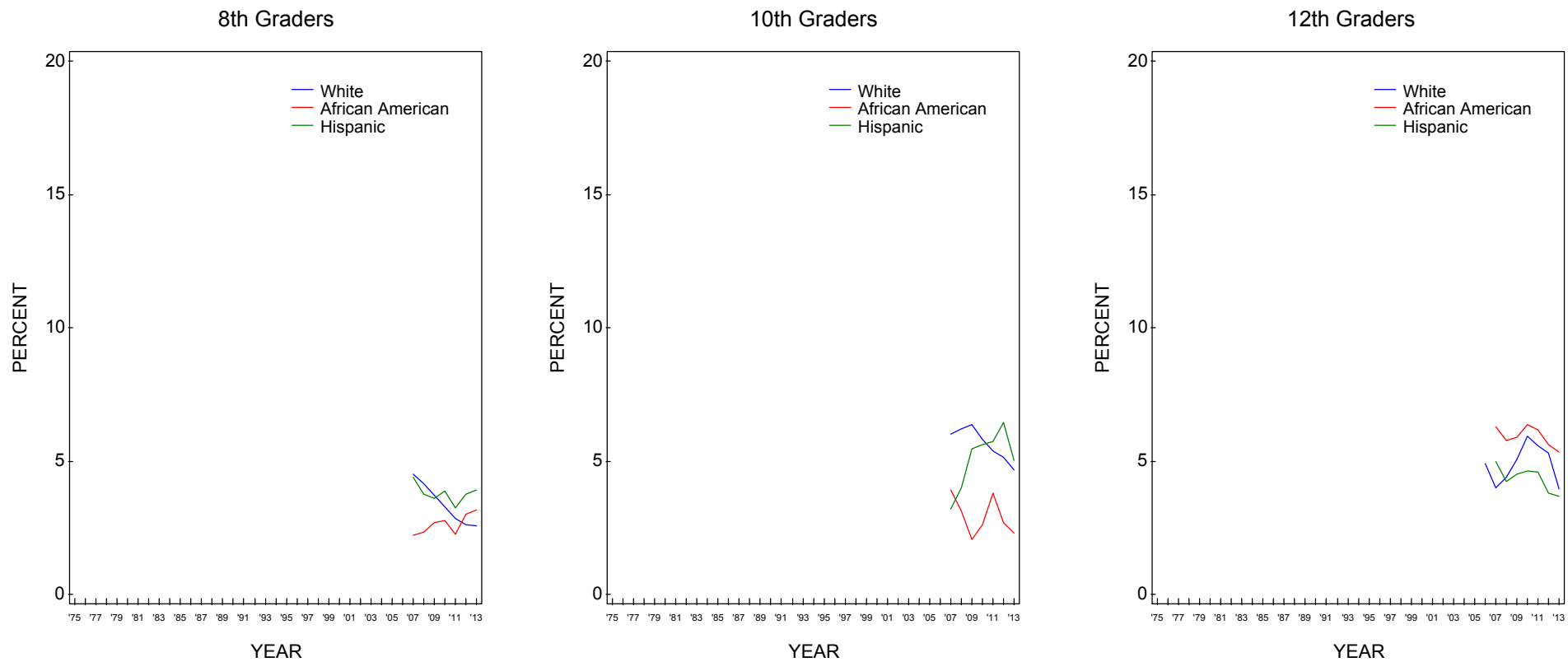
Source. The Monitoring the Future study, the University of Michigan.

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



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

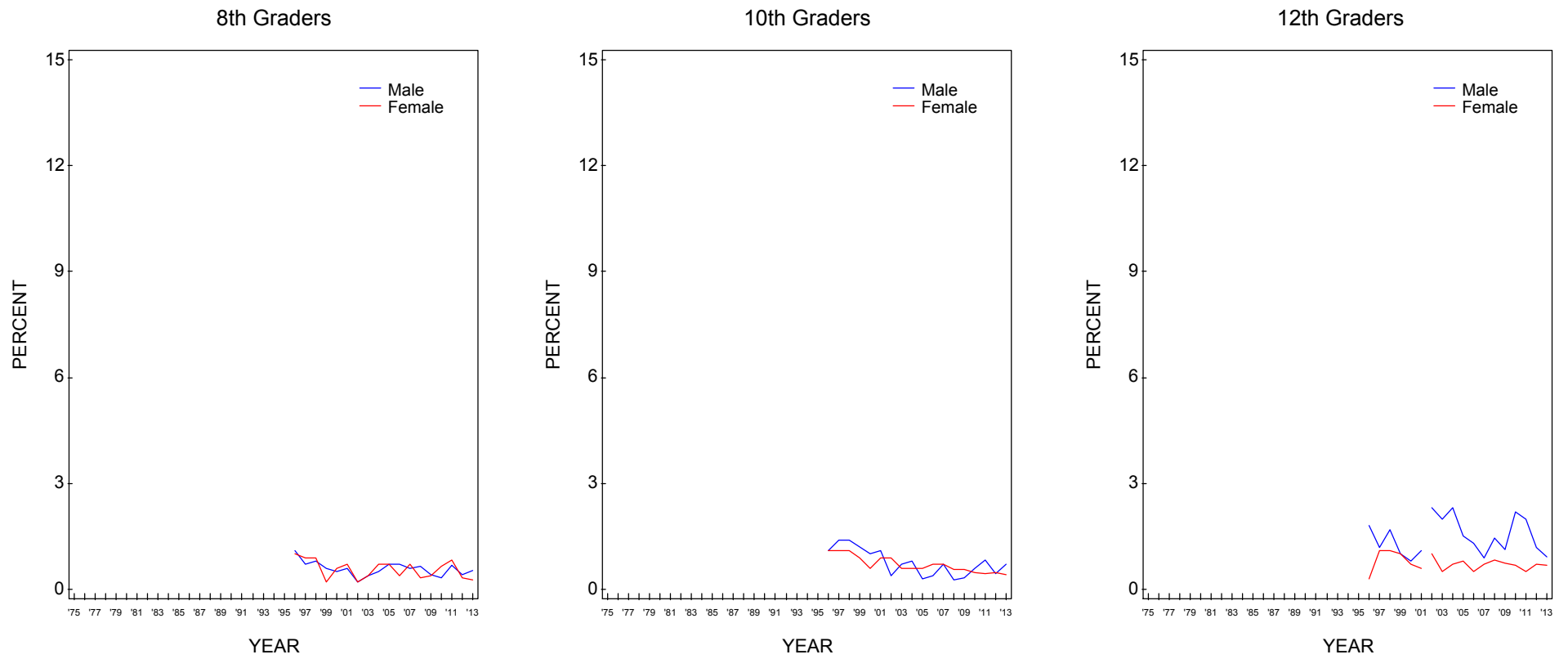
**FIGURE 192**  
**Over-the-Counter Cough/Cold Medicines: Trends in Annual Prevalence by Race/Ethnicity\***



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

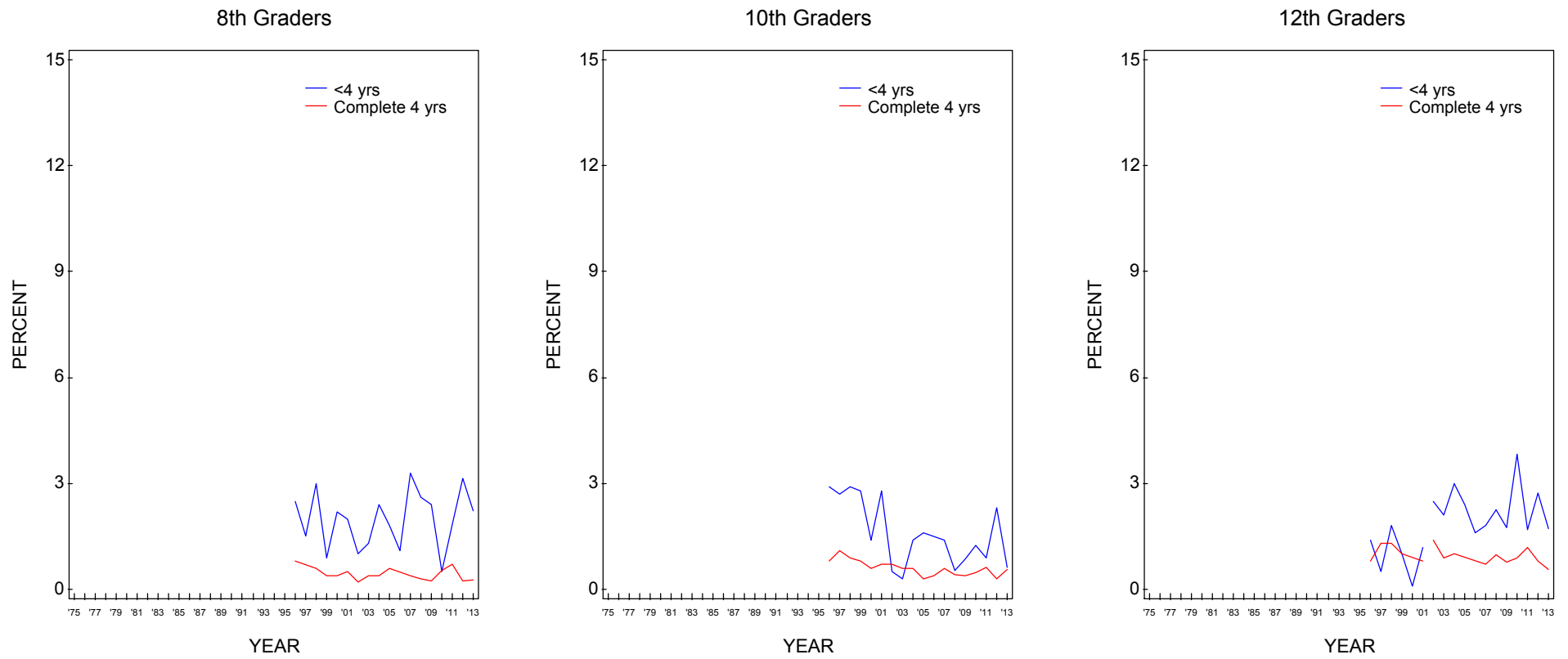
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 193**  
**Rohypnol:\* Trends in Annual Prevalence by Gender**



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

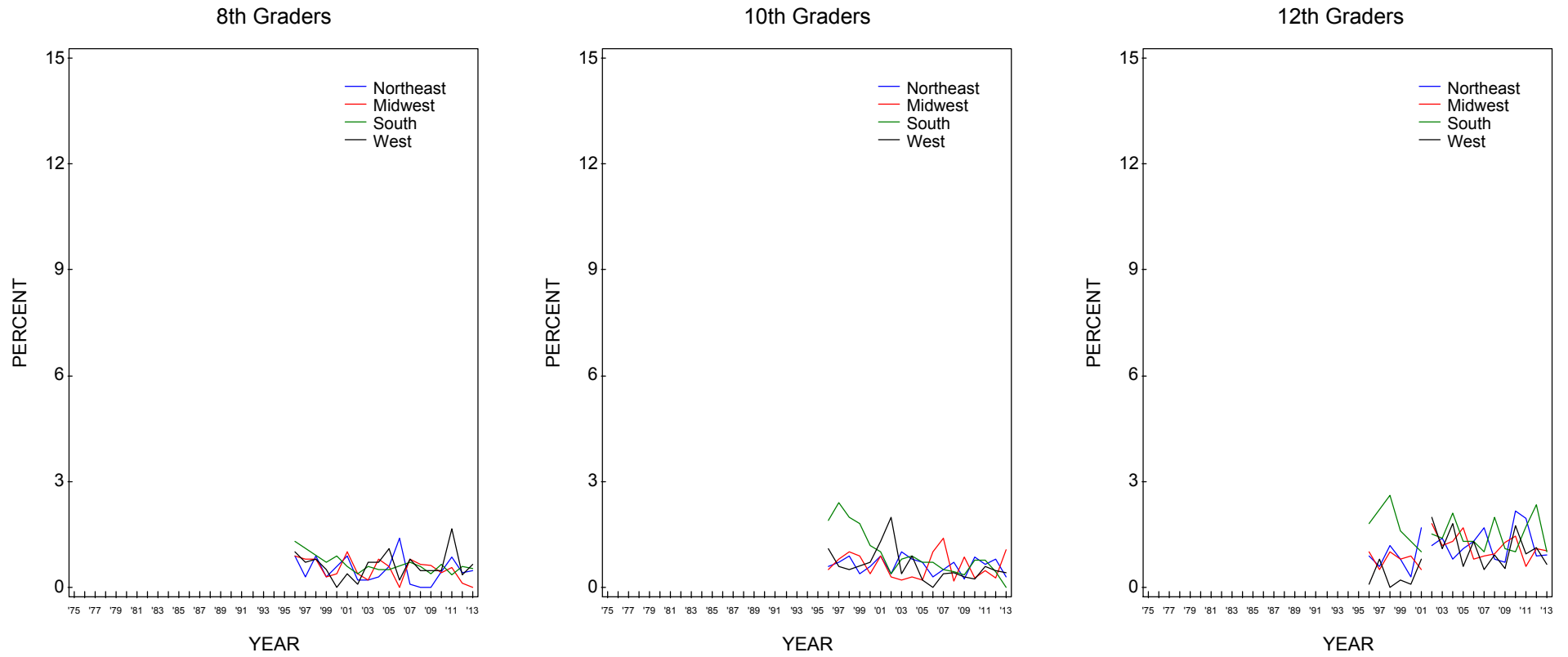
**FIGURE 194**  
**Rohypnol:\* Trends in Annual Prevalence by College Plans**



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

\*Beginning in 2002, a revised set of questions on Rohypnol use was introduced. Refer to corresponding tables for further details.

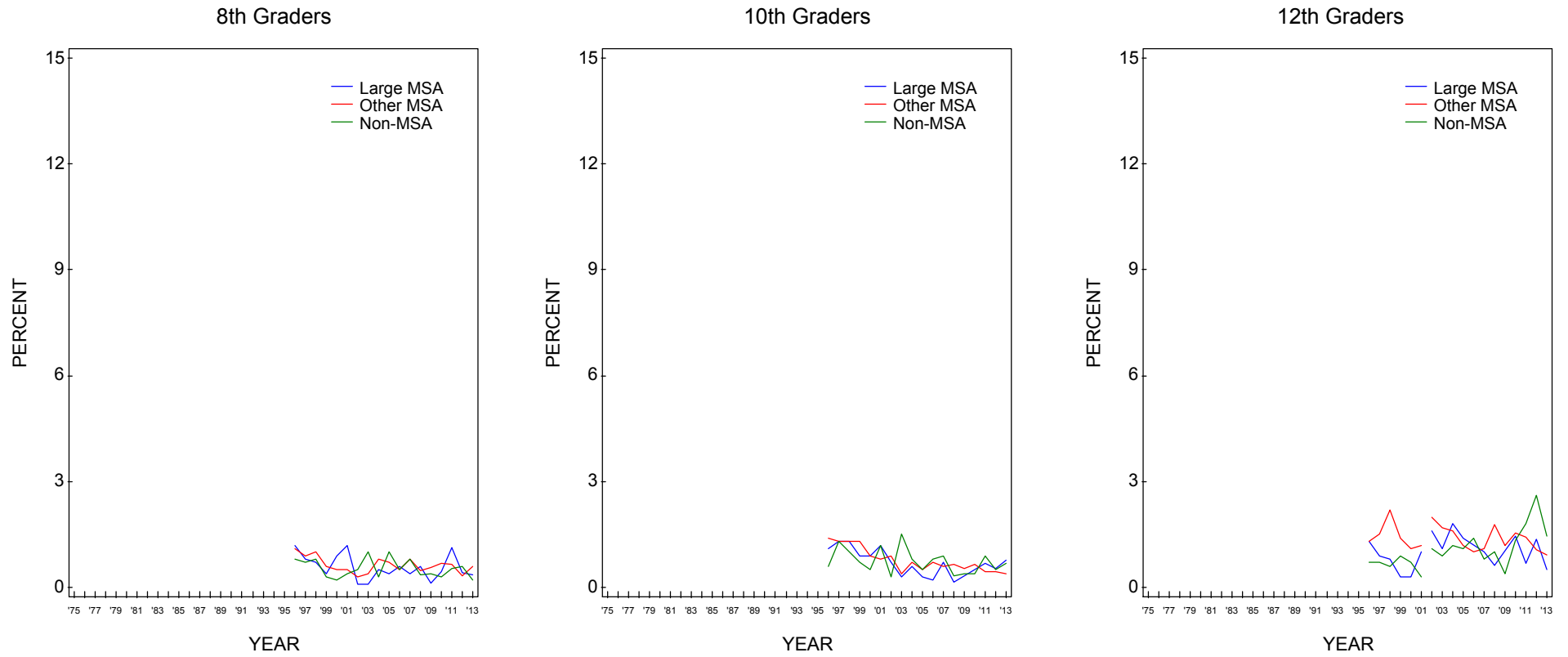
**FIGURE 195**  
**Rohypnol:\* Trends in Annual Prevalence by Region**



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

\*Beginning in 2002, a revised set of questions on Rohypnol use was introduced. Refer to corresponding tables for further details.

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

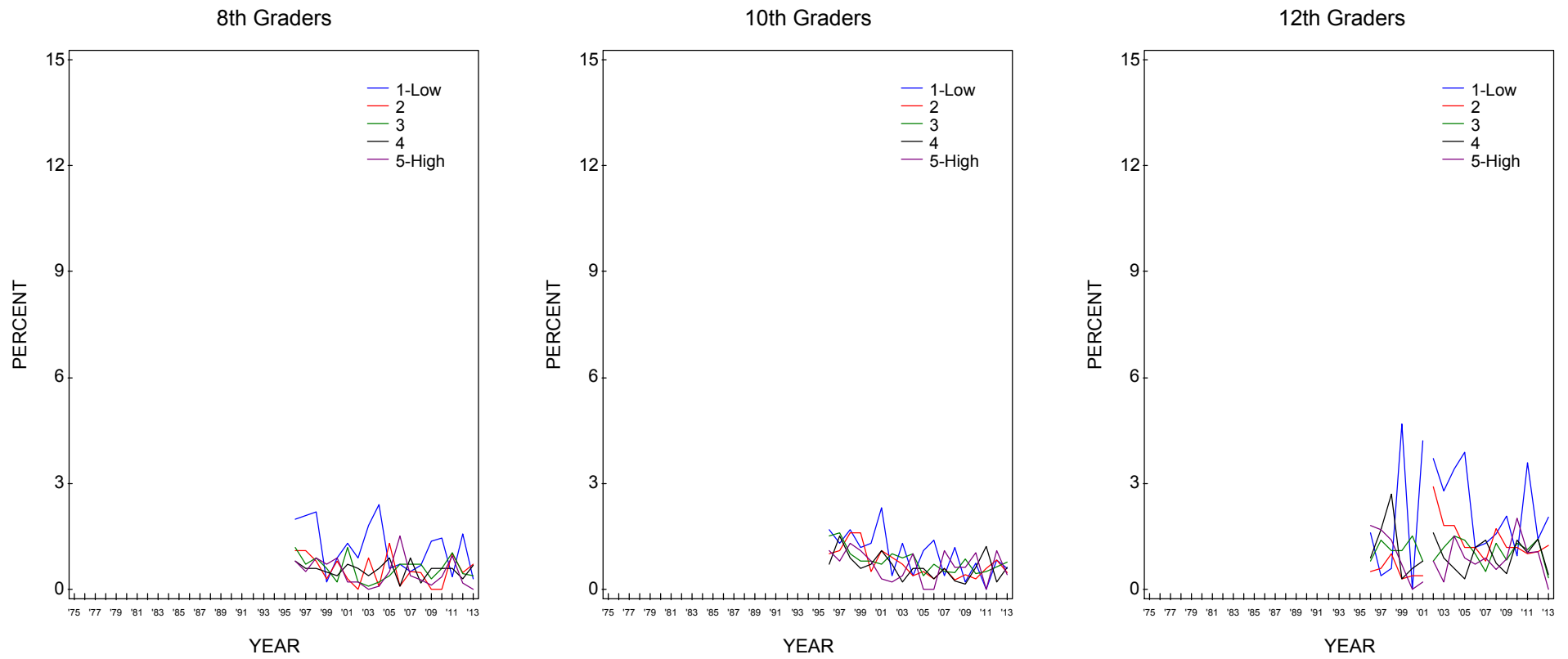


Source. The Monitoring the Future study, the University of Michigan.

\*Beginning in 2002, a revised set of questions on Rohypnol use was introduced. Refer to corresponding tables for further details.



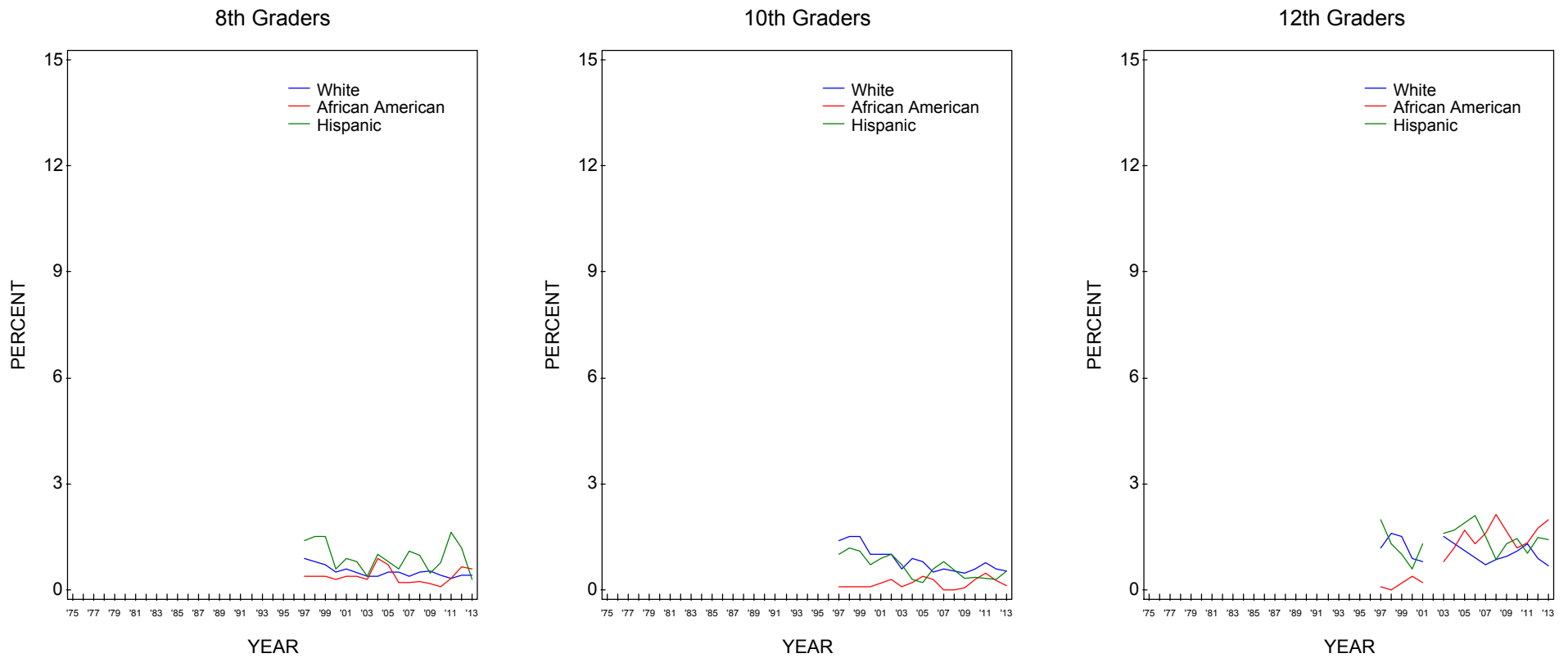
**FIGURE 197**  
**Rohypnol:\* Trends in Annual Prevalence by Average Education Level of Parents**



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

\*Beginning in 2002, a revised set of questions on Rohypnol use was introduced. Refer to corresponding tables for further details.

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

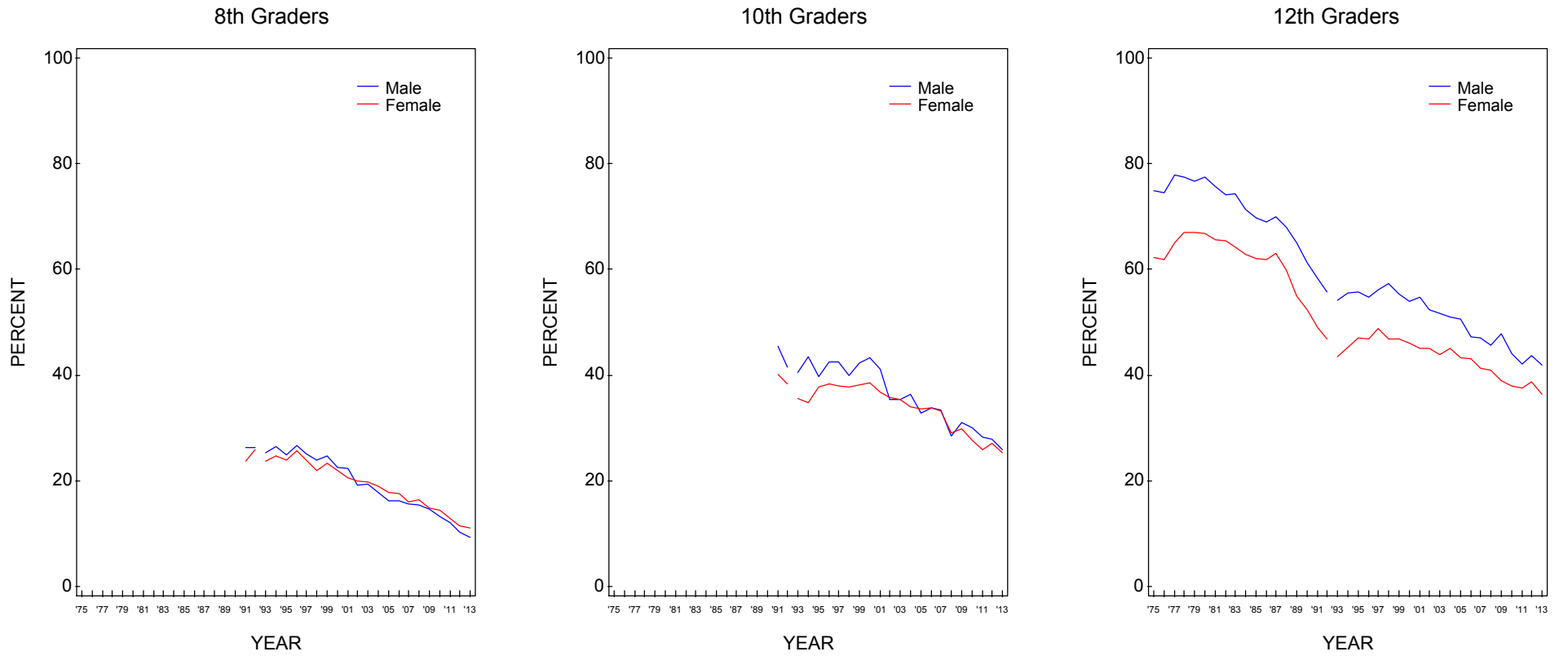


Source. The Monitoring the Future study, the University of Michigan.

\*Beginning in 2002, a revised set of questions on Rohypnol use was introduced. Refer to corresponding tables for further details.

\*\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

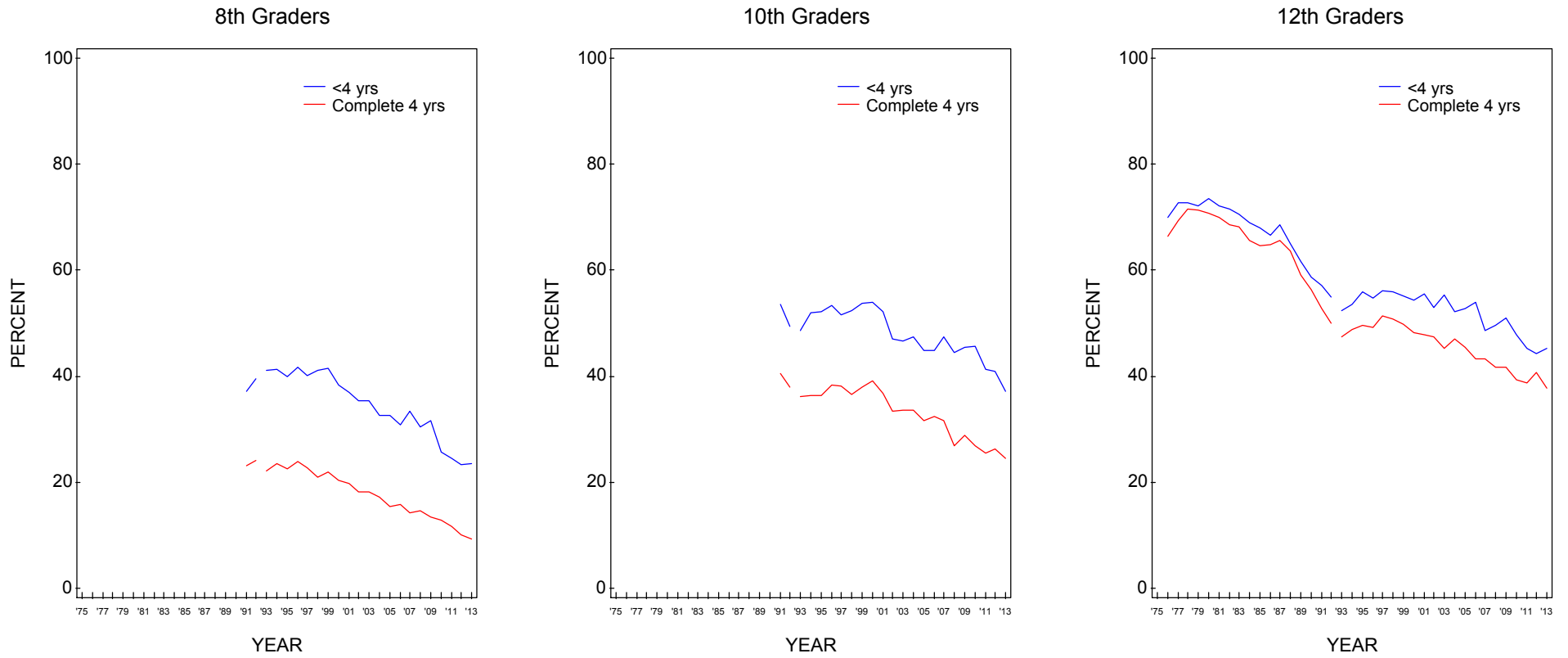
**FIGURE 199**  
**Alcohol:\* Trends in 30-Day Prevalence by Gender**



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

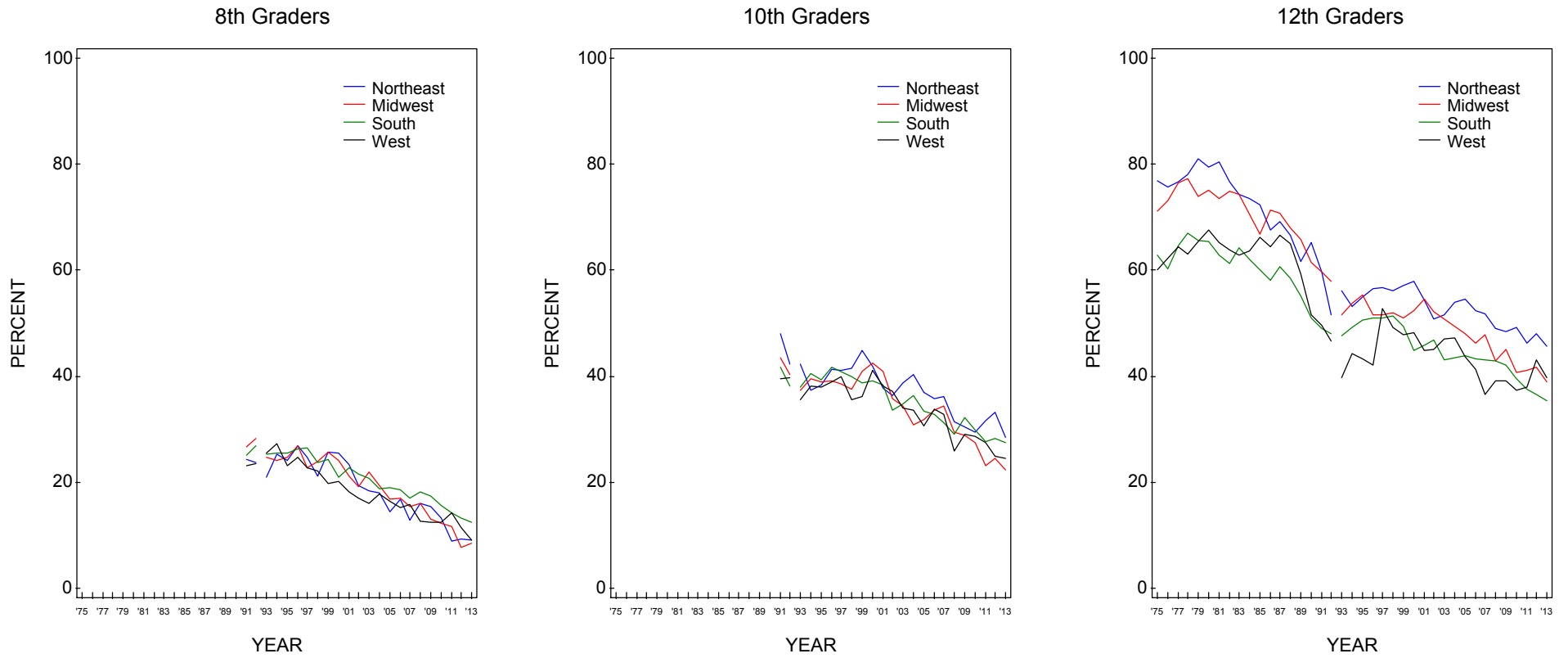
\*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.

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



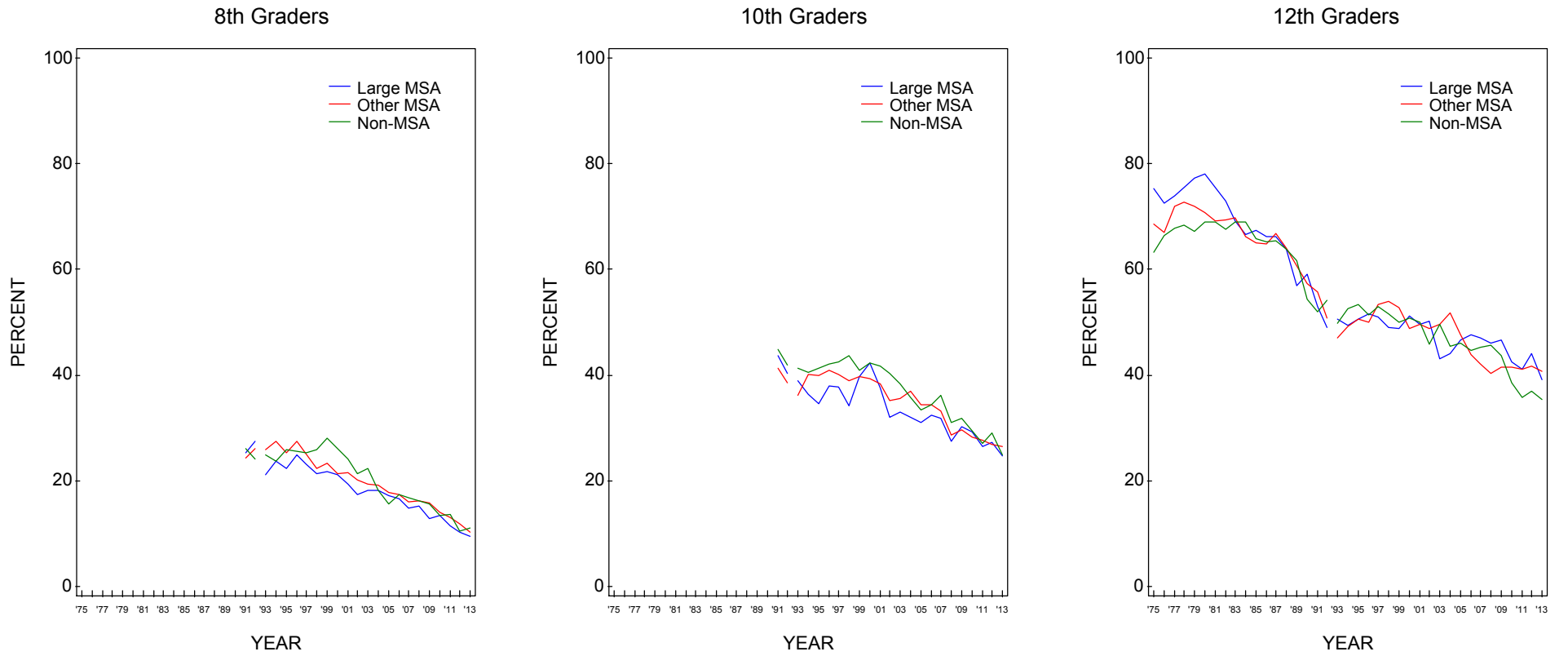
Source. The Monitoring the Future study, the University of Michigan.  
 \*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.

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



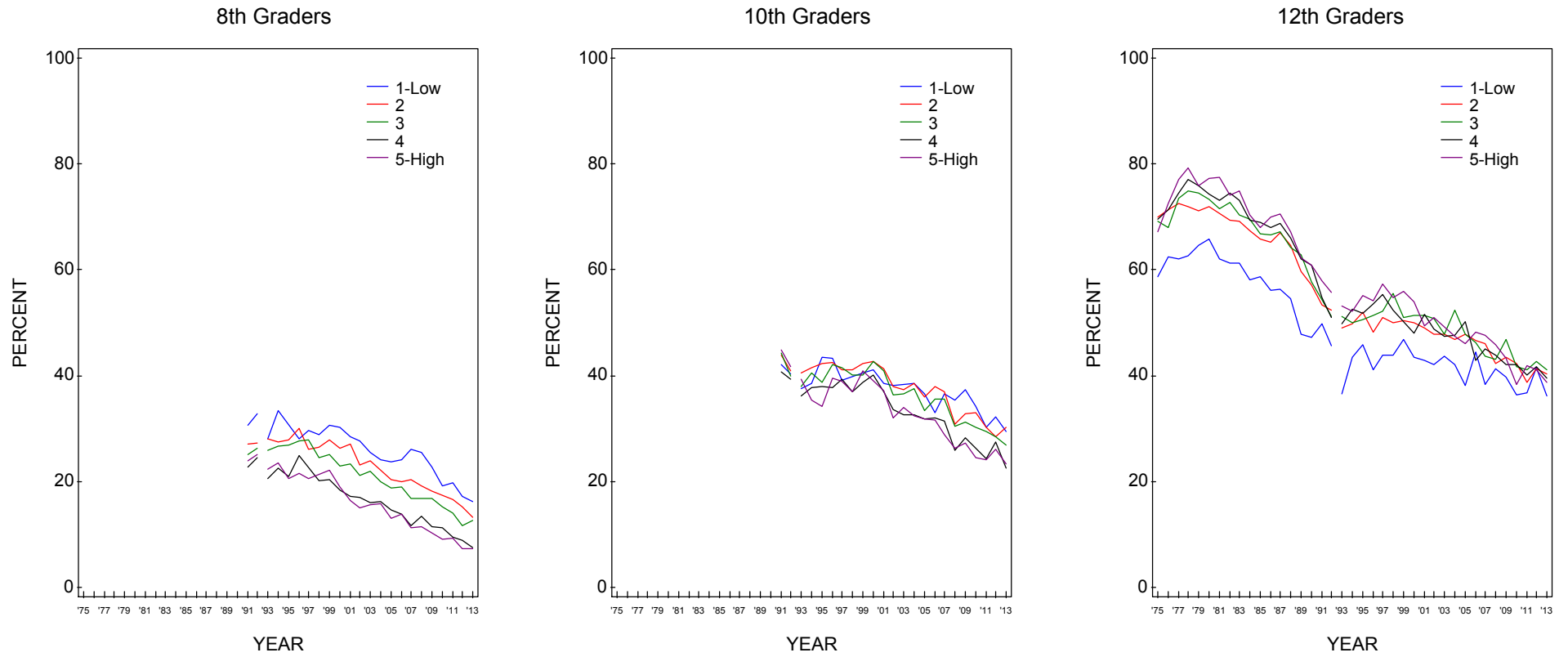
Source. The Monitoring the Future study, the University of Michigan.  
 \*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.

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



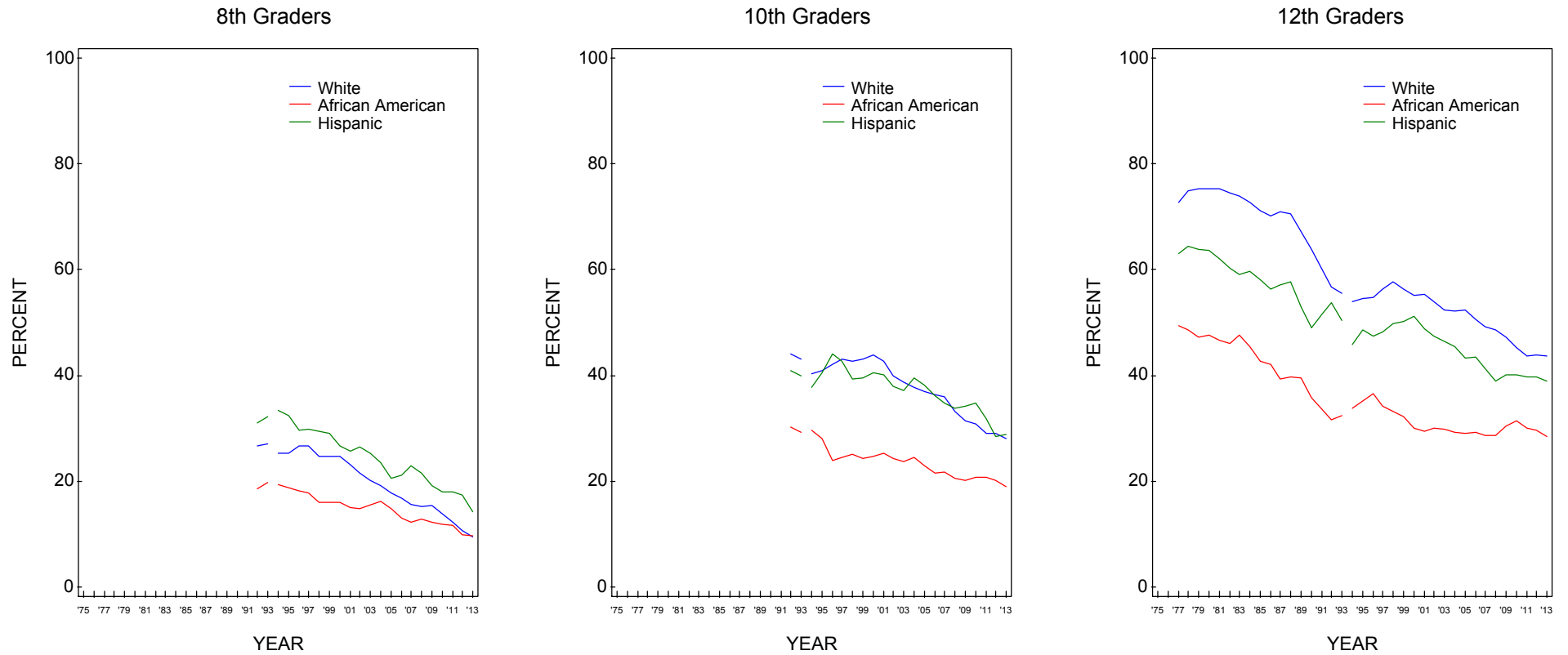
Source. The Monitoring the Future study, the University of Michigan.  
 \*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.

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



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

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



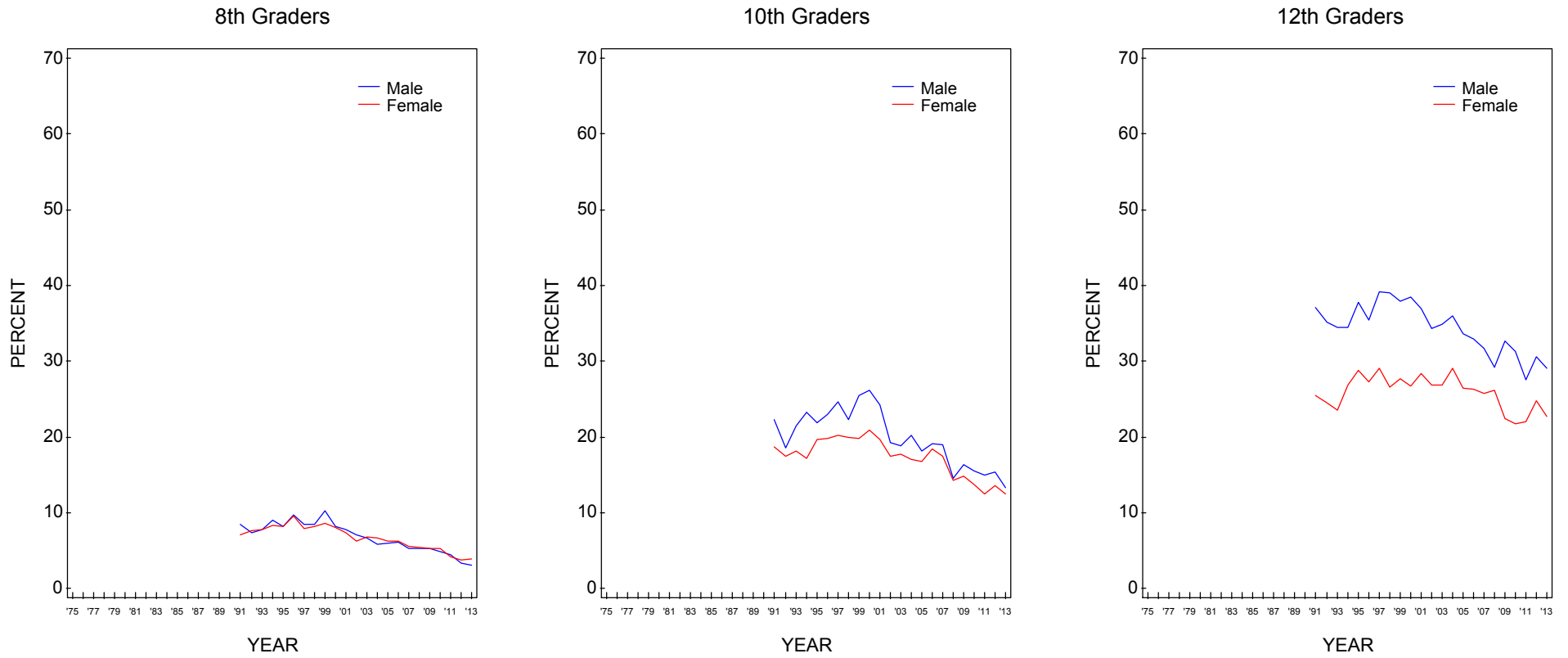
Source. The Monitoring the Future study, the University of Michigan.

\*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.

\*\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

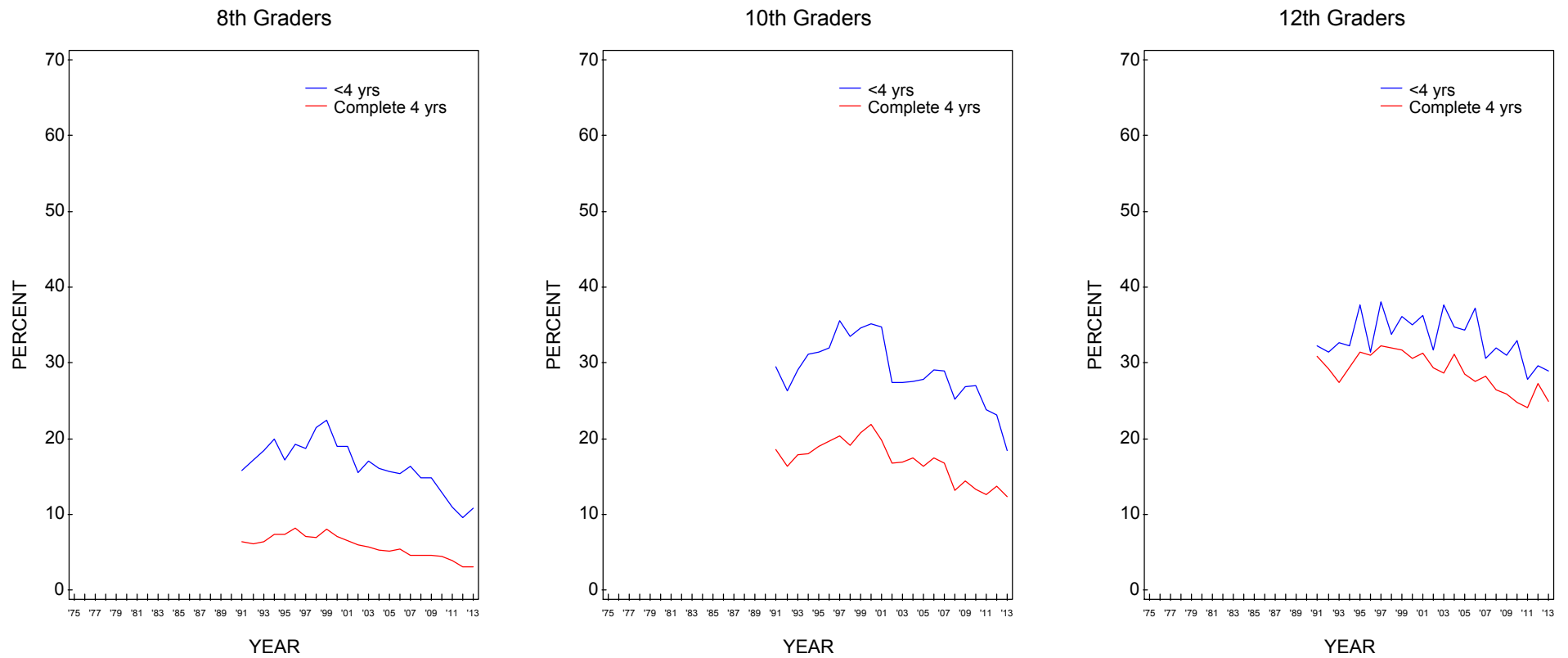


**FIGURE 205**  
**Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Gender**



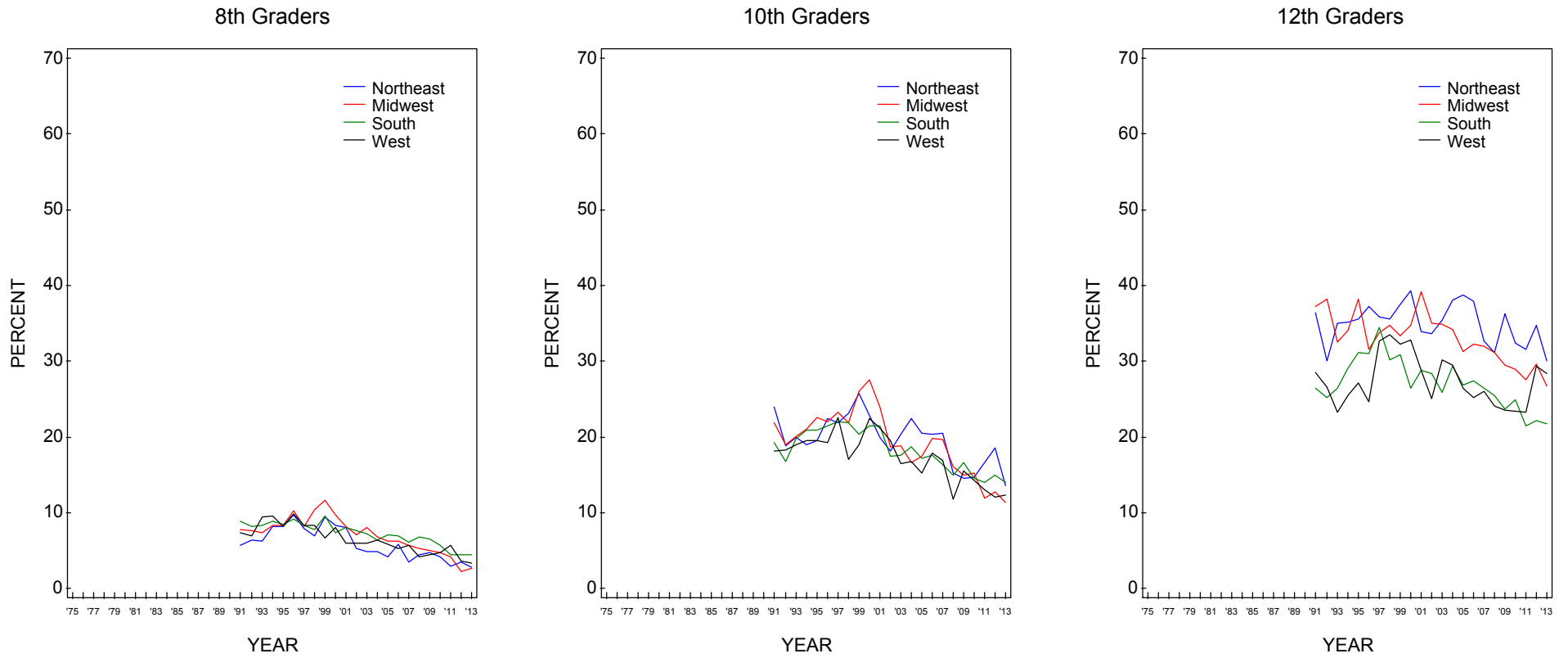
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 206**  
**Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by College Plans**



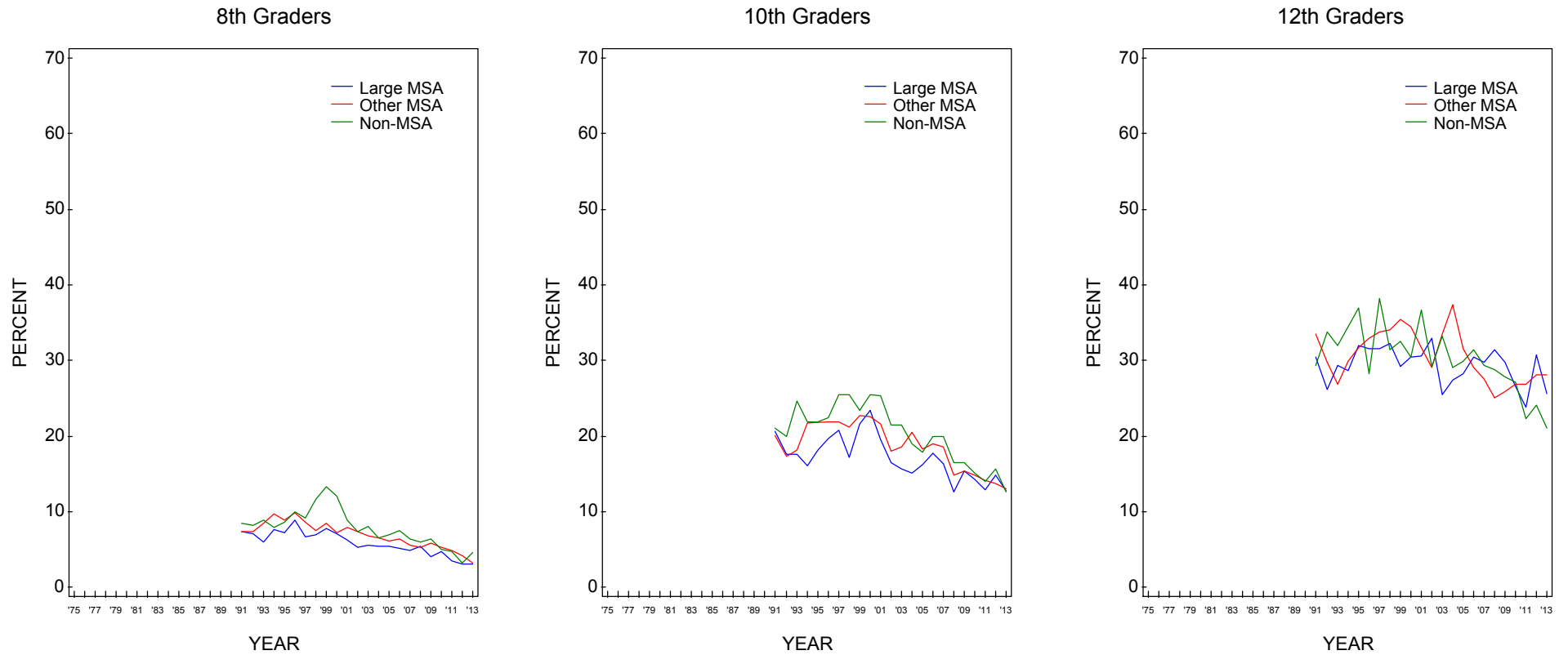
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 207**  
**Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Region**



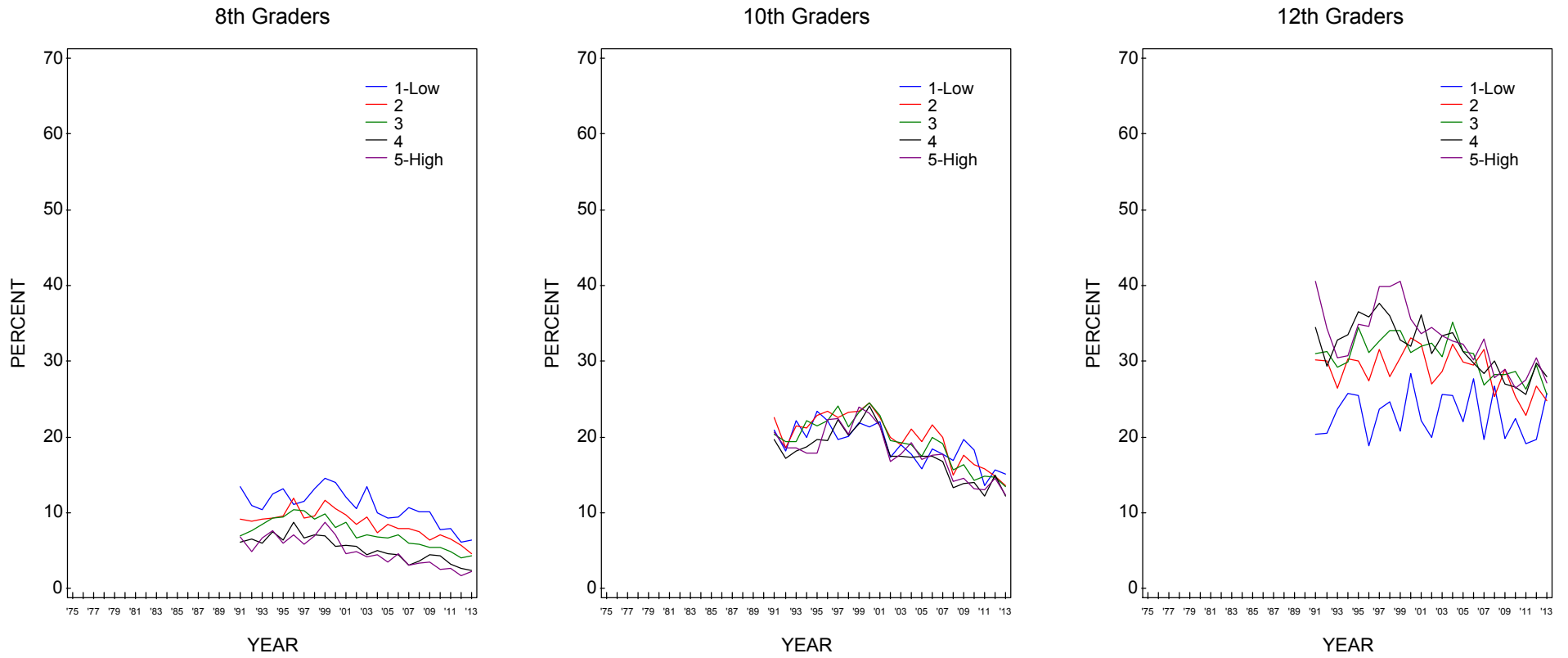
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 208**  
**Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Population Density**



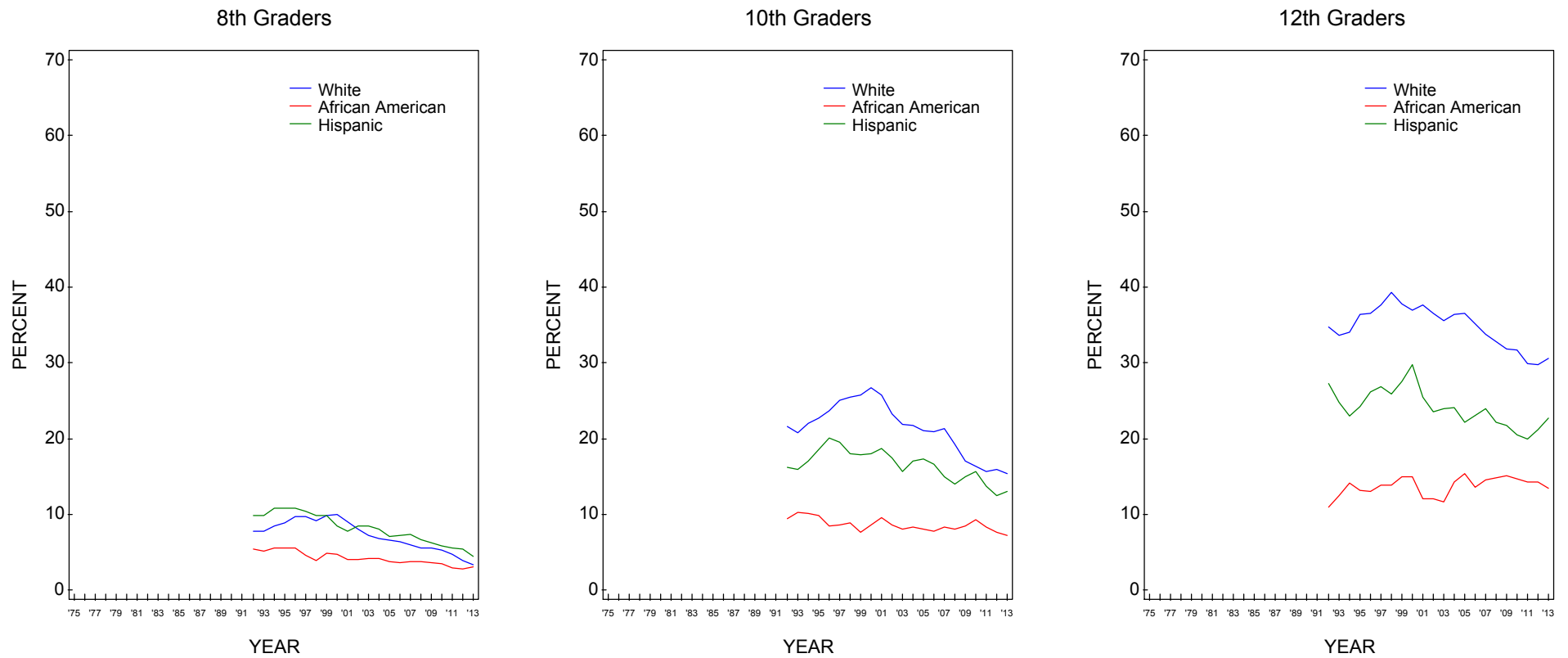
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 209**  
**Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Average Education Level of Parents**



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

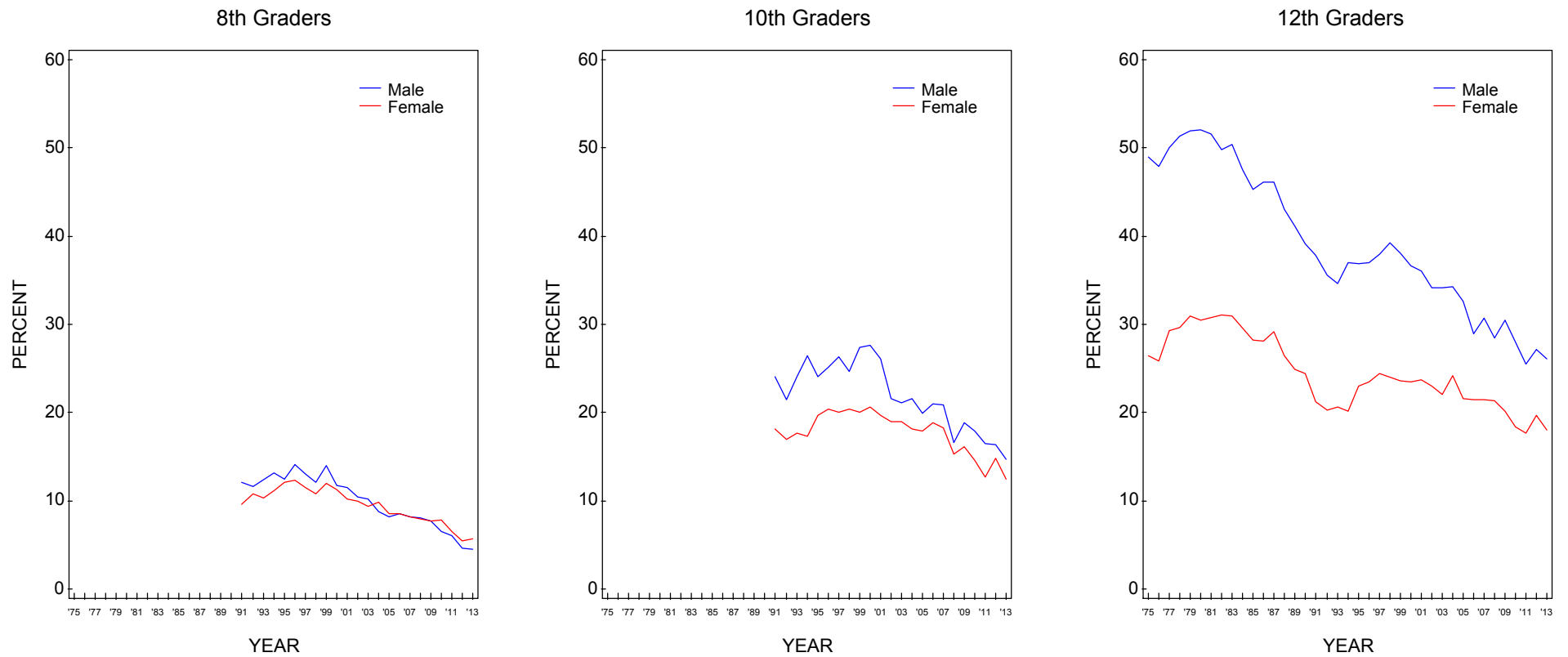
**FIGURE 210**  
**Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Race/Ethnicity\***



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

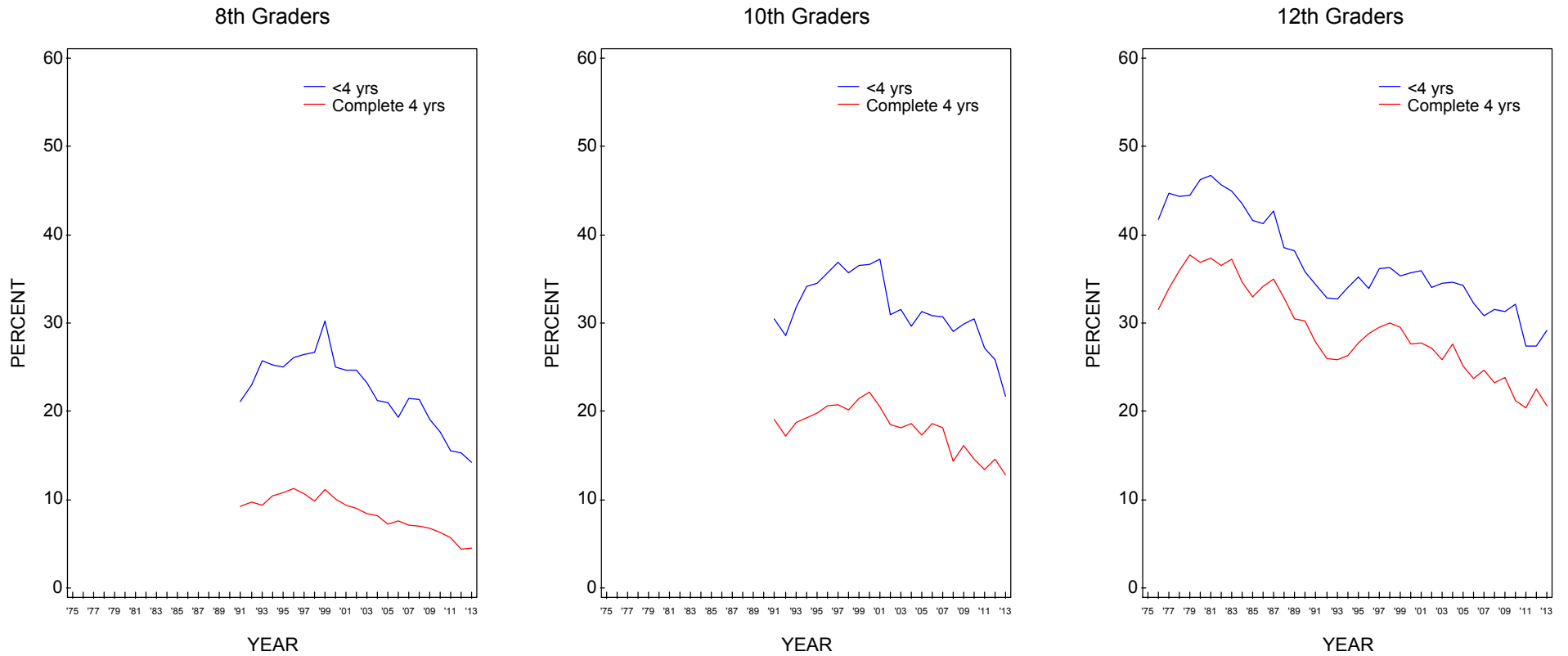
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 211**  
**Alcohol: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Gender**



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

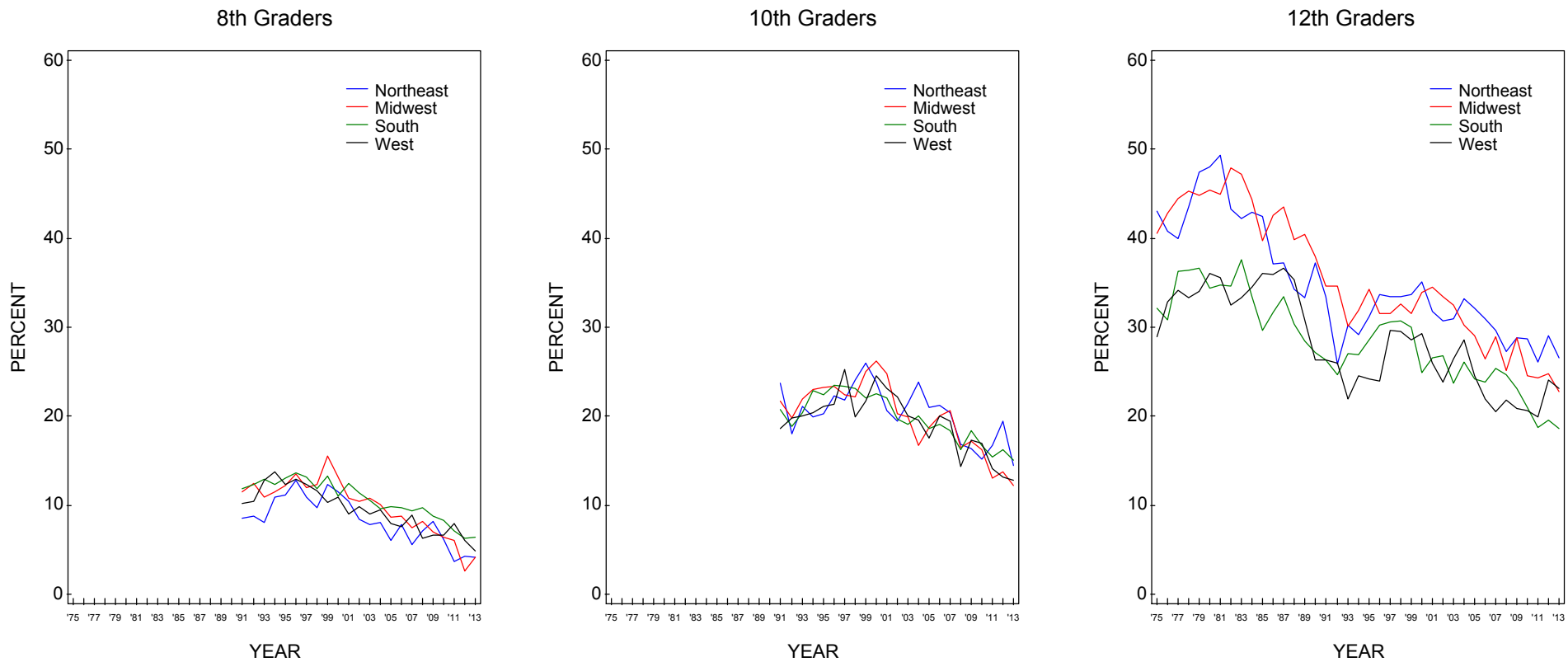
**FIGURE 212**  
**Alcohol: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by College Plans**



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

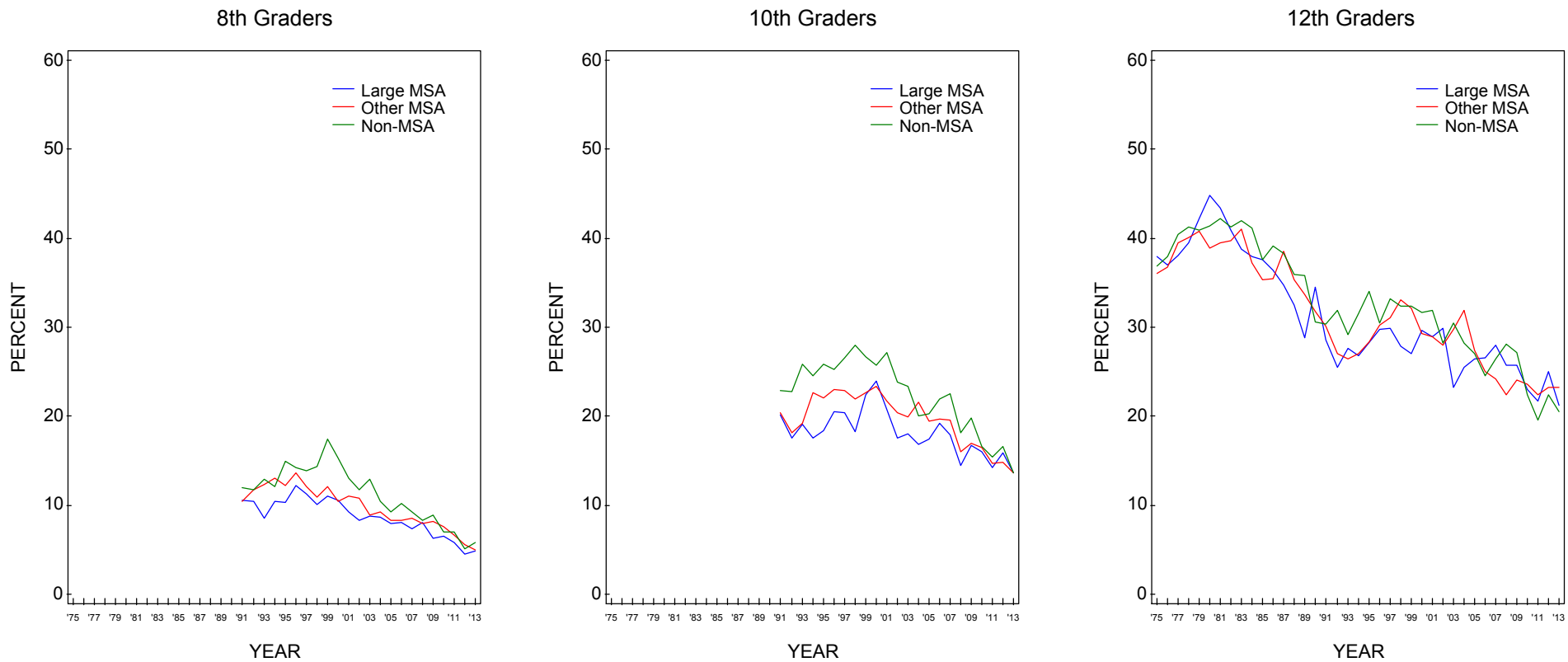


**FIGURE 213**  
**Alcohol: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Region**



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

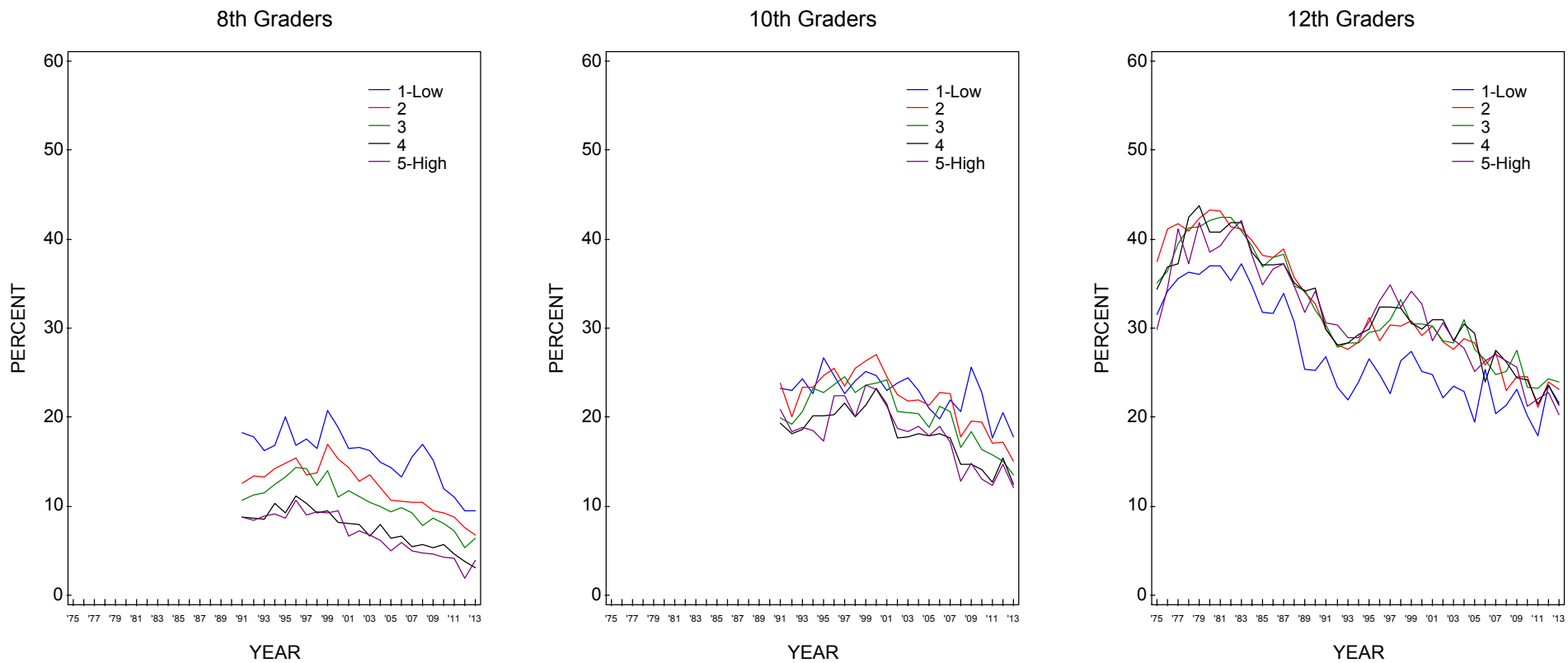
**FIGURE 214**  
**Alcohol: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Population Density**



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

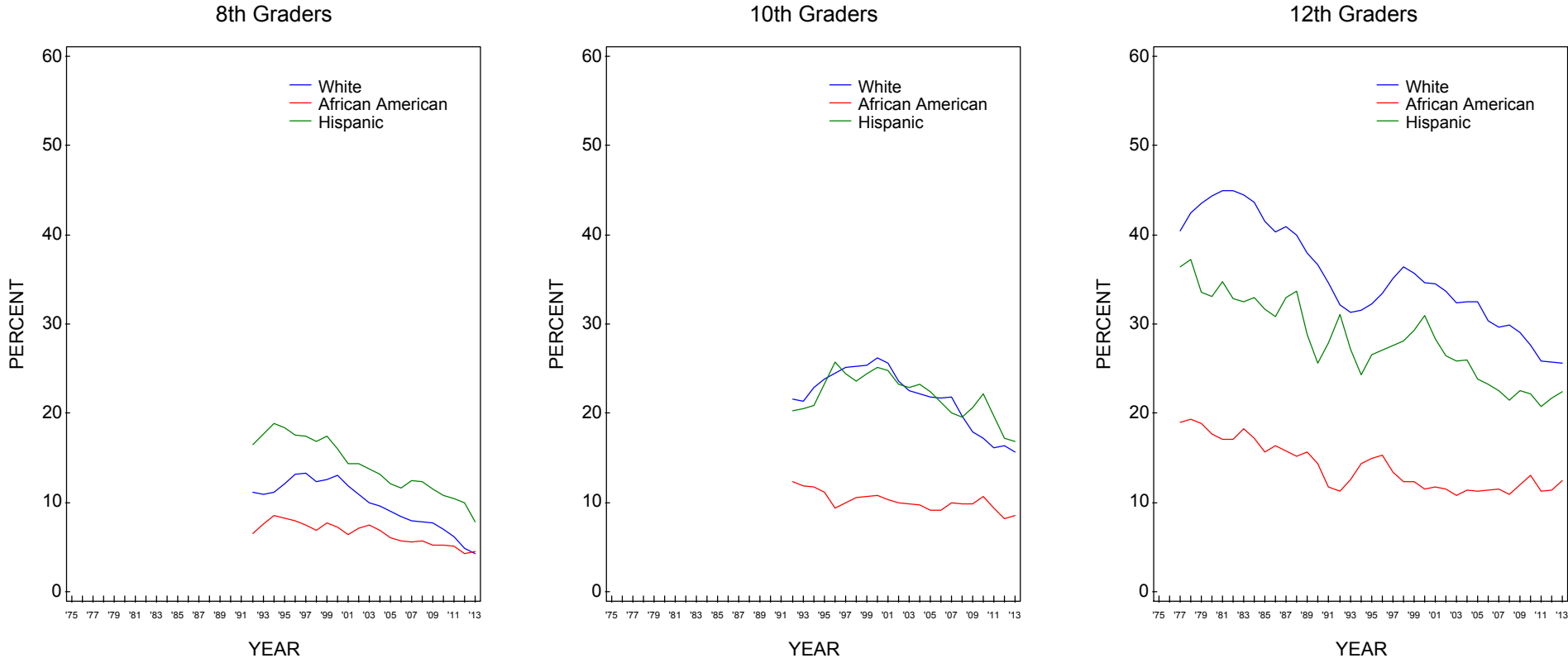
**FIGURE 215**

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



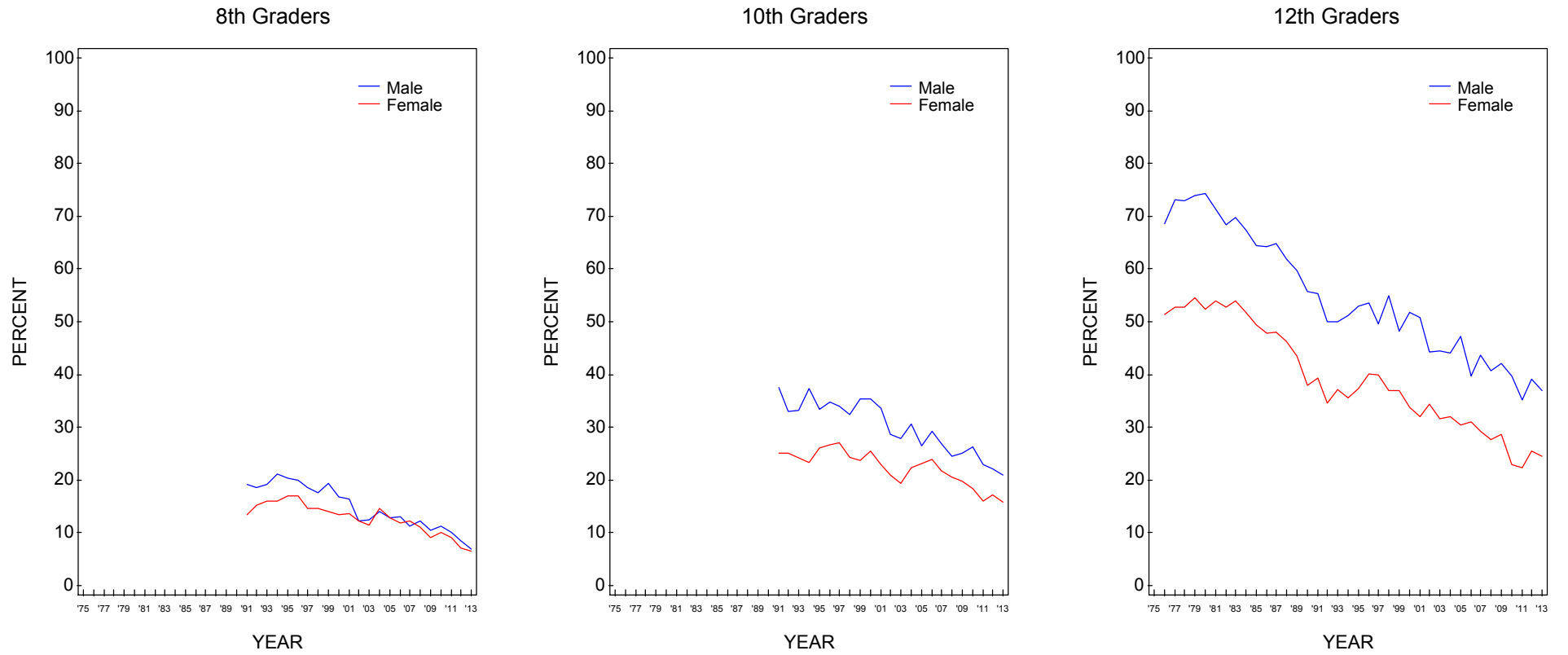
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 216**  
**Alcohol: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Race/Ethnicity\***



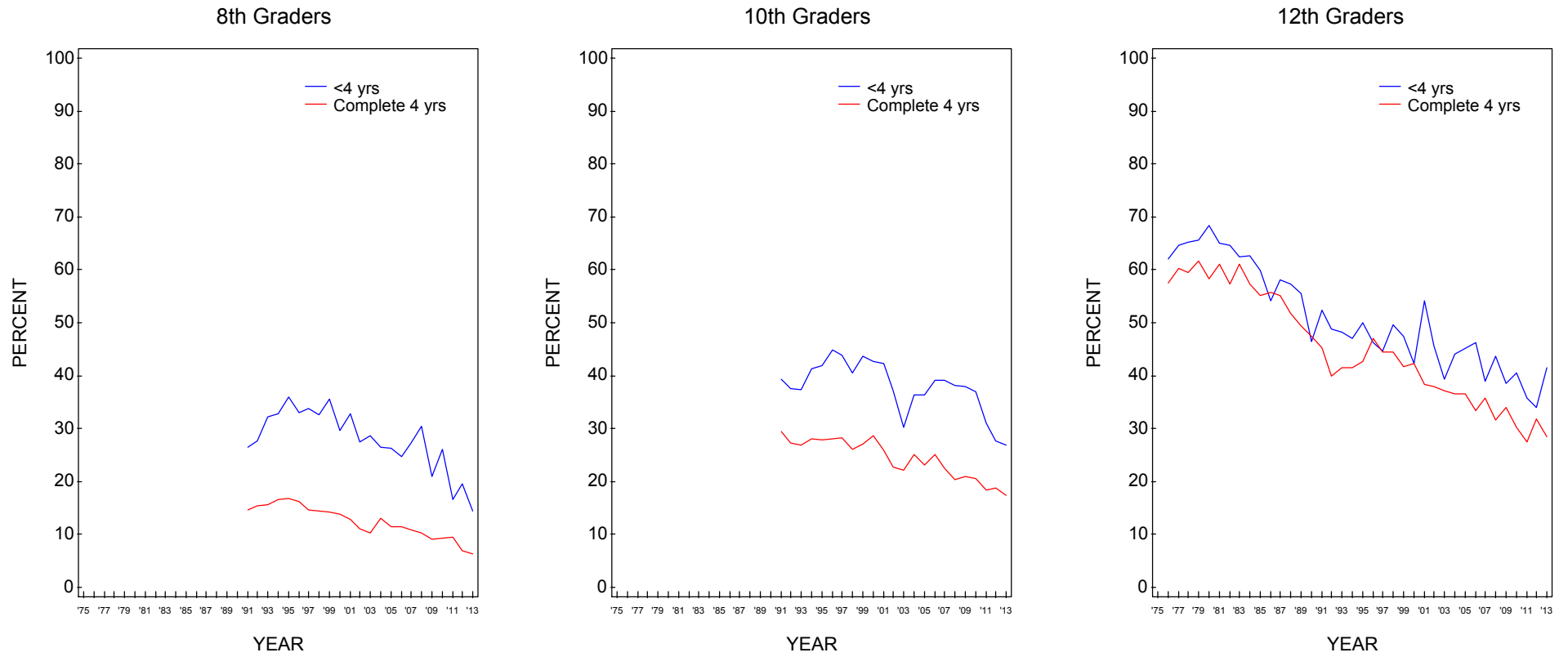
Source. The Monitoring the Future study, the University of Michigan.  
 \*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 217**  
**Beer: Trends in 30-Day Prevalence by Gender**



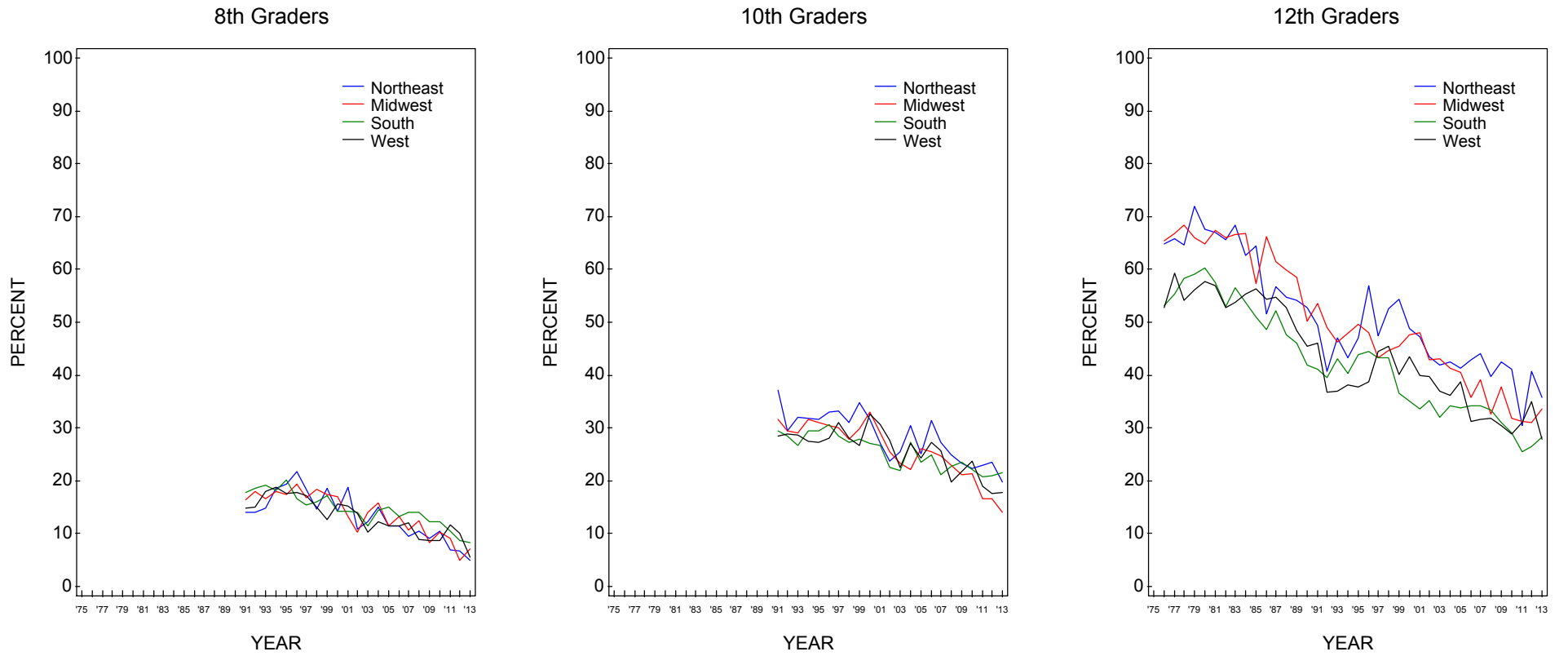
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 218**  
**Beer: Trends in 30-Day Prevalence by College Plans**



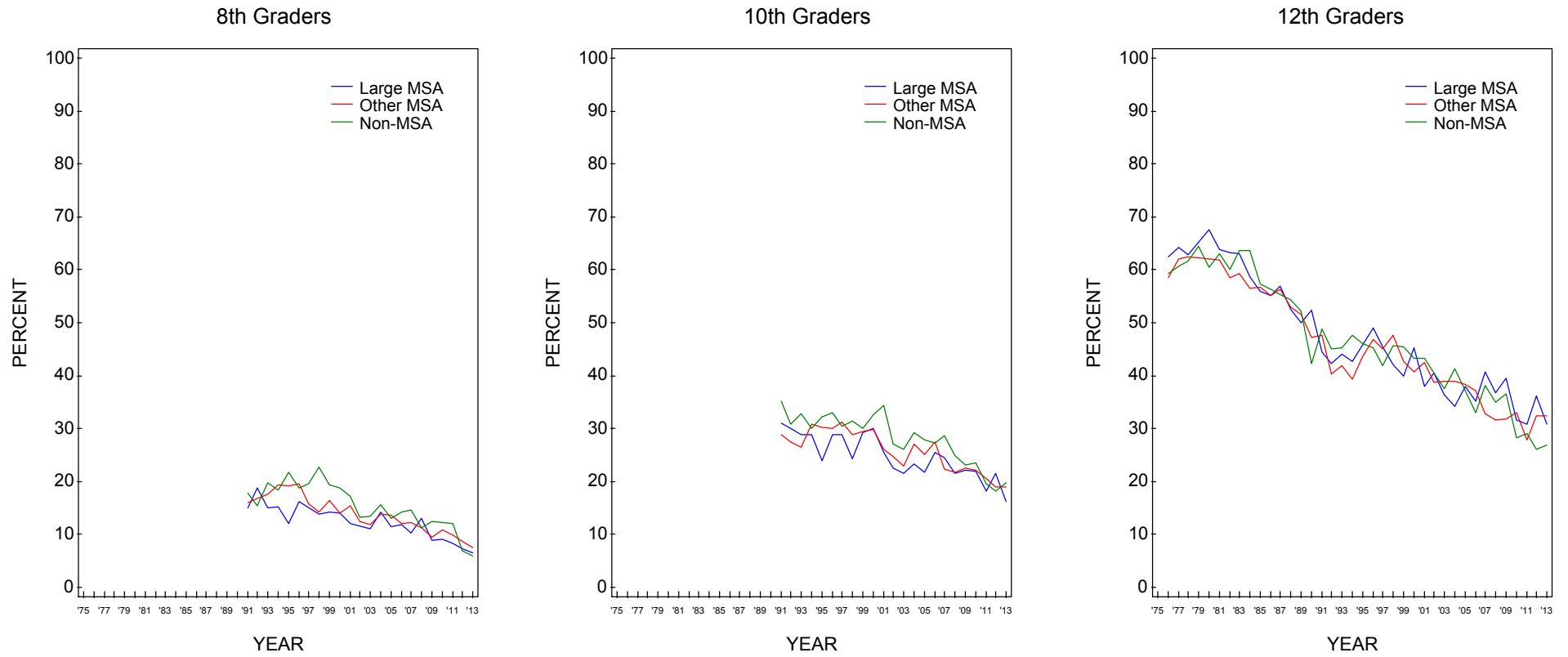
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 219**  
**Beer: Trends in 30-Day Prevalence by Region**



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

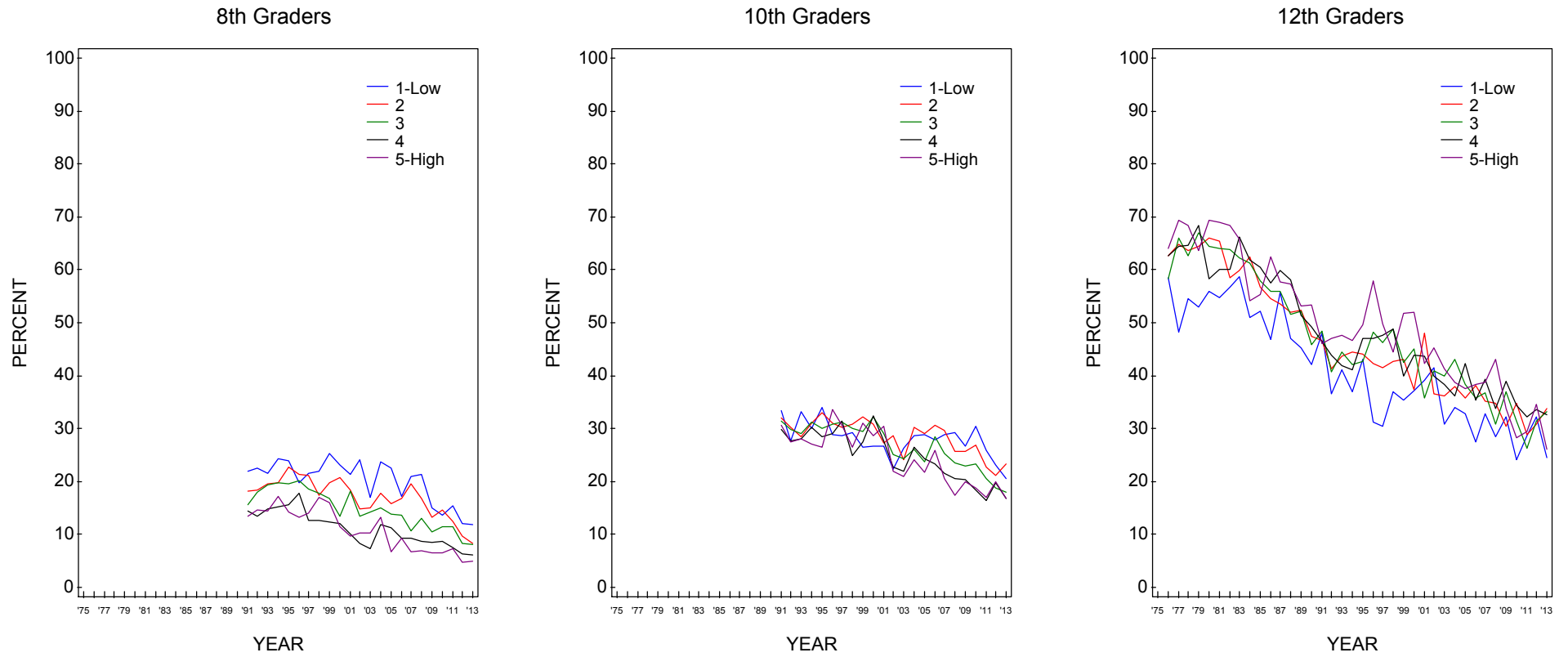
**FIGURE 220**  
**Beer: Trends in 30-Day Prevalence by Population Density**



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

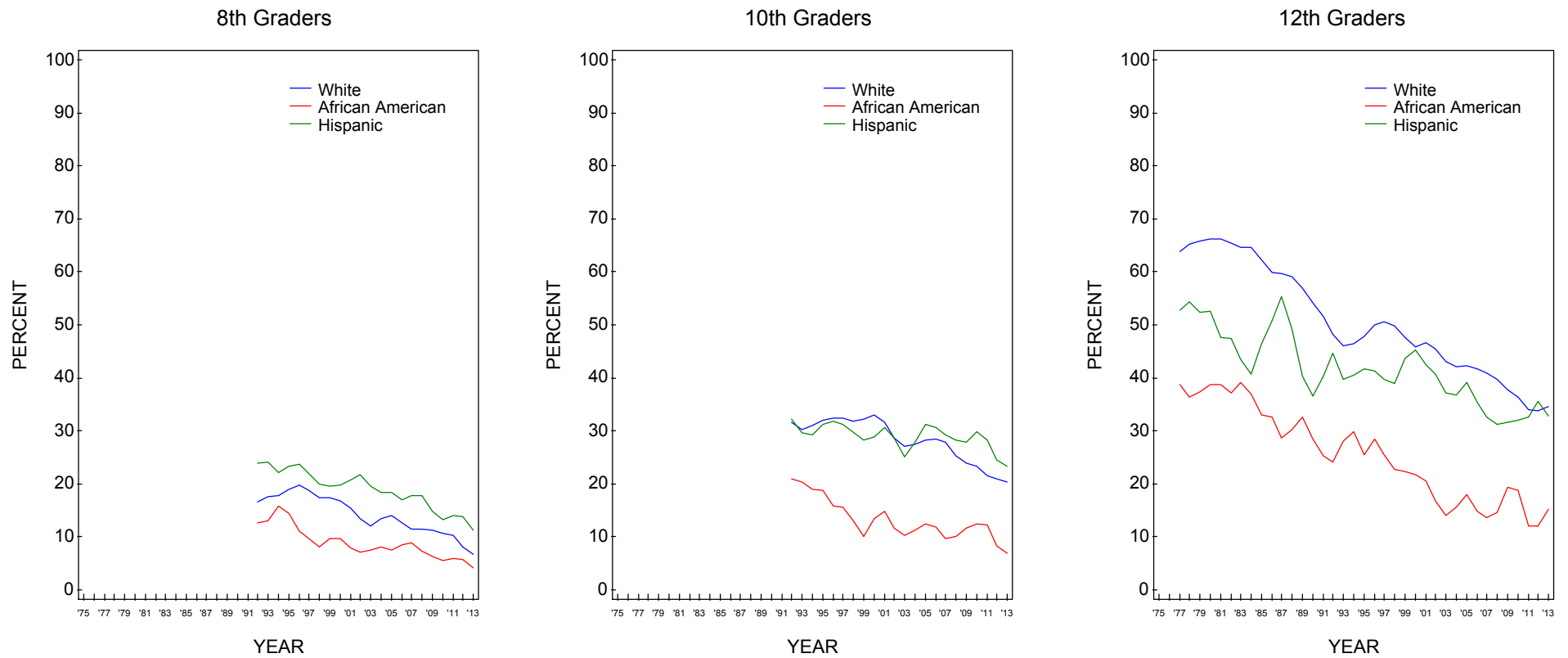


**FIGURE 221**  
**Beer: Trends in 30-Day Prevalence by Average Education Level of Parents**



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

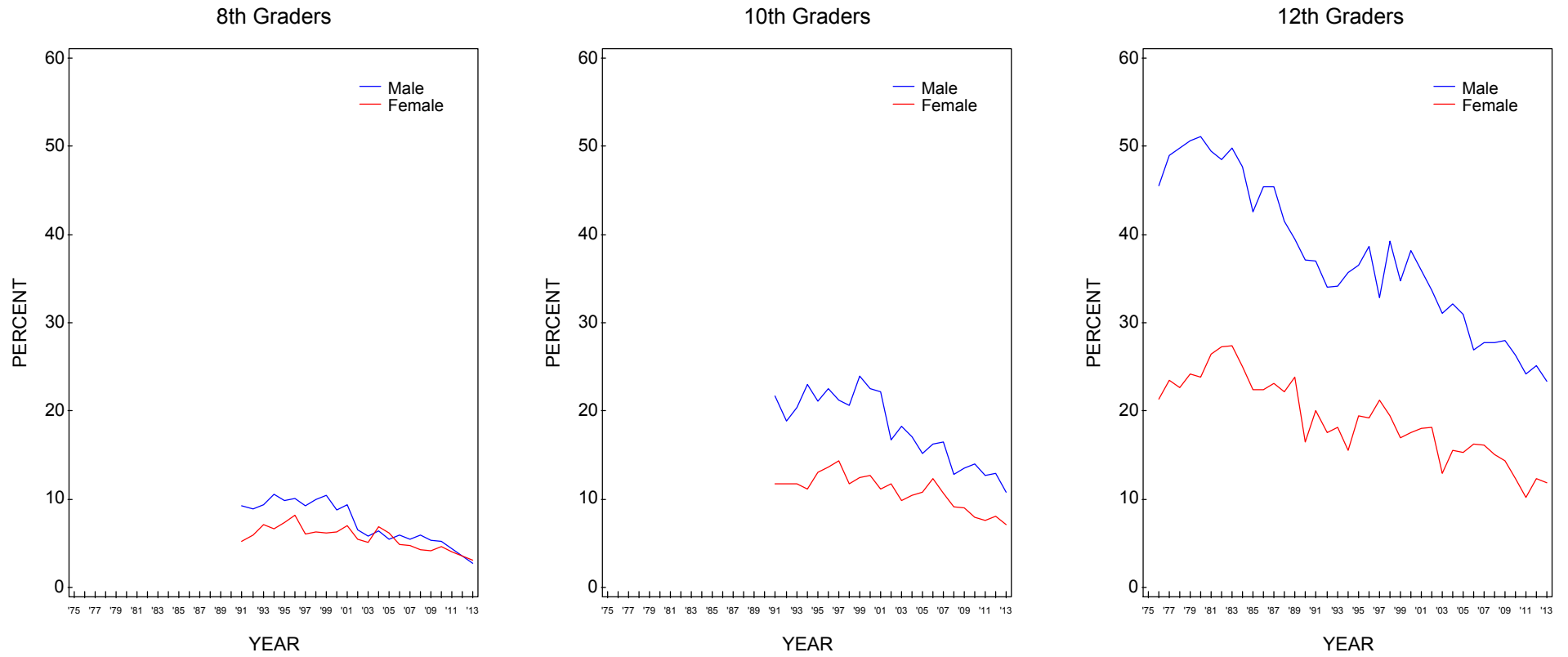
**FIGURE 222**  
**Beer: Trends in 30-Day Prevalence by Race/Ethnicity\***



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

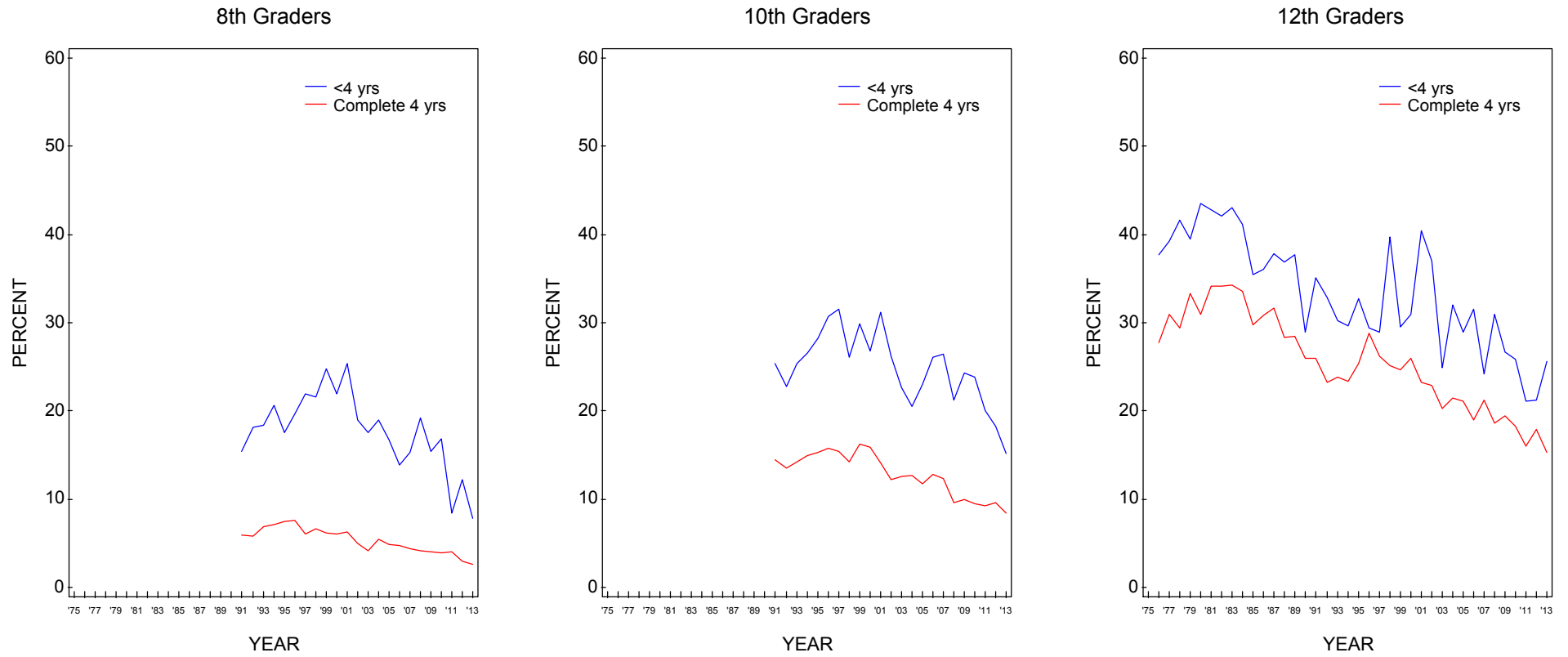
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 223**  
**Beer: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Gender**



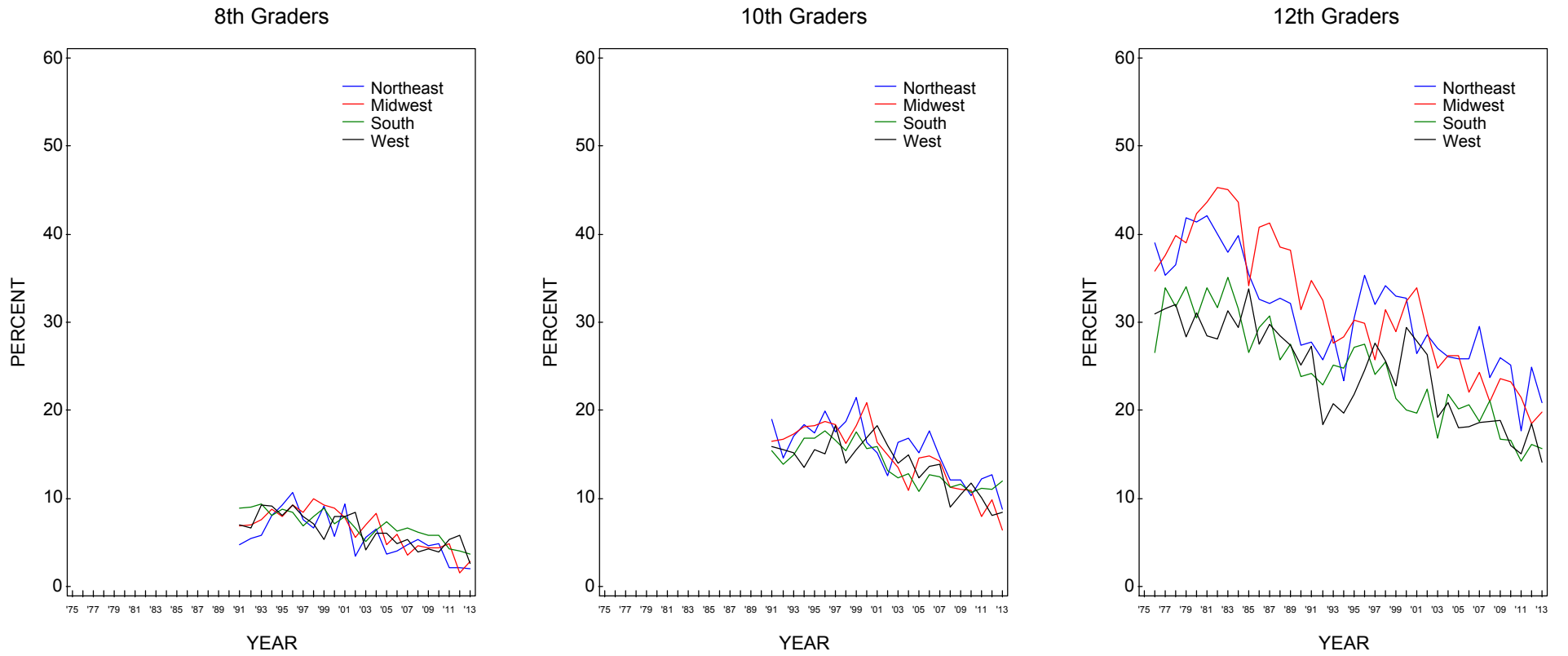
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 224**  
**Beer: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by College Plans**



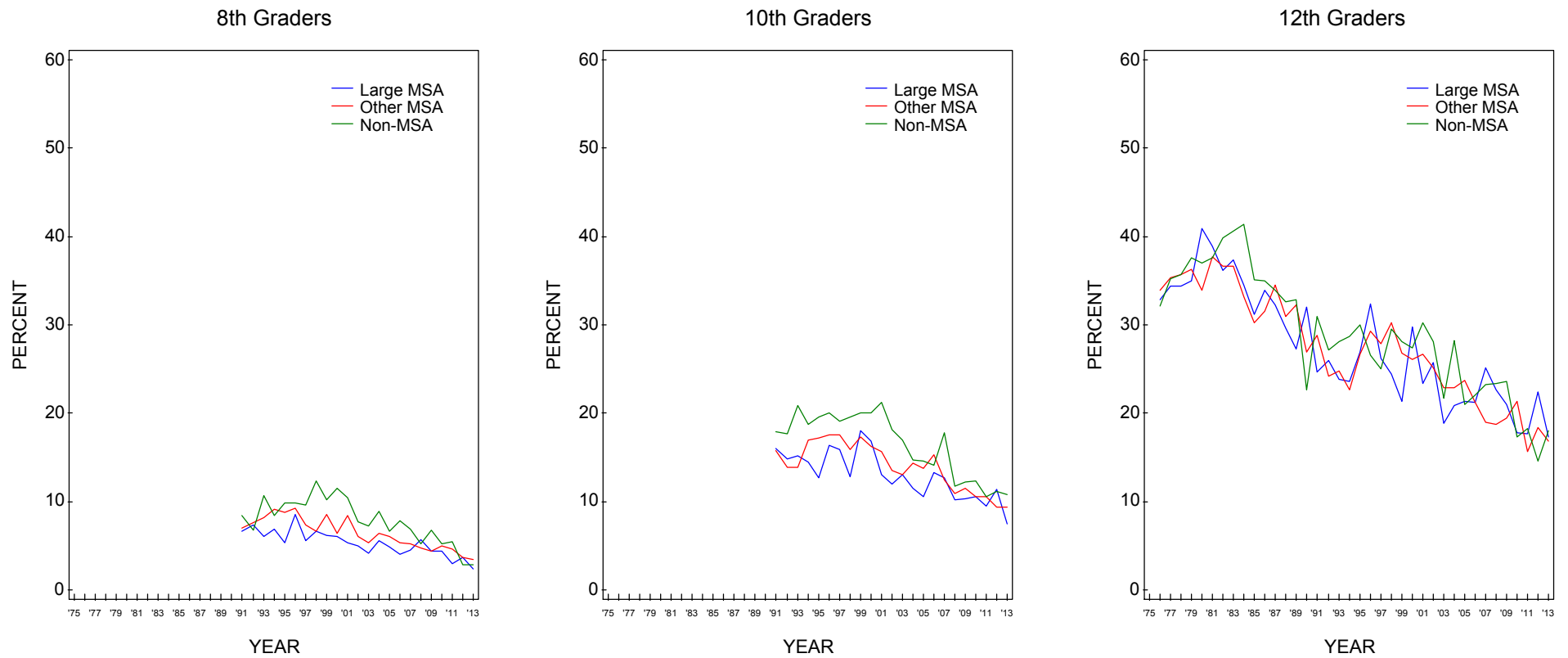
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 225**  
**Beer: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Region**



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

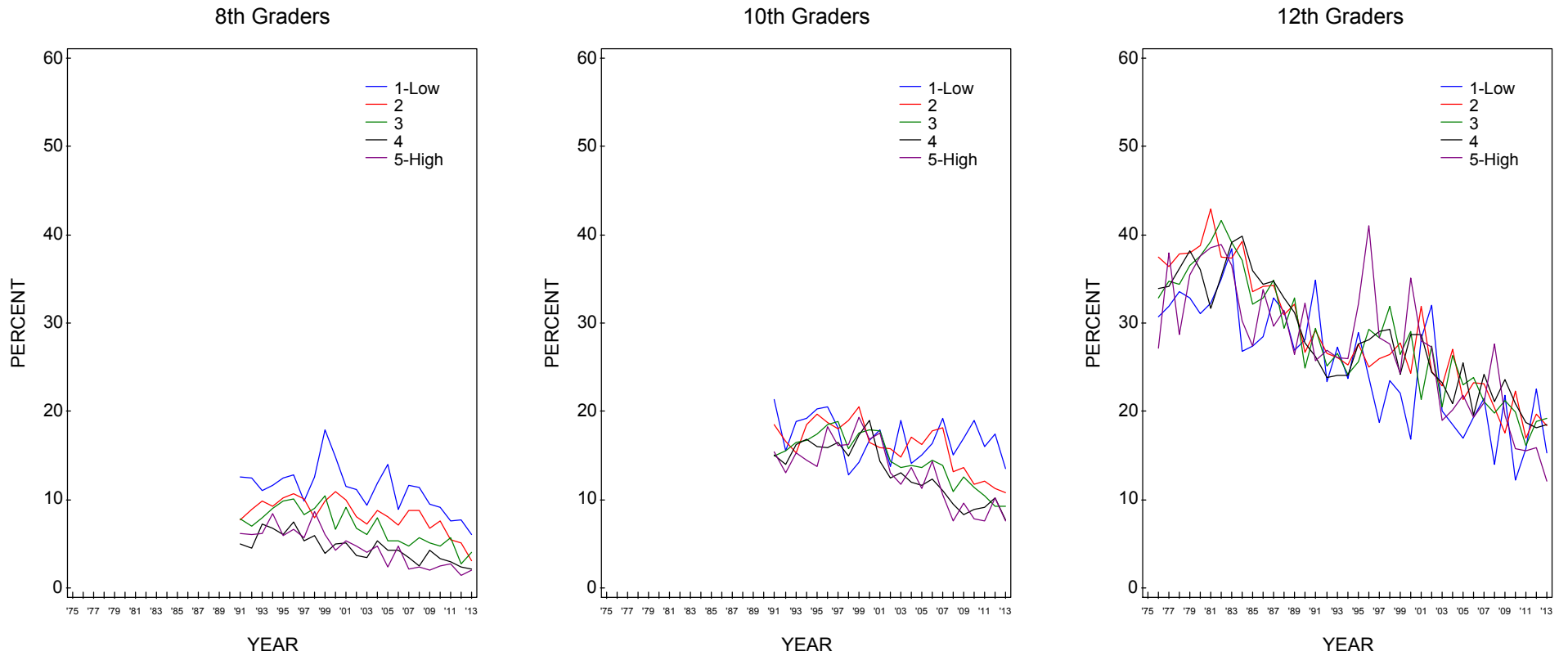
**FIGURE 226**  
**Beer: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Population Density**



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

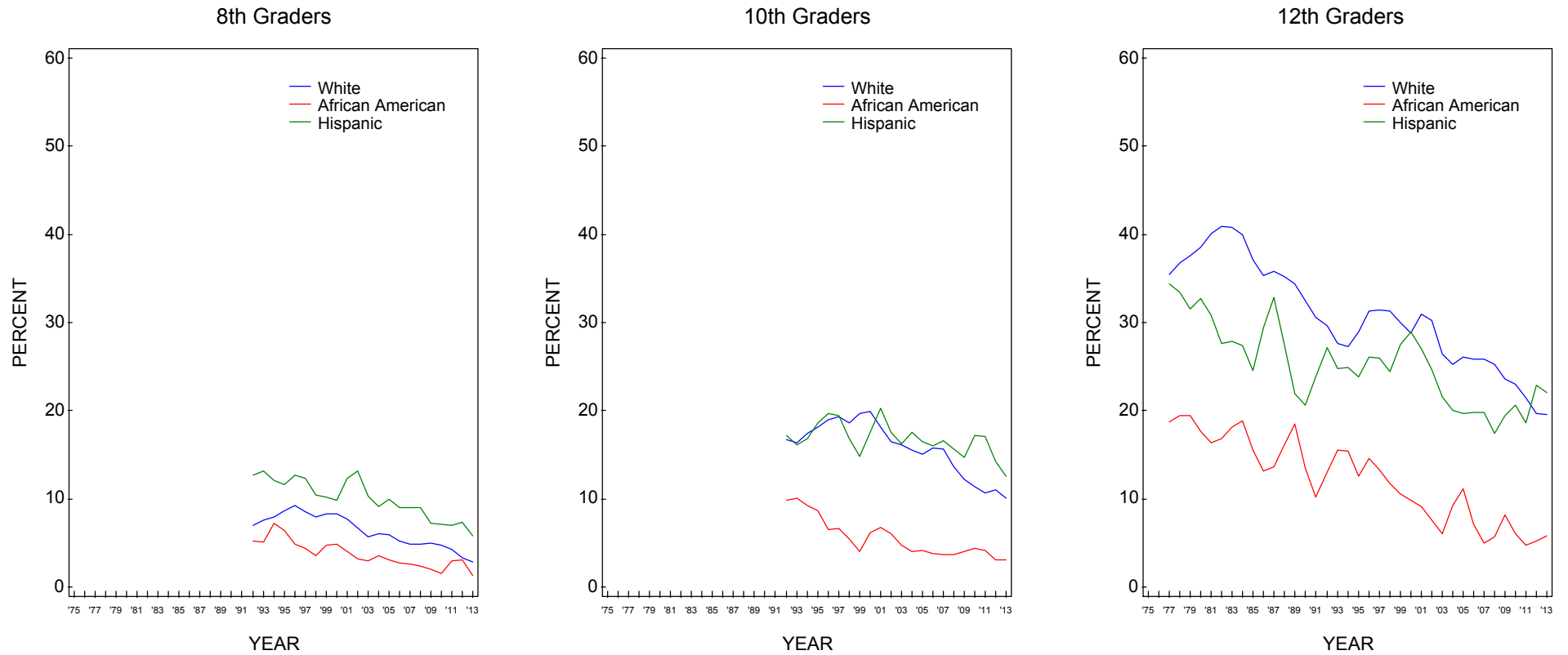
**FIGURE 227**

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



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

**FIGURE 228**  
**Beer: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Race/Ethnicity\***

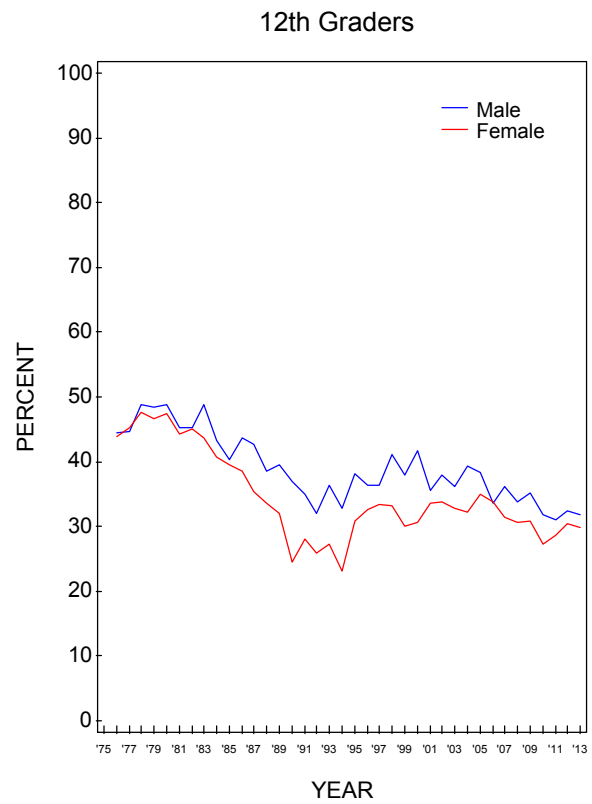


Source. The Monitoring the Future study, the University of Michigan.

\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

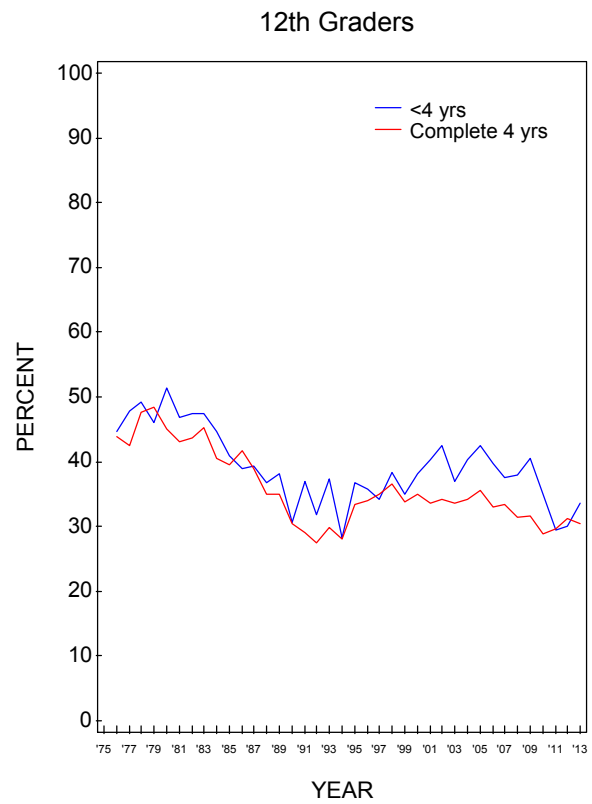


**FIGURE 229**  
**Liquor: Trends in 30-Day Prevalence by Gender**



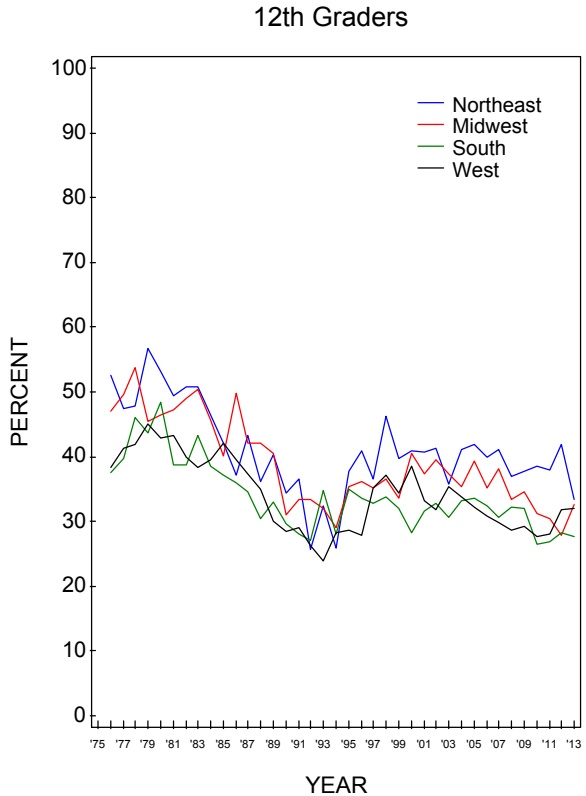
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 230**  
**Liquor: Trends in 30-Day Prevalence by College Plans**



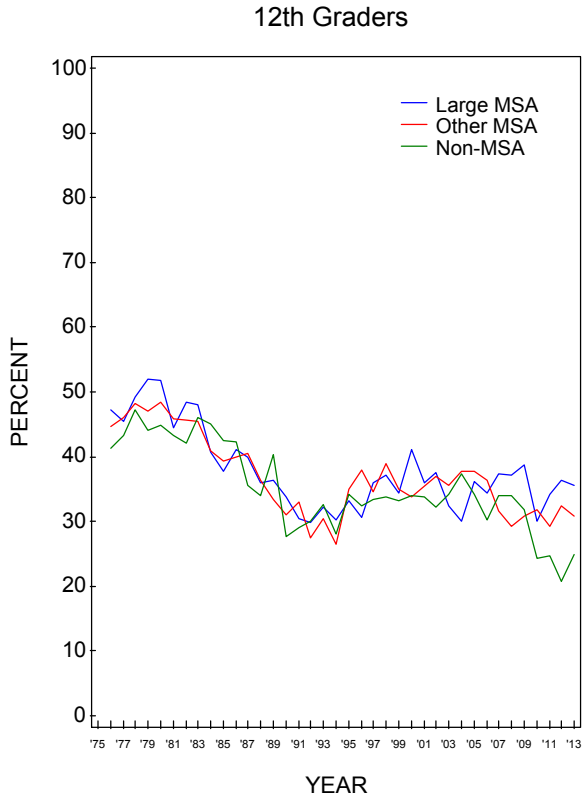
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 231**  
**Liquor: Trends in 30-Day Prevalence by Region**



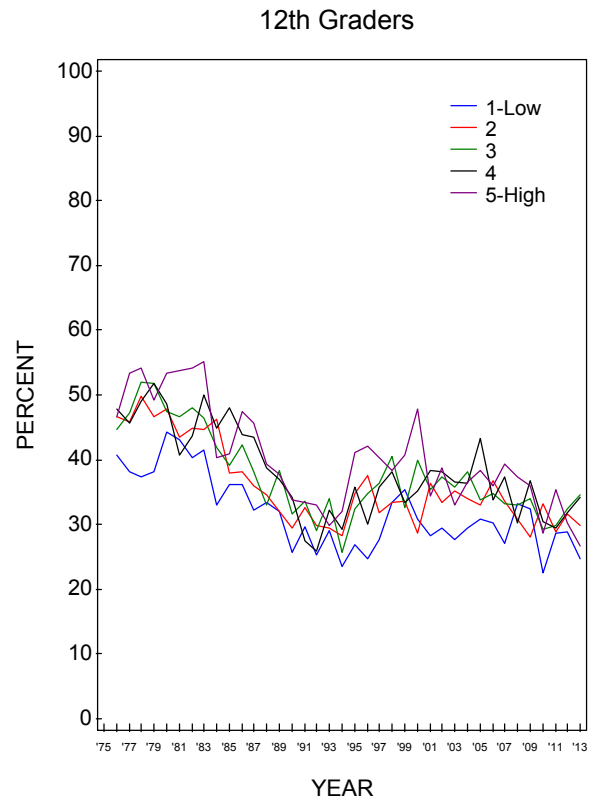
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 232**  
**Liquor: Trends in 30-Day Prevalence by Population Density**



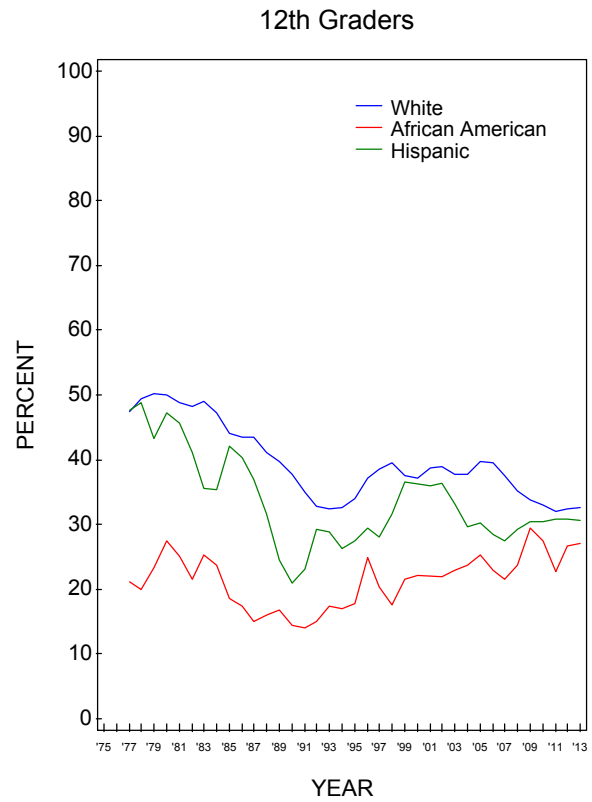
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 233**  
**Liquor: Trends in 30-Day Prevalence by Average Education Level of Parents**



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

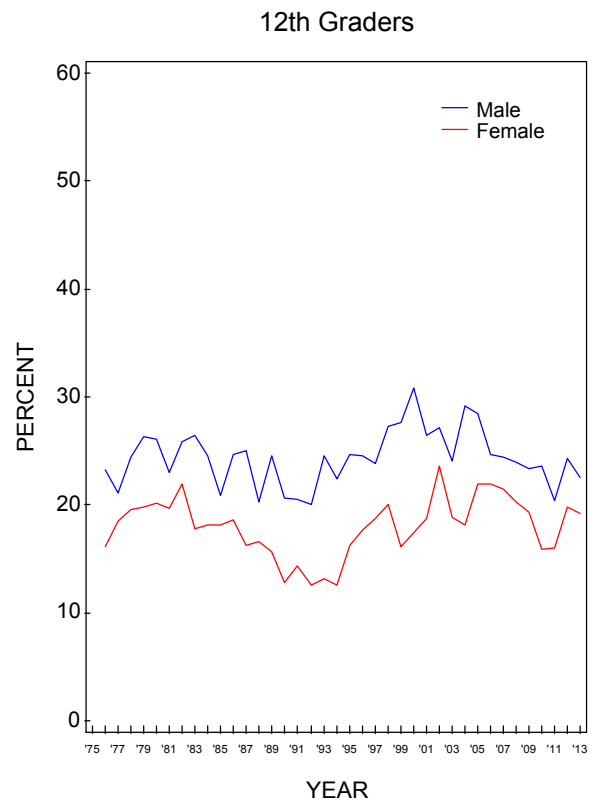
**FIGURE 234**  
**Liquor: Trends in 30-Day Prevalence by Race/Ethnicity\***



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

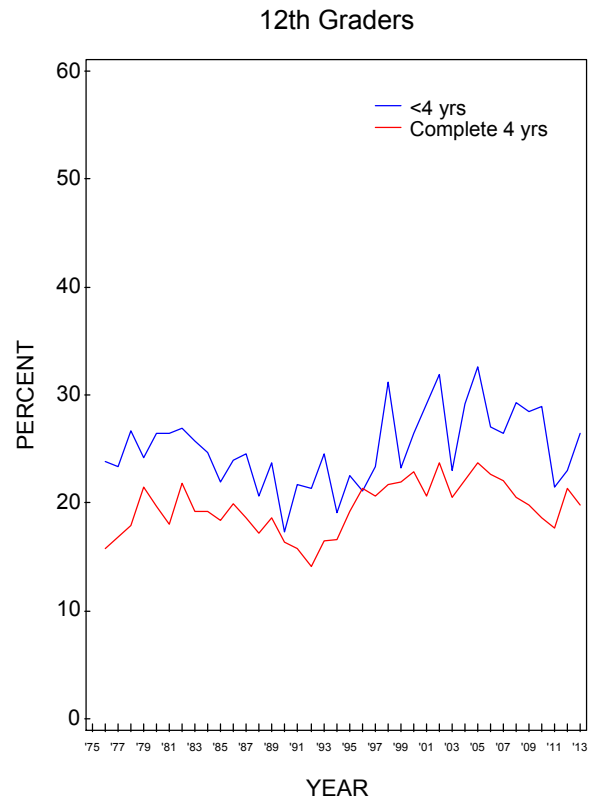
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 235**  
**Liquor: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Gender**



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

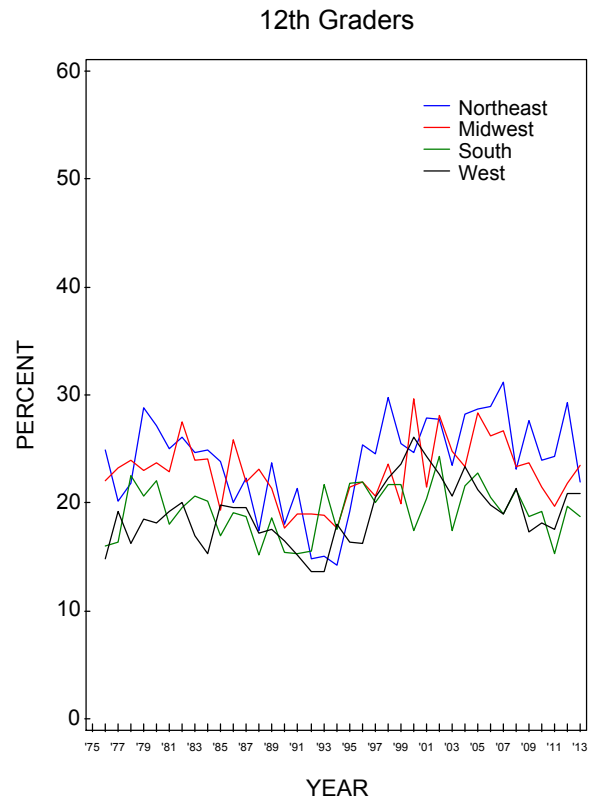
**FIGURE 236**  
**Liquor: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by College Plans**



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



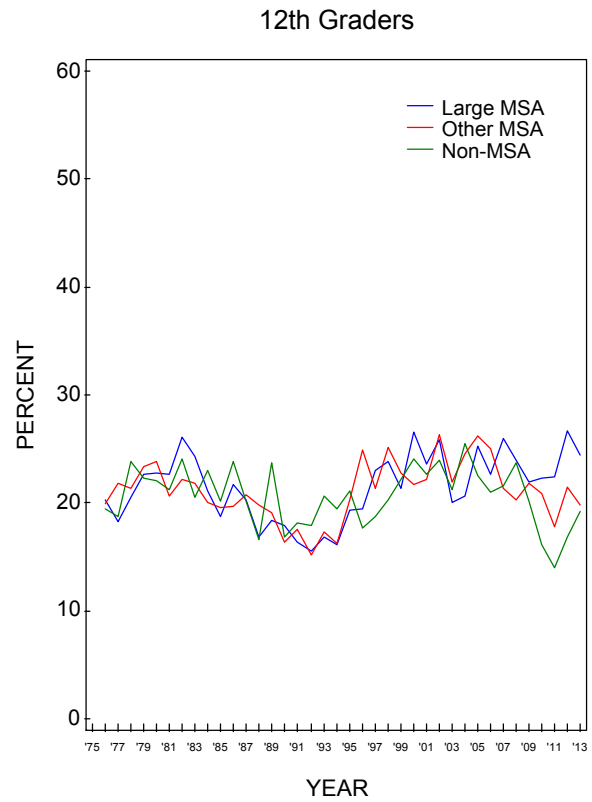
**FIGURE 237**  
**Liquor: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Region**



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

**FIGURE 238**

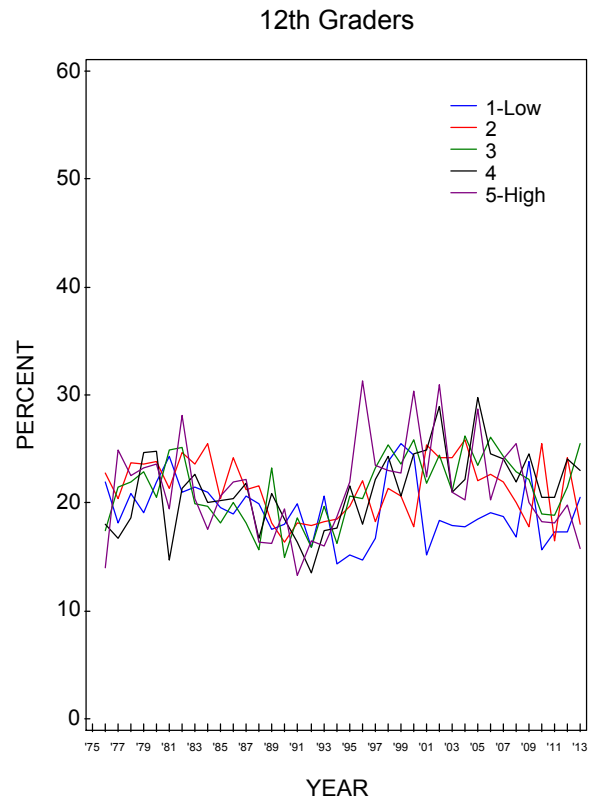
**Liquor: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Population Density**



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

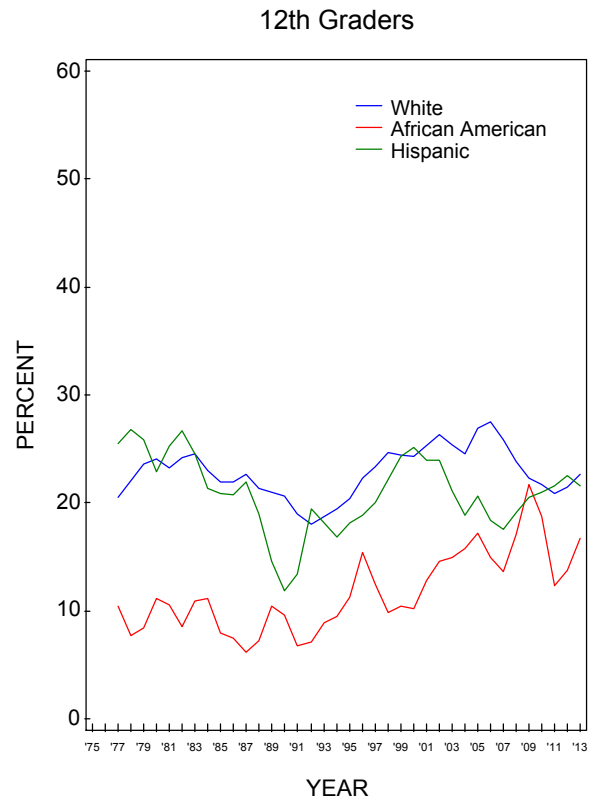
**FIGURE 239**

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



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

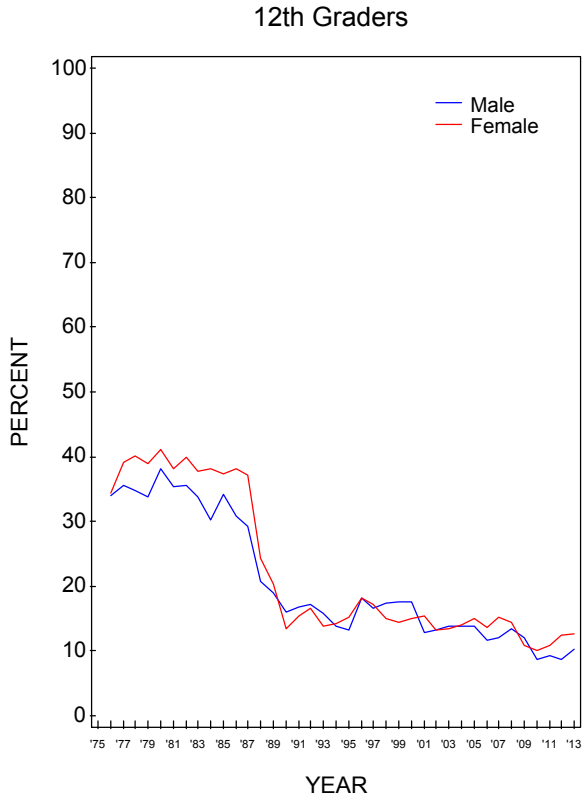
**FIGURE 240**  
**Liquor: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Race/Ethnicity\***



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

\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

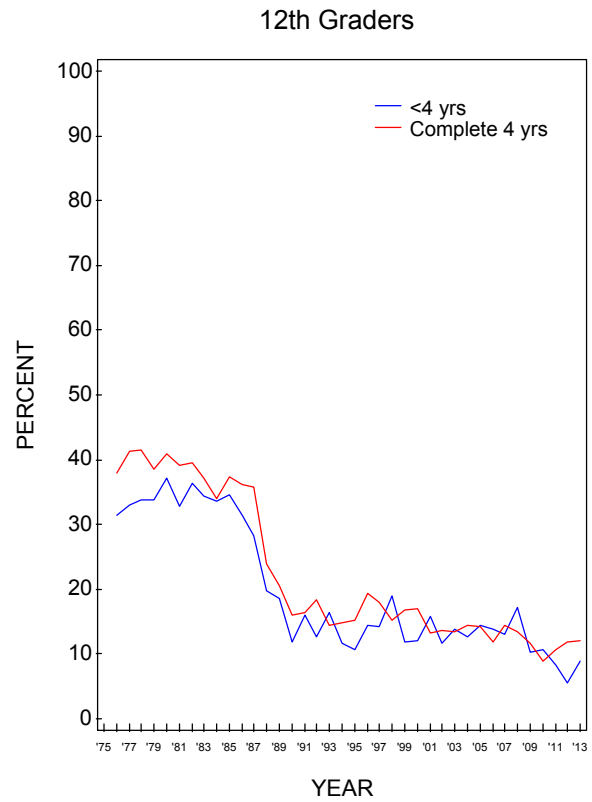
**FIGURE 241**  
**Wine:\* Trends in 30-Day Prevalence by Gender**



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

\*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

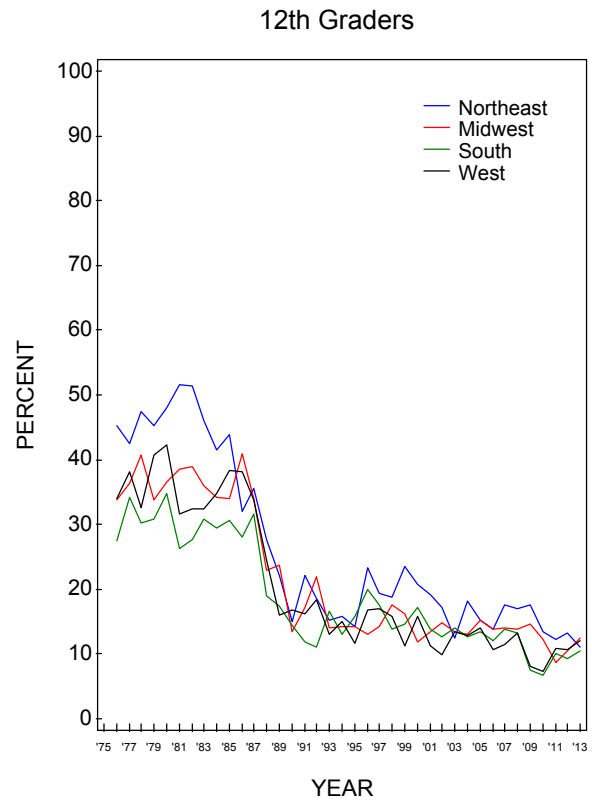
**FIGURE 242**  
**Wine:\* Trends in 30-Day Prevalence by College Plans**



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

\*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

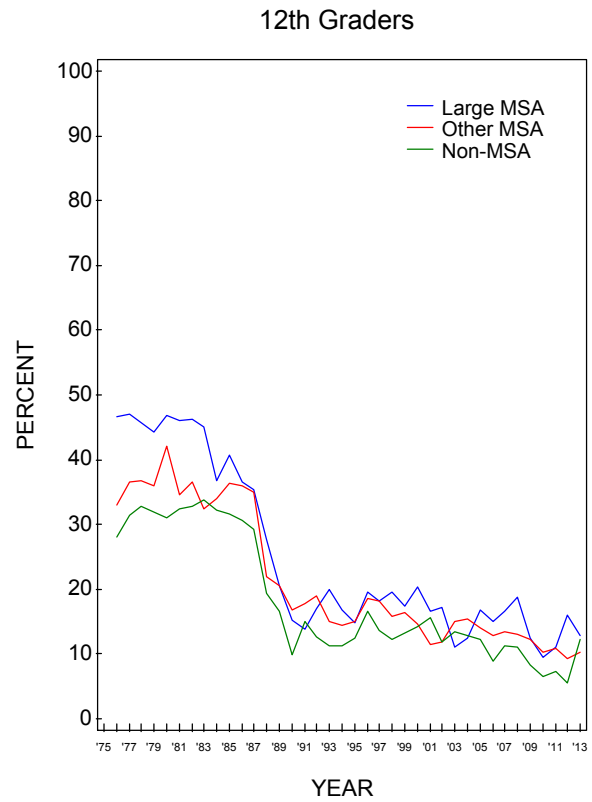
**FIGURE 243**  
**Wine:\* Trends in 30-Day Prevalence by Region**



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

\*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

**FIGURE 244**  
**Wine:\* Trends in 30-Day Prevalence by Population Density**

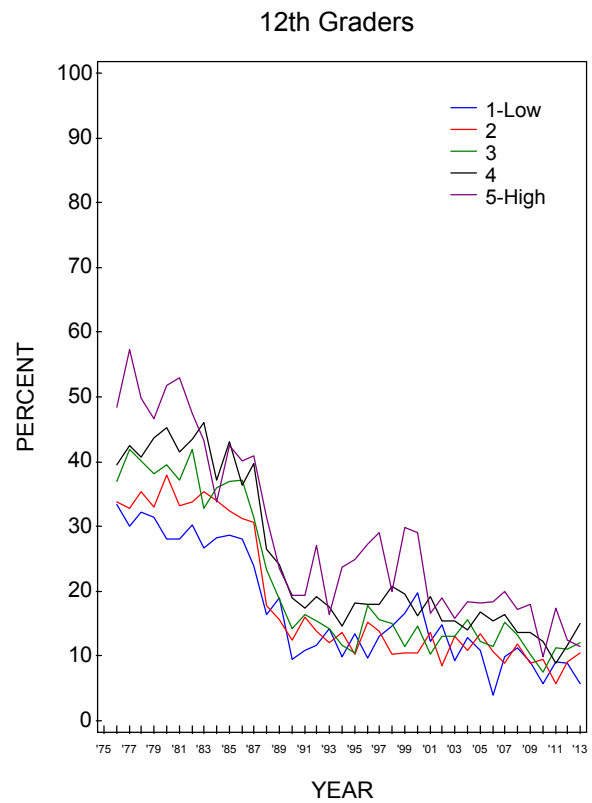


Source. The Monitoring the Future study, the University of Michigan.

\*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.



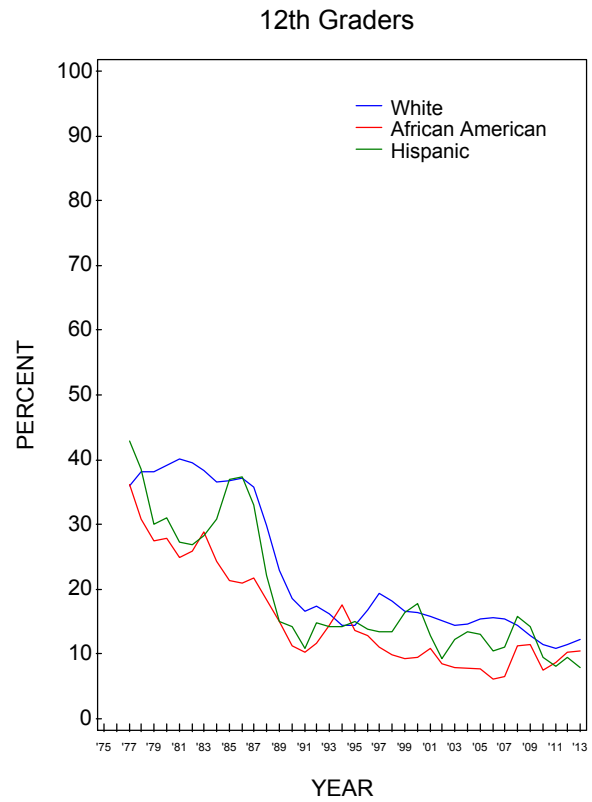
**FIGURE 245**  
**Wine:\* Trends in 30-Day Prevalence by Average Education Level of Parents**



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

\*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

**FIGURE 246**  
**Wine:\* Trends in 30-Day Prevalence by Race/Ethnicity\*\***

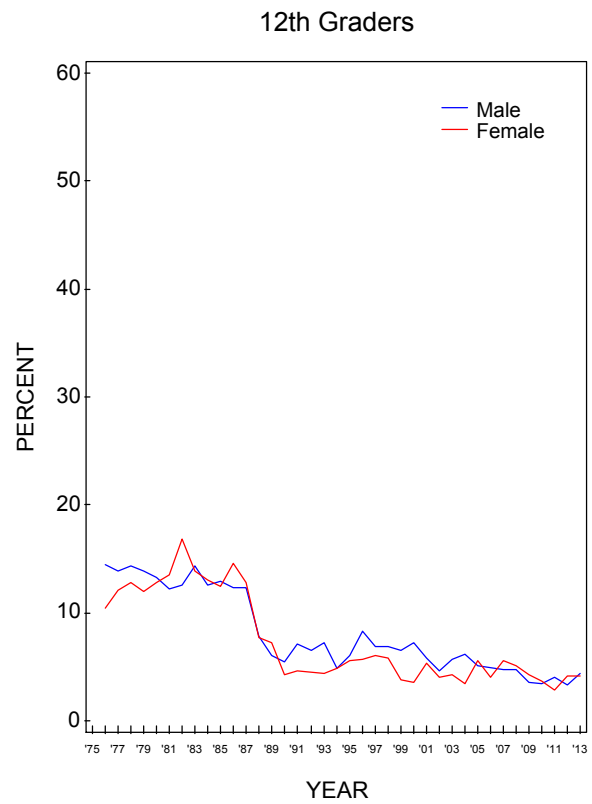


Source. The Monitoring the Future study, the University of Michigan.

\*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

\*\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 247**  
**Wine:\* Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Gender**

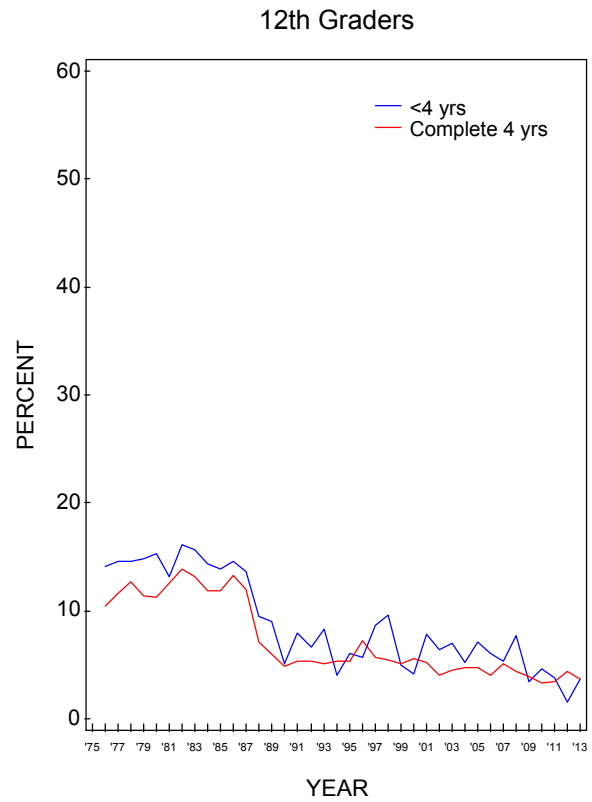


Source. The Monitoring the Future study, the University of Michigan.

\*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

**FIGURE 248**

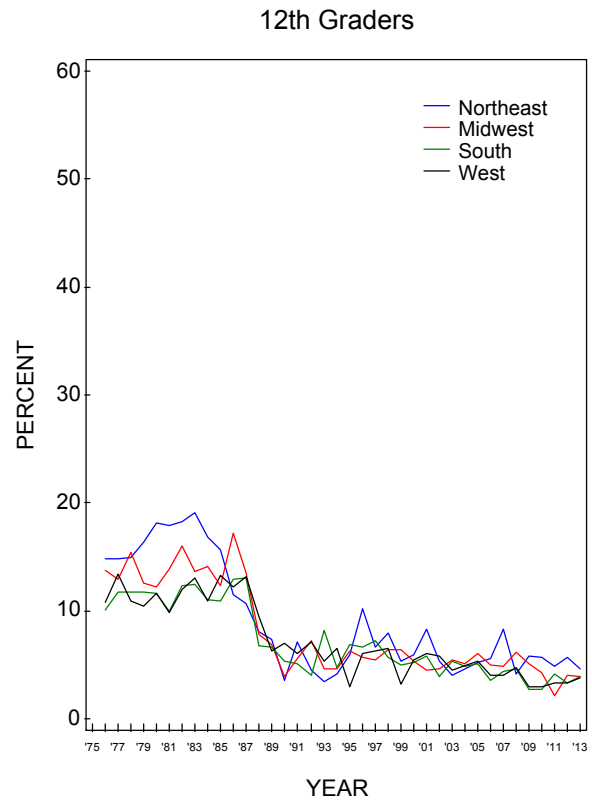
**Wine:\* Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by College Plans**



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

\*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

**FIGURE 249**  
**Wine:\* Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Region**

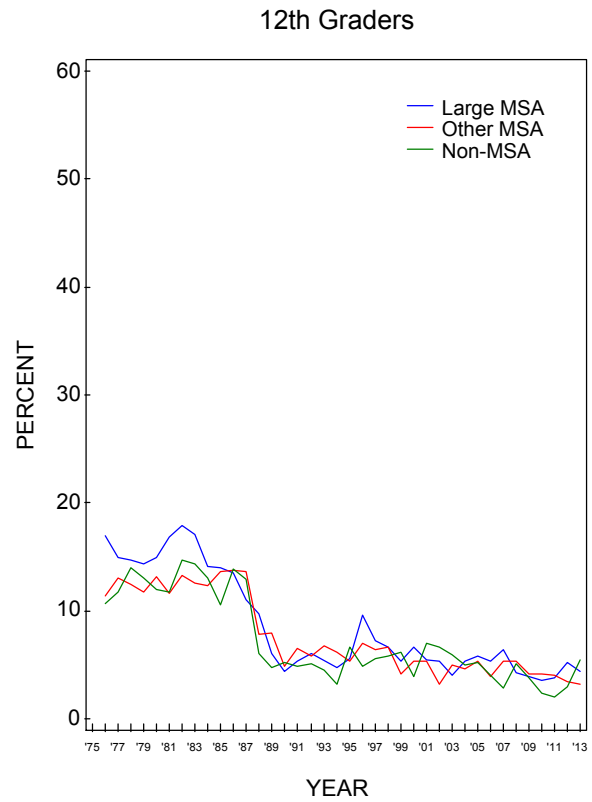


Source. The Monitoring the Future study, the University of Michigan.

\*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

**FIGURE 250**

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

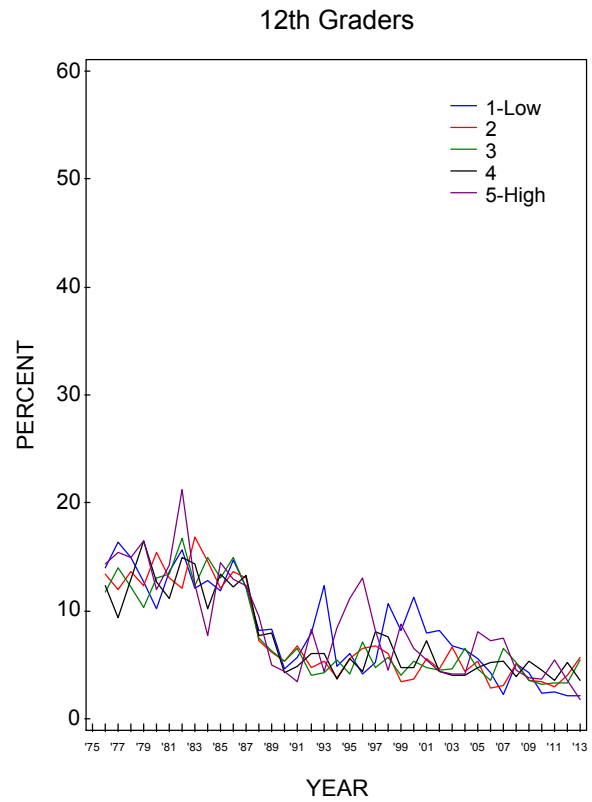


Source. The Monitoring the Future study, the University of Michigan.

\*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

**FIGURE 251**

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

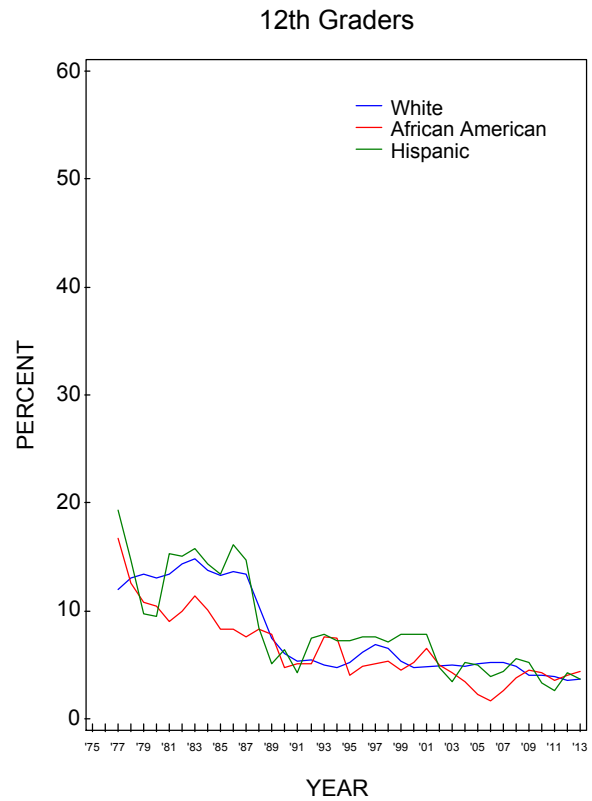


Source. The Monitoring the Future study, the University of Michigan.

\*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

**FIGURE 252**

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



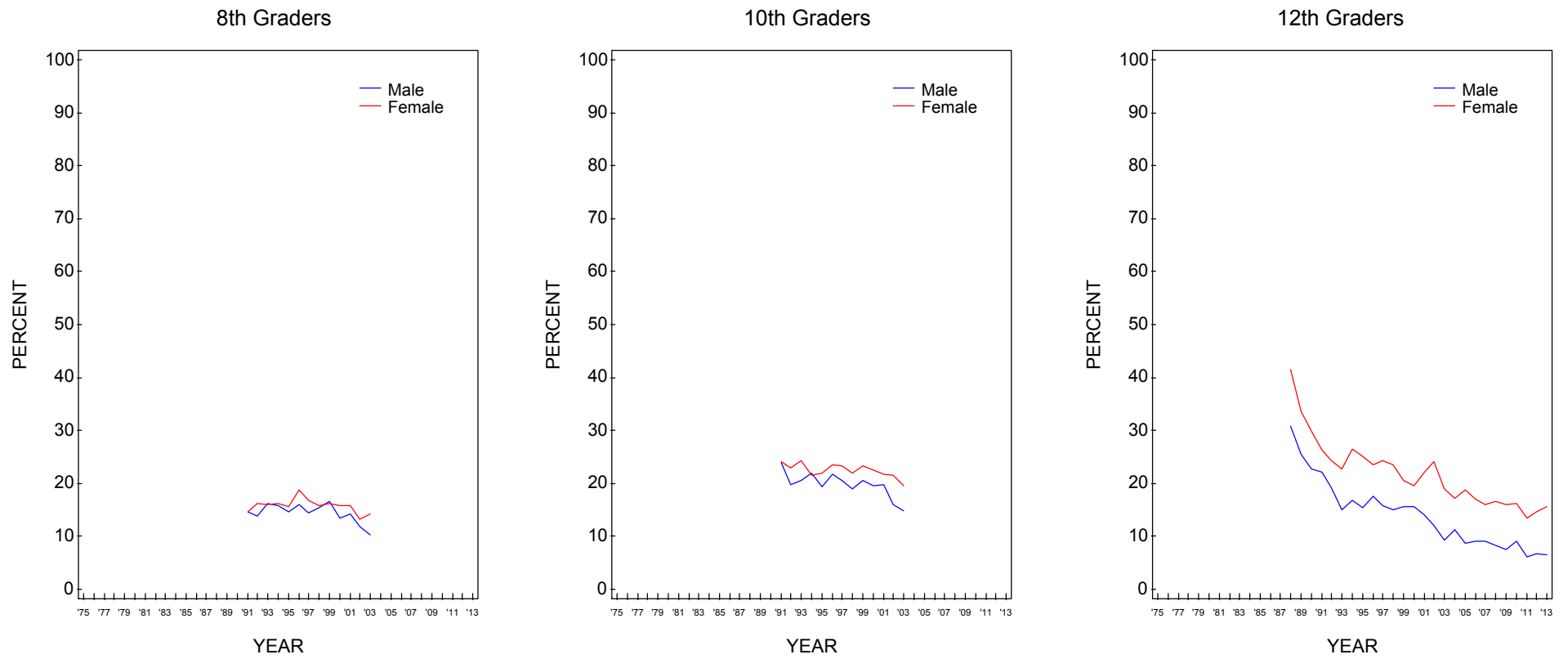
Source. The Monitoring the Future study, the University of Michigan.

\*In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

\*\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

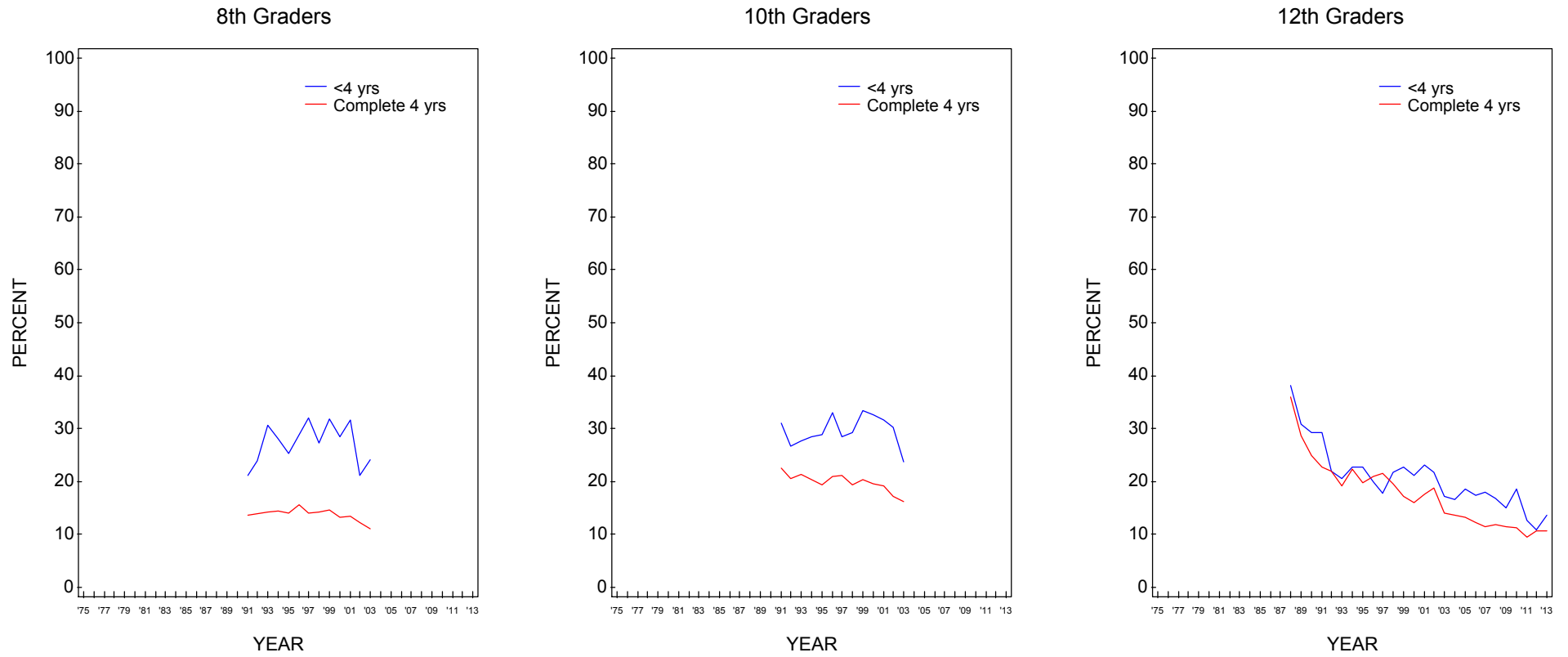


**FIGURE 253**  
**Wine Coolers:\* Trends in 30-Day Prevalence by Gender**



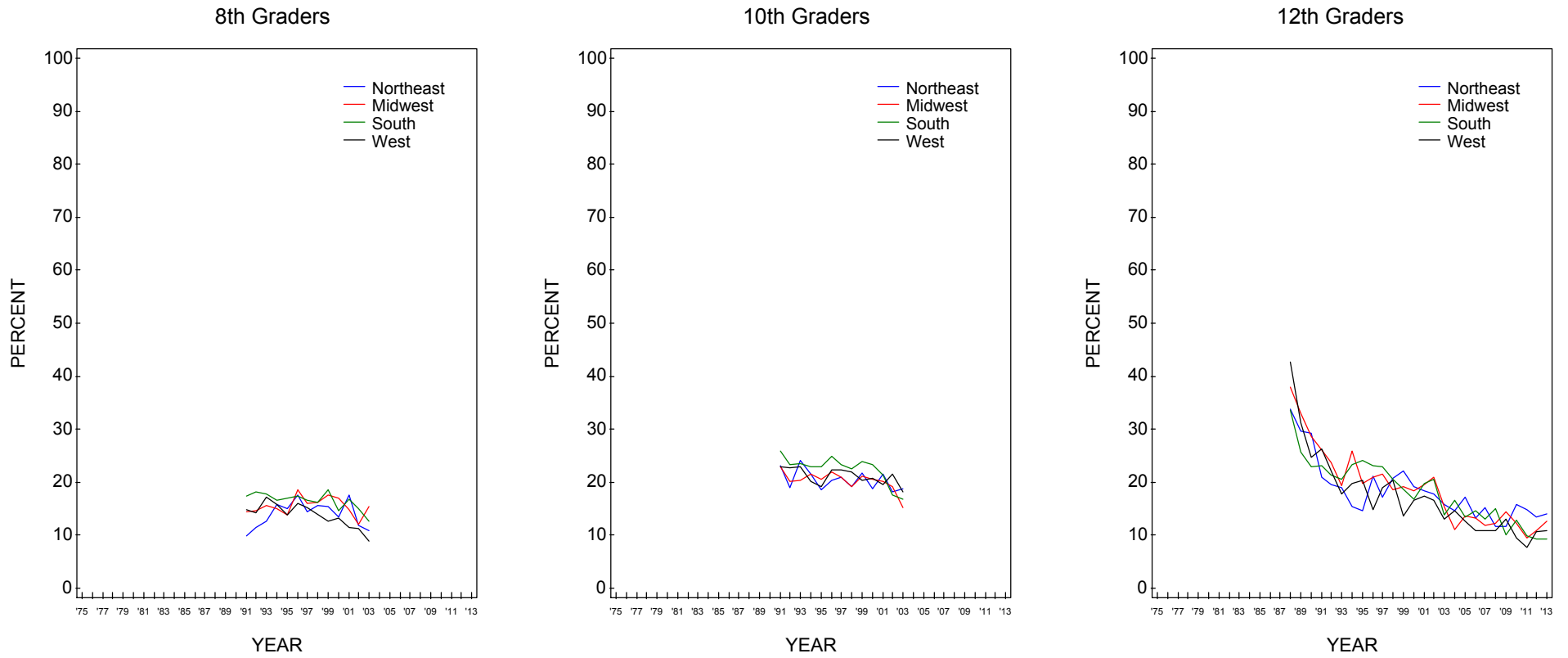
Source. The Monitoring the Future study, the University of Michigan.  
 \*Question discontinued for 8th and 10th graders in 2004.

**FIGURE 254**  
**Wine Coolers:\* Trends in 30-Day Prevalence by College Plans**



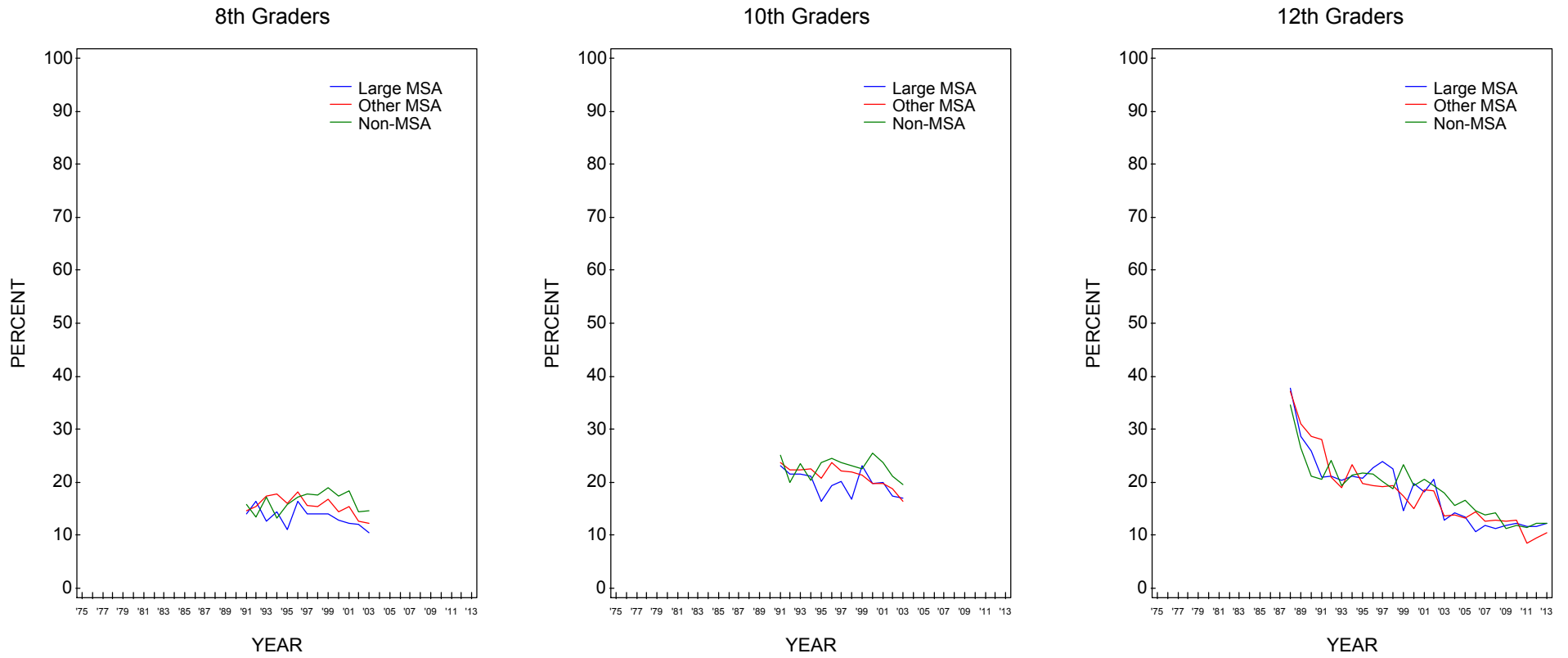
Source. The Monitoring the Future study, the University of Michigan.  
 \*Question discontinued for 8th and 10th graders in 2004.

**FIGURE 255**  
**Wine Coolers:\* Trends in 30-Day Prevalence by Region**



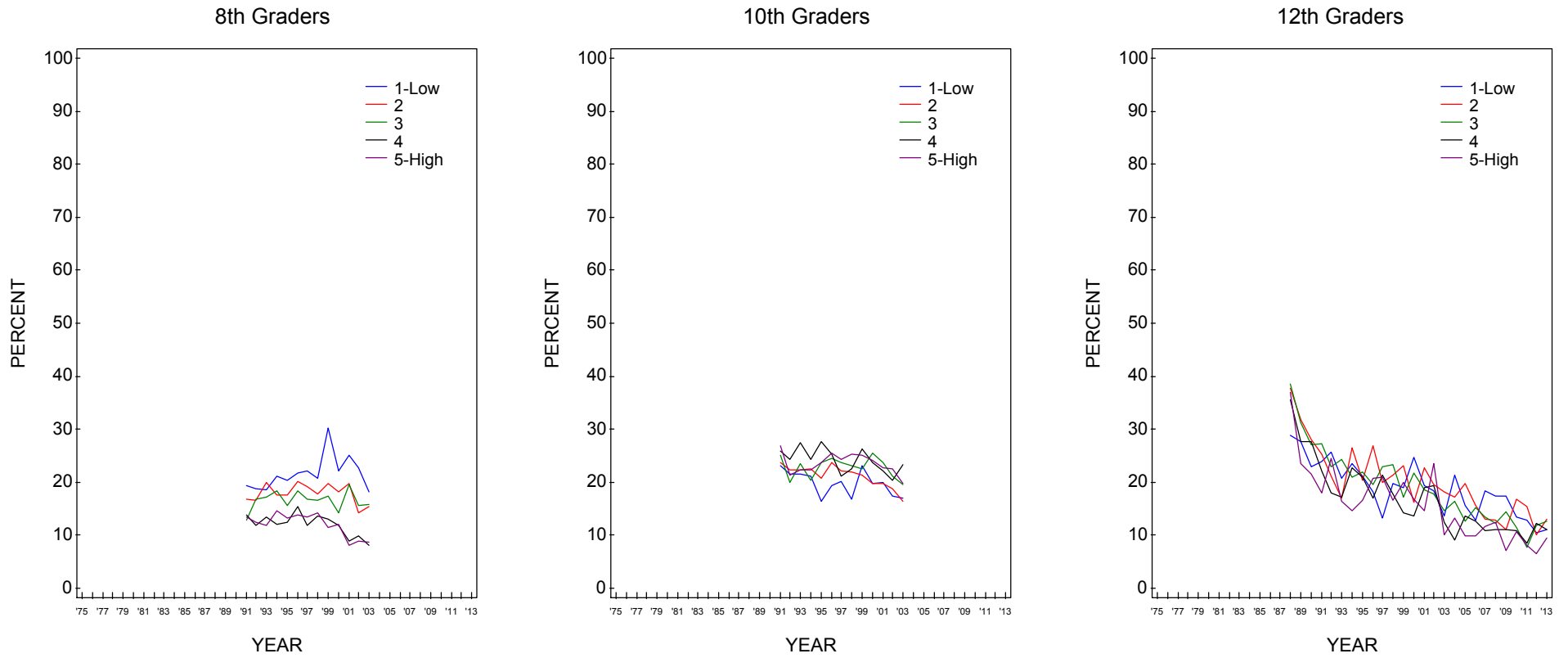
Source. The Monitoring the Future study, the University of Michigan.  
 \*Question discontinued for 8th and 10th graders in 2004.

**FIGURE 256**  
**Wine Coolers:\* Trends in 30-Day Prevalence by Population Density**



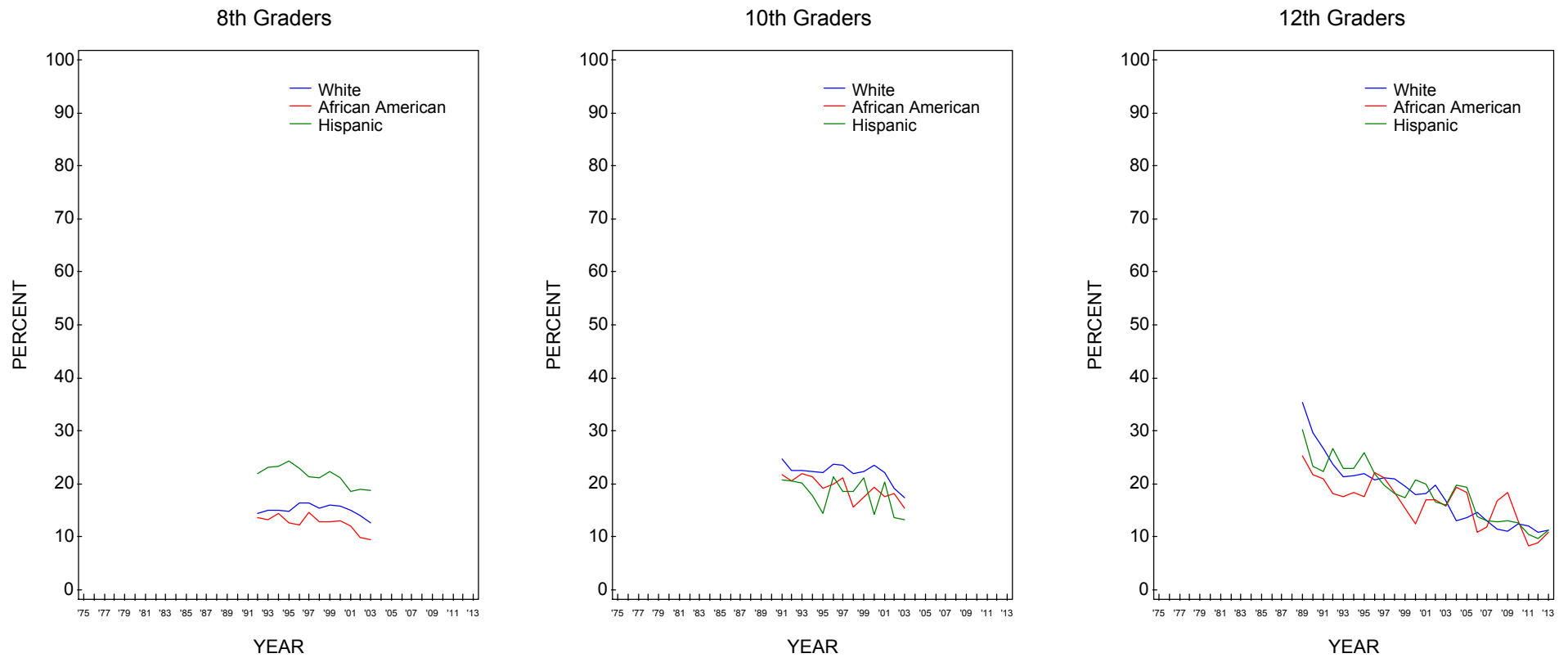
Source. The Monitoring the Future study, the University of Michigan.  
 \*Question discontinued for 8th and 10th graders in 2004.

**FIGURE 257**  
**Wine Coolers:\* Trends in 30-Day Prevalence by Average Education Level of Parents**



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

**FIGURE 258**  
**Wine Coolers:\* Trends in 30-Day Prevalence by Race/Ethnicity\*\***

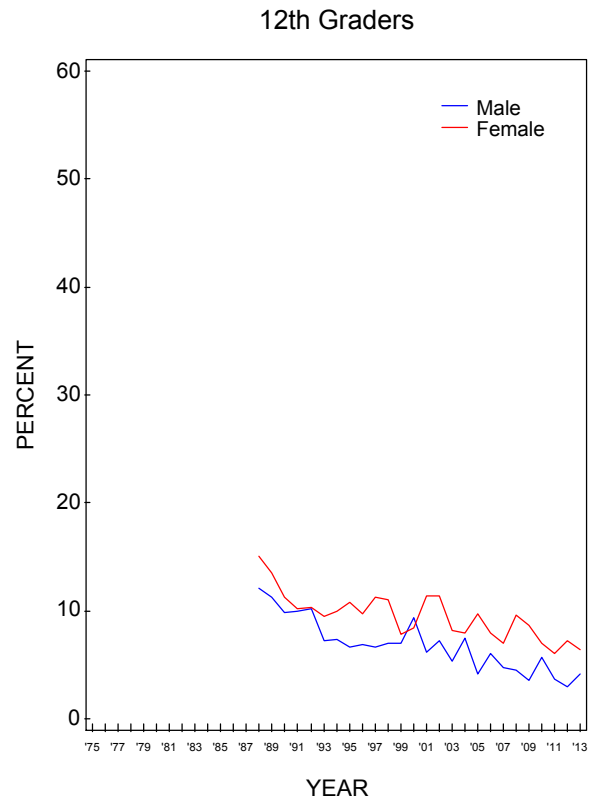


Source. The Monitoring the Future study, the University of Michigan.

\*Question discontinued for 8th and 10th graders in 2004.

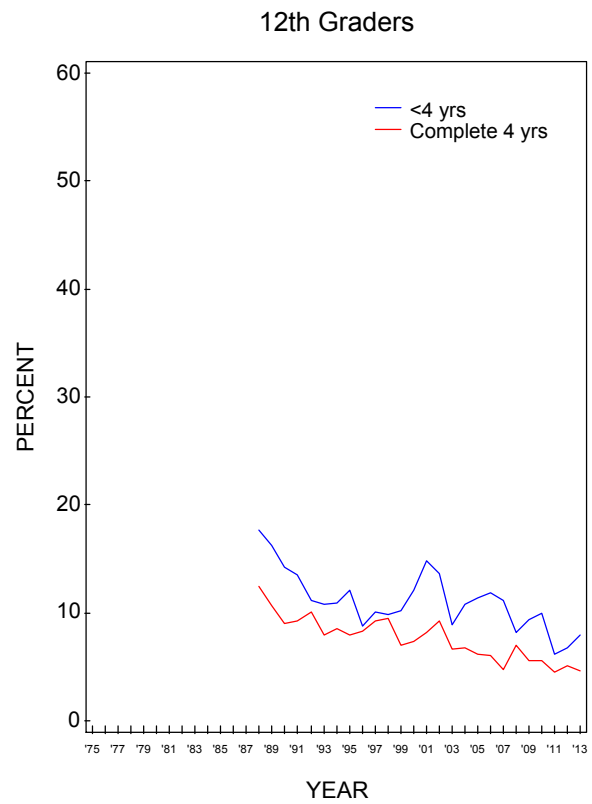
\*\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 259**  
**Wine Coolers: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Gender**



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

**FIGURE 260**  
**Wine Coolers: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by College Plans**

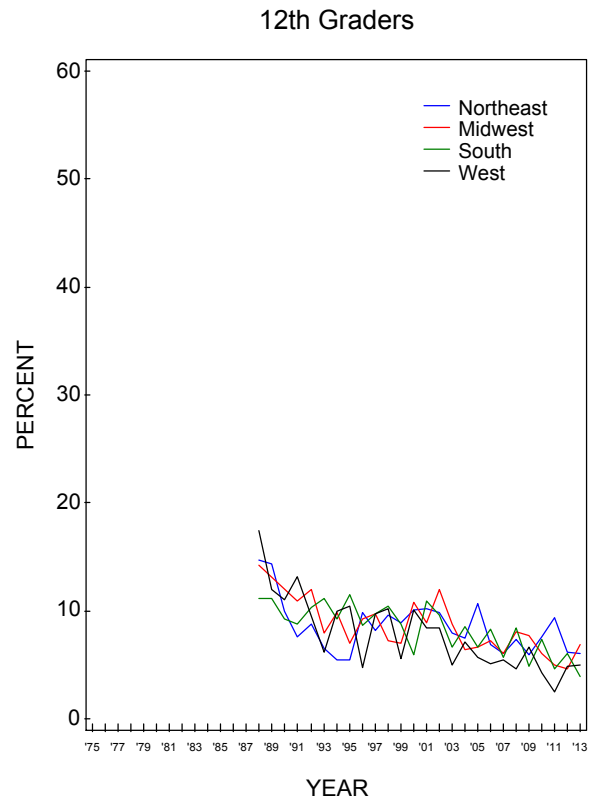


Source. The Monitoring the Future study, the University of Michigan.



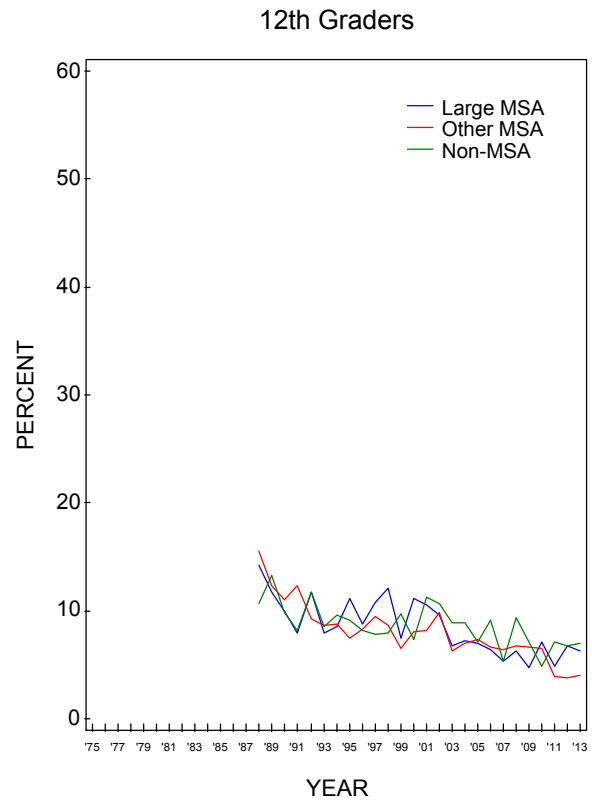
**FIGURE 261**

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



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

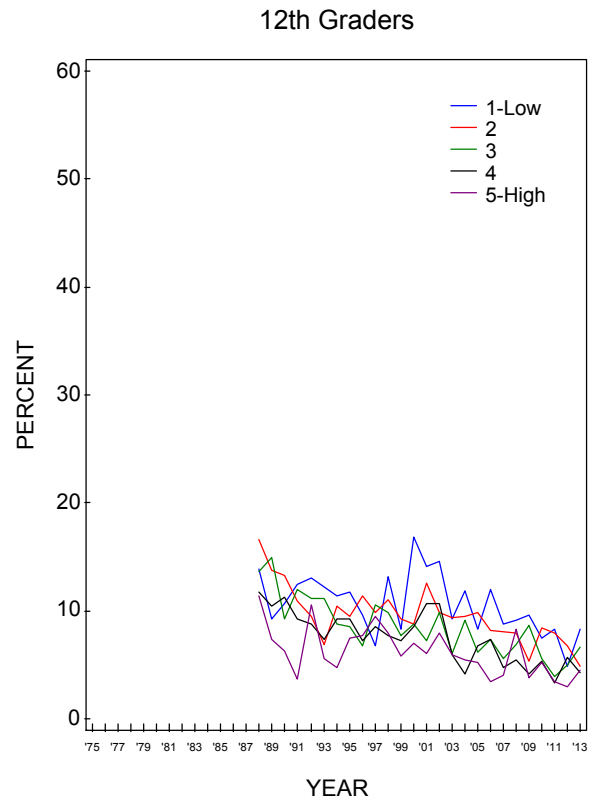
**FIGURE 262**  
**Wine Coolers: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Population Density**



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

**FIGURE 263**

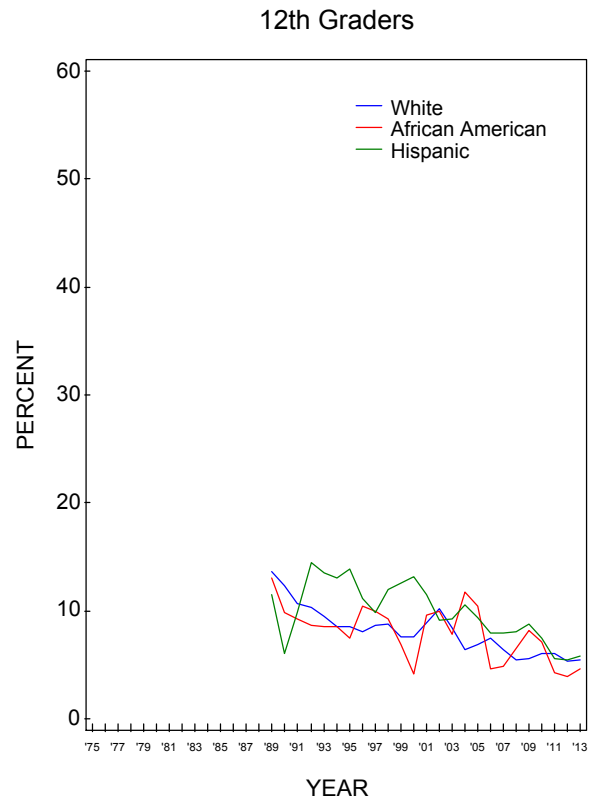
**Wine Coolers: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Average Education Level of Parents**



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

**FIGURE 264**

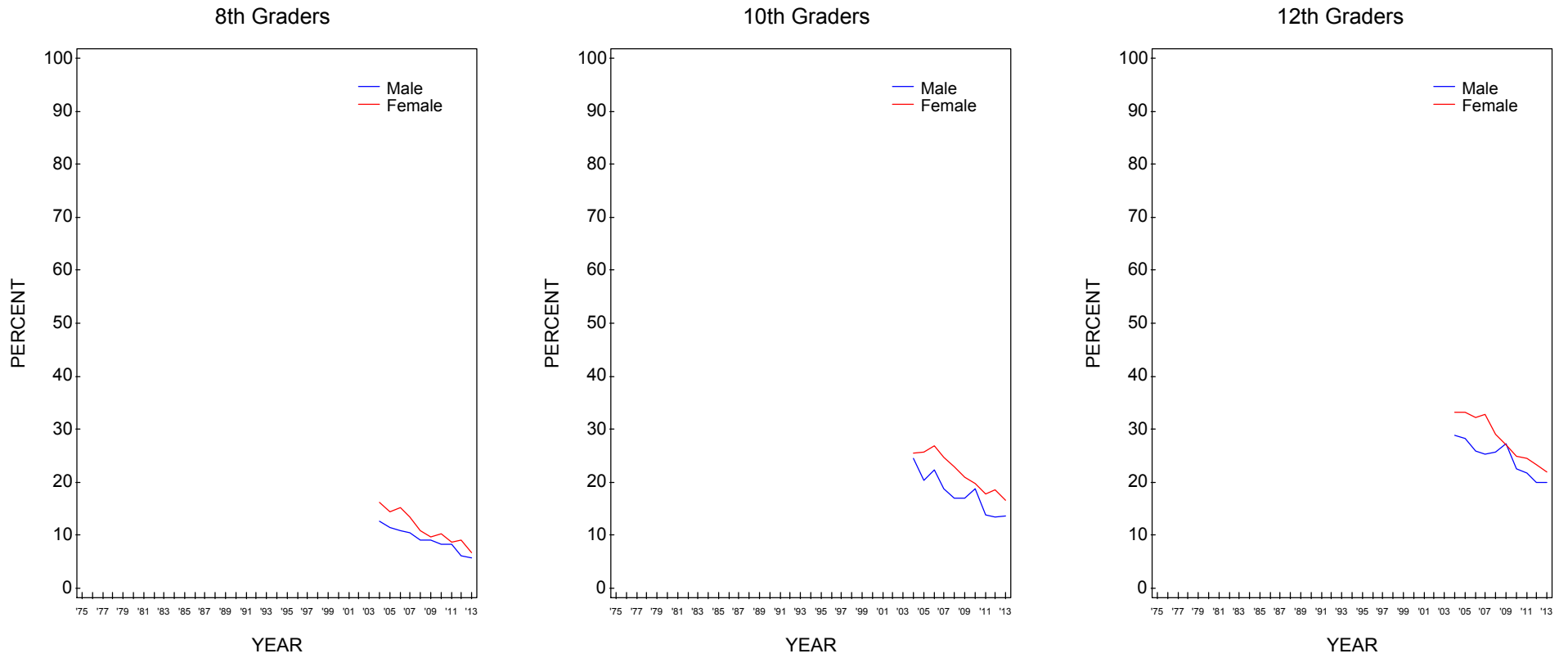
**Wine Coolers: Trends in 2-Week Prevalence of Having 5 or More Drinks in a Row by Race/Ethnicity\***



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

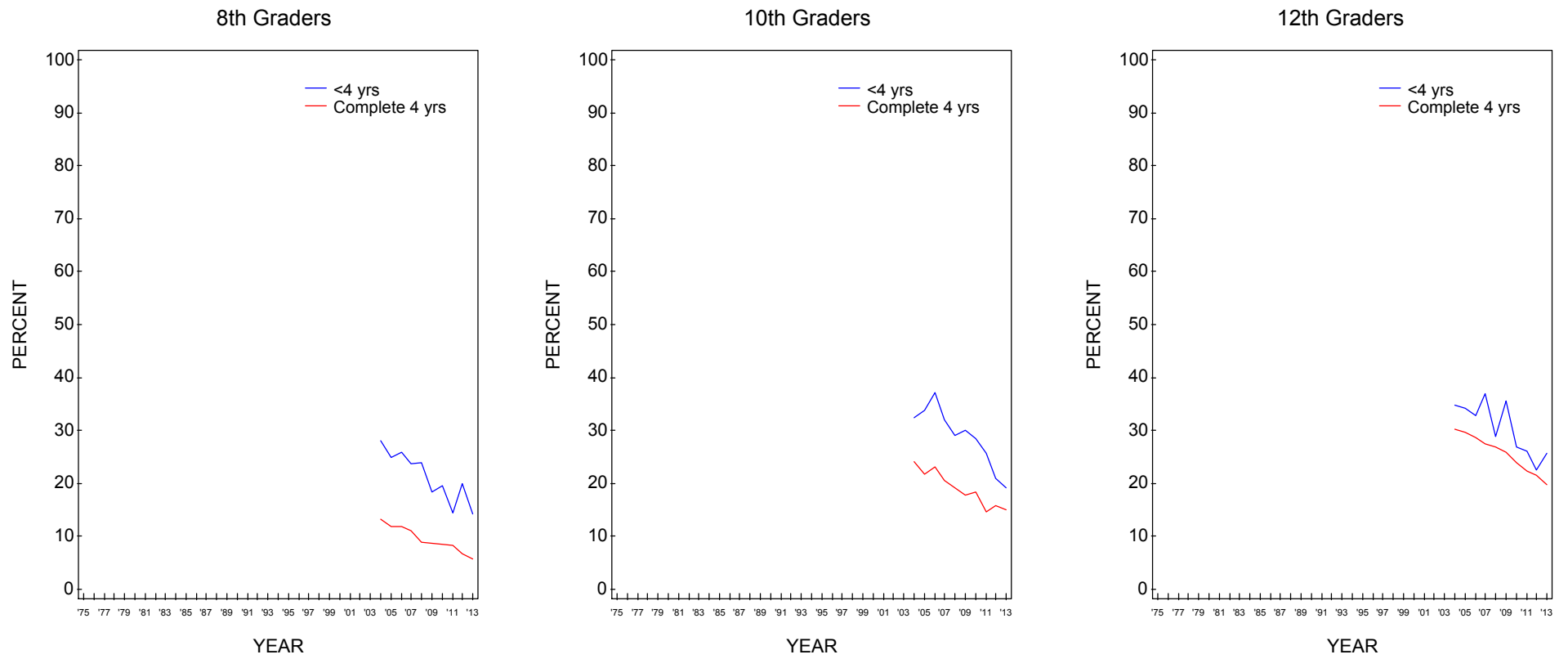
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 265**  
**Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by Gender**



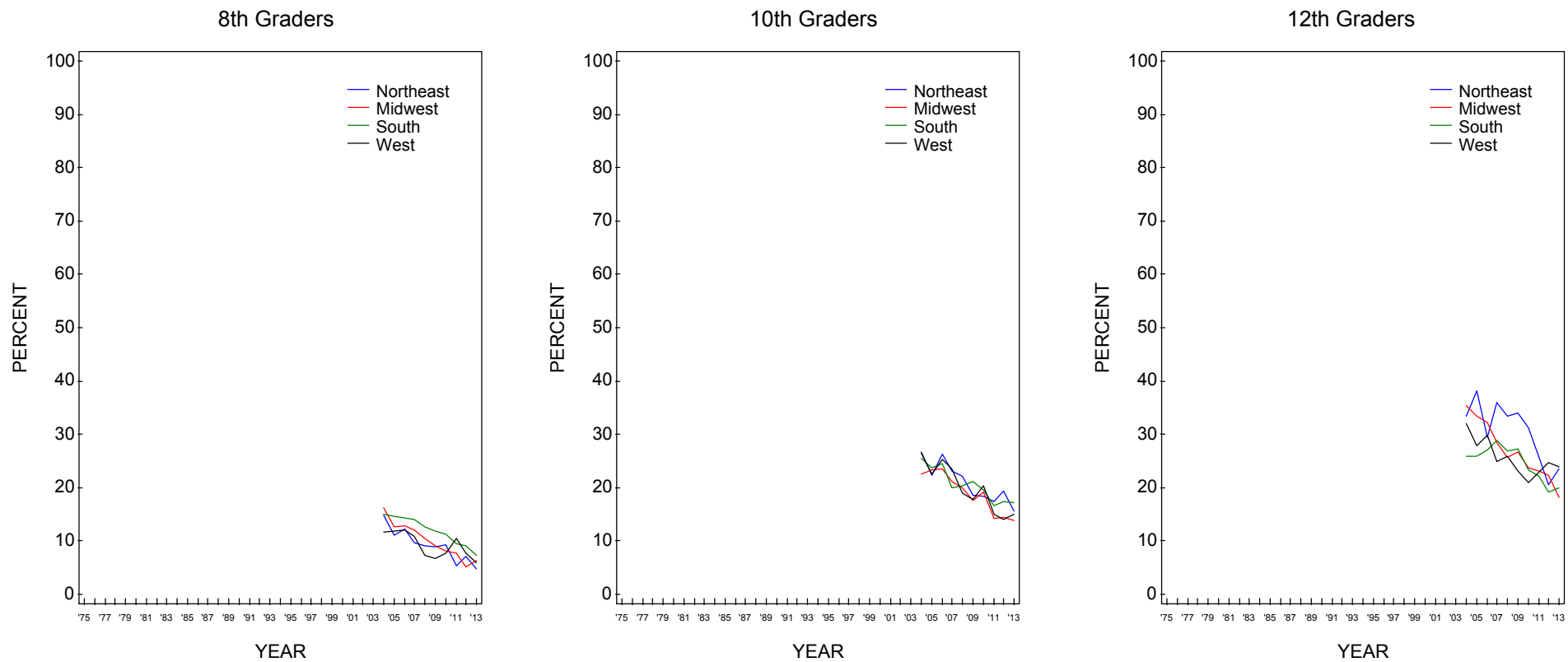
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 266**  
**Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by College Plans**



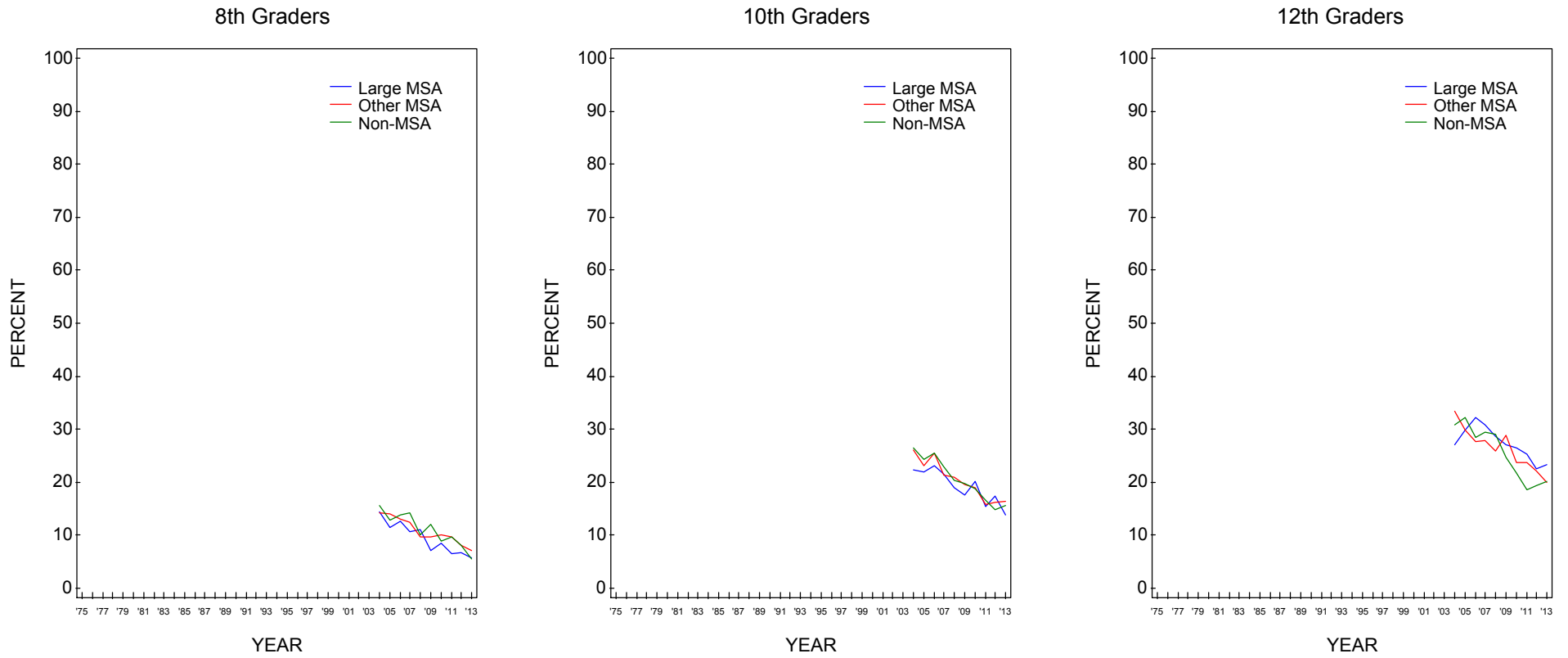
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 267**  
**Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by Region**



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

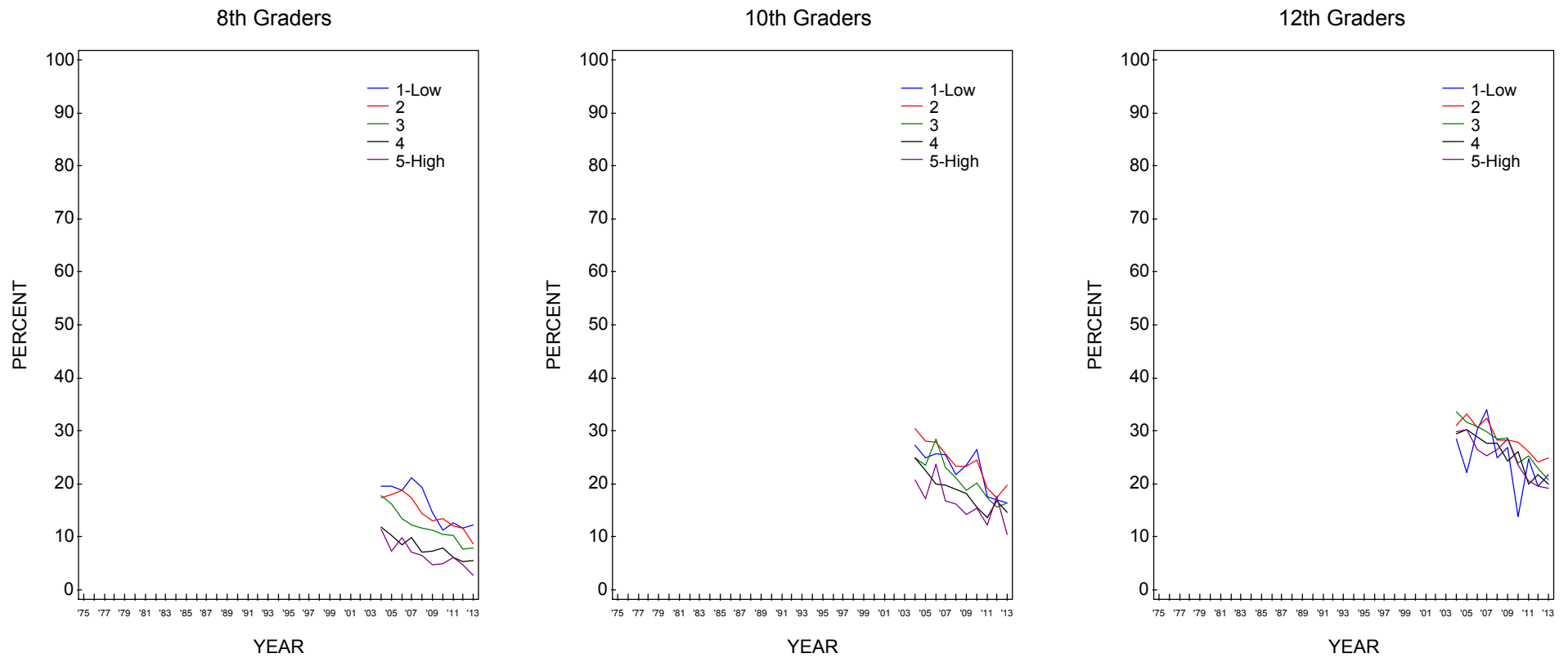
**FIGURE 268**  
**Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by Population Density**



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

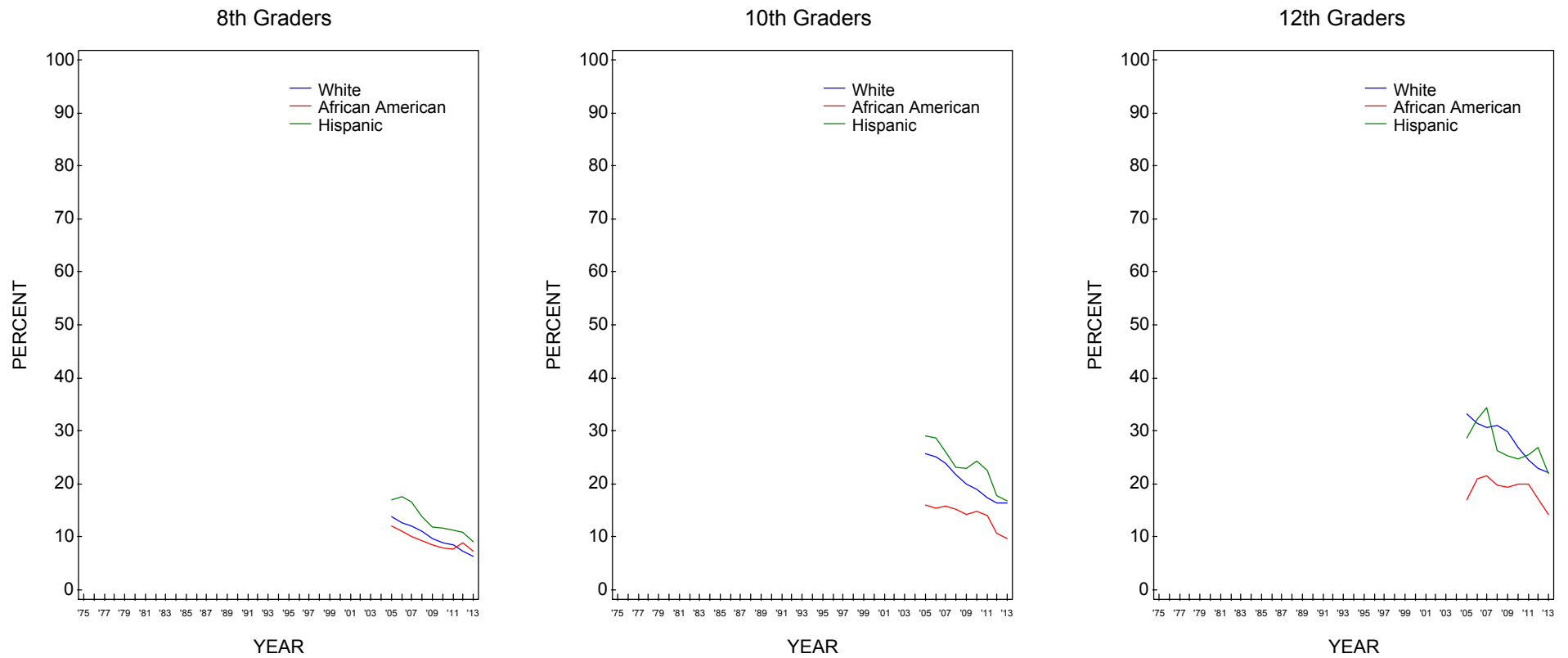


**FIGURE 269**  
**Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by Average Education Level of Parents**



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

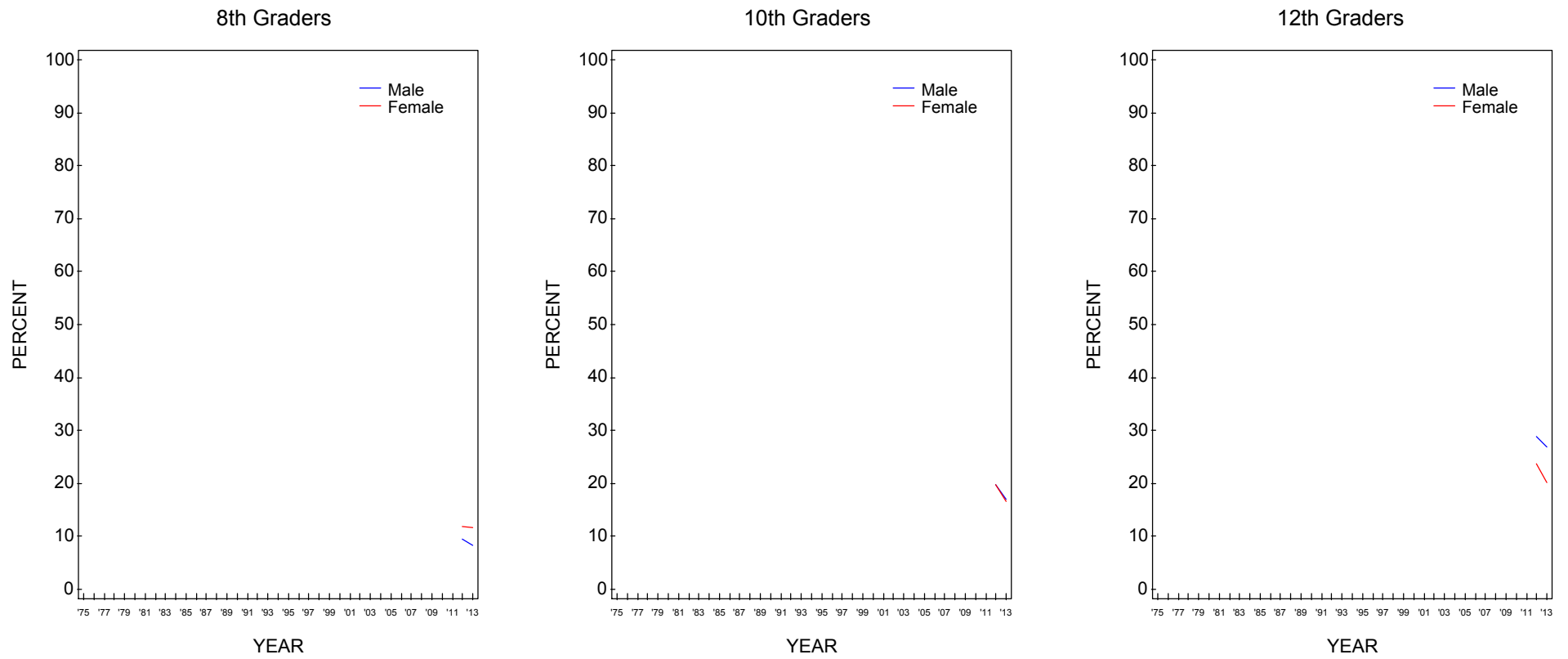
**FIGURE 270**  
**Flavored Alcoholic Beverages: Trends in 30-Day Prevalence by Race/Ethnicity\***



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

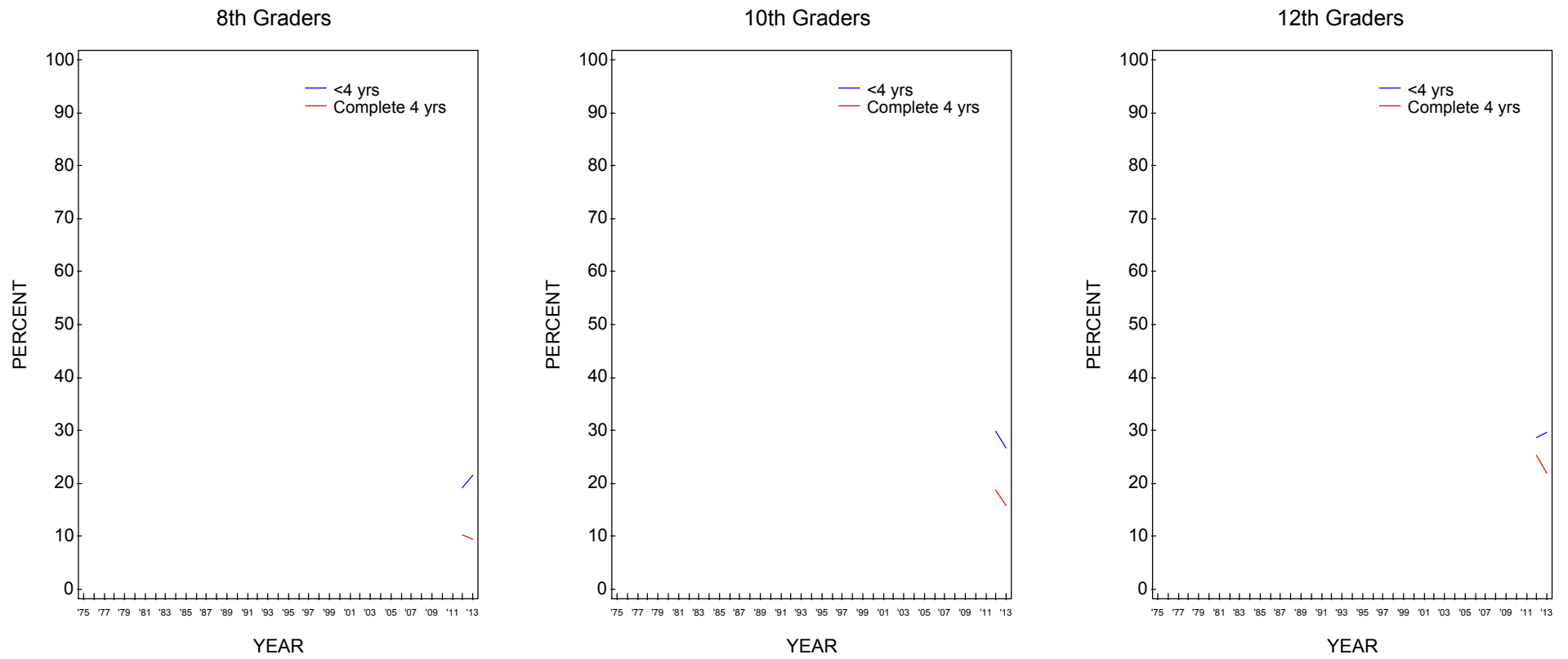
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 271**  
**Alcoholic Beverages containing Caffeine: Trends in Annual Prevalence by Gender**



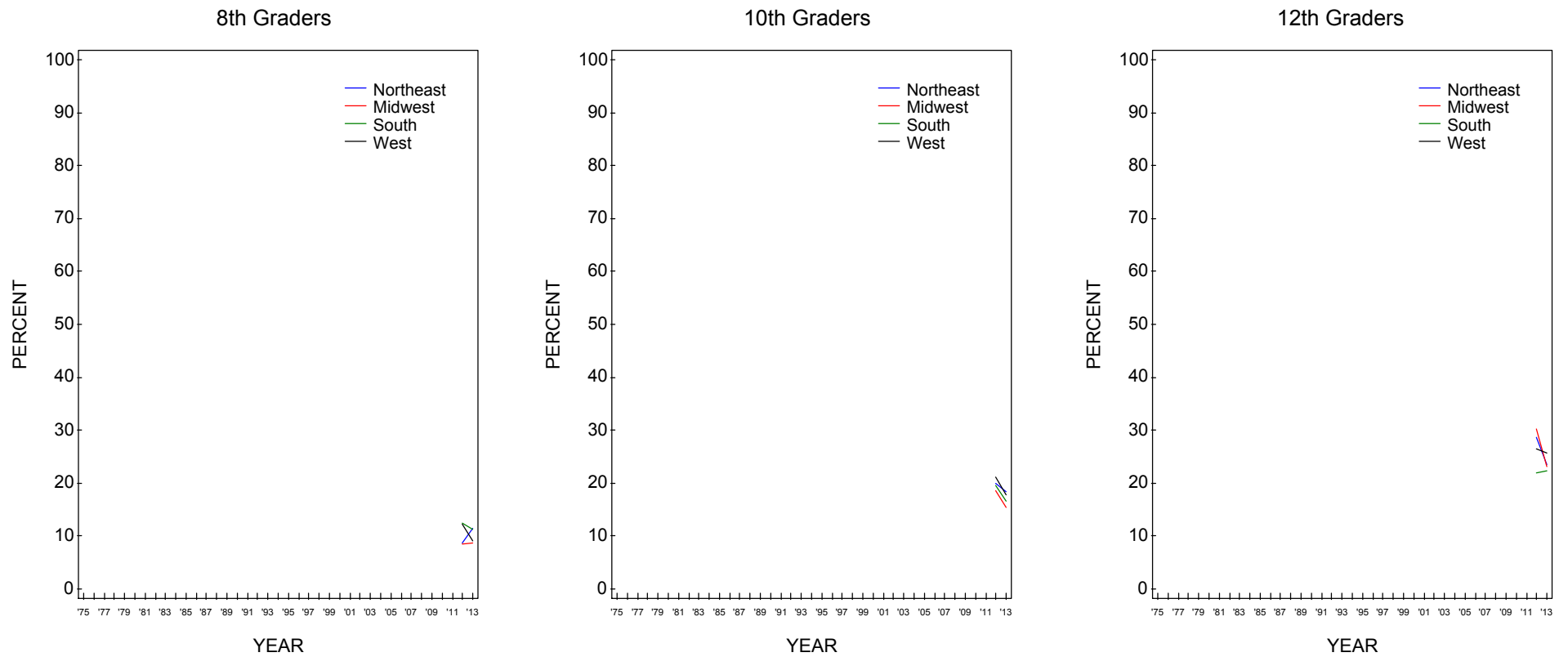
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 272**  
**Alcoholic Beverages containing Caffeine: Trends in Annual Prevalence by College Plans**



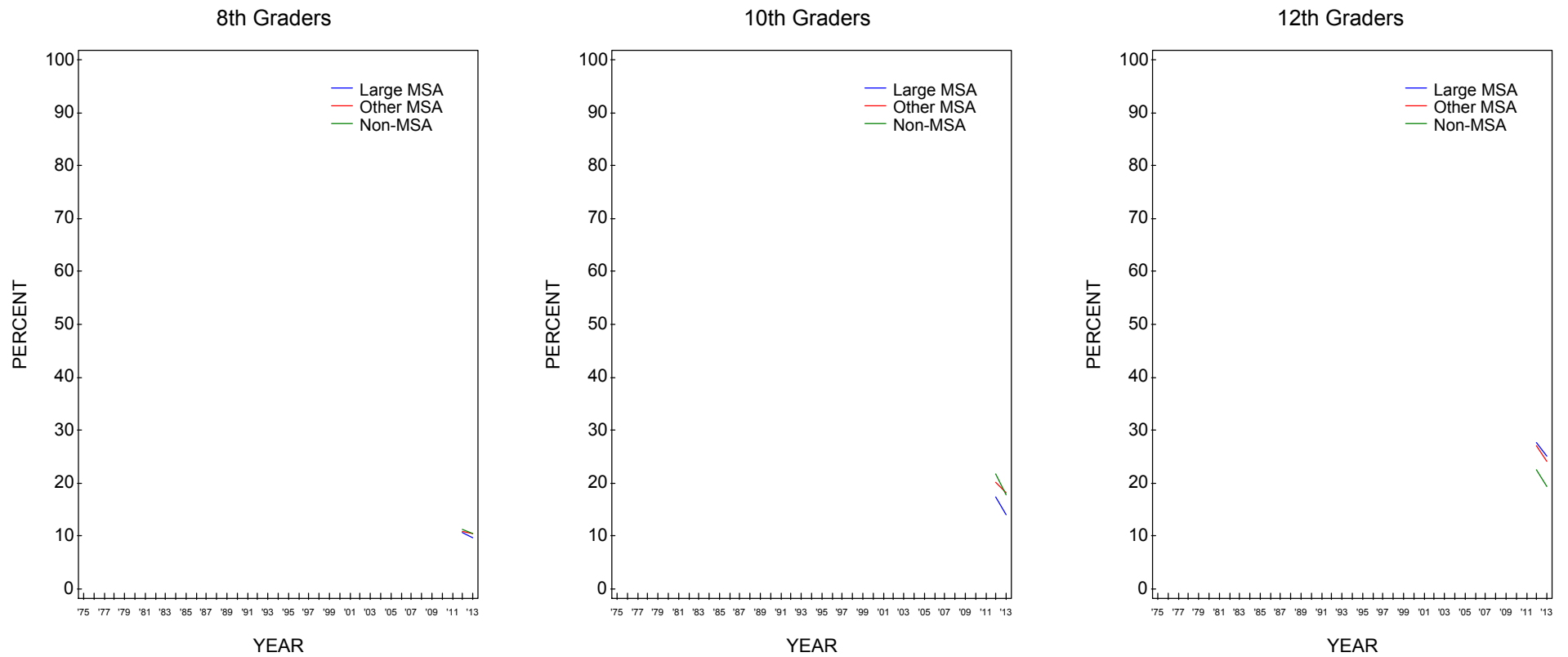
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 273**  
**Alcoholic Beverages containing Caffeine: Trends in Annual Prevalence by Region**



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

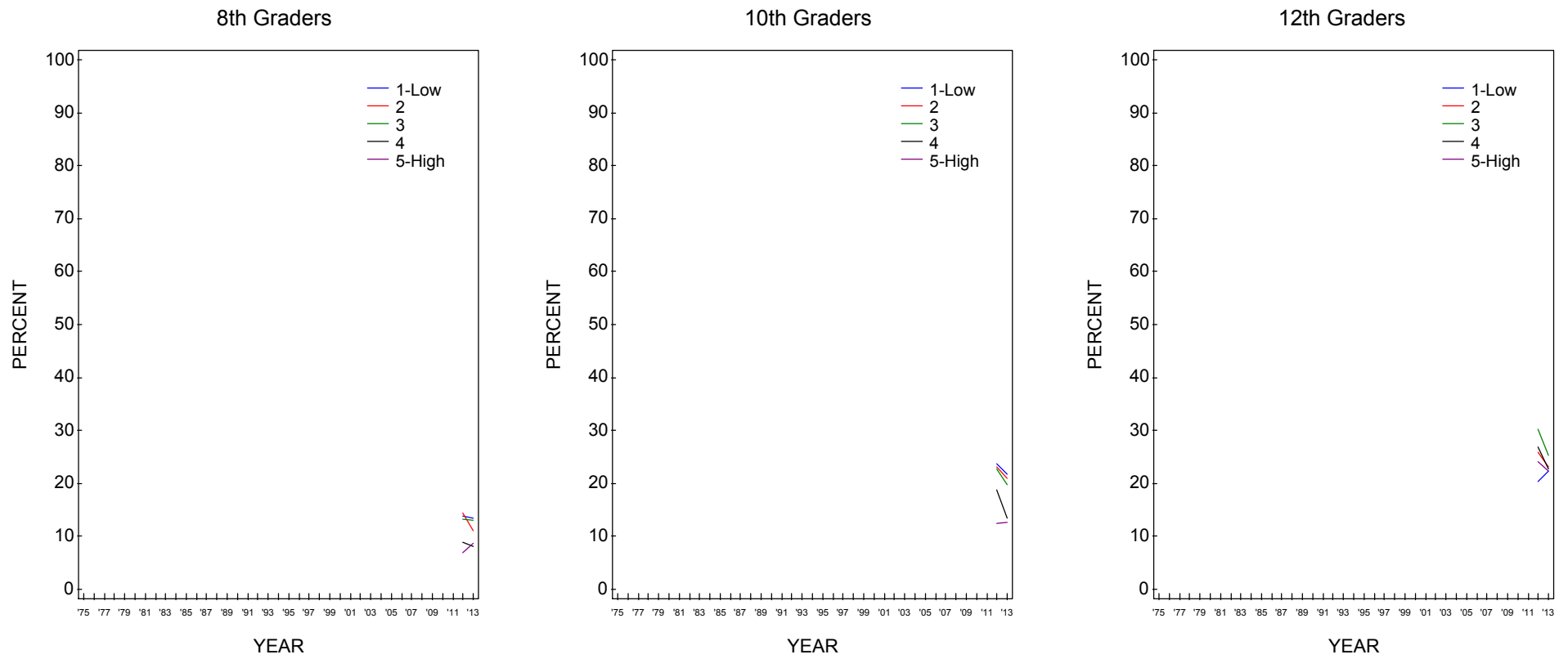
**FIGURE 274**  
**Alcoholic Beverages containing Caffeine: Trends in Annual Prevalence by Population Density**



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

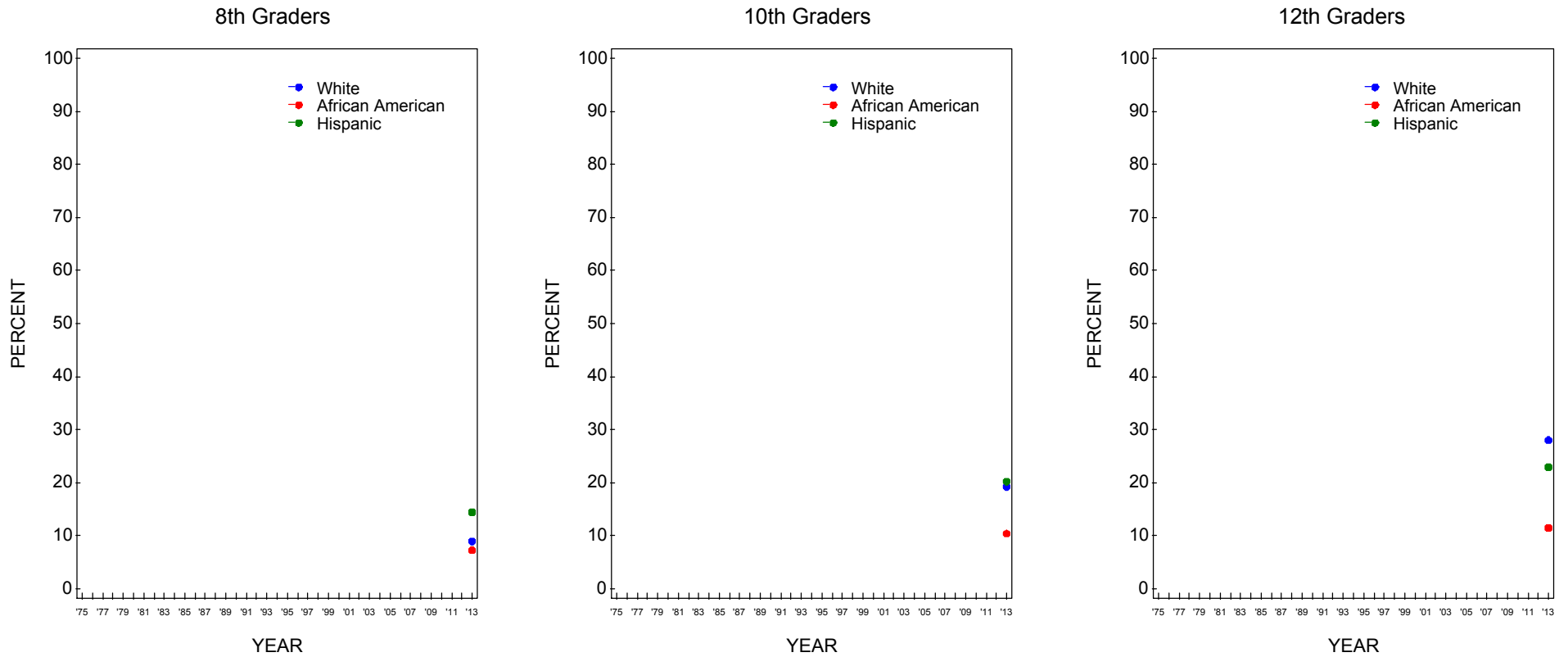
**FIGURE 275**

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



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

**FIGURE 276**  
**Alcoholic Beverages containing Caffeine: Trends in Annual Prevalence by Race/Ethnicity\***

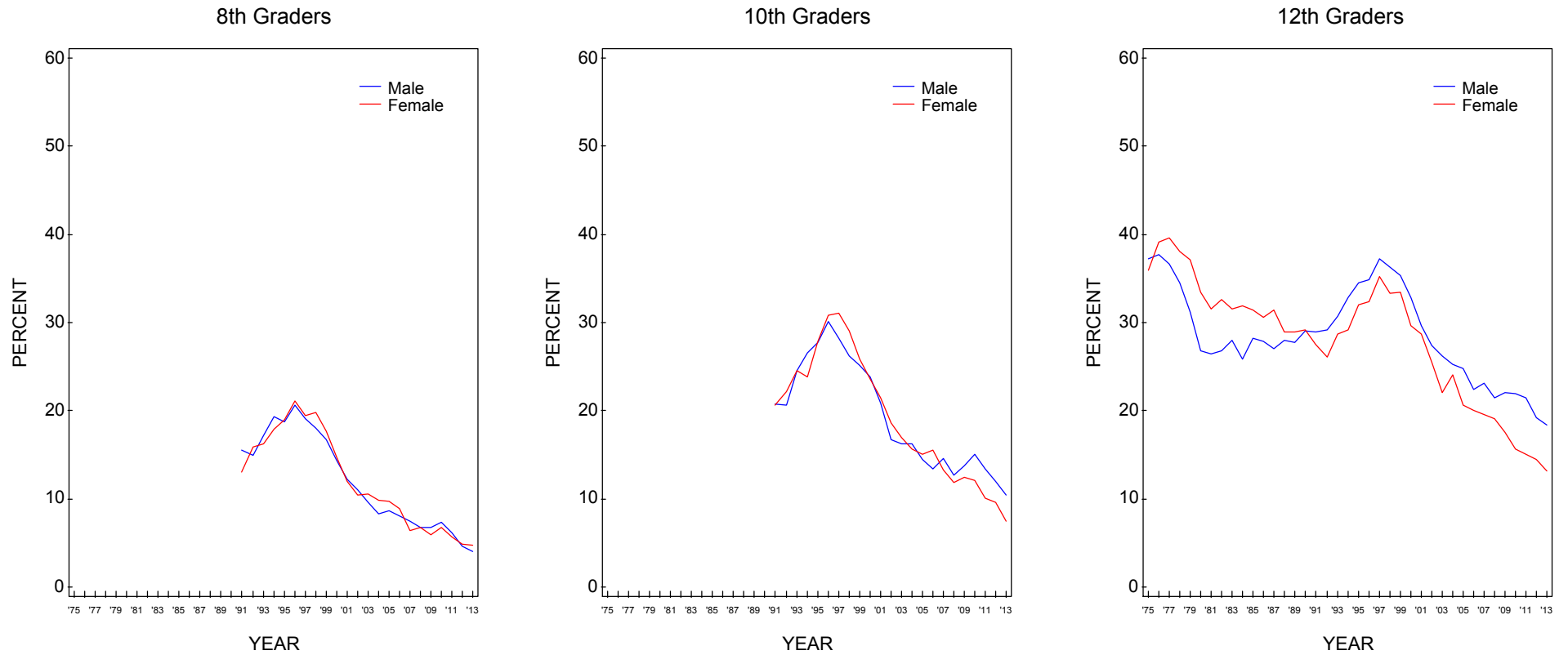


Source. The Monitoring the Future study, the University of Michigan.

\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

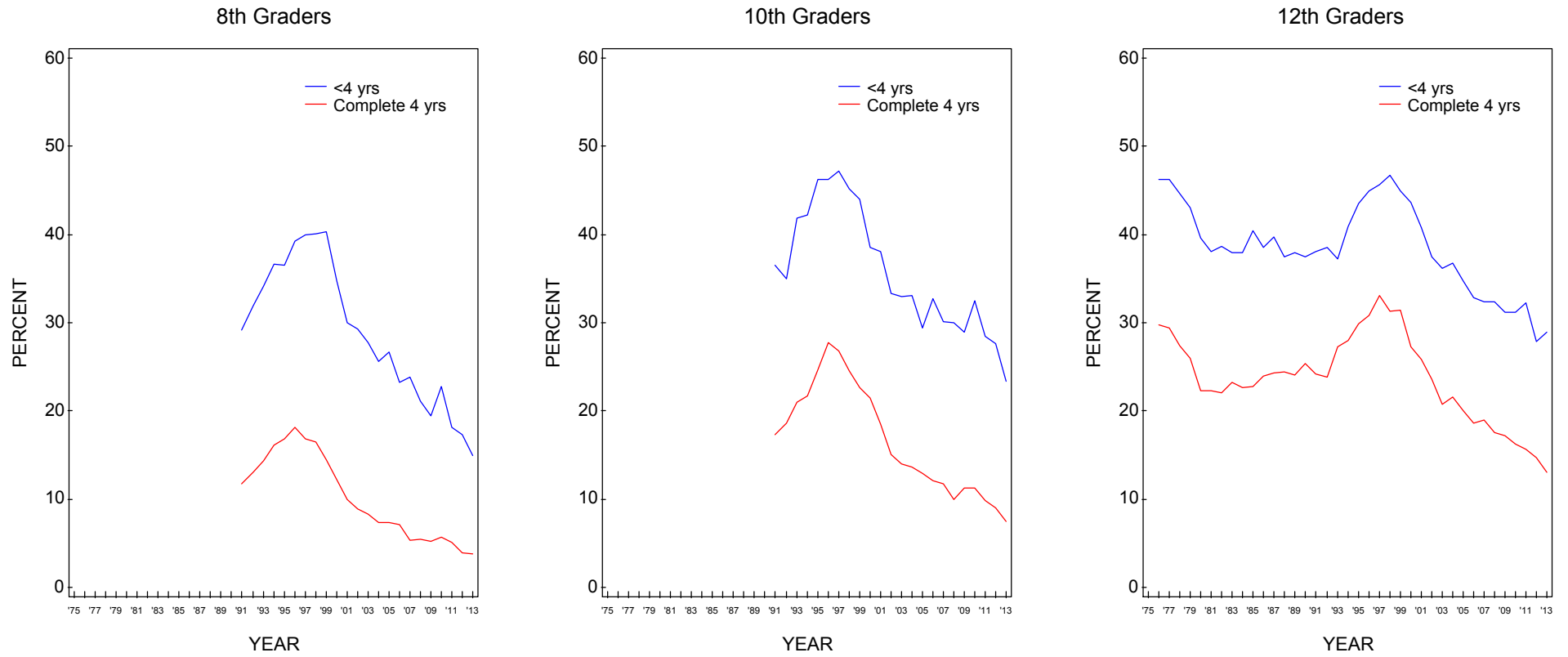


**FIGURE 277**  
**Cigarettes: Trends in 30-Day Prevalence by Gender**



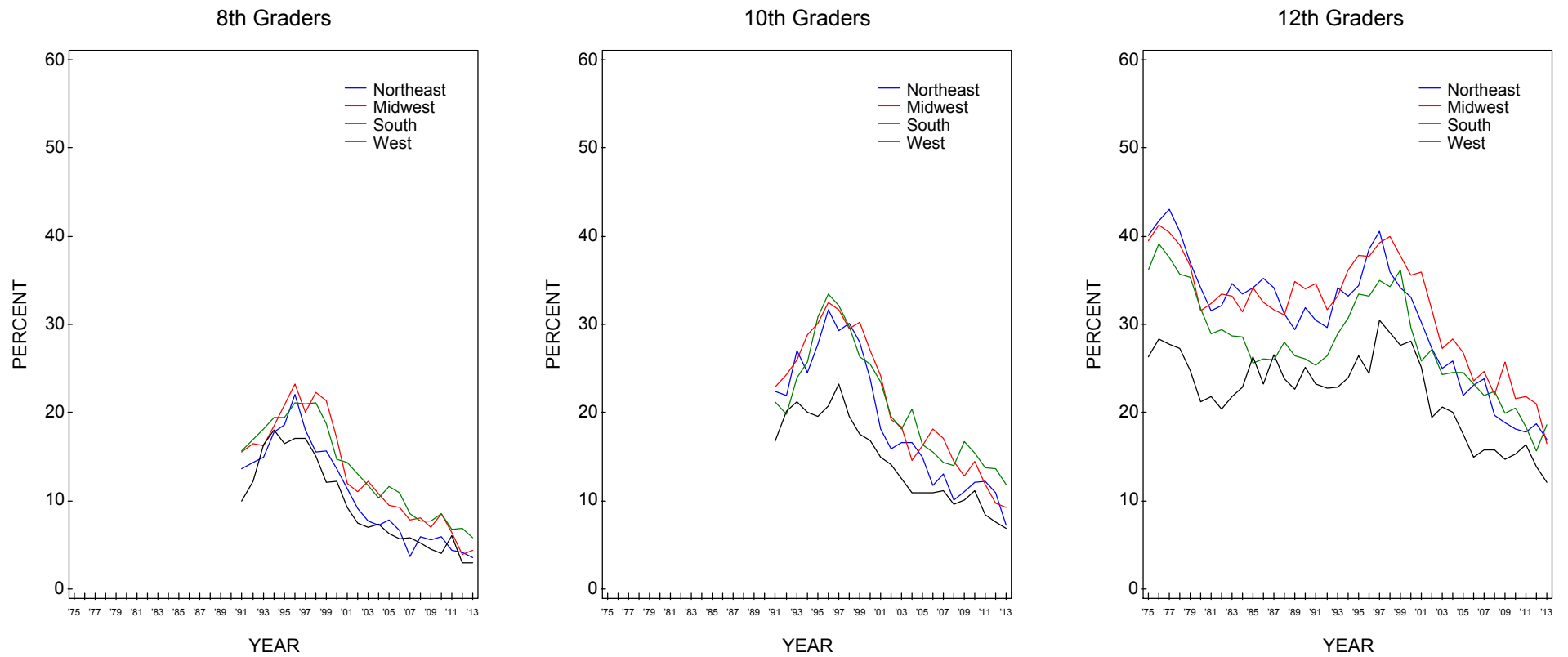
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 278**  
**Cigarettes: Trends in 30-Day Prevalence by College Plans**



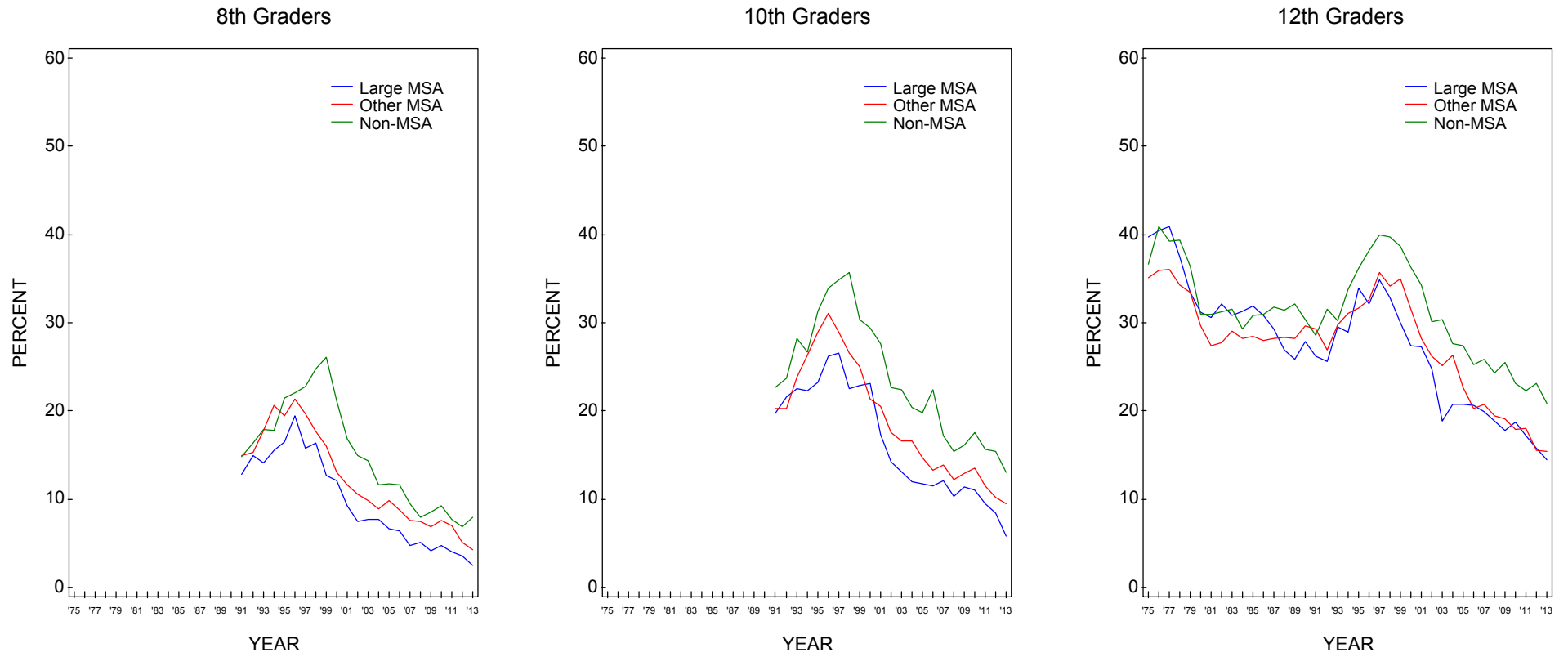
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 279**  
**Cigarettes: Trends in 30-Day Prevalence by Region**



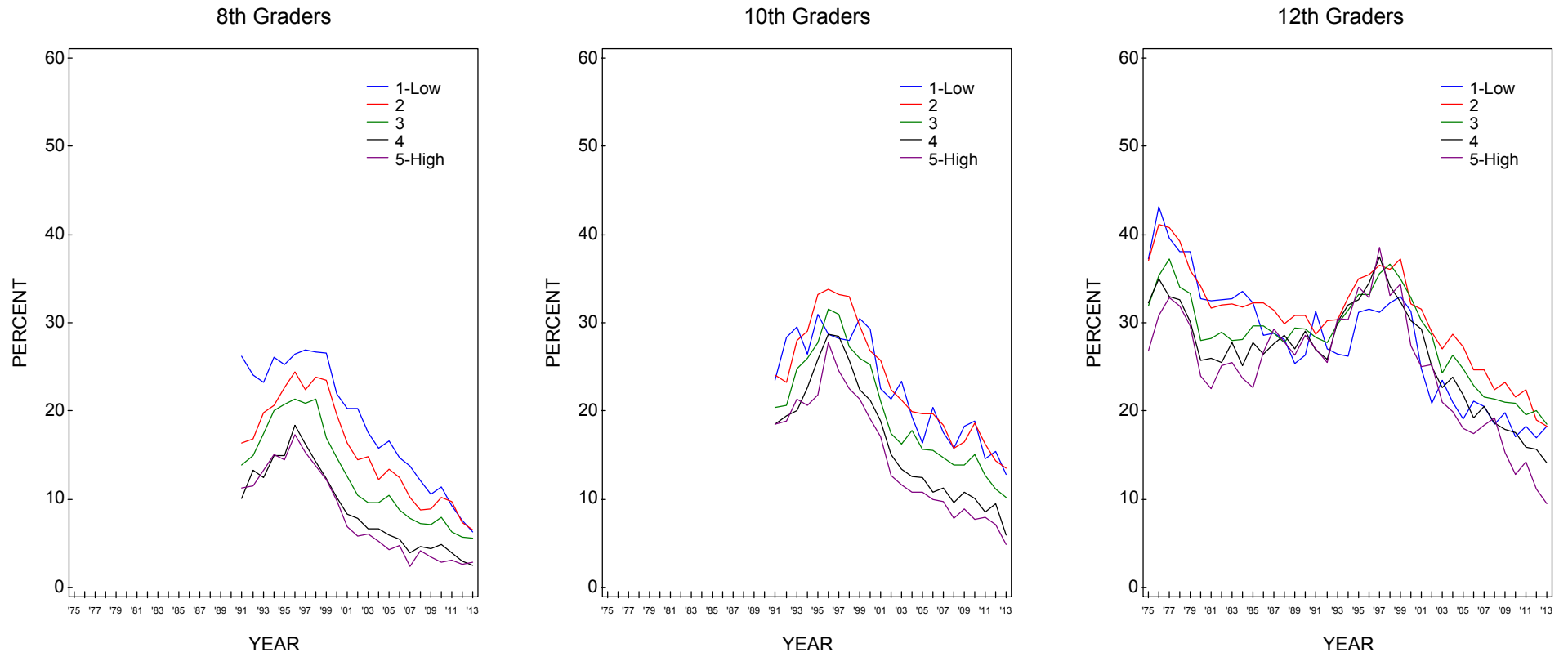
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 280**  
**Cigarettes: Trends in 30-Day Prevalence by Population Density**



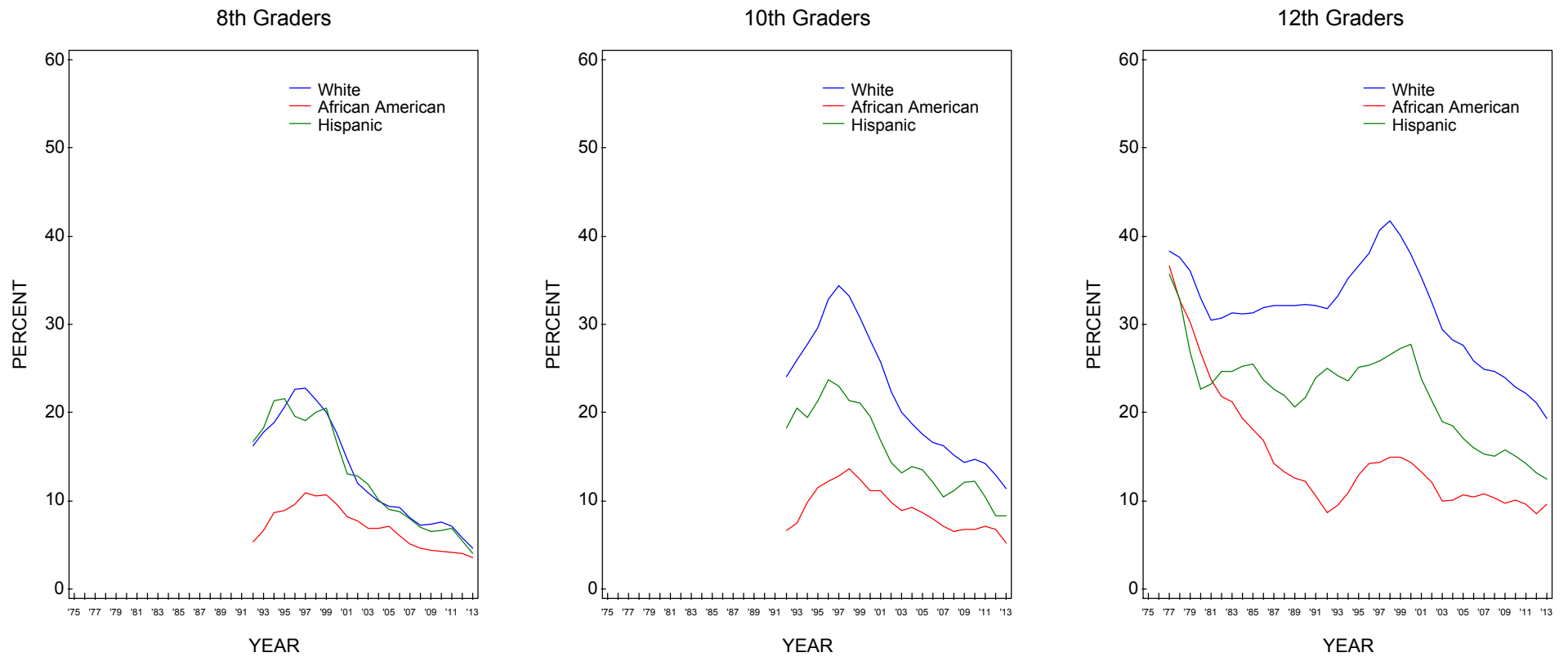
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 281**  
**Cigarettes: Trends in 30-Day Prevalence by Average Education Level of Parents**



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

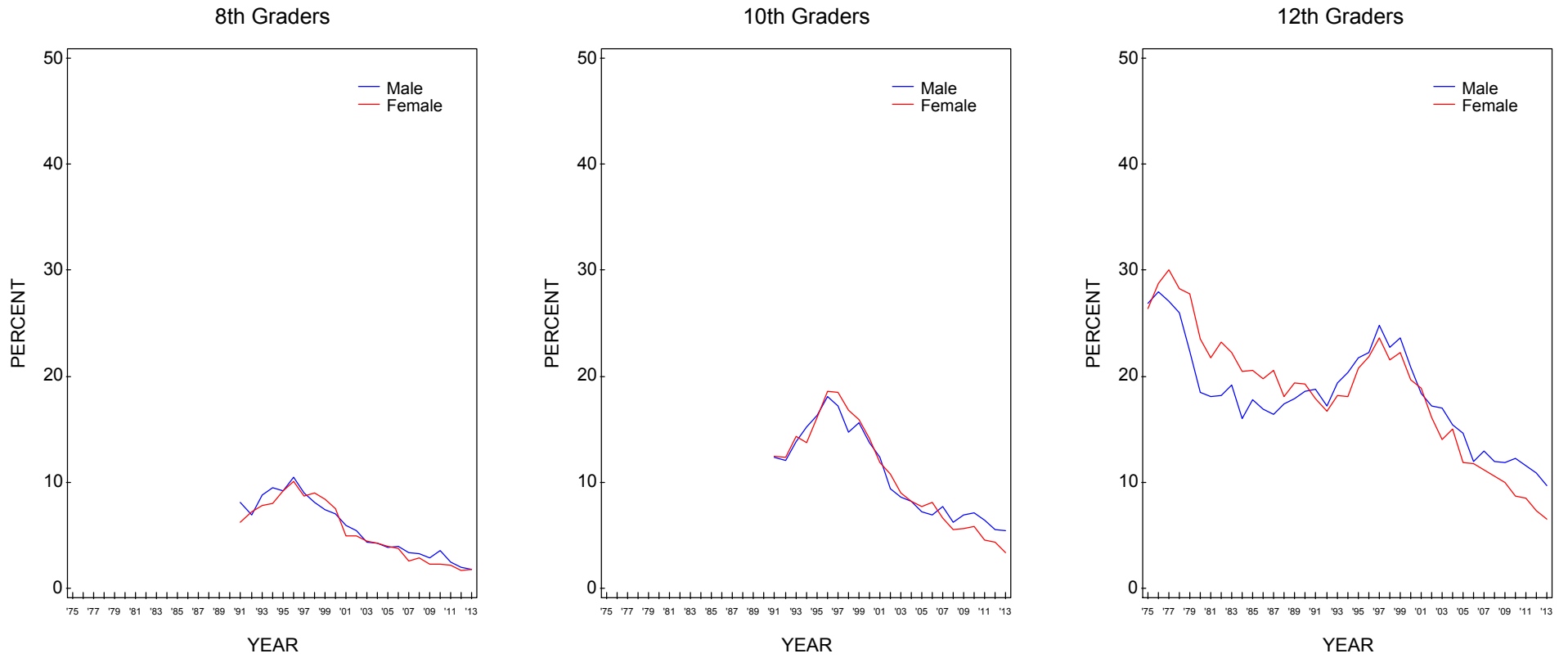
**FIGURE 282**  
**Cigarettes: Trends in 30-Day Prevalence by Race/Ethnicity\***



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

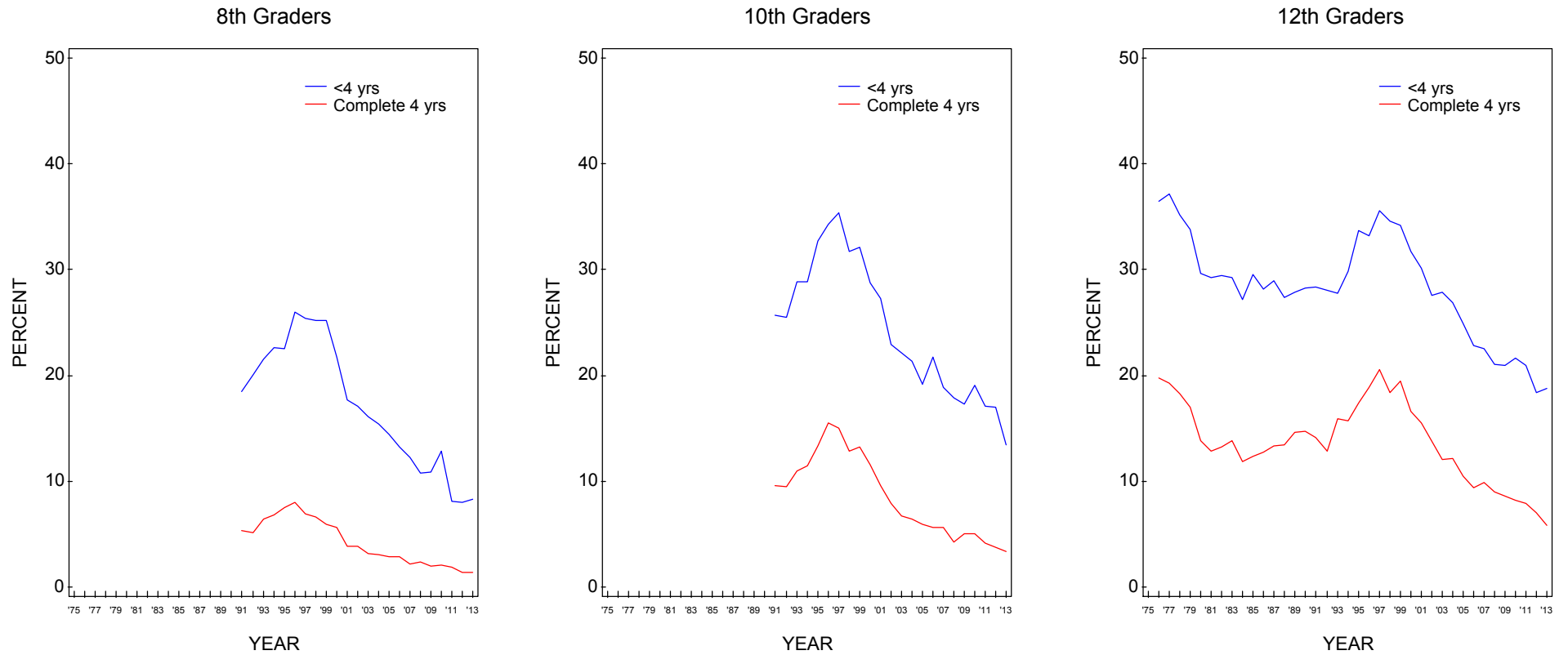
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 283**  
**Cigarettes: Trends in 30-Day Prevalence of Daily Use by Gender**



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

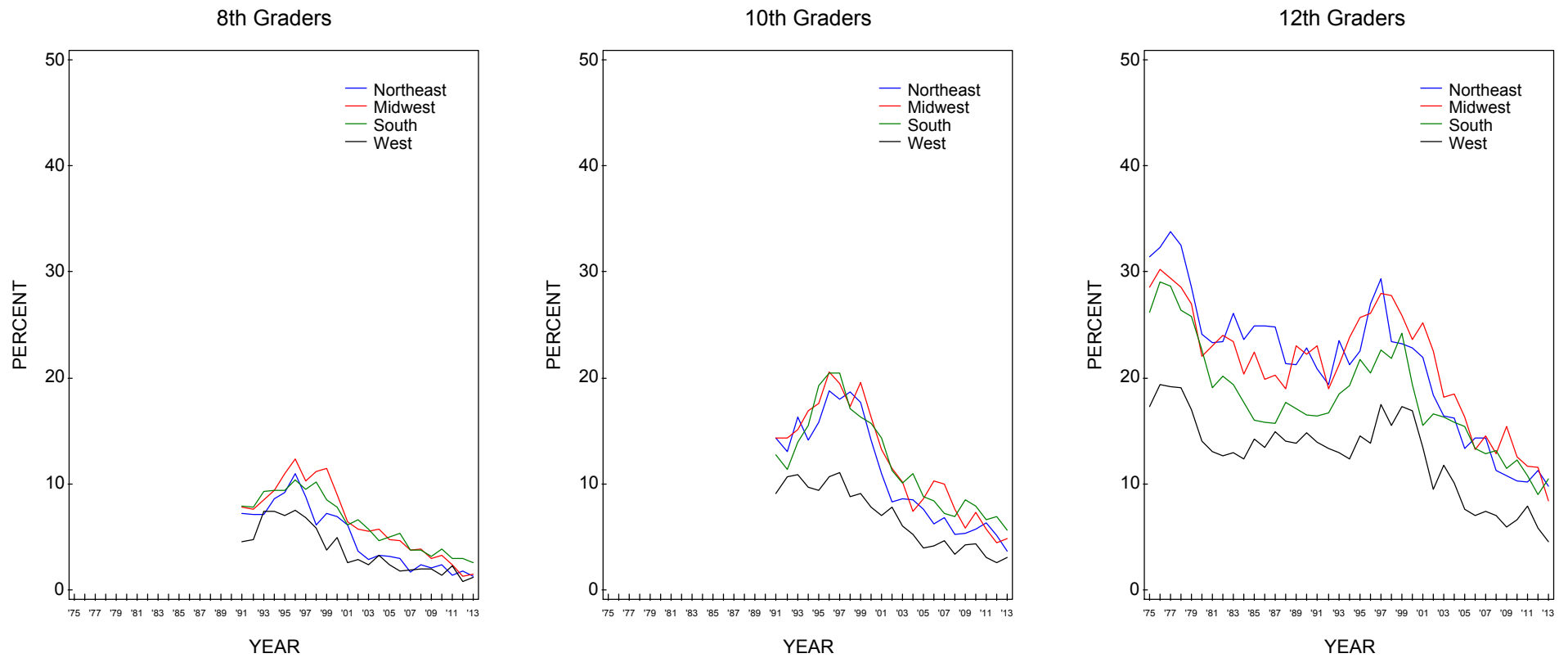
**FIGURE 284**  
**Cigarettes: Trends in 30-Day Prevalence of Daily Use by College Plans**



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

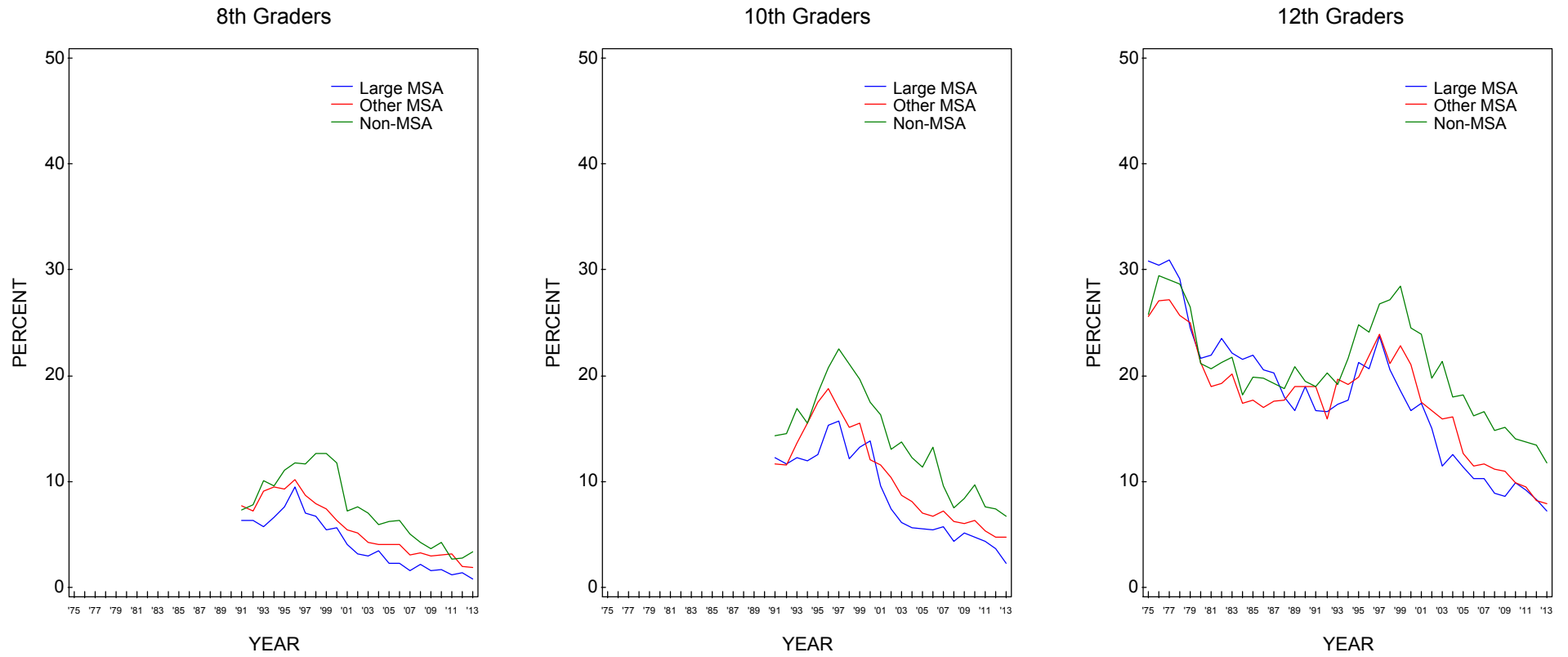


**FIGURE 285**  
**Cigarettes: Trends in 30-Day Prevalence of Daily Use by Region**



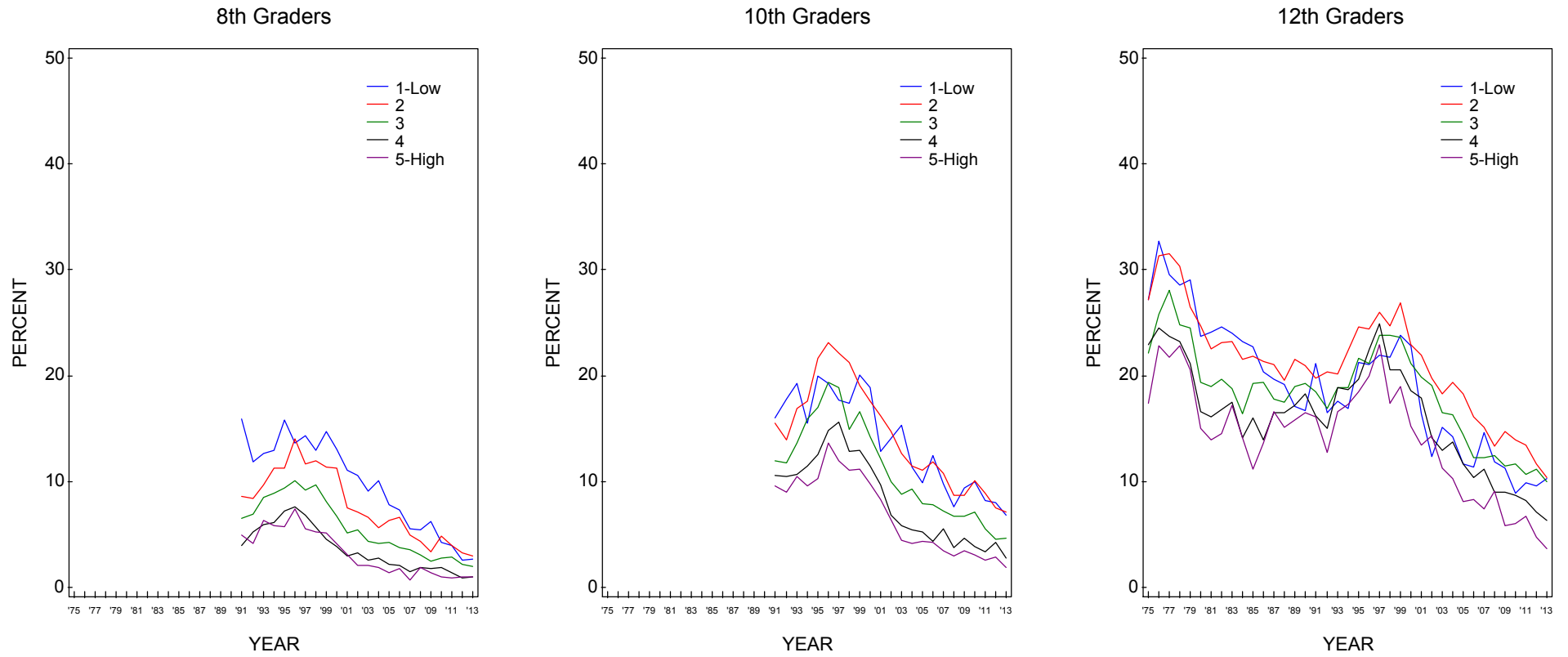
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 286**  
**Cigarettes: Trends in 30-Day Prevalence of Daily Use by Population Density**



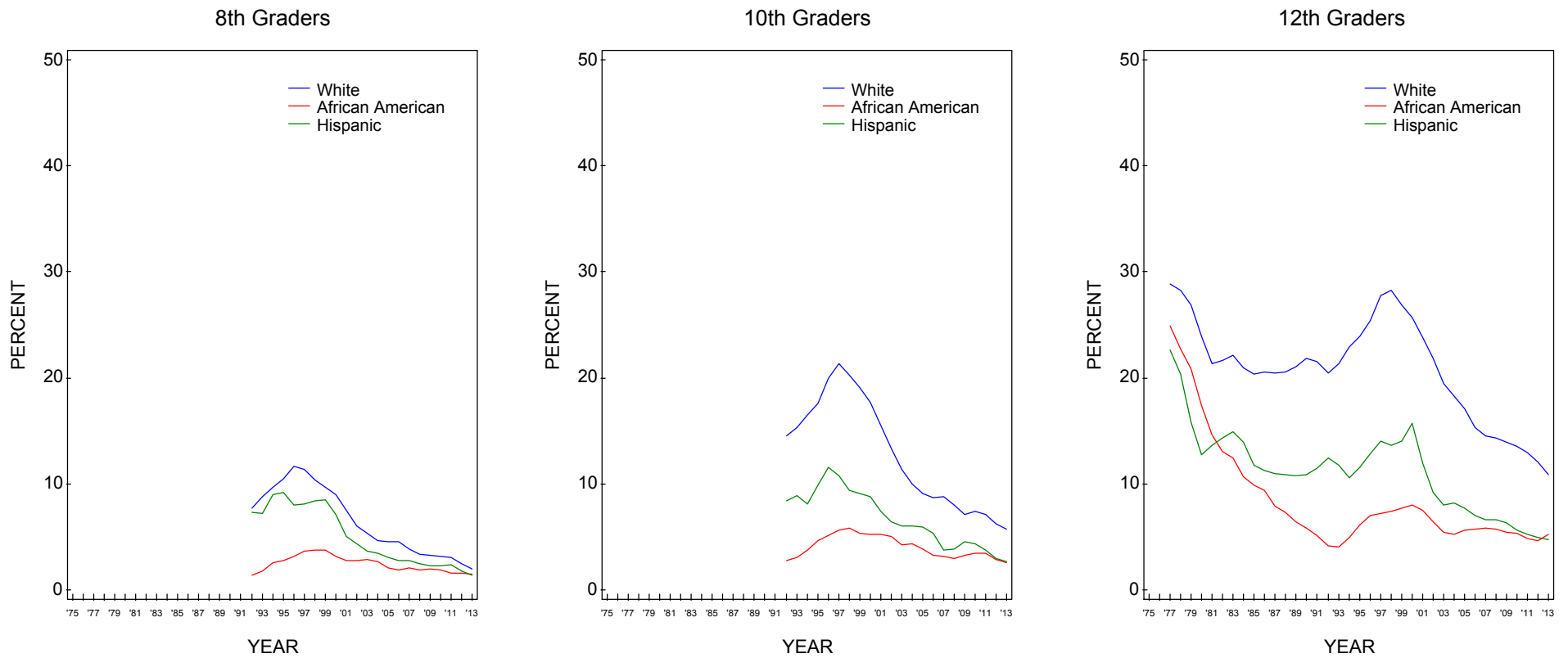
Source. The Monitoring the Future study, the University of Michigan.

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



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

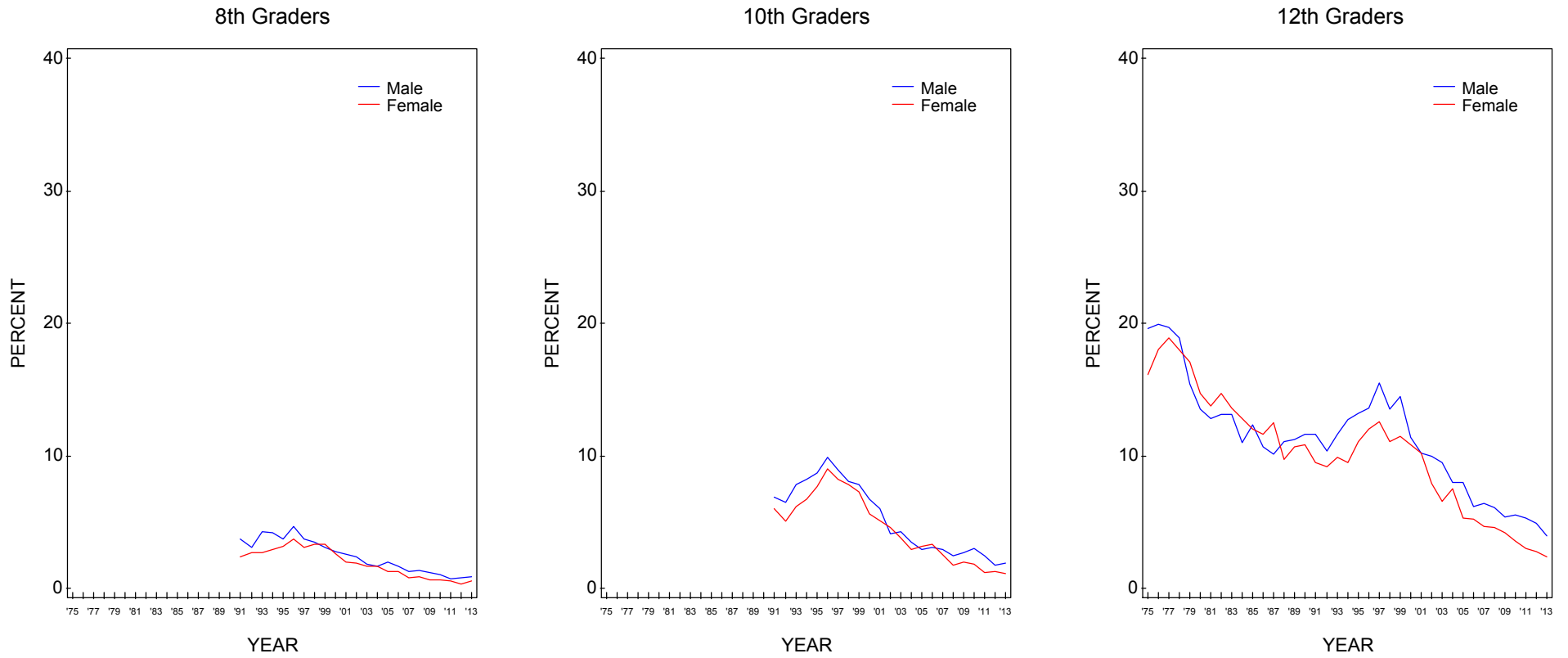
**FIGURE 288**  
**Cigarettes: Trends in 30-Day Prevalence of Daily Use by Race/Ethnicity\***



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

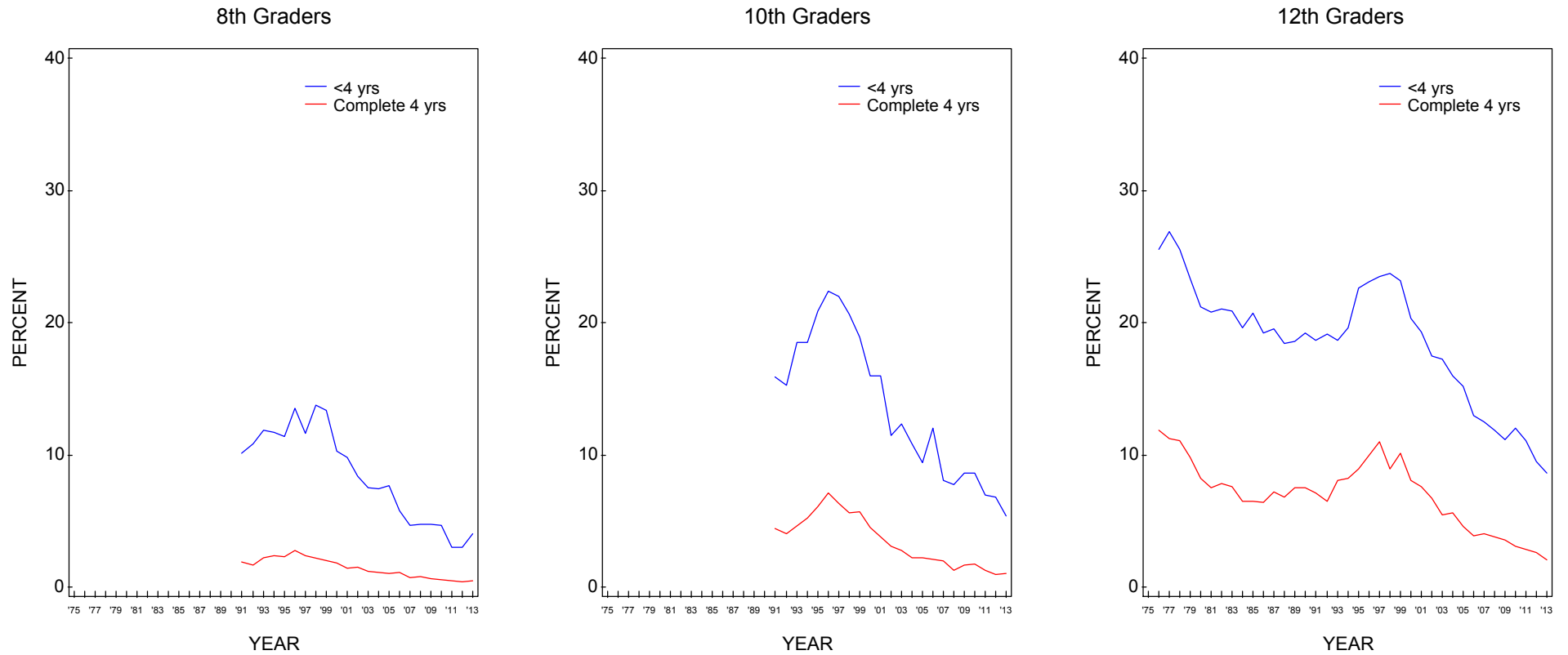
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 289**  
**Cigarettes: Trends in Prevalence of Use of Half Pack a Day or More by Gender**



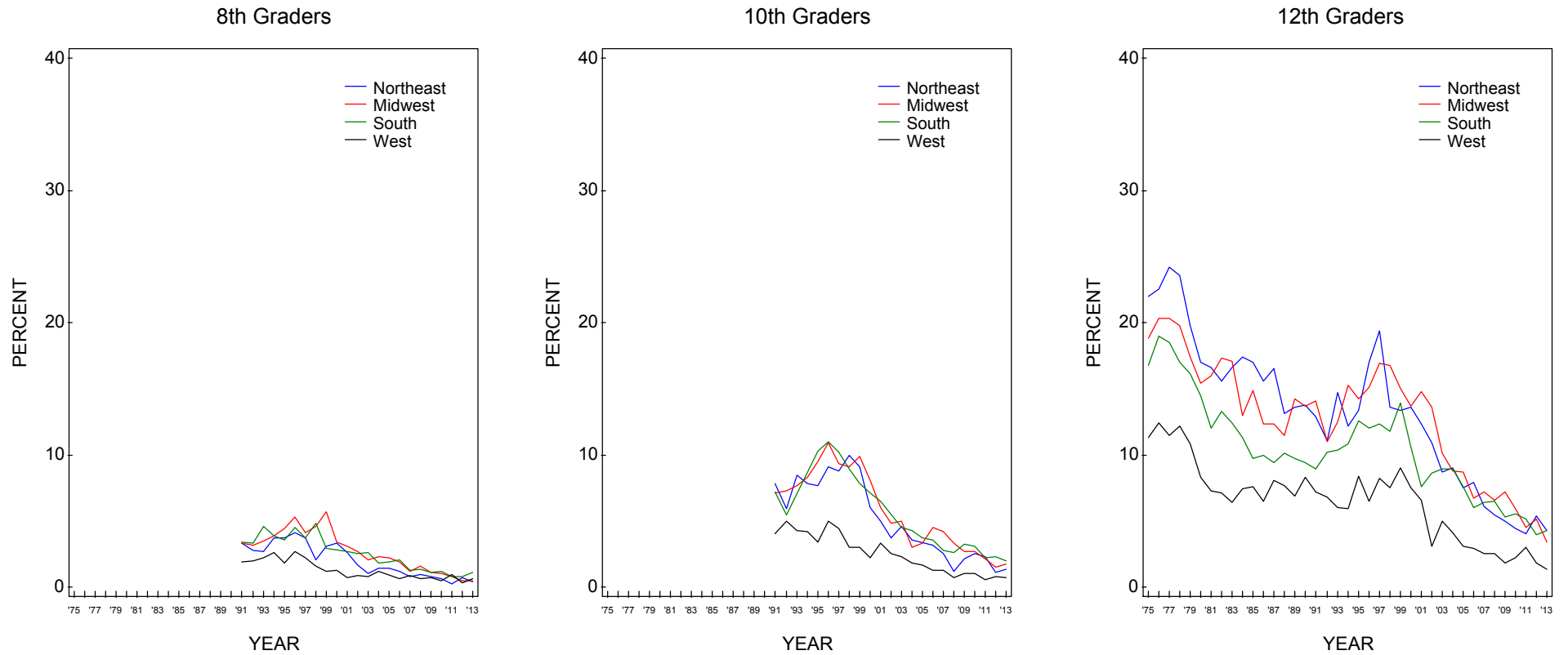
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 290**  
**Cigarettes: Trends in Prevalence of Use of Half Pack a Day or More by College Plans**



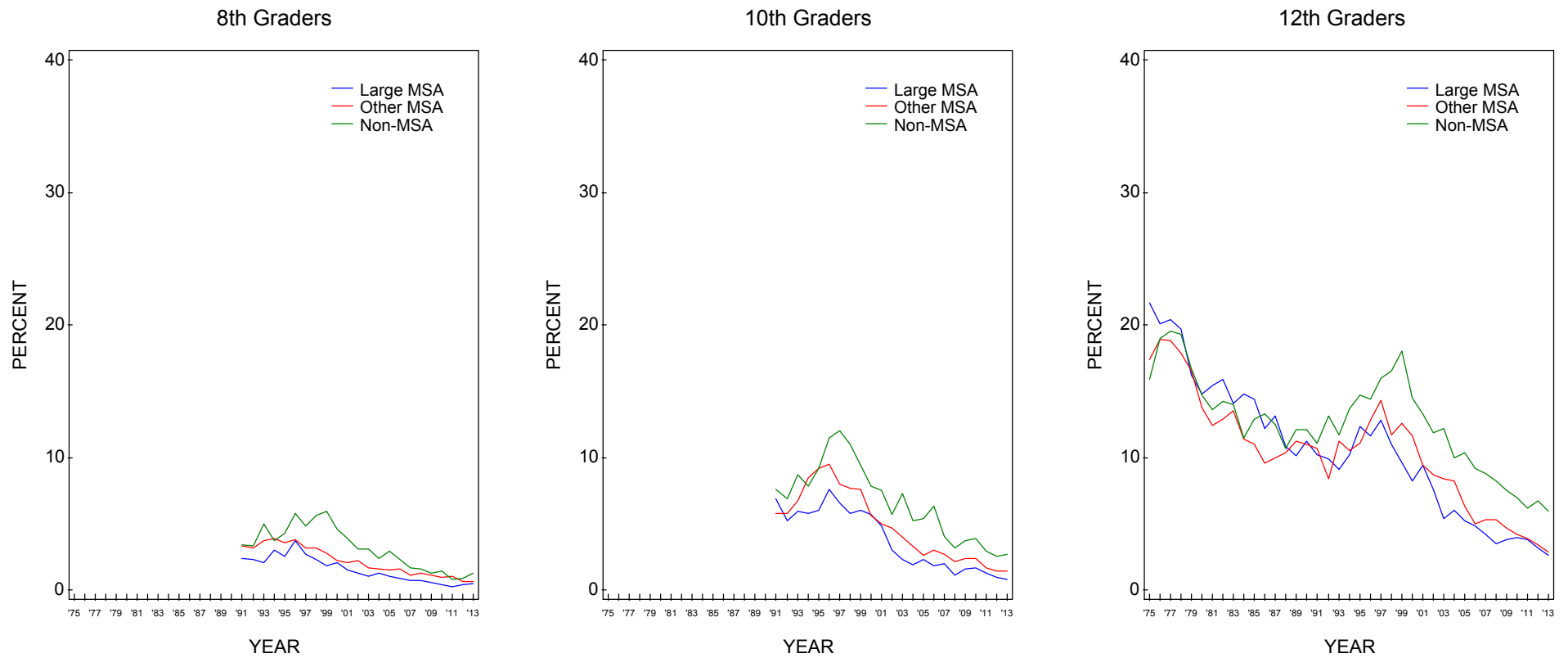
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 291**  
**Cigarettes: Trends in Prevalence of Use of Half Pack a Day or More by Region**



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

**FIGURE 292**  
**Cigarettes: Trends in Prevalence of Use of Half Pack a Day or More by Population Density**

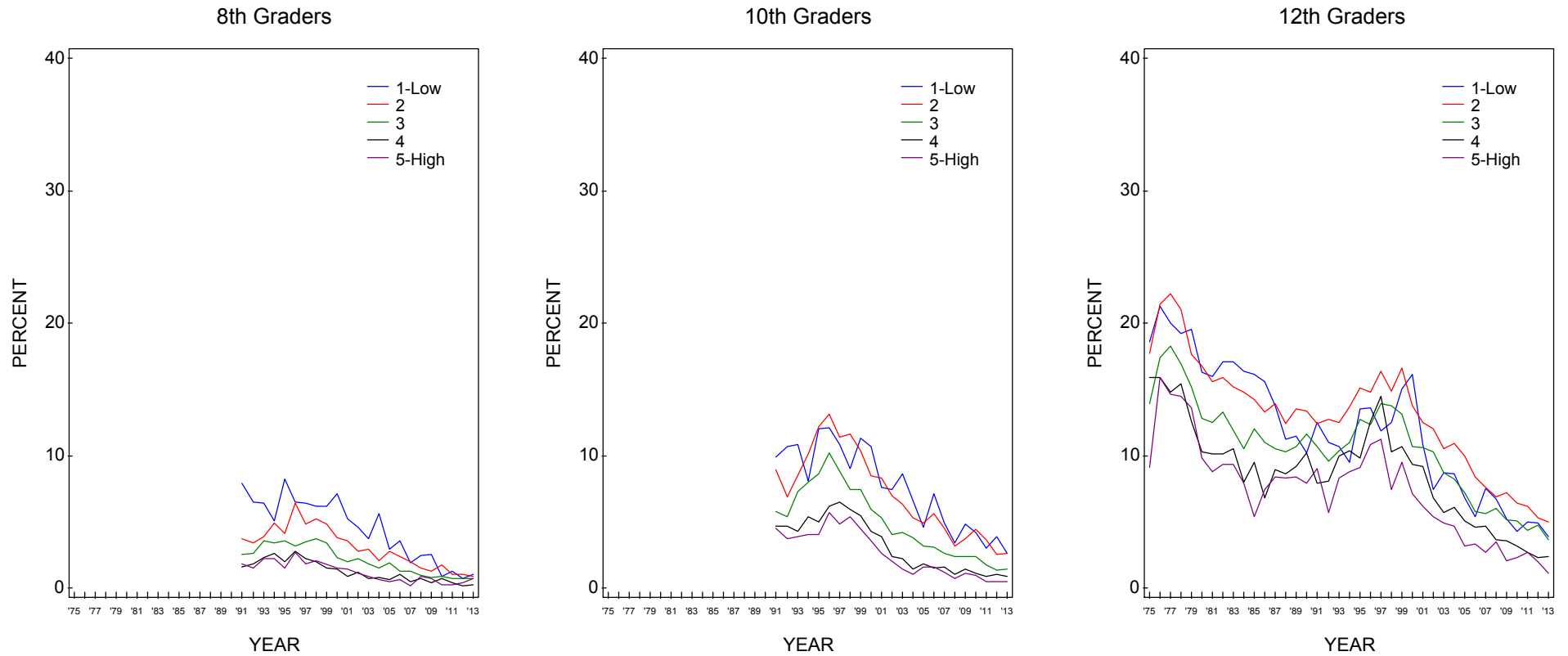


Source. The Monitoring the Future study, the University of Michigan.



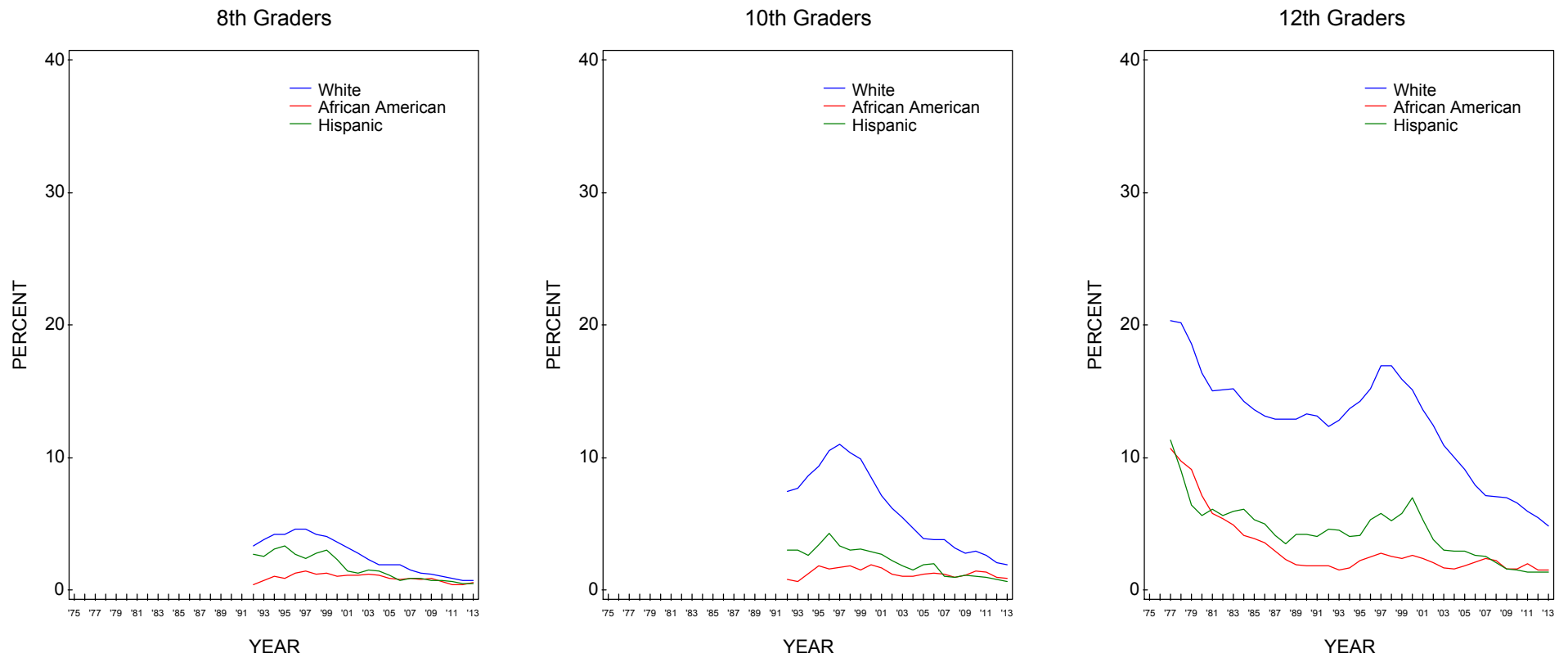
**FIGURE 293**

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



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

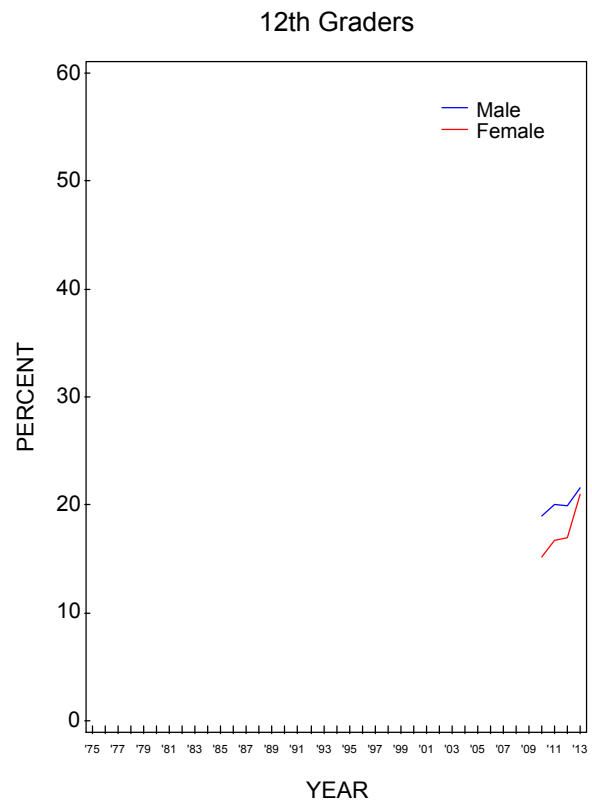
**FIGURE 294**  
**Cigarettes: Trends in Prevalence of Use of Half Pack a Day or More by Race/Ethnicity\***



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

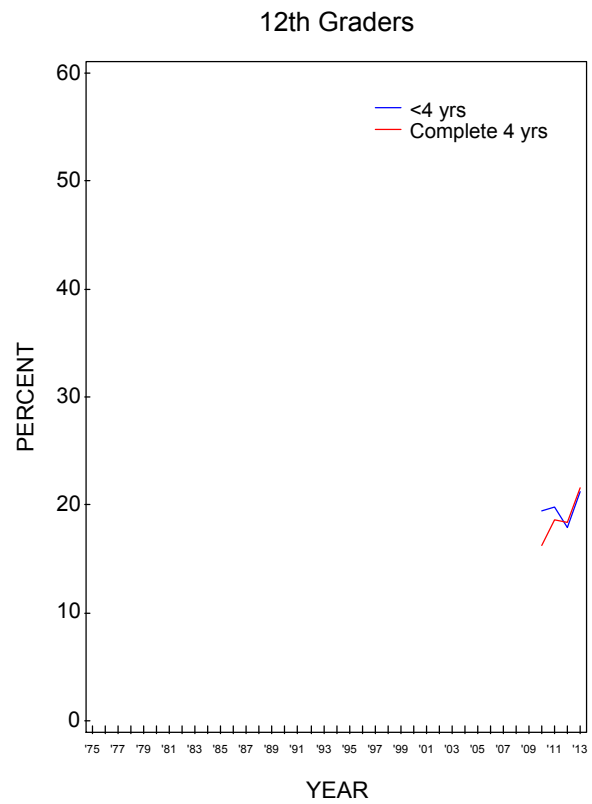
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 295**  
**Tobacco using a Hookah: Trends in Annual Prevalence by Gender**



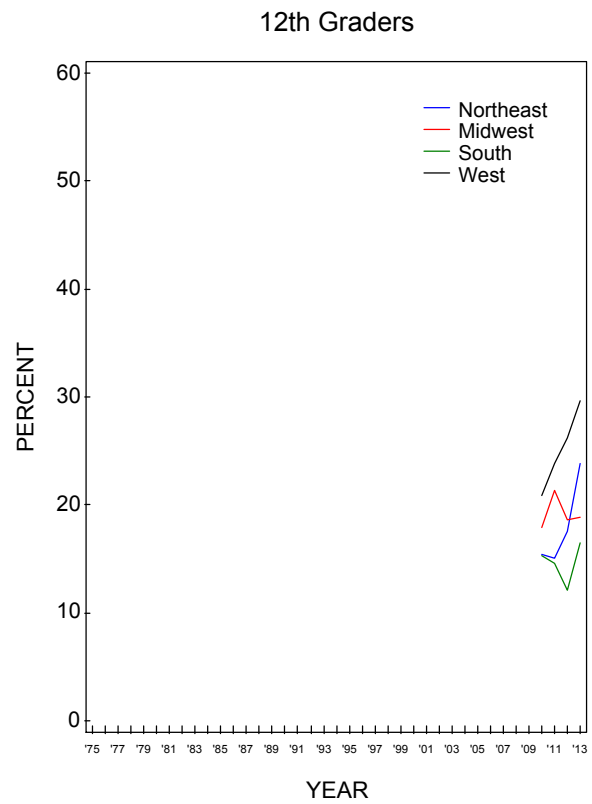
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 296**  
**Tobacco using a Hookah: Trends in Annual Prevalence by College Plans**



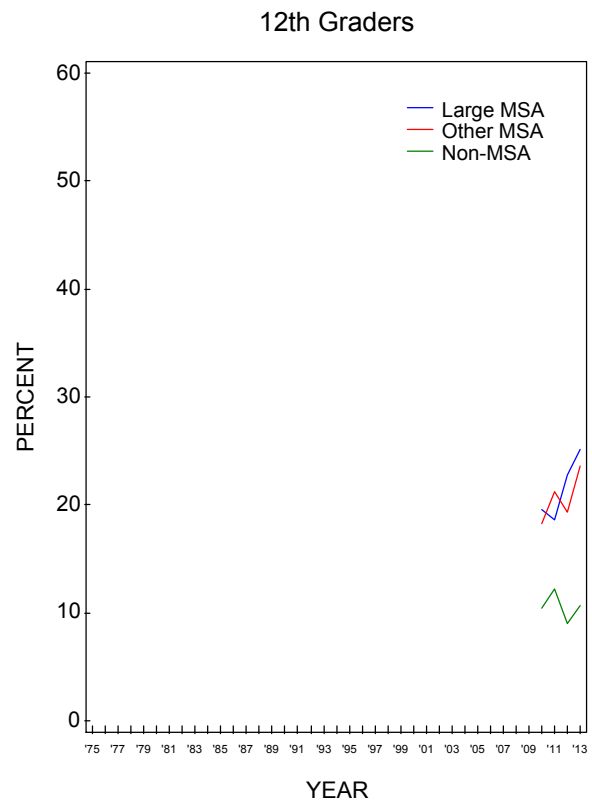
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 297**  
**Tobacco using a Hookah: Trends in Annual Prevalence by Region**



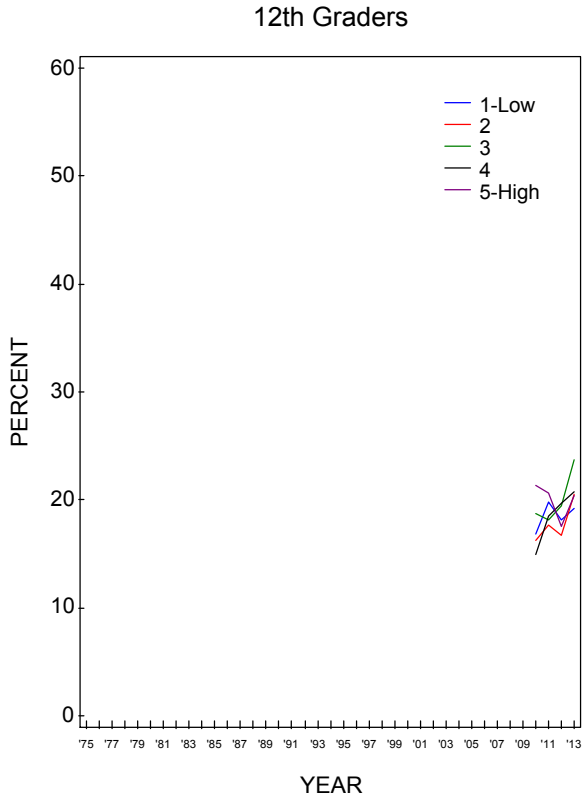
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 298**  
**Tobacco using a Hookah: Trends in Annual Prevalence by Population Density**



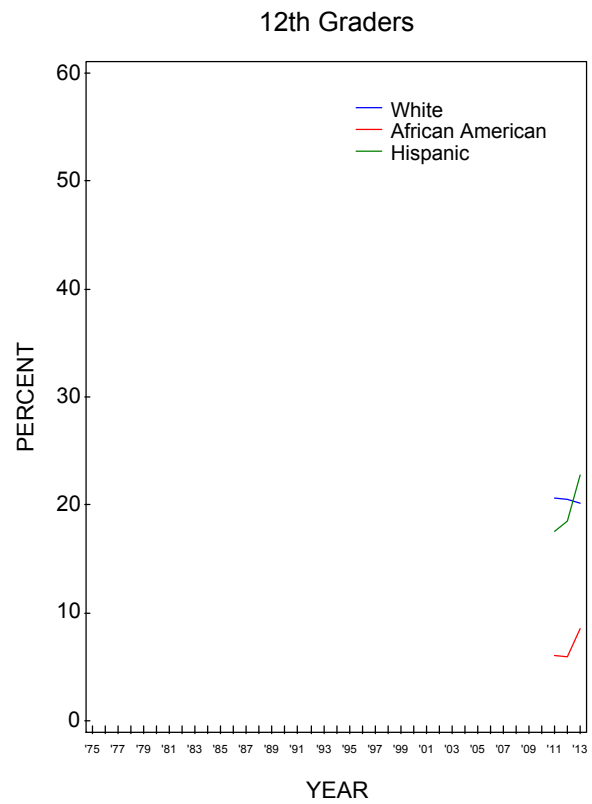
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 299**  
**Tobacco using a Hookah: Trends in Annual Prevalence by Average Education Level of Parents**



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

**FIGURE 300**  
**Tobacco using a Hookah: Trends in Annual Prevalence by Race/Ethnicity\***

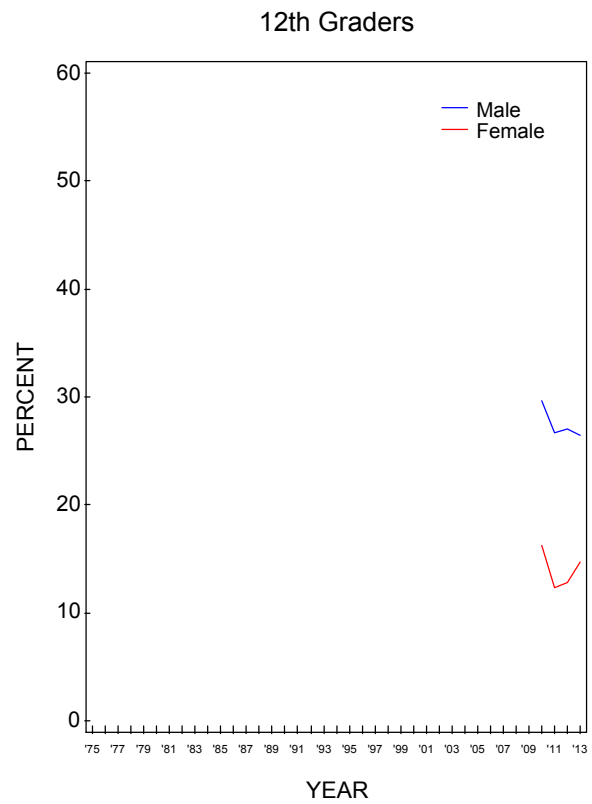


Source. The Monitoring the Future study, the University of Michigan.

\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

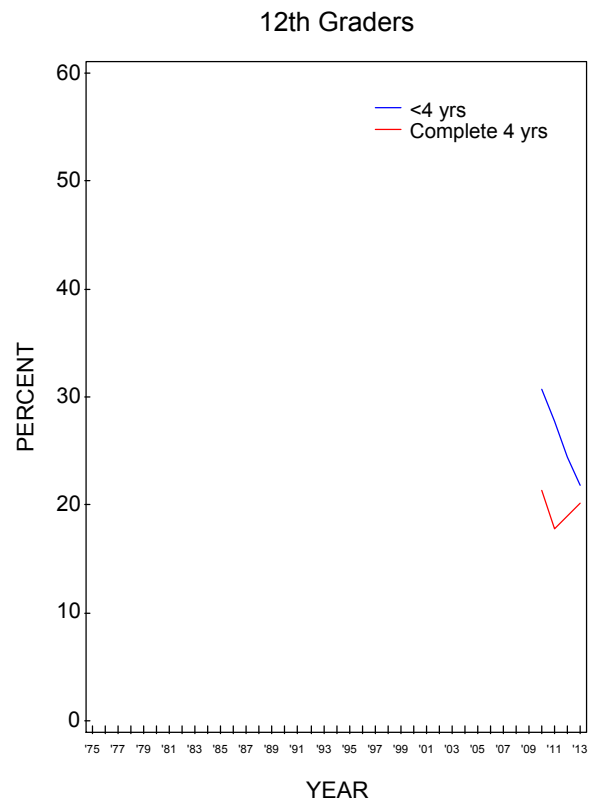


**FIGURE 301**  
**Small Cigars: Trends in Annual Prevalence by Gender**



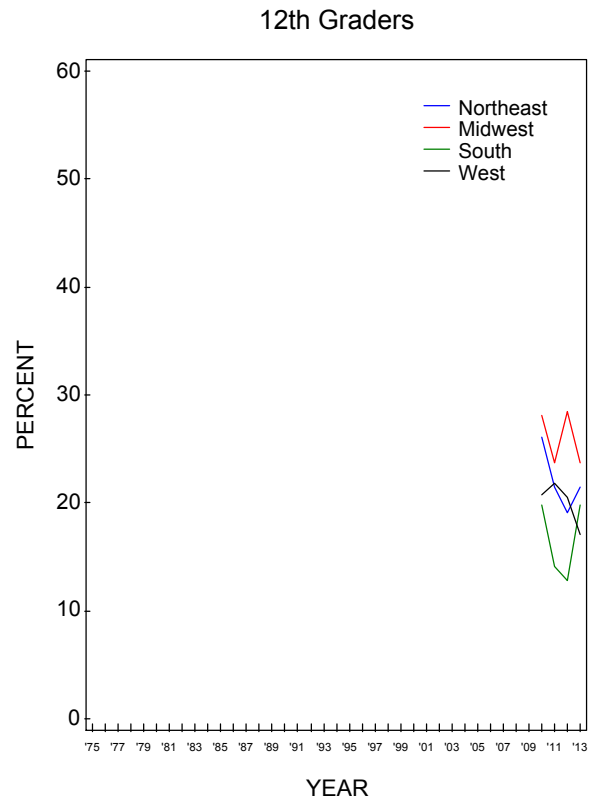
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 302**  
**Small Cigars: Trends in Annual Prevalence by College Plans**



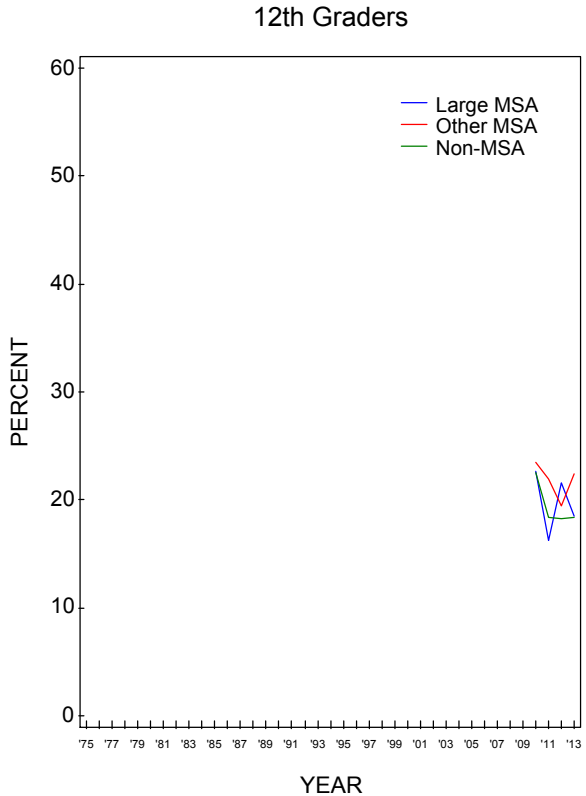
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 303**  
**Small Cigars: Trends in Annual Prevalence by Region**



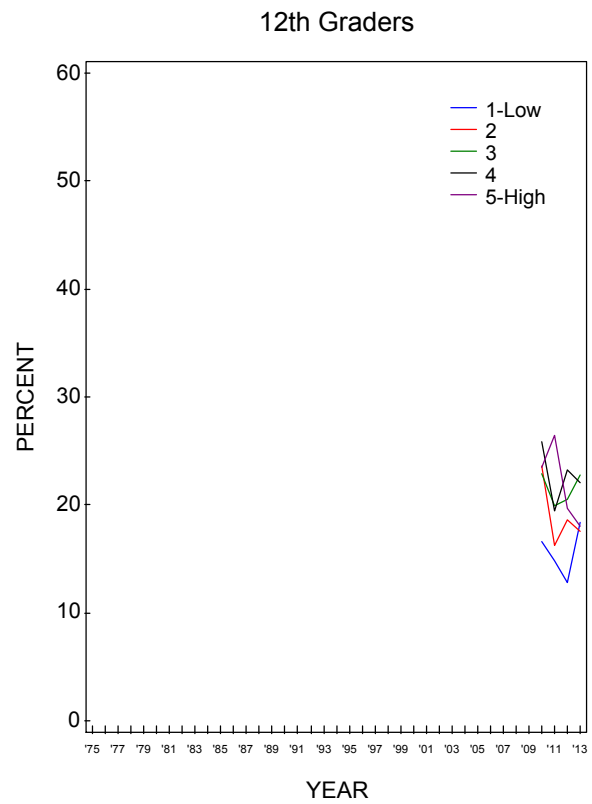
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 304**  
**Small Cigars: Trends in Annual Prevalence by Population Density**



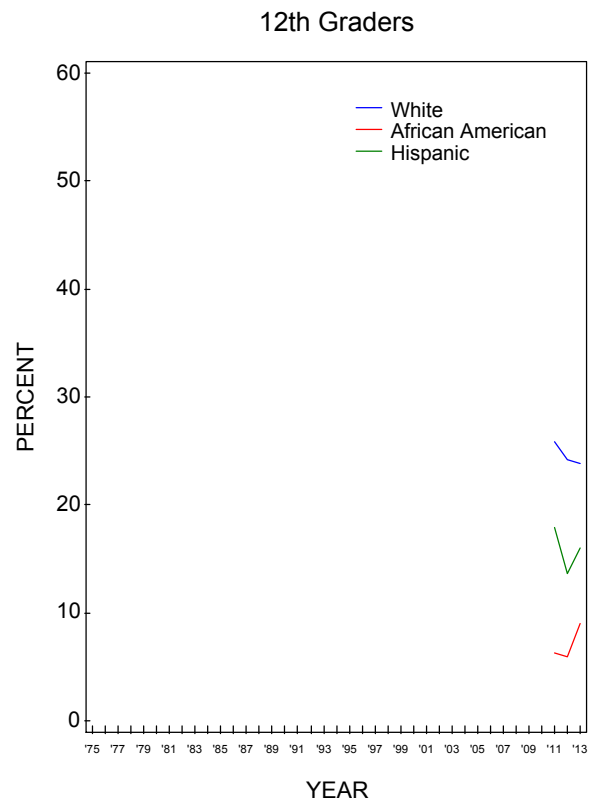
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 305**  
**Small Cigars: Trends in Annual Prevalence by Average Education Level of Parents**



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

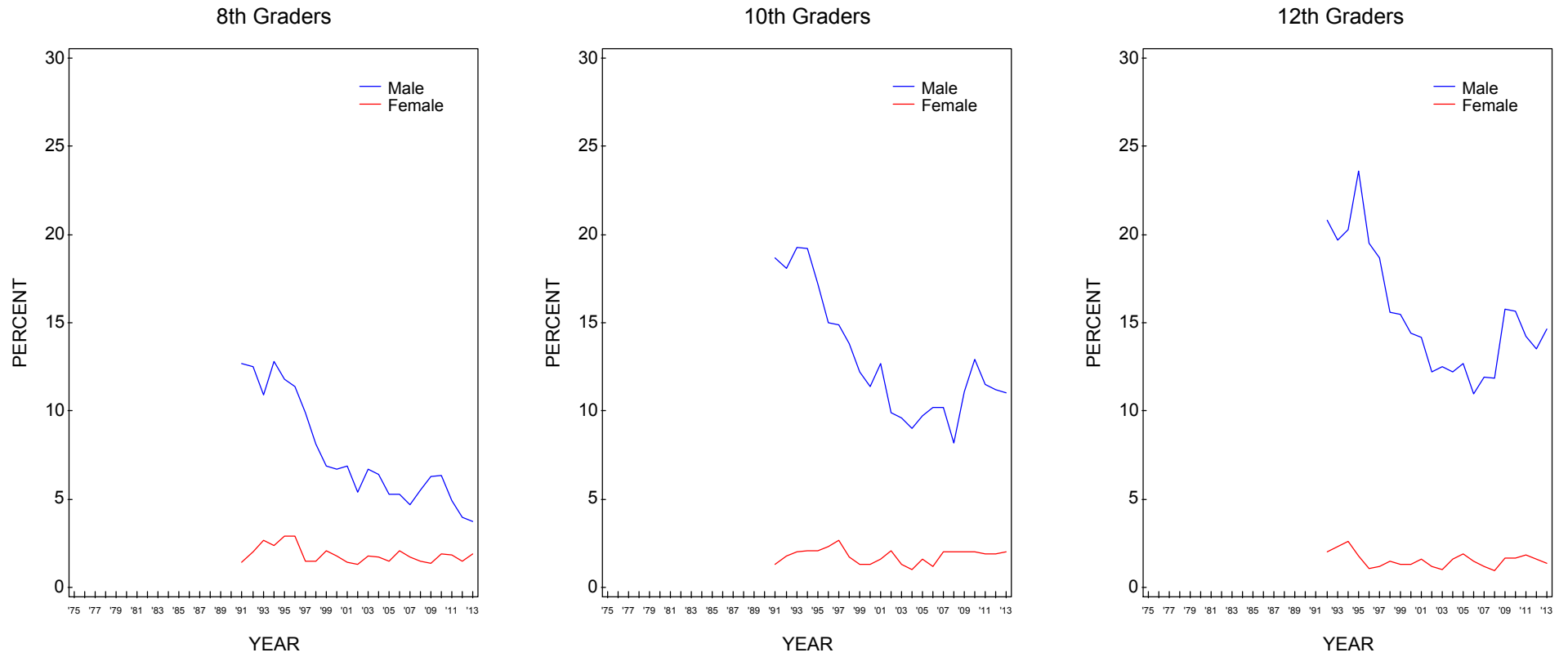
**FIGURE 306**  
**Small Cigars: Trends in Annual Prevalence by Race/Ethnicity\***



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

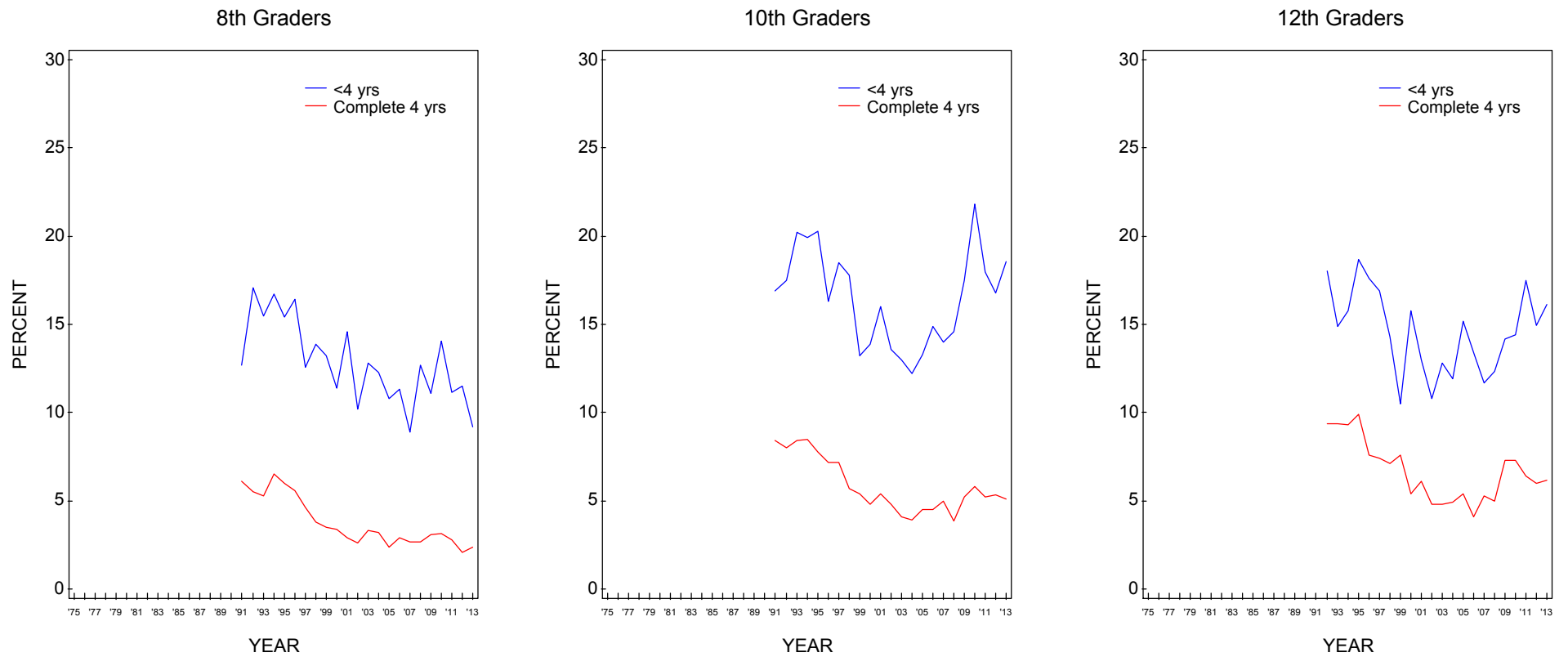
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

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



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

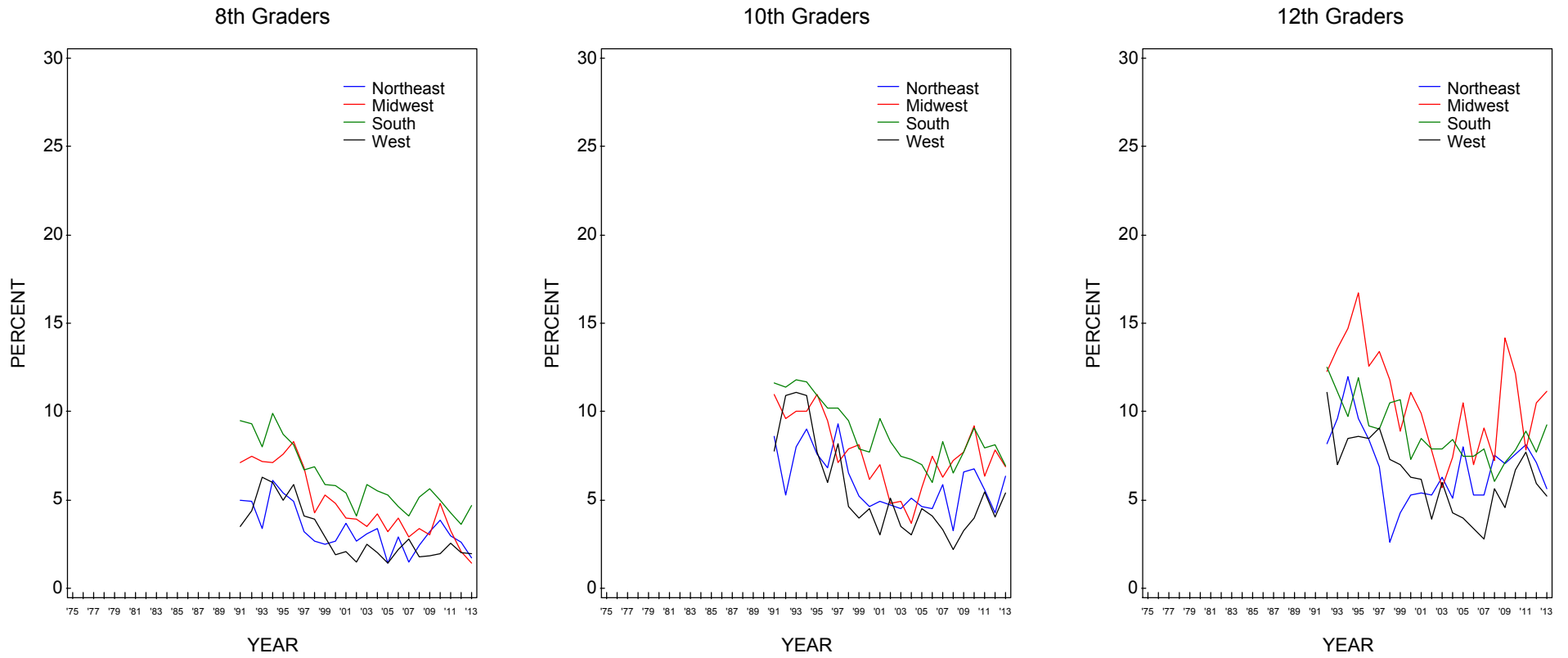
**FIGURE 308**  
**Smokeless Tobacco: Trends in 30-Day Prevalence by College Plans**



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

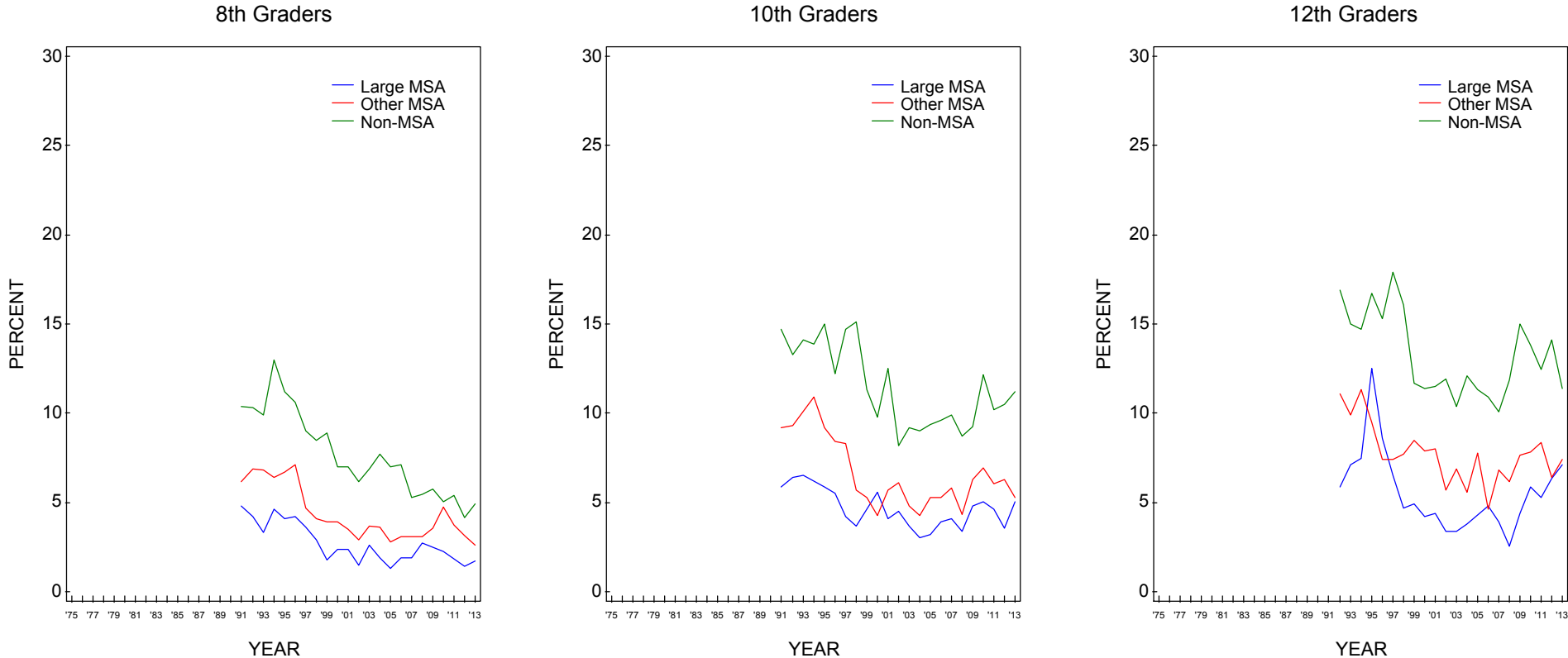


**FIGURE 309**  
**Smokeless Tobacco: Trends in 30-Day Prevalence by Region**



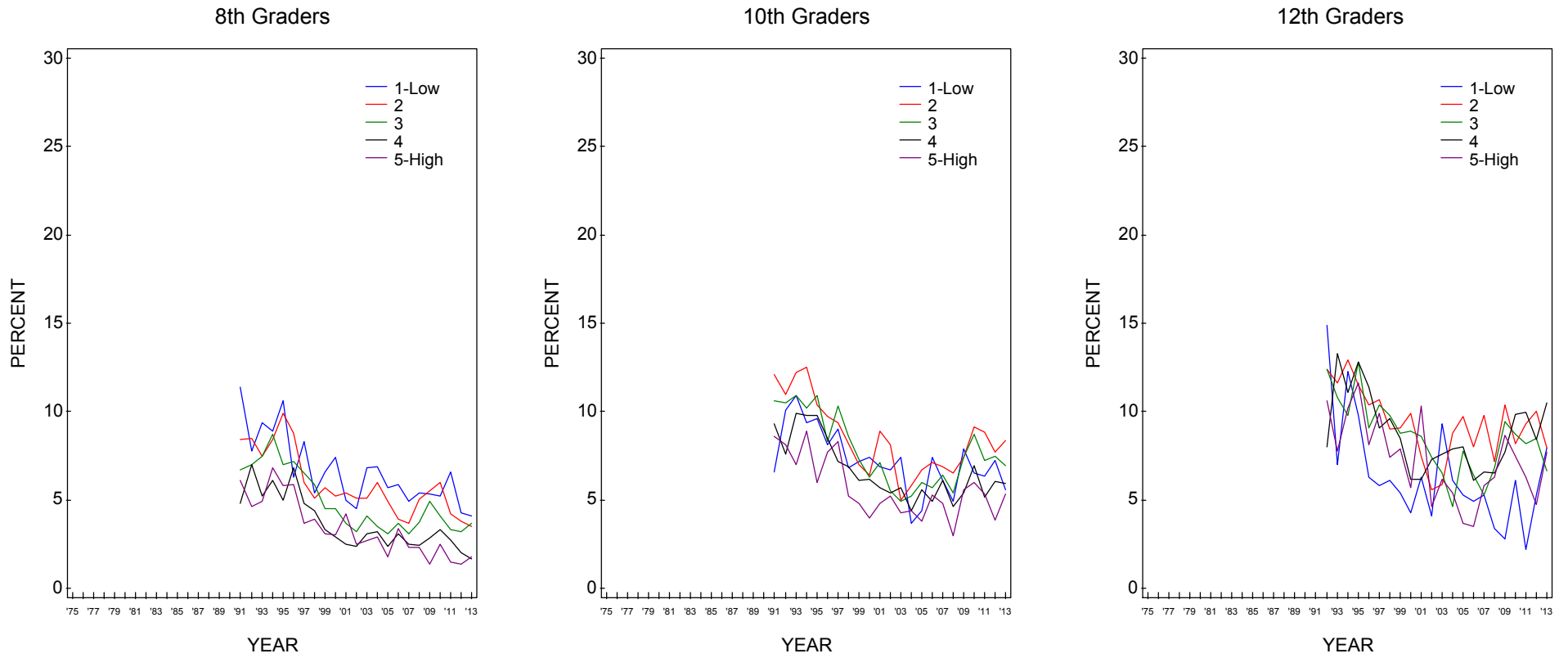
Source. The Monitoring the Future study, the University of Michigan.

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



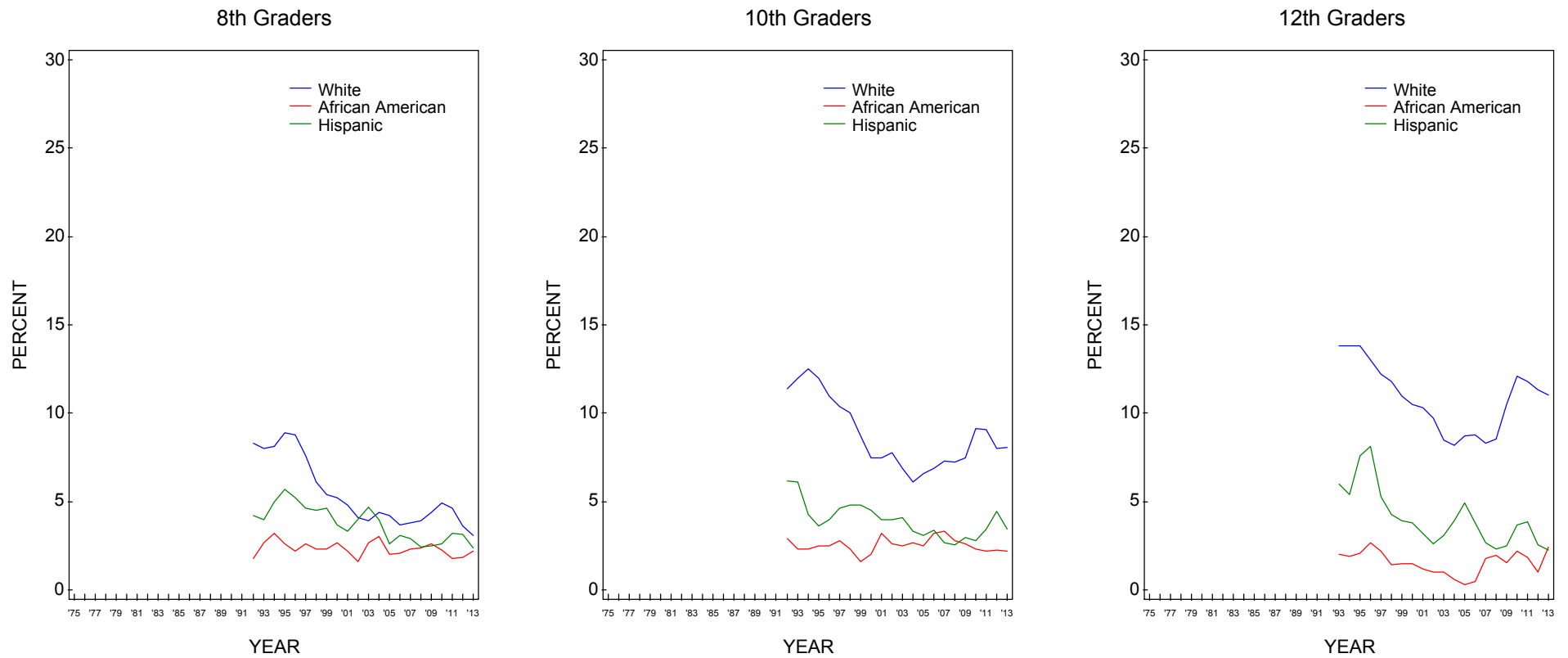
Source. The Monitoring the Future study, the University of Michigan.

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



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

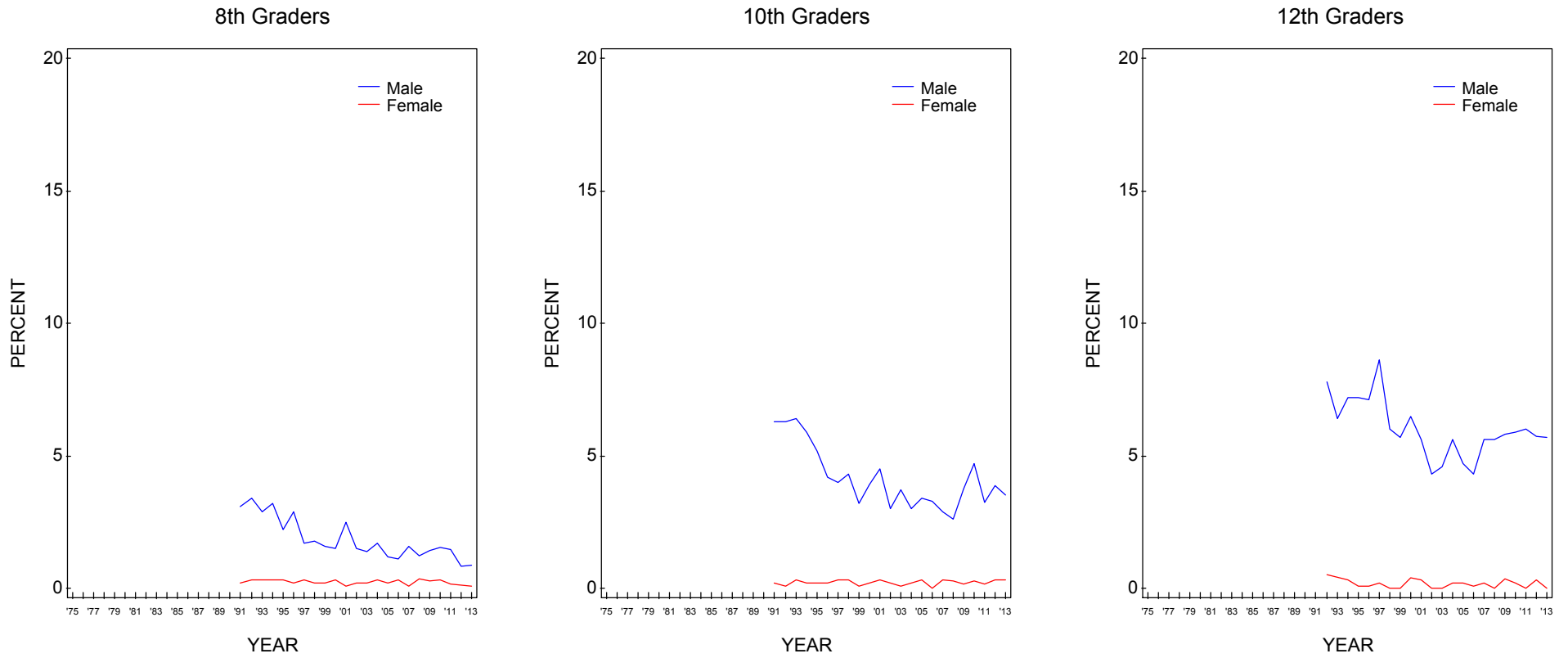
**FIGURE 312**  
**Smokeless Tobacco: Trends in 30-Day Prevalence by Race/Ethnicity\***



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

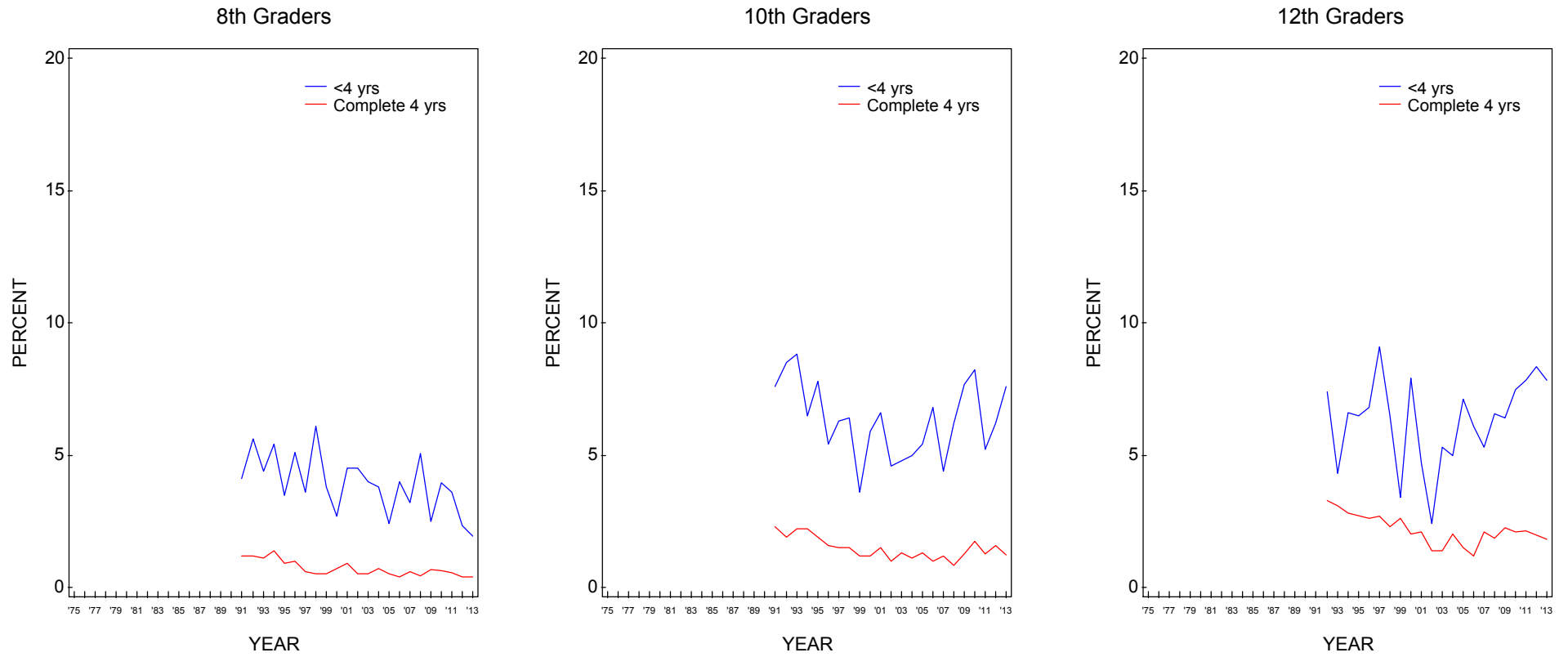
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 313**  
**Smokeless Tobacco: Trends in 30-Day Prevalence of Daily Use by Gender**



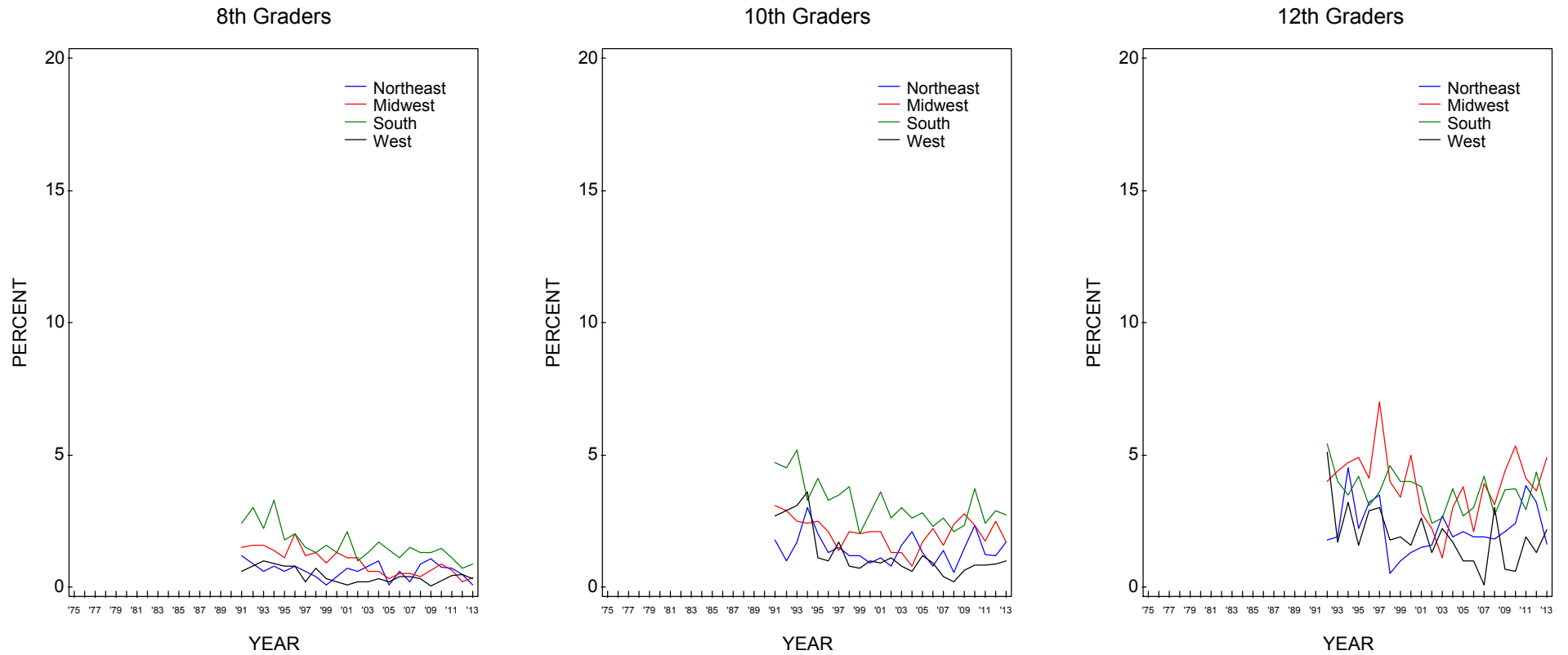
Source. The Monitoring the Future study, the University of Michigan.

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



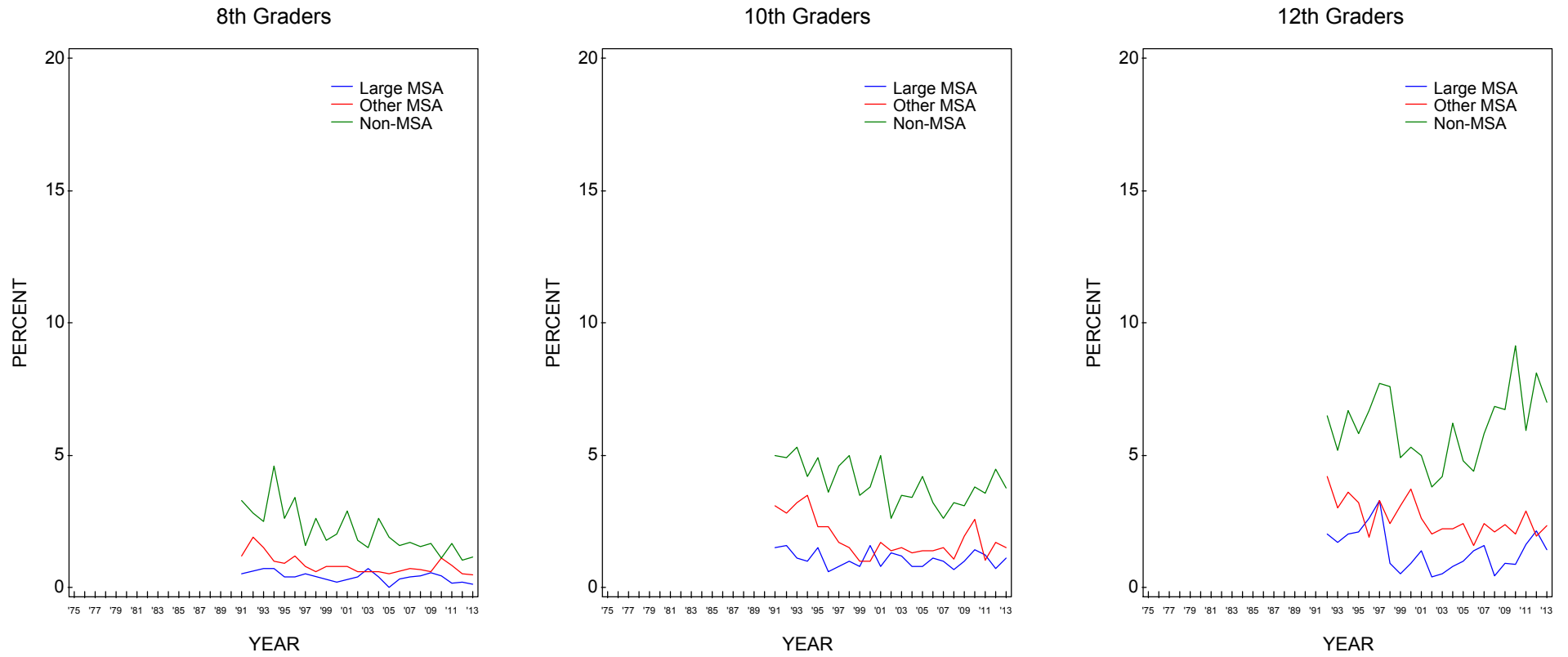
Source. The Monitoring the Future study, the University of Michigan.

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



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

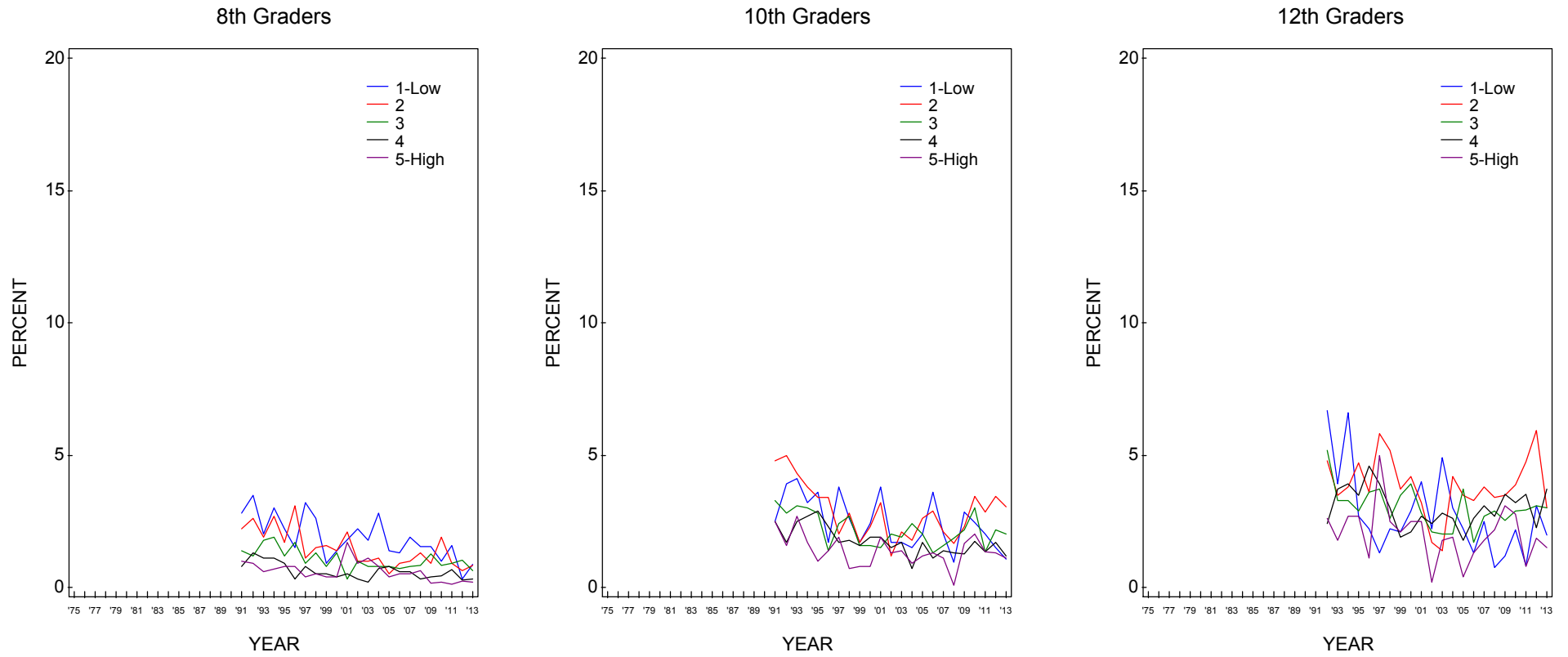
**FIGURE 316**  
**Smokeless Tobacco: Trends in 30-Day Prevalence of Daily Use by Population Density**



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

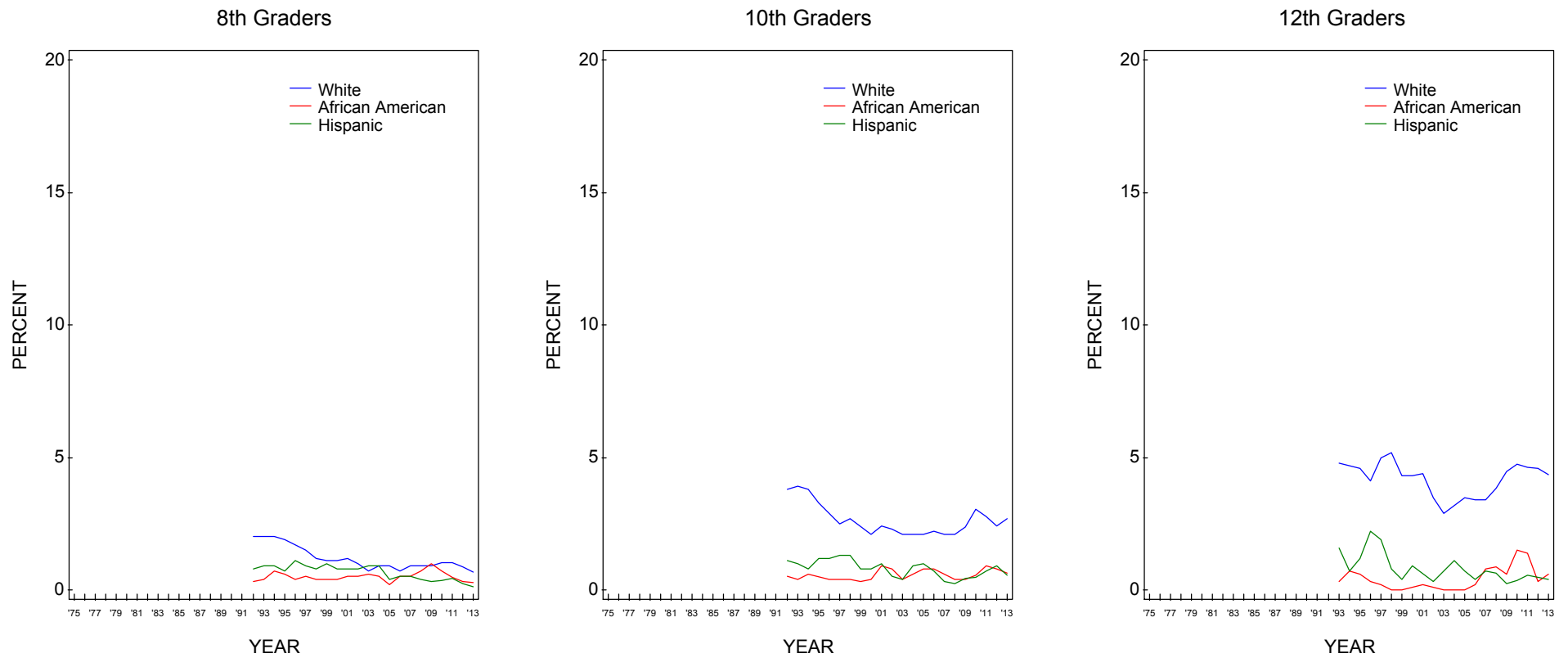


**FIGURE 317**  
**Smokeless Tobacco: Trends in 30-Day Prevalence of Daily Use by Average Education Level of Parents**



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

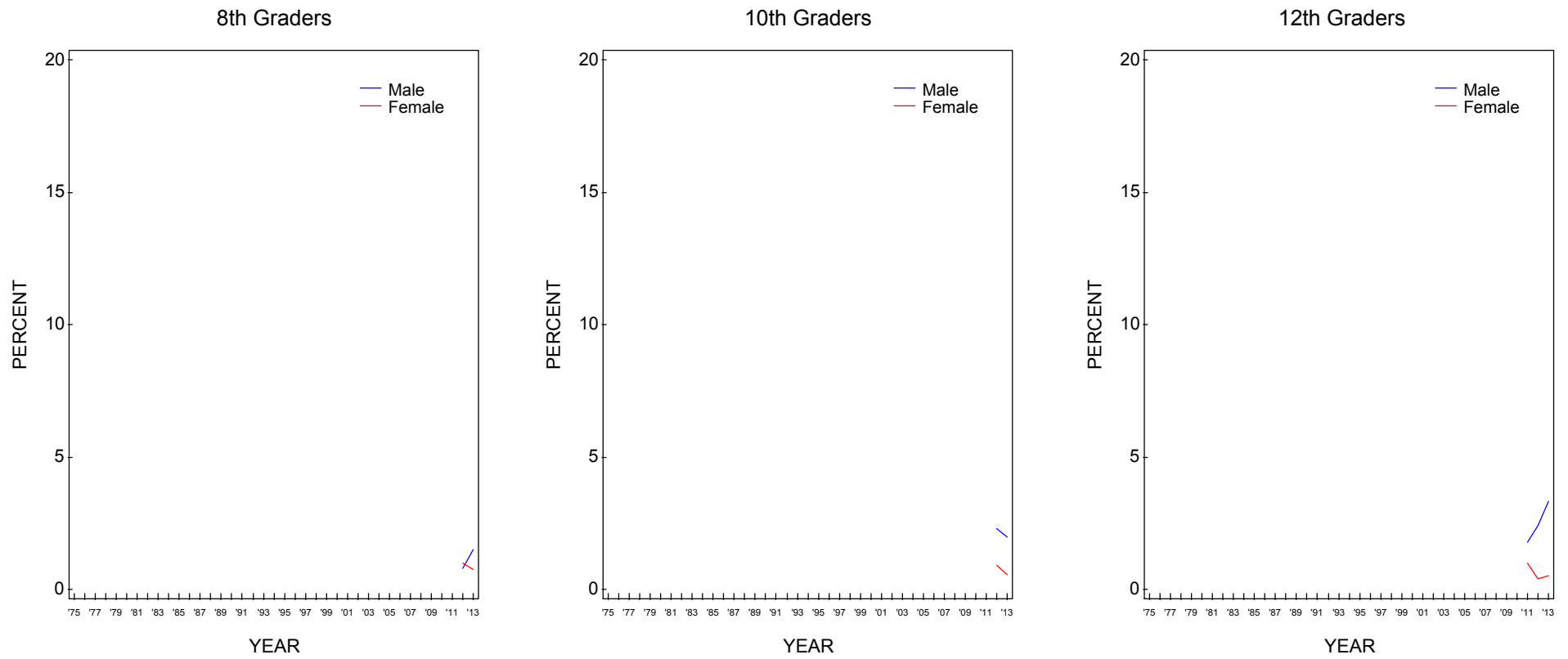
**FIGURE 318**  
**Smokeless Tobacco: Trends in 30-Day Prevalence of Daily Use by Race/Ethnicity\***



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

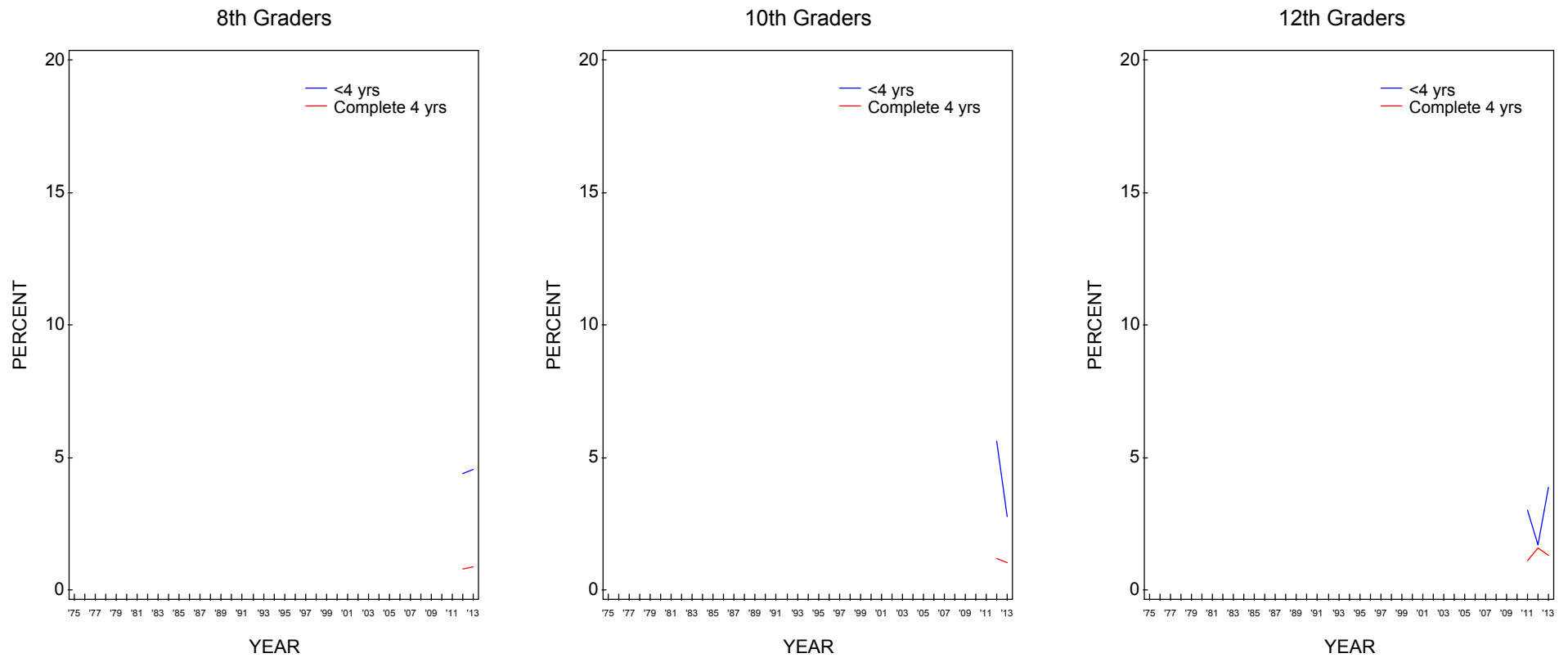
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

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



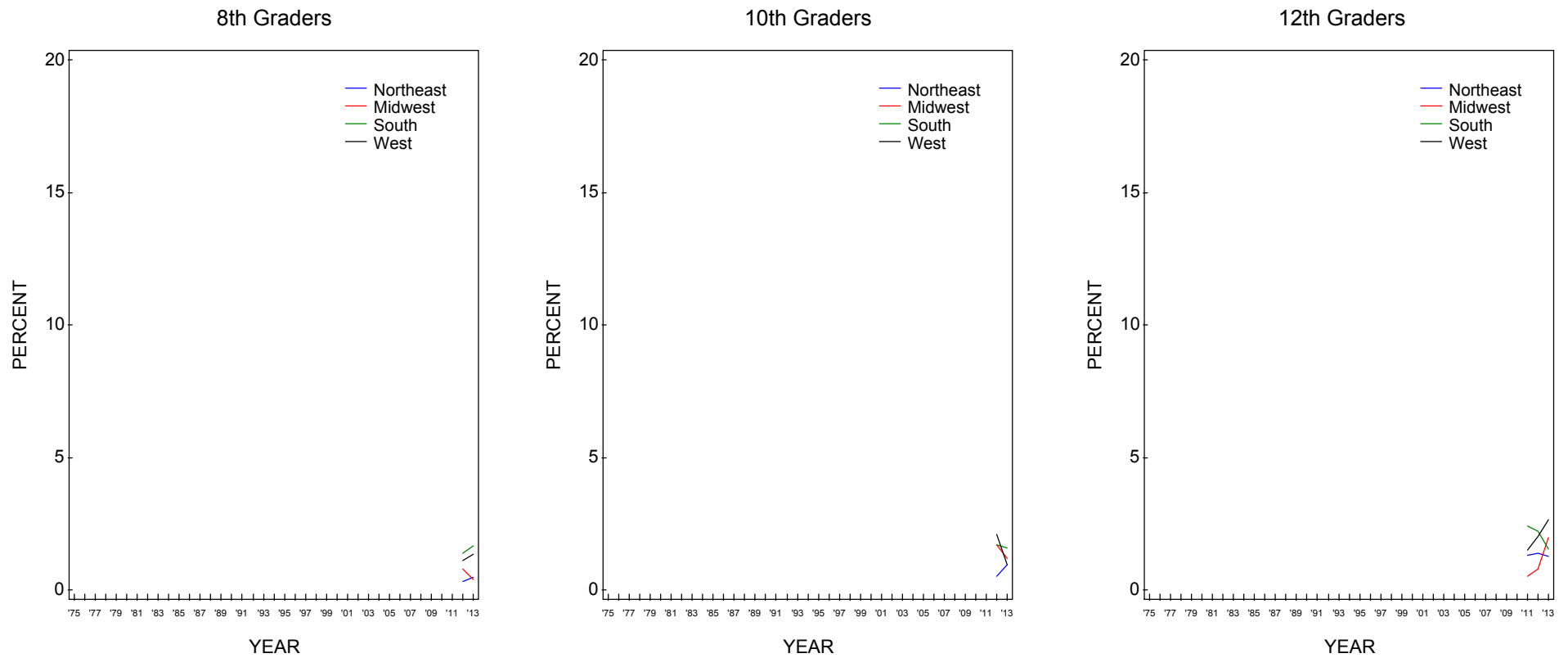
Source. The Monitoring the Future study, the University of Michigan.

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



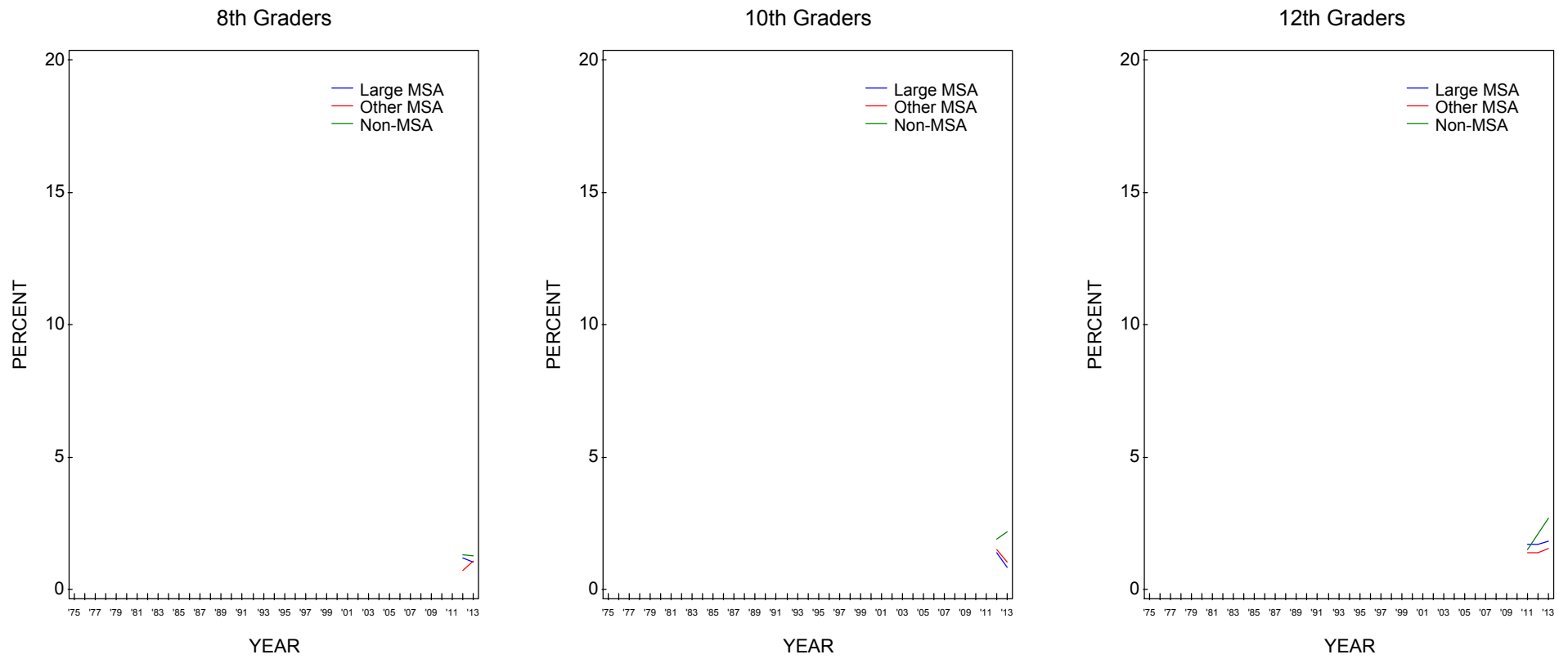
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 321**  
**Dissolvable Tobacco Products: Trends in Annual Prevalence by Region**



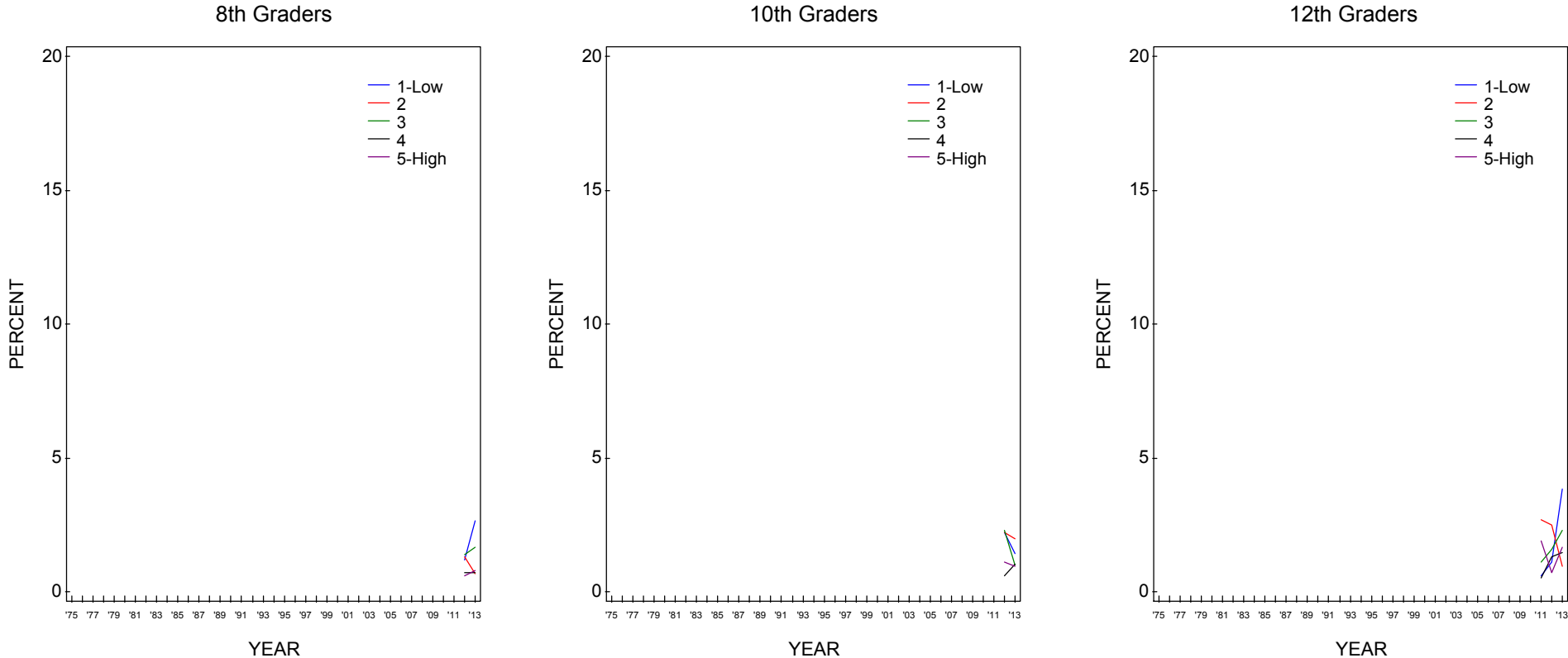
Source. The Monitoring the Future study, the University of Michigan.

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



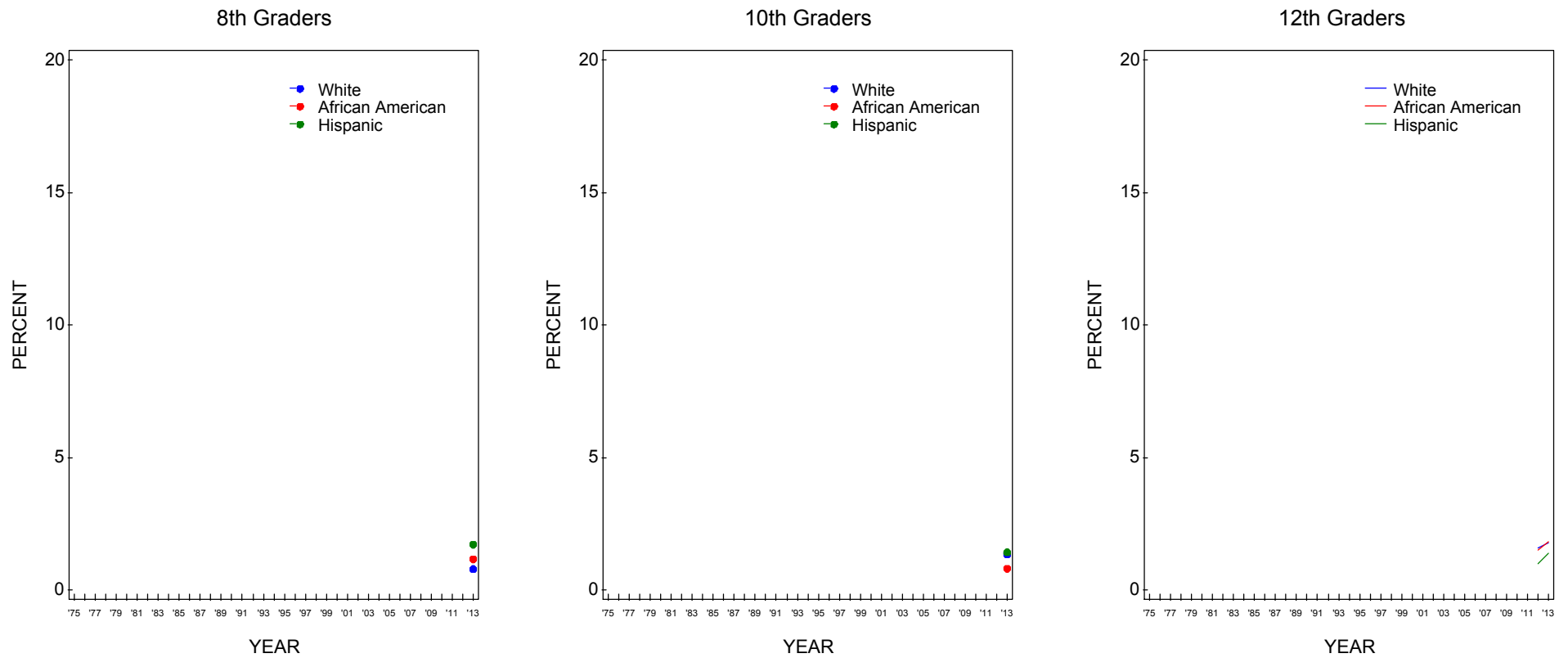
Source. The Monitoring the Future study, the University of Michigan.

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



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

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

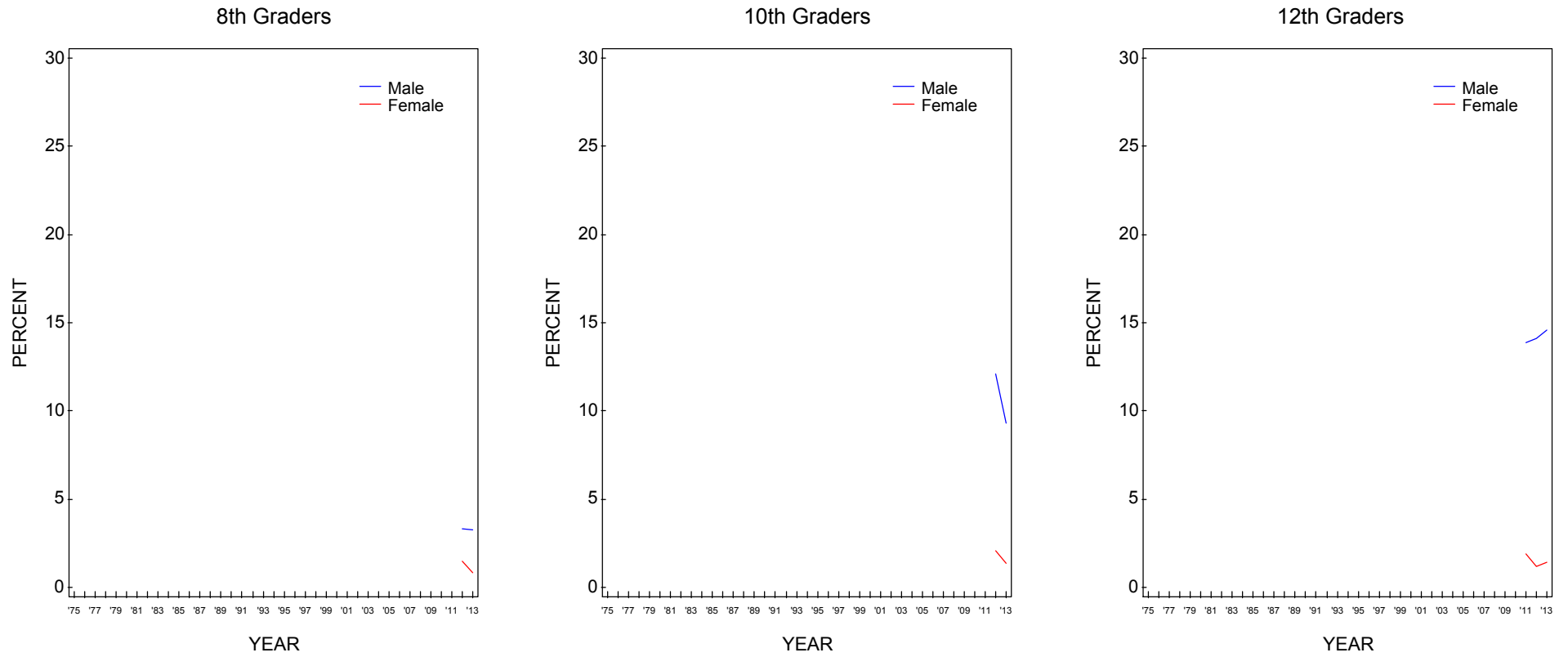


Source. The Monitoring the Future study, the University of Michigan.

\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

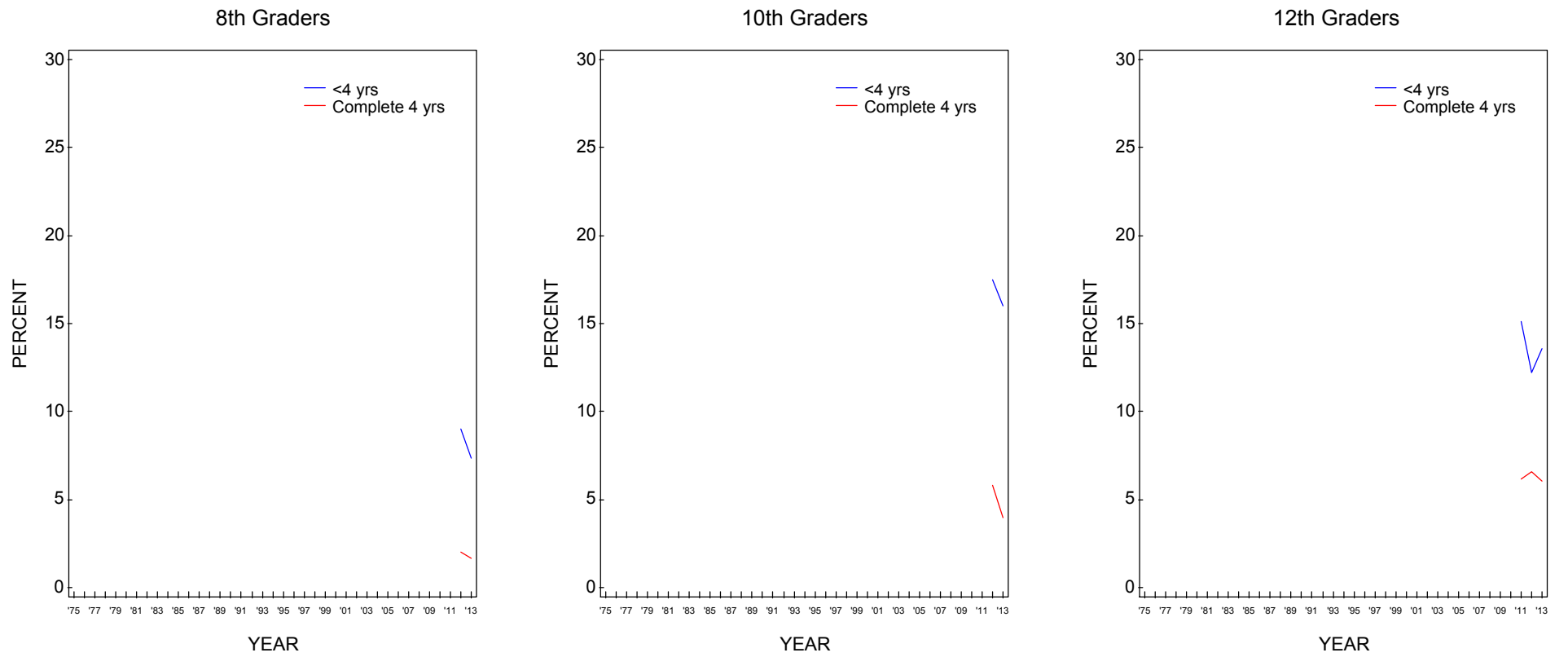


**FIGURE 325**  
**Snus: Trends in Annual Prevalence by Gender**



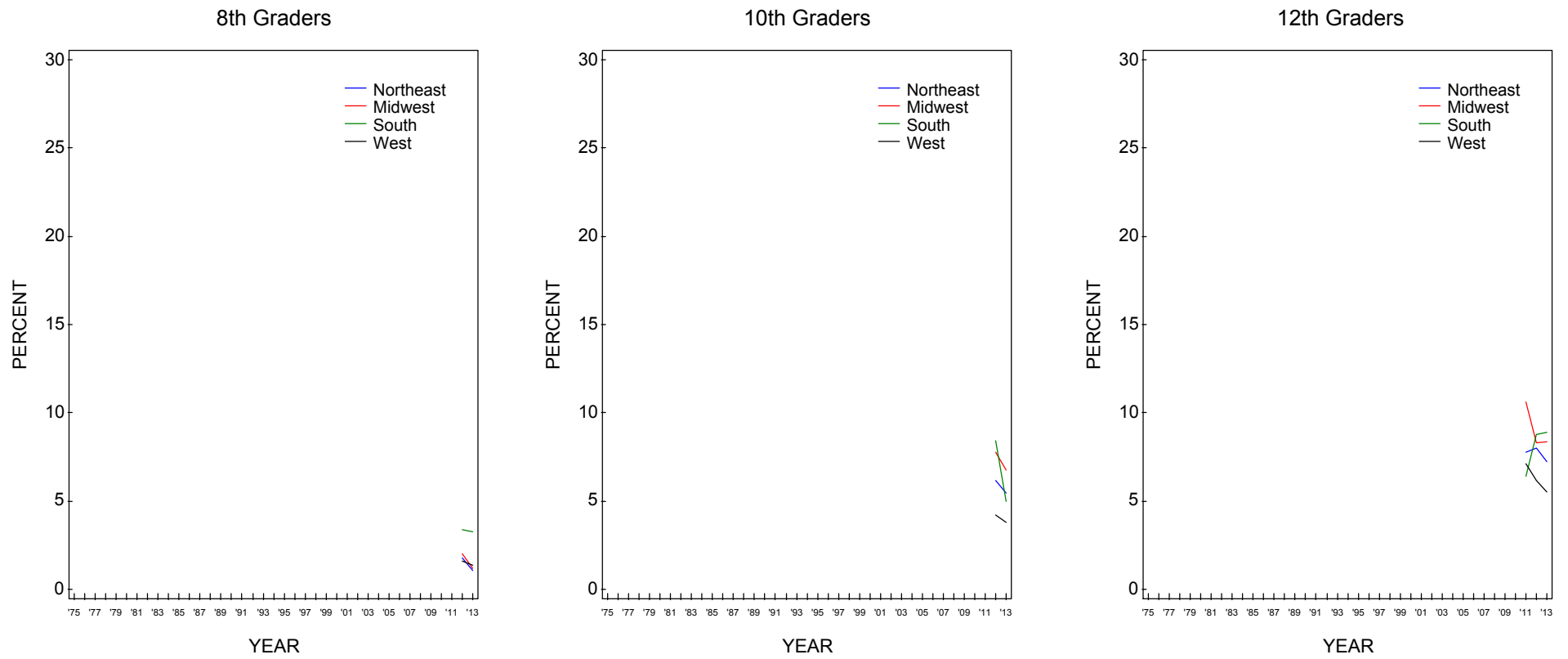
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 326**  
**Snus: Trends in Annual Prevalence by College Plans**



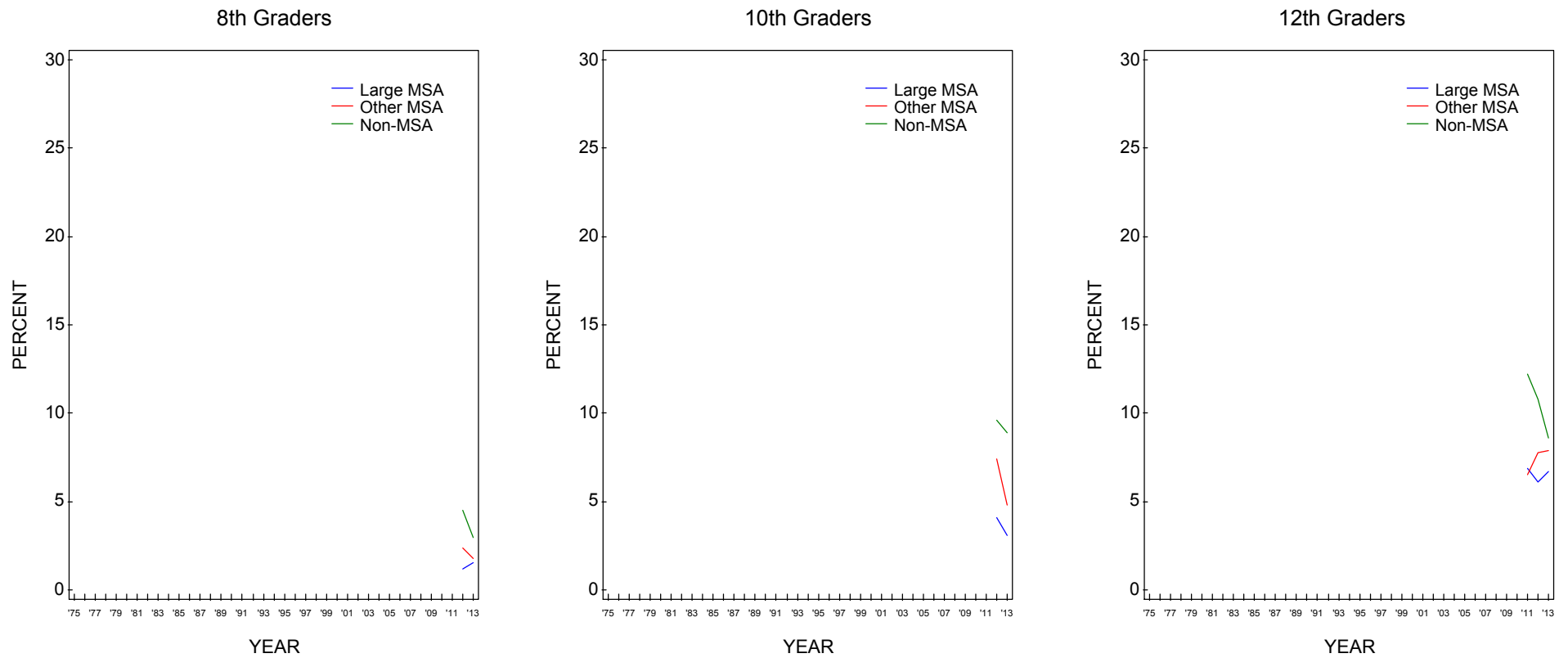
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 327**  
**Snus: Trends in Annual Prevalence by Region**



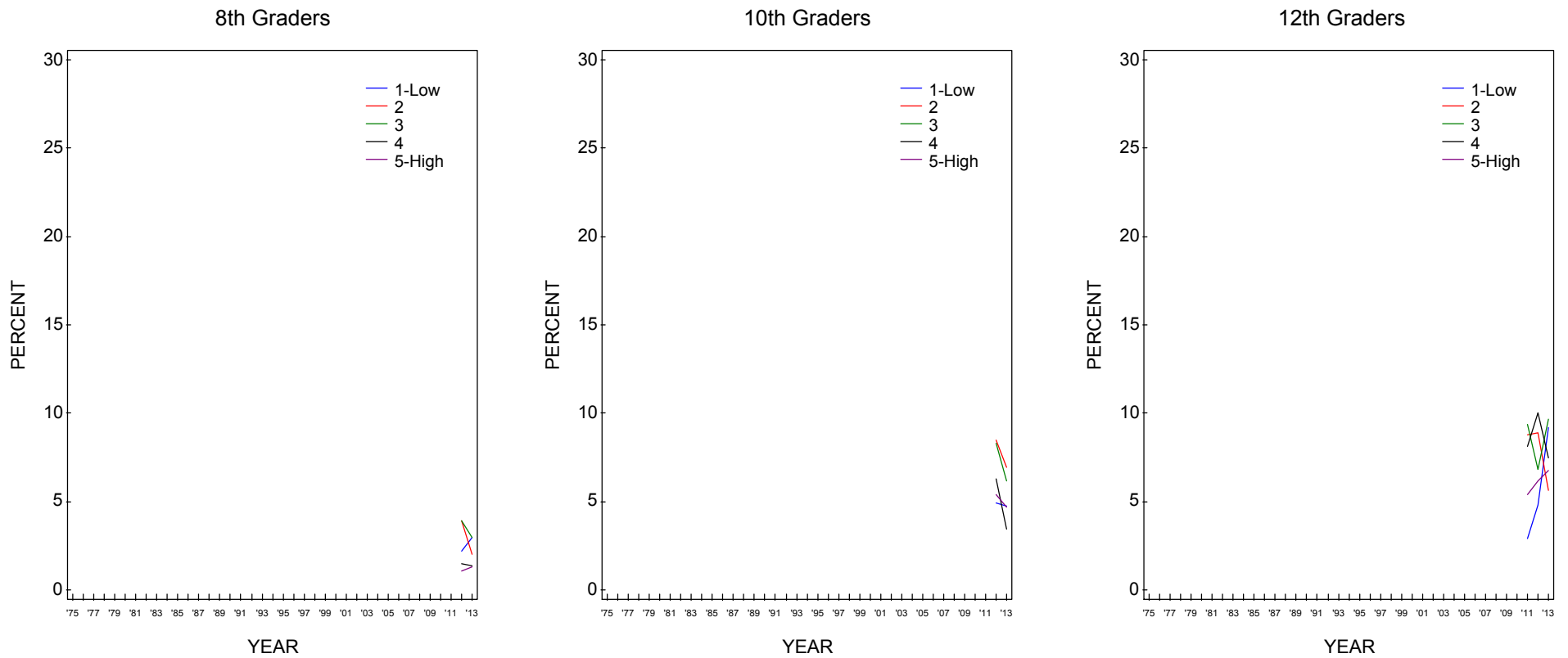
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 328**  
**Snus: Trends in Annual Prevalence by Population Density**



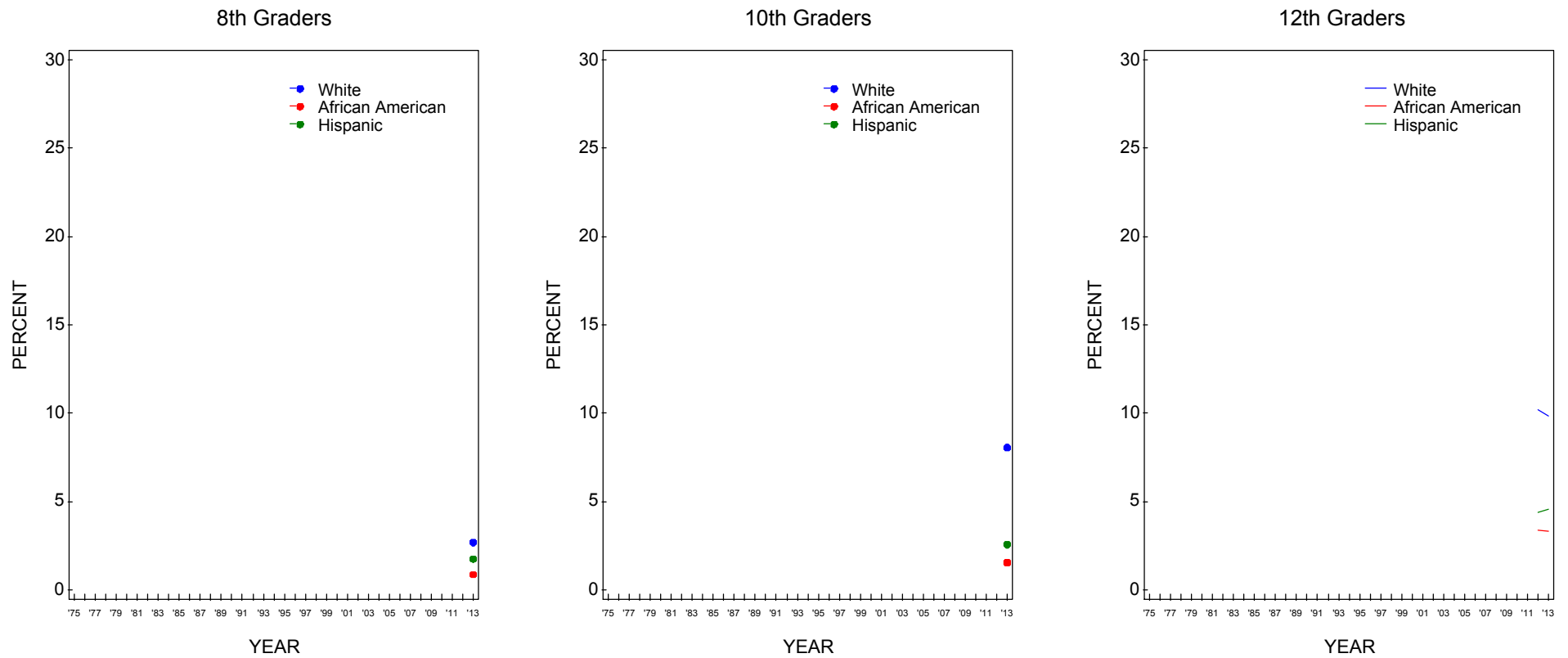
Source. The Monitoring the Future study, the University of Michigan.

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



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

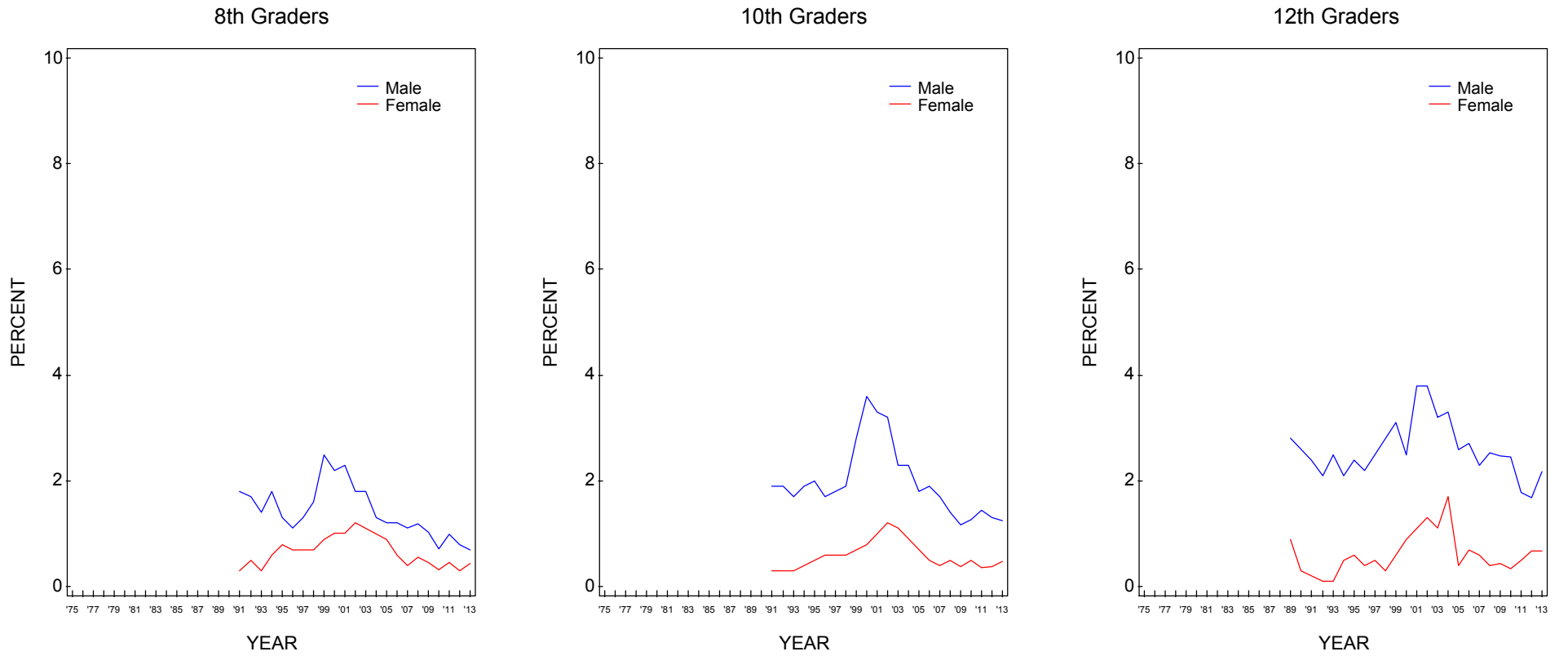
**FIGURE 330**  
**Snus: Trends in Annual Prevalence by Race/Ethnicity\***



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

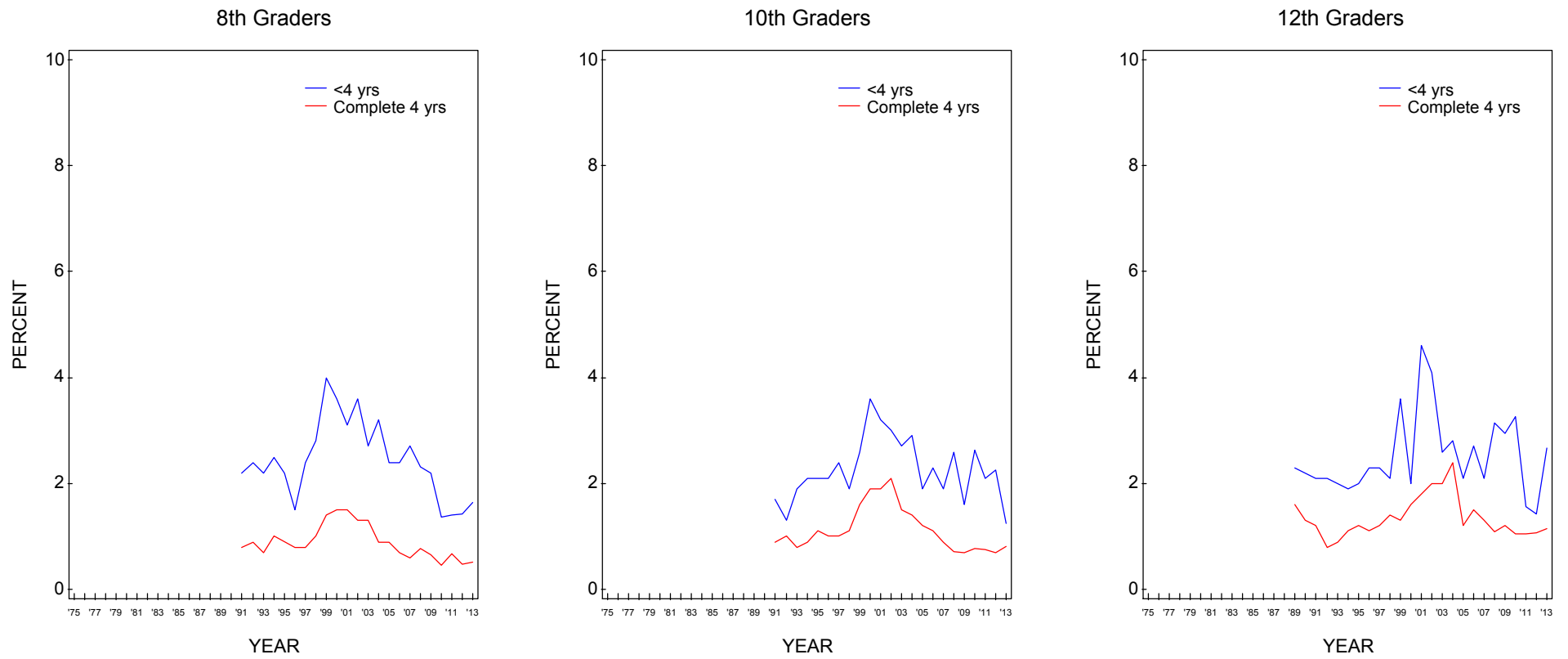
\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

**FIGURE 331**  
**Steroids: Trends in Annual Prevalence by Gender**



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

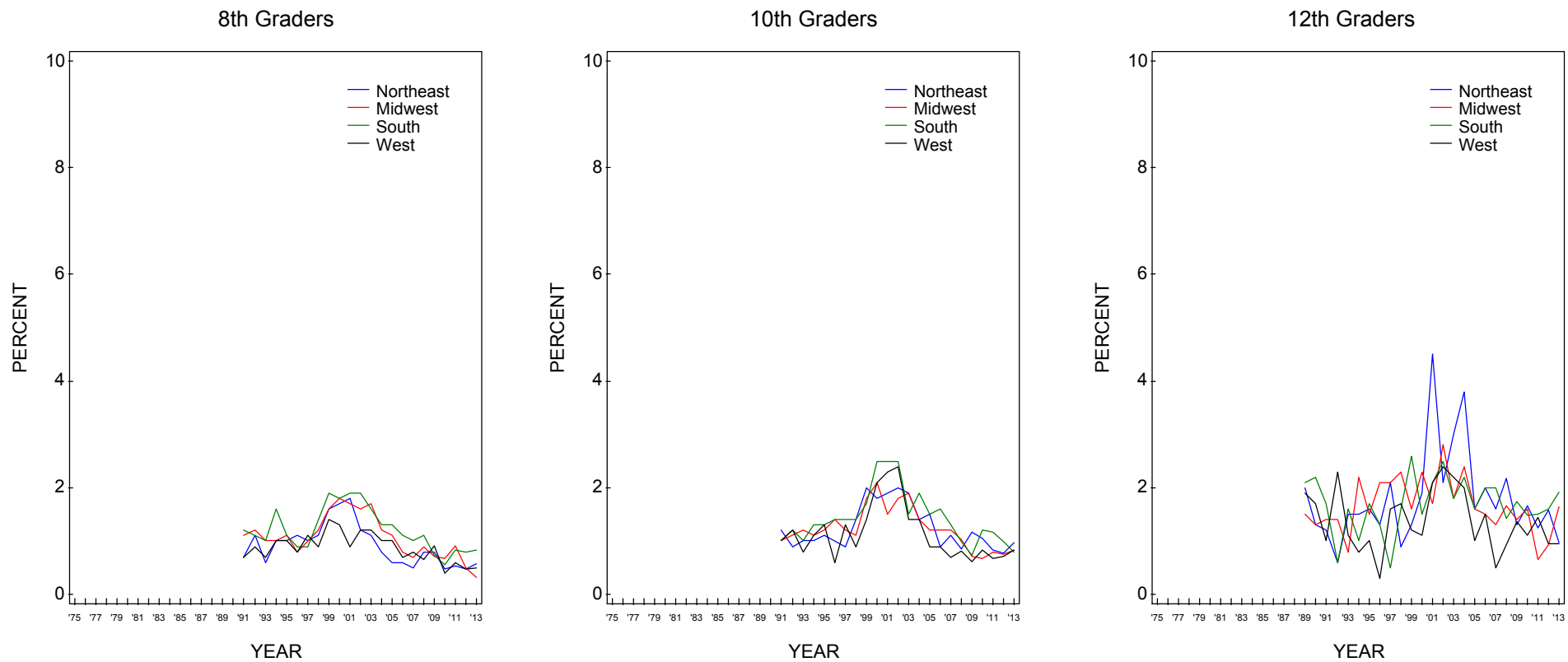
**FIGURE 332**  
**Steroids: Trends in Annual Prevalence by College Plans**



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

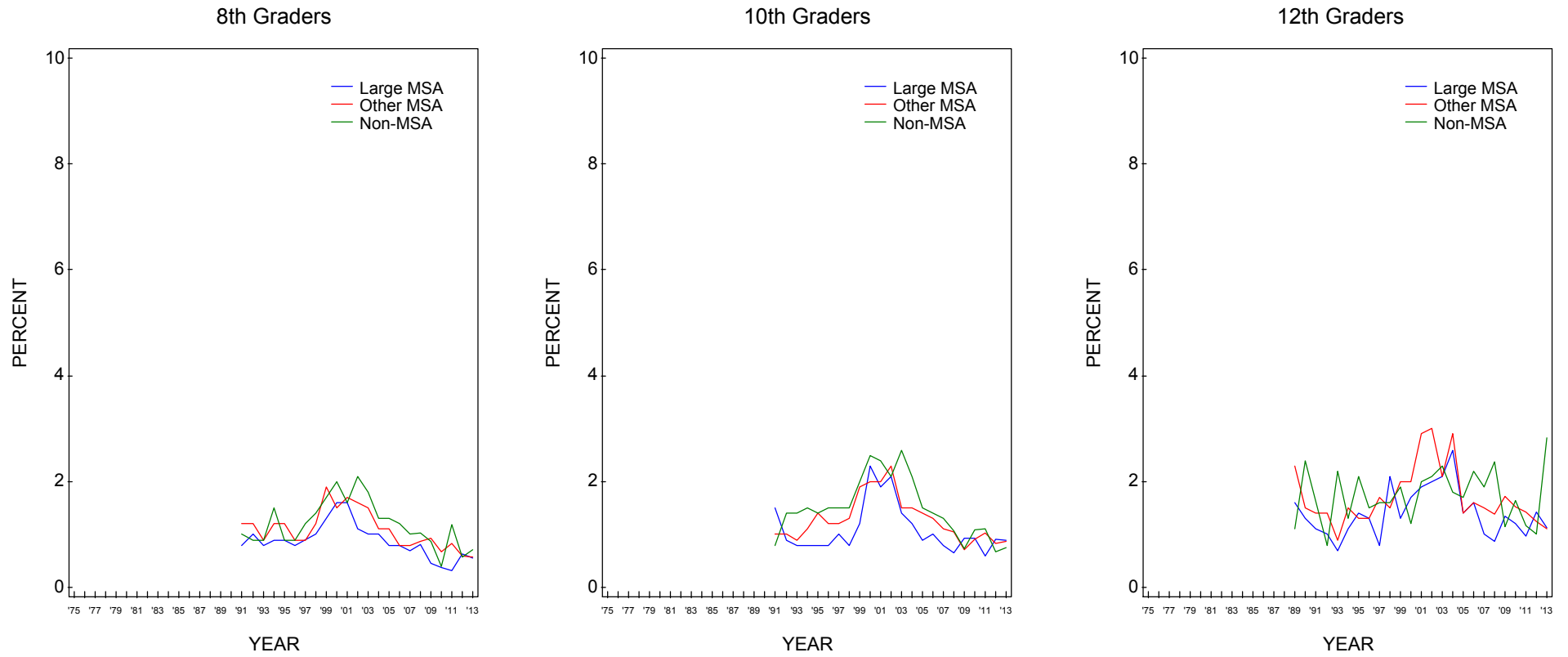


**FIGURE 333**  
**Steroids: Trends in Annual Prevalence by Region**



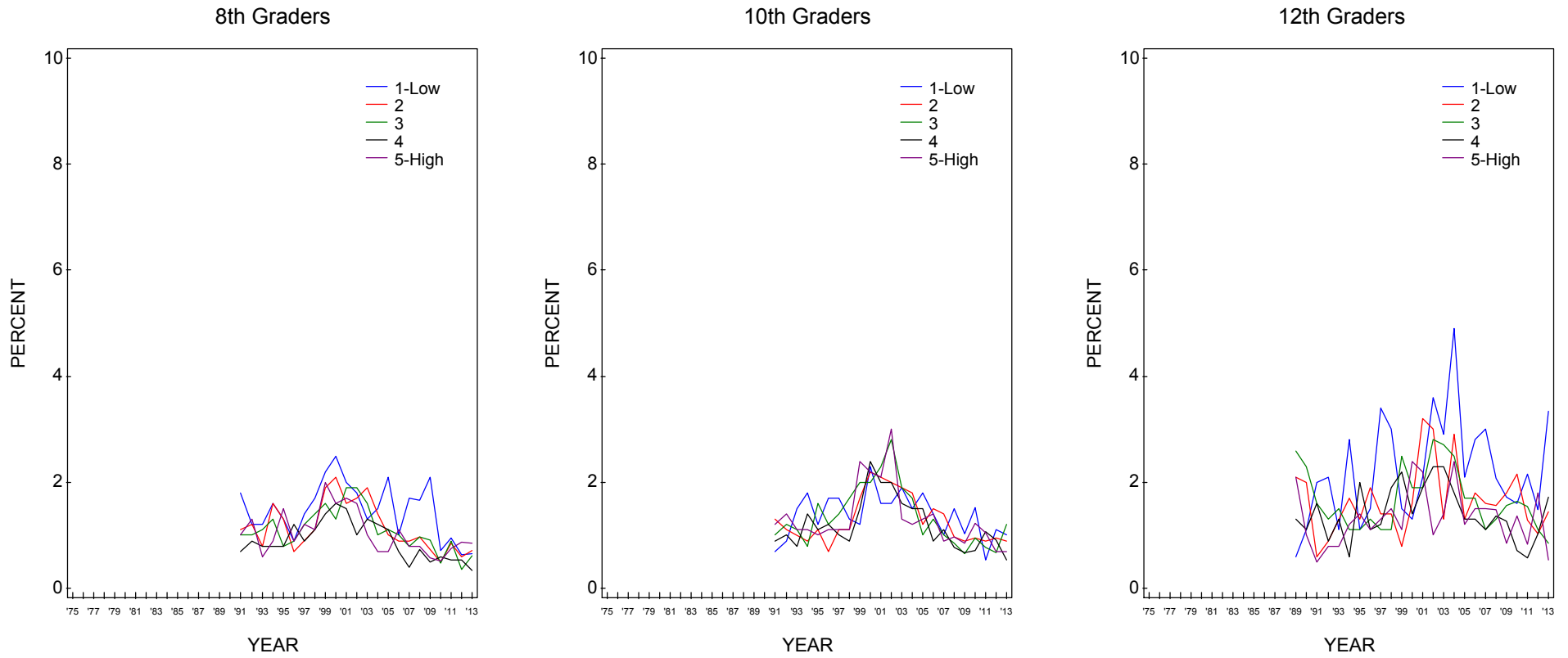
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 334**  
**Steroids: Trends in Annual Prevalence by Population Density**



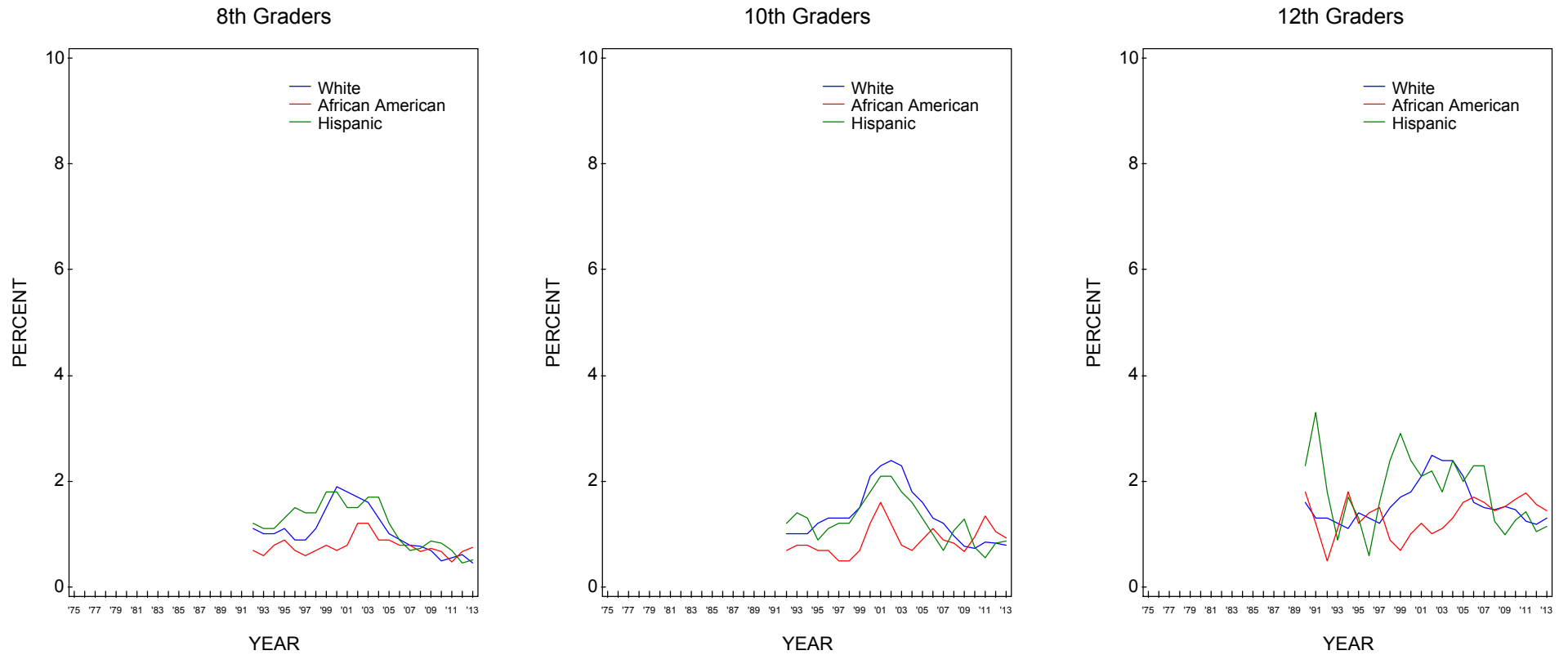
Source. The Monitoring the Future study, the University of Michigan.

**FIGURE 335**  
**Steroids: Trends in Annual Prevalence by Average Education Level of Parents**



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

**FIGURE 336**  
**Steroids: Trends in Annual Prevalence by Race/Ethnicity\***



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

\*To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

## Appendix B

### DEFINITION OF BACKGROUND AND DEMOGRAPHIC SUBGROUPS

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The following are brief definitions of the background and demographic subgroups used in this volume. (Note: All case counts provided in the tables are based on weighted *N*s.)

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

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

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

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

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

Those not answering the college plans question are omitted from both groupings.

**Region:** Region of the country in which the respondent’s school is located. There are four mutually exclusive regions based on U.S. Census Bureau categories, defined as follows:

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

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

*South.* Census classifications of South Atlantic, East South Central, and West South Central states consist of Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, Oklahoma, and Texas.

*West.* Census classifications of Mountain and Pacific states consist of Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Washington,

Oregon, and California (Alaska and Hawaii are also included in this Census region, but are not included in the MTF study).

**Population Density:**

Population density of the area in which the schools are located. There are three mutually exclusive groups that have been variously defined, as described below. The 1975–1985 samples were based on the 1970 Census; in 1986, one half of the sample was based on the 1970 Census and the other half was based on the 1980 Census. In 1987 through 1993 the samples were based on the 1980 Census; in 1994, half of the sample was based on the 1980 Census and half on the 1990 Census. Starting in 2006, each first-year half sample of schools comes from a sample design that utilizes 2000 Census counts as the measure of size for first-stage units. (Counts from the 2010 Census will be used for the samples beginning in 2014.) The three levels of population density were defined in terms of Standard Metropolitan Statistical Area (SMSA) designations through 1985, and then changed to the new Census Bureau classifications of Metropolitan Statistical Areas (MSAs), as described here:

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

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

**Other MSAs.** This category consists of all other MSAs, as defined by the Census, except those listed previously. Except in the New England states, an MSA is a county or group of contiguous counties that contain at least one city of 50,000 inhabitants or more, or twin cities with a combined population of at least 50,000. In the New England states, MSAs consisted of towns and cities instead of counties until 1994, after which New England Consolidated Metropolitan Areas (NECMAs) were used to define MSAs. Each MSA must include at least one central city, and the complete title of an MSA identifies the central city or cities. For the complete description of the criteria used in defining MSAs, see the Office of Management and Budget publication, *Metropolitan Statistical Areas, 1990*

(NTIS-PB90-214420), Washington, D.C. The population living in MSAs is designated as the metropolitan population.

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

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

**Race/Ethnicity:** From 1975 through 2004, respondents were asked “How do you describe yourself?” and presented with a list of various racial/ethnic categories. A general instruction told them to select the *one* best response for each question. In 2005 the instructions in half of the questionnaire forms were revised in order to be more consistent with the guidelines of the Office of Management and Budget for assessing race/ethnicity. In the changed forms, respondents were presented with a list of racial/ethnic categories and instructed to “select one or more responses.” An examination of the data showed that relatively few respondents (about 6% in 2005) selected more than one racial/ethnic category. In 2006 and thereafter the revised instruction was used in all forms.

For the reporting of the 2005 results, the data from the original race/ethnicity question were combined with data from the revised race/ethnicity question in the following manner: For the original question, respondents were assigned to the racial/ethnic group specified in their response. For the revised question, those checking only White and no other racial/ethnic group were categorized as White; those checking Black or African American and no other racial ethnic group were categorized as African American; and those checking Mexican American or Chicano, Cuban American, Puerto Rican, or other Hispanic or Latino and no other racial/ethnic group were categorized as Hispanic.<sup>128</sup> In the volumes for 2006 and beyond, all questionnaire forms use the revised question on race/ethnicity. Those checking multiple racial/ethnic groups or one of the other specified groups are omitted from the reporting on race/ethnicity in this volume, because of the small numbers of cases.

**White.** Consists of those respondents who describe themselves as White or Caucasian in 1975–2004. In 2005 the unchanged questionnaire forms were treated

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<sup>128</sup>Because some survey questions appear in only one or a few forms, there was some variation in the version of the race/ethnicity question upon which the 2005 data were based. Based on the analyses we have examined, we do not believe these different permutations make any appreciable difference in the results.

in a similar manner and the changed forms were treated in the manner described above. Beginning in 2006, all forms were treated in the manner described above.

***African American.*** Consists of those respondents who in 1975–1990 describe themselves as Black or Afro-American or who, in 1991–2004, describe themselves as Black or African American. In 2005 the unchanged questionnaire forms were treated in a similar manner and the changed forms were treated in the manner described above. Beginning in 2006, all forms were treated in the manner described above.

***Hispanic.*** Consists of those respondents who in 1975–1990 describe themselves as Mexican American or Chicano, or Puerto Rican or other Latin American. After 1990 this group includes those respondents who describe themselves as Mexican American or Chicano, Cuban American, Puerto Rican American, or other Latin American. After 1994, the term “Puerto Rican American” was shortened to “Puerto Rican.” In 2005 the unchanged questionnaire forms were treated in a similar manner and the changed forms were treated in the manner described above. Beginning in 2006, all forms were treated in the manner described above.



## Appendix D

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

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In earlier years, tabular trend data for all major classes of illicit and licit drugs for the population subgroups discussed in this volume (i.e., defined by gender, college plans, region, population density, parental education, and race/ethnicity) were presented in this appendix. Since 2013 we have been directing readers to a separate publication (currently, Occasional Paper 81, [www.monitoringthefuture.org/pubs/occpapers/mtf-occ81.pdf](http://www.monitoringthefuture.org/pubs/occpapers/mtf-occ81.pdf)) that contains not only the many tables that were formerly presented here, but also graphic presentations of the data included in each table.<sup>136</sup> We expect that readers will generally find the figures much easier to digest, particularly in examining trends. The numbers of cases that go with the data in the figures may be found in the complete set of tables that are contained in the same Occasional Paper.

A few notes about the tables and figures are in order.

Due to the sheer quantity of information such trend tables generate for each prevalence measure (e.g., lifetime, annual, 30-day, daily), we have selected the prevalence periods that seem most useful for understanding subgroup differences. Thus, for most drugs, we include only annual prevalence; rates for different prevalence periods are provided for alcohol, cigarettes, and smokeless tobacco because of their more frequent use.

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

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

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<sup>136</sup>Johnston, L. D., O'Malley, P. M., Bachman, J. G., Schulenberg, J. E., and Miech, R.A. (2014). *Demographic subgroup trends for various licit and illicit drugs, 1975–2013* (Monitoring the Future Occasional Paper No. 81). Ann Arbor, MI: Institute for Social Research, The University of Michigan. 452pp. Available at <http://www.monitoringthefuture.org/pubs/occpapers/mtf-occ81.pdf>.

## *Monitoring the Future*

Sample sizes, provided in Tables D-S1 through D-S3 here and in Occasional Paper 81, should be taken into account when interpreting the importance of any changes observed. The reader should be aware that the numbers provided in those tables assume that all respondents in a given grade were asked about their use of the drug. Some of the drugs were not contained in all questionnaire forms, meaning that the subgroup and total *Ns* must be adjusted accordingly. The “Notes” section at the bottom of each table will indicate if only a fraction of the sample received the question.

As stated above, [Occasional Paper No. 81](#) also includes graphic presentations of the trends presented in the tables for the various demographic subgroups. These figures use color to help distinguish the various subgroups and improve readability. The reader interested in these trends is encouraged first to make use of the figures in the occasional paper. The “List of Figures” which is part of the front matter in the Occasional Paper contains *active links to all subgroup figures for all drugs*. Simply click on the subgroup dimension (e.g., gender or college plans) in which you are interested for any given drug and that page will appear.

## List of 2013 Tables

Substance	Table Number			Time Period				
	8th Grade	10th Grade	12th Grade	Lifetime	Annual	30-Day	Daily	2-Weeks
Any illicit drug	1	2	3		X			
Any illicit drug other than marijuana	4	5	6		X			
Marijuana, Lifetime	7	8	9	X				
Marijuana, Annual	10	11	12		X			
Marijuana, 30-Day	13	14	15			X		
Marijuana, Daily	16	17	18				X	
Synthetic Marijuana	19	19	19		X			
Inhalants	20	21	22		X			
Hallucinogens	23	24	25		X			
LSD	26	27	28		X			
Hallucinogens other than LSD	29	30	31		X			
Ecstasy (MDMA)	32	33	34		X			
Salvia	35	35	35		X			
Cocaine	36	37	38		X			
Crack	39	40	41		X			
Other cocaine	42	43	44		X			
Heroin	45	46	47		X			
Heroin with a needle	48	49	50		X			
Heroin without a needle	51	52	53		X			
Narcotics other than heroin	—	—	54		X			
OxyContin	55	56	57		X			
Vicodin	58	59	60		X			
Amphetamines	61	62	63		X			
Ritalin	64	65	66		X			
Adderall	67	67	67		X			
Provigil	—	—	68		X			
Methamphetamine	69	70	71		X			
Crystal methamphetamine (ice)	—	—	72		X			
Bath Salts (Synthetic Stimulants)	73	73	73		X			
Sedatives (barbiturates)	—	—	74		X			
Tranquilizers	75	76	77		X			
OTC cough/cold medicines	78	79	80		X			
Rohypnol	81	82	83		X			
Alcohol	84	85	86			X		
Been drunk	87	88	89			X		
5+ drinks in a row	90	91	92					X
Beer	93	94	95			X		
5+ drinks in a row	96	97	98					X
Liquor	—	—	99			X		
5+ drinks in a row	—	—	100					X
Wine	—	—	101			X		
5+ drinks in a row	—	—	102					X
Wine coolers	103	104	105			X		
5+ drinks in a row	—	—	106					X
Flavored alcoholic beverages	107	108	109			X		
Alcoholic Beverages containing Caffeine	110	110	110		X			
Cigarettes	111	112	113			X		
Daily	114	115	116				X	
1/2 pack+/day	117	118	119				X	
Tobacco using a Hookah	—	—	120		X			
Small cigars	—	—	121		X			
Smokeless tobacco	122	123	124			X		
Daily	125	126	127				X	
Dissolvable Tobacco Products	128	128	128		X			
Snus	129	129	129		X			
Steroids	130	131	132		X			
Weighted Ns by subgroups	S1	S2	S3					

**TABLE 1**  
**ANY ILLICIT DRUG:** <sup>a</sup>  
**Trends in Annual Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 12 months																							2012–	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2013	
<i>Approximate weighted N =</i>	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600		
Total	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	14.9	+1.5 s	
Gender:																									
Male	11.7	11.9	15.2	19.4	22.3	23.6	22.6	21.3	21.3	19.7	21.3	19.2	16.4	15.0	15.2	15.1	13.2	14.3	15.7	16.7	15.7	13.8	14.4	+0.6	
Female	11.0	13.6	14.9	17.6	20.2	23.3	21.3	20.4	19.7	19.0	17.5	16.3	15.5	15.2	15.6	14.2	12.9	13.7	13.1	15.4	13.3	12.7	15.0	+2.2 s	
College Plans:																									
None or under 4 years	22.8	25.6	30.7	34.6	38.4	40.3	39.6	41.3	39.9	38.9	38.5	36.8	34.7	33.6	35.2	33.1	31.9	34.5	30.7	33.6	32.1	30.1	31.0	+0.9	
Complete 4 years	9.5	10.9	12.8	16.3	19.1	21.0	19.9	18.4	18.0	17.1	17.2	15.7	14.0	13.2	13.3	13.0	11.4	12.3	13.0	14.6	13.2	12.1	13.7	+1.6 s	
Region:																									
Northeast	9.3	10.6	11.5	16.6	17.9	20.3	20.2	16.0	18.2	16.6	18.1	13.8	13.1	13.0	12.3	10.8	8.1	11.3	13.8	14.1	9.8	9.6	12.4	+2.8	
Midwest	11.2	13.0	13.9	17.2	23.3	24.7	22.3	21.9	22.6	20.6	18.0	17.0	15.7	14.2	15.9	13.9	12.9	15.5	13.5	14.2	13.0	9.9	12.5	+2.6	
South	11.5	12.9	15.1	17.6	20.8	22.5	21.6	22.3	21.0	19.2	21.5	20.1	18.1	16.8	17.4	17.7	15.2	15.6	15.9	18.4	15.7	15.8	17.1	+1.2	
West	13.3	15.0	21.1	23.7	23.3	27.1	24.4	22.0	19.2	21.0	18.9	18.4	15.6	15.5	14.5	13.9	13.3	12.4	13.5	15.5	18.6	15.6	15.5	-0.1	
Population Density:																									
Large MSA	10.5	12.0	13.1	16.2	15.2	23.4	20.5	19.8	19.1	18.1	16.4	15.9	14.3	14.0	14.9	13.5	11.5	12.5	12.4	15.3	13.4	12.6	15.6	+3.0 s	
Other MSA	12.1	14.4	17.3	21.5	23.7	24.9	22.6	21.4	19.5	18.8	21.5	18.3	16.2	15.9	16.2	15.6	13.8	15.1	15.7	17.2	16.1	14.3	14.2	-0.1	
Non-MSA	10.8	11.2	12.9	14.0	20.3	21.4	22.9	21.6	24.3	22.7	19.1	18.9	18.1	15.3	15.0	15.2	14.5	14.2	14.5	14.4	13.7	12.7	15.4	+2.7	
Parental Education: <sup>b</sup>																									
1.0–2.0 (Low)	19.5	18.5	20.8	26.1	29.8	26.7	29.5	30.4	30.2	30.9	29.9	27.3	26.4	25.7	24.9	23.7	23.2	23.3	21.5	24.6	23.4	22.0	24.3	+2.3	
2.5–3.0	11.7	14.1	17.1	20.2	24.3	25.7	25.5	24.2	24.9	23.9	23.3	22.4	20.4	18.5	20.5	18.6	16.8	19.2	19.0	20.6	20.1	18.4	20.4	+1.9	
3.5–4.0	11.6	13.6	15.4	19.7	23.4	26.2	23.8	21.8	21.0	20.1	21.5	18.5	16.9	16.7	16.7	16.5	14.9	15.3	15.8	17.1	16.4	15.4	17.4	+2.0	
4.5–5.0	8.7	10.2	12.8	15.7	17.4	21.3	19.3	17.8	15.6	14.6	15.0	14.5	12.0	12.1	11.4	11.0	9.2	10.5	11.1	12.8	10.7	9.6	10.9	+1.3	
5.5–6.0 (High)	10.2	10.1	11.8	14.9	17.7	19.8	16.8	17.1	15.8	15.0	13.4	12.1	11.0	10.9	9.8	9.9	8.1	9.6	9.9	10.5	8.7	7.9	8.7	+0.8	
Race/Ethnicity (2-year average): <sup>c</sup>																									
White	—	11.8	13.6	15.7	19.2	22.4	23.0	21.5	19.9	19.1	19.0	18.3	16.5	14.9	14.4	14.1	13.1	13.0	13.5	14.1	13.8	12.1	11.1	-1.0	
African American	—	7.9	9.3	13.0	15.8	17.5	18.1	18.1	18.6	18.3	16.7	15.1	14.6	14.6	15.6	14.9	12.7	12.3	14.2	15.7	15.0	13.5	14.9	+1.4	
Hispanic	—	18.1	20.6	24.6	26.7	26.9	26.5	26.7	27.4	25.1	24.3	24.8	22.8	20.9	18.8	17.9	16.8	16.1	16.8	18.2	19.3	19.3	18.9	-0.4	

<sup>a</sup>Source. The Monitoring the Future study, the University of Michigan.

<sup>b</sup>Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>c</sup>Use of any illicit drug includes any use of marijuana, LSD, other hallucinogens, crack, other cocaine, or heroin; or any use of amphetamines or tranquilizers not under a doctor's orders. The use of narcotics other than heroin and sedatives (barbiturates) has been excluded because 8th and 10th graders appear to overreport their use (perhaps because they include the use of nonprescription drugs in their answers).

<sup>d</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>e</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 2**  
**ANY ILLICIT DRUG: <sup>a</sup>**  
**Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months																							2012– 2013 change
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	21.4	20.4	24.7	30.0	33.3	37.5	38.5	35.0	35.9	36.4	37.2	34.8	32.0	31.1	29.8	28.7	28.1	26.9	29.4	30.2	31.1	30.1	31.8	+1.6
Gender:																								
Male	21.6	20.4	25.1	31.8	33.7	38.8	40.1	35.3	37.0	39.4	39.6	35.9	33.2	32.0	30.5	29.3	29.5	27.9	31.6	33.0	33.8	32.9	34.5	+1.6
Female	21.1	20.1	24.0	28.0	32.5	36.3	36.8	34.7	34.6	33.5	35.0	33.7	30.8	30.2	28.9	28.1	26.7	25.6	27.3	27.3	28.2	27.5	29.3	+1.7
College Plans:																								
None or under 4 years	32.7	32.0	37.7	43.2	47.3	52.4	55.2	50.5	51.8	53.5	52.7	51.5	48.6	46.9	45.8	46.2	45.7	47.0	48.5	48.8	50.4	46.2	48.3	+2.0
Complete 4 years	18.9	17.8	21.9	27.0	30.8	35.0	35.7	32.2	33.2	33.9	34.6	32.1	29.2	28.9	27.6	26.4	25.7	24.2	27.3	28.0	28.9	28.5	30.1	+1.6
Region:																								
Northeast	21.8	19.0	26.9	29.6	32.4	37.7	37.8	39.0	38.2	34.0	37.4	35.2	32.6	32.8	31.3	27.8	27.7	28.6	26.2	27.9	30.6	33.2	30.0	-3.1
Midwest	21.7	20.7	22.4	28.5	32.1	37.6	37.7	32.0	35.2	34.8	35.9	33.7	28.8	28.8	29.1	28.2	28.1	25.8	26.2	28.1	29.0	26.3	29.1	+2.8
South	19.2	17.9	23.3	29.2	33.2	37.9	38.7	35.1	34.8	36.0	36.7	33.9	34.0	32.9	31.1	29.7	26.7	27.1	31.6	31.0	31.4	30.3	33.5	+3.2
West	23.7	25.5	28.9	34.4	36.1	36.8	40.2	34.5	36.0	41.6	40.7	37.7	32.3	29.8	26.9	29.0	30.2	26.2	32.6	33.3	33.2	31.6	33.6	+2.0
Population Density:																								
Large MSA	21.4	19.9	24.0	29.4	28.7	35.5	37.2	32.6	35.0	36.5	34.0	33.0	30.5	28.9	28.0	27.3	27.9	26.4	29.0	28.9	29.5	30.8	30.8	0.0
Other MSA	22.0	20.8	25.1	32.7	35.5	40.0	40.0	36.9	37.3	36.6	39.0	36.9	32.4	32.0	31.1	28.6	28.3	28.1	30.7	31.9	32.6	30.2	33.4	+3.3
Non-MSA	20.4	20.1	24.4	24.7	30.7	35.1	37.2	34.5	33.9	35.8	37.4	32.8	33.5	32.3	29.5	31.4	27.8	24.8	27.4	28.6	30.2	29.2	29.3	+0.1
Parental Education: <sup>b</sup>																								
1.0–2.0 (Low)	25.5	24.8	29.2	32.6	38.2	39.5	38.3	36.6	42.2	42.4	39.0	39.4	38.8	37.7	33.2	36.2	32.0	33.6	39.5	37.4	37.7	39.8	39.6	-0.1
2.5–3.0	23.0	21.3	25.4	31.1	37.1	39.1	40.8	39.1	39.4	39.2	41.6	39.4	36.4	34.0	34.3	33.7	33.0	31.7	32.8	36.1	36.3	34.5	38.0	+3.5
3.5–4.0	21.2	20.6	24.9	30.5	34.7	40.1	41.6	35.6	35.4	39.5	38.2	35.5	33.3	33.6	30.6	30.6	30.2	29.2	30.3	31.9	33.2	31.8	33.9	+2.2
4.5–5.0	19.4	18.7	22.5	28.1	30.9	35.5	36.3	31.9	32.8	32.6	35.1	31.9	27.8	27.7	27.6	24.6	24.7	22.3	26.5	24.6	27.2	27.5	28.1	+0.6
5.5–6.0 (High)	21.1	18.5	23.6	27.2	26.6	33.6	33.7	31.5	34.6	31.3	32.7	29.1	27.5	26.2	25.9	24.3	21.7	21.7	24.5	25.7	25.1	24.8	25.2	+0.4
Race/Ethnicity (2-year average): <sup>c</sup>																								
White	—	22.4	23.7	27.9	32.6	36.5	39.3	38.2	36.4	36.9	37.6	37.6	35.0	32.2	31.0	30.2	29.4	28.0	27.9	29.2	30.0	29.7	29.2	-0.4
African American	—	10.8	11.9	18.5	23.6	27.3	30.2	28.9	28.4	29.7	30.5	28.5	27.3	29.3	29.0	26.2	24.2	22.4	23.5	26.6	29.6	30.6	32.5	+1.9
Hispanic	—	23.6	26.3	30.3	34.3	40.0	41.3	38.1	38.4	39.3	38.8	36.2	33.8	34.5	32.8	28.5	27.3	30.1	33.1	34.0	33.5	34.3	36.3	+1.9

<sup>a</sup>Source. The Monitoring the Future study, the University of Michigan.

Notes. Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Use of any illicit drug includes any use of marijuana, LSD, other hallucinogens, crack, other cocaine, or heroin; or any use of amphetamines or tranquilizers not under a doctor's orders. The use of narcotics other than heroin and sedatives (barbiturates) has been excluded because 8th and 10th graders appear to overreport their use (perhaps because they include the use of nonprescription drugs in their answers).

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 3**  
**ANY ILLICIT DRUG: a,b**  
**Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																				→ (Years cont.)
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	
<i>Approximate weighted N =</i>	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
Total	45.0	48.1	51.1	53.8	54.2	53.1	52.1	49.4	47.4	45.8	46.3	44.3	41.7	38.5	35.4	32.5	29.4	27.1	31.0	35.8	
Gender:																					
Male	49.0	52.6	55.4	58.6	58.1	56.0	53.6	51.8	49.7	48.0	48.3	45.7	43.2	40.6	37.7	34.3	32.1	29.0	33.5	38.6	
Female	41.4	43.0	46.7	48.7	50.1	49.8	50.8	46.3	44.4	42.8	43.8	42.3	39.7	36.1	32.8	30.1	26.2	24.7	27.9	32.7	
College Plans:																					
None or under 4 years	—	50.6	54.3	55.5	56.8	56.5	55.8	53.4	50.8	50.3	50.1	48.6	46.7	42.0	40.9	37.8	33.9	33.5	34.9	40.8	
Complete 4 years	—	44.3	46.8	50.5	50.5	49.7	48.6	45.5	43.7	41.4	43.1	41.2	39.0	36.5	32.6	29.6	27.1	24.4	29.2	33.6	
Region:																					
Northeast	51.5	55.3	56.8	61.6	62.9	58.9	58.8	55.1	53.8	54.7	53.2	49.7	45.8	41.2	36.0	36.4	31.9	28.7	36.1	39.4	
Midwest	45.5	47.6	51.9	54.6	55.0	53.1	53.4	50.3	46.9	42.4	45.7	45.0	42.7	39.7	38.7	34.0	31.3	27.8	30.8	36.5	
South	38.1	42.3	46.2	47.5	45.4	47.0	43.7	42.2	41.3	41.4	37.2	37.4	35.9	34.2	30.7	27.6	24.5	23.7	28.2	34.1	
West	48.3	49.7	50.0	53.2	56.4	55.8	55.5	51.7	50.7	49.1	53.3	47.8	45.7	41.8	39.5	34.4	32.6	31.1	31.8	34.7	
Population Density:																					
Large MSA	54.5	54.6	56.3	60.3	61.3	59.9	57.8	54.8	52.0	49.7	49.9	48.0	43.9	39.1	32.9	32.6	28.6	26.8	32.9	36.4	
Other MSA	45.0	47.8	52.4	54.5	55.2	53.8	52.1	49.8	49.6	46.7	46.5	45.1	42.7	40.5	36.3	33.5	33.0	27.3	31.7	37.8	
Non-MSA	38.8	43.7	45.2	47.4	47.6	47.0	47.6	44.0	41.1	41.4	43.0	40.0	37.6	34.3	36.0	30.1	23.8	27.0	28.4	31.6	
Parental Education: c																					
1.0–2.0 (Low)	—	43.4	45.3	47.7	50.2	49.5	48.1	44.3	45.1	42.7	42.8	38.1	35.4	35.8	28.4	26.6	28.7	27.7	29.5	32.9	
2.5–3.0	—	49.2	51.8	53.3	53.2	53.0	51.2	48.8	46.3	45.7	46.0	44.8	41.8	37.2	35.3	32.7	28.7	26.4	29.2	35.4	
3.5–4.0	—	48.9	53.1	55.1	56.1	54.2	52.8	50.8	46.5	47.6	47.2	45.6	42.2	38.6	37.7	33.8	29.6	28.1	31.6	36.4	
4.5–5.0	—	50.8	51.7	56.3	57.1	54.0	53.4	49.7	48.9	44.9	48.4	44.7	43.1	40.0	35.5	33.1	28.7	26.2	31.5	36.5	
5.5–6.0 (High)	—	51.3	51.8	59.1	54.3	55.0	54.8	48.5	46.1	45.5	44.5	44.5	43.5	40.6	36.3	33.3	31.9	26.8	33.4	35.7	
Race/Ethnicity (2-year average): d																					
White	—	—	50.4	53.5	55.2	54.9	54.4	50.7	49.3	47.4	47.6	47.2	45.2	43.0	40.3	37.5	33.9	30.5	31.4	35.5	
African American	—	—	40.8	42.8	41.5	40.5	39.0	36.4	38.5	37.8	35.9	33.3	28.9	25.0	21.3	17.0	14.7	14.5	16.6	23.5	
Hispanic	—	—	49.9	49.5	48.4	48.1	46.8	42.7	42.0	43.1	43.9	42.8	38.9	35.4	30.1	26.4	29.4	30.3	28.8	31.2	

(Table continued on next page.)

**TABLE 3 (cont.)**  
**ANY ILLICIT DRUG:** <sup>a,b</sup>  
**Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			2012– 2013 change	
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
Approximate weighted N =	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	39.0	40.2	42.4	41.4	42.1	40.9	41.4	41.0	39.3	38.8	38.4	36.5	35.9	36.6	36.5	38.3	40.0	39.7	40.3	+0.6	
Gender:																					
Male	41.5	43.4	44.1	45.2	45.0	43.4	43.8	43.5	41.3	41.4	42.1	37.5	38.4	38.8	39.9	41.4	43.2	43.5	43.2	-0.3	
Female	35.8	36.2	40.0	37.2	38.9	38.0	38.4	37.8	36.7	35.9	34.5	35.0	33.2	34.1	33.2	34.7	36.2	35.1	36.7	+1.6	
College Plans:																					
None or under 4 years	44.1	46.2	48.8	47.3	47.9	45.1	46.2	46.2	46.8	44.4	46.5	46.1	43.7	46.0	42.7	46.5	46.6	44.3	46.4	+2.2	
Complete 4 years	36.7	37.8	40.1	39.1	40.3	38.8	39.6	39.3	36.6	36.8	36.1	33.8	34.0	34.2	34.9	36.1	38.2	38.2	38.5	+0.3	
Region:																					
Northeast	41.7	44.6	47.7	46.2	42.5	46.2	47.4	45.7	43.7	43.9	43.2	42.0	41.9	40.0	40.5	44.1	42.8	40.9	44.4	+3.5	
Midwest	40.9	40.9	40.6	38.1	42.1	38.9	42.0	41.6	40.0	38.2	38.8	36.3	37.3	35.1	36.5	36.3	37.9	35.3	35.4	+0.1	
South	36.4	37.6	38.8	40.5	40.8	35.3	37.3	38.1	34.8	35.7	36.6	34.9	33.6	36.0	34.7	36.2	37.0	37.5	38.6	+1.0	
West	38.2	39.1	45.9	43.1	44.2	47.4	41.9	40.5	41.4	39.6	36.3	34.6	33.4	36.5	36.0	38.9	44.4	46.1	44.7	-1.4	
Population Density:																					
Large MSA	41.7	41.3	42.1	42.0	42.4	41.1	43.9	41.9	35.7	36.3	38.5	38.2	37.9	37.7	40.2	39.9	41.5	43.0	43.3	+0.3	
Other MSA	39.0	42.3	44.2	42.1	43.3	42.6	41.0	42.4	42.7	42.4	39.8	36.7	35.1	35.7	35.8	39.4	41.3	40.3	41.4	+1.2	
Non-MSA	35.9	35.4	39.2	39.3	39.9	37.5	39.4	37.1	37.6	34.9	35.5	33.5	34.7	37.2	33.4	33.2	34.6	32.9	33.0	+0.1	
Parental Education: <sup>c</sup>																					
1.0–2.0 (Low)	37.7	36.6	40.3	38.9	40.9	41.3	38.8	35.3	35.8	34.7	32.0	37.6	35.6	34.6	33.0	36.9	40.3	45.4	42.5	-3.0	
2.5–3.0	38.3	39.9	40.8	40.5	43.7	40.5	41.9	39.3	39.0	37.7	38.9	38.2	37.8	37.5	37.4	39.2	40.5	40.9	42.5	+1.6	
3.5–4.0	38.8	40.4	42.0	42.9	42.9	41.6	42.7	43.2	41.3	42.1	41.3	37.1	35.0	35.9	38.4	40.6	41.7	40.8	42.4	+1.7	
4.5–5.0	39.0	40.5	43.6	40.9	40.0	39.6	41.3	42.0	38.9	38.2	38.8	33.2	34.9	36.5	35.4	37.9	38.5	38.5	36.9	-1.6	
5.5–6.0 (High)	40.7	40.6	44.0	41.8	42.3	41.1	40.1	40.6	36.5	37.4	36.0	37.3	36.9	36.7	36.6	32.6	37.9	34.8	38.3	+3.4	
Race/Ethnicity (2-year average): <sup>d</sup>																					
White	39.0	40.8	42.8	44.0	43.3	42.8	43.1	43.6	42.8	42.0	41.6	40.0	38.5	38.7	38.7	38.8	40.2	40.3	39.3	-1.0	
African American	29.6	32.4	33.0	32.3	32.8	32.7	31.7	30.4	28.3	27.7	29.0	30.0	28.7	28.6	30.4	33.1	34.8	35.0	37.7	+2.7	
Hispanic	35.5	38.0	41.2	41.9	42.5	44.8	41.8	39.0	35.8	34.4	34.5	34.2	32.2	31.4	32.6	34.5	37.5	40.5	42.2	+1.7	

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

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

<sup>b</sup>Beginning in 1982 the question about amphetamine use was revised to get respondents to exclude the inappropriate reporting of nonprescription amphetamines. The prevalence-of-use rate dropped slightly as a result of this methodological change.

<sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 4**  
**ANY ILLICIT DRUG OTHER THAN MARIJUANA: <sup>a</sup>**  
**Trends in Annual Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 12 months																						2012–	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001 <sup>b</sup>	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	change
<i>Approximate weighted N =</i>	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	8.4	9.3	10.4	11.3	12.6	13.1	11.8	11.0	10.5	10.2‡	10.8	8.8	8.8	7.9	8.1	7.7	7.0	7.4	7.0	7.1	6.4	5.5	5.8	+0.3
Gender:																								
Male	8.0	8.0	9.2	10.1	11.5	11.0	10.8	9.6	9.7	9.1‡	10.0	8.1	7.9	7.0	6.6	6.5	5.9	6.0	6.6	6.4	6.1	4.8	4.8	0.0
Female	8.8	10.4	11.5	12.3	13.5	14.7	12.6	12.1	11.2	10.9‡	11.2	9.3	9.4	8.8	9.3	8.7	8.0	8.7	7.3	7.7	6.5	6.0	6.6	+0.6
College Plans:																								
None or under 4 years	16.3	18.5	21.3	21.2	25.3	23.0	22.1	23.8	23.4	22.7‡	21.5	19.7	20.0	18.0	18.2	17.7	18.1	20.3	18.2	16.4	17.2	13.0	14.0	+1.0
Complete 4 years	7.2	8.0	8.9	9.9	10.9	11.6	10.6	9.4	9.0	8.7‡	9.5	7.6	7.5	6.9	7.0	6.7	6.0	6.3	6.0	6.3	5.5	4.9	5.2	+0.3
Region:																								
Northeast	6.8	6.6	8.2	10.3	10.7	11.3	9.5	8.5	8.5	8.0‡	9.5	5.8	7.1	5.9	5.8	4.4	4.4	5.2	5.0	4.6	4.4	4.1	4.4	+0.3
Midwest	8.6	10.4	9.4	10.2	14.0	14.3	12.5	10.5	11.9	11.2‡	9.9	8.7	8.7	7.7	8.1	7.1	7.4	7.6	6.7	7.0	6.0	3.7	4.7	+1.0
South	8.6	9.7	11.0	11.7	12.5	12.6	11.8	12.5	11.2	10.3‡	12.4	10.6	10.0	9.0	9.5	9.8	7.8	8.8	8.4	8.3	6.7	7.3	7.0	-0.2
West	9.3	9.8	13.4	12.7	12.7	14.0	13.0	11.1	9.3	10.5‡	10.1	8.4	7.9	8.2	7.7	7.4	6.9	6.7	6.3	7.0	7.8	5.4	6.0	+0.6
Population Density:																								
Large MSA	8.0	8.1	8.8	9.8	8.7	12.3	9.9	8.9	8.4	8.5‡	9.7	7.4	7.1	6.9	7.1	6.6	6.1	6.8	5.5	5.7	5.7	5.1	5.4	+0.3
Other MSA	8.6	10.4	11.8	12.5	13.5	14.1	12.2	11.2	10.7	10.1‡	11.8	9.2	8.7	8.5	8.8	8.0	7.6	7.7	7.8	8.0	7.0	6.1	6.0	-0.1
Non-MSA	8.6	8.9	9.8	9.8	13.2	12.1	13.0	12.8	12.8	12.3‡	10.3	9.8	11.0	8.0	8.1	8.8	7.1	7.6	7.1	6.9	6.0	5.0	6.1	+1.1
Parental Education: <sup>c</sup>																								
1.0–2.0 (Low)	12.9	12.9	14.4	15.6	18.0	15.5	14.8	17.3	16.0	15.8‡	14.3	13.0	14.1	15.2	14.3	12.3	11.9	13.6	12.4	11.5	10.7	8.3	9.3	+1.0
2.5–3.0	8.5	10.1	11.8	12.4	14.2	13.9	12.9	12.2	12.1	12.2‡	13.2	10.9	10.9	8.8	10.3	9.4	8.3	9.7	8.7	8.8	9.1	7.2	6.4	-0.8
3.5–4.0	8.7	10.1	10.6	11.8	14.2	14.5	12.5	11.2	11.3	10.6‡	11.7	9.0	9.0	8.4	9.0	8.4	7.8	8.0	7.4	7.3	7.0	6.5	7.1	+0.6
4.5–5.0	7.1	7.5	9.1	9.5	9.7	12.0	10.6	9.4	8.5	7.7‡	8.9	7.6	6.7	6.8	5.7	6.0	4.7	5.4	5.4	6.0	4.6	3.5	4.7	+1.2
5.5–6.0 (High)	7.8	8.0	8.2	9.4	10.1	11.7	10.3	9.5	8.3	8.4‡	8.0	6.5	6.8	5.9	5.3	6.2	5.5	5.7	5.1	4.7	4.3	4.4	4.1	-0.3
Race/Ethnicity (2-year average): <sup>d</sup>																								
White	—	9.0	10.0	10.8	12.6	13.9	13.5	12.5	11.5	11.1	10.6‡	10.3 <sup>e</sup>	9.3	8.7	8.1	8.1	7.6	7.6	7.5	7.2	6.7	5.6	4.9	-0.7
African American	—	4.9	5.0	5.9	5.7	5.3	4.7	4.0	4.1	3.8	3.9‡	4.4 <sup>e</sup>	4.4	4.4	4.2	3.9	3.3	3.4	4.1	4.0	3.8	3.9	4.0	+0.1
Hispanic	—	12.2	13.7	15.2	15.3	14.7	13.6	13.5	14.5	13.9	12.2‡	11.9 <sup>e</sup>	10.8	10.4	9.9	9.2	8.6	8.4	8.6	8.7	8.7	8.1	7.4	-0.7

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

*Notes.* ' ‡ ' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: *s* = .05, *ss* = .01, *sss* = .001.

' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases.

See appendix B for definition of variables in table.

<sup>a</sup>Use of any illicit drug other than marijuana includes any use of LSD, other hallucinogens, crack, other cocaine, or heroin; or any use of amphetamines or tranquilizers not under a doctor's orders. The use of narcotics other than heroin and sedatives (barbiturates) has been excluded because 8th and 10th graders appear to overreport their use (perhaps because they include the use of nonprescription drugs in their answers).

<sup>b</sup>In 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. For the tranquilizer list of examples, Miltown was replaced with Xanax. The 2001 data are based on the changed forms only; *N* is one half of *N* indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

<sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>e</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.



**TABLE 5**  
**ANY ILLICIT DRUG OTHER THAN MARIJUANA:** <sup>a</sup>  
**Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months																						2012– 2013	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001 <sup>b</sup>	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	change
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	12.2	12.3	13.9	15.2	17.5	18.4	18.2	16.6	16.7	16.7‡	17.9	15.7	13.8	13.5	12.9	12.7	13.1	11.3	12.2	12.1	11.2	10.8	10.9	0.0
Gender:																								
Male	11.2	11.1	13.4	14.1	15.8	17.2	17.2	15.6	15.9	16.7‡	18.3	15.1	13.0	12.7	12.0	12.0	12.9	10.9	11.8	12.3	12.2	11.3	12.2	+0.9
Female	13.1	13.2	14.3	16.0	18.9	19.6	19.1	17.5	17.3	16.6‡	17.4	16.4	14.3	14.2	13.6	13.1	13.2	11.5	12.3	11.8	10.0	10.4	9.5	-0.9
College Plans:																								
None or under 4 years	19.6	20.2	23.1	24.0	27.5	29.5	29.6	27.8	27.3	27.7‡	32.1	27.1	23.8	25.3	24.0	24.7	25.0	22.9	25.4	24.5	24.1	24.5	19.4	-5.1 s
Complete 4 years	10.7	10.5	12.0	13.3	15.7	16.5	16.3	14.6	15.0	15.0‡	15.5	14.0	12.1	11.9	11.4	11.1	11.5	9.8	10.7	10.7	9.7	9.4	10.0	+0.5
Region:																								
Northeast	10.6	9.6	12.8	13.7	14.1	17.2	16.0	17.2	18.2	14.7‡	16.2	13.4	11.7	13.7	13.0	10.4	11.3	8.2	9.0	9.8	9.4	9.3	8.3	-1.0
Midwest	13.2	12.9	12.8	14.8	19.0	20.0	16.2	14.4	16.1	15.8‡	16.5	15.3	13.1	12.0	12.2	12.7	13.4	11.8	11.5	12.0	10.8	10.4	10.7	+0.3
South	11.9	12.2	14.7	15.3	18.4	18.6	20.8	18.3	16.8	17.5‡	19.5	16.8	15.7	14.8	13.9	13.7	13.3	12.6	13.6	12.4	12.2	12.4	11.6	-0.8
West	12.7	14.1	15.6	17.2	17.2	17.4	18.7	15.8	15.7	18.5‡	19.0	16.7	13.8	13.5	12.0	13.3	13.8	11.5	13.7	14.1	11.7	10.3	12.0	+1.7
Population Density:																								
Large MSA	11.8	11.4	12.2	13.1	13.5	16.8	16.3	14.6	15.0	17.2‡	15.6	14.3	10.8	10.4	10.9	11.5	12.0	9.9	10.7	11.2	10.4	10.0	9.6	-0.4
Other MSA	12.3	12.3	14.1	16.1	18.5	19.5	18.0	16.6	17.3	15.6‡	17.4	16.5	14.2	15.1	13.2	12.9	13.4	12.1	13.4	12.6	11.2	10.9	12.0	+1.1
Non-MSA	12.4	13.1	15.0	14.6	17.6	18.3	20.8	18.9	17.5	18.1‡	21.5	16.1	17.2	14.5	14.7	14.1	14.0	11.8	11.7	12.7	12.6	11.9	10.0	-1.9
Parental Education: <sup>c</sup>																								
1.0–2.0 (Low)	14.4	16.6	18.1	17.1	20.8	22.7	19.1	21.5	19.2	20.4‡	19.6	21.0	19.1	16.5	15.9	16.0	15.6	15.2	18.3	15.8	13.3	16.8	14.5	-2.3
2.5–3.0	13.7	12.5	14.6	16.3	19.7	19.4	19.9	19.1	19.1	19.4‡	20.3	18.3	16.7	15.6	14.4	14.9	15.2	13.2	13.6	14.8	13.1	11.7	12.2	+0.5
3.5–4.0	12.1	12.7	14.8	15.9	18.3	19.9	19.8	16.4	16.5	17.4‡	19.7	16.1	14.5	14.6	13.7	13.4	14.2	12.7	13.0	12.9	12.0	10.9	12.0	+1.1
4.5–5.0	11.0	10.9	11.7	13.3	15.9	16.6	16.5	14.1	15.4	14.5‡	15.6	13.7	11.2	11.6	11.5	10.7	11.6	9.0	9.9	10.2	9.6	9.7	9.1	-0.5
5.5–6.0 (High)	11.6	10.7	12.2	12.8	13.4	15.4	15.4	14.4	15.6	14.5‡	14.6	12.2	10.5	11.0	10.8	11.1	9.9	8.6	10.6	9.4	9.2	9.1	9.3	+0.2
Race/Ethnicity (2-year average): <sup>d</sup>																								
White	—	13.7	14.4	15.4	17.7	20.0	20.5	19.7	18.7	18.6	19.2‡	18.9 <sup>e</sup>	17.2	15.7	14.9	14.4	14.5	13.8	12.9	13.0	12.5	11.5	11.2	-0.3
African American	—	4.3	4.6	5.4	5.4	4.5	4.8	4.7	4.5	4.2	4.7‡	5.7 <sup>e</sup>	4.7	4.6	4.8	4.9	4.2	4.1	4.3	5.0	5.5	5.8	6.5	+0.7
Hispanic	—	11.8	13.7	16.1	16.9	18.8	19.1	17.5	17.9	17.8	15.8‡	15.7 <sup>e</sup>	15.2	15.1	14.9	13.0	11.8	12.4	13.2	13.5	12.9	12.6	12.4	-0.3

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

Notes. ‡ indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001.

— indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases.

See appendix B for definition of variables in table.

<sup>a</sup>Use of any illicit drug other than marijuana includes any use of LSD, other hallucinogens, crack, other cocaine, or heroin; or any use of amphetamines or tranquilizers not under a doctor's orders. The use of narcotics other than heroin and sedatives (barbiturates) has been excluded because 8th and 10th graders appear to overreport their use (perhaps because they include the use of nonprescription drugs in their answers).

<sup>b</sup>In 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. For the tranquilizer list of examples, Miltown was replaced with Xanax. The 2001 data are based on the changed forms only; N is one half of N indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

<sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>e</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

**TABLE 6**  
**ANY ILLICIT DRUG OTHER THAN MARIJUANA** <sup>a,b</sup>  
**Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			(Years cont.)	
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993		1994
<i>Approximate weighted N =</i>	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
<b>Total</b>	26.2	25.4	26.0	27.1	28.2	30.4	34.0	30.1	28.4	28.0	27.4	25.9	24.1	21.1	20.0	17.9	16.2	14.9	17.1	18.0	
<b>Gender</b>																					
Male	25.9	25.7	26.3	27.9	29.4	30.2	32.8	31.0	28.9	28.2	27.9	26.2	24.3	22.2	21.0	19.2	17.0	15.5	17.8	18.5	
Female	26.2	24.4	25.3	25.7	26.3	30.0	34.3	28.3	27.3	26.9	26.2	24.8	23.3	19.3	18.5	16.0	14.8	13.8	15.8	16.9	
<b>College Plans</b>																					
None or under 4 years	—	28.7	30.1	30.0	31.8	35.5	38.3	34.0	32.3	32.9	31.6	31.3	28.8	24.5	25.5	23.1	20.1	19.5	19.8	22.9	
Complete 4 years	—	20.9	20.8	22.7	23.5	25.5	30.1	26.0	24.7	23.3	24.1	22.2	21.3	19.0	17.2	15.2	14.3	13.0	15.9	16.0	
<b>Region</b>																					
Northeast	26.0	26.1	27.8	30.7	32.0	32.1	38.0	33.5	31.2	33.8	32.9	29.5	25.5	20.2	19.2	17.1	15.6	14.7	18.6	17.2	
Midwest	29.2	26.1	27.7	26.8	27.6	30.9	36.1	31.1	28.6	26.1	25.9	25.1	22.7	20.3	21.5	18.0	17.4	15.5	16.4	20.1	
South	22.5	23.4	22.9	24.0	23.2	25.8	26.1	24.7	23.8	24.2	21.0	20.6	21.1	20.0	18.1	16.9	14.4	14.0	16.0	17.3	
West	28.2	26.6	26.0	28.8	33.3	35.2	38.7	32.7	33.0	31.3	33.0	31.6	29.5	24.8	22.3	20.4	17.9	15.8	18.5	17.3	
<b>Population Density</b>																					
Large MSA	30.3	27.5	27.1	30.2	32.1	34.6	38.3	33.8	31.5	30.5	30.4	28.3	24.5	20.7	16.9	16.0	14.2	13.5	15.1	16.7	
Other MSA	26.3	25.8	26.8	27.3	28.7	30.1	33.3	30.0	29.7	27.8	26.9	26.4	24.5	22.7	20.9	18.5	17.9	14.9	18.2	19.2	
Non-MSA	23.4	23.3	24.2	24.2	24.7	27.5	31.4	27.0	24.4	26.2	25.5	23.1	23.0	18.4	21.1	18.4	14.9	16.1	16.8	17.2	
<b>Parental Education</b> <sup>c</sup>																					
1.0–2.0 (Low)	—	23.2	23.2	24.7	25.2	28.2	29.2	25.7	25.6	27.3	25.8	23.2	21.5	19.7	18.2	15.2	17.4	14.9	15.6	17.8	
2.5–3.0	—	25.6	27.0	26.4	27.6	30.7	33.5	30.4	28.1	28.2	27.4	27.0	24.2	20.5	20.0	17.9	16.8	15.0	16.1	18.5	
3.5–4.0	—	26.1	26.2	27.8	29.2	30.7	34.7	30.9	28.6	29.3	28.9	26.6	24.7	20.5	21.4	19.1	16.3	15.0	17.8	17.6	
4.5–5.0	—	27.2	25.9	27.3	28.7	29.9	34.8	29.4	30.0	26.2	27.1	24.9	23.8	21.7	19.3	17.5	14.6	14.3	17.5	18.4	
5.5–6.0 (High)	—	25.6	24.8	28.6	30.4	30.8	36.7	31.3	29.0	26.2	23.8	23.8	24.9	22.0	19.6	17.2	14.9	14.3	17.6	16.5	
<b>Race/Ethnicity (2-year average)</b> <sup>d</sup>																					
White	—	—	26.6	27.7	28.8	30.6	34.5	32.1	31.2	30.2	29.6	28.2	26.6	24.4	22.5	21.0	18.7	17.1	17.9	19.4	
African American	—	—	14.2	13.4	13.0	13.8	13.2	14.5	15.2	12.9	12.0	12.1	11.1	10.3	8.6	6.5	5.7	5.3	4.8	6.1	
Hispanic	—	—	23.8	23.5	23.3	24.7	27.6	25.5	25.2	26.2	27.2	26.2	23.0	20.5	17.7	15.6	15.8	15.1	15.6	16.5	

(Table continued on next page.)

**TABLE 6 (cont.)**  
**ANY ILLICIT DRUG OTHER THAN MARIJUANA: <sup>a,b</sup>**  
**Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			2012– 2013 change
	1995	1996	1997	1998	1999	2000	2001 <sup>e</sup>	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
Total	19.4	19.8	20.7	20.2	20.7	20.4‡	21.6	20.9	19.8	20.5	19.7	19.2	18.5	18.3	17.0	17.3	17.6	17.0	17.3	+0.3
Gender:																				
Male	20.7	21.7	21.7	21.7	22.5	21.5‡	23.3	22.0	21.1	21.5	21.4	19.7	20.0	19.9	18.8	19.3	19.1	18.4	18.9	+0.5
Female	17.3	16.8	18.8	18.0	18.5	18.6‡	19.0	19.0	17.9	18.7	17.5	18.3	16.7	16.2	14.9	15.0	15.5	14.9	15.1	+0.1
College Plans:																				
None or under 4 years	23.9	24.2	25.8	26.5	24.4	24.7‡	24.5	27.2	26.5	26.0	25.3	25.4	26.0	25.0	22.1	23.6	25.1	19.4	23.5	+4.1 s
Complete 4 years	17.5	17.9	18.4	17.8	19.4	18.5‡	19.9	19.0	17.4	18.4	18.0	17.4	16.7	16.5	15.7	15.7	15.8	16.1	15.6	-0.6
Region:																				
Northeast	20.2	22.9	24.1	20.7	19.5	21.7‡	22.4	21.5	19.3	20.4	18.0	20.3	19.4	18.9	16.8	17.6	16.4	15.1	16.4	+1.3
Midwest	19.1	19.2	18.9	19.8	20.9	18.9‡	24.0	19.9	18.7	19.1	21.4	17.9	18.4	16.8	19.1	16.9	17.5	17.2	17.2	0.0
South	19.0	18.6	19.8	20.3	21.2	19.0‡	18.6	21.3	19.4	20.8	20.5	19.7	18.8	19.1	16.4	17.4	16.2	16.0	17.0	+0.9
West	19.9	19.2	20.9	20.0	20.8	23.2‡	22.6	21.1	22.4	21.9	18.0	19.1	17.3	18.1	15.6	17.4	20.6	19.5	18.5	-0.9
Population Density:																				
Large MSA	20.2	18.9	18.6	19.0	17.6	19.4‡	23.6	20.6	15.9	18.0	18.6	20.1	18.4	16.9	15.9	17.3	16.6	18.3	17.2	-1.1
Other MSA	19.2	20.2	21.5	20.4	21.6	20.9‡	21.2	21.6	22.0	22.3	20.6	18.7	18.1	18.2	17.4	17.7	18.6	17.2	18.7	+1.5
Non-MSA	18.7	19.8	21.2	21.3	22.4	20.7‡	20.3	20.2	20.9	19.7	19.3	18.9	19.5	19.8	17.4	16.3	16.7	14.7	14.2	-0.5
Parental Education: <sup>c</sup>																				
1.0–2.0 (Low)	19.4	16.9	19.9	20.0	22.2	20.0‡	17.3	17.8	19.4	18.7	14.8	19.7	16.7	16.4	14.7	14.9	16.0	16.5	16.5	-0.1
2.5–3.0	19.4	19.7	19.4	20.1	21.0	19.9‡	20.9	20.3	19.6	20.0	20.5	19.4	19.7	17.7	17.3	17.7	16.6	18.0	17.4	-0.6
3.5–4.0	19.2	19.8	20.4	21.0	21.9	20.5‡	24.5	22.0	21.7	23.0	21.5	20.2	18.4	18.7	17.6	18.4	18.8	17.6	18.2	+0.6
4.5–5.0	19.4	19.3	21.0	19.1	19.3	20.1‡	20.1	21.2	18.5	19.7	19.7	18.6	18.5	18.2	17.8	16.8	16.6	16.8	16.4	-0.4
5.5–6.0 (High)	18.3	20.2	21.7	18.9	19.4	20.3‡	18.7	19.8	17.0	17.6	17.5	18.0	17.4	17.9	15.4	15.7	18.3	15.2	17.7	+2.4
Race/Ethnicity (2-year average): <sup>d</sup>																				
White	20.3	21.2	22.3	23.1	22.9	22.7	23.0‡	24.1 <sup>f</sup>	23.0	22.8	22.7	22.0	21.6	21.5	20.5	19.9	20.0	19.6	18.7	-0.8
African American	6.9	6.0	6.4	7.1	6.8	6.4	6.3‡	6.0 <sup>f</sup>	6.3	6.5	7.1	7.2	7.0	7.0	6.8	8.3	8.7	7.6	9.5	+1.9
Hispanic	17.9	19.7	18.9	17.5	18.5	21.2	18.2‡	16.1 <sup>f</sup>	16.0	16.2	16.7	17.3	15.8	13.7	13.6	12.8	12.8	13.6	14.7	+1.1

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

Notes. † ‡ indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

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

<sup>b</sup>Beginning in 1982 the question about amphetamine use was revised to get respondents to exclude the inappropriate reporting of nonprescription amphetamines. The prevalence-of-use rate dropped slightly as a result of this methodological change.

<sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>e</sup>In 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens and shrooms was added to the list of examples. For the tranquilizer list of examples, Miltown was replaced with Xanax. The 2001 data are based on the changed forms only; *N* is one half of *N* indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

<sup>f</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

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

	Percentage who ever used																							2012– 2013 change
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	10.2	11.2	12.6	16.7	19.9	23.1	22.6	22.2	22.0	20.3	20.4	19.2	17.5	16.3	16.5	15.7	14.2	14.6	15.7	17.3	16.4	15.2	16.5	+1.3
Gender:																								
Male	11.9	11.9	14.5	19.6	22.5	25.5	24.7	24.3	24.3	22.2	23.6	22.2	19.3	17.6	18.0	17.1	15.2	16.3	17.9	18.9	18.1	16.5	17.0	+0.5
Female	8.3	10.3	10.8	13.7	17.2	20.5	20.2	19.6	19.8	18.1	17.2	16.2	15.6	14.9	14.8	14.0	12.8	12.7	13.4	15.8	14.1	13.6	15.6	+2.0
College Plans:																								
None or under 4 years	22.9	24.5	27.9	33.1	36.2	41.6	41.8	43.5	44.1	41.2	40.8	39.8	38.0	36.9	38.5	35.4	35.3	35.0	32.2	36.8	35.5	32.9	34.3	+1.3
Complete 4 years	8.1	9.0	10.4	14.3	17.7	20.2	19.9	19.4	19.1	17.6	17.9	17.1	15.2	14.1	14.0	13.6	12.2	12.7	14.3	15.7	14.8	13.8	15.2	+1.4
Region:																								
Northeast	7.4	9.2	8.8	15.3	16.0	19.9	20.2	15.6	18.2	17.3	18.7	15.2	13.7	13.6	12.8	12.6	8.8	11.7	14.2	15.5	10.4	10.0	13.1	+3.1
North Central	9.9	9.4	11.5	15.6	21.7	23.1	21.3	23.7	24.6	21.0	18.3	17.9	16.8	15.4	17.6	15.6	13.5	16.6	15.3	15.1	13.8	12.2	13.3	+1.1
South	10.8	11.8	12.5	14.9	19.4	22.1	22.7	23.9	23.0	20.5	22.4	22.1	20.0	18.0	18.5	18.4	16.6	15.8	17.2	19.9	17.8	17.6	19.4	+1.8
West	12.4	15.1	18.7	22.7	22.4	27.4	25.9	23.1	20.6	21.5	20.7	19.5	17.5	16.8	15.0	13.6	14.0	12.9	14.9	16.6	21.5	18.3	17.4	-0.9
Population Density:																								
Large MSA	8.9	10.5	10.6	16.7	19.6	24.0	21.6	20.4	20.5	18.8	17.3	17.3	17.1	15.0	15.7	14.7	11.6	12.9	13.1	16.5	14.7	14.4	17.4	+3.0 s
Other MSA	11.4	12.6	15.0	19.8	21.2	24.6	23.2	22.9	21.2	19.4	22.3	19.7	17.1	17.0	17.1	16.2	15.3	15.9	17.1	18.3	17.8	15.8	15.0	-0.8
Non-MSA	9.3	9.4	10.1	11.0	18.1	19.1	22.4	22.7	25.6	23.8	20.3	20.7	18.9	16.7	16.3	16.2	15.4	14.2	16.3	16.3	16.1	15.3	18.2	+2.9
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	20.6	19.9	18.6	24.9	28.7	26.6	31.6	30.6	35.1	32.7	31.8	31.2	31.1	25.7	25.3	25.6	26.6	24.5	24.1	26.2	27.8	27.8	29.1	+1.3
2.5–3.0	11.9	13.6	14.6	18.1	23.0	25.9	25.7	26.0	28.3	25.0	25.3	25.5	22.2	21.7	23.0	20.8	19.8	19.7	21.2	23.1	23.0	22.2	23.4	+1.1
3.5–4.0	10.1	10.4	13.3	16.8	21.4	25.2	25.0	23.9	21.7	20.7	22.0	19.8	18.3	17.0	17.5	17.2	15.5	16.0	17.2	18.9	18.1	16.7	18.6	+1.9
4.5–5.0	6.6	7.9	10.0	13.8	16.3	20.1	19.8	17.9	16.2	14.8	15.3	14.9	12.7	12.7	11.7	11.1	9.2	11.0	11.4	13.3	11.7	10.6	11.6	+1.0
5.5–6.0 (High)	6.7	7.3	8.7	14.1	14.9	18.8	15.5	16.8	15.2	14.6	12.8	11.8	11.3	10.5	9.8	9.3	6.5	8.3	9.7	10.3	8.6	7.6	9.4	+1.8
Race (2-year average): <sup>b</sup>																								
White	—	9.9	11.0	12.9	16.6	20.5	22.0	21.1	20.0	19.0	18.5	18.0	16.6	15.1	14.6	14.1	12.9	12.5	13.3	14.4	14.3	12.7	11.7	-1.0
Black	—	7.4	9.3	13.2	17.1	19.7	21.7	23.0	23.9	23.8	22.2	20.2	19.7	19.9	20.5	19.5	16.4	15.9	18.1	19.9	18.9	17.2	18.9	+1.7
Hispanic	—	19.0	20.3	23.3	26.3	27.2	28.6	29.6	29.7	27.1	26.2	27.4	26.1	23.7	20.5	19.3	19.1	18.1	18.5	20.4	21.8	22.8	22.1	-0.7

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

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

Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S1 for the number of subgroup cases.

See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 8**  
**MARIJUANA: Trends in Lifetime Prevalence of Use by Subgroups in Grade 10**

	Percentage who ever used																						2012– 2013 change	
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	
<i>Approximate weighted N =</i>	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	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	+2.1
Gender:																								
Male	25.3	23.3	27.0	33.6	36.2	42.3	45.1	41.6	43.3	44.2	43.9	41.7	38.5	37.2	36.1	32.9	33.5	31.7	35.8	36.9	37.8	37.1	38.9	+1.8
Female	21.4	19.3	21.7	26.8	31.6	37.3	39.3	37.6	38.4	36.3	36.4	35.8	34.1	32.9	31.8	30.6	28.4	28.0	29.0	29.8	31.2	30.6	32.6	+2.0
College Plans:																								
None or under 4 years	37.7	34.6	39.4	44.9	49.5	55.9	60.6	56.1	59.6	58.1	56.7	57.5	53.3	51.7	50.5	51.6	50.3	51.7	52.8	54.5	54.1	51.3	53.3	+2.0
Complete 4 years	20.2	18.4	21.1	27.1	31.4	37.0	39.2	36.5	37.8	37.5	37.4	35.7	33.5	32.8	31.7	29.2	28.3	27.0	30.0	30.9	32.2	31.9	33.9	+2.0
Region:																								
Northeast	22.3	19.3	26.5	30.0	33.1	39.6	41.2	41.9	41.0	37.4	38.8	38.2	36.1	36.0	35.0	30.6	30.6	31.5	29.4	30.8	33.7	35.7	32.7	-3.0
North Central	23.2	20.8	21.7	27.4	30.8	38.0	41.3	35.7	40.3	38.0	38.8	36.6	32.3	32.1	33.4	30.7	29.9	27.8	28.5	31.1	31.9	28.6	32.8	+4.2
South	21.3	19.4	23.1	29.8	34.9	41.3	41.9	39.8	39.6	39.8	39.6	38.0	38.9	37.4	35.6	33.0	30.7	31.1	35.0	35.2	35.7	34.5	38.6	+4.0
West	27.4	27.4	29.4	36.7	38.4	39.4	45.7	41.4	43.6	46.9	45.2	43.2	37.8	34.8	31.5	32.3	32.7	29.0	34.9	35.4	36.4	36.7	37.8	+1.1
Population Density:																								
Large MSA	23.6	20.5	23.5	30.9	32.4	38.3	42.2	36.8	40.3	39.9	36.4	37.0	35.6	33.6	33.2	29.6	31.0	30.1	31.4	31.2	32.5	33.8	34.1	+0.3
Other MSA	24.9	22.0	25.5	33.6	37.2	42.5	44.1	41.7	42.0	41.2	42.4	40.9	36.5	35.1	34.7	31.7	30.9	30.2	33.4	35.3	36.5	34.1	37.5	+3.3
Non-MSA	20.6	21.1	23.2	24.0	30.0	36.2	39.1	38.8	39.2	38.9	39.8	36.4	37.2	37.0	33.9	35.3	31.0	28.6	31.2	32.7	33.7	32.9	34.4	+1.5
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	30.3	28.7	32.0	35.8	39.3	40.8	46.2	43.2	49.0	46.1	44.0	45.9	43.1	45.6	40.1	41.7	37.4	39.7	43.8	43.6	44.4	47.5	45.3	-2.2
2.5–3.0	26.2	22.9	26.0	32.8	38.0	42.3	45.7	45.2	45.2	44.3	45.7	44.8	41.9	40.3	40.0	39.1	37.8	35.8	37.2	40.4	41.6	39.8	43.7	+3.8
3.5–4.0	23.4	21.4	24.6	30.8	35.5	42.4	44.8	40.1	40.9	44.0	40.6	38.1	37.9	37.6	34.9	33.0	32.8	32.3	33.9	35.5	36.9	35.6	38.1	+2.5
4.5–5.0	20.3	18.8	20.4	27.0	31.7	37.4	38.9	35.0	36.8	35.7	37.3	35.2	31.2	30.0	30.4	26.7	26.3	24.0	28.0	26.6	28.7	30.4	31.5	+1.2
5.5–6.0 (High)	20.0	17.7	21.9	25.9	26.8	34.7	35.4	33.8	36.2	32.7	33.8	31.4	29.7	27.5	28.2	25.0	22.2	21.8	25.1	27.0	25.9	26.2	26.5	+0.4
Race (2-year average): <sup>b</sup>																								
White	—	23.0	23.2	27.2	32.3	37.1	41.1	40.9	39.9	40.1	39.7	39.3	37.4	35.1	33.7	32.4	31.2	29.6	29.7	31.3	32.1	31.8	31.7	-0.1
Black	—	16.2	16.2	22.1	28.6	34.3	38.1	37.1	37.3	39.5	40.1	38.1	36.9	38.0	38.3	36.0	32.9	30.0	29.7	32.6	37.0	38.3	38.7	+0.4
Hispanic	—	26.9	28.8	33.5	37.5	42.2	46.5	46.6	46.5	46.0	44.9	41.9	39.4	39.9	38.8	34.7	32.1	34.8	37.8	38.9	38.9	40.4	42.9	+2.6

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

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

Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S2 for the number of subgroup cases.

See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

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

	Percentage who ever used																			→	
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	(Years cont.)
<i>Approximate weighted N =</i>	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
Total	47.3	52.8	56.4	59.2	60.4	60.3	59.5	58.7	57.0	54.9	54.2	50.9	50.2	47.2	43.7	40.7	36.7	32.6	35.3	38.2	
Gender:																					
Male	52.7	58.9	61.9	64.4	65.0	64.4	62.5	61.5	59.9	57.9	56.6	53.3	52.0	49.8	46.6	43.6	40.3	36.3	38.9	42.8	
Female	42.7	46.1	50.8	53.9	55.7	56.1	56.2	55.5	53.4	51.3	51.5	48.2	48.0	44.5	40.4	37.3	32.8	28.6	31.2	33.7	
College Plans:																					
None or under 4 years	—	55.3	59.6	61.4	62.9	64.3	63.5	63.8	61.2	60.7	59.1	56.0	57.0	53.6	51.5	48.0	43.6	41.8	41.7	44.6	
Complete 4 years	—	48.7	52.0	55.5	56.8	56.8	55.9	54.0	52.2	49.7	50.2	47.5	46.4	44.0	39.7	37.2	33.8	28.8	32.7	35.6	
Region:																					
Northeast	56.3	60.7	62.5	66.7	69.8	67.4	67.8	64.6	63.7	64.0	62.2	56.8	55.7	49.6	45.4	44.5	40.4	34.5	41.1	44.3	
North Central	46.9	52.1	56.0	60.6	60.9	60.2	59.9	59.8	57.0	52.3	53.8	52.0	50.1	48.0	46.8	42.6	39.3	32.1	34.5	37.3	
South	38.8	45.7	51.4	52.4	51.6	53.6	50.8	51.1	50.8	49.1	44.5	43.7	43.6	42.4	38.2	35.4	31.2	29.9	32.9	36.1	
West	52.5	55.9	57.1	59.0	62.1	62.9	63.2	61.7	59.2	59.8	60.4	53.8	55.1	52.0	48.4	43.0	39.3	36.8	35.7	37.7	
Population Density:																					
Large MSA	58.1	60.1	62.5	66.2	68.5	67.9	65.9	64.0	62.3	59.3	59.2	55.8	53.2	47.8	41.4	40.8	36.1	32.5	36.5	38.6	
Other MSA	48.1	52.3	57.7	60.2	62.0	61.0	59.6	59.6	58.8	56.0	54.6	51.5	52.0	49.7	45.0	42.5	41.4	32.6	36.3	40.7	
Non-MSA	39.6	47.8	49.7	51.9	52.1	53.9	54.6	53.1	50.5	49.8	49.3	45.9	43.5	41.9	43.2	36.9	29.4	32.7	32.7	33.2	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	42.3	47.8	50.1	53.1	56.5	57.3	56.5	55.4	56.2	52.6	52.9	47.0	46.1	48.0	39.5	38.1	38.0	36.6	34.6	35.4	
2.5–3.0	47.0	54.4	56.9	59.1	60.1	61.0	59.0	58.8	56.7	55.6	54.5	52.1	51.6	47.0	45.5	42.2	36.8	32.9	34.8	38.5	
3.5–4.0	45.6	53.2	58.8	60.5	61.9	60.8	60.0	60.7	56.6	56.3	55.6	51.7	51.0	47.9	45.6	42.1	36.8	33.2	36.7	39.3	
4.5–5.0	48.5	55.5	57.6	61.6	61.8	60.9	60.9	59.8	58.0	53.2	54.5	50.7	49.7	47.7	42.2	40.4	35.5	30.0	34.3	38.3	
5.5–6.0 (High)	46.9	57.3	56.9	63.3	61.5	62.0	61.6	58.4	56.7	53.7	50.0	49.5	49.5	45.0	40.7	37.9	38.0	29.6	34.9	37.6	
Race (2-year average): <sup>b</sup>																					
White	—	—	55.1	58.7	60.6	61.3	61.3	60.7	58.8	56.5	55.5	53.8	52.2	51.1	48.3	45.4	41.3	36.3	35.6	38.3	
Black	—	—	48.5	50.8	50.7	51.4	51.1	51.4	53.9	52.6	49.7	46.9	42.6	38.8	33.4	27.7	24.9	23.0	24.1	29.4	
Hispanic	—	—	55.6	54.7	55.3	56.7	53.9	53.9	54.4	54.5	53.4	51.0	47.7	46.0	42.8	38.5	39.9	40.5	36.8	36.6	

(Table continued on next page.)

**TABLE 9 (cont'd)**  
**MARIJUANA: Trends in Lifetime Prevalence of Use by Subgroups in Grade 12**

	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	2012– 2013 change	
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	41.7	44.9	49.6	49.1	49.7	48.8	49.0	47.8	46.1	45.7	44.8	42.3	41.8	42.6	42.0	43.8	45.5	45.2	45.5	+0.3	
Gender:																					
Male	45.2	48.6	52.0	53.2	52.1	51.5	51.9	50.7	50.1	48.5	49.1	43.7	44.8	44.8	45.4	47.1	48.7	49.2	49.1	-0.1	
Female	37.7	40.7	46.6	44.6	47.0	45.7	45.7	44.7	42.0	42.6	40.2	40.6	38.6	40.1	38.1	40.0	41.8	40.5	41.3	+0.8	
College Plans:																					
None or under 4 years	48.8	53.1	56.5	55.6	57.2	55.2	55.9	55.5	55.6	52.6	54.7	53.3	49.8	54.2	50.4	54.7	52.6	53.6	54.1	+0.5	
Complete 4 years	38.8	41.8	47.2	46.4	47.0	45.9	46.6	45.6	42.9	43.5	42.1	39.2	39.5	39.6	39.8	41.0	43.5	43.0	43.1	0.0	
Region:																					
Northeast	44.5	48.9	54.3	54.1	50.8	52.5	54.9	52.4	50.0	51.2	50.4	48.5	48.9	46.7	45.4	50.3	48.8	47.3	49.5	+2.2	
North Central	43.3	45.4	47.0	45.1	48.1	46.9	48.2	48.2	48.2	45.6	44.0	42.5	42.5	41.3	42.1	40.8	43.0	39.4	38.8	-0.6	
South	39.2	41.9	46.3	48.3	48.8	43.6	44.9	44.6	40.9	42.0	43.1	41.0	40.0	42.0	40.2	41.6	42.8	43.5	45.0	+1.5	
West	41.5	45.3	54.6	51.0	52.3	56.1	51.2	48.3	48.6	46.5	43.4	38.9	37.9	42.0	41.7	45.1	50.1	52.1	50.0	-2.1	
Population Density:																					
Large MSA	44.1	46.4	48.9	50.7	50.3	49.1	50.1	48.1	43.4	42.8	45.5	44.4	43.6	44.4	45.6	45.4	47.9	48.1	48.5	+0.4	
Other MSA	42.1	47.8	52.6	50.3	50.6	50.2	49.1	50.5	49.5	49.3	45.9	42.3	41.2	41.2	40.4	45.1	46.3	45.4	46.5	+1.1	
Non-MSA	38.3	38.2	44.5	44.5	47.4	45.9	47.5	42.2	43.5	42.2	41.8	39.5	40.2	43.8	40.8	38.2	40.3	40.1	38.5	-1.6	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	39.8	42.1	46.0	45.6	50.5	51.9	48.8	42.8	44.5	43.1	39.6	46.8	44.6	42.6	42.7	44.5	48.3	52.6	50.8	-1.8	
2.5–3.0	41.8	44.8	49.7	50.2	51.5	50.4	50.5	49.4	47.8	47.3	47.8	46.1	45.0	46.3	44.2	45.6	48.6	48.2	49.0	+0.7	
3.5–4.0	41.7	45.0	49.3	50.5	51.2	49.3	50.4	50.1	47.1	49.0	47.5	43.3	41.5	42.9	44.0	45.6	47.3	46.3	47.9	+1.7	
4.5–5.0	40.7	45.5	49.7	48.0	46.2	45.8	47.9	47.1	45.4	43.3	43.4	37.1	39.4	40.1	38.7	42.8	42.2	42.7	41.4	-1.2	
5.5–6.0 (High)	43.2	44.2	51.1	47.8	47.6	47.2	45.1	45.4	41.9	42.8	40.7	40.5	39.0	40.2	38.4	36.9	40.9	38.6	39.0	+0.4	
Race (2-year average): <sup>b</sup>																					
White	41.1	43.9	48.3	50.9	50.3	49.4	49.8	49.9	48.8	48.2	47.5	45.3	43.3	43.4	43.3	43.3	44.8	45.2	44.0	-1.2	
Black	34.7	39.0	41.3	42.7	45.1	45.7	43.5	41.7	40.0	39.1	39.0	38.9	37.7	38.0	40.0	41.0	41.8	42.1	43.8	+1.7	
Hispanic	39.8	43.5	48.6	50.2	51.1	55.0	52.0	47.6	44.2	42.7	42.8	43.1	41.3	40.1	40.7	42.3	45.6	48.7	50.7	+2.0	

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

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

Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S3 for the number of subgroup cases.

See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 10**  
**MARIJUANA: Trends in Annual Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 12 months																						2012– 2013 change	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	6.2	7.2	9.2	13.0	15.8	18.3	17.7	16.9	16.5	15.6	15.4	14.6	12.8	11.8	12.2	11.7	10.3	10.9	11.8	13.7	12.5	11.4	12.7	+1.2
Gender:																								
Male	7.3	7.4	10.5	15.1	17.7	19.6	19.2	18.0	18.1	16.7	18.1	17.0	13.9	12.3	13.0	12.7	11.2	12.2	13.5	15.0	14.0	12.2	12.6	+0.4
Female	5.1	6.9	8.0	10.9	13.7	16.9	16.1	15.3	14.9	14.3	12.8	12.4	11.5	11.2	11.4	10.4	9.3	9.5	10.0	12.4	10.6	10.4	12.5	+2.1 s
College Plans:																								
None or under 4 years	15.8	17.5	22.4	27.7	30.3	34.6	34.5	35.0	34.9	33.6	34.4	33.1	31.3	29.0	30.5	28.8	28.1	27.7	26.7	30.7	27.6	28.4	27.8	-0.6
Complete 4 years	4.6	5.5	7.3	11.0	13.8	15.8	15.5	14.5	14.0	13.4	13.2	12.7	10.7	10.0	10.2	10.0	8.6	9.4	10.5	12.3	11.2	10.1	11.6	+1.5 ss
Region:																								
Northeast	5.0	5.8	6.2	12.1	13.0	15.3	16.2	11.7	14.4	13.2	14.5	11.3	10.0	10.2	9.8	9.3	6.4	8.3	11.9	12.2	7.8	7.9	10.1	+2.2
Midwest	5.9	6.0	8.0	12.0	17.5	18.6	17.0	18.1	18.5	16.6	14.1	14.3	12.3	10.9	12.8	11.0	9.8	12.6	11.1	12.1	10.7	8.5	10.5	+2.0
South	6.1	7.3	9.0	11.4	14.7	17.1	17.2	17.9	16.7	15.2	16.8	16.3	14.4	12.9	13.5	13.8	11.9	11.5	12.5	15.2	13.3	13.2	14.5	+1.3
West	7.8	10.3	14.8	18.1	18.4	22.5	20.6	18.2	15.6	16.9	15.5	15.3	12.9	12.3	11.4	10.6	10.5	10.3	11.2	13.7	16.8	14.1	13.7	-0.5
Population Density:																								
Large MSA	5.2	6.7	8.0	13.1	15.6	18.3	16.4	16.0	15.6	14.5	12.4	12.7	11.5	10.8	11.7	10.3	8.7	9.9	10.1	13.5	11.4	10.7	13.5	+2.7 s
Other MSA	7.2	8.3	10.9	15.7	17.2	19.5	18.2	17.4	15.4	14.8	17.4	15.2	12.9	12.4	12.9	12.5	10.8	11.8	12.8	14.3	14.0	12.3	11.7	-0.6
Non-MSA	5.3	5.7	7.2	8.0	13.7	15.8	18.0	16.9	19.7	18.5	15.3	16.1	14.1	11.9	11.6	12.0	11.4	10.4	11.8	12.3	11.2	10.8	13.6	+2.8
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	13.2	12.7	13.6	18.7	23.0	20.2	24.8	25.0	25.8	26.2	26.0	24.2	22.5	19.7	18.2	19.4	19.4	18.5	17.6	20.7	20.2	19.2	21.9	+2.7
2.5–3.0	7.0	7.7	10.7	14.5	17.9	20.6	20.3	20.0	20.8	19.4	19.5	18.7	16.5	15.4	17.4	15.1	13.8	14.6	15.8	18.4	17.5	16.3	18.3	+2.0
3.5–4.0	6.2	7.0	9.7	13.2	17.2	20.2	19.5	17.7	16.3	15.9	16.7	15.4	13.7	12.8	12.8	13.1	11.3	11.8	13.0	14.7	14.0	13.0	15.1	+2.2
4.5–5.0	3.7	5.4	7.4	10.9	12.7	16.2	15.7	13.7	11.7	10.8	11.1	11.4	8.9	9.0	8.9	8.0	7.2	8.2	8.7	10.6	9.1	8.2	8.6	+0.5
5.5–6.0 (High)	4.6	5.2	6.4	11.0	13.0	14.7	12.1	12.7	12.4	11.5	9.4	9.7	8.0	7.7	7.1	7.1	4.9	6.7	7.4	8.1	6.6	5.8	6.6	+0.8
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	6.4	7.8	10.0	13.5	16.7	17.8	16.7	15.4	14.9	14.7	14.5	13.0	11.5	11.1	10.9	9.9	9.6	10.3	11.5	11.4	10.0	9.1	-0.8
African American	—	4.1	5.7	8.9	11.9	14.0	15.3	16.0	16.3	16.1	14.6	12.7	12.6	12.8	13.6	12.9	11.1	10.6	12.3	14.1	13.6	12.4	13.6	+1.2
Hispanic	—	11.9	13.9	18.1	20.4	20.8	21.8	22.7	22.8	20.1	19.9	21.1	19.1	16.7	14.7	14.3	13.7	13.2	13.6	15.3	16.9	17.2	16.8	-0.4

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.



**TABLE 11**  
**MARIJUANA: Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months																							2012– 2013 change
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	
<i>Approximate weighted N =</i>	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	16.5	15.2	19.2	25.2	28.7	33.6	34.8	31.1	32.1	32.2	32.7	30.3	28.2	27.5	26.6	25.2	24.6	23.9	26.7	27.5	28.8	28.0	29.8	+1.8
Gender:																								
Male	17.7	16.3	21.2	28.2	30.6	36.0	37.3	32.2	34.3	36.1	36.0	32.3	30.0	29.0	28.1	26.3	26.8	25.5	29.6	30.7	31.8	31.0	32.7	+1.7
Female	15.1	13.9	16.9	21.9	26.5	31.4	32.3	30.1	29.7	28.4	29.6	28.4	26.4	25.8	24.9	24.0	22.4	22.2	23.9	24.3	25.8	25.3	27.0	+1.8
College Plans:																								
None or under 4 years	26.9	25.1	31.5	37.3	41.8	48.9	51.5	46.8	48.3	48.8	47.4	46.6	44.6	41.9	41.4	42.0	42.1	43.5	44.5	45.8	47.9	43.6	46.5	+2.9
Complete 4 years	14.2	13.0	16.5	22.4	26.4	31.0	32.0	28.2	29.3	29.7	30.3	27.7	25.5	25.4	24.6	23.0	22.2	21.4	24.7	25.3	26.7	26.5	28.0	+1.6
Region:																								
Northeast	17.1	14.9	22.4	25.6	28.8	34.8	34.6	35.4	34.4	30.3	34.1	31.7	29.5	29.2	28.7	24.9	25.0	26.3	24.1	26.2	29.3	31.4	28.7	-2.7
Midwest	15.8	14.8	17.4	23.4	26.6	33.1	34.4	28.5	31.6	31.1	31.7	29.0	25.0	25.3	26.4	24.8	24.9	22.6	23.6	25.7	26.8	23.7	27.5	+3.8
South	14.5	12.5	16.4	23.8	28.4	33.9	34.4	30.7	30.9	31.4	31.2	28.9	29.6	29.0	27.4	25.5	22.7	24.0	28.7	27.8	28.6	27.9	31.1	+3.2
West	19.4	20.4	24.0	30.0	32.2	32.4	36.5	30.7	32.0	37.1	36.4	33.4	28.8	26.4	23.4	25.3	26.2	23.4	29.4	30.3	30.9	30.2	31.3	+1.1
Population Density:																								
Large MSA	16.5	15.1	19.0	26.3	27.8	31.5	34.1	28.7	31.2	32.4	30.0	29.0	27.1	25.9	25.3	24.0	24.5	24.2	26.6	26.6	27.4	28.6	28.7	+0.1
Other MSA	17.3	15.9	19.8	28.2	31.2	36.2	36.6	33.1	33.6	32.8	35.2	32.4	28.7	27.8	28.0	25.1	24.9	24.7	27.8	29.1	30.6	28.1	31.5	+3.4 s
Non-MSA	14.9	13.9	18.2	18.5	24.8	30.9	32.5	30.2	30.0	31.1	30.9	27.6	29.0	29.0	25.5	27.4	23.9	21.7	24.5	25.7	27.2	27.0	27.3	+0.3
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	20.3	18.9	22.4	25.8	32.0	32.9	34.5	31.7	38.1	37.1	33.6	33.5	33.7	33.2	28.6	31.9	28.4	30.2	36.0	34.8	35.8	37.1	36.9	-0.2
2.5–3.0	17.8	16.0	19.7	26.3	31.8	35.6	36.8	35.3	35.4	34.9	37.1	35.1	32.2	30.6	31.1	29.6	29.4	28.3	29.9	33.0	34.0	33.0	35.7	+2.7
3.5–4.0	16.2	15.1	19.3	25.6	30.0	36.4	37.8	31.6	31.9	35.0	32.6	30.1	29.4	29.5	27.1	26.6	26.3	26.0	27.3	29.3	31.0	29.7	31.8	+2.1
4.5–5.0	14.9	14.1	17.6	23.8	27.0	31.7	33.1	28.3	28.8	28.9	31.4	27.9	24.3	24.3	24.5	21.8	21.2	19.8	24.2	22.2	24.6	25.5	26.3	+0.9
5.5–6.0 (High)	15.9	13.7	18.5	23.3	23.4	30.3	30.5	27.7	30.6	27.3	29.4	25.8	24.3	22.5	23.6	21.2	18.9	18.9	21.8	23.1	23.1	22.9	23.2	+0.3
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	17.0	18.0	22.6	27.7	32.0	35.3	34.2	32.5	32.6	32.9	32.7	30.6	28.2	27.3	26.6	25.7	24.6	25.1	26.5	27.4	27.5	27.3	-0.2
African American	—	7.6	8.7	15.3	20.9	25.7	28.4	26.9	26.3	27.6	28.7	26.5	25.1	27.0	27.2	24.5	22.3	20.6	22.0	25.0	28.1	29.1	30.5	+1.4
Hispanic	—	18.9	21.3	25.1	29.2	34.6	36.8	34.4	34.0	34.8	34.9	31.6	28.8	29.8	28.6	24.9	23.7	26.6	29.9	31.1	31.0	31.8	33.4	+1.7

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

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

	Percentage who used in last 12 months																			→ (Years cont.)
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
<i>Approximate weighted N =</i>	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400
Total	40.0	44.5	47.6	50.2	50.8	48.8	46.1	44.3	42.3	40.0	40.6	38.8	36.3	33.1	29.6	27.0	23.9	21.9	26.0	30.7
Gender:																				
Male	45.8	50.6	53.2	55.9	55.8	53.4	49.2	47.2	45.7	43.2	43.1	41.2	38.6	35.8	32.8	29.4	27.2	24.4	29.0	35.1
Female	34.9	37.8	42.0	44.3	45.7	44.1	42.5	40.8	38.4	36.0	37.8	36.0	33.8	30.3	26.3	24.2	20.1	18.9	22.4	26.4
College Plans:																				
None or under 4 years	—	46.8	50.7	51.6	53.1	51.7	49.7	48.2	46.0	44.2	44.0	42.7	40.6	36.2	34.4	31.1	27.6	27.5	29.1	34.4
Complete 4 years	—	40.7	43.4	47.1	47.3	45.9	42.6	40.6	38.3	35.9	37.5	36.1	34.0	31.3	27.3	24.7	22.0	19.4	24.4	29.1
Region:																				
Northeast	47.4	52.7	53.5	59.2	60.6	55.5	53.2	50.9	49.3	49.6	48.2	44.6	41.2	36.7	31.3	32.2	28.2	23.9	31.2	36.0
Midwest	40.1	44.0	48.1	51.6	52.2	48.9	46.8	45.6	42.0	36.4	40.8	40.2	37.4	34.3	33.0	28.7	26.1	22.7	26.0	30.5
South	32.4	37.9	42.5	42.7	41.2	42.0	38.0	36.7	36.1	35.6	31.0	31.7	30.2	28.7	25.0	21.4	18.1	18.1	23.2	28.7
West	44.1	45.8	46.8	49.1	51.9	51.7	49.6	45.5	44.8	43.2	46.2	41.2	39.6	35.6	32.3	28.3	26.8	26.1	26.4	30.0
Population Density:																				
Large MSA	50.4	51.3	53.2	57.2	58.7	56.3	51.4	50.4	47.0	44.2	44.4	42.6	39.3	34.3	27.8	27.7	24.3	22.6	29.1	32.0
Other MSA	40.3	44.2	48.9	50.8	51.9	49.8	46.4	44.8	44.0	41.0	40.7	39.4	36.9	34.7	30.3	28.3	27.5	22.1	26.2	32.7
Non-MSA	32.9	39.8	41.2	43.3	43.3	41.9	41.6	38.5	36.5	35.3	37.3	34.7	32.2	29.0	30.0	23.5	17.5	21.0	23.1	25.8
Parental Education: <sup>a</sup>																				
1.0–2.0 (Low)	35.2	38.9	41.0	42.5	46.0	43.7	41.8	38.9	39.7	35.7	37.1	33.4	30.7	30.7	23.3	21.0	22.4	21.2	23.0	26.3
2.5–3.0	39.2	46.1	48.2	50.3	50.0	49.0	45.3	44.5	42.2	40.1	40.6	38.8	36.3	31.1	29.6	26.9	22.5	21.1	24.1	29.7
3.5–4.0	38.5	44.9	49.5	51.4	52.7	49.8	47.0	46.5	42.2	41.4	41.0	40.1	36.8	33.4	31.4	27.6	24.0	22.7	26.6	31.5
4.5–5.0	40.6	46.8	49.3	53.2	53.7	50.5	47.6	45.9	43.5	39.6	43.2	39.9	37.5	35.1	29.7	28.5	23.8	20.8	27.2	32.0
5.5–6.0 (High)	38.7	47.5	48.6	55.2	51.2	52.0	48.5	45.7	43.7	39.9	37.9	38.9	38.6	35.9	30.7	29.4	28.2	22.6	28.0	32.3
Race/Ethnicity (2-year average): <sup>b</sup>																				
White	—	—	46.8	50.1	51.8	51.2	49.1	47.1	44.6	42.0	41.6	41.4	39.7	37.6	34.5	31.6	28.2	24.9	25.9	30.2
African American	—	—	37.9	39.6	38.4	37.5	36.1	35.5	37.4	36.4	33.4	30.6	25.7	21.2	17.8	13.7	11.4	11.5	14.2	20.7
Hispanic	—	—	45.8	43.4	42.1	44.1	41.2	38.8	38.3	38.8	37.8	36.7	33.3	29.6	25.0	21.6	23.6	24.7	23.5	25.7

(Table continued on next page.)

**TABLE 12 (cont.)**  
**MARIJUANA: Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			2012– 2013 change	
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	34.7	35.8	38.5	37.5	37.8	36.5	37.0	36.2	34.9	34.3	33.6	31.5	31.7	32.4	32.8	34.8	36.4	36.4	36.4	0.0	
Gender:																					
Male	38.1	39.4	40.9	41.7	41.4	39.2	40.1	39.9	37.8	37.4	37.6	32.7	35.0	35.1	36.7	38.3	40.0	40.8	39.8	-1.0	
Female	30.6	31.6	35.5	33.0	34.1	33.4	33.6	32.4	31.6	30.8	29.6	29.7	28.3	29.5	28.7	30.7	32.1	31.3	32.4	+1.1	
College Plans:																					
None or under 4 years	39.0	41.7	44.6	43.0	43.2	40.3	41.5	40.9	42.1	39.0	41.3	39.9	38.6	41.0	38.0	42.7	41.5	41.5	42.1	+0.5	
Complete 4 years	32.6	33.4	36.4	35.2	35.9	34.6	35.3	34.7	32.3	32.6	31.5	29.1	29.8	30.2	31.1	32.5	34.7	34.8	34.8	-0.1	
Region:																					
Northeast	37.7	40.0	43.5	43.0	39.0	42.3	43.8	41.9	40.5	40.1	39.6	38.1	39.2	36.6	37.8	41.3	40.7	38.1	40.9	+2.8	
Midwest	36.9	36.9	36.5	33.8	38.0	34.5	36.9	37.5	36.5	34.0	33.7	32.0	32.6	31.1	32.5	32.5	34.7	32.0	31.6	-0.4	
South	31.8	32.8	35.0	36.5	36.0	30.7	32.4	32.6	29.4	30.1	31.2	29.4	29.0	31.0	30.6	32.4	33.1	33.9	34.4	+0.5	
West	33.8	35.6	42.6	39.0	39.8	43.1	38.4	35.2	36.2	35.6	32.0	28.8	29.1	32.8	32.1	35.8	40.0	43.0	40.9	-2.2	
Population Density:																					
Large MSA	37.5	37.2	38.3	38.4	38.7	37.1	39.2	37.7	32.3	32.3	34.5	33.4	33.9	34.8	37.2	36.8	38.7	40.4	38.9	-1.5	
Other MSA	34.9	38.6	40.5	38.8	39.1	38.1	36.7	38.0	38.1	37.9	35.0	31.9	31.6	31.2	32.0	36.1	37.4	36.8	37.9	+1.2	
Non-MSA	31.0	29.6	34.9	33.5	34.7	32.9	35.1	30.8	32.2	29.7	29.7	28.1	28.8	32.2	28.7	28.8	30.4	29.2	29.0	-0.2	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	30.9	31.3	34.8	34.2	35.5	36.5	33.9	30.8	31.4	28.7	27.3	32.0	31.1	30.5	28.9	32.8	35.7	42.0	38.4	-3.6	
2.5–3.0	33.8	35.1	37.4	36.1	38.6	35.1	37.0	34.9	34.2	33.1	34.8	33.2	33.8	32.8	33.6	35.4	36.8	37.6	39.0	+1.4	
3.5–4.0	34.2	36.1	38.1	39.0	38.6	36.8	38.4	38.5	36.2	36.9	35.5	31.6	30.6	32.0	34.5	36.8	38.1	37.5	38.3	+0.9	
4.5–5.0	35.0	36.6	40.1	37.4	35.9	35.8	37.4	37.0	35.4	34.4	33.9	28.4	30.4	32.7	31.0	34.5	35.0	35.0	33.3	-1.7	
5.5–6.0 (High)	37.5	36.7	39.7	38.3	39.2	38.0	35.2	36.1	32.6	34.0	32.3	32.9	32.8	32.8	33.6	29.9	34.5	32.2	33.8	+1.6	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	34.2	36.4	38.7	39.9	39.1	38.2	38.5	38.7	37.9	37.3	36.6	34.8	33.4	33.9	34.3	34.8	36.3	36.6	35.6	-1.0	
African American	26.8	30.2	30.4	30.0	30.4	30.0	29.0	27.3	26.3	25.5	26.3	27.7	27.0	26.8	28.6	30.8	32.4	33.2	35.0	+1.8	
Hispanic	29.7	32.3	36.4	37.2	37.8	40.5	37.6	34.6	31.1	29.5	29.6	28.7	27.2	27.3	28.8	31.6	34.4	37.3	39.2	+2.0	

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

Notes. Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 13**  
**MARIJUANA: Trends in 30-Day Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 30 days																					2012– 2013 change		
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	3.2	3.7	5.1	7.8	9.1	11.3	10.2	9.7	9.7	9.1	9.2	8.3	7.5	6.4	6.6	6.5	5.7	5.8	6.5	8.0	7.2	6.5	7.0	+0.5
Gender:																								
Male	3.8	3.8	6.1	9.5	9.8	12.1	11.4	10.3	10.5	10.2	11.0	9.5	8.5	6.3	7.6	6.7	6.2	6.6	7.5	9.2	8.5	7.0	6.7	-0.3
Female	2.6	3.5	4.1	6.0	8.2	10.2	8.9	8.8	8.8	7.8	7.3	7.1	6.4	6.3	5.7	6.0	4.9	4.8	5.3	6.8	5.7	6.0	7.2	+1.3 s
College Plans:																								
None or under 4 years	9.8	11.5	13.2	19.7	20.6	24.5	23.8	24.6	25.9	23.4	23.9	23.2	21.7	19.0	19.7	20.1	18.3	19.1	18.9	21.4	19.4	20.0	19.7	-0.3
Complete 4 years	2.1	2.5	3.9	6.1	7.5	9.1	8.4	7.8	7.7	7.4	7.5	6.8	6.0	4.9	5.2	5.1	4.5	4.5	5.4	6.8	6.2	5.4	6.2	+0.7
Region:																								
Northeast	2.4	3.1	3.3	7.7	7.2	9.2	9.0	6.5	7.6	7.5	8.7	6.3	5.9	5.3	5.6	5.2	3.4	4.2	6.6	7.0	4.3	4.7	5.4	+0.7
North Central	3.3	3.0	3.7	7.3	10.1	11.8	10.4	10.8	11.7	9.5	7.9	8.0	7.3	5.6	6.6	5.6	5.3	6.8	6.2	6.8	5.7	4.4	5.8	+1.4
South	3.3	3.7	5.0	6.6	8.5	10.3	9.7	10.2	10.1	8.9	10.0	9.4	8.7	7.0	7.6	7.9	6.5	6.0	6.8	8.8	7.7	7.5	8.5	+1.0
West	3.9	5.6	9.2	10.9	10.6	13.9	11.9	10.5	8.4	10.4	9.8	8.6	7.0	7.0	5.9	5.9	5.9	5.6	6.0	8.5	10.2	8.2	7.0	-1.2
Population Density:																								
Large MSA	2.8	3.3	4.1	7.6	9.1	11.3	8.7	9.3	8.6	7.5	7.1	6.7	6.5	6.6	6.3	5.3	4.3	4.9	5.5	7.7	6.8	5.8	7.2	+1.4
Other MSA	3.7	4.4	6.5	9.8	9.9	12.0	10.7	9.8	9.4	9.1	10.5	8.8	7.5	6.4	7.4	7.4	6.1	6.3	7.2	8.3	8.3	7.0	6.7	-0.3
Non-MSA	2.8	3.1	3.2	4.3	7.7	9.7	10.8	10.2	11.6	11.0	9.1	9.4	9.0	6.1	5.7	6.3	6.7	5.8	6.1	7.4	5.5	6.5	7.5	+0.9
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	7.4	7.2	7.2	12.4	13.5	12.5	15.5	15.7	17.5	18.8	16.4	13.5	13.7	11.3	10.6	12.0	10.4	11.1	10.3	12.3	12.2	11.4	13.6	+2.3
2.5–3.0	3.9	3.9	5.5	9.0	10.4	13.4	11.6	11.4	12.1	11.9	11.9	11.3	10.0	8.3	9.6	8.9	7.3	8.4	8.6	10.5	10.1	9.9	10.9	+1.0
3.5–4.0	3.1	3.5	5.7	7.8	9.9	12.0	11.0	10.6	9.1	8.8	9.6	8.7	7.6	7.0	7.3	7.0	6.7	5.6	7.1	8.8	7.7	7.2	8.1	+0.9
4.5–5.0	1.7	2.9	3.6	6.0	7.1	9.3	9.0	7.1	6.7	5.3	6.5	6.2	5.0	4.4	4.2	3.7	3.6	3.8	5.1	6.1	5.5	4.1	4.3	+0.1
5.5–6.0 (High)	2.3	2.4	4.2	5.8	7.4	9.2	6.7	7.3	7.5	5.8	5.3	5.4	4.8	3.6	3.3	3.4	2.3	3.6	4.0	4.3	3.4	3.1	3.4	+0.3
Race (2-year average): <sup>b</sup>																								
White	—	3.3	4.1	5.6	7.8	10.0	10.6	9.5	8.7	8.4	8.4	8.3	7.4	6.2	5.8	5.8	5.4	5.0	5.4	6.5	6.5	5.3	4.7	-0.6
Black	—	2.0	2.9	5.0	6.6	8.0	9.0	9.1	9.7	9.3	8.1	7.4	7.3	7.7	8.2	7.5	6.4	6.1	6.7	7.7	8.1	7.6	8.2	+0.7
Hispanic	—	6.4	8.3	12.1	12.9	12.5	13.1	13.5	14.3	12.7	12.6	12.6	10.3	9.3	8.3	8.1	7.6	7.1	7.3	8.8	10.1	10.4	10.0	-0.4

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

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

	Percentage who used in last 30 days																					2012– 2013 change		
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	8.7	8.1	10.9	15.8	17.2	20.4	20.5	18.7	19.4	19.7	19.8	17.8	17.0	15.9	15.2	14.2	14.2	13.8	15.9	16.7	17.6	17.0	18.0	+0.9
Gender:																								
Male	10.1	9.0	13.1	18.6	19.1	22.3	23.0	20.3	21.8	23.3	22.7	19.3	19.0	17.4	16.7	15.7	15.8	15.2	18.7	20.1	20.8	19.8	20.6	+0.8
Female	7.3	7.1	8.6	12.8	15.0	18.6	17.9	17.2	17.0	16.2	16.8	16.4	15.0	14.2	13.4	12.6	12.5	12.3	13.2	13.3	14.5	14.4	15.3	+0.9
College Plans:																								
None or under 4 years	15.0	14.3	20.4	25.8	27.9	35.2	34.7	32.6	33.8	33.7	35.2	31.5	31.3	27.5	27.0	28.1	27.6	28.4	28.0	34.0	34.2	30.3	31.0	+0.7
Complete 4 years	7.4	6.7	8.8	13.6	15.2	17.9	18.1	16.1	17.0	17.6	17.3	15.6	14.7	14.2	13.4	12.4	12.3	11.9	14.5	14.6	15.7	15.7	16.5	+0.8
Region:																								
Northeast	10.1	7.7	13.4	16.9	17.1	21.9	21.6	22.7	22.0	19.4	21.3	19.4	18.3	16.5	17.6	14.6	14.3	16.6	15.3	15.5	19.0	19.1	17.3	-1.8
North Central	8.3	7.6	10.5	15.3	16.8	20.7	19.8	16.6	19.6	19.8	19.1	16.7	14.2	14.8	14.3	13.6	14.7	12.5	13.3	15.4	16.4	14.4	16.9	+2.5
South	7.2	6.6	9.1	14.8	17.2	20.3	20.1	18.7	18.1	18.2	18.0	16.6	18.5	17.1	15.7	14.6	12.8	14.0	17.3	16.7	16.7	17.2	19.0	+1.8
West	10.3	11.7	12.1	17.3	17.6	18.9	21.1	17.2	18.8	22.8	23.0	20.2	17.0	14.7	12.9	14.1	15.3	12.9	17.2	19.0	19.2	18.0	18.2	+0.2
Population Density:																								
Large MSA	9.3	8.0	11.2	17.2	16.9	18.4	19.8	17.4	19.0	20.6	18.5	16.8	15.4	13.8	14.6	14.2	14.2	13.9	16.1	16.0	17.0	17.3	17.2	-0.1
Other MSA	9.1	8.6	11.2	17.5	18.5	22.2	21.7	19.7	20.3	19.7	21.0	19.1	17.3	16.7	15.6	13.6	13.5	14.4	16.4	18.0	18.9	17.2	19.1	+1.9
Non-MSA	7.6	7.2	10.1	11.4	14.7	19.3	19.2	18.4	18.1	18.8	18.7	16.5	18.8	16.9	15.0	15.7	15.5	12.4	14.8	15.1	15.8	16.3	16.3	0.0
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	11.4	11.2	13.3	15.8	20.6	21.4	20.9	20.4	25.0	23.4	20.6	21.6	21.6	19.5	15.8	18.4	17.1	18.1	22.2	21.0	23.6	21.0	22.0	+0.9
2.5–3.0	9.5	8.0	11.3	16.3	19.3	22.9	21.7	22.1	22.0	21.0	22.8	20.4	20.3	17.9	18.1	17.1	17.4	15.7	18.1	20.4	21.2	21.3	21.4	+0.1
3.5–4.0	8.1	8.3	10.9	15.8	18.0	22.1	22.5	18.3	19.3	21.2	20.8	18.1	17.8	17.3	15.9	14.9	15.1	15.4	16.0	17.7	18.9	17.5	19.7	+2.3
4.5–5.0	7.9	7.4	10.0	15.0	15.6	18.1	19.2	16.4	16.6	17.9	17.5	15.2	13.4	13.2	12.7	12.0	11.2	11.2	14.4	13.7	14.8	15.4	15.5	+0.1
5.5–6.0 (High)	8.9	7.5	9.4	15.5	13.3	17.4	17.1	16.2	18.2	16.7	17.2	15.5	13.8	12.7	13.5	11.8	11.3	10.1	13.1	12.9	13.2	14.0	12.8	-1.3
Race (2-year average): <sup>b</sup>																								
White	—	9.0	9.8	13.4	16.8	19.3	21.2	20.3	19.8	20.2	20.2	19.8	18.2	16.5	15.7	15.2	14.7	14.2	14.6	15.7	16.4	16.7	16.5	-0.2
Black	—	3.6	4.9	9.8	13.8	15.9	16.5	15.3	14.6	15.8	16.7	15.2	15.1	16.3	15.3	13.8	12.6	11.7	13.7	15.5	18.0	18.8	19.1	+0.2
Hispanic	—	10.4	12.4	15.6	17.7	19.1	21.3	21.4	20.6	20.5	20.5	18.2	17.0	17.7	16.0	14.0	13.0	15.3	17.4	18.2	18.2	18.5	20.0	+1.5

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

Notes. Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 15**  
**MARIJUANA: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 30 days																			→	
	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	(Years cont.)
<i>Approximate weighted N =</i>	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
Total	27.1	32.2	35.4	37.1	36.5	33.7	31.6	28.5	27.0	25.2	25.7	23.4	21.0	18.0	16.7	14.0	13.8	11.9	15.5	19.0	
Gender:																					
Male	32.3	37.7	40.7	42.6	41.4	37.8	35.3	31.4	31.0	28.2	28.7	26.8	23.1	20.7	19.5	16.1	16.1	13.4	18.2	23.0	
Female	22.5	26.0	30.0	31.3	31.3	29.1	27.3	24.9	22.2	21.1	22.4	20.0	18.6	15.2	13.8	11.5	11.2	10.2	12.5	15.1	
College Plans:																					
None or under 4 years	—	34.5	38.7	39.2	39.6	37.7	36.1	32.9	30.7	29.2	29.0	28.3	25.1	20.4	21.0	17.6	15.8	15.0	17.9	21.6	
Complete 4 years	—	28.4	31.0	33.2	32.2	29.4	27.4	23.9	22.9	20.9	22.7	20.0	18.5	16.4	14.6	11.9	12.5	10.4	14.2	17.7	
Region:																					
Northeast	32.2	38.6	40.4	46.7	44.7	39.3	38.2	33.3	32.0	33.3	32.0	28.5	25.3	20.2	18.6	17.6	17.6	14.4	19.5	22.7	
North Central	27.6	31.4	36.1	37.8	38.0	34.0	33.0	30.0	27.2	22.1	26.1	24.0	21.1	18.6	19.2	13.7	14.9	12.2	15.9	19.3	
South	21.2	27.7	31.3	30.6	29.0	28.4	24.7	22.4	22.9	22.4	18.0	19.2	17.3	15.8	14.0	11.5	9.7	9.4	13.1	17.3	
West	30.8	32.7	33.6	34.3	35.9	35.2	32.0	29.2	27.1	25.9	29.7	23.1	22.3	18.9	16.8	14.7	15.7	14.0	15.6	18.6	
Population Density:																					
Large MSA	36.2	37.9	40.4	44.0	42.2	39.6	36.3	34.3	31.7	28.5	28.5	26.7	23.1	19.4	15.2	14.1	14.3	12.9	18.0	20.7	
Other MSA	26.4	32.5	36.2	37.1	37.5	34.5	31.4	28.3	28.1	25.1	25.9	22.9	21.3	19.3	17.5	14.6	16.3	11.5	15.3	19.8	
Non-MSA	22.2	27.5	30.2	31.4	30.9	28.3	28.0	23.8	21.8	22.5	23.0	21.5	18.2	14.3	16.7	12.6	9.0	12.0	13.8	15.7	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	22.3	29.0	30.4	30.7	33.2	29.9	29.7	24.9	26.2	23.8	23.4	21.0	19.9	15.6	13.9	11.4	11.7	9.7	12.4	14.0	
2.5–3.0	26.5	33.7	36.7	37.7	35.8	34.6	31.5	28.4	27.3	25.4	25.9	24.1	20.9	16.8	16.3	14.3	12.9	11.9	14.0	18.5	
3.5–4.0	25.1	32.3	36.9	37.7	37.8	33.6	31.4	29.3	26.1	25.8	26.5	24.1	21.1	17.7	17.9	13.5	13.8	12.2	16.9	19.3	
4.5–5.0	27.3	32.6	34.3	39.0	37.3	33.7	31.9	30.1	26.9	23.3	27.1	23.1	21.1	19.3	17.1	15.0	13.7	12.1	15.9	20.4	
5.5–6.0 (High)	24.7	32.1	36.0	39.7	37.6	36.2	31.9	27.7	25.5	23.4	20.6	21.7	21.2	20.6	16.2	15.0	17.6	11.6	16.1	20.3	
Race (2-year average): <sup>b</sup>																					
White	—	—	34.0	36.9	37.6	35.8	33.3	30.8	27.9	26.0	25.9	25.5	23.4	21.1	19.2	17.1	15.3	14.1	14.9	18.4	
Black	—	—	29.2	29.7	28.2	27.0	25.7	24.8	25.8	24.8	22.3	19.4	14.5	11.0	9.6	7.5	5.9	6.0	8.1	13.1	
Hispanic	—	—	33.3	30.8	29.0	29.5	27.7	26.2	25.3	23.8	21.9	21.3	20.2	16.1	12.4	11.7	12.9	12.7	12.5	14.9	

(Table continued on next page.)

**TABLE 15 (cont'd)**  
**MARIJUANA: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12**

	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	2012– 2013 change	
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	21.2	21.9	23.7	22.8	23.1	21.6	22.4	21.5	21.2	19.9	19.8	18.3	18.8	19.4	20.6	21.4	22.6	22.9	22.7	-0.2	
Gender:																					
Male	24.6	25.1	26.4	26.5	26.3	24.7	25.6	25.3	24.7	23.0	23.6	19.7	22.3	22.2	24.3	25.2	26.4	26.5	26.4	-0.1	
Female	17.2	18.3	20.3	18.8	19.7	18.3	19.1	17.4	17.3	16.6	15.8	16.4	15.0	16.2	16.8	16.9	18.4	18.8	18.7	-0.1	
College Plans:																					
None or under 4 years	23.7	26.4	29.3	28.3	26.6	26.0	27.5	27.0	26.9	24.1	24.9	24.8	25.9	24.9	24.6	28.1	27.5	27.0	28.0	+1.0	
Complete 4 years	19.6	20.0	21.5	20.5	21.8	19.6	20.4	19.6	18.9	18.3	18.1	16.4	16.8	17.7	19.2	19.3	21.1	21.4	21.3	-0.1	
Region:																					
Northeast	23.8	25.9	27.0	27.2	24.2	26.0	28.4	25.6	26.5	25.1	25.0	24.8	23.7	23.1	24.6	26.1	26.4	24.0	25.8	+1.8	
North Central	22.6	23.3	21.8	21.1	23.2	19.3	22.7	22.4	21.6	18.1	19.2	17.4	18.6	17.5	20.2	20.0	21.7	19.5	20.0	+0.5	
South	19.4	19.5	20.9	21.3	22.1	17.4	18.1	20.0	17.8	17.7	18.2	17.1	17.0	19.2	19.3	19.6	20.9	22.3	21.0	-1.3	
West	19.8	19.7	27.8	23.9	24.2	27.2	23.5	19.3	21.1	20.9	18.0	16.0	17.7	19.2	19.7	21.7	23.4	26.6	25.8	-0.8	
Population Density:																					
Large MSA	23.6	22.9	21.7	23.4	23.2	22.6	23.4	22.9	19.6	19.1	20.4	19.6	20.9	21.8	24.0	22.8	23.3	25.9	25.7	-0.2	
Other MSA	21.5	23.7	25.6	23.9	24.4	22.6	22.5	22.7	23.7	22.3	20.8	18.4	18.2	18.6	20.3	22.7	24.3	23.5	23.5	0.0	
Non-MSA	17.8	17.6	22.0	19.8	21.0	18.6	21.2	17.4	18.7	16.4	16.9	16.3	16.7	18.5	16.8	15.9	17.5	16.7	16.4	-0.3	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	18.1	17.4	19.9	19.7	22.2	21.5	20.9	17.8	20.0	16.6	16.3	17.9	18.2	18.5	16.9	18.6	20.5	26.7	22.6	-4.1	
2.5–3.0	19.6	20.6	23.6	22.1	23.6	20.9	21.7	21.5	20.6	19.3	20.2	19.6	20.1	18.7	22.0	21.2	23.0	23.2	25.2	+1.9	
3.5–4.0	21.5	22.9	23.6	23.9	23.0	21.5	23.6	23.7	22.1	21.2	20.2	18.6	18.5	18.8	21.7	22.8	23.5	23.2	23.5	+0.4	
4.5–5.0	21.3	22.1	24.7	22.6	22.4	21.4	22.3	20.6	21.0	19.8	20.4	16.3	18.3	19.3	19.1	20.8	21.0	22.3	20.8	-1.5	
5.5–6.0 (High)	23.1	22.6	22.9	22.9	23.4	21.3	20.5	19.6	18.3	19.8	18.9	18.2	17.9	21.0	20.3	18.4	23.1	20.3	21.3	+1.0	
Race (2-year average): <sup>b</sup>																					
White	20.8	22.0	23.6	24.4	23.8	22.7	22.9	23.3	22.8	22.1	21.6	20.5	19.5	20.1	20.8	21.4	22.2	22.6	21.8	-0.8	
Black	16.8	18.3	18.5	18.3	19.3	19.0	17.0	16.5	16.3	15.2	14.6	15.9	16.0	16.3	18.6	20.1	21.0	22.3	24.0	+1.7	
Hispanic	17.9	19.1	21.2	21.6	22.0	24.6	22.1	20.0	17.9	16.6	16.6	16.0	15.3	15.3	16.7	18.5	19.6	22.0	24.3	+2.3	

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 16**  
**MARIJUANA: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 8**

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

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

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

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

See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.



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

	Percentage who used daily in last 30 days																							2012– 2013 change
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	0.8	0.8	1.0	2.2	2.8	3.5	3.7	3.6	3.8	3.8	4.5	3.9	3.6	3.2	3.1	2.8	2.8	2.7	2.8	3.3	3.6	3.5	4.0	+0.5
Gender:																								
Male	1.1	1.1	1.6	3.1	3.7	4.7	5.2	4.8	5.2	5.3	6.4	5.1	5.1	4.1	4.1	3.5	3.9	3.8	4.1	5.1	5.4	4.6	6.2	+1.6 ss
Female	0.5	0.4	0.4	1.2	1.7	2.3	2.1	2.4	2.4	2.3	2.6	2.6	2.2	2.2	2.0	2.0	1.8	1.7	1.7	1.6	1.7	2.4	2.0	-0.5
College Plans:																								
None or under 4 years	1.6	2.3	2.7	5.5	6.5	10.2	9.5	9.7	10.3	10.4	11.7	9.4	9.9	9.0	9.5	8.9	8.3	9.2	7.9	9.5	9.5	10.5	10.0	-0.5
Complete 4 years	0.6	0.4	0.6	1.4	2.1	2.3	2.6	2.4	2.7	2.7	3.3	2.9	2.6	2.3	2.1	1.9	2.1	1.9	2.2	2.6	2.9	2.8	3.3	+0.5 s
Region:																								
Northeast	0.8	0.7	1.6	2.5	1.9	3.7	3.9	5.0	3.9	3.9	3.8	3.6	3.7	3.3	3.3	2.8	3.2	2.8	1.9	2.9	4.3	3.2	2.8	-0.4
North Central	0.9	0.6	1.0	2.0	2.9	3.8	3.8	3.4	4.2	4.2	4.1	4.2	2.8	3.0	3.3	2.6	2.9	2.6	2.5	2.9	2.9	3.2	3.9	+0.8
South	0.6	0.6	0.7	2.2	3.2	3.0	3.9	3.4	3.6	3.4	4.5	3.2	4.2	3.4	2.9	3.0	2.7	3.2	3.5	3.3	3.6	4.1	5.0	+0.9
West	1.1	1.3	1.1	2.1	2.7	3.8	2.7	2.9	3.7	3.7	6.2	5.2	3.8	3.0	2.9	2.5	2.7	2.4	3.1	4.3	3.8	3.5	3.7	+0.3
Population Density:																								
Large MSA	0.8	0.5	1.2	2.1	2.5	3.0	3.6	3.4	3.1	4.2	4.4	3.4	3.0	2.5	3.0	2.8	2.3	2.5	2.2	2.8	3.6	2.9	3.4	+0.5
Other MSA	0.9	0.8	0.9	2.3	3.1	3.7	3.8	3.9	4.1	3.4	4.4	4.4	3.6	3.3	3.0	2.6	2.9	3.0	3.0	3.7	3.5	3.6	4.4	+0.8 s
Non-MSA	0.7	0.9	1.1	2.0	2.4	3.7	3.6	3.3	3.9	4.0	4.8	3.7	4.8	3.8	3.4	3.2	3.5	2.6	3.4	3.3	3.6	4.3	3.9	-0.4
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	1.1	1.1	1.4	2.0	4.1	3.6	3.2	3.8	4.6	4.9	6.0	4.6	5.5	5.3	3.7	4.2	4.9	4.2	4.6	4.5	5.8	5.5	5.8	+0.3
2.5–3.0	0.9	0.8	1.0	2.6	3.6	4.6	4.3	4.9	5.5	4.3	5.3	4.9	4.8	3.8	4.8	3.9	3.4	3.7	3.4	4.6	4.3	5.3	5.7	+0.3
3.5–4.0	0.8	0.9	1.1	2.4	2.8	4.1	4.2	3.4	3.5	4.2	4.7	3.9	3.4	3.4	3.3	2.9	3.2	3.2	2.9	3.8	3.7	3.2	4.4	+1.2 s
4.5–5.0	0.8	0.6	0.6	1.8	1.9	2.4	3.0	3.1	2.6	3.4	3.8	2.7	2.9	2.0	2.0	1.8	2.0	1.8	2.1	2.4	2.5	3.0	2.8	-0.2
5.5–6.0 (High)	0.4	0.8	1.0	1.0	2.0	2.1	2.2	2.3	2.5	2.1	3.3	3.2	2.4	1.7	1.8	1.9	1.6	1.3	1.9	1.7	2.9	1.8	2.2	+0.4
Race (2-year average): <sup>b</sup>																								
White	—	0.9	1.0	1.6	2.5	3.2	3.7	3.7	3.8	4.0	4.3	4.4	4.1	3.5	3.1	3.0	3.1	2.8	2.6	2.9	3.3	3.4	3.5	+0.1
Black	—	0.3	0.3	0.8	1.7	2.2	2.8	3.4	3.0	3.2	3.6	3.0	2.9	2.8	2.8	2.8	2.5	2.8	2.9	3.2	3.8	4.0	4.7	+0.7
Hispanic	—	0.8	1.1	1.9	2.5	2.8	3.5	3.6	3.2	3.2	4.2	3.9	3.0	2.9	3.1	2.6	1.9	2.5	2.9	3.2	3.3	3.2	3.7	+0.5

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 18**  
**MARIJUANA: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 12**

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

(Table continued on next page.)

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

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2012– 2013 change
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
Total	4.6	4.9	5.8	5.6	6.0	6.0	5.8	6.0	6.0	5.6	5.0	5.0	5.1	5.4	5.2	6.1	6.6	6.5	6.5	0.0
Gender:																				
Male	6.5	6.8	8.1	7.7	7.9	8.2	7.9	8.7	8.3	7.7	7.2	6.3	6.8	7.6	7.5	8.8	9.7	9.1	8.9	-0.1
Female	2.4	2.7	3.1	3.2	3.9	3.5	3.6	3.1	3.4	3.1	2.8	3.2	3.2	3.0	2.6	3.2	3.3	3.6	3.8	+0.2
College Plans:																				
None or under 4 years	6.8	7.1	8.0	9.8	9.2	9.8	8.8	10.3	9.4	8.1	8.4	9.3	9.6	9.2	8.3	10.5	11.5	9.0	10.7	+1.7
Complete 4 years	3.5	3.9	4.7	4.0	4.7	4.4	4.4	4.6	4.5	4.5	4.0	3.7	3.8	4.2	4.1	4.7	5.4	5.5	5.1	-0.4
Region:																				
Northeast	5.1	6.2	6.9	6.8	5.7	7.3	7.7	7.4	7.8	6.8	5.5	7.9	7.0	6.8	5.3	7.5	7.1	7.1	8.0	+0.9
North Central	4.1	5.2	5.2	5.3	6.2	5.9	6.8	6.2	5.7	5.1	5.4	4.9	5.7	4.8	6.0	5.8	6.8	6.0	5.5	-0.6
South	4.3	3.8	5.3	4.9	5.2	4.6	3.9	5.6	5.4	5.0	5.4	4.2	4.3	5.5	5.0	6.1	6.3	6.1	6.4	+0.3
West	5.3	4.8	6.3	6.5	7.6	7.4	5.9	5.1	5.6	6.1	3.6	3.7	4.0	4.9	4.4	5.4	6.5	7.0	6.5	-0.6
Population Density:																				
Large MSA	5.3	5.5	4.6	5.4	5.4	5.7	5.9	6.0	4.4	5.3	5.3	4.9	4.7	5.6	5.4	6.3	6.2	7.4	6.6	-0.8
Other MSA	4.5	5.0	6.6	5.9	5.8	6.3	5.7	6.1	7.6	6.3	5.0	5.0	5.1	5.3	5.3	6.7	7.5	6.4	7.1	+0.7
Non-MSA	3.9	4.1	5.4	5.4	7.1	5.9	6.0	5.6	5.2	4.7	4.7	5.1	5.5	5.6	4.6	4.3	5.0	5.2	4.7	-0.5
Parental Education: <sup>a</sup>																				
1.0–2.0 (Low)	4.0	3.9	4.9	6.2	8.8	7.7	5.5	4.5	5.0	5.5	4.3	4.6	5.6	4.8	3.5	4.6	5.1	5.2	7.8	+2.6
2.5–3.0	4.9	5.1	5.8	5.7	6.2	6.3	5.8	7.0	6.0	5.5	5.7	6.0	5.8	5.4	5.5	6.1	7.4	7.6	8.7	+1.1
3.5–4.0	4.0	5.0	5.7	5.8	5.5	5.9	5.7	6.7	6.4	6.0	5.0	4.9	5.0	4.9	5.5	6.6	6.9	7.2	6.9	-0.3
4.5–5.0	4.3	4.8	6.1	5.0	5.5	5.3	5.4	4.8	5.5	5.5	5.1	4.3	4.3	5.8	4.7	5.4	5.8	6.1	4.3	-1.8 s
5.5–6.0 (High)	3.9	4.1	4.8	4.1	4.6	4.1	4.4	4.6	3.9	3.7	3.8	3.6	3.8	4.9	4.1	4.7	6.0	4.4	4.8	+0.4
Race (2-year average): <sup>b</sup>																				
White	4.1	4.7	5.5	5.9	5.8	6.0	6.2	6.4	6.5	6.3	5.8	5.4	5.4	5.7	5.8	5.9	6.6	6.9	6.5	-0.4
Black	3.2	3.7	3.9	4.4	4.7	4.6	4.1	3.7	3.7	3.2	3.5	4.4	4.5	3.8	4.3	6.1	6.5	6.0	6.2	+0.2
Hispanic	3.0	4.2	4.5	4.7	6.0	6.9	5.0	4.0	4.0	4.0	3.7	3.2	3.2	3.4	3.6	4.1	4.6	4.8	6.1	+1.3

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

*Notes.* Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence-of-use estimates for the two most recent classes is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 19**  
**SYNTHETIC MARIJUANA: Trends in Annual**  
**Prevalence of Use by Subgroups in Grades 8, 10, and 12**

Percentage who used in last 12 months

	8th Graders				10th Graders				12th Graders				2012– 2013 change	
	1991– 2011	2012	2013	2012– 2013 change	1991– 2011	2012	2013	2012– 2013 change	2009– 2010	2011	2012	2013		
<i>Approximate weighted N =</i>	—	15,100	14,600		—	15,000	12,900		—	14,100	13,700	12,600		
Total	—	4.4	4.0	-0.4	—	8.8	7.4	-1.3	—	11.4	11.3	7.9	-3.4	sss
Gender:														
Male	—	4.1	3.8	-0.3	—	10.0	7.9	-2.1	—	14.7	14.1	8.7	-5.4	sss
Female	—	4.6	4.1	-0.5	—	7.7	6.9	-0.9	—	7.9	7.9	6.8	-1.1	
College Plans:														
None or under 4 years	—	10.2	13.8	+3.6	—	18.7	16.5	-2.3	—	18.9	16.7	11.8	-4.9	s
Complete 4 years	—	3.9	3.3	-0.6	—	7.8	6.5	-1.3	—	10.0	9.9	7.0	-2.9	sss
Region:														
Northeast	—	2.7	3.5	+0.8	—	7.7	6.9	-0.8	—	11.9	10.7	7.4	-3.3	
Midwest	—	2.4	2.8	+0.3	—	9.2	6.3	-2.9	—	13.5	14.2	7.6	-6.6	sss
South	—	5.6	4.2	-1.4	—	10.0	7.0	-3.0	s	—	11.0	9.3	7.9	-1.5
West	—	5.5	5.1	-0.4	—	7.4	9.4	+2.0	—	9.5	11.1	8.4	-2.7	
Population Density:														
Large MSA	—	4.0	3.8	-0.2	—	7.7	6.4	-1.3	—	9.7	13.3	6.8	-6.5	sss
Other MSA	—	4.9	3.9	-1.0	—	8.3	7.6	-0.6	—	12.3	10.3	8.2	-2.1	
Non-MSA	—	3.8	4.2	+0.4	—	11.4	8.4	-3.0	—	11.7	10.8	8.6	-2.2	
Parental Education: <sup>a</sup>														
1.0–2.0 (Low)	—	5.9	8.5	+2.6	—	10.5	8.6	-1.9	—	13.2	10.7	8.8	-1.9	
2.5–3.0	—	6.4	4.0	-2.4	—	13.4	10.5	-2.9	—	12.9	12.3	7.0	-5.3	ss
3.5–4.0	—	5.5	4.8	-0.7	—	9.0	8.4	-0.6	—	12.1	12.8	8.4	-4.4	ss
4.5–5.0	—	2.9	3.0	+0.2	—	7.2	4.9	-2.3	—	9.2	11.0	8.5	-2.4	
5.5–6.0 (High)	—	1.8	2.7	+0.8	—	6.4	4.8	-1.6	—	11.3	8.5	5.1	-3.4	
Race/Ethnicity (2-year data:) <sup>b</sup>														
White	—	—	3.1	—	—	—	8.4	—	—	—	12.9	10.4	-2.5	
African American	—	—	2.8	—	—	—	3.6	—	—	—	6.0	6.5	+0.5	
Hispanic	—	—	7.6	—	—	—	8.8	—	—	—	9.9	9.6	-0.3	

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

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Tables S1, S2, and S3 for the number of subgroup cases. See appendix B for definition of variables in table. For 8th and 10th graders only: Data based on one of four forms; *N* is one third of *N* indicated in S1 and S2. For 12th graders only: Data based on two of six forms; *N* is two sixths of *N* indicated in Table S3.

**Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.**

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

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

	Percentage who used in last 12 months																						2012– 2013		
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	change	
<i>Approximate weighted N =</i>	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600		
Total	9.0	9.5	11.0	11.7	12.8	12.2	11.8	11.1	10.3	9.4	9.1	7.7	8.7	9.6	9.5	9.1	8.3	8.9	8.1	8.1	7.0	6.2	5.2	-1.1 s	
Gender:																									
Male	9.0	9.2	10.4	11.2	11.5	10.3	10.5	10.6	9.5	8.9	8.4	7.6	7.7	8.8	7.8	7.7	7.3	7.0	7.0	6.4	5.5	4.5	4.0	-0.5	
Female	9.0	9.8	11.9	12.2	14.0	14.1	12.9	11.6	11.1	9.9	9.9	7.8	9.6	10.5	11.1	10.5	9.3	11.0	9.3	9.5	8.6	7.9	6.3	-1.6 s	
College Plans:																									
None or under 4 years	15.0	15.6	17.7	18.3	19.6	18.2	18.1	20.9	17.9	17.2	15.1	14.5	16.5	17.9	15.3	17.3	18.1	19.1	16.7	13.1	12.8	11.2	10.9	-0.2	
Complete 4 years	8.1	8.8	10.2	10.9	11.9	11.4	11.2	10.2	9.5	8.6	8.6	7.1	8.0	8.7	9.0	8.3	7.5	8.0	7.5	7.7	6.7	5.9	4.8	-1.1 s	
Region:																									
Northeast	8.0	8.6	11.3	12.0	13.1	11.7	12.1	9.1	9.8	8.7	9.4	6.9	9.0	8.9	9.1	7.2	5.9	7.9	7.4	7.4	6.7	5.6	5.3	-0.4	
Midwest	9.8	10.5	9.9	10.3	13.8	13.3	11.3	11.3	10.6	10.6	8.8	8.0	9.6	9.6	8.5	9.0	8.1	9.1	7.6	7.9	5.8	5.5	4.1	-1.4	
South	8.9	9.1	10.0	11.3	12.1	11.3	11.6	11.3	9.9	8.4	9.5	8.4	7.9	9.9	9.8	9.1	9.1	9.6	8.9	8.3	7.1	6.4	5.1	-1.3	
West	8.8	9.8	14.2	14.0	12.4	12.9	12.6	12.4	10.9	10.5	8.6	6.4	8.9	9.6	10.4	10.5	8.8	8.4	7.9	8.3	8.4	7.2	6.3	-0.9	
Population Density:																									
Large MSA	9.9	9.1	10.8	11.6	11.7	11.4	10.4	8.6	8.8	8.3	8.3	7.1	8.0	8.8	8.8	8.8	8.6	8.7	7.1	7.2	6.7	6.6	5.1	-1.5	
Other MSA	8.5	10.3	12.3	13.1	13.7	13.4	11.5	11.1	10.1	9.4	8.9	8.0	8.5	10.3	10.7	9.0	8.3	8.9	8.8	8.6	7.3	6.5	5.3	-1.2	
Non-MSA	9.1	8.6	8.5	9.3	12.3	11.0	13.9	14.0	12.3	10.9	10.4	7.8	10.1	9.2	8.3	9.7	7.9	9.2	8.1	8.0	7.1	5.0	5.1	+0.1	
Parental Education: <sup>a</sup>																									
1.0–2.0 (Low)	12.0	11.4	11.5	12.4	13.0	11.3	12.1	14.4	12.9	13.1	10.7	10.3	10.6	12.6	11.6	10.5	11.9	13.3	11.8	12.2	10.7	8.9	8.6	-0.3	
2.5–3.0	9.5	9.9	10.9	12.1	13.9	12.6	12.6	12.0	11.8	11.3	9.7	8.3	10.1	10.2	11.6	10.7	9.3	10.8	9.5	9.8	8.1	7.8	6.0	-1.8	
3.5–4.0	8.9	10.0	11.5	12.3	14.7	13.4	13.5	12.8	10.8	9.9	9.4	8.9	10.3	11.0	10.0	10.3	9.2	9.5	9.3	8.2	8.1	6.8	6.2	-0.6	
4.5–5.0	8.0	8.4	10.6	11.0	12.3	13.2	11.4	9.7	9.2	7.1	9.0	7.3	7.4	9.3	8.4	7.8	7.6	7.3	6.9	6.7	5.5	5.0	4.0	-0.9	
5.5–6.0 (High)	8.4	10.3	12.6	12.2	11.6	11.7	10.8	10.6	9.1	9.2	7.7	6.2	6.5	6.9	8.0	7.9	6.3	7.8	6.1	6.6	6.2	5.2	3.8	-1.3	
Race/Ethnicity (2-year average): <sup>b</sup>																									
White	—	10.1	11.3	12.4	13.8	14.6	14.1	13.3	12.1	10.9	10.1	9.1	8.8	9.6	9.8	9.7	8.9	8.5	8.6	8.0	7.1	5.9	4.9	-1.0	
African American	—	4.4	4.6	5.3	5.0	4.2	3.8	4.2	4.2	4.3	4.8	5.0	4.9	5.4	5.8	5.4	5.5	5.6	5.9	5.5	5.1	5.6	5.1	-0.5	
Hispanic	—	10.4	11.5	12.5	13.3	12.7	11.4	11.5	12.7	12.2	11.0	9.9	9.6	10.6	11.0	9.5	9.2	10.2	10.3	10.7	10.5	9.0	7.6	-1.4	

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 21**  
**INHALANTS: Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months																						2012– 2013 change	
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	
<i>Approximate weighted N =</i>	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	7.1	7.5	8.4	9.1	9.6	9.5	8.7	8.0	7.2	7.3	6.6	5.8	5.4	5.9	6.0	6.5	6.6	5.9	6.1	5.7	4.5	4.1	3.5	-0.6
Gender:																								
Male	7.4	7.6	9.1	9.7	10.3	10.1	9.1	8.4	7.6	7.7	6.7	5.4	5.2	5.8	5.0	5.9	6.3	5.4	5.4	5.0	4.1	3.4	3.4	0.0
Female	6.6	7.5	7.7	8.6	8.9	8.9	8.2	7.6	6.9	7.0	6.5	6.0	5.6	6.1	6.9	7.1	7.0	6.3	6.7	6.3	4.8	4.8	3.5	-1.3 s
College Plans:																								
None or under 4 years	12.0	12.4	14.0	15.1	14.6	14.3	14.4	13.5	11.6	11.2	11.0	9.8	9.6	11.2	9.9	10.6	12.0	11.1	11.7	12.1	9.7	8.8	6.0	-2.9 s
Complete 4 years	5.9	6.4	7.3	7.8	8.7	8.7	7.7	7.0	6.5	6.7	5.9	5.2	4.8	5.2	5.5	5.9	5.9	5.3	5.4	5.0	3.9	3.6	3.2	-0.4
Region:																								
Northeast	7.2	7.8	10.6	9.8	10.4	11.5	8.9	9.3	8.3	7.2	6.5	6.0	5.9	6.1	6.2	6.5	6.4	4.9	6.1	4.9	4.8	3.8	2.6	-1.2
Midwest	7.5	8.0	8.3	8.4	10.4	9.8	8.3	6.7	8.4	7.5	6.5	5.8	6.1	5.7	6.1	6.7	6.8	5.7	5.7	5.8	3.9	3.8	3.3	-0.4
South	7.2	6.6	7.3	9.0	9.4	9.1	8.8	8.3	6.5	7.4	6.8	5.4	4.6	5.6	5.6	5.7	6.1	5.6	5.2	5.8	4.3	4.2	3.2	-0.9
West	6.2	8.0	8.4	9.9	8.1	8.0	8.5	7.8	6.1	7.2	6.7	6.2	5.5	6.6	6.1	7.2	7.3	7.2	7.6	6.3	5.1	4.4	4.5	0.0
Population Density:																								
Large MSA	7.7	7.8	8.5	7.9	8.7	8.1	8.1	6.7	6.9	7.1	6.0	5.1	4.8	5.0	6.2	6.0	6.0	5.3	6.1	5.6	4.5	3.9	3.3	-0.6
Other MSA	7.1	7.4	8.4	9.8	9.7	9.6	8.4	7.7	7.0	6.8	6.9	5.4	5.2	6.3	5.6	6.4	6.8	6.4	6.2	5.4	4.2	3.6	3.4	-0.2
Non-MSA	6.5	7.5	8.6	9.1	10.5	11.0	9.8	10.1	8.3	8.5	7.0	7.4	7.1	6.5	6.5	7.4	7.1	5.5	5.9	6.4	4.9	5.2	3.7	-1.5
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	7.0	8.2	10.2	8.7	9.4	10.8	9.3	9.7	8.7	8.5	7.6	5.6	5.8	6.2	6.3	6.9	9.3	8.7	7.1	9.0	6.0	5.4	4.1	-1.3
2.5–3.0	8.0	7.9	9.1	9.5	11.0	9.9	8.5	9.1	8.0	8.1	7.5	6.0	6.3	6.9	6.9	6.2	7.5	6.7	7.4	6.9	5.4	4.7	4.5	-0.3
3.5–4.0	7.5	8.3	8.3	9.6	10.2	10.1	9.4	8.1	6.9	7.4	5.9	6.3	5.8	5.7	6.2	7.1	7.0	6.3	6.5	5.7	4.5	3.9	3.8	-0.1
4.5–5.0	6.4	6.5	7.2	8.7	9.4	8.4	8.3	7.1	6.7	6.5	6.8	5.6	5.1	5.7	5.8	5.5	5.8	5.0	4.9	4.8	3.7	3.9	2.9	-1.0
5.5–6.0 (High)	6.6	6.7	8.2	8.2	7.0	10.1	8.2	6.7	7.2	7.2	5.5	5.2	4.4	5.1	5.3	7.5	5.4	4.5	4.8	4.4	3.8	3.6	2.3	-1.4
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	8.3	8.8	9.6	10.6	11.0	10.4	9.6	8.9	8.4	7.9	7.1	6.6	6.5	6.6	6.8	7.1	6.5	5.9	5.7	4.8	4.1	3.6	-0.6
African American	—	3.6	3.7	3.3	2.8	2.3	2.3	2.4	2.0	2.0	2.1	2.4	2.0	2.1	2.8	2.9	2.9	2.9	3.2	3.1	2.9	2.4	2.6	+0.2
Hispanic	—	6.4	8.3	9.0	8.5	8.2	7.9	7.6	7.3	6.3	5.9	4.8	4.8	5.7	6.2	6.4	6.4	7.2	7.9	7.5	6.8	5.7	4.8	-0.9

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 22**  
**INHALANTS: <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			→ (Years cont.)
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Approximate weighted N =	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400
Total	—	3.0	3.7	4.1	5.4	4.6	4.1	4.5	4.3	5.1	5.7	6.1	6.9	6.5	5.9	6.9	6.6	6.2	7.0	7.7
Adjusted <sup>b</sup>	—	—	—	—	8.9	7.9	6.1	6.6	6.2	7.2	7.5	8.9	8.1	7.1	6.9	7.5	6.9	6.4	7.4	8.2
Gender:																				
Male	—	3.8	5.1	5.6	6.7	5.9	5.1	5.8	5.8	6.5	6.9	7.8	8.3	8.2	7.8	8.8	8.2	8.0	9.2	9.6
Female	—	2.0	2.4	2.8	4.2	3.5	3.2	3.1	2.8	3.8	4.5	4.7	5.6	4.9	4.0	4.9	5.0	4.5	4.8	6.0
College Plans:																				
None or under 4 years	—	3.6	4.7	5.0	6.3	5.0	4.3	4.9	4.7	5.8	5.8	7.7	8.0	8.1	7.1	7.8	7.7	7.7	8.0	9.0
Complete 4 years	—	2.2	2.9	3.4	4.5	4.3	4.0	4.1	3.9	4.7	5.7	5.2	6.4	6.0	5.4	6.4	6.3	5.7	6.7	7.4
Region:																				
Northeast	—	3.2	4.1	4.4	6.4	6.0	5.2	6.2	5.0	6.1	8.0	5.6	6.7	6.0	6.3	7.4	6.7	6.0	8.9	10.3
Midwest	—	2.6	4.2	4.8	5.9	4.6	3.8	3.6	4.5	5.0	5.8	6.7	8.6	7.2	6.7	8.0	8.6	7.4	6.3	9.5
South	—	3.8	3.3	3.6	4.3	3.4	3.2	3.8	3.8	4.6	4.2	5.7	6.1	6.8	5.5	6.4	5.0	4.8	6.5	6.2
West	—	1.7	3.0	3.6	4.9	4.9	4.7	4.4	4.3	5.3	5.4	6.6	6.2	5.6	4.8	5.7	6.8	7.5	7.0	5.7
Population Density:																				
Large MSA	—	2.9	3.4	3.4	5.1	5.7	4.7	5.5	4.8	5.3	5.9	5.2	6.0	6.5	5.1	6.7	5.2	6.0	7.4	7.6
Other MSA	—	2.6	3.6	3.7	4.8	4.2	4.0	3.9	4.4	5.0	5.9	6.3	6.9	6.0	5.8	6.8	7.8	6.6	7.3	7.7
Non-MSA	—	3.4	4.2	5.3	6.2	4.4	3.7	4.4	3.9	5.2	5.4	6.6	7.8	7.5	6.8	7.4	5.8	5.6	6.0	7.6
Parental Education: <sup>c</sup>																				
1.0–2.0 (Low)	—	3.7	3.9	4.5	5.2	3.6	3.6	3.2	3.1	4.5	4.2	4.9	4.6	5.3	5.9	5.0	6.1	4.2	4.3	5.3
2.5–3.0	—	3.1	4.1	4.0	5.0	4.8	4.0	4.8	4.0	5.2	5.6	6.1	6.8	6.3	5.5	6.9	6.6	6.7	6.0	7.8
3.5–4.0	—	3.1	3.4	4.1	5.1	4.7	4.0	4.6	4.9	5.6	5.5	6.2	7.1	5.8	6.1	7.2	6.1	6.3	7.7	7.1
4.5–5.0	—	2.7	3.0	3.9	5.8	4.3	4.4	4.4	5.2	5.0	7.0	6.9	7.2	7.0	5.7	7.4	7.4	6.3	7.6	8.9
5.5–6.0 (High)	—	3.7	4.2	5.0	7.2	5.8	4.9	6.0	4.7	5.6	6.8	6.4	8.7	9.1	6.8	7.6	7.1	6.7	9.4	9.7
Race/Ethnicity (2-year average): <sup>d</sup>																				
White	—	—	3.6	4.3	5.1	5.3	4.7	4.7	4.8	5.1	5.9	6.5	7.3	7.6	7.0	7.2	7.6	7.2	7.6	8.6
African American	—	—	1.5	1.3	2.1	2.2	2.1	1.9	1.8	2.2	2.0	2.1	3.0	3.1	2.2	2.1	2.7	2.5	2.2	2.4
Hispanic	—	—	2.7	3.0	2.9	2.9	3.5	4.1	3.4	4.6	6.5	5.5	4.6	4.1	4.7	4.8	5.4	6.0	5.7	5.5

(Table continued on next page.)

**TABLE 22 (cont.)**  
**INHALANTS: <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			2012– 2013 change
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
Total	8.0	7.6	6.7	6.2	5.6	5.9	4.5	4.5	3.9	4.2	5.0	4.5	3.7	3.8	3.4	3.6	3.2	2.9	2.5	-0.4
Adjusted <sup>b</sup>	8.4	8.5	7.3	7.1	6.0	6.2	4.9	4.9	4.5	4.6	5.4	4.7	4.1	4.0	4.1	—	—	—	—	—
Gender:																				
Male	9.9	9.1	8.3	7.5	6.5	6.8	5.5	5.8	5.2	4.8	6.2	5.1	3.9	4.4	3.6	4.7	3.3	3.1	2.9	-0.2
Female	6.2	6.1	5.2	5.1	4.9	5.1	3.5	3.3	2.9	3.4	4.1	3.9	3.4	3.2	3.2	2.5	3.0	2.6	2.2	-0.4
College Plans:																				
None or under 4 years	9.7	8.2	8.0	7.9	6.5	6.7	6.6	6.3	5.1	5.6	7.3	6.8	4.4	6.1	4.7	4.5	6.2	3.7	3.9	+0.2
Complete 4 years	7.4	7.3	6.5	5.7	5.4	5.5	3.9	4.2	3.5	3.8	4.6	3.9	3.5	3.3	3.1	3.4	2.6	2.6	2.2	-0.5
Region:																				
Northeast	10.3	10.8	9.4	8.0	6.2	6.3	5.7	5.4	5.1	4.3	6.0	5.9	3.9	3.5	3.7	3.4	3.1	3.8	2.6	-1.2
Midwest	8.6	7.6	6.9	7.6	6.3	5.5	5.0	5.6	3.7	3.8	5.6	4.8	3.9	3.0	3.7	3.9	3.2	2.5	2.3	-0.2
South	7.0	6.5	5.6	5.1	5.2	5.5	3.4	4.1	3.5	4.1	4.6	3.6	3.4	3.7	3.1	3.6	2.7	2.2	2.0	-0.2
West	6.7	6.0	5.4	4.7	4.9	6.7	4.8	3.2	3.6	4.6	4.3	4.7	3.7	5.0	3.5	3.8	4.0	3.4	3.3	-0.1
Population Density:																				
Large MSA	8.5	7.8	5.9	5.5	4.8	6.3	4.4	4.4	3.5	4.0	5.0	4.1	2.8	3.1	2.4	4.0	3.3	3.2	2.6	-0.6
Other MSA	7.8	7.9	6.5	6.1	5.3	4.9	4.3	4.4	4.4	4.1	5.1	4.5	3.8	3.7	3.8	3.5	3.0	2.7	2.4	-0.3
Non-MSA	7.8	7.0	8.1	7.4	6.9	7.2	5.2	4.8	3.7	4.3	4.9	5.2	4.7	4.7	3.9	3.4	3.5	2.8	2.6	-0.2
Parental Education: <sup>c</sup>																				
1.0–2.0 (Low)	7.5	5.8	5.4	6.3	4.8	4.0	3.2	5.7	3.4	4.6	5.2	5.0	3.6	3.6	3.6	3.0	4.3	3.0	2.7	-0.3
2.5–3.0	8.0	7.9	6.3	6.0	5.4	5.2	5.7	4.3	3.8	4.9	5.7	4.8	3.8	3.6	4.1	3.5	3.4	3.4	3.0	-0.4
3.5–4.0	6.7	7.8	7.1	7.3	6.1	6.1	4.2	4.5	3.9	5.0	4.8	4.7	3.9	4.4	3.1	3.6	3.8	2.3	2.7	+0.4
4.5–5.0	8.9	7.4	7.9	5.3	5.6	5.9	3.8	4.7	4.4	3.4	5.8	4.3	3.7	3.6	3.9	3.9	2.3	3.1	1.9	-1.2
5.5–6.0 (High)	9.7	8.5	6.0	6.2	6.1	7.5	5.8	4.6	4.0	3.2	3.0	3.9	3.4	3.4	1.9	3.2	2.0	2.8	2.2	-0.7
Race/Ethnicity (2-year average): <sup>d</sup>																				
White	9.1	9.0	8.6	7.9	7.0	6.4	5.9	5.2	4.9	4.7	5.1	5.3	4.7	4.3	4.1	3.8	3.5	3.0	2.6	-0.4
African American	2.6	2.2	1.9	1.7	1.4	1.9	2.2	1.9	1.5	1.3	1.9	1.9	1.6	1.5	1.6	2.0	2.2	1.9	2.0	+0.1
Hispanic	5.8	5.9	4.7	4.5	5.5	6.3	4.5	3.4	2.7	2.9	5.3	5.7	4.3	3.3	3.0	3.6	4.5	4.1	3.7	-0.4

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

Notes. Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on four of five forms in 1976–1988;

$N$  is four fifths of  $N$  indicated in Table S3. Data based on five of six forms in 1989–1998;  $N$  is five sixths of  $N$  indicated in Table S3. Data based on three of six forms beginning in 1999;

$N$  is three sixths of  $N$  indicated in Table S3.

<sup>a</sup>All data are unadjusted for underreporting of amyl and butyl nitrites, except where otherwise noted.

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

<sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.



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

	Percentage who used in last 12 months																							2012– 2013	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001 <sup>a</sup>	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	change	
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600		
Total	1.9	2.5	2.6	2.7	3.6	4.1	3.7	3.4	2.9	2.8‡	3.4	2.6	2.6	2.2	2.4	2.1	1.9	2.1	1.9	2.2	2.2	1.6	1.6	0.0	
Gender:																									
Male	2.2	2.6	2.8	3.0	4.0	4.3	4.0	3.7	3.3	3.2‡	3.8	2.9	2.9	2.3	2.5	2.1	2.1	2.2	2.0	2.5	2.6	1.7	1.7	0.0	
Female	1.6	2.3	2.3	2.4	3.3	3.7	3.2	2.9	2.4	2.5‡	2.9	2.2	2.3	2.1	2.2	2.0	1.8	2.0	1.8	2.0	1.7	1.5	1.6	+0.1	
College Plans:																									
None or under 4 years	5.1	7.2	7.1	6.7	9.6	9.6	10.1	9.2	9.4	7.7‡	9.5	7.8	8.7	7.8	7.6	6.7	6.9	8.4	7.4	6.9	7.7	5.2	5.3	+0.1	
Complete 4 years	1.4	1.8	1.9	2.2	2.9	3.2	2.9	2.7	2.1	2.3‡	2.6	2.0	1.9	1.7	1.8	1.6	1.5	1.6	1.4	1.8	1.8	1.3	1.4	+0.1	
Region:																									
Northeast	1.5	1.6	1.9	2.9	3.4	3.7	2.8	2.4	2.6	2.3‡	2.9	1.5	2.5	2.0	1.9	1.4	1.0	1.4	1.4	1.8	1.1	1.5	1.0	-0.5	
Midwest	1.6	2.4	1.7	2.2	3.8	3.9	3.8	3.5	3.4	3.5‡	2.7	2.7	2.6	1.9	2.2	1.9	2.0	2.0	1.9	2.5	1.8	0.8	1.5	+0.8	
South	1.9	2.7	2.8	2.4	3.3	3.9	3.4	3.7	2.9	2.7‡	4.0	2.9	2.6	2.4	2.9	2.3	1.7	2.3	1.8	1.9	2.0	2.0	1.8	-0.2	
West	2.8	3.2	4.2	3.9	4.2	5.1	4.8	3.5	2.4	2.7‡	3.3	2.9	2.7	2.6	2.3	2.4	2.8	2.5	2.3	3.0	3.9	1.8	1.9	+0.1	
Population Density:																									
Large MSA	2.1	2.2	2.2	3.1	4.0	3.8	3.3	2.9	2.5	2.3‡	2.7	2.0	2.2	1.9	2.2	1.4	1.5	2.1	1.5	1.9	2.0	1.7	1.5	-0.1	
Other MSA	2.0	3.0	3.1	3.1	3.8	4.8	4.0	3.4	3.1	3.0‡	3.6	2.4	2.5	2.6	2.4	2.4	2.0	2.3	2.1	2.6	2.6	1.8	1.7	-0.1	
Non-MSA	1.5	2.0	1.8	1.6	3.0	3.2	3.5	3.8	2.8	3.2‡	3.6	3.5	3.3	2.1	2.7	2.5	2.4	1.7	2.0	2.1	1.7	1.1	1.5	+0.4	
Parental Education: <sup>b</sup>																									
1.0–2.0 (Low)	3.9	3.7	3.5	3.1	5.1	4.8	5.0	5.0	4.8	5.4‡	5.9	4.4	4.3	4.8	3.4	2.9	3.0	4.2	3.9	3.1	3.7	2.5	2.3	-0.1	
2.5–3.0	2.2	2.3	2.7	2.8	3.8	4.7	3.9	3.4	3.5	3.2‡	3.9	3.2	3.2	2.5	3.3	2.6	2.0	2.4	1.8	2.8	3.2	1.9	1.8	-0.1	
3.5–4.0	1.6	2.5	2.8	2.8	4.1	4.1	3.8	3.7	2.8	2.8‡	3.7	2.6	2.6	2.1	3.0	2.3	2.3	2.1	2.0	2.4	2.3	2.0	1.5	-0.4	
4.5–5.0	1.6	2.0	2.3	2.8	3.2	4.0	3.4	3.0	2.1	2.1‡	2.4	2.1	2.0	2.0	1.8	1.9	1.6	1.7	1.6	2.0	1.6	1.0	1.4	+0.4	
5.5–6.0 (High)	1.4	2.4	2.0	2.5	3.2	3.5	3.5	3.1	2.5	3.1‡	2.3	1.7	1.9	1.7	1.1	1.5	1.1	1.9	1.5	1.4	1.4	1.2	1.6	+0.4	
Race/Ethnicity (2-year average): <sup>c</sup>																									
White	—	2.2	2.6	2.8	3.6	4.5	4.5	3.9	3.2	3.1	2.9‡	2.7 <sup>d</sup>	2.8	2.5	2.4	2.5	2.2	2.1	2.1	2.1	2.1	1.6	1.3	-0.3	
African American	—	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.6	0.7	0.7‡	0.7 <sup>d</sup>	0.9	1.2	1.3	1.1	0.7	0.8	0.8	0.7	0.9	1.1	1.2	+0.1	
Hispanic	—	3.8	4.1	4.0	4.0	4.1	4.2	4.6	4.5	4.0	3.4‡	3.6 <sup>d</sup>	2.9	2.9	2.7	1.8	2.1	2.5	2.4	2.7	3.1	2.8	2.1	-0.6	

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

Notes. ' ‡ ' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes:

s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>In 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. The 2001 data are based on the changed forms only; N is one half of N indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>d</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

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

	Percentage who used in last 12 months																							2012– 2013 change
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001 <sup>a</sup>	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	4.0	4.3	4.7	5.8	7.2	7.8	7.6	6.9	6.9	6.1‡	6.2	4.7	4.1	4.1	4.0	4.1	4.4	3.9	4.1	4.2	4.1	3.5	3.4	-0.1
Gender:																								
Male	4.4	4.7	5.7	6.6	8.1	8.5	8.7	7.4	8.1	7.2‡	7.9	5.5	4.9	4.6	4.8	4.5	5.4	4.7	5.0	5.2	4.9	4.6	4.4	-0.3
Female	3.6	3.8	3.6	4.8	6.1	7.0	6.4	6.3	5.7	4.9‡	4.6	3.9	3.4	3.5	3.1	3.5	3.4	3.1	3.1	3.0	3.2	2.5	2.4	-0.1
College Plans:																								
None or under 4 years	7.5	7.5	9.1	10.4	12.5	14.5	13.6	14.2	14.3	12.3‡	15.0	10.3	8.9	9.3	9.4	10.0	10.0	10.4	10.5	11.0	10.3	10.5	6.5	-3.9 ss
Complete 4 years	3.3	3.6	3.7	4.8	6.2	6.6	6.5	5.6	5.7	5.1‡	4.8	3.9	3.3	3.3	3.2	3.3	3.6	3.1	3.4	3.4	3.4	2.9	3.1	+0.2
Region:																								
Northeast	4.0	2.7	4.7	5.8	5.6	7.7	6.2	8.1	8.6	5.8‡	6.0	4.2	4.0	4.7	5.0	4.0	4.4	3.5	3.4	4.0	4.0	3.0	2.7	-0.3
Midwest	3.4	4.3	4.6	5.7	7.8	9.0	7.0	5.6	6.7	6.1‡	6.0	5.1	3.5	3.7	3.9	4.1	4.7	3.8	4.4	3.5	3.5	3.2	2.9	-0.2
South	3.6	3.9	3.6	5.1	7.3	7.5	8.3	7.6	6.5	5.7‡	5.3	4.0	3.9	3.6	3.5	3.5	3.6	4.1	3.8	4.2	4.0	3.4	3.4	-0.1
West	5.2	6.5	6.7	7.1	7.6	6.6	8.5	6.1	6.1	6.9‡	8.7	5.9	5.0	4.7	3.7	5.1	5.1	4.2	4.9	5.1	5.0	4.5	4.4	-0.1
Population Density:																								
Large MSA	4.1	4.6	4.9	6.0	7.1	8.6	7.8	6.3	5.8	7.5‡	5.0	4.7	3.2	2.9	3.4	4.1	3.9	3.9	4.0	3.9	4.0	3.4	2.6	-0.8
Other MSA	4.8	4.4	4.9	6.4	8.0	8.2	7.9	7.6	7.8	5.8‡	6.6	4.9	4.4	5.0	4.3	4.1	4.7	4.2	4.3	4.3	4.4	3.7	3.9	+0.3
Non-MSA	2.5	3.7	4.1	4.4	5.5	6.0	6.7	6.3	6.5	5.1‡	6.8	4.4	4.6	3.9	4.2	3.8	4.2	3.4	3.8	4.1	3.7	3.4	3.2	-0.2
Parental Education: <sup>b</sup>																								
1.0–2.0 (Low)	3.7	4.9	6.0	6.1	7.7	8.0	6.5	8.3	7.0	5.2‡	6.4	5.3	6.5	3.2	3.7	5.3	5.4	5.0	5.8	5.3	5.7	4.9	4.4	-0.5
2.5–3.0	4.3	4.2	4.5	5.5	7.6	8.5	7.3	8.2	8.1	5.8‡	6.7	5.2	4.7	4.8	4.5	4.5	4.6	4.1	3.9	5.6	4.6	4.5	4.0	-0.5
3.5–4.0	3.7	4.6	4.8	5.9	7.6	8.6	8.2	6.6	6.6	6.7‡	6.1	4.8	4.0	3.9	4.0	3.8	4.5	4.2	4.3	4.2	4.1	3.3	3.9	+0.6
4.5–5.0	4.1	3.8	4.5	5.5	6.6	6.9	8.2	6.1	6.6	6.3‡	6.0	4.0	3.5	3.7	4.0	3.9	4.2	3.3	3.6	3.5	3.5	3.2	2.9	-0.3
5.5–6.0 (High)	4.6	4.2	4.6	6.2	6.5	7.2	6.8	6.0	6.5	6.2‡	5.8	5.2	3.4	4.1	3.7	4.0	3.9	3.3	4.5	3.3	3.5	2.8	3.0	+0.2
Race/Ethnicity (2-year average): <sup>c</sup>																								
White	—	4.9	5.1	5.6	7.1	8.6	8.9	8.4	8.2	7.6	6.6‡	5.6 <sup>d</sup>	5.3	4.9	4.7	4.7	4.9	4.8	4.5	4.5	4.4	4.1	3.6	-0.5
African American	—	0.2	0.6	1.1	1.2	0.9	1.0	1.1	1.0	1.0	1.3‡	1.4 <sup>d</sup>	1.0	0.8	1.2	1.4	1.0	1.1	1.4	1.6	1.4	1.4	1.5	+0.1
Hispanic	—	3.6	4.5	5.7	6.3	6.6	7.3	7.3	6.4	5.2	4.4‡	4.5 <sup>d</sup>	3.9	3.8	4.0	3.5	2.8	3.6	4.3	4.3	4.5	4.2	3.5	-0.7

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

Notes. " ‡ " indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes:

s = .05, ss = .01, sss = .001. " — " indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for

the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>In 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. The 2001 data are based on the changed forms only;

*N* is one half of *N* indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by

these changes and have been treated in a parallel manner.

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details

on how race/ethnicity is defined.

<sup>d</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

**TABLE 25**  
**HALLUCINOGENS: <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																				→ (Years cont.)
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	
<i>Approximate weighted N =</i>	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
Total	11.2	9.4	8.8	9.6	9.9	9.3	9.0	8.1	7.3	6.5	6.3	6.0	6.4	5.5	5.6	5.9	5.8	5.9	7.4	7.6	
Adjusted <sup>b</sup>	—	—	—	—	11.8	10.4	10.1	9.0	8.3	7.3	7.6	7.6	6.7	5.8	6.2	6.0	6.1	6.2	7.8	7.8	
Gender:																					
Male	13.7	11.6	10.8	11.6	11.8	11.7	10.9	9.6	8.6	7.9	8.1	7.2	7.5	7.2	7.4	7.7	7.5	7.1	8.9	9.2	
Female	9.0	6.9	6.5	7.3	7.6	6.7	6.8	6.1	5.5	4.7	4.4	4.7	5.2	3.7	3.6	3.8	3.9	4.7	5.6	5.8	
College Plans:																					
None or under 4 years	—	11.2	10.6	11.0	11.3	11.2	10.7	9.5	8.9	8.3	7.7	7.4	7.9	6.4	7.1	6.6	7.0	7.8	8.1	8.4	
Complete 4 years	—	6.9	6.4	7.3	7.5	7.1	7.4	6.2	5.4	4.7	5.0	4.7	5.4	4.7	4.8	5.3	5.3	5.1	6.9	7.0	
Region:																					
Northeast	13.2	10.9	10.6	13.0	12.9	12.2	12.9	11.4	8.7	11.3	9.9	7.9	7.5	5.8	5.6	6.6	7.0	7.1	9.0	9.0	
Midwest	13.0	10.3	9.7	10.7	11.1	11.3	10.3	9.1	8.9	6.0	6.8	6.6	6.9	5.3	6.6	5.7	6.5	5.9	6.8	8.1	
South	8.5	7.4	6.8	6.3	5.7	5.4	4.1	4.6	5.2	3.9	3.2	3.3	4.8	5.2	4.9	5.0	3.7	4.7	5.9	6.7	
West	10.2	9.3	8.2	9.6	11.0	9.2	10.4	7.8	6.3	7.0	6.3	7.2	7.4	6.0	5.5	6.9	7.3	7.3	9.2	7.1	
Population Density:																					
Large MSA	13.9	11.1	9.9	11.9	12.3	11.6	12.0	10.9	9.2	8.8	8.3	7.6	7.9	6.5	5.4	5.7	5.1	6.2	7.3	8.1	
Other MSA	12.1	9.8	9.1	9.3	10.5	9.8	9.0	7.6	7.6	6.3	6.1	5.9	6.3	6.0	5.9	6.6	7.7	6.0	8.1	8.6	
Non-MSA	8.5	7.7	7.5	8.3	7.1	7.1	6.8	6.5	5.3	5.0	5.0	4.9	5.3	3.5	5.0	4.5	3.3	5.5	6.3	5.1	
Parental Education: <sup>c</sup>																					
1.0–2.0 (Low)	8.9	7.4	6.8	7.7	7.1	8.0	6.7	6.5	6.5	5.4	4.8	5.4	5.8	4.9	4.2	3.8	4.9	3.6	4.9	5.0	
2.5–3.0	10.2	10.0	9.1	9.6	9.6	9.5	8.9	8.0	6.8	6.7	6.4	6.0	6.2	4.2	4.9	4.6	4.9	5.6	5.9	7.0	
3.5–4.0	10.9	9.8	9.2	9.7	9.7	9.2	9.2	8.6	7.7	6.3	7.2	6.3	6.0	4.8	5.6	6.5	6.2	6.0	7.5	8.0	
4.5–5.0	11.1	10.1	8.8	10.2	10.9	9.1	9.4	7.8	7.0	5.9	6.2	5.5	6.8	6.7	6.6	6.8	6.1	6.2	8.9	7.7	
5.5–6.0 (High)	8.9	9.4	9.5	10.2	11.7	9.9	10.6	9.0	7.0	7.6	4.3	5.9	7.2	7.2	7.0	8.2	7.3	7.4	8.9	9.0	
Race/Ethnicity (2-year average): <sup>d</sup>																					
White	—	—	9.8	9.9	10.5	10.3	10.0	9.3	8.3	7.5	7.0	6.7	6.8	6.8	6.4	6.7	6.8	6.9	7.9	8.6	
African American	—	—	2.4	2.3	2.0	1.9	1.9	1.8	2.2	1.7	1.2	1.6	1.5	1.0	0.9	0.8	0.6	0.7	0.8	1.2	
Hispanic	—	—	7.9	7.2	7.0	7.1	7.0	7.7	6.6	5.2	5.7	5.7	5.0	4.0	3.2	3.3	4.4	4.6	5.3	5.8	

(Table continued on next page.)

**TABLE 25 (cont.)**  
**HALLUCINOGENS: <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			2012– 2013 change
	1995	1996	1997	1998	1999	2000	2001 <sup>e</sup>	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
Total	9.3	10.1	9.8	9.0	9.4	8.1‡	9.1	6.6	5.9	6.2	5.5	4.9	5.4	5.9	4.7	5.5	5.2	4.8	4.5	-0.3
Adjusted <sup>b</sup>	9.7	10.7	10.0	9.2	9.8	8.7‡	9.7	7.2	6.5	6.4	5.9	5.3	5.8	6.1	5.2	6.0	5.8	5.0	4.9	-0.2
Gender:																				
Male	11.9	12.4	12.0	11.0	11.4	9.6‡	11.1	8.4	7.8	8.4	7.4	6.2	7.5	7.8	6.2	7.9	7.0	6.0	5.9	-0.1
Female	6.3	7.3	7.4	6.8	7.4	6.3‡	6.8	4.7	3.8	3.8	3.4	3.6	3.3	3.9	3.1	2.9	3.3	3.1	2.8	-0.3
College Plans:																				
None or under 4 years	11.9	12.1	11.3	12.0	10.5	10.3‡	10.4	9.8	8.2	7.7	7.8	7.0	8.3	8.4	5.6	8.4	7.7	5.8	6.0	+0.2
Complete 4 years	8.2	9.0	9.0	7.8	8.7	7.0‡	8.0	5.5	5.0	5.4	4.7	4.4	4.6	5.2	4.3	4.8	4.6	4.5	4.0	-0.5
Region:																				
Northeast	10.1	13.3	13.9	10.7	9.8	9.3‡	9.8	9.1	7.8	7.0	5.5	7.1	6.7	8.0	4.7	6.2	5.7	5.2	4.5	-0.7
Midwest	9.2	8.8	7.6	8.4	9.8	7.0‡	11.4	6.4	5.4	5.3	6.7	4.9	5.3	4.5	5.9	5.4	5.2	4.5	4.9	+0.4
South	8.8	8.9	9.2	8.5	8.6	6.9‡	5.8	5.6	4.9	5.7	5.2	4.1	4.2	5.7	3.9	4.5	3.9	4.2	3.9	-0.2
West	9.6	10.5	9.5	9.1	10.0	10.5‡	10.8	6.2	6.3	7.4	4.4	4.3	6.5	6.2	4.6	6.6	6.7	5.5	4.8	-0.7
Population Density:																				
Large MSA	11.0	10.5	8.8	8.7	8.4	8.9‡	11.5	6.8	4.4	5.6	5.5	6.0	6.2	6.9	5.1	5.6	4.9	5.4	4.5	-0.9
Other MSA	9.5	11.4	11.2	9.9	10.4	8.3‡	8.7	7.2	7.2	7.2	5.9	4.5	5.1	5.7	4.7	5.9	5.6	5.0	5.0	0.0
Non-MSA	7.0	7.4	8.3	7.4	8.8	7.0‡	7.3	5.2	5.5	4.8	4.5	4.1	4.8	5.3	4.2	4.3	4.4	3.2	3.1	-0.1
Parental Education: <sup>c</sup>																				
1.0–2.0 (Low)	7.2	7.4	7.3	7.9	9.0	7.0‡	6.3	5.1	5.3	4.9	3.0	4.9	3.9	4.4	3.6	3.7	4.9	3.3	4.4	+1.2
2.5–3.0	8.7	8.8	8.5	8.8	8.6	7.4‡	9.1	6.6	4.9	5.6	5.7	5.1	4.9	5.0	4.5	5.0	4.3	5.1	4.7	-0.4
3.5–4.0	9.5	10.3	9.9	9.5	10.6	8.2‡	9.4	7.1	6.4	6.6	5.4	5.1	5.5	5.5	4.6	6.2	5.4	4.8	4.6	-0.1
4.5–5.0	9.6	10.5	10.4	8.6	9.3	7.7‡	8.6	6.7	6.5	6.4	5.7	4.6	5.4	6.7	5.3	5.5	4.9	5.0	3.9	-1.1
5.5–6.0 (High)	9.5	11.4	11.6	9.4	8.4	9.6‡	8.8	5.9	5.3	6.1	5.7	4.6	6.7	7.2	4.6	5.4	5.7	4.5	4.7	+0.2
Race/Ethnicity (2-year average): <sup>d</sup>																				
White	9.5	10.8	11.6	11.3	10.7	9.9	9.0‡	8.4 <sup>f</sup>	7.2	7.0	6.7	6.0	6.2	6.9	6.3	6.1	6.4	6.0	5.2	-0.7
African American	1.2	1.7	1.9	1.4	1.2	1.6	1.4‡	1.2 <sup>f</sup>	1.3	1.2	1.3	1.5	1.4	1.4	1.2	1.3	1.7	1.6	1.5	-0.1
Hispanic	7.1	8.3	7.3	6.8	7.9	9.6	7.8‡	6.0 <sup>f</sup>	4.6	4.1	3.9	3.8	3.9	3.5	3.3	3.3	3.0	2.9	3.5	+0.6

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

*Notes.* ' ‡ ' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>All data are unadjusted for the underreporting of PCP, unless otherwise indicated.

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

<sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>e</sup>In 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. The 2001 data are based on the changed forms only; *N* is one half of *N* indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

<sup>f</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

**TABLE 26**  
**LSD: Trends in Annual Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 12 months																							2012– 2013
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>change</u>
<i>Approximate weighted N =</i>	<i>17,500</i>	<i>18,600</i>	<i>18,300</i>	<i>17,300</i>	<i>17,500</i>	<i>17,800</i>	<i>18,600</i>	<i>18,100</i>	<i>16,700</i>	<i>16,700</i>	<i>16,200</i>	<i>15,100</i>	<i>16,500</i>	<i>17,000</i>	<i>16,800</i>	<i>16,500</i>	<i>16,100</i>	<i>15,700</i>	<i>15,000</i>	<i>15,300</i>	<i>16,000</i>	<i>15,100</i>	<i>14,600</i>	
Total	1.7	2.1	2.3	2.4	3.2	3.5	3.2	2.8	2.4	2.4	2.2	1.5	1.3	1.1	1.2	0.9	1.1	1.3	1.1	1.2	1.1	0.8	1.0	+0.2
Gender:																								
Male	2.0	2.1	2.5	2.6	3.4	3.7	3.5	3.2	2.7	2.6	2.3	1.7	1.4	1.1	1.2	0.8	1.1	1.4	1.1	1.2	1.4	0.8	1.0	+0.2
Female	1.3	2.0	2.1	2.1	2.9	3.2	2.8	2.4	2.0	2.2	2.1	1.3	1.1	1.1	1.1	1.0	1.0	1.2	1.1	1.1	0.8	0.8	1.0	+0.3
College Plans:																								
None or under 4 years	4.5	6.4	6.4	6.2	8.5	8.2	9.3	7.8	8.2	6.7	5.8	5.7	4.3	4.7	4.1	3.4	3.9	5.2	4.9	3.7	3.9	3.3	3.8	+0.5
Complete 4 years	1.2	1.5	1.6	1.8	2.5	2.7	2.5	2.2	1.7	2.0	1.8	1.1	0.9	0.7	0.8	0.7	0.8	1.0	0.8	0.9	0.9	0.6	0.8	+0.2
Region:																								
Northeast	1.3	1.4	1.8	2.6	2.9	2.9	2.3	2.1	2.2	1.9	1.9	0.9	1.4	1.0	0.9	0.5	0.6	0.8	0.8	1.0	0.6	0.7	0.6	-0.1
Midwest	1.4	1.8	1.4	1.7	3.5	3.4	3.3	2.5	2.7	3.0	1.7	1.8	1.2	0.9	0.9	0.7	1.2	1.3	1.1	1.4	0.9	0.3	0.9	+0.5
South	1.8	2.4	2.4	2.1	2.8	3.4	3.0	3.2	2.5	2.4	2.7	1.8	1.3	1.2	1.5	1.1	1.0	1.4	1.0	1.0	1.0	1.1	1.2	+0.2
West	2.2	2.9	3.7	3.3	3.8	4.3	4.3	3.2	1.9	2.3	2.0	1.2	1.2	1.2	1.1	1.0	1.4	1.4	1.6	1.4	2.1	0.9	1.1	+0.2
Population Density:																								
Large MSA	1.9	2.0	2.0	2.7	3.6	3.2	2.9	2.6	2.2	2.0	1.8	1.3	1.3	1.1	1.0	0.6	0.7	1.4	1.0	1.0	1.0	0.9	1.0	0.0
Other MSA	1.7	2.5	2.8	2.8	3.3	4.1	3.6	2.9	2.7	2.6	2.3	1.5	1.2	1.3	1.1	1.1	1.2	1.3	1.2	1.4	1.3	0.8	1.1	+0.3
Non-MSA	1.3	1.6	1.4	1.3	2.4	2.6	2.8	2.9	1.9	2.8	2.4	1.9	1.4	0.7	1.4	1.0	1.3	1.0	1.1	1.0	0.9	0.6	0.8	+0.2
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	3.5	3.1	3.1	2.8	4.6	4.4	4.7	4.4	3.7	4.9	4.1	3.4	2.3	2.8	1.7	1.8	1.8	2.4	2.6	1.6	1.7	1.6	1.3	-0.3
2.5–3.0	1.8	2.1	2.3	2.6	3.1	4.0	3.2	2.8	2.7	2.9	2.6	2.0	1.4	1.2	1.7	1.0	1.1	1.6	1.1	1.1	1.7	1.1	1.0	-0.1
3.5–4.0	1.4	2.0	2.4	2.4	3.6	3.5	3.4	3.1	2.4	2.2	2.4	1.3	1.3	1.0	1.5	1.0	1.0	1.1	1.0	1.4	1.2	0.7	0.8	+0.1
4.5–5.0	1.4	1.5	2.1	2.1	2.6	3.4	2.9	2.5	1.9	1.8	1.5	1.2	1.1	1.0	0.6	0.7	1.0	1.0	0.8	1.0	0.8	0.4	1.0	+0.6 s
5.5–6.0 (High)	1.3	2.0	2.0	2.1	2.9	3.0	2.9	2.4	1.9	2.3	1.3	0.8	0.8	0.6	0.4	0.7	0.6	1.3	0.9	0.8	0.8	0.7	1.1	+0.4
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	1.9	2.3	2.5	3.1	3.9	3.9	3.2	2.6	2.6	2.6	2.0	1.5	1.1	1.0	1.0	1.0	1.1	1.1	1.1	1.0	0.7	0.7	-0.1
African American	—	0.5	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.6	0.8	0.9	0.6	0.3	0.6	0.7	0.5	0.6	0.6	0.8	+0.1
Hispanic	—	3.3	3.7	3.6	3.3	3.5	3.9	4.2	3.9	3.5	3.2	2.4	1.7	1.8	1.7	1.0	1.3	1.6	1.5	1.6	1.8	1.4	1.2	-0.3

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 27**  
**LSD: Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months																						2012– 2013 change	
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	
<i>Approximate weighted N =</i>	<i>14,800</i>	<i>14,800</i>	<i>15,300</i>	<i>15,800</i>	<i>17,000</i>	<i>15,600</i>	<i>15,500</i>	<i>15,000</i>	<i>13,600</i>	<i>14,300</i>	<i>14,000</i>	<i>14,300</i>	<i>15,800</i>	<i>16,400</i>	<i>16,200</i>	<i>16,200</i>	<i>16,100</i>	<i>15,100</i>	<i>15,900</i>	<i>15,200</i>	<i>14,900</i>	<i>15,000</i>	<i>12,900</i>	
Total	3.7	4.0	4.2	5.2	6.5	6.9	6.7	5.9	6.0	5.1	4.1	2.6	1.7	1.6	1.5	1.7	1.9	1.8	1.9	1.9	1.8	1.7	1.7	-0.1
Gender:																								
Male	3.9	4.3	5.1	5.9	7.4	7.6	7.6	6.3	7.0	5.9	5.1	3.1	1.9	1.8	1.9	2.1	2.3	2.2	2.3	2.4	2.2	2.3	2.3	0.0
Female	3.4	3.6	3.2	4.3	5.5	6.2	5.8	5.4	5.1	4.3	3.1	2.0	1.6	1.4	1.0	1.3	1.5	1.3	1.3	1.3	1.3	1.1	1.0	-0.1
College Plans:																								
None or under 4 years	6.8	7.0	8.4	9.4	11.1	13.1	12.8	12.4	13.1	11.1	9.9	6.0	4.4	4.5	4.1	5.1	4.3	5.1	5.9	5.1	4.2	6.3	3.5	-2.8 s
Complete 4 years	3.0	3.4	3.3	4.2	5.6	5.8	5.7	4.7	4.9	4.1	3.2	2.0	1.3	1.2	1.1	1.2	1.5	1.3	1.4	1.5	1.6	1.3	1.5	+0.2
Region:																								
Northeast	3.6	2.6	3.8	5.1	4.7	6.4	5.2	7.1	7.5	4.1	4.0	2.2	1.8	1.7	2.3	1.7	1.8	1.5	1.6	2.0	1.8	1.4	1.7	+0.3
Midwest	3.2	4.1	4.4	5.2	7.3	8.3	6.0	4.5	6.0	5.4	4.3	2.8	1.7	1.5	1.2	1.6	2.2	2.0	2.3	1.4	1.7	1.6	1.5	-0.1
South	3.3	3.7	3.2	4.6	6.8	6.8	7.9	6.5	5.8	5.0	3.5	2.3	1.7	1.4	1.4	1.7	1.6	1.8	1.6	2.1	2.1	1.7	1.5	-0.2
West	4.8	5.9	6.1	6.3	6.5	5.7	7.4	5.2	5.1	5.9	5.3	3.2	1.7	1.9	1.0	1.8	1.9	1.7	2.0	2.0	1.8	2.1	1.9	-0.2
Population Density:																								
Large MSA	3.8	4.4	4.4	5.4	6.6	7.6	7.0	5.4	4.9	6.4	3.8	2.6	1.3	1.1	1.2	1.6	1.6	1.5	1.7	1.7	1.8	1.8	1.3	-0.5
Other MSA	4.4	4.1	4.4	5.9	7.1	7.4	7.0	6.6	6.7	4.8	4.1	2.7	1.7	1.9	1.5	1.7	2.1	1.9	2.2	1.9	1.8	1.7	2.2	+0.5
Non-MSA	2.3	3.5	3.7	3.7	5.0	5.2	6.0	5.0	5.9	4.4	4.6	2.3	2.3	1.5	1.8	1.8	1.7	1.7	1.4	2.1	1.9	1.8	0.9	-0.8
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	3.1	4.4	5.5	5.5	6.9	7.6	5.9	7.9	6.3	4.9	3.9	2.7	3.7	1.3	1.8	2.5	2.9	2.2	2.5	2.4	3.0	2.0	2.2	+0.2
2.5–3.0	4.0	4.2	4.2	5.1	6.9	7.6	6.6	7.0	7.3	5.1	4.8	2.9	2.0	1.7	1.7	2.1	2.0	1.6	1.9	2.5	1.8	2.6	1.8	-0.8
3.5–4.0	3.4	4.1	4.2	5.3	6.9	7.9	7.4	5.6	5.8	5.6	4.3	2.8	1.7	1.4	1.6	1.6	1.8	1.9	2.0	1.8	1.8	1.4	1.7	+0.3
4.5–5.0	3.8	3.6	3.9	4.8	6.0	6.0	7.0	5.0	5.7	5.0	3.8	2.0	1.2	1.4	1.2	1.3	1.7	1.5	1.5	1.6	1.7	1.6	1.5	-0.1
5.5–6.0 (High)	4.2	3.9	3.9	5.4	5.9	5.8	6.0	4.6	5.3	5.0	3.5	2.4	1.2	1.6	1.4	1.3	1.7	1.9	2.2	1.9	1.6	1.3	1.7	+0.4
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	4.6	4.6	5.0	6.4	7.7	7.9	7.3	7.0	6.5	5.2	3.8	2.4	1.9	1.7	1.8	2.0	2.0	1.9	2.0	2.0	1.9	1.9	0.0
African American	—	0.2	0.5	0.9	1.0	0.8	0.9	1.0	0.9	0.9	0.9	0.6	0.4	0.4	0.6	0.7	0.6	0.7	0.9	1.1	1.0	0.8	0.8	0.0
Hispanic	—	3.2	4.1	5.0	5.7	6.1	6.7	6.6	5.6	4.6	3.7	2.9	2.4	1.7	1.6	1.6	1.4	1.8	2.0	1.7	1.9	1.9	1.5	-0.5

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 28**  
**LSD: Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																				→ (Years cont.)
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	
<i>Approximate weighted N =</i>	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
Total	7.2	6.4	5.5	6.3	6.6	6.5	6.5	6.1	5.4	4.7	4.4	4.5	5.2	4.8	4.9	5.4	5.2	5.6	6.8	6.9	
Gender:																					
Male	9.6	7.9	7.1	7.8	8.0	8.1	8.0	7.4	6.7	5.8	5.9	5.5	6.4	6.5	6.5	7.1	6.8	6.7	8.4	8.4	
Female	5.6	4.6	3.9	4.5	4.8	4.8	4.7	4.3	3.8	3.1	2.8	3.4	3.9	3.0	3.2	3.6	3.4	4.4	5.1	5.3	
College Plans:																					
None or under 4 years	—	7.5	6.7	7.2	8.0	8.2	8.0	7.5	6.9	6.1	5.6	5.9	6.6	5.7	6.5	6.2	6.4	7.6	7.5	7.7	
Complete 4 years	—	4.7	4.0	4.6	4.5	4.7	5.0	4.3	3.8	3.1	3.4	3.3	4.3	4.1	4.2	4.8	4.7	4.8	6.4	6.3	
Region:																					
Northeast	8.5	8.0	7.2	8.0	7.9	6.8	9.0	8.0	5.6	7.0	5.4	5.1	5.3	4.7	5.1	5.9	6.1	6.6	8.6	8.2	
Midwest	8.7	7.0	6.5	7.9	7.9	8.5	7.8	7.3	7.0	4.4	5.3	5.3	5.7	4.7	6.0	5.3	5.9	5.5	6.3	7.3	
South	5.4	4.7	3.7	3.7	3.4	4.3	3.4	3.9	4.4	3.5	2.8	2.6	4.2	4.7	4.2	4.7	3.4	4.4	5.5	6.3	
West	7.6	5.9	5.0	5.8	8.3	6.5	6.3	4.8	4.2	4.5	4.6	5.9	6.2	5.2	4.4	6.4	6.5	7.0	8.5	6.2	
Population Density:																					
Large MSA	9.4	7.9	6.4	7.2	7.6	7.3	8.0	7.3	5.7	4.7	4.1	4.4	5.6	5.2	4.6	5.2	4.3	5.7	6.7	7.3	
Other MSA	7.4	6.8	5.6	6.1	7.3	6.8	6.9	6.3	6.0	4.9	4.8	4.9	5.4	5.6	5.3	6.1	7.0	5.8	7.6	7.9	
Non-MSA	5.7	4.8	4.8	5.8	4.9	5.6	4.9	4.8	4.4	4.2	4.1	4.0	4.4	3.1	4.3	4.2	3.0	5.1	5.6	4.6	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	6.1	4.8	4.5	5.0	4.5	5.2	4.8	5.0	4.9	4.1	3.0	3.9	4.4	4.1	3.6	3.4	4.3	3.3	4.6	4.4	
2.5–3.0	6.5	6.8	5.8	6.1	6.3	6.8	6.5	6.1	5.1	4.8	4.5	4.6	4.9	3.8	4.3	4.4	4.4	5.2	5.6	6.5	
3.5–4.0	6.4	6.7	5.6	6.1	6.7	6.7	6.7	6.4	5.7	4.3	4.7	4.6	4.9	4.2	5.1	6.0	5.5	5.7	7.0	7.4	
4.5–5.0	7.0	6.4	5.3	6.7	7.5	5.7	6.4	5.7	5.2	4.3	4.8	4.1	5.8	6.2	5.9	6.2	5.3	5.8	8.3	6.9	
5.5–6.0 (High)	6.5	6.4	6.1	7.0	7.4	7.2	7.7	6.0	4.8	5.0	3.8	4.7	6.1	6.2	5.5	7.4	7.1	7.0	8.2	7.9	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	—	—	6.3	6.3	6.8	7.0	7.2	6.9	6.2	5.5	5.0	4.9	5.4	5.8	5.7	6.1	6.3	6.4	7.4	8.0	
African American	—	—	1.3	1.3	1.2	1.1	1.0	0.9	0.9	0.7	0.7	1.0	0.8	0.6	0.7	0.6	0.6	0.6	0.6	0.9	
Hispanic	—	—	6.1	5.0	4.9	5.2	4.5	5.2	5.0	4.1	3.9	3.9	4.0	3.1	2.3	2.7	3.6	4.1	5.1	5.4	

(Table continued on next page.)

**TABLE 28 (cont.)**  
**LSD: Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			2012– 2013 change
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
Total	8.4	8.8	8.4	7.6	8.1	6.6	6.6	3.5	1.9	2.2	1.8	1.7	2.1	2.7	1.9	2.6	2.7	2.4	2.2	-0.2
Gender:																				
Male	10.7	10.9	10.3	9.3	10.0	7.6	7.9	4.4	2.5	3.1	2.7	2.1	3.0	3.7	2.4	3.6	3.6	2.9	2.9	0.0
Female	5.8	6.5	6.2	5.7	6.1	5.3	5.0	2.3	1.2	1.2	0.9	1.1	1.2	1.6	1.3	1.4	1.7	1.6	1.3	-0.2
College Plans:																				
None or under 4 years	11.2	11.4	10.3	10.9	9.4	8.7	8.2	5.7	3.0	3.2	3.4	2.6	4.1	4.8	2.5	4.2	3.7	3.1	3.4	+0.4
Complete 4 years	7.3	7.7	7.4	6.3	7.3	5.6	5.7	2.7	1.4	1.8	1.3	1.4	1.6	2.1	1.6	2.1	2.4	2.2	1.7	-0.5
Region:																				
Northeast	8.8	11.9	11.8	8.2	7.8	7.1	6.7	5.4	2.4	2.3	1.7	3.0	2.1	3.0	2.6	3.7	3.0	2.9	2.7	-0.3
Midwest	8.3	7.7	7.0	7.6	9.1	5.9	8.6	3.7	1.8	1.8	2.1	1.6	2.7	2.5	2.4	2.8	3.0	1.9	2.3	+0.4
South	8.1	7.9	8.1	7.4	7.7	6.0	4.7	3.1	1.9	2.6	1.8	1.4	1.7	3.0	1.2	2.0	2.1	2.1	1.8	-0.3
West	8.5	8.8	6.9	7.1	7.7	7.9	6.6	2.1	1.4	2.3	1.6	1.1	2.0	2.2	1.5	2.3	2.9	2.8	2.2	-0.6
Population Density:																				
Large MSA	9.7	9.0	7.7	7.2	6.8	6.7	7.7	3.3	1.5	1.9	1.8	2.2	2.4	2.7	2.4	2.4	2.4	2.5	2.2	-0.3
Other MSA	8.7	10.0	9.3	8.4	9.2	6.9	6.4	4.0	2.2	2.6	1.9	1.5	2.0	2.8	1.7	2.9	3.0	2.7	2.4	-0.2
Non-MSA	6.5	6.5	7.3	6.1	7.4	5.9	5.6	2.7	1.7	1.9	1.7	1.2	1.8	2.6	1.4	2.0	2.3	1.4	1.5	+0.1
Parental Education: <sup>a</sup>																				
1.0–2.0 (Low)	6.6	6.7	6.8	6.8	8.6	5.6	5.4	2.4	1.5	3.2	1.7	1.5	2.3	2.3	1.8	1.9	2.4	1.7	2.0	+0.3
2.5–3.0	8.1	8.2	7.3	7.8	7.6	6.4	6.7	3.4	1.9	2.4	1.9	2.0	1.9	2.4	1.6	2.3	2.3	2.6	2.8	+0.1
3.5–4.0	8.6	9.3	8.5	8.2	9.0	6.7	6.3	4.0	1.7	1.8	1.5	1.9	2.1	2.4	1.6	2.7	2.8	2.4	1.9	-0.4
4.5–5.0	8.6	8.7	8.6	6.5	8.0	6.0	6.7	3.1	1.7	2.0	1.7	1.3	2.0	2.8	1.9	2.3	2.7	2.4	1.9	-0.5
5.5–6.0 (High)	8.3	9.2	9.5	7.3	6.4	7.0	5.6	2.8	1.7	2.2	1.7	1.1	2.3	3.2	2.1	3.2	2.4	2.2	2.1	0.0
Race/Ethnicity (2-year average): <sup>b</sup>																				
White	8.6	9.7	10.1	9.5	9.1	8.3	7.5	5.8	3.0	2.2	2.2	1.8	2.1	2.8	2.6	2.7	3.3	3.1	2.5	-0.6
African American	1.0	1.3	1.6	1.1	0.8	1.3	1.3	0.8	0.8	0.8	0.7	0.9	0.8	0.8	0.7	0.8	1.0	0.9	0.8	-0.1
Hispanic	6.4	7.4	6.3	5.9	7.0	7.6	5.8	3.8	1.8	1.7	1.7	1.4	1.8	1.8	1.3	0.9	1.0	1.3	1.7	+0.4

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.



**TABLE 29**  
**HALLUCINOGENS OTHER THAN LSD: Trends in Annual Prevalence of Use**  
**by Subgroups in Grade 8**

	Percentage who used in last 12 months																							2012–2013
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001 <sup>a</sup>	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	change
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	0.7	1.1	1.0	1.3	1.7	2.0	1.8	1.6	1.5	1.4‡	2.4	2.1	2.1	1.9	2.0	1.8	1.6	1.6	1.5	1.8	1.8	1.3	1.2	-0.1
Gender:																								
Male	0.8	1.1	1.2	1.6	1.9	2.1	2.1	1.8	1.8	1.5‡	2.8	2.4	2.4	1.9	2.2	1.8	1.7	1.6	1.7	2.1	2.1	1.3	1.2	-0.1
Female	0.6	1.0	0.9	0.9	1.4	1.7	1.4	1.4	1.1	1.3‡	2.0	1.7	1.8	1.8	1.8	1.7	1.4	1.5	1.4	1.6	1.4	1.2	1.1	-0.1
College Plans:																								
None or under 4 years	1.7	3.6	2.9	3.6	4.8	5.2	4.7	5.1	5.3	3.9‡	7.4	6.5	7.5	6.5	6.1	5.5	6.0	6.9	5.9	6.0	5.8	3.8	3.7	0.0
Complete 4 years	0.5	0.7	0.7	1.0	1.3	1.4	1.4	1.2	1.0	1.2‡	1.8	1.6	1.5	1.4	1.6	1.4	1.2	1.1	1.2	1.5	1.5	1.1	1.0	-0.1
Region:																								
Northeast	0.4	0.6	0.7	1.4	1.8	2.1	1.7	1.2	1.4	1.3‡	2.1	1.3	1.9	1.6	1.5	1.2	0.8	1.0	1.3	1.4	0.9	1.2	0.5	-0.7
Midwest	0.6	1.3	0.6	1.1	1.6	1.8	1.8	1.9	1.7	1.8‡	1.8	2.1	2.2	1.7	1.9	1.7	1.7	1.4	1.4	2.0	1.4	0.7	1.1	+0.5
South	0.7	1.0	1.0	1.0	1.5	1.7	1.4	1.8	1.6	1.3‡	2.9	2.2	2.2	1.9	2.4	1.8	1.4	1.7	1.4	1.4	1.5	1.6	1.3	-0.3
West	1.4	1.3	1.9	1.9	1.9	2.6	2.7	1.3	1.1	1.4‡	2.4	2.6	2.3	2.2	2.0	2.2	2.3	1.8	2.1	2.6	3.4	1.4	1.5	0.0
Population Density:																								
Large MSA	0.7	0.8	0.7	1.6	1.6	1.8	1.4	1.3	1.1	1.2‡	1.9	1.6	1.6	1.4	2.0	1.2	1.3	1.4	1.2	1.6	1.7	1.4	1.0	-0.3
Other MSA	0.7	1.3	1.3	1.4	1.8	2.2	1.9	1.6	1.5	1.7‡	2.6	1.9	2.1	2.1	2.0	2.0	1.6	1.7	1.6	2.0	2.2	1.4	1.2	-0.2
Non-MSA	0.7	1.0	0.9	0.8	1.5	1.7	1.9	2.0	1.9	1.3‡	2.6	3.0	3.0	2.0	2.2	2.1	2.0	1.3	1.8	1.7	1.1	0.9	1.2	+0.3
Parental Education: <sup>b</sup>																								
1.0–2.0 (Low)	1.5	1.8	1.4	1.6	2.4	2.2	2.6	2.7	2.6	2.5‡	5.0	3.4	3.5	3.9	2.7	2.3	2.5	3.1	3.3	2.7	3.1	1.6	1.8	+0.3
2.5–3.0	0.8	0.7	1.1	1.1	1.7	2.1	2.0	1.3	1.9	1.5‡	2.3	2.6	2.8	2.0	2.9	2.2	1.5	1.7	1.3	2.4	2.3	1.5	1.4	-0.2
3.5–4.0	0.4	1.2	1.2	1.2	1.8	2.0	1.6	1.8	1.3	1.3‡	2.6	1.9	2.2	1.7	2.6	1.8	1.9	1.7	1.6	2.0	1.9	1.7	1.2	-0.5
4.5–5.0	0.8	0.9	0.7	1.5	1.6	2.0	1.6	1.5	0.9	1.1‡	1.6	1.7	1.5	1.6	1.6	1.7	1.2	1.2	1.3	1.7	1.4	0.8	0.9	+0.1
5.5–6.0 (High)	0.8	1.3	0.9	1.5	1.7	1.4	1.9	1.9	1.5	2.0‡	1.9	1.5	1.6	1.6	1.0	1.2	0.9	1.3	1.3	1.0	1.2	1.1	1.0	-0.1
Race/Ethnicity (2-year average): <sup>c</sup>																								
White	—	0.9	1.0	1.2	1.7	2.1	2.1	1.8	1.6	1.6	1.4‡	1.5 <sup>d</sup>	2.3	2.2	2.1	2.2	1.8	1.7	1.6	1.8	1.8	1.3	1.1	-0.2
African American	—	0.4	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3‡	0.4 <sup>d</sup>	0.6	0.8	0.9	0.9	0.6	0.6	0.6	0.6	0.5	0.7	0.7	-0.1
Hispanic	—	1.5	1.5	1.5	1.8	2.1	2.0	2.2	2.2	1.8	1.2‡	1.8 <sup>d</sup>	2.2	2.2	2.1	1.4	1.6	1.9	1.8	2.1	2.6	2.3	1.6	-0.7

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

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

See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>In 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. The 2001 data are based on the changed forms only; N is one half of N indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>d</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

**TABLE 30**  
**HALLUCINOGENS OTHER THAN LSD: Trends in Annual Prevalence of Use**  
**by Subgroups in Grade 10**

	Percentage who used in last 12 months																							2012– 2013 change	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001 <sup>a</sup>	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
<i>Approximate weighted N =</i>	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900		
Total	1.3	1.4	1.9	2.4	2.8	3.3	3.3	3.4	3.2	3.1†	4.4	4.0	3.6	3.7	3.5	3.7	3.8	3.3	3.5	3.5	3.5	3.0	2.7	-0.3	
Gender:																									
Male	1.5	1.6	2.5	3.0	3.4	3.8	4.1	3.9	4.1	3.8†	5.7	4.6	4.4	4.3	4.2	4.1	4.7	4.0	4.4	4.4	4.1	4.0	3.5	-0.5	
Female	1.1	1.1	1.2	1.7	2.1	2.7	2.5	2.8	2.3	2.4†	3.1	3.4	2.8	3.2	2.9	3.1	3.0	2.6	2.6	2.5	2.9	2.1	2.0	-0.1	
College Plans:																									
None or under 4 years	2.5	2.7	3.7	4.8	5.3	6.2	4.8	7.3	6.7	6.1†	10.9	8.8	7.3	8.2	8.5	9.0	8.9	9.0	9.0	10.0	9.4	8.7	4.8	-3.9 ss	
Complete 4 years	1.1	1.1	1.5	1.9	2.3	2.7	3.0	2.6	2.6	2.6†	3.3	3.3	2.9	3.1	2.8	3.0	3.2	2.6	2.9	2.8	2.8	2.4	2.5	0.0	
Region:																									
Northeast	1.4	0.7	2.3	3.2	3.0	3.9	3.2	4.7	4.5	3.4†	4.2	3.6	3.4	4.3	4.4	3.7	4.1	2.9	2.7	3.3	3.3	2.8	1.8	-1.0	
Midwest	1.0	1.2	1.7	1.9	2.2	3.2	3.4	3.2	2.8	3.3†	4.0	4.3	2.9	3.3	3.6	3.7	4.0	3.3	3.8	2.9	2.9	2.4	2.3	-0.1	
South	1.3	1.2	1.5	2.1	2.7	3.1	3.1	3.2	2.7	2.9†	3.6	3.4	3.5	3.3	3.0	3.0	3.1	3.5	3.3	3.5	3.4	3.0	2.8	-0.2	
West	1.6	2.6	2.5	3.0	3.5	3.0	3.6	2.5	3.3	3.0†	6.7	5.1	4.5	4.2	3.3	4.7	4.4	3.6	4.3	4.4	4.6	3.9	3.7	-0.2	
Population Density:																									
Large MSA	1.4	1.5	1.9	2.4	2.7	3.4	3.3	3.1	3.1	3.9†	3.4	4.0	2.8	2.7	2.9	3.8	3.4	3.3	3.4	3.2	3.5	2.8	2.0	-0.8	
Other MSA	1.4	1.4	1.9	2.5	3.0	3.5	3.2	3.4	3.5	2.9†	4.8	4.0	3.9	4.4	3.9	3.7	4.1	3.6	3.6	3.7	3.8	3.2	3.1	0.0	
Non-MSA	1.0	1.2	2.0	2.3	2.5	2.7	3.5	3.5	2.7	2.8†	4.5	3.9	3.8	3.6	3.6	3.3	3.8	2.9	3.4	3.6	3.0	2.9	2.7	-0.1	
Parental Education: <sup>b</sup>																									
1.0–2.0 (Low)	1.5	1.5	2.0	2.6	3.3	3.4	2.4	2.9	3.4	2.5†	4.8	4.4	5.2	2.8	3.1	4.7	4.5	4.7	5.0	4.7	4.9	4.1	3.6	-0.5	
2.5–3.0	1.2	1.0	1.4	1.8	2.7	3.4	2.7	4.2	3.0	2.6†	4.4	4.3	4.2	4.5	4.1	3.8	3.9	3.3	3.2	5.0	4.1	3.5	3.5	0.0	
3.5–4.0	1.3	1.7	2.3	2.3	3.0	3.2	3.6	3.0	2.8	3.2†	4.3	4.0	3.3	3.6	3.6	3.4	4.1	3.5	3.7	3.4	3.3	2.8	3.0	+0.2	
4.5–5.0	1.2	1.5	1.9	2.6	2.5	3.3	3.7	3.0	3.7	3.7†	4.4	3.5	3.2	3.5	3.5	3.7	3.8	2.9	3.2	2.8	3.1	2.9	2.4	-0.5	
5.5–6.0 (High)	1.8	1.1	2.1	2.8	2.5	3.5	3.6	3.7	3.7	3.7†	3.9	4.6	3.0	3.5	3.3	3.8	3.3	2.6	3.8	2.6	3.2	2.4	2.0	-0.4	
Race/Ethnicity (2-year average): <sup>c</sup>																									
White	—	1.5	1.8	2.3	2.8	3.4	3.9	4.0	4.0	3.8	3.4†	4.0 <sup>d</sup>	4.7	4.4	4.2	4.2	4.4	4.2	3.9	3.8	3.8	3.5	3.0	-0.5	
African American	—	0.1	0.4	0.7	0.7	0.4	0.3	0.4	0.5	0.6	1.1†	1.3 <sup>d</sup>	0.9	0.7	1.1	1.2	0.8	0.7	1.1	1.2	1.0	1.1	1.1	0.0	
Hispanic	—	1.3	1.5	1.9	2.0	2.1	2.4	2.8	2.6	2.0	1.6†	2.5 <sup>d</sup>	2.9	3.2	3.5	3.0	2.3	2.9	3.6	3.7	3.7	3.5	2.9	-0.6	

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

Notes. " † " indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. " — " indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>In 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. The 2001 data are based on the changed forms only; N is one half of N indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>d</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

**TABLE 31**  
**HALLUCINOGENS OTHER THAN LSD: Trends in Annual Prevalence of Use**  
**by Subgroups in Grade 12**

	Percentage who used in last 12 months																			→ (Years cont.)
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
<i>Approximate weighted N =</i>	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400
Total	9.4	7.0	6.9	7.3	6.8	6.2	5.6	4.7	4.1	3.8	3.6	3.0	3.2	2.1	2.2	2.1	2.0	1.7	2.2	3.1
Gender:																				
Male	12.1	8.8	8.9	8.8	8.0	8.0	6.9	5.7	4.9	4.8	4.6	3.4	3.7	2.7	3.1	3.0	2.7	2.3	3.0	4.3
Female	7.5	5.0	4.9	5.5	5.3	4.2	4.0	3.6	3.1	2.7	2.5	2.5	2.6	1.4	1.1	1.1	1.3	1.2	1.3	1.9
College Plans:																				
None or under 4 years	—	8.3	8.6	8.1	7.6	6.7	6.0	5.1	4.8	4.5	4.1	3.3	3.5	2.5	2.7	2.1	2.4	2.2	2.5	3.2
Complete 4 years	—	5.2	4.9	5.7	5.3	5.1	5.0	4.1	3.1	3.0	2.9	2.5	2.8	1.8	1.9	1.9	1.9	1.5	2.0	2.9
Region:																				
Northeast	12.0	7.8	8.2	10.3	10.2	10.0	9.0	8.1	6.1	8.4	7.1	5.1	4.8	2.6	2.5	2.9	3.5	2.5	2.6	5.1
Midwest	11.3	7.9	7.9	7.6	6.8	6.7	5.7	4.8	4.4	2.9	3.1	2.7	3.5	1.6	2.3	1.7	1.9	1.8	2.0	3.1
South	7.1	5.7	5.4	4.8	4.1	3.1	2.0	1.8	2.4	1.5	1.5	1.4	1.7	2.0	1.9	1.7	1.0	1.3	1.8	1.9
West	7.7	6.7	6.3	7.2	6.6	5.9	6.9	4.9	4.1	4.5	3.6	3.3	3.3	2.5	2.3	2.6	2.6	1.8	2.9	3.6
Population Density:																				
Large MSA	11.1	7.8	7.5	9.3	8.8	8.5	8.1	7.3	6.6	6.9	6.1	5.1	4.8	3.3	2.6	2.3	1.8	2.1	2.5	3.6
Other MSA	10.7	7.3	7.2	6.9	7.2	6.5	5.0	3.7	4.0	3.1	3.0	2.4	2.5	1.7	2.0	2.4	2.6	1.7	2.2	3.6
Non-MSA	6.8	6.1	6.1	6.1	4.7	4.1	4.4	4.0	2.4	2.4	2.4	2.1	2.9	1.6	2.1	1.5	1.2	1.4	2.0	1.8
Parental Education: <sup>a</sup>																				
1.0–2.0 (Low)	7.5	5.1	5.4	5.7	4.7	5.8	3.9	3.7	3.6	2.8	2.7	2.3	3.4	2.7	2.0	1.5	1.9	1.3	1.7	2.2
2.5–3.0	8.7	7.6	6.9	7.2	6.5	5.9	5.1	4.7	3.6	3.8	3.5	3.1	2.9	1.5	1.8	1.2	1.6	1.6	1.5	2.4
3.5–4.0	9.1	7.5	7.4	7.3	6.6	5.8	5.8	4.8	4.5	3.6	4.1	3.2	3.0	1.8	1.8	2.2	2.0	1.8	2.4	2.9
4.5–5.0	9.7	8.4	7.0	7.8	7.5	6.4	6.0	4.7	3.9	3.8	3.6	2.7	3.3	2.2	2.6	2.8	2.4	1.7	2.7	3.7
5.5–6.0 (High)	7.4	7.2	7.8	7.9	9.2	7.2	7.0	6.7	4.6	5.3	2.6	2.8	3.5	3.1	3.3	3.6	2.4	2.1	3.0	4.4
Race/Ethnicity (2-year average): <sup>b</sup>																				
White	—	—	7.6	7.6	7.5	7.0	6.3	5.6	4.7	4.3	4.0	3.5	3.4	3.0	2.4	2.4	2.4	2.2	2.2	3.0
African American	—	—	1.6	1.6	1.3	1.4	1.3	1.2	1.6	1.3	0.8	0.9	0.9	0.6	0.5	0.4	0.3	0.3	0.5	0.7
Hispanic	—	—	5.1	5.2	4.8	4.4	4.5	4.8	4.2	3.4	3.7	3.3	2.1	1.7	1.6	1.5	1.7	1.4	1.4	1.6

(Table continued on next page.)

**TABLE 31 (cont.)**  
**HALLUCINOGENS OTHER THAN LSD: Trends in Annual Prevalence of Use**  
**by Subgroups in Grade 12**

	Percentage who used in last 12 months																			2012– 2013 change	
	1995	1996	1997	1998	1999	2000	2001 <sup>c</sup>	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	3.8	4.4	4.6	4.6	4.3	4.4‡	5.9	5.4	5.4	5.6	5.0	4.6	4.8	5.0	4.2	4.8	4.3	4.0	3.7	-0.4	
Gender:																					
Male	5.3	5.7	5.9	6.0	5.4	5.8‡	7.2	7.2	7.2	7.7	6.7	5.7	6.8	6.7	5.7	6.9	5.9	5.3	5.0	-0.3	
Female	2.1	2.8	3.2	3.0	3.1	2.9‡	4.2	3.5	3.4	3.4	3.2	3.3	2.9	3.4	2.6	2.5	2.7	2.6	2.2	-0.4	
College Plans:																					
None or under 4 years	4.4	5.1	4.7	6.1	4.4	5.6‡	7.3	7.9	7.3	6.9	6.8	6.5	7.2	6.3	5.0	7.1	6.7	4.7	4.9	+0.1	
Complete 4 years	3.4	4.0	4.4	3.9	4.0	3.8‡	5.0	4.6	4.5	4.9	4.4	4.1	4.2	4.7	3.9	4.2	3.8	3.9	3.3	-0.5	
Region:																					
Northeast	5.3	6.1	6.6	6.3	5.5	5.0‡	6.9	7.5	7.3	6.7	4.9	6.4	6.0	7.2	3.8	5.0	4.7	4.0	3.3	-0.7	
Midwest	3.2	3.5	2.8	4.1	3.7	3.6‡	6.9	5.0	4.7	4.6	6.3	4.7	4.6	3.9	5.3	4.5	4.2	4.1	4.1	0.0	
South	3.1	3.6	4.0	3.5	3.3	3.3‡	3.1	4.5	4.3	4.9	4.7	3.8	3.8	4.6	3.7	3.9	3.2	3.5	3.5	0.0	
West	4.5	5.4	6.1	5.5	5.7	6.9‡	8.0	5.6	6.0	6.9	4.0	4.2	5.7	5.4	4.0	6.2	5.8	4.7	3.7	-1.0	
Population Density:																					
Large MSA	4.9	5.2	4.0	4.4	4.5	5.2‡	7.6	5.9	3.9	5.2	5.1	5.5	5.5	6.0	4.5	5.0	4.1	4.8	3.7	-1.2	
Other MSA	3.7	4.7	5.4	5.1	4.2	4.3‡	5.4	5.8	6.5	6.6	5.4	4.2	4.7	4.9	4.3	5.1	4.7	4.0	4.1	+0.1	
Non-MSA	2.7	3.1	3.6	3.7	4.2	3.8‡	4.8	4.3	5.1	4.1	4.0	3.9	4.1	4.4	3.6	3.6	3.6	2.8	2.6	-0.2	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	2.7	3.5	2.7	3.7	2.2	3.8‡	3.8	4.3	4.7	3.3	2.9	4.9	3.5	3.4	3.0	3.1	4.5	2.8	3.5	+0.7	
2.5–3.0	3.4	3.0	3.5	3.9	3.3	3.6‡	5.4	5.4	4.3	4.9	5.1	4.5	4.3	3.9	4.1	4.1	3.7	4.3	3.5	-0.8	
3.5–4.0	3.6	4.0	4.8	4.6	5.1	4.2‡	6.1	5.6	5.9	6.0	4.9	4.9	4.9	4.8	4.4	5.5	4.3	4.1	4.2	0.0	
4.5–5.0	4.2	5.2	5.3	5.0	4.4	4.6‡	5.5	5.8	6.0	6.3	5.3	4.3	4.9	6.0	4.7	4.7	4.0	4.3	3.0	-1.3 s	
5.5–6.0 (High)	4.1	5.9	5.9	5.4	4.7	5.8‡	6.6	5.1	4.8	5.6	5.3	4.5	5.8	6.1	4.1	4.8	5.1	3.4	4.3	+0.9	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	3.8	4.4	5.2	5.6	5.2	4.8	4.7‡	5.4 <sup>d</sup>	6.3	6.4	6.1	5.5	5.6	6.0	5.6	5.4	5.5	4.9	4.4	-0.6	
African American	0.8	0.8	0.7	0.6	0.6	1.0	0.9‡	0.9 <sup>d</sup>	0.9	0.9	1.2	1.4	1.2	1.0	0.9	1.0	1.3	1.4	1.3	-0.1	
Hispanic	2.6	3.5	3.1	2.7	3.0	4.6	4.8‡	4.1 <sup>d</sup>	4.1	3.7	3.6	3.5	3.4	3.0	2.8	3.0	2.8	2.6	3.0	+0.4	

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

Notes. ' ‡ ' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes:

s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>c</sup>In 2001 the question text was changed on half of the questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. The 2001 data are based on the changed forms only; *N* is one half of *N* indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

<sup>d</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

**TABLE 32**  
**ECSTASY (MDMA): Trends in Annual Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 12 months																							2012– 2013 change
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	—	—	—	—	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	—	—	—	—	—	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	0.0
Gender:																								
Male	—	—	—	—	—	2.2	2.7	2.3	1.7	3.1	3.4	3.1	1.8	1.7	1.6	1.0	1.3	1.4	1.3	2.5	2.0	0.9	1.1	+0.2
Female	—	—	—	—	—	2.3	2.0	1.3	1.7	3.0	3.7	2.6	2.2	1.8	1.7	1.7	1.7	2.0	1.2	2.4	1.4	1.2	1.1	-0.1
College Plans:																								
None or under 4 years	—	—	—	—	—	4.8	6.1	4.8	5.3	6.5	9.2	9.1	6.9	5.4	5.9	3.8	5.4	6.9	4.9	9.9	4.7	3.0	3.1	+0.1
Complete 4 years	—	—	—	—	—	1.9	2.0	1.5	1.2	2.7	2.9	2.3	1.5	1.3	1.3	1.2	1.1	1.3	1.0	1.9	1.5	0.9	1.0	+0.1
Region:																								
Northeast	—	—	—	—	—	2.1	1.5	1.6	1.8	2.4	3.8	2.0	1.8	1.8	1.1	0.8	0.5	1.2	1.0	1.2	0.9	1.2	0.6	-0.6
Midwest	—	—	—	—	—	1.7	1.7	1.7	1.4	3.5	2.9	2.3	2.1	1.4	1.7	1.6	1.2	1.4	1.0	2.4	0.9	0.3	1.2	+0.9 s
South	—	—	—	—	—	2.8	2.3	2.7	1.8	3.2	3.7	3.7	2.5	1.9	2.1	2.0	1.8	1.8	1.1	2.5	1.5	1.4	1.3	-0.1
West	—	—	—	—	—	2.3	3.8	0.8	1.7	2.9	3.6	3.0	1.6	1.7	1.5	0.7	1.9	2.2	2.2	3.2	3.7	1.3	1.2	-0.1
Population Density:																								
Large MSA	—	—	—	—	—	2.9	1.8	1.8	1.6	3.0	3.1	2.6	1.8	2.1	1.6	1.1	1.4	1.9	1.3	2.5	1.9	1.1	1.1	-0.1
Other MSA	—	—	—	—	—	2.5	3.1	2.1	1.8	3.4	4.3	3.3	1.9	1.9	1.6	1.6	1.5	1.7	1.4	2.6	1.9	1.3	1.3	0.0
Non-MSA	—	—	—	—	—	1.2	1.5	1.5	1.6	2.5	2.5	2.5	2.7	1.0	1.9	1.6	1.8	1.3	1.0	2.0	1.2	0.6	0.8	+0.2
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	—	—	—	—	—	2.9	2.2	2.1	2.5	4.2	5.8	6.0	3.6	3.6	2.5	2.8	3.1	4.1	1.8	5.0	2.2	2.1	2.3	+0.1
2.5–3.0	—	—	—	—	—	2.2	2.4	1.4	2.0	3.9	4.3	3.6	3.1	2.2	3.0	1.5	1.9	1.7	1.6	3.8	2.2	1.7	1.2	-0.5
3.5–4.0	—	—	—	—	—	2.2	2.9	2.6	1.5	2.8	2.4	2.9	2.1	1.7	1.7	1.2	1.1	2.1	1.4	2.2	2.1	1.0	1.0	0.0
4.5–5.0	—	—	—	—	—	2.6	2.0	1.4	1.2	3.1	3.3	2.4	1.4	1.2	1.1	1.3	1.4	1.0	1.1	1.9	1.5	0.6	1.1	+0.5
5.5–6.0 (High)	—	—	—	—	—	2.4	2.7	2.5	2.3	2.0	3.0	1.2	2.0	1.7	0.9	1.2	0.8	0.8	1.1	1.1	1.1	0.6	0.6	0.0
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	—	—	—	—	—	2.7	2.4	1.9	2.5	3.2	2.9	2.4	1.9	1.5	1.5	1.4	1.6	1.5	1.9	1.8	1.0	0.9	-0.2
African American	—	—	—	—	—	—	0.3	0.4	0.5	0.6	1.1	1.1	1.0	1.6	1.8	1.4	1.2	0.7	0.4	0.7	1.1	1.0	0.9	-0.1
Hispanic	—	—	—	—	—	—	2.5	1.7	1.9	3.3	5.3	5.9	4.0	2.3	2.3	1.8	1.8	2.1	2.1	2.6	3.1	2.4	1.8	-0.6

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

Notes. Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1996;

$N$  is one half of  $N$  indicated in Table S1. Data based on one of four forms in 1997–2001;  $N$  is one third of  $N$  indicated in Table S1. Data based on two of four forms beginning in 2002;  $N$  is one half of  $N$  indicated in Table S1.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 33**  
**ECSTASY (MDMA): Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months																							2012– 2013 change
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	—	—	—	—	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	—	—	—	—	—	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	+0.6
Gender:																								
Male	—	—	—	—	—	4.9	4.7	3.5	4.7	5.7	7.6	4.3	2.8	2.4	2.6	3.3	3.7	3.4	3.7	5.4	4.9	3.3	4.4	+1.1
Female	—	—	—	—	—	4.2	3.1	2.9	4.2	4.8	4.9	5.2	3.2	2.4	2.5	2.2	3.1	2.4	3.5	4.0	3.8	2.6	2.9	+0.2
College Plans:																								
None or under 4 years	—	—	—	—	—	7.7	7.5	5.4	8.5	10.7	13.6	10.1	5.7	5.4	5.6	6.9	7.4	7.5	8.6	9.2	10.6	8.3	7.0	-1.2
Complete 4 years	—	—	—	—	—	4.0	3.3	2.9	3.7	4.5	5.1	4.1	2.6	2.0	2.2	2.2	3.0	2.3	3.1	4.2	3.8	2.4	3.2	+0.7
Region:																								
Northeast	—	—	—	—	—	4.4	3.0	3.8	7.0	6.4	8.2	4.4	2.7	2.6	2.2	2.2	2.9	2.0	2.0	3.7	3.2	1.9	3.3	+1.4
Midwest	—	—	—	—	—	3.6	3.2	2.2	2.3	5.2	4.8	4.6	2.5	1.9	3.0	2.8	3.5	2.0	2.8	3.1	2.1	2.4	3.1	+0.7
South	—	—	—	—	—	5.6	5.0	4.1	4.1	5.2	5.9	5.1	3.8	2.6	2.6	3.0	3.6	2.8	3.2	4.5	3.9	2.8	3.9	+1.1
West	—	—	—	—	—	4.1	3.7	2.7	4.4	5.0	6.8	5.2	3.0	2.7	2.5	3.0	3.8	4.5	6.8	7.8	9.2	4.8	3.8	-1.0
Population Density:																								
Large MSA	—	—	—	—	—	5.6	4.0	2.5	5.2	7.0	7.3	5.1	2.4	1.8	3.0	2.9	3.0	3.8	3.3	4.8	4.8	3.8	3.1	-0.7
Other MSA	—	—	—	—	—	4.6	3.6	4.1	4.7	5.3	5.5	5.2	3.1	3.1	2.5	2.7	3.7	2.7	4.0	5.3	5.1	2.9	4.6	+1.8 ss
Non-MSA	—	—	—	—	—	3.3	4.2	2.7	2.8	3.7	6.3	3.7	3.8	2.0	2.3	2.8	3.8	2.0	3.5	3.3	3.0	1.9	1.7	-0.2
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	—	—	—	—	—	4.8	3.0	1.9	3.7	7.0	7.2	5.8	2.4	3.3	4.4	3.8	4.3	4.8	6.0	8.5	9.5	5.6	3.5	-2.1
2.5–3.0	—	—	—	—	—	4.7	3.9	3.1	4.4	4.9	6.5	5.5	3.8	3.3	2.8	2.9	4.7	3.5	4.8	5.6	5.0	3.0	5.0	+2.0 s
3.5–4.0	—	—	—	—	—	4.7	5.2	4.3	4.0	6.3	7.0	5.5	3.5	2.1	3.3	2.5	3.2	3.2	3.8	4.8	4.4	2.5	3.5	+0.9
4.5–5.0	—	—	—	—	—	4.2	2.5	2.9	4.3	5.0	5.3	3.9	2.7	2.3	2.2	2.7	3.2	2.0	2.5	3.6	2.5	2.9	3.1	+0.2
5.5–6.0 (High)	—	—	—	—	—	5.3	4.0	4.4	5.6	4.8	5.8	4.6	2.3	1.4	1.4	3.3	2.8	2.1	3.4	3.6	3.8	2.5	3.0	+0.4
Race/Ethnicity (2-year average) <sup>b</sup>																								
White	—	—	—	—	—	—	4.8	4.0	4.4	5.3	6.0	6.2	4.6	3.1	2.7	2.9	3.5	3.4	2.9	3.7	4.0	3.2	2.9	-0.2
African American	—	—	—	—	—	—	0.8	1.2	1.3	1.5	2.2	1.8	1.5	0.9	0.6	1.0	1.3	1.3	1.5	1.9	2.2	1.8	1.3	-0.6
Hispanic	—	—	—	—	—	—	3.6	2.3	2.4	4.6	5.4	4.3	3.4	3.0	4.3	3.9	2.7	3.8	5.6	7.3	8.7	7.3	5.1	-2.1

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1996;

N is one half of N indicated in Table S2. Data based on one of four forms in 1997–2001; N is one third of N indicated in Table S2. Data based on two of four forms beginning in 2002; N is one half of N indicated in Table S2.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 34**  
**ECSTASY (MDMA): Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			2012– 2013 change	
	1975– 1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
<i>Approximate weighted N =</i>	—	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	—	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	+0.2	
Gender:																					
Male	—	4.8	5.6	4.8	5.6	8.1	10.5	8.2	4.8	4.7	3.3	4.3	5.0	5.5	5.5	5.3	6.3	4.1	5.0	+0.9	
Female	—	4.2	2.5	2.7	5.6	8.2	8.0	6.4	4.0	3.2	2.7	4.0	4.1	3.3	3.2	3.6	4.6	3.4	2.9	-0.5	
College Plans:																					
None or under 4 years	—	6.9	3.8	4.7	4.2	8.5	9.8	8.9	6.5	5.3	3.7	6.0	6.5	7.2	6.1	4.7	8.5	4.8	4.3	-0.4	
Complete 4 years	—	4.0	3.9	3.3	6.2	8.0	8.7	7.1	3.9	3.6	2.8	3.7	3.9	3.7	3.9	4.4	4.7	3.4	4.0	+0.6	
Region:																					
Northeast	—	6.3	6.9	3.7	9.4	8.8	10.1	10.3	5.1	3.5	3.0	2.9	4.3	2.9	3.8	4.5	5.9	3.7	4.6	+1.0	
Midwest	—	3.7	1.3	2.7	3.3	5.7	11.8	5.0	4.7	3.0	3.0	3.4	4.4	2.8	4.5	3.5	3.7	2.4	3.9	+1.5	
South	—	4.6	4.3	4.0	5.7	5.9	5.7	7.9	4.2	5.1	3.4	4.9	4.6	4.6	3.8	3.6	4.4	3.2	3.7	+0.5	
West	—	3.9	4.1	4.0	5.0	14.4	10.3	6.8	4.2	3.8	2.5	4.6	4.7	6.6	5.2	6.9	7.9	5.9	4.0	-2.0	
Population Density:																					
Large MSA	—	3.6	3.6	3.2	6.1	8.7	10.9	8.4	4.3	4.0	3.5	6.1	5.8	4.7	4.1	5.2	5.8	5.1	5.1	-0.1	
Other MSA	—	5.1	4.6	4.3	6.1	8.4	9.7	8.1	5.0	4.5	3.2	3.1	4.0	4.8	4.7	4.9	5.7	3.7	3.9	+0.3	
Non-MSA	—	4.5	3.4	2.7	4.2	7.4	6.4	4.6	4.0	2.8	2.1	3.1	3.7	2.8	3.5	2.2	3.7	1.8	2.6	+0.8	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	—	5.5	3.5	4.2	6.8	7.3	3.8	4.8	4.1	4.6	3.0	3.8	4.7	4.0	6.2	3.8	6.3	3.7	5.3	+1.6	
2.5–3.0	—	5.0	3.1	3.2	5.1	7.7	10.3	8.0	3.8	3.7	3.9	3.6	4.9	4.0	2.5	4.9	5.5	3.5	3.8	+0.3	
3.5–4.0	—	4.9	3.8	3.2	5.7	6.2	8.4	7.5	5.7	4.6	2.8	3.9	4.4	5.3	4.6	4.7	5.0	4.1	4.1	0.0	
4.5–5.0	—	4.0	2.9	4.3	6.2	8.3	11.2	7.3	5.0	3.8	3.2	5.1	4.1	3.6	4.9	4.2	5.7	3.9	3.2	-0.7	
5.5–6.0 (High)	—	4.1	8.7	3.5	4.7	10.6	8.1	7.6	3.3	3.1	2.0	3.6	4.6	4.1	4.0	4.3	4.4	3.6	5.9	+2.3	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	—	—	5.2	4.7	5.1	7.6	9.6	8.5	6.4	4.7	3.9	4.0	4.9	4.8	4.6	4.5	5.1	4.9	4.0	-0.9	
African American	—	—	0.4	0.4	0.5	1.3	2.4	1.7	1.4	1.6	1.4	1.8	2.1	2.2	2.4	2.6	2.4	1.5	1.1	-0.5	
Hispanic	—	—	2.8	2.7	6.0	10.6	10.2	7.0	5.3	3.7	3.0	3.0	3.3	3.2	3.9	4.6	4.4	4.5	4.5	0.0	

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

Notes. Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms in 1996–2001;  $N$  is one sixth of  $N$  indicated in Table S3. Data based on two of six forms beginning in 2002;  $N$  is two sixths of  $N$  indicated in Table S3.

**Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.**

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 35**  
**SALVIA: Trends in Annual Prevalence of Use by Subgroups in Grades 8, 10, and 12**

Percentage who used in last 12 months

	8th Grade						10th Grade						12th Grade						
	2009	2010	2011	2012	2013	2012–2013 change	2009	2010	2011	2012	2013	2012–2013 change	2009	2010	2011	2012	2013	2012–2013 change	
<i>Approximate weighted N =</i>	15,000	15,300	16,000	15,100	14,600		15,900	15,200	14,900	15,000	12,900		13,700	14,400	14,100	13,700	12,600		
Total	—	1.7	1.6	1.4	1.2	-0.2	—	3.7	3.9	2.5	2.3	-0.2	5.7	5.5	5.9	4.4	3.4	-1.0 s	
Gender:																			
Male	—	2.6	2.0	1.4	1.6	+0.2	—	5.4	5.0	3.7	3.4	-0.3	9.3	8.5	8.6	5.6	5.0	-0.6	
Female	—	1.0	1.1	1.1	0.9	-0.2	—	1.9	2.7	1.4	1.3	-0.1	2.3	2.5	3.3	3.0	1.8	-1.2 s	
College Plans:																			
None or under 4 years	—	4.4	5.4	5.2	4.2	-1.0	—	8.1	12.1	8.2	5.4	-2.8	7.4	9.2	11.4	5.9	6.7	+0.8	
Complete 4 years	—	1.4	1.3	1.1	1.0	-0.1	—	3.2	2.9	1.9	2.0	+0.1	5.2	4.7	4.8	3.9	2.5	-1.4 ss	
Region:																			
Northeast	—	1.9	1.8	0.5	0.8	+0.3	—	2.8	5.0	3.6	2.6	-1.0	7.1	6.2	6.0	5.3	3.9	-1.4	
Midwest	—	1.6	1.1	0.4	0.3	-0.1	—	3.1	3.4	1.3	0.9	-0.3	5.0	5.0	3.1	2.6	1.3	-1.3	
South	—	1.4	1.5	2.4	1.1	-1.3 s	—	4.0	3.4	2.0	1.8	-0.2	4.8	5.3	5.2	3.8	3.6	-0.2	
West	—	2.4	2.1	1.2	2.6	+1.3 s	—	4.7	4.2	3.8	4.1	+0.3	6.9	6.1	9.9	6.5	5.2	-1.3	
Population Density:																			
Large MSA	—	2.0	1.3	1.9	1.4	-0.5	—	4.3	3.8	2.3	2.5	+0.3	7.8	6.7	7.0	5.0	2.8	-2.2 s	
Other MSA	—	1.6	2.1	1.3	1.1	-0.3	—	3.3	3.8	2.6	2.1	-0.5	5.0	5.5	6.1	4.7	4.2	-0.5	
Non-MSA	—	1.9	0.9	0.6	1.2	+0.5	—	3.7	4.1	2.7	2.6	-0.2	4.6	4.1	4.1	2.9	2.5	-0.3	
Parental Education: <sup>a</sup>																			
1.0–2.0 (Low)	—	2.3	4.7	1.4	2.3	+0.9	—	5.8	2.6	3.6	3.3	-0.4	5.8	5.4	6.3	8.3	7.1	-1.2	
2.5–3.0	—	1.7	2.5	1.3	1.1	-0.2	—	4.4	5.1	3.3	3.0	-0.4	4.6	4.4	5.3	3.7	4.1	+0.4	
3.5–4.0	—	0.9	1.7	1.0	1.4	+0.4	—	3.6	4.6	2.2	2.1	-0.1	6.2	6.0	6.6	3.5	3.1	-0.4	
4.5–5.0	—	2.1	1.0	1.5	1.4	-0.1	—	2.7	3.3	2.0	2.3	+0.3	5.5	5.6	5.4	4.6	2.6	-2.0 s	
5.5–6.0 (High)	—	1.5	0.2	1.4	0.5	-0.9	—	4.0	2.8	2.5	1.2	-1.3	7.0	6.7	6.0	4.2	2.3	-1.9	
Race/Ethnicity (2-year average): <sup>b</sup>																			
White	—	—	1.5	1.2	0.9	-0.3	—	—	3.9	3.4	2.3	-1.1 s	—	6.3	6.2	5.3	3.8	-1.5 s	
African American	—	—	1.4	1.5	1.4	-0.1	—	—	1.6	0.7	1.3	+0.6	—	2.5	2.5	2.8	2.6	-0.2	
Hispanic	—	—	2.1	2.4	2.2	-0.2	—	—	4.7	4.0	2.8	-1.2	—	4.4	4.6	5.6	4.8	-0.8	

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

Notes. '—' indicates data not available. See Tables S1, S2, and S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data for 8th and 10th graders based on one of four forms; *N* is one third of *N* indicated in Tables S1 and S2. Data for 12th graders based on two of six forms; *N* is two sixths of *N* indicated in Table S3.

**Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.**

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

See appendix B for details on how race/ethnicity is defined.



**TABLE 36**  
**COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 12 months																							2012– 2013 change
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	
<i>Approximate weighted N =</i>	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	1.1	1.5	1.7	2.1	2.6	3.0	2.8	3.1	2.7	2.6	2.5	2.3	2.2	2.0	2.2	2.0	2.0	1.8	1.6	1.6	1.4	1.2	1.0	-0.2
Gender:																								
Male	1.4	1.5	1.9	2.1	2.5	2.7	3.1	2.9	2.8	2.6	2.4	2.2	1.9	1.7	2.0	1.9	1.7	1.8	1.4	1.5	1.3	1.1	1.0	-0.1
Female	0.9	1.5	1.5	2.1	2.6	3.1	2.5	3.1	2.7	2.6	2.6	2.3	2.3	2.3	2.3	2.1	2.2	1.8	1.7	1.7	1.3	1.2	1.0	-0.2
College Plans:																								
None or under 4 years	3.2	4.8	5.4	6.6	7.0	7.9	7.5	9.4	8.1	7.5	7.0	7.2	7.1	6.8	6.1	7.1	6.5	6.9	6.4	5.6	5.5	4.6	3.4	-1.2
Complete 4 years	0.8	1.0	1.1	1.5	2.0	2.2	2.2	2.3	2.0	2.0	2.0	1.8	1.6	1.5	1.8	1.5	1.5	1.3	1.2	1.3	1.1	0.9	0.8	-0.1
Region:																								
Northeast	1.3	0.8	1.0	2.2	2.2	2.6	2.4	1.9	2.2	1.6	1.9	1.6	1.6	1.9	1.8	1.3	1.2	1.2	1.4	1.0	0.9	1.1	0.8	-0.3
Midwest	0.9	1.4	1.0	1.2	2.6	2.9	2.6	2.7	2.6	2.9	2.3	2.3	2.0	1.6	2.0	1.3	1.6	1.9	1.8	2.0	1.3	0.6	0.8	+0.2
South	1.1	1.7	2.1	2.5	2.4	2.7	2.6	3.8	3.1	2.2	3.2	2.6	2.5	2.1	2.4	2.9	2.3	2.2	1.2	1.6	1.3	1.4	1.0	-0.4
West	1.5	2.0	2.7	2.3	3.3	3.7	3.7	3.3	2.7	3.7	2.4	2.4	2.3	2.4	2.4	1.9	2.2	1.6	2.1	1.7	2.1	1.4	1.3	-0.1
Population Density:																								
Large MSA	1.1	1.4	1.3	1.9	2.4	2.8	2.4	2.3	2.1	2.3	2.1	2.0	1.7	2.2	2.2	1.9	1.9	2.0	1.1	1.4	1.5	1.3	1.0	-0.3
Other MSA	1.1	1.7	2.2	2.5	2.8	3.2	2.9	3.3	2.8	2.5	2.8	2.3	2.2	2.1	2.2	2.0	2.1	1.7	1.9	1.8	1.5	1.2	1.0	-0.1
Non-MSA	1.2	1.3	1.2	1.4	2.4	2.7	3.0	3.4	3.2	3.1	2.5	2.6	2.7	1.7	2.2	2.2	1.8	1.7	1.4	1.5	1.2	0.9	0.8	-0.1
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	2.4	3.2	2.9	3.5	4.9	3.9	4.7	6.3	5.6	5.3	4.4	3.7	4.1	3.3	4.2	4.4	3.8	3.6	3.9	3.3	2.6	2.6	2.1	-0.5
2.5–3.0	1.4	1.6	2.0	2.3	2.4	3.3	3.0	3.3	3.1	2.9	2.8	2.8	2.4	2.5	2.9	2.2	2.2	2.3	1.8	2.0	2.1	1.6	1.1	-0.5
3.5–4.0	0.7	1.2	1.8	2.1	2.8	3.3	2.8	3.1	2.8	2.5	2.4	2.2	2.2	2.0	2.5	2.0	1.8	1.8	1.5	1.6	1.6	1.2	0.9	-0.3
4.5–5.0	0.7	1.0	1.0	1.6	1.9	2.7	2.6	2.2	1.7	1.8	2.1	2.0	1.5	1.8	1.5	1.4	1.4	1.2	0.8	1.2	0.9	0.5	0.7	+0.1
5.5–6.0 (High)	1.2	1.5	1.1	1.9	2.5	2.5	2.3	2.5	2.5	2.2	1.6	1.5	2.0	1.2	1.2	1.5	1.3	1.4	1.5	1.2	0.8	0.7	0.8	+0.1
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	1.2	1.3	1.6	2.3	2.8	3.0	2.8	2.6	2.5	2.5	2.4	2.2	1.9	1.8	1.9	1.7	1.6	1.5	1.4	1.3	1.0	0.9	-0.2
African American	—	0.7	0.7	0.7	0.6	0.6	0.5	0.7	0.8	0.8	0.8	0.8	0.9	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.5	0.6	0.8	+0.2
Hispanic	—	3.1	4.0	4.5	4.7	4.8	4.3	5.2	5.9	4.7	4.2	4.1	3.8	3.6	3.6	3.5	3.8	3.5	2.8	2.8	2.9	2.6	1.8	-0.8

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

*Notes.* Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 37**  
**COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months																							2012–2013	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	change	
<i>Approximate weighted N =</i>	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900		
Total	2.2	1.9	2.1	2.8	3.5	4.2	4.7	4.7	4.9	4.4	3.6	4.0	3.3	3.7	3.5	3.2	3.4	3.0	2.7	2.2	1.9	2.0	1.9	-0.1	
Gender:																									
Male	2.2	2.0	2.5	3.1	3.5	4.5	4.7	4.9	5.2	4.7	3.8	4.2	3.3	3.9	3.6	3.2	3.6	3.0	2.8	2.7	2.3	2.3	2.5	+0.2	
Female	2.2	1.7	1.6	2.5	3.3	4.0	4.6	4.4	4.6	4.1	3.2	3.9	3.2	3.4	3.3	3.1	3.3	2.8	2.4	1.6	1.4	1.6	1.3	-0.3	
College Plans:																									
None or under 4 years	4.7	4.0	5.1	6.6	7.2	10.0	10.4	10.7	11.6	9.7	9.1	10.1	8.3	9.4	8.8	9.0	8.6	8.7	8.5	7.2	5.5	6.8	4.1	-2.7 s	
Complete 4 years	1.7	1.4	1.4	2.0	2.8	3.2	3.7	3.6	3.8	3.5	2.7	3.1	2.4	2.9	2.8	2.4	2.8	2.2	2.0	1.6	1.5	1.5	1.6	+0.2	
Region:																									
Northeast	1.5	1.0	2.0	2.4	2.5	3.0	3.0	4.9	4.6	3.1	2.3	2.4	3.1	3.4	3.6	2.5	2.9	2.0	2.4	2.0	2.0	1.3	1.2	-0.1	
Midwest	1.7	1.7	1.4	2.2	2.9	4.1	4.0	3.7	4.4	4.6	3.4	3.6	2.7	3.2	3.4	3.2	3.6	2.5	2.4	1.8	1.3	1.4	1.3	-0.1	
South	2.0	1.8	1.9	2.6	3.5	4.2	5.4	4.3	5.2	4.2	3.8	3.8	3.5	3.5	2.9	3.2	3.5	3.5	2.4	1.9	1.9	2.2	2.0	-0.2	
West	3.6	3.2	3.7	4.7	5.3	5.9	6.4	6.4	5.3	5.7	4.9	6.5	3.7	4.8	4.4	3.8	3.6	3.3	3.6	3.3	2.4	2.7	2.7	0.0	
Population Density:																									
Large MSA	1.9	1.6	1.6	2.3	3.4	3.8	4.5	4.3	4.1	4.3	3.2	3.6	2.5	3.3	3.3	2.8	3.3	2.8	2.4	2.1	1.9	2.1	1.8	-0.3	
Other MSA	2.7	2.1	2.3	3.1	3.5	4.7	4.3	4.7	5.1	4.2	3.7	4.4	3.2	3.8	3.4	3.2	3.4	3.3	3.1	2.3	2.0	1.7	2.1	+0.4	
Non-MSA	1.6	1.7	2.1	2.7	3.6	3.7	5.7	5.2	5.4	4.7	3.8	3.8	4.6	3.9	3.8	3.8	3.7	2.4	2.2	2.1	1.6	2.2	1.3	-1.0	
Parental Education: <sup>a</sup>																									
1.0–2.0 (Low)	3.3	3.5	3.2	3.8	5.3	7.4	6.3	8.1	8.2	7.7	5.6	7.9	7.0	6.5	5.3	6.5	6.4	6.8	6.0	4.4	3.4	5.3	3.1	-2.2	
2.5–3.0	2.4	1.7	2.2	2.9	4.3	4.5	5.0	5.5	5.9	5.4	5.2	4.8	3.9	4.2	4.6	4.1	3.9	3.5	3.3	2.5	2.0	2.3	2.4	0.0	
3.5–4.0	2.4	2.1	2.5	3.2	3.7	4.3	5.4	4.4	4.7	4.4	2.9	3.8	3.4	4.0	3.4	2.9	3.5	2.7	2.7	1.9	1.9	1.6	1.6	0.0	
4.5–5.0	1.6	1.4	1.6	2.1	2.6	3.4	3.7	3.5	3.9	3.2	2.7	2.4	2.2	3.0	2.8	2.0	2.5	2.2	1.6	1.8	1.4	1.5	1.4	0.0	
5.5–6.0 (High)	1.9	1.5	1.1	1.9	1.9	3.4	3.3	3.2	3.9	2.9	2.0	3.2	1.6	1.8	2.4	3.0	2.5	1.6	2.0	1.4	1.3	1.2	1.6	+0.4	
Race/Ethnicity (2-year average): <sup>b</sup>																									
White	—	2.1	2.0	2.2	3.0	3.8	4.4	4.7	4.9	4.7	3.9	3.9	3.9	3.7	3.7	3.5	3.5	3.2	2.6	2.1	1.7	1.6	1.6	0.0	
African American	—	0.6	0.6	1.0	0.9	0.7	0.8	1.0	0.9	0.6	0.8	1.0	0.9	0.8	1.0	1.0	0.8	0.8	0.9	0.9	0.7	1.3	1.6	+0.3	
Hispanic	—	3.7	3.7	4.9	5.5	7.0	8.5	8.3	8.2	8.0	6.6	6.0	6.1	5.8	6.4	5.9	4.9	5.2	5.2	4.6	4.1	3.8	3.7	0.0	

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 38**  
**COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			→ (Years cont.)
<i>Approximate weighted N =</i>	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400
<b>Total</b>	5.6	6.0	7.2	9.0	12.0	12.3	12.4	11.5	11.4	11.6	13.1	12.7	10.3	7.9	6.5	5.3	3.5	3.1	3.3	3.6
<b>Gender</b>																				
Male	7.5	7.5	9.3	11.4	14.6	14.8	13.8	13.1	13.2	13.8	14.8	14.3	11.3	9.1	8.1	6.6	4.1	3.7	4.0	4.5
Female	3.9	4.4	4.9	6.5	9.3	9.8	10.4	9.6	9.3	9.1	11.2	10.9	9.2	6.5	4.9	3.8	2.6	2.4	2.3	2.8
<b>College Plans</b>																				
None or under 4 years	—	6.6	8.1	9.5	13.7	13.2	12.4	12.5	12.2	13.2	14.7	15.7	12.4	9.7	9.3	7.8	4.9	5.1	4.5	5.3
Complete 4 years	—	5.0	5.5	7.7	9.5	10.8	11.5	9.9	9.9	9.7	11.4	10.4	9.0	6.7	5.3	4.1	2.8	2.4	2.8	3.0
<b>Region</b>																				
Northeast	5.3	6.6	7.9	11.8	13.8	14.2	16.8	16.9	15.2	19.5	20.8	17.9	13.3	9.1	7.3	6.5	3.8	2.8	3.1	3.1
Midwest	5.1	5.5	6.3	8.5	10.5	10.9	9.4	9.0	8.0	5.8	8.2	10.1	7.5	6.1	5.3	4.1	3.2	2.5	2.4	3.7
South	5.4	5.1	6.0	6.8	8.5	7.8	6.8	6.3	7.7	7.7	7.5	7.1	7.0	6.2	6.0	4.8	3.0	3.2	3.1	3.4
West	7.8	7.9	10.2	10.7	18.6	20.6	22.1	17.9	19.2	19.3	19.7	20.0	16.4	12.1	8.5	6.6	4.4	4.3	4.9	4.5
<b>Population Density</b>																				
Large MSA	7.3	8.6	8.6	12.3	16.6	18.7	17.5	17.2	16.9	16.8	18.8	18.8	12.9	9.3	6.4	5.6	4.1	3.6	2.7	3.3
Other MSA	5.9	5.8	7.3	8.9	11.7	11.3	11.5	10.1	11.2	11.0	12.4	12.0	10.1	8.5	7.1	5.4	3.7	3.3	3.9	4.1
Non-MSA	4.3	4.3	5.8	6.4	8.9	8.9	9.4	8.5	7.3	8.3	9.2	9.0	8.1	5.3	5.4	4.8	2.5	2.4	2.7	3.2
<b>Parental Education <sup>a</sup></b>																				
1.0–2.0 (Low)	4.5	5.3	5.5	6.3	8.4	9.0	8.3	7.6	9.0	9.4	12.0	10.5	8.7	7.6	6.7	4.7	3.5	3.9	3.5	4.1
2.5–3.0	4.6	6.1	6.8	8.7	11.1	11.2	10.5	11.0	9.8	10.9	12.7	12.9	9.9	7.4	6.4	5.6	3.8	3.3	3.0	4.0
3.5–4.0	4.5	5.9	7.2	9.0	13.2	13.3	13.3	12.5	11.7	12.2	14.0	13.6	11.2	7.2	6.4	5.6	3.7	3.0	3.8	3.8
4.5–5.0	6.3	7.6	8.1	10.4	14.0	13.6	14.9	13.6	13.1	12.2	13.7	12.2	10.0	8.7	7.1	4.4	3.1	2.9	3.0	3.1
5.5–6.0 (High)	5.2	7.1	9.5	11.6	15.2	16.3	16.2	13.8	15.1	13.4	11.9	12.5	10.8	8.1	5.8	5.5	2.4	2.6	2.4	3.3
<b>Race/Ethnicity (2-year average) <sup>b</sup></b>																				
White	—	—	6.5	8.3	10.9	12.8	13.0	12.6	11.8	11.9	13.0	13.5	12.0	9.6	7.6	6.3	4.6	3.3	3.1	3.5
African American	—	—	4.8	4.6	4.6	5.2	4.8	5.2	7.2	6.3	5.3	5.8	4.8	3.8	2.9	1.7	1.5	1.2	0.8	0.9
Hispanic	—	—	7.2	7.5	8.9	11.2	12.4	12.1	11.4	13.3	16.3	16.7	14.0	9.9	7.8	7.4	6.1	5.2	5.8	5.4

(Table continued on next page.)

**TABLE 38 (cont.)**  
**COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			2012– 2013 change	
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	4.0	4.9	5.5	5.7	6.2	5.0	4.8	5.0	4.8	5.3	5.1	5.7	5.2	4.4	3.4	2.9	2.9	2.7	2.6	-0.1	
Gender:																					
Male	4.8	6.0	6.6	6.8	7.3	5.8	5.4	5.9	5.9	6.5	5.8	6.0	5.9	5.2	4.1	4.0	3.6	3.3	3.4	+0.1	
Female	3.1	3.5	4.2	4.5	5.0	3.9	4.1	4.0	3.7	4.1	4.2	5.2	4.4	3.5	2.7	1.9	2.1	2.0	1.7	-0.3	
College Plans:																					
None or under 4 years	5.6	7.5	8.1	9.7	9.1	7.1	8.2	8.6	6.0	8.3	7.5	8.1	8.8	7.4	5.4	5.2	5.4	4.2	5.1	+0.9	
Complete 4 years	3.4	4.0	4.4	4.5	5.4	4.2	3.7	3.9	4.2	4.3	4.4	5.1	4.4	3.6	2.8	2.4	2.3	2.3	1.9	-0.3	
Region:																					
Northeast	3.8	5.5	6.6	5.9	4.3	4.1	4.8	5.0	5.2	5.0	4.7	6.7	6.0	4.5	2.8	3.3	2.8	2.1	2.7	+0.6	
Midwest	3.4	3.8	4.7	5.8	6.2	4.8	5.7	5.2	3.9	4.2	5.0	4.2	5.0	3.2	3.6	2.4	2.9	2.2	1.9	-0.4	
South	3.6	4.6	4.8	5.8	6.9	4.7	3.9	5.0	4.7	5.4	5.3	6.4	5.2	4.8	3.2	2.5	2.6	2.5	2.2	-0.3	
West	5.8	6.1	6.8	5.4	6.9	6.3	5.0	4.6	5.8	7.0	5.0	5.5	4.8	4.9	3.9	4.0	3.3	4.1	4.0	0.0	
Population Density:																					
Large MSA	4.4	4.8	4.7	5.4	5.0	4.1	4.3	4.1	3.8	4.7	5.2	7.4	5.0	4.4	3.4	3.3	2.9	2.9	2.6	-0.3	
Other MSA	3.9	4.9	5.6	5.8	6.6	4.9	5.0	5.4	5.7	5.8	5.2	4.8	5.4	4.3	3.3	3.1	2.9	2.9	3.0	0.0	
Non-MSA	3.9	4.9	6.0	6.0	6.9	6.1	5.2	5.3	4.6	5.0	4.7	4.9	5.3	4.5	3.6	1.9	2.7	2.1	1.9	-0.2	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	4.8	5.3	6.5	6.9	9.0	6.2	5.7	6.6	4.8	7.3	4.3	6.1	6.2	4.7	4.1	3.2	4.2	3.0	4.2	+1.1	
2.5–3.0	3.9	5.0	5.5	6.3	6.0	4.6	6.0	5.3	4.1	5.2	6.6	6.3	5.9	4.0	3.6	3.2	2.6	3.1	2.9	-0.2	
3.5–4.0	4.2	5.0	5.6	6.0	6.8	5.0	4.8	5.3	5.2	5.3	5.2	5.7	5.5	4.9	3.4	3.0	3.0	2.6	3.0	+0.4	
4.5–5.0	3.7	4.8	5.2	5.0	5.4	5.3	4.4	4.2	4.7	5.2	4.3	5.1	4.9	4.0	3.2	2.5	2.3	2.6	1.6	-0.9	
5.5–6.0 (High)	3.4	4.3	4.4	4.4	5.2	3.9	2.6	4.3	4.4	4.3	4.1	5.7	4.0	4.1	2.5	2.4	3.0	2.4	2.1	-0.3	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	4.0	4.5	5.5	6.3	6.7	6.2	5.5	5.7	5.6	5.6	5.6	5.8	6.1	5.6	4.4	3.4	3.1	3.1	2.6	-0.5	
African American	1.0	0.8	0.9	0.9	0.9	1.0	1.0	0.9	1.1	1.2	1.2	1.6	1.3	0.8	0.7	0.9	1.1	0.9	0.9	+0.1	
Hispanic	5.5	7.3	7.6	6.7	7.5	7.6	6.1	5.5	4.9	5.5	6.2	6.5	6.0	4.7	4.0	3.5	3.3	3.4	3.8	+0.5	

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

Notes. Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 39**  
**CRACK: Trends in Annual Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 12 months																							2012–2013 change
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	0.7	0.9	1.0	1.3	1.6	1.8	1.7	2.1	1.8	1.8	1.7	1.6	1.6	1.3	1.4	1.3	1.3	1.1	1.1	1.0	0.9	0.6	0.6	0.0
Gender:																								
Male	0.8	0.9	1.1	1.3	1.5	1.7	1.8	2.1	1.8	1.7	1.6	1.6	1.3	1.1	1.3	1.2	1.2	1.0	0.9	0.9	0.8	0.6	0.5	-0.1
Female	0.5	0.9	0.9	1.2	1.6	1.9	1.5	2.1	1.8	1.8	1.8	1.6	1.7	1.5	1.5	1.3	1.5	1.2	1.2	1.1	1.0	0.7	0.7	0.0
College Plans:																								
None or under 4 years	2.0	2.9	3.4	4.6	4.2	4.9	4.7	7.5	5.3	5.2	4.4	5.7	5.8	4.9	3.3	4.4	4.1	4.3	4.8	3.2	3.5	2.8	2.2	-0.6
Complete 4 years	0.4	0.6	0.6	0.8	1.3	1.3	1.3	1.5	1.4	1.4	1.4	1.2	1.1	1.0	1.2	1.0	1.1	0.8	0.8	0.8	0.7	0.5	0.5	0.0
Region:																								
Northeast	0.5	0.4	0.4	1.4	1.4	1.7	1.6	1.2	1.5	1.2	1.2	1.2	1.3	1.2	0.9	0.9	0.8	0.8	1.0	0.8	0.5	0.8	0.6	-0.2
Midwest	0.6	1.0	0.8	0.9	1.4	1.9	1.6	1.9	1.9	1.9	1.7	1.5	1.3	1.2	1.4	0.7	1.1	1.2	1.2	1.1	0.9	0.4	0.6	+0.2
South	0.7	1.0	1.2	1.6	1.4	1.7	1.4	2.5	1.9	1.4	2.0	1.7	1.8	1.3	1.5	1.8	1.5	1.2	0.7	0.9	0.9	0.7	0.7	0.0
West	0.8	1.3	1.4	1.3	2.3	2.1	2.3	2.6	1.8	2.9	1.7	2.0	1.8	1.8	1.6	1.3	1.8	1.2	1.7	1.2	1.3	0.6	0.6	0.0
Population Density:																								
Large MSA	0.5	0.8	0.7	1.3	1.5	1.8	1.5	1.6	1.2	1.6	1.4	1.5	1.2	1.5	1.5	1.3	1.1	1.4	0.8	1.0	1.0	0.8	0.7	-0.1
Other MSA	0.7	1.1	1.2	1.5	1.7	2.0	1.8	2.2	2.0	1.8	1.8	1.6	1.7	1.3	1.3	1.1	1.6	1.0	1.3	1.1	0.9	0.6	0.6	0.0
Non-MSA	0.8	0.8	0.9	1.0	1.4	1.7	1.7	2.6	2.1	2.0	1.8	1.8	1.7	1.2	1.4	1.6	1.2	1.0	0.9	0.8	0.9	0.4	0.6	+0.2
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	1.7	2.2	1.8	2.8	3.0	2.7	3.0	5.0	3.6	3.7	3.2	3.1	3.3	2.2	3.1	3.0	2.9	2.8	3.3	1.8	2.0	1.6	1.2	-0.4
2.5–3.0	0.7	0.8	1.0	1.4	1.2	2.1	2.0	2.2	2.0	2.1	1.8	2.1	1.7	1.7	1.8	1.5	1.4	1.6	0.9	1.1	1.4	0.8	0.7	-0.1
3.5–4.0	0.4	0.7	1.2	0.9	1.7	2.0	1.4	2.1	2.0	1.8	1.3	1.4	1.6	1.3	1.6	1.2	1.3	0.8	1.0	0.9	0.9	0.7	0.5	-0.2
4.5–5.0	0.4	0.6	0.5	1.1	1.3	1.5	1.5	1.6	1.0	1.0	1.5	1.2	1.0	1.1	0.9	0.9	0.9	0.7	0.6	0.8	0.6	0.2	0.5	+0.2
5.5–6.0 (High)	0.8	1.0	0.6	1.4	1.6	1.5	1.5	1.6	1.9	1.8	1.3	1.3	1.3	1.0	0.6	1.0	1.0	0.9	1.1	0.9	0.5	0.3	0.6	+0.3
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	0.7	0.8	1.0	1.4	1.7	1.7	1.7	1.8	1.7	1.7	1.5	1.5	1.3	1.2	1.1	1.0	1.0	0.8	0.8	0.7	0.6	0.4	-0.1
African American	—	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.5	0.6	0.7	0.8	0.8	0.6	0.6	0.5	0.7	0.6	0.5	0.5	0.7	+0.2
Hispanic	—	1.9	2.0	2.1	2.7	3.0	2.8	3.6	3.9	2.9	2.6	2.7	2.8	2.6	2.5	2.6	2.7	2.5	2.2	2.1	2.1	1.7	1.1	-0.6

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother’s education and father’s education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 40**  
**CRACK: Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months																						2012– 2013 change	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	0.9	0.9	1.1	1.4	1.8	2.1	2.2	2.5	2.4	2.2	1.8	2.3	1.6	1.7	1.7	1.3	1.3	1.3	1.2	1.0	0.9	0.8	0.8	+0.1
Gender:																								
Male	0.9	0.9	1.3	1.6	1.9	2.1	2.3	2.7	2.5	2.3	1.9	2.5	1.6	1.8	1.6	1.3	1.5	1.3	1.1	1.0	1.0	0.9	0.9	0.0
Female	0.8	0.9	0.7	1.0	1.6	2.1	2.2	2.2	2.3	2.1	1.7	2.2	1.6	1.5	1.7	1.2	1.1	1.2	1.2	0.9	0.8	0.6	0.7	+0.1
College Plans:																								
None or under 4 years	2.4	2.1	2.7	3.4	3.7	5.0	4.9	6.0	5.5	5.2	4.7	5.6	4.5	4.6	4.8	3.7	3.8	3.9	4.1	3.4	2.5	3.5	1.3	-2.2 ss
Complete 4 years	0.6	0.6	0.7	0.9	1.5	1.5	1.8	1.9	1.8	1.7	1.4	1.8	1.1	1.2	1.3	1.0	1.0	0.9	0.9	0.7	0.7	0.5	0.8	+0.3 ss
Region:																								
Northeast	0.5	0.4	1.1	1.4	1.1	1.4	1.5	2.6	2.5	1.7	1.0	1.4	1.3	1.4	1.8	0.9	1.1	1.0	1.2	1.0	1.1	0.5	0.6	+0.1
Midwest	0.9	0.9	0.8	1.0	1.5	2.2	2.1	2.1	2.1	1.8	1.8	2.2	1.4	1.5	1.4	1.3	1.1	1.1	1.4	0.9	0.6	0.7	0.7	0.0
South	1.0	0.8	0.9	1.3	1.9	2.0	2.0	1.9	2.0	1.9	1.7	1.7	1.7	1.4	1.3	1.2	1.4	1.1	0.8	0.9	0.8	0.6	0.8	+0.2
West	1.1	1.4	1.7	1.9	2.8	2.8	3.8	3.9	3.2	3.8	3.3	4.4	2.0	2.6	2.5	1.7	1.6	1.8	1.5	1.4	1.3	1.3	1.2	-0.2
Population Density:																								
Large MSA	0.9	0.8	0.7	0.9	1.9	1.7	2.3	2.2	2.2	2.4	1.9	2.2	1.2	1.5	1.8	1.3	1.3	1.1	0.8	1.0	0.9	1.0	0.7	-0.3
Other MSA	0.9	0.9	1.1	1.5	1.6	2.4	1.7	2.4	2.3	2.0	1.8	2.5	1.7	1.8	1.5	1.1	1.3	1.4	1.5	1.0	1.0	0.5	1.0	+0.4 s
Non-MSA	0.9	0.9	1.2	1.6	2.3	1.9	3.3	3.1	2.8	2.5	1.8	2.2	2.1	1.7	1.9	1.6	1.3	1.2	1.0	1.2	0.8	0.9	0.6	-0.2
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	1.3	1.7	1.8	1.9	3.0	3.9	3.4	4.5	3.4	4.8	3.0	3.9	2.9	3.5	2.6	3.9	3.8	3.3	2.5	2.5	1.6	1.9	1.5	-0.3
2.5–3.0	1.0	0.8	1.0	1.1	2.4	2.5	2.4	3.1	2.9	2.9	2.5	2.6	1.8	1.9	2.5	1.6	1.6	1.3	1.6	0.9	0.9	1.0	1.0	0.0
3.5–4.0	0.9	1.0	1.4	1.5	1.7	1.9	2.6	2.0	2.5	2.2	1.4	2.2	1.6	1.6	1.4	1.0	0.9	1.1	1.3	0.8	0.9	0.5	0.6	+0.1
4.5–5.0	0.7	0.6	0.7	1.0	1.3	1.4	1.8	2.0	1.9	1.1	1.6	1.4	1.3	1.4	1.3	0.8	0.9	1.0	0.7	0.8	0.6	0.6	0.7	+0.2
5.5–6.0 (High)	0.7	0.9	0.5	1.1	1.1	1.8	1.2	1.8	1.8	1.4	1.2	2.2	0.8	0.8	1.0	1.0	0.7	0.7	0.6	0.9	0.8	0.4	0.8	+0.5
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	0.9	0.9	1.1	1.5	1.9	2.2	2.3	2.4	2.2	1.8	2.0	2.0	1.6	1.5	1.4	1.2	1.1	1.0	0.9	0.7	0.6	0.5	0.0
African American	—	0.3	0.4	0.8	0.6	0.4	0.4	0.5	0.5	0.5	0.7	0.8	0.6	0.4	0.6	0.6	0.5	0.5	0.5	0.6	0.7	0.6	0.8	+0.2
Hispanic	—	1.5	1.7	1.9	2.5	3.7	3.7	4.1	4.4	4.0	3.7	3.6	3.5	3.1	3.6	3.1	2.3	2.4	2.5	2.0	1.9	2.0	1.8	-0.2

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 41**  
**CRACK: Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																				→ (Years cont.)
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	
<i>Approximate weighted N =</i>	—	—	—	—	—	—	—	—	—	—	—	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
Total	—	—	—	—	—	—	—	—	—	—	—	4.1	3.9	3.1	3.1	1.9	1.5	1.5	1.5	1.9	
Gender:																					
Male	—	—	—	—	—	—	—	—	—	—	—	4.2	4.6	4.0	4.3	2.3	1.8	1.7	1.9	2.4	
Female	—	—	—	—	—	—	—	—	—	—	—	3.6	3.0	2.0	1.8	1.4	1.0	1.0	1.1	1.3	
College Plans:																					
None or under 4 years	—	—	—	—	—	—	—	—	—	—	—	5.2	5.1	4.1	3.8	3.5	2.3	2.6	2.7	3.3	
Complete 4 years	—	—	—	—	—	—	—	—	—	—	—	2.8	2.7	2.3	2.7	1.2	1.1	1.0	1.2	1.4	
Region:																					
Northeast	—	—	—	—	—	—	—	—	—	—	—	6.0	4.0	2.3	3.3	2.0	1.3	1.3	1.2	1.5	
Midwest	—	—	—	—	—	—	—	—	—	—	—	3.1	3.5	2.4	2.2	1.6	1.5	1.4	1.3	2.2	
South	—	—	—	—	—	—	—	—	—	—	—	1.6	2.8	2.6	3.3	1.8	1.2	1.2	1.5	1.6	
West	—	—	—	—	—	—	—	—	—	—	—	7.5	6.1	5.6	3.8	2.7	1.8	2.1	2.1	2.3	
Population Density:																					
Large MSA	—	—	—	—	—	—	—	—	—	—	—	5.9	4.7	3.9	3.4	1.6	1.2	1.3	1.3	1.5	
Other MSA	—	—	—	—	—	—	—	—	—	—	—	3.5	3.5	3.2	3.3	2.0	1.7	1.6	1.8	2.1	
Non-MSA	—	—	—	—	—	—	—	—	—	—	—	3.5	3.7	2.0	2.2	2.0	1.2	1.3	1.4	1.9	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	—	—	—	—	—	—	—	—	—	—	—	1.2	3.6	3.3	3.1	2.2	1.6	1.9	2.6	2.7	
2.5–3.0	—	—	—	—	—	—	—	—	—	—	—	5.3	4.2	2.6	3.1	2.2	1.5	1.9	1.6	2.2	
3.5–4.0	—	—	—	—	—	—	—	—	—	—	—	4.0	4.0	3.4	2.8	1.8	1.7	1.3	1.5	1.8	
4.5–5.0	—	—	—	—	—	—	—	—	—	—	—	2.9	3.4	3.1	2.6	1.1	0.9	1.0	1.4	1.1	
5.5–6.0 (High)	—	—	—	—	—	—	—	—	—	—	—	3.7	2.4	2.1	3.7	1.8	1.1	0.8	1.0	1.8	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	—	—	—	—	—	—	—	—	—	—	—	—	3.8	3.4	3.1	2.1	1.6	1.3	1.3	1.6	
African American	—	—	—	—	—	—	—	—	—	—	—	—	1.9	2.5	2.0	1.3	1.0	0.6	0.6	0.9	
Hispanic	—	—	—	—	—	—	—	—	—	—	—	—	5.5	3.7	3.2	4.2	3.4	2.7	2.5	2.4	

(Table continued on next page.)

**TABLE 41 (cont.)**  
**CRACK: Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			2012– 2013 change	
	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>		
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	2.1	2.1	2.4	2.5	2.7	2.2	2.1	2.3	2.2	2.3	1.9	2.1	1.9	1.6	1.3	1.4	1.0	1.2	1.1	-0.2	
Gender:																					
Male	2.5	2.6	3.0	3.1	2.9	2.5	2.4	2.6	2.3	2.5	2.2	2.1	2.1	1.7	1.6	1.9	1.2	1.4	1.1	-0.3	
Female	1.5	1.6	1.8	2.0	2.2	1.7	1.8	1.8	1.9	1.9	1.6	1.9	1.7	1.3	1.0	0.9	0.8	0.9	0.9	0.0	
College Plans:																					
None or under 4 years	3.0	4.0	4.3	4.6	5.0	3.5	4.4	4.5	2.7	3.9	3.4	3.5	3.7	3.3	2.8	2.5	2.4	1.9	2.1	+0.2	
Complete 4 years	1.7	1.6	1.7	1.9	1.9	1.7	1.5	1.7	1.8	1.7	1.6	1.7	1.5	1.1	0.9	1.2	0.7	1.0	0.7	-0.3	
Region:																					
Northeast	1.6	2.1	2.6	3.0	2.4	1.8	2.0	2.0	2.0	1.7	1.5	2.5	2.1	1.8	0.6	1.4	1.2	0.8	1.1	+0.2	
Midwest	2.0	2.3	2.2	2.6	2.8	2.0	2.6	2.6	1.9	2.1	2.3	1.5	1.7	1.3	1.7	1.1	1.2	1.0	1.0	0.0	
South	1.7	1.7	1.8	2.0	2.3	1.8	1.2	1.9	2.0	2.2	1.8	2.1	2.2	1.6	1.2	1.4	0.8	1.1	0.8	-0.4	
West	3.5	2.6	3.4	3.2	3.4	3.2	3.0	2.8	3.0	3.3	2.3	2.2	1.6	1.7	1.6	1.8	1.2	1.9	1.6	-0.3	
Population Density:																					
Large MSA	2.0	2.1	2.2	2.5	2.0	1.8	1.5	1.6	1.8	2.0	1.7	2.6	1.9	1.3	1.1	1.4	1.0	1.2	0.9	-0.4	
Other MSA	2.1	1.9	2.3	2.4	2.5	2.1	2.2	2.4	2.3	2.2	1.8	1.7	1.9	1.6	1.3	1.6	1.1	1.3	1.2	-0.1	
Non-MSA	2.1	2.5	2.8	2.9	3.6	2.8	2.8	2.8	2.4	2.8	2.5	2.0	2.0	1.6	1.6	1.0	0.9	1.0	0.9	-0.1	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	3.4	3.4	3.6	3.9	3.2	2.8	3.8	4.8	2.5	3.3	2.3	3.6	3.6	2.1	2.2	2.5	2.3	1.9	1.5	-0.4	
2.5–3.0	2.3	2.4	2.5	2.8	2.8	2.1	2.6	2.2	1.6	2.9	2.4	2.4	2.2	1.4	0.9	1.7	0.8	1.3	1.0	-0.3	
3.5–4.0	1.7	2.2	2.0	2.4	3.0	2.2	1.8	2.3	2.3	1.9	2.0	2.0	1.9	1.6	1.4	1.4	1.2	1.0	1.2	+0.3	
4.5–5.0	1.9	1.6	2.5	2.1	2.2	1.8	1.9	1.7	2.2	1.8	1.5	1.8	1.7	1.4	1.4	1.0	0.8	1.1	0.8	-0.4	
5.5–6.0 (High)	1.5	1.6	1.8	2.1	1.6	2.2	1.2	1.5	1.9	1.7	1.5	1.2	1.0	1.3	0.6	0.8	0.8	1.1	0.8	-0.3	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	1.9	2.0	2.2	2.6	2.8	2.5	2.2	2.3	2.2	2.2	2.1	1.9	2.0	1.8	1.4	1.2	1.1	1.1	1.0	-0.1	
African American	1.0	0.7	0.5	0.3	0.4	0.5	0.5	0.7	1.2	1.3	0.9	1.0	1.0	0.9	0.9	0.7	0.7	0.7	0.9	+0.2	
Hispanic	3.1	4.1	4.2	3.9	3.5	3.4	3.1	3.1	2.9	3.0	3.1	3.1	2.7	2.0	1.6	1.8	1.9	1.7	1.7	0.0	

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of five forms in 1986; N is one fifth of N indicated in Table S3. Data based on two forms in 1987–1989; N is two fifths of N indicated in 1987–1988 and two sixths of N indicated in 1989 in Table S3. Data based on six forms beginning in 1990.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.



**TABLE 42**  
**OTHER COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 12 months																							2012– 2013 change	
<i>Approximate weighted N =</i>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>		
Total	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600		
	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	-0.2	
Gender:																									
Male	1.1	1.2	1.5	1.7	2.0	2.2	2.5	2.3	2.3	1.9	1.8	1.7	1.5	1.3	1.5	1.4	1.3	1.4	1.3	1.3	1.1	0.9	0.8	-0.1	
Female	0.8	1.2	1.2	1.8	2.2	2.6	1.9	2.4	2.2	1.8	2.0	1.9	1.6	1.8	1.8	1.7	1.6	1.4	1.3	1.4	0.9	1.0	0.8	-0.2	
College Plans:																									
None or under 4 years	2.7	4.2	4.1	5.6	5.9	6.6	6.0	7.7	7.1	6.1	5.3	6.4	5.0	5.4	4.5	5.7	5.7	5.5	5.6	4.7	4.6	3.8	3.0	-0.9	
Complete 4 years	0.6	0.7	0.9	1.2	1.6	1.8	1.7	1.8	1.7	1.4	1.5	1.3	1.2	1.1	1.4	1.2	1.1	1.1	1.0	1.1	0.8	0.7	0.6	-0.1	
Region:																									
Northeast	1.2	0.7	0.9	1.9	1.8	2.1	1.6	1.4	1.7	1.1	1.6	1.2	1.0	1.6	1.5	1.0	1.0	0.9	1.2	0.9	0.7	0.8	0.5	-0.3	
Midwest	0.6	1.0	0.7	0.9	2.0	2.4	2.0	1.9	2.2	2.3	1.6	1.8	1.7	1.1	1.3	1.1	1.3	1.5	1.5	1.6	1.0	0.5	0.6	+0.1	
South	1.0	1.5	1.6	2.0	2.0	2.3	2.1	3.1	2.6	1.7	2.4	2.1	1.9	1.7	1.9	2.3	1.8	1.8	1.0	1.3	1.1	1.2	0.8	-0.4	
West	1.3	1.5	2.1	2.0	2.7	3.1	2.9	2.5	2.2	2.5	1.7	1.9	1.6	1.8	1.8	1.5	1.5	1.3	1.8	1.4	1.6	1.2	1.1	-0.1	
Population Density:																									
Large MSA	0.9	1.1	1.0	1.6	2.0	2.5	1.7	1.8	1.8	1.6	1.6	1.4	1.2	1.7	1.6	1.5	1.5	1.5	0.9	1.1	1.2	1.1	0.8	-0.3	
Other MSA	0.9	1.4	1.8	2.1	2.1	2.6	2.2	2.5	2.3	1.8	2.2	1.8	1.6	1.6	1.7	1.6	1.5	1.4	1.6	1.5	1.2	1.0	0.9	-0.1	
Non-MSA	1.1	0.9	0.7	1.2	2.2	2.2	2.5	2.8	2.8	2.5	1.6	2.3	2.2	1.3	1.7	1.7	1.5	1.4	1.4	1.3	0.8	0.8	0.7	-0.1	
Parental Education: <sup>a</sup>																									
1.0–2.0 (Low)	2.1	2.7	2.2	3.1	4.3	3.2	3.5	4.7	5.1	4.2	3.7	2.8	2.9	3.1	2.9	3.6	3.1	3.0	3.4	2.8	2.1	2.1	1.8	-0.4	
2.5–3.0	1.2	1.1	1.5	2.0	2.0	2.6	2.4	2.5	2.8	2.1	1.9	2.3	1.8	1.9	2.2	1.7	1.6	1.8	1.4	1.9	1.6	1.2	1.0	-0.2	
3.5–4.0	0.6	1.0	1.5	1.9	2.2	2.8	2.1	2.4	2.3	1.9	1.8	1.9	1.6	1.5	2.0	1.7	1.4	1.7	1.2	1.3	1.3	0.9	0.8	-0.1	
4.5–5.0	0.6	0.8	0.8	1.1	1.6	2.4	1.9	1.8	1.3	1.4	1.6	1.6	1.1	1.3	1.2	1.2	1.0	0.8	0.6	1.0	0.7	0.4	0.5	0.0	
5.5–6.0 (High)	1.0	1.2	0.8	1.2	2.0	1.9	1.7	1.8	1.8	1.3	1.1	0.8	1.5	0.9	0.9	0.9	0.9	1.1	1.3	0.9	0.6	0.6	0.7	0.0	
Race/Ethnicity (2-year average): <sup>b</sup>																									
White	—	0.9	1.0	1.2	1.8	2.4	2.5	2.2	2.1	1.9	1.8	1.8	1.8	1.5	1.4	1.5	1.3	1.2	1.2	1.2	1.0	0.8	0.7	-0.1	
African American	—	0.6	0.5	0.6	0.5	0.4	0.3	0.5	0.7	0.6	0.5	0.5	0.6	0.8	0.9	0.7	0.6	0.6	0.8	0.7	0.4	0.4	0.6	+0.2	
Hispanic	—	2.6	3.3	4.0	4.3	4.1	3.3	4.0	4.9	3.9	3.2	3.1	2.7	2.8	2.9	2.8	3.1	2.8	2.2	2.2	2.4	2.2	1.5	-0.6	

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 43**  
**OTHER COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months																							2012– 2013 change
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	2.1	1.7	1.8	2.4	3.0	3.5	4.1	4.0	4.4	3.8	3.0	3.4	2.8	3.3	3.0	2.9	3.1	2.6	2.3	1.9	1.7	1.8	1.6	-0.2
Gender:																								
Male	2.0	1.9	2.2	2.7	3.1	3.7	4.1	4.1	4.6	4.2	3.3	3.6	2.9	3.6	3.3	3.0	3.2	2.7	2.5	2.3	2.1	2.1	2.2	+0.1
Female	2.1	1.5	1.4	2.1	2.9	3.3	4.0	3.8	4.1	3.4	2.6	3.3	2.7	3.0	2.7	2.8	2.9	2.4	2.1	1.3	1.2	1.5	1.0	-0.5
College Plans:																								
None or under 4 years	4.4	3.3	4.5	5.9	6.3	8.4	9.0	9.3	10.5	8.3	8.2	8.7	7.3	8.3	8.1	8.3	7.5	7.8	7.2	6.8	5.1	6.2	3.9	-2.4 s
Complete 4 years	1.6	1.3	1.3	1.7	2.5	2.7	3.2	3.0	3.4	3.0	2.1	2.6	2.1	2.6	2.3	2.2	2.5	1.8	1.8	1.3	1.3	1.4	1.3	0.0
Region:																								
Northeast	1.3	1.0	1.8	2.0	2.2	2.2	2.5	4.3	4.1	2.5	2.0	1.8	2.7	3.2	3.0	2.5	2.5	1.7	2.1	1.7	1.7	1.1	1.1	0.0
Midwest	1.6	1.3	1.3	1.8	2.5	3.4	3.4	3.1	3.9	4.0	3.0	3.2	2.3	3.0	3.0	2.8	3.3	2.2	2.1	1.5	1.2	1.2	0.8	-0.4
South	1.9	1.6	1.7	2.2	2.9	3.5	4.8	3.7	4.7	3.9	3.2	3.3	3.1	3.2	2.6	2.9	3.3	3.2	2.1	1.5	1.8	2.2	1.8	-0.4
West	3.4	3.1	3.2	4.3	4.8	5.2	5.3	5.2	4.6	4.6	3.9	5.5	3.2	4.1	3.6	3.5	3.0	2.7	3.1	3.0	2.1	2.5	2.4	-0.1
Population Density:																								
Large MSA	1.6	1.5	1.4	1.9	2.8	3.3	3.9	3.8	3.7	3.7	2.5	3.1	2.2	2.9	2.7	2.6	3.1	2.4	2.2	1.9	1.8	2.0	1.5	-0.5
Other MSA	2.6	2.0	2.0	2.7	3.1	3.9	3.8	4.0	4.5	3.7	3.2	3.7	2.8	3.4	3.1	3.0	2.9	2.9	2.6	2.0	1.7	1.6	1.9	+0.3
Non-MSA	1.4	1.4	1.9	2.5	3.1	3.2	4.9	4.2	4.8	4.0	3.2	3.3	4.1	3.6	3.3	3.4	3.3	2.0	1.9	1.7	1.5	2.0	0.9	-1.1
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	3.1	2.7	2.7	3.1	5.0	6.1	5.5	6.7	7.6	6.3	4.8	7.1	6.4	5.7	4.5	5.6	5.1	5.9	5.1	3.6	3.1	5.3	2.5	-2.8 s
2.5–3.0	2.2	1.6	2.0	2.6	3.6	3.6	4.3	4.5	5.1	4.4	4.5	3.9	3.5	3.7	4.0	3.7	3.3	3.1	2.7	2.3	1.9	2.2	2.3	+0.1
3.5–4.0	2.2	2.0	2.2	2.7	3.3	3.8	4.6	4.0	4.2	4.0	2.5	3.2	2.9	3.7	3.0	2.8	3.2	2.4	2.5	1.7	1.7	1.5	1.4	-0.1
4.5–5.0	1.6	1.3	1.4	1.8	2.2	3.0	3.3	3.0	3.5	3.0	2.2	2.0	1.8	2.8	2.4	1.8	2.4	1.9	1.4	1.6	1.3	1.3	1.1	-0.2
5.5–6.0 (High)	1.8	1.3	0.9	1.6	1.7	2.8	2.9	2.5	3.5	2.7	1.4	2.7	1.2	1.6	2.1	2.8	2.4	1.3	2.0	1.0	1.0	1.0	1.2	+0.2
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	1.9	1.8	1.9	2.6	3.2	3.7	4.1	4.3	4.1	3.4	3.3	3.4	3.4	3.3	3.2	3.2	2.8	2.3	1.9	1.6	1.5	1.4	-0.1
African American	—	0.5	0.5	0.9	0.8	0.6	0.6	0.9	0.8	0.5	0.5	0.7	0.7	0.7	0.8	0.9	0.6	0.7	0.7	0.6	0.6	1.2	1.4	+0.2
Hispanic	—	3.4	3.4	4.6	5.2	6.1	7.5	7.0	6.8	7.1	5.6	5.0	5.2	5.1	5.4	5.0	4.5	4.6	4.5	4.0	3.7	3.4	3.4	0.0

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 44**  
**OTHER COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			→	
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	(Years cont.)
<i>Approximate weighted N =</i>	—	—	—	—	—	—	—	—	—	—	—	—	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
Total	—	—	—	—	—	—	—	—	—	—	—	—	9.8	7.4	5.2	4.6	3.2	2.6	2.9	3.0	
Gender:																					
Male	—	—	—	—	—	—	—	—	—	—	—	—	10.1	8.0	6.5	5.8	3.7	3.1	3.7	3.7	
Female	—	—	—	—	—	—	—	—	—	—	—	—	9.1	6.2	4.0	3.2	2.4	2.0	2.0	2.3	
College Plans:																					
None or under 4 years	—	—	—	—	—	—	—	—	—	—	—	—	9.8	6.0	7.3	6.3	4.0	4.0	3.9	4.3	
Complete 4 years	—	—	—	—	—	—	—	—	—	—	—	—	8.3	6.7	4.2	3.7	2.8	2.0	2.5	2.5	
Region:																					
Northeast	—	—	—	—	—	—	—	—	—	—	—	—	12.9	7.0	4.9	5.6	3.4	2.8	2.3	2.8	
Midwest	—	—	—	—	—	—	—	—	—	—	—	—	8.2	5.6	4.8	3.7	2.9	2.2	2.3	3.5	
South	—	—	—	—	—	—	—	—	—	—	—	—	5.8	5.8	4.6	4.1	2.8	2.5	2.6	2.6	
West	—	—	—	—	—	—	—	—	—	—	—	—	15.3	13.4	7.5	6.1	3.9	3.1	4.6	3.5	
Population Density:																					
Large MSA	—	—	—	—	—	—	—	—	—	—	—	—	13.3	9.8	5.6	5.0	3.7	3.1	2.6	2.6	
Other MSA	—	—	—	—	—	—	—	—	—	—	—	—	8.9	7.8	5.4	4.7	3.3	2.5	3.6	3.5	
Non-MSA	—	—	—	—	—	—	—	—	—	—	—	—	8.0	4.5	4.4	4.1	2.5	2.3	2.0	2.6	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	—	—	—	—	—	—	—	—	—	—	—	—	5.3	4.9	3.3	3.4	3.5	3.7	3.9	2.7	
2.5–3.0	—	—	—	—	—	—	—	—	—	—	—	—	10.5	6.5	4.6	5.0	3.5	2.3	2.3	3.2	
3.5–4.0	—	—	—	—	—	—	—	—	—	—	—	—	10.5	7.2	5.1	4.7	3.2	2.6	3.3	3.4	
4.5–5.0	—	—	—	—	—	—	—	—	—	—	—	—	9.0	7.7	6.1	4.1	2.7	2.3	2.9	2.6	
5.5–6.0 (High)	—	—	—	—	—	—	—	—	—	—	—	—	9.7	9.0	6.5	5.4	2.4	2.0	1.7	3.1	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	—	—	—	—	—	—	—	—	—	—	—	—	—	9.3	7.0	5.3	4.2	2.9	2.6	2.9	
African American	—	—	—	—	—	—	—	—	—	—	—	—	—	2.8	1.4	0.7	1.0	1.0	0.7	0.8	
Hispanic	—	—	—	—	—	—	—	—	—	—	—	—	—	6.3	5.1	5.1	5.0	4.3	5.1	5.1	

(Table continued on next page.)

**TABLE 44 (cont.)**  
**OTHER COCAINE: Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			2012– 2013 change	
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	3.4	4.2	5.0	4.9	5.8	4.5	4.4	4.4	4.2	4.7	4.5	5.2	4.5	4.0	3.0	2.6	2.6	2.4	2.4	0.0	
Gender:																					
Male	4.0	4.9	5.7	5.6	7.1	5.5	4.9	5.0	5.4	5.8	5.4	5.7	4.8	4.8	3.6	3.6	3.4	2.8	3.1	+0.3	
Female	2.5	3.2	4.0	3.9	4.2	3.4	3.7	3.7	2.9	3.5	3.6	4.4	3.9	3.1	2.3	1.7	1.9	1.8	1.6	-0.1	
College Plans:																					
None or under 4 years	4.5	5.7	7.0	8.9	7.6	6.7	7.4	7.1	4.8	6.8	6.7	6.9	7.7	6.8	4.7	5.3	4.3	3.2	4.4	+1.1	
Complete 4 years	2.9	3.5	4.1	3.5	5.2	3.7	3.4	3.4	3.8	3.9	3.9	4.7	3.6	3.1	2.5	2.1	2.2	2.0	1.8	-0.2	
Region:																					
Northeast	4.2	5.2	5.9	4.7	4.1	3.7	4.4	4.3	5.3	4.4	4.3	6.2	5.3	4.4	2.7	3.3	2.9	1.8	2.4	+0.6	
Midwest	2.7	3.2	4.1	5.3	5.7	4.5	5.6	4.8	3.2	3.9	4.2	3.6	4.4	3.4	3.5	2.2	2.6	1.7	1.7	0.0	
South	3.1	4.2	4.6	4.9	6.6	4.0	3.9	4.4	4.1	4.9	4.7	5.8	4.5	4.2	2.7	1.9	2.4	2.5	2.1	-0.4	
West	4.0	4.5	6.2	4.4	6.1	5.9	3.5	3.9	4.7	5.8	4.7	5.1	3.8	4.1	2.9	3.6	2.9	3.3	3.5	+0.2	
Population Density:																					
Large MSA	3.7	3.9	4.2	4.8	4.8	3.7	4.1	3.5	3.0	3.9	4.6	7.2	4.3	4.1	2.8	2.8	2.6	2.6	2.1	-0.5	
Other MSA	3.3	4.4	5.2	4.9	6.0	4.5	4.3	4.7	5.3	5.4	4.7	4.4	4.6	3.9	3.0	3.0	2.7	2.6	2.7	+0.1	
Non-MSA	3.1	4.2	5.6	4.9	6.7	5.4	5.0	4.9	3.9	4.2	4.0	3.8	4.6	4.2	3.2	1.5	2.5	1.5	1.9	+0.4	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	2.9	5.2	6.4	5.5	7.4	5.4	3.7	5.1	4.1	6.3	4.1	4.6	5.2	3.0	3.8	3.0	3.2	3.5	3.3	-0.1	
2.5–3.0	3.4	3.8	4.9	5.3	5.0	3.8	5.6	4.7	3.4	3.6	5.5	5.5	5.0	3.8	3.2	2.6	2.6	2.4	3.1	+0.7	
3.5–4.0	3.6	4.6	4.9	5.3	6.9	4.7	4.7	4.9	4.6	5.1	4.7	5.2	4.5	4.6	2.5	2.9	2.9	2.4	2.7	+0.4	
4.5–5.0	3.2	3.9	4.4	4.2	5.5	4.5	3.9	3.4	4.3	5.1	4.2	4.6	4.3	3.5	2.9	2.1	2.2	1.9	1.4	-0.5	
5.5–6.0 (High)	2.7	3.8	4.8	3.5	3.6	4.2	2.2	3.9	3.8	3.7	3.7	5.9	3.7	4.2	2.6	2.6	2.5	2.2	1.9	-0.3	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	3.3	3.9	5.0	5.6	6.0	5.7	5.0	5.1	4.9	4.8	4.9	5.2	5.5	5.2	4.3	3.2	3.0	2.8	2.3	-0.5	
African American	0.8	0.7	0.7	0.6	0.8	1.0	0.9	0.8	1.0	1.1	1.2	1.4	1.2	0.7	0.6	0.7	0.7	0.8	1.0	+0.2	
Hispanic	4.0	5.6	6.9	6.0	5.8	6.6	5.8	4.7	3.9	4.8	5.8	5.7	4.8	3.7	3.1	2.5	2.5	3.1	3.6	+0.5	

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one form in 1987–1989;  $N$  is one fifth of  $N$  indicated in 1987–1988 and one sixth of  $N$  indicated in 1989 in Table S3. Data based on four of six forms beginning in 1990;  $N$  is four sixths of  $N$  indicated in Table S3.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 45**  
**HEROIN: Trends in Annual Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 12 months																						2012– 2013 change		
	1991	1992	1993	1994	1995 <sup>a</sup>	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
<i>Approximate weighted N =</i>	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600		
Total	0.7	0.7	0.7	1.2	1.4	1.6	1.3	1.3	1.4	1.1	1.0	0.9	0.9	1.0	0.8	0.8	0.8	0.9	0.7	0.8	0.7	0.5	0.5	0.0	
Gender:																									
Male	0.9	0.8	0.8	1.3	1.6	1.5	1.4	1.5	1.4	1.0	1.0	0.8	0.8	0.9	0.8	0.6	0.8	0.9	0.8	0.9	0.7	0.5	0.4	-0.1	
Female	0.5	0.7	0.5	0.9	1.2	1.5	1.1	1.1	1.3	1.2	1.0	1.0	0.9	1.0	0.8	0.9	0.9	0.7	0.7	0.7	0.7	0.5	0.5	0.0	
College Plans:																									
None or under 4 years	2.1	2.7	2.0	3.9	4.4	4.1	3.4	5.0	3.7	3.5	3.1	2.9	3.1	4.2	2.3	3.0	3.7	3.5	3.5	2.3	3.1	1.8	2.1	+0.2	
Complete 4 years	0.4	0.4	0.5	0.7	1.0	1.1	1.1	0.9	1.1	0.8	0.8	0.7	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.7	0.5	0.4	0.4	0.0	
Region:																									
Northeast	0.5	0.6	0.7	1.3	1.4	1.8	1.1	1.1	1.3	1.1	1.1	0.8	0.7	1.1	0.7	0.4	0.5	0.7	0.4	0.6	0.6	0.4	0.3	-0.1	
Midwest	0.4	0.8	0.5	1.1	1.4	1.6	1.4	1.3	1.6	1.4	1.0	1.0	1.0	0.8	0.5	0.7	0.8	1.0	0.7	0.8	0.8	0.4	0.4	0.0	
South	0.8	0.7	0.7	1.1	1.5	1.4	1.2	1.4	1.4	0.7	1.2	1.0	1.0	0.9	1.0	0.9	0.8	0.8	0.6	0.8	0.6	0.6	0.6	0.0	
West	1.0	0.7	1.1	1.1	1.2	1.6	1.4	1.3	1.2	1.4	0.7	1.0	0.9	1.2	0.8	0.9	1.0	0.9	1.2	0.9	0.8	0.5	0.6	+0.1	
Population Density:																									
Large MSA	0.5	0.7	0.7	1.2	1.2	1.4	1.0	1.0	1.3	1.0	0.9	0.7	0.8	1.2	0.6	0.7	0.5	1.2	0.6	0.7	0.6	0.6	0.5	-0.1	
Other MSA	0.7	0.8	0.9	1.2	1.5	1.7	1.3	1.3	1.4	1.1	1.0	1.0	0.9	1.0	0.8	0.9	0.9	0.8	0.8	0.9	0.8	0.5	0.6	0.0	
Non-MSA	0.8	0.7	0.4	1.0	1.5	1.5	1.5	1.6	1.5	1.0	1.1	1.1	1.2	0.6	1.0	0.8	1.0	0.6	0.7	0.7	0.7	0.3	0.4	+0.1	
Parental Education: <sup>b</sup>																									
1.0–2.0 (Low)	1.5	1.4	0.8	2.0	2.6	2.0	2.3	3.5	2.8	1.7	2.6	1.2	2.1	1.9	0.5	1.8	1.9	2.3	2.0	1.4	1.4	0.9	1.2	+0.3	
2.5–3.0	0.9	0.7	0.6	1.1	1.0	1.7	1.4	1.2	1.4	1.5	1.1	1.3	1.0	1.1	1.3	0.8	0.8	1.0	0.8	1.0	1.3	0.8	0.6	-0.2	
3.5–4.0	0.6	0.6	0.7	1.3	1.6	1.7	1.0	1.1	1.2	0.7	1.0	0.9	0.8	1.0	1.0	0.8	0.6	0.7	0.6	0.8	0.6	0.8	0.5	-0.3	
4.5–5.0	0.4	0.5	0.8	0.8	1.2	1.4	1.1	1.1	1.1	0.8	0.6	0.8	0.6	0.7	0.5	0.6	0.9	0.4	0.5	0.5	0.3	0.2	0.3	+0.1	
5.5–6.0 (High)	0.5	0.8	0.6	1.3	1.6	1.0	1.5	1.4	1.8	1.0	0.8	0.6	0.7	0.6	0.4	0.4	0.4	1.2	0.6	0.8	0.5	0.3	0.5	+0.2	
Race/Ethnicity (2-year average): <sup>c</sup>																									
White	—	0.6	0.6	0.8	1.2	1.6	1.6	1.3	1.2	1.2	1.0	1.0	0.9	0.9	0.8	0.7	0.7	0.8	0.7	0.6	0.6	0.5	0.4	-0.1	
African American	—	0.4	0.3	0.6	0.7	0.5	0.4	0.5	0.7	0.5	0.6	0.6	0.5	0.7	0.5	0.4	0.4	0.4	0.6	0.7	0.4	0.5	0.5	0.0	
Hispanic	—	1.4	1.4	1.5	1.8	2.1	1.7	1.7	2.2	2.0	1.4	1.2	1.4	1.7	1.5	1.1	1.2	1.3	1.2	1.3	1.4	1.0	0.7	-0.2	

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>In 1995, the heroin question was changed in half of the forms. Separate questions were asked for use with and without injection. In 1996, the remaining forms were changed. Data presented here represent the combined data from all forms.

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 46**  
**HEROIN: Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months																						2012– 2013 change	
	1991	1992	1993	1994	1995 <sup>a</sup>	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	<i>14,800</i>	<i>14,800</i>	<i>15,300</i>	<i>15,800</i>	<i>17,000</i>	<i>15,600</i>	<i>15,500</i>	<i>15,000</i>	<i>13,600</i>	<i>14,300</i>	<i>14,000</i>	<i>14,300</i>	<i>15,800</i>	<i>16,400</i>	<i>16,200</i>	<i>16,200</i>	<i>16,100</i>	<i>15,100</i>	<i>15,900</i>	<i>15,200</i>	<i>14,900</i>	<i>15,000</i>	<i>12,900</i>	
Total	0.5	0.6	0.7	0.9	1.1	1.2	1.4	1.4	1.4	1.4	0.9	1.1	0.7	0.9	0.9	0.9	0.8	0.8	0.9	0.8	0.8	0.6	0.6	0.0
Gender:																								
Male	0.7	0.8	0.9	1.0	1.3	1.5	1.6	1.7	1.7	1.5	1.0	1.3	0.8	1.0	1.1	0.9	0.9	1.0	1.1	0.9	0.9	0.6	0.9	+0.2
Female	0.4	0.4	0.4	0.8	0.8	0.9	1.3	1.1	1.2	1.2	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.6	0.6	0.7	0.6	0.6	0.4	-0.2
College Plans:																								
None or under 4 years	1.4	1.4	1.9	2.0	2.2	2.4	2.9	2.7	3.4	3.8	2.5	2.7	2.0	2.8	3.2	2.7	2.0	2.5	2.9	2.8	2.6	2.5	2.0	-0.6
Complete 4 years	0.3	0.4	0.4	0.7	0.9	1.0	1.2	1.2	1.1	1.0	0.7	0.8	0.5	0.6	0.6	0.6	0.7	0.6	0.7	0.6	0.6	0.4	0.5	+0.1
Region:																								
Northeast	0.4	0.6	0.6	0.6	0.9	0.9	1.3	1.8	1.9	1.5	1.0	0.9	0.6	1.1	1.3	0.9	1.1	0.7	0.9	0.8	0.9	0.6	0.5	0.0
Midwest	0.6	0.6	0.8	0.9	1.0	1.5	1.5	1.4	1.3	1.6	1.1	1.2	0.7	0.7	1.0	0.9	0.7	1.0	1.1	0.8	0.5	0.6	0.5	-0.1
South	0.6	0.5	0.6	1.0	1.3	1.4	1.5	1.3	1.4	1.5	0.9	0.8	0.9	1.0	0.8	0.9	0.8	0.9	0.8	0.8	0.9	0.6	0.5	-0.1
West	0.4	0.8	0.5	1.2	1.0	1.0	1.3	1.1	1.1	0.7	0.7	1.4	0.7	0.8	0.8	0.7	0.9	0.7	1.0	0.8	0.7	0.6	0.9	+0.3
Population Density:																								
Large MSA	0.6	0.6	0.7	0.8	1.0	1.1	1.6	1.2	1.2	1.8	0.9	0.9	0.6	0.9	0.8	0.7	0.9	0.6	0.8	0.8	0.7	0.7	0.5	-0.3
Other MSA	0.5	0.6	0.6	0.9	1.0	1.3	1.3	1.5	1.4	1.2	1.0	1.0	0.8	0.9	1.0	0.9	0.8	0.8	1.2	0.8	0.8	0.4	0.8	+0.4 s
Non-MSA	0.4	0.6	0.7	1.0	1.3	1.2	1.6	1.5	1.6	1.2	0.9	1.4	0.9	0.7	0.9	1.0	0.7	1.1	0.5	0.9	0.8	0.9	0.5	-0.4
Parental Education: <sup>b</sup>																								
1.0–2.0 (Low)	0.4	0.5	1.2	1.3	1.8	1.0	1.3	1.7	2.4	1.3	1.1	2.0	1.1	1.5	1.7	1.4	1.8	1.9	1.5	1.3	0.9	1.7	0.8	-0.9
2.5–3.0	0.8	0.7	0.7	0.8	1.0	1.2	1.3	1.2	1.5	1.7	1.3	0.8	0.8	1.0	1.2	0.9	0.8	0.5	1.1	0.6	1.0	0.8	0.9	+0.1
3.5–4.0	0.5	0.6	0.8	0.9	1.2	1.3	1.6	1.6	1.2	1.5	0.6	1.1	0.7	0.8	0.8	0.6	0.8	1.1	1.2	0.7	0.8	0.5	0.4	-0.1
4.5–5.0	0.4	0.5	0.3	0.9	0.9	1.1	1.5	1.3	1.4	1.3	0.8	0.7	0.6	0.7	0.8	0.7	0.7	0.6	0.6	0.9	0.5	0.5	0.5	+0.1
5.5–6.0 (High)	0.4	0.5	0.8	0.9	0.9	1.5	1.1	1.3	1.2	1.1	0.9	1.6	0.3	0.5	0.6	1.2	0.5	0.6	0.6	0.8	0.5	0.3	0.9	+0.6 s
Race/Ethnicity (2-year average): <sup>c</sup>																								
White	—	0.6	0.7	0.8	1.0	1.2	1.4	1.4	1.5	1.5	1.2	1.0	0.9	0.8	0.9	1.0	0.8	0.7	0.8	0.8	0.7	0.6	0.5	-0.1
African American	—	0.3	0.4	0.6	0.6	0.2	0.2	0.4	0.5	0.5	0.5	0.3	0.3	0.4	0.6	0.6	0.4	0.5	0.4	0.4	0.8	0.8	0.7	-0.1
Hispanic	—	0.7	0.7	0.7	1.0	1.0	1.3	1.6	1.7	1.4	1.4	1.1	1.1	1.2	1.2	1.2	1.0	1.0	1.1	1.0	0.9	1.0	1.0	0.0

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>In 1995, the heroin question was changed in half of the forms. Separate questions were asked for use with and without injection. In 1996, the remaining forms were changed. Data presented here represent the combined data from all forms.

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 47**  
**HEROIN: Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			→ (Years cont.)
<i>Approximate weighted N =</i>	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Total	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400
Gender:																				
Male	1.0	0.8	0.8	0.8	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.6	0.5	0.4	0.6	0.5	0.6
Female	1.2	1.0	1.2	1.1	0.6	0.6	0.6	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.9	0.6	0.6	0.8	0.7	0.8
College Plans:	0.8	0.5	0.4	0.6	0.3	0.4	0.3	0.4	0.4	0.3	0.3	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.4
None or under 4 years	—	0.9	1.1	1.0	0.7	0.6	0.5	0.7	0.9	0.6	0.7	0.8	0.5	0.8	0.9	0.6	0.5	0.9	1.0	1.1
Complete 4 years	—	0.6	0.5	0.6	0.3	0.3	0.5	0.4	0.3	0.4	0.5	0.4	0.4	0.3	0.5	0.4	0.4	0.5	0.4	0.5
Region:																				
Northeast	1.1	0.7	0.7	0.6	0.6	0.5	0.5	0.9	0.6	0.6	0.8	0.7	0.6	0.5	0.9	0.8	0.2	0.5	0.9	0.7
Midwest	1.3	1.0	1.0	0.8	0.5	0.7	0.6	0.5	0.4	0.6	0.6	0.4	0.6	0.3	0.6	0.3	0.8	0.6	0.5	0.9
South	0.9	0.7	0.9	1.1	0.6	0.3	0.5	0.5	0.7	0.5	0.6	0.5	0.4	0.5	0.6	0.5	0.4	0.6	0.4	0.6
West	0.7	0.6	0.5	0.8	0.2	0.4	0.5	0.3	0.5	0.4	0.3	0.5	0.5	0.7	0.7	0.3	0.3	0.8	0.5	0.4
Population Density:																				
Large MSA	1.3	1.0	0.5	0.7	0.4	0.3	0.3	0.7	0.6	0.6	0.7	0.7	0.3	0.4	0.5	0.4	0.4	0.4	0.6	0.4
Other MSA	0.9	1.0	0.8	0.8	0.6	0.5	0.5	0.4	0.4	0.4	0.7	0.4	0.6	0.5	0.7	0.5	0.4	0.7	0.5	0.8
Non-MSA	1.0	0.4	1.1	1.0	0.5	0.6	0.7	0.6	0.7	0.7	0.4	0.5	0.5	0.5	0.8	0.5	0.6	0.7	0.5	0.5
Parental Education: <sup>a</sup>																				
1.0–2.0 (Low)	1.2	0.8	0.8	0.8	0.6	0.6	0.4	0.4	0.5	0.6	0.8	0.9	0.5	0.5	0.9	0.8	0.5	0.7	0.3	0.9
2.5–3.0	0.8	0.9	0.8	0.9	0.5	0.6	0.6	0.7	0.6	0.5	0.5	0.4	0.4	0.7	0.7	0.4	0.4	0.6	0.4	0.8
3.5–4.0	0.6	0.8	0.9	0.7	0.4	0.4	0.5	0.3	0.5	0.5	0.5	0.5	0.6	0.4	0.6	0.4	0.4	0.6	0.6	0.4
4.5–5.0	1.2	1.4	0.6	0.9	0.6	0.4	0.3	0.6	0.4	0.4	0.7	0.3	0.3	0.3	0.6	0.4	0.6	0.7	0.7	0.3
5.5–6.0 (High)	1.2	0.6	1.1	1.0	0.8	0.4	0.7	1.1	0.8	0.5	0.6	0.5	0.7	0.4	0.4	0.5	0.5	0.3	0.4	0.9
Race/Ethnicity (2-year average): <sup>b</sup>																				
White	—	—	0.8	0.8	0.6	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.6	0.5	0.5	0.5	0.5
African American	—	—	0.6	0.6	0.5	0.5	0.6	0.7	0.6	0.4	0.5	0.5	0.5	0.7	0.6	0.3	0.2	0.5	0.4	0.3
Hispanic	—	—	1.2	2.0	1.7	0.4	0.3	0.4	0.6	1.1	1.0	0.9	0.9	0.5	0.5	0.6	0.6	0.9	0.7	0.5

(Table continued on next page.)

**TABLE 47 (cont.)**  
**HEROIN: Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			2012– 2013 change	
	1995 <sup>c</sup>	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
Approximate weighted N =	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	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	-0.1	
Gender:																					
Male	1.4	1.3	1.5	1.4	1.4	1.7	1.3	1.1	0.8	1.2	1.2	1.0	1.2	1.0	1.0	1.1	1.0	0.8	0.8	0.0	
Female	0.8	0.7	0.9	0.7	0.8	1.2	0.6	0.8	0.5	0.4	0.5	0.4	0.6	0.4	0.5	0.5	0.4	0.4	0.3	-0.1	
College Plans:																					
None or under 4 years	1.5	1.8	1.8	1.7	1.3	2.2	1.3	2.3	0.9	1.6	1.8	1.3	2.2	1.4	1.1	1.7	1.2	1.2	1.0	-0.2	
Complete 4 years	0.9	0.8	1.0	0.8	1.0	1.1	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.5	0.6	0.6	0.7	0.5	0.4	-0.1	
Region:																					
Northeast	1.0	1.6	1.7	1.3	1.2	1.0	1.2	1.2	0.8	0.9	1.0	1.1	1.1	0.7	0.8	1.3	0.7	0.8	0.6	-0.2	
Midwest	0.7	0.7	0.9	1.0	0.9	1.4	1.3	1.0	0.6	0.6	0.8	0.4	0.8	0.6	0.8	0.9	0.7	0.7	0.6	-0.1	
South	1.4	1.0	1.1	1.1	1.3	1.6	0.6	1.2	1.0	1.0	0.9	0.8	0.9	0.7	0.6	0.7	0.7	0.4	0.5	+0.1	
West	1.0	0.9	1.2	0.6	0.9	1.8	0.8	0.5	0.5	0.9	0.7	0.7	0.9	1.0	0.9	0.7	1.0	0.8	0.7	-0.1	
Population Density:																					
Large MSA	1.4	1.1	1.1	0.9	0.8	1.9	1.1	1.0	0.7	0.8	0.8	1.0	0.9	0.9	0.9	0.8	0.9	0.7	0.5	-0.2	
Other MSA	0.9	1.1	1.3	1.3	1.3	1.3	0.8	1.0	0.8	1.0	0.9	0.6	0.9	0.8	0.8	0.9	0.8	0.7	0.6	0.0	
Non-MSA	1.0	0.9	1.0	0.6	1.0	1.3	0.9	1.1	0.9	0.6	0.8	0.6	1.0	0.5	0.6	0.8	0.5	0.5	0.6	+0.1	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	1.8	1.1	2.1	1.2	2.3	2.3	1.3	2.1	1.1	1.4	1.0	1.2	1.7	1.3	1.5	1.1	1.0	1.3	1.0	-0.2	
2.5–3.0	1.1	0.9	1.0	1.0	0.9	1.6	0.5	1.0	0.7	0.9	1.2	0.9	1.0	0.5	0.8	1.0	0.5	0.8	0.6	-0.2	
3.5–4.0	0.9	1.1	1.2	1.2	1.0	1.3	1.0	0.9	0.8	0.7	0.8	0.7	0.8	0.9	0.6	0.9	0.8	0.4	0.4	0.0	
4.5–5.0	1.1	1.0	1.1	1.0	1.1	1.5	1.0	0.7	0.6	0.9	0.5	0.5	0.9	0.5	0.6	0.7	0.8	0.5	0.5	0.0	
5.5–6.0 (High)	1.0	0.8	1.1	0.7	1.1	1.1	0.8	1.0	0.6	0.6	0.8	0.7	0.5	0.7	0.5	0.6	0.7	0.4	0.6	+0.1	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	0.8	1.0	1.2	1.2	1.1	1.3	1.3	1.0	0.8	0.7	0.7	0.7	0.9	0.9	0.7	0.8	0.9	0.7	0.5	-0.2	
African American	0.4	0.5	0.5	0.4	0.3	0.5	0.4	0.5	0.7	0.7	0.8	0.7	0.5	0.4	0.4	0.6	0.7	0.8	0.8	0.0	
Hispanic	1.2	1.5	1.1	0.8	1.0	2.0	1.6	0.8	0.8	1.0	1.3	1.2	1.1	0.9	0.7	0.6	0.5	0.4	0.5	+0.1	

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>c</sup>In 1995, the heroin question was changed in half of the forms. Separate questions were asked for use with and without injection. In 1996, the remaining forms were changed. Data presented here represent the combined data from all forms.



**TABLE 48**  
**HEROIN WITH A NEEDLE: Trends in Annual Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 12 months																				2012– 2013 change
	1991– 1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	—	0.9	1.0	0.8	0.8	0.9	0.6	0.7	0.6	0.6	0.7	0.6	0.5	0.6	0.5	0.5	0.6	0.5	0.4	0.3	0.0
Gender:																					
Male	—	1.2	1.0	0.8	1.0	1.0	0.7	0.7	0.6	0.7	0.7	0.6	0.4	0.5	0.6	0.6	0.6	0.5	0.4	0.2	-0.2
Female	—	0.5	1.0	0.7	0.7	0.8	0.6	0.7	0.6	0.5	0.7	0.6	0.6	0.5	0.4	0.5	0.5	0.4	0.3	0.4	+0.1
College Plans:																					
None or under 4 years	—	3.2	3.1	2.0	3.1	2.2	2.1	2.2	1.9	2.0	3.1	1.5	2.1	2.7	2.1	2.6	1.3	2.1	1.3	1.8	+0.5
Complete 4 years	—	0.6	0.7	0.6	0.6	0.7	0.5	0.6	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.5	0.3	0.3	0.2	-0.1
Region:																					
Northeast	—	0.8	1.3	0.5	0.6	1.0	0.8	0.9	0.6	0.4	0.7	0.4	0.3	0.4	0.5	0.3	0.5	0.5	0.3	0.2	-0.2
Midwest	—	0.9	1.1	0.7	0.9	1.2	0.9	0.7	0.8	0.6	0.6	0.3	0.4	0.6	0.5	0.5	0.6	0.3	0.3	0.3	0.0
South	—	0.8	0.9	0.8	1.0	0.9	0.3	0.9	0.6	0.7	0.6	0.8	0.6	0.6	0.5	0.5	0.5	0.4	0.5	0.4	0.0
West	—	1.0	1.0	1.0	0.8	0.7	0.8	0.3	0.6	0.7	0.9	0.6	0.7	0.6	0.6	0.9	0.7	0.6	0.3	0.3	0.0
Population Density:																					
Large MSA	—	0.9	0.7	0.6	0.8	0.8	0.7	0.7	0.4	0.5	1.0	0.3	0.5	0.3	0.7	0.5	0.6	0.4	0.4	0.2	-0.2
Other MSA	—	0.9	1.2	0.8	0.8	0.9	0.6	0.6	0.7	0.6	0.7	0.7	0.6	0.6	0.5	0.6	0.7	0.5	0.4	0.4	0.0
Non-MSA	—	0.9	1.1	0.9	1.1	1.1	0.7	1.0	0.8	0.9	0.5	0.7	0.4	0.7	0.3	0.5	0.3	0.4	0.2	0.2	0.0
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	—	1.3	0.9	1.5	2.3	2.0	1.2	2.0	1.1	1.6	1.6	0.3	1.4	1.3	1.6	1.6	0.6	1.0	0.6	0.8	+0.2
2.5–3.0	—	0.5	1.2	0.8	0.8	0.9	0.5	0.7	0.9	0.6	0.8	1.0	0.5	0.6	0.5	0.5	0.7	0.9	0.5	0.4	-0.1
3.5–4.0	—	0.8	1.2	0.6	0.6	0.9	0.4	0.6	0.6	0.4	0.7	0.7	0.4	0.3	0.4	0.3	0.6	0.4	0.7	0.3	-0.3
4.5–5.0	—	1.0	0.8	0.7	0.7	0.5	0.4	0.5	0.5	0.5	0.6	0.3	0.4	0.6	0.3	0.4	0.4	0.2	0.1	0.2	+0.1
5.5–6.0 (High)	—	1.0	0.6	0.9	0.9	1.2	0.9	0.7	0.4	0.5	0.5	0.3	0.2	0.3	0.7	0.5	0.6	0.4	0.2	0.3	+0.1
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	—	—	1.1	1.0	0.7	0.8	0.7	0.6	0.7	0.6	0.6	0.5	0.4	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.0
African American	—	—	0.3	0.2	0.3	0.4	0.3	0.5	0.5	0.4	0.5	0.4	0.3	0.2	0.2	0.5	0.6	0.4	0.4	0.5	0.0
Hispanic	—	—	1.1	1.0	1.1	1.5	1.2	0.8	0.7	0.9	1.3	1.1	0.9	0.9	1.0	0.9	1.0	1.1	0.7	0.4	-0.3

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

Notes. Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1995;  $N$  is one half of  $N$  indicated in Table S1. Data based on all forms beginning in 1996.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 49**  
**HEROIN WITH A NEEDLE: Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months																				2012–2013 change
	1991–1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	—	0.6	0.7	0.7	0.8	0.6	0.5	0.4	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.5	+0.1
Gender:																					
Male	—	0.8	0.8	0.9	1.0	0.8	0.6	0.5	0.6	0.5	0.6	0.6	0.6	0.5	0.6	0.8	0.5	0.6	0.5	0.6	+0.2
Female	—	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.4	0.4	0.3	0.4	0.4	0.5	0.4	0.3	0.4	0.4	0.3	0.3	0.0
College Plans:																					
None or under 4 years	—	1.6	1.4	1.5	1.6	1.7	1.7	1.4	1.5	1.4	1.6	1.6	1.3	1.3	1.7	2.1	1.7	1.6	1.6	1.1	-0.5
Complete 4 years	—	0.4	0.5	0.6	0.6	0.5	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.4	+0.1
Region:																					
Northeast	—	0.5	0.3	0.6	0.8	0.7	0.5	0.5	0.4	0.4	0.5	0.6	0.6	0.6	0.4	0.8	0.5	0.4	0.3	0.4	+0.1
Midwest	—	0.6	1.0	0.8	0.9	0.7	0.5	0.5	0.6	0.5	0.4	0.5	0.5	0.4	0.5	0.7	0.5	0.4	0.5	0.5	0.0
South	—	0.6	0.7	0.8	0.8	0.6	0.6	0.3	0.5	0.5	0.5	0.4	0.6	0.4	0.6	0.4	0.5	0.7	0.3	0.4	+0.1
West	—	0.5	0.5	0.6	0.6	0.6	0.4	0.5	0.8	0.5	0.5	0.6	0.3	0.6	0.5	0.5	0.4	0.4	0.4	0.6	+0.1
Population Density:																					
Large MSA	—	0.5	0.5	0.6	0.7	0.6	0.6	0.4	0.5	0.4	0.5	0.4	0.4	0.5	0.4	0.5	0.5	0.4	0.4	0.3	-0.2
Other MSA	—	0.5	0.7	0.6	0.7	0.5	0.4	0.5	0.4	0.4	0.5	0.6	0.5	0.5	0.5	0.8	0.4	0.5	0.3	0.6	+0.3 s
Non-MSA	—	0.8	0.8	1.1	1.0	1.0	0.6	0.4	1.0	0.6	0.3	0.5	0.7	0.4	0.7	0.4	0.6	0.6	0.5	0.4	-0.1
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	—	1.6	0.6	0.7	1.3	1.2	1.0	0.5	1.2	0.8	1.0	1.4	1.0	1.3	1.7	1.0	0.9	0.6	1.2	0.4	-0.7
2.5–3.0	—	0.5	0.8	0.6	0.6	0.7	0.8	0.7	0.3	0.4	0.5	0.6	0.5	0.5	0.2	0.7	0.2	0.5	0.5	0.5	+0.1
3.5–4.0	—	0.7	0.7	0.9	0.9	0.6	0.5	0.2	0.6	0.5	0.4	0.4	0.4	0.4	0.5	0.8	0.4	0.5	0.3	0.3	+0.1
4.5–5.0	—	0.4	0.5	0.7	0.6	0.6	0.3	0.3	0.3	0.5	0.3	0.4	0.3	0.5	0.3	0.3	0.4	0.4	0.3	0.4	+0.1
5.5–6.0 (High)	—	0.3	0.6	0.7	0.8	0.6	0.3	0.5	1.1	0.2	0.3	0.3	1.0	0.2	0.3	0.4	0.7	0.2	0.3	0.7	+0.5 s
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	—	—	0.6	0.7	0.7	0.6	0.5	0.4	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.0
African American	—	—	0.1	0.1	0.3	0.3	0.3	0.3	0.2	0.1	0.2	0.5	0.4	0.2	0.4	0.4	0.4	0.6	0.5	0.4	-0.1
Hispanic	—	—	0.6	0.6	0.8	1.0	0.9	0.9	0.7	0.7	0.8	0.8	0.8	0.6	0.7	0.8	0.6	0.4	0.6	0.6	+0.1

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1995; *N* is one half of *N* indicated in Table S2. Data based on all forms beginning in 1996.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 50**  
**HEROIN WITH A NEEDLE: Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																				2012– 2013 change
	1975– 1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
Total	—	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.3	0.7	0.6	0.4	0.4	0.0
Gender:																					
Male	—	0.7	0.9	0.9	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.7	0.5	0.6	0.4	1.0	0.8	0.5	0.5	0.0
Female	—	0.3	0.1	0.2	0.3	0.2	0.2	0.1	0.2	0.3	0.1	0.3	0.3	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.0
College Plans:																					
None or under 4 years	—	0.9	1.2	0.9	0.8	0.5	1.0	0.7	0.9	0.4	1.0	0.9	1.0	1.0	1.0	0.6	1.6	1.3	1.1	0.7	-0.4
Complete 4 years	—	0.4	0.4	0.4	0.3	0.4	0.2	0.2	0.3	0.4	0.2	0.4	0.3	0.2	0.2	0.2	0.4	0.5	0.3	0.2	0.0
Region:																					
Northeast	—	0.4	0.6	0.6	0.7	0.3	0.2	0.7	0.6	0.6	0.6	0.6	0.8	0.7	0.3	0.3	0.6	0.8	0.6	0.3	-0.3
Midwest	—	0.5	0.4	0.8	0.4	0.5	0.4	0.2	0.6	0.3	0.2	0.7	0.1	0.1	0.3	0.3	0.8	0.4	0.6	0.3	-0.3
South	—	0.4	0.6	0.3	0.5	0.4	0.8	0.1	0.3	0.6	0.4	0.4	0.6	0.4	0.3	0.2	0.8	0.5	0.2	0.4	+0.2
West	—	0.8	0.5	0.5	0.1	0.3	0.1	0.4	0.2	0.2	0.5	0.3	0.3	0.2	0.5	0.3	0.4	1.0	0.4	0.5	+0.1
Population Density:																					
Large MSA	—	0.6	0.7	0.3	0.3	0.4	0.8	0.4	0.5	0.5	0.6	0.4	0.7	0.6	0.2	0.5	0.7	0.8	0.5	0.3	-0.2
Other MSA	—	0.4	0.5	0.6	0.5	0.3	0.3	0.3	0.3	0.4	0.4	0.6	0.4	0.2	0.5	0.2	0.6	0.7	0.4	0.4	0.0
Non-MSA	—	0.6	0.3	0.7	0.5	0.6	0.3	0.2	0.5	0.4	0.2	0.5	0.4	0.4	0.2	0.1	0.7	0.3	0.2	0.3	+0.1
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	—	0.7	0.9	1.8	0.8	1.5	1.2	0.7	0.8	0.5	0.2	0.8	1.0	1.0	0.9	0.8	1.4	1.4	0.4	0.8	+0.4
2.5–3.0	—	0.6	0.5	0.4	0.5	0.1	0.4	0.3	0.4	0.7	0.6	0.5	0.5	0.4	0.3	0.5	0.9	0.4	0.4	0.4	0.0
3.5–4.0	—	0.2	0.3	0.3	0.4	0.5	0.2	0.1	0.5	0.3	0.3	0.4	0.5	0.2	0.4	0.2	0.5	0.8	0.3	0.2	-0.1
4.5–5.0	—	0.5	0.7	0.6	0.4	0.3	0.4	0.4	0.2	0.4	0.4	0.3	0.2	0.2	0.3	0.1	0.5	0.4	0.5	0.3	-0.2
5.5–6.0 (High)	—	0.6	0.5	0.5	0.2	0.4	0.2	0.3	0.2	0.3	0.4	0.4	0.6	0.3	0.2	0.1	0.3	0.6	0.3	0.0	-0.3
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	—	—	0.4	0.5	0.5	0.4	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.5	0.3	-0.2
African American	—	—	0.2	0.5	0.4	0.2	0.5	0.4	0.2	0.4	0.5	0.6	0.7	0.4	0.3	0.3	0.7	0.9	0.5	0.5	-0.1
Hispanic	—	—	1.0	0.7	0.5	0.6	1.0	0.6	0.4	0.6	0.7	0.8	0.9	0.7	0.4	0.3	0.5	0.6	0.2	0.3	+0.1

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

Notes. Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on three of six forms;  $N$  is three sixths of  $N$  indicated in Table S3.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 51**  
**HEROIN WITHOUT A NEEDLE: Trends in Annual Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 12 months																			2012– 2013 change		
	1991– 1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		2013	
<i>Approximate weighted N =</i>	—	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600		
Total	—	0.8	1.0	0.8	0.8	0.9	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.4	0.5	0.4	0.3	0.3	+0.1	
Gender:																						
Male	—	1.0	0.9	0.9	0.9	0.8	0.5	0.6	0.6	0.6	0.4	0.4	0.5	0.4	0.6	0.4	0.5	0.4	0.2	0.3	+0.1	
Female	—	0.6	0.9	0.7	0.8	0.8	0.8	0.6	0.7	0.6	0.7	0.5	0.6	0.5	0.6	0.4	0.5	0.5	0.3	0.3	+0.1	
College Plans:																						
None or under 4 years	—	3.2	2.1	2.2	3.4	2.7	2.4	1.9	1.7	2.3	2.5	1.6	2.3	1.9	2.6	1.9	1.8	1.8	1.1	1.3	+0.1	
Complete 4 years	—	0.5	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.2	0.4	0.3	0.2	0.3	+0.1	
Region:																						
Northeast	—	0.9	1.1	0.8	0.7	0.7	0.6	0.7	0.3	0.5	0.6	0.5	0.2	0.2	0.4	0.3	0.4	0.3	0.1	0.3	+0.1	
Midwest	—	1.0	1.0	0.9	0.9	1.0	0.8	0.6	0.7	0.8	0.4	0.3	0.7	0.5	0.8	0.3	0.4	0.5	0.2	0.3	+0.1	
South	—	0.8	0.8	0.7	0.9	0.9	0.5	0.6	0.7	0.7	0.6	0.6	0.6	0.4	0.7	0.3	0.5	0.4	0.3	0.4	+0.1	
West	—	0.7	1.1	1.1	0.9	0.9	0.8	0.5	0.7	0.5	0.7	0.4	0.5	0.7	0.5	0.7	0.6	0.5	0.4	0.3	0.0	
Population Density:																						
Large MSA	—	0.9	1.0	0.6	0.5	0.8	0.7	0.5	0.6	0.6	0.7	0.4	0.4	0.3	0.8	0.3	0.4	0.3	0.3	0.3	0.0	
Other MSA	—	0.8	1.0	0.9	1.0	0.8	0.8	0.8	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.2	0.3	+0.1	
Non-MSA	—	0.9	0.9	1.0	1.0	1.1	0.5	0.4	0.8	0.7	0.3	0.6	0.7	0.7	0.4	0.3	0.5	0.4	0.2	0.3	+0.1	
Parental Education: <sup>a</sup>																						
1.0–2.0 (Low)	—	1.9	1.5	1.3	2.4	1.7	1.1	1.3	0.5	1.4	1.5	0.2	1.4	1.0	1.6	1.1	1.4	0.7	0.7	0.9	+0.2	
2.5–3.0	—	0.7	0.9	1.1	0.7	1.0	1.3	0.6	0.8	0.6	0.6	0.9	0.6	0.4	0.8	0.4	0.6	1.0	0.4	0.4	0.0	
3.5–4.0	—	0.5	1.2	0.5	0.8	0.6	0.5	0.6	0.6	0.7	0.6	0.5	0.6	0.3	0.4	0.4	0.4	0.4	0.3	0.2	-0.1	
4.5–5.0	—	0.8	0.8	0.8	0.6	0.8	0.5	0.5	0.6	0.4	0.4	0.3	0.4	0.7	0.3	0.2	0.2	0.2	0.1	0.1	0.0	
5.5–6.0 (High)	—	0.7	0.8	1.0	1.1	1.1	0.3	0.4	0.4	0.5	0.3	0.1	0.3	0.3	0.8	0.2	0.5	0.2	0.1	0.4	+0.3	
Race/Ethnicity (2-year average): <sup>b</sup>																						
White	—	—	1.0	1.0	0.8	0.8	0.8	0.7	0.6	0.6	0.5	0.4	0.5	0.5	0.5	0.4	0.3	0.4	0.3	0.2	-0.1	
African American	—	—	0.2	0.2	0.4	0.5	0.3	0.3	0.3	0.3	0.5	0.4	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.2	+0.1	
Hispanic	—	—	1.5	1.2	1.1	1.4	1.1	0.8	1.0	1.0	1.0	0.9	0.6	0.7	0.8	0.8	0.8	0.8	0.6	0.5	-0.1	

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1995;

N is one half of N indicated in Table S1. Data based on all forms beginning in 1996.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 52**  
**HEROIN WITHOUT A NEEDLE: Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months																				2012– 2013 change
	1991– 1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Approximate weighted N =	—	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
<b>Total</b>	—	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	-0.1
<b>Gender:</b>																					
Male	—	0.9	1.1	1.2	1.2	1.3	1.1	0.8	0.9	0.6	0.8	0.7	0.6	0.6	0.8	0.8	0.6	0.5	0.4	0.5	0.0
Female	—	0.7	0.7	1.0	0.8	1.0	1.0	0.6	0.6	0.4	0.5	0.6	0.6	0.5	0.4	0.4	0.5	0.4	0.4	0.3	-0.1
<b>College Plans:</b>																					
None or under 4 years	—	1.7	1.8	2.1	1.8	2.5	2.7	1.7	2.2	1.4	2.2	2.3	2.0	1.1	1.6	2.0	2.2	1.6	1.8	1.2	-0.6
Complete 4 years	—	0.6	0.7	1.0	0.9	0.8	0.8	0.5	0.6	0.4	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.0
<b>Region:</b>																					
Northeast	—	0.5	0.7	1.0	1.4	1.6	1.2	0.8	0.7	0.4	0.9	0.9	0.8	0.7	0.6	0.5	0.5	0.6	0.3	0.4	+0.1
Midwest	—	0.5	0.8	1.2	0.7	1.0	1.2	0.8	0.9	0.5	0.5	0.8	0.6	0.5	0.8	0.7	0.6	0.2	0.4	0.2	-0.2
South	—	1.1	1.1	1.2	1.0	1.0	1.3	0.7	0.5	0.7	0.7	0.6	0.6	0.6	0.6	0.4	0.5	0.6	0.5	0.3	-0.2
West	—	0.9	0.9	1.0	0.8	0.8	0.5	0.5	1.2	0.4	0.5	0.5	0.5	0.5	0.4	0.8	0.6	0.5	0.5	0.6	+0.1
<b>Population Density:</b>																					
Large MSA	—	0.9	0.9	1.3	0.8	0.9	1.5	0.8	0.6	0.4	0.6	0.7	0.5	0.7	0.5	0.4	0.6	0.5	0.5	0.3	-0.2
Other MSA	—	0.7	1.0	1.0	1.1	1.2	1.0	0.7	0.8	0.6	0.8	0.7	0.6	0.5	0.6	0.8	0.5	0.4	0.3	0.5	+0.2
Non-MSA	—	0.9	0.7	1.1	1.0	1.2	0.9	0.7	1.0	0.6	0.5	0.6	0.8	0.6	0.8	0.3	0.6	0.5	0.6	0.3	-0.4
<b>Parental Education: <sup>a</sup></b>																					
1.0–2.0 (Low)	—	1.7	0.8	0.9	1.2	1.8	1.1	0.9	1.5	0.9	1.0	1.1	1.2	0.9	1.1	1.1	0.9	0.7	1.3	0.5	-0.7
2.5–3.0	—	0.6	0.7	1.0	1.0	1.1	1.1	0.9	0.7	0.7	0.7	0.9	0.6	0.6	0.4	0.6	0.5	0.7	0.6	0.7	+0.2
3.5–4.0	—	0.9	1.0	1.3	1.2	0.9	1.3	0.5	0.8	0.4	0.7	0.6	0.5	0.6	0.8	0.7	0.5	0.4	0.4	0.1	-0.3 s
4.5–5.0	—	0.5	0.8	1.1	1.0	1.0	1.0	0.6	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.3	0.6	0.3	0.3	0.2	-0.1
5.5–6.0 (High)	—	0.9	1.1	1.0	0.7	1.1	1.1	0.6	1.1	0.1	0.4	0.5	0.4	0.3	0.4	0.5	0.5	0.4	0.1	0.7	+0.5 s
<b>Race/Ethnicity (2-year average): <sup>b</sup></b>																					
White	—	—	0.9	1.0	1.1	1.1	1.2	1.0	0.8	0.7	0.6	0.7	0.7	0.5	0.5	0.6	0.6	0.5	0.4	0.3	-0.1
African American	—	—	0.1	0.1	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.2	0.5	0.6	0.5	-0.1
Hispanic	—	—	0.8	1.1	1.4	1.3	0.9	0.8	0.8	0.8	0.9	1.0	0.9	0.8	0.7	0.7	0.7	0.7	0.6	0.5	-0.1

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1995; N is one half of N indicated in Table S2. Data based on all forms beginning in 1996.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 53**  
**HEROIN WITHOUT A NEEDLE: Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			2012– 2013 change	
	1975– 1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		2013
<i>Approximate weighted N =</i>	—	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
Total	—	1.0	1.0	1.2	0.8	1.0	1.6	0.8	0.8	0.8	0.7	0.8	0.6	1.0	0.5	0.6	0.8	0.7	0.4	0.4	+0.1
Gender:																					
Male	—	1.4	1.3	1.4	1.0	1.3	1.8	1.3	0.9	0.9	0.9	1.1	0.8	1.2	0.7	0.8	1.1	0.9	0.5	0.5	0.0
Female	—	0.7	0.7	0.9	0.7	0.8	1.5	0.4	0.7	0.7	0.4	0.5	0.3	0.6	0.3	0.4	0.4	0.5	0.2	0.3	+0.1
College Plans:																					
None or under 4 years	—	1.4	1.7	1.6	1.3	1.5	2.7	1.3	2.2	0.8	1.5	1.7	1.2	2.6	1.0	0.7	1.8	1.1	0.8	0.8	0.0
Complete 4 years	—	0.9	0.8	1.0	0.6	1.0	1.3	0.7	0.4	0.7	0.4	0.6	0.4	0.7	0.3	0.5	0.4	0.6	0.3	0.4	+0.1
Region:																					
Northeast	—	0.9	1.9	1.9	1.1	1.3	0.9	1.3	1.1	0.6	1.1	1.1	1.0	1.1	0.7	0.7	1.3	0.8	0.2	0.4	+0.2
Midwest	—	0.7	0.5	1.0	0.6	0.7	1.6	1.1	0.9	0.7	0.4	0.7	0.2	0.9	0.3	0.7	0.7	0.9	0.3	0.3	-0.1
South	—	1.4	0.9	1.1	1.1	1.2	1.8	0.3	0.9	1.2	0.5	0.7	0.7	1.0	0.3	0.6	0.7	0.4	0.1	0.4	+0.2
West	—	0.8	0.7	0.6	0.3	1.0	2.0	0.9	0.4	0.3	1.0	0.7	0.6	0.9	0.8	0.7	0.6	0.9	0.8	0.8	-0.1
Population Density:																					
Large MSA	—	1.3	1.1	1.2	0.9	0.9	2.5	1.0	0.6	0.8	0.8	0.7	0.8	0.9	0.5	0.7	1.1	0.8	0.2	0.2	0.0
Other MSA	—	0.8	1.2	1.1	0.9	1.2	1.2	0.8	1.1	0.7	0.9	0.7	0.4	0.9	0.6	0.6	0.8	0.7	0.4	0.5	+0.1
Non-MSA	—	1.0	0.4	1.2	0.4	0.8	1.4	0.7	0.6	1.0	0.2	1.0	0.5	1.2	0.3	0.5	0.5	0.4	0.5	0.6	+0.1
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	—	1.0	0.8	1.7	0.5	2.0	2.7	1.5	1.8	1.0	1.1	1.1	1.2	2.2	0.7	1.1	0.8	1.0	0.1	1.0	+0.9
2.5–3.0	—	1.1	0.6	0.8	1.1	1.1	1.8	0.5	0.9	0.9	0.8	1.0	0.5	0.9	0.5	0.7	0.9	0.4	0.5	0.7	+0.2
3.5–4.0	—	0.9	1.1	1.3	0.9	0.8	1.7	0.8	1.0	0.7	0.6	0.9	0.5	0.8	0.3	0.9	1.1	1.0	0.2	0.3	0.0
4.5–5.0	—	1.2	1.2	1.2	0.8	1.1	1.6	1.1	0.2	0.8	0.7	0.5	0.4	0.8	0.6	0.3	0.5	0.7	0.5	0.3	-0.2
5.5–6.0 (High)	—	0.6	1.0	1.0	0.5	1.0	0.6	0.8	0.8	0.7	0.3	0.5	0.7	0.7	0.6	0.2	0.5	0.4	0.2	0.3	+0.1
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	—	—	1.1	1.3	1.2	1.1	1.4	1.3	1.0	0.8	0.7	0.6	0.6	0.8	0.8	0.6	0.7	0.8	0.6	0.3	-0.2
African American	—	—	0.2	0.3	0.3	0.1	0.4	0.4	0.4	0.6	0.7	0.5	0.4	0.4	0.4	0.3	0.7	0.8	0.4	0.3	-0.1
Hispanic	—	—	0.9	0.6	0.4	0.6	1.8	1.3	0.5	0.7	0.7	0.9	1.0	1.1	0.7	0.4	0.6	0.7	0.3	0.3	+0.1

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on three of six forms;  $N$  is three sixths of  $N$  indicated in Table S3.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 54**  
**NARCOTICS OTHER THAN HEROIN: <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																				→ (Years cont.)
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	
<i>Approximate weighted N =</i>	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
Total	5.7	5.7	6.4	6.0	6.2	6.3	5.9	5.3	5.1	5.2	5.9	5.2	5.3	4.6	4.4	4.5	3.5	3.3	3.6	3.8	
Gender:																					
Male	6.6	6.8	7.3	6.9	7.3	7.1	6.5	6.0	6.0	6.2	6.8	5.9	5.6	5.1	4.9	5.0	3.9	3.3	3.6	4.3	
Female	4.8	4.7	5.4	5.1	5.1	5.4	5.3	4.6	4.2	4.2	5.1	4.6	4.9	4.1	3.8	3.9	3.1	3.3	3.3	3.4	
College Plans:																					
None or under 4 years	—	6.8	8.0	6.8	7.3	7.4	7.2	6.1	6.1	6.1	6.6	6.7	6.1	4.8	5.3	5.7	3.8	4.3	4.2	4.9	
Complete 4 years	—	4.6	4.7	4.9	5.0	5.1	4.8	4.6	4.3	4.3	5.4	4.3	4.8	4.6	3.9	4.0	3.5	3.0	3.3	3.5	
Region:																					
Northeast	6.1	6.5	6.6	6.8	7.0	5.7	7.2	5.6	5.6	6.7	7.3	5.7	6.0	3.7	4.7	4.1	3.2	3.7	4.6	3.5	
Midwest	6.2	6.2	7.5	6.7	6.1	7.6	6.2	5.5	5.3	4.8	6.3	5.8	5.2	4.4	5.7	4.6	4.2	3.6	3.2	4.7	
South	4.9	5.0	5.2	4.5	5.2	5.0	4.1	4.5	4.4	4.5	3.8	4.2	4.3	4.7	3.2	4.1	2.7	2.7	3.2	3.8	
West	5.4	5.0	6.0	6.7	7.1	6.8	7.2	6.2	5.2	5.3	7.1	5.4	6.1	5.7	4.9	5.3	4.4	3.5	4.0	3.1	
Population Density:																					
Large MSA	7.3	6.7	6.7	6.9	7.3	6.9	6.9	5.2	6.0	5.2	6.0	4.8	5.2	4.0	4.1	3.8	3.3	3.5	3.1	4.1	
Other MSA	5.5	6.1	6.3	5.9	6.3	7.0	6.3	5.7	5.3	5.1	6.4	5.6	5.3	5.2	4.9	4.6	3.9	3.1	3.7	3.7	
Non-MSA	4.8	4.6	6.2	5.4	5.3	4.8	4.8	4.9	4.1	5.2	5.2	5.0	5.2	4.4	3.8	4.8	3.1	3.6	3.7	3.6	
Parental Education: <sup>b</sup>																					
1.0–2.0 (Low)	5.4	5.0	5.1	5.0	5.2	5.2	4.8	4.8	4.8	4.7	4.5	4.7	4.1	3.9	3.6	3.8	3.8	3.5	3.8	3.0	
2.5–3.0	5.1	5.9	6.4	6.2	5.9	5.8	5.6	4.9	5.0	5.2	5.5	5.0	4.4	4.3	4.0	4.1	3.2	3.5	2.9	3.8	
3.5–4.0	4.2	6.3	6.7	6.0	6.3	6.9	6.6	5.2	4.5	5.1	6.5	6.0	5.6	4.3	4.6	4.6	3.7	3.2	3.7	3.4	
4.5–5.0	6.4	6.3	6.6	6.4	6.7	7.0	6.3	6.4	6.0	5.6	6.4	4.8	5.4	5.4	4.2	4.7	3.6	3.4	3.7	4.3	
5.5–6.0 (High)	6.5	6.5	7.9	6.1	7.8	6.8	6.8	7.1	5.3	4.9	6.8	5.4	7.8	5.6	6.4	5.7	4.1	3.2	4.5	4.8	
Race/Ethnicity (2-year average): <sup>c</sup>																					
White	—	—	6.6	6.7	6.6	6.8	6.7	6.2	5.8	5.7	6.3	6.3	6.0	5.8	5.3	5.2	4.7	4.1	4.1	4.3	
African American	—	—	2.2	2.0	1.8	1.7	1.9	1.8	1.7	1.6	1.6	1.7	1.6	1.5	1.5	1.4	1.1	0.9	1.0	1.5	
Hispanic	—	—	3.8	3.5	3.5	3.7	4.3	4.1	4.0	4.2	3.6	3.0	2.4	2.2	2.5	2.4	2.3	2.1	2.3	2.2	

(Table continued on next page.)

**TABLE 54 (cont.)**  
**NARCOTICS OTHER THAN HEROIN: <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			2012– 2013 change
	1995	1996	1997	1998	1999	2000	2001	2002 <sup>d</sup>	2003 <sup>d</sup>	2004	2005	2006	2007 <sup>e</sup>	2008	2009	2010	2011	2012	2013 <sup>g</sup>	
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
Total	4.7	5.4	6.2	6.3	6.7	7.0	6.7†	9.4	9.3	9.5	9.0	9.0	9.2	9.1	9.2	8.7	8.7	7.9	7.1	-0.8
Gender:																				
Male	5.6	6.4	7.1	7.4	8.2	8.0	8.0†	11.6	10.7	10.9	10.7	10.3	10.9	10.6	10.7	9.9	9.6	9.3	8.4	-0.9
Female	3.8	4.4	5.4	5.1	5.2	5.9	5.6†	7.4	7.8	8.1	7.4	7.8	7.6	7.9	7.9	7.4	7.8	6.5	5.6	-0.9
College Plans:																				
None or under 4 years	5.6	7.0	8.2	8.4	7.0	7.8	7.5†	12.4	12.3	12.4	12.2	12.4	12.9	13.1	11.0	12.3	13.2	9.7	10.1	+0.4
Complete 4 years	4.4	4.9	5.7	5.5	6.6	6.6	6.4†	8.8	8.4	8.7	8.3	8.1	8.3	8.3	8.8	7.8	7.8	7.4	6.3	-1.0 s
Region:																				
Northeast	4.3	6.1	7.8	6.5	6.2	6.7	7.2†	10.6	9.3	9.9	8.3	10.1	9.3	9.7	9.3	9.2	8.3	6.3	7.1	+0.8
Midwest	5.2	6.0	6.1	6.5	7.5	7.2	7.8†	8.8	9.1	8.7	10.7	9.9	10.5	10.0	11.6	9.0	9.7	9.1	6.8	-2.2 s
South	4.5	5.1	6.1	6.5	7.5	6.6	5.7†	9.3	8.0	9.1	8.6	7.9	8.3	8.3	8.0	8.4	7.3	6.1	7.1	+0.9
West	4.7	4.1	4.7	5.2	4.7	7.5	6.5†	9.5	11.4	11.1	8.3	8.9	9.2	9.0	8.2	8.4	10.2	10.0	7.4	-2.6 s
Population Density:																				
Large MSA	4.8	4.6	4.6	5.2	5.4	7.0	8.4†	8.9	7.4	8.1	8.4	8.1	7.9	7.9	7.9	8.8	7.6	8.4	6.4	-2.0 s
Other MSA	4.7	5.4	7.2	6.8	7.4	7.2	5.6†	10.3	10.3	10.7	9.3	9.0	9.3	9.0	9.4	9.0	9.0	7.4	7.9	+0.5
Non-MSA	4.7	6.0	6.0	6.5	6.8	6.6	6.9†	8.5	9.7	8.9	9.1	10.4	10.7	10.7	10.6	7.7	9.6	8.3	6.1	-2.2 s
Parental Education: <sup>b</sup>																				
1.0–2.0 (Low)	4.0	4.5	4.7	4.7	4.6	4.6	5.1†	6.2	7.9	6.8	5.2	6.1	7.1	7.1	6.1	5.2	6.6	7.2	5.5	-1.8
2.5–3.0	4.2	5.6	5.3	5.9	5.9	6.4	6.4†	8.9	9.3	8.8	9.5	9.5	8.8	9.2	9.9	9.4	8.5	9.0	7.6	-1.4
3.5–4.0	4.4	5.5	6.5	6.8	7.2	7.3	7.1†	10.4	9.8	10.8	10.5	10.3	9.5	9.9	9.9	10.0	10.1	8.4	8.3	-0.1
4.5–5.0	5.5	5.4	6.8	6.2	7.4	7.9	7.0†	10.3	9.5	10.5	9.3	9.1	9.9	9.0	9.9	8.1	8.1	8.0	6.6	-1.4
5.5–6.0 (High)	5.5	5.6	7.6	6.6	7.4	7.5	7.0†	8.7	8.8	8.8	7.6	8.0	9.5	9.7	8.2	8.3	9.2	6.0	6.2	+0.2
Race/Ethnicity (2-year average): <sup>c</sup>																				
White	5.0	5.9	7.1	7.6	7.7	8.3	8.5	10.3†	10.2 <sup>f</sup>	11.2	11.2	11.2	11.5	11.7	11.7	11.1	10.6	10.0	8.5	-1.5 s
African American	1.4	1.2	1.8	2.4	2.0	1.7	1.8	1.9†	2.1 <sup>f</sup>	2.7	2.5	2.4	2.6	2.7	2.8	4.0	4.1	3.4	4.0	+0.6
Hispanic	2.5	3.7	3.1	2.8	3.6	4.6	4.5	4.3†	5.2 <sup>f</sup>	5.5	5.3	5.0	4.5	4.2	4.7	5.1	5.4	5.5	5.7	+0.2

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

Notes: ' † ' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

See appendix B for details on how race/ethnicity is defined.

<sup>d</sup>In 2002 the question text was changed in half of the questionnaire forms. In the list of examples of narcotics other than heroin, Talwin, laudanum, and paregoric were replaced with Vicodin, OxyContin, and Percocet. The 2002 data presented here are based on the changed forms only; N is one half of N indicated. In 2003 the remaining forms were changed to the new wording. Beginning in 2003, the data are based on all forms.

<sup>e</sup>In 2007, in the list of narcotics other than heroin, Dilaudid was replaced with Ultram.

<sup>f</sup>The 2003 data comprise half of the 2002 sample data double-weighted and all of the 2003 sample data.

<sup>g</sup>In 2013 the list of examples was changed on one form: MS Contin, Roxycodone, Hydrocodone (Lortab, Lorcet, Norco), Suboxone, Tylox, and Tramadol were added to the list. An examination of the data did not show any effect from the wording change.



**TABLE 55**  
**OXYCONTIN: <sup>a</sup> Trends in Annual Prevalence of Use**  
**by Subgroups in Grade 8**

	Percentage who used in last 12 months													2012– 2013 change
	1991– 2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Approximate weighted N =	—	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	—	1.3	1.7	1.7	1.8	2.6	1.8	2.1	2.0	2.1	1.8	1.6	2.0	+0.4
Gender:														
Male	—	1.9	1.6	1.8	1.9	2.8	1.7	2.3	2.7	2.1	1.7	1.8	1.8	-0.1
Female	—	0.9	1.7	1.6	1.7	2.2	2.0	1.8	1.4	2.2	1.8	1.2	2.2	+1.0 s
College Plans:														
None or under 4 years	—	4.3	7.5	6.9	6.8	8.8	5.1	6.1	8.4	6.4	7.7	8.2	7.6	-0.6
Complete 4 years	—	1.0	1.1	1.2	1.2	1.9	1.5	1.8	1.6	1.8	1.3	1.1	1.6	+0.5
Region:														
Northeast	—	1.0	1.2	1.1	1.7	1.6	1.1	0.8	1.2	1.6	1.3	0.8	3.0	+2.2 s
Midwest	—	1.7	1.7	1.3	2.4	3.2	2.0	1.4	2.2	2.2	1.9	0.9	1.0	+0.1
South	—	1.5	2.1	2.2	2.0	2.4	2.0	2.9	2.1	2.5	1.8	2.6	1.9	-0.7
West	—	0.9	1.3	1.8	1.0	3.1	1.6	2.3	2.2	1.8	2.2	1.0	2.4	+1.5
Population Density:														
Large MSA	—	1.2	1.1	0.9	1.1	1.3	0.9	1.7	0.7	1.3	0.8	1.8	1.4	-0.4
Other MSA	—	1.4	1.7	2.6	2.3	3.1	2.2	2.2	2.3	2.3	2.7	1.3	2.0	+0.7
Non-MSA	—	1.5	2.5	1.1	1.8	3.2	2.3	2.6	2.8	2.9	1.5	1.7	2.7	+1.0
Parental Education: <sup>b</sup>														
1.0–2.0 (Low)	—	2.9	4.0	3.5	3.7	3.6	2.0	4.0	6.1	3.0	3.8	1.4	1.9	+0.5
2.5–3.0	—	2.0	2.3	2.1	2.9	3.4	2.2	2.3	2.1	2.7	2.6	2.7	1.7	-1.0
3.5–4.0	—	1.0	1.9	2.2	2.5	2.4	2.2	2.3	1.7	2.5	2.4	1.2	3.0	+1.8 s
4.5–5.0	—	0.9	0.7	1.3	0.7	2.0	1.6	1.7	1.7	1.3	1.1	1.2	1.9	+0.7
5.5–6.0 (High)	—	1.3	1.6	0.7	0.8	2.2	0.8	1.7	1.0	1.1	0.5	1.4	1.4	0.0
Race/Ethnicity (2-year average): <sup>c</sup>														
White	—	—	1.6	1.7	1.7	2.3	2.5	2.3	2.2	2.1	1.9	1.5	1.3	-0.2
African American	—	—	0.9	0.6	1.0	1.4	1.2	1.4	1.6	1.5	1.3	1.5	1.8	+0.3
Hispanic	—	—	1.3	2.8	2.6	2.4	2.3	1.5	1.8	2.2	2.6	2.1	1.9	-0.2

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

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

Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in Table S1.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 56**  
**OXYCONTIN:<sup>a</sup> Trends in Annual Prevalence of Use**  
**by Subgroups in Grade 10**

	Percentage who used in last 12 months													2012– 2013 change
	1991– 2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	—	3.0	3.6	3.5	3.2	3.8	3.9	3.6	5.1	4.6	3.9	3.0	3.4	+0.4
Gender:														
Male	—	3.6	4.3	3.8	3.4	3.7	4.2	3.8	5.6	4.9	3.8	3.2	4.7	+1.5
Female	—	2.4	2.9	3.1	3.0	4.0	3.5	3.5	4.5	4.1	4.0	2.8	2.2	-0.6
College Plans:														
None or under 4 years	—	6.5	10.8	7.2	8.0	11.0	8.8	10.2	12.6	13.9	11.8	9.1	6.1	-3.0
Complete 4 years	—	2.5	2.5	3.0	2.6	2.9	3.2	2.9	4.2	3.5	2.9	2.4	3.1	+0.7
Region:														
Northeast	—	3.6	3.7	4.6	3.8	3.1	2.8	3.2	3.6	4.4	4.5	3.0	3.1	+0.1
Midwest	—	2.1	2.9	2.5	3.5	4.1	4.3	3.9	5.8	4.9	4.2	2.0	4.2	+2.2 s
South	—	3.7	4.2	4.8	3.6	4.4	4.7	4.1	5.4	4.8	4.0	3.5	2.7	-0.8
West	—	2.6	3.5	1.9	1.6	3.3	3.3	3.0	5.2	4.2	2.9	3.4	3.7	+0.3
Population Density:														
Large MSA	—	2.0	2.3	2.1	2.8	3.4	3.5	2.5	4.5	4.2	2.9	2.3	3.2	+0.9
Other MSA	—	3.3	3.6	3.7	2.7	3.3	3.5	4.1	5.8	4.3	3.6	2.6	3.4	+0.8
Non-MSA	—	3.7	5.7	5.1	4.9	5.8	5.4	4.1	4.4	5.7	5.7	4.9	3.6	-1.3
Parental Education: <sup>b</sup>														
1.0–2.0 (Low)	—	6.5	5.9	3.7	3.3	6.9	3.9	3.1	6.5	7.9	5.5	4.4	5.2	+0.7
2.5–3.0	—	3.8	3.9	4.0	4.8	5.3	5.9	5.1	6.7	6.9	5.4	4.1	4.4	+0.3
3.5–4.0	—	2.0	4.1	4.1	3.0	4.3	3.5	3.6	5.5	4.0	4.3	3.9	3.2	-0.6
4.5–5.0	—	1.7	2.9	2.6	2.6	2.3	3.4	3.2	3.9	2.9	2.4	1.7	2.7	+1.0
5.5–6.0 (High)	—	4.4	2.8	2.8	2.6	2.4	2.8	3.5	4.6	3.6	3.2	2.2	2.8	+0.6
Race/Ethnicity (2-year average): <sup>c</sup>														
White	—	—	3.6	4.1	4.1	4.1	4.6	4.7	5.0	5.3	4.4	3.5	3.5	0.0
African American	—	—	2.3	2.0	1.1	1.5	1.8	1.5	1.7	2.4	2.9	1.8	1.5	-0.3
Hispanic	—	—	2.5	2.9	2.3	1.8	1.9	1.8	2.9	4.0	4.4	3.6	1.9	-1.6

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

*Notes.* Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available.  
 Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.  
 See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms;  
*N* is one third of *N* indicated in Table S2.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 57**  
**OXYCONTIN:<sup>a</sup> Trends in Annual Prevalence of Use**  
**by Subgroups in Grade 12**

	Percentage who used in last 12 months													2012– 2013 change
	1975– 2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
<b>Total</b>	—	4.0	4.5	5.0	5.5	4.3	5.2	4.7	4.9	5.1	4.9	4.3	3.6	-0.7
<b>Gender:</b>														
Male	—	5.6	6.2	6.1	7.4	5.3	6.3	5.3	6.5	5.9	5.9	5.1	4.7	-0.4
Female	—	2.6	2.8	3.4	3.5	2.9	4.0	4.0	3.4	3.8	3.8	3.1	2.5	-0.6
<b>College Plans:</b>														
None or under 4 years	—	7.0	8.8	8.2	9.9	7.4	7.8	7.6	6.7	10.2	9.7	5.2	6.0	+0.7
Complete 4 years	—	3.2	3.1	3.8	4.3	3.3	4.5	4.1	4.5	3.9	3.9	4.0	2.8	-1.2 s
<b>Region:</b>														
Northeast	—	5.0	5.5	4.6	6.0	5.5	5.5	4.6	5.0	6.3	4.4	3.6	3.6	-0.1
Midwest	—	5.0	4.5	4.2	6.0	4.3	5.1	4.4	5.4	5.0	4.3	4.5	3.0	-1.5
South	—	3.6	4.0	5.9	6.3	4.0	5.2	4.9	4.3	4.8	5.0	4.3	4.1	-0.2
West	—	2.6	4.4	4.7	3.0	3.6	5.1	4.9	5.0	4.7	5.9	4.5	3.3	-1.2
<b>Population Density:</b>														
Large MSA	—	3.7	2.8	4.6	4.8	4.4	4.2	3.9	4.2	5.4	3.9	4.6	2.8	-1.8 s
Other MSA	—	3.8	5.3	5.2	5.1	3.6	5.4	5.0	5.2	4.8	5.2	4.0	4.2	+0.2
Non-MSA	—	4.7	5.2	4.9	7.1	5.4	6.2	5.1	5.2	5.3	6.0	4.6	3.1	-1.5
<b>Parental Education:<sup>b</sup></b>														
1.0–2.0 (Low)	—	6.3	6.9	3.7	5.5	4.2	4.4	3.8	4.9	4.9	3.4	4.3	6.0	+1.6
2.5–3.0	—	5.3	6.8	4.8	6.3	4.4	5.6	4.5	4.6	5.5	4.8	4.2	3.4	-0.8
3.5–4.0	—	3.9	3.4	6.5	6.3	5.1	5.0	6.0	5.8	5.4	5.7	4.6	3.4	-1.3
4.5–5.0	—	2.2	3.6	3.1	4.2	3.4	5.3	4.3	4.8	4.2	4.4	4.4	3.5	-0.9
5.5–6.0 (High)	—	4.0	2.5	4.3	4.8	3.5	4.3	3.8	4.1	4.7	5.0	3.5	2.2	-1.4
<b>Race/Ethnicity (2-year average):<sup>c</sup></b>														
White	—	—	4.7	5.1	5.8	5.4	5.5	6.0	5.8	5.7	5.8	5.2	4.0	-1.2
African American	—	—	2.5	2.4	2.0	2.2	2.4	2.1	2.0	3.1	3.2	2.8	3.4	+0.6
Hispanic	—	—	2.5	2.2	3.0	3.7	3.2	2.1	2.9	3.5	3.0	3.2	3.4	+0.2

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

*Notes.* Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms in 2002–2005; *N* is two sixths of *N* indicated in Table S3. Data based on three of six forms beginning in 2006; *N* is three sixths of *N* indicated in Table S3.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 58**  
**VICODIN:<sup>a</sup> Trends in Annual Prevalence of Use**  
**by Subgroups in Grade 8**

	Percentage who used in last 12 months													2012– 2013 change
	1991– 2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	—	2.5	2.8	2.5	2.6	3.0	2.7	2.9	2.5	2.7	2.1	1.3	1.4	0.0
Gender:														
Male	—	2.7	2.8	2.4	2.9	2.6	2.1	2.9	3.0	2.8	2.1	0.8	1.1	+0.3
Female	—	2.4	2.8	2.6	2.2	3.4	3.2	2.7	2.2	2.6	1.9	1.7	1.6	-0.1
College Plans:														
None or under 4 years	—	5.9	6.3	7.1	7.3	9.5	8.1	7.0	6.5	7.2	6.4	3.0	4.0	+1.1
Complete 4 years	—	2.1	2.4	2.0	1.9	2.4	2.1	2.5	2.3	2.2	1.8	1.2	1.2	-0.1
Region:														
Northeast	—	1.5	1.1	1.0	1.5	1.9	1.4	1.0	1.8	2.8	1.7	0.7	1.6	+0.9
Midwest	—	3.3	3.9	3.2	3.3	3.9	3.6	3.1	3.5	3.4	2.8	1.8	1.0	-0.9
South	—	2.5	2.1	2.1	2.3	2.2	2.1	2.9	1.7	1.8	1.5	1.5	1.1	-0.4
West	—	2.6	4.2	3.6	3.1	4.4	3.5	3.7	3.3	3.2	3.0	1.1	2.0	+0.9
Population Density:														
Large MSA	—	2.6	2.4	1.8	2.5	2.4	1.6	2.7	1.9	1.8	1.2	1.8	1.3	-0.5
Other MSA	—	3.0	3.1	3.0	2.6	3.3	3.4	3.0	2.6	3.2	2.7	1.0	1.4	+0.4
Non-MSA	—	1.6	2.5	2.4	2.6	3.3	2.8	2.8	3.2	2.8	2.4	1.6	1.5	-0.1
Parental Education: <sup>b</sup>														
1.0–2.0 (Low)	—	3.3	3.3	4.9	3.9	4.8	3.1	3.4	5.4	3.9	4.0	1.7	1.7	0.0
2.5–3.0	—	3.9	3.4	4.1	3.8	4.0	3.0	3.3	3.8	3.3	3.0	1.2	1.1	-0.1
3.5–4.0	—	3.4	2.9	3.2	2.9	2.7	3.1	2.8	2.5	1.6	2.8	1.3	2.3	+1.0
4.5–5.0	—	1.4	2.1	1.1	1.9	2.6	2.4	3.2	1.5	2.7	1.4	1.3	1.4	+0.1
5.5–6.0 (High)	—	1.3	2.1	0.9	1.6	2.2	1.8	2.3	2.1	2.7	0.9	1.0	0.8	-0.2
Race/Ethnicity (2-year average): <sup>c</sup>														
White	—	—	3.0	2.7	2.4	2.9	3.2	3.2	2.8	2.6	2.5	1.8	1.2	-0.6
African American	—	—	1.4	1.4	1.6	1.7	1.6	1.6	1.9	2.0	1.3	1.2	1.3	+0.1
Hispanic	—	—	2.1	3.3	3.6	2.8	2.6	2.1	2.5	3.0	2.8	2.1	1.9	-0.3

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

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

Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

Data based on one of four forms; *N* is one third of *N* indicated in Table S1.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 59**  
**VICODIN: <sup>a</sup> Trends in Annual Prevalence of Use**  
**by Subgroups in Grade 10**

	Percentage who used in last 12 months													
	1991– 2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2012– 2013 change
<i>Approximate weighted N =</i>	—	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	—	6.9	7.2	6.2	5.9	7.0	7.2	6.7	8.1	7.7	5.9	4.4	4.6	+0.2
Gender:														
Male	—	7.4	8.4	6.2	5.5	7.0	7.5	7.1	9.2	8.1	6.0	4.5	5.1	+0.6
Female	—	6.1	6.1	6.0	6.2	6.9	6.8	6.4	7.0	7.0	5.8	4.4	4.1	-0.3
College Plans:														
None or under 4 years	—	13.4	15.8	11.6	13.2	17.2	15.2	16.5	17.6	16.9	14.1	8.8	9.3	+0.5
Complete 4 years	—	5.7	5.8	5.4	4.8	5.6	6.1	5.6	7.1	6.5	4.9	4.0	4.1	+0.2
Region:														
Northeast	—	6.2	5.6	6.4	5.7	4.9	6.5	5.3	5.1	5.6	4.6	3.3	3.5	+0.2
Midwest	—	7.2	9.4	6.4	7.1	8.7	8.8	8.4	10.5	9.3	8.1	4.6	5.8	+1.2
South	—	5.3	5.0	5.0	5.0	4.2	4.5	5.2	5.6	6.0	4.3	3.4	3.1	-0.3
West	—	10.0	9.1	7.1	5.8	11.1	9.4	7.9	12.1	10.1	6.6	6.6	6.0	-0.6
Population Density:														
Large MSA	—	5.7	7.1	4.8	6.5	6.1	6.8	6.2	7.7	7.1	5.7	4.3	4.8	+0.4
Other MSA	—	7.9	6.4	6.9	5.3	7.6	7.2	6.7	8.9	7.5	5.8	4.5	4.7	+0.3
Non-MSA	—	6.2	9.2	6.4	6.3	6.9	7.8	7.6	7.1	8.9	6.3	4.5	4.0	-0.5
Parental Education: <sup>b</sup>														
1.0–2.0 (Low)	—	6.1	6.4	6.4	4.9	7.6	6.5	6.3	10.4	12.1	5.8	6.6	8.2	+1.6
2.5–3.0	—	8.0	8.3	8.2	7.7	8.0	8.6	7.5	9.1	9.6	7.5	5.8	4.4	-1.3
3.5–4.0	—	7.5	8.5	6.2	6.8	8.1	8.2	7.9	9.0	8.9	7.3	4.9	5.3	+0.4
4.5–5.0	—	5.7	6.3	5.1	5.0	5.6	7.0	6.0	7.3	4.5	4.3	3.6	3.7	0.0
5.5–6.0 (High)	—	6.6	5.6	5.0	4.6	6.3	4.7	5.7	6.0	5.8	4.1	3.1	3.7	+0.6
Race/Ethnicity (2-year average): <sup>c</sup>														
White	—	—	8.0	7.6	7.1	7.4	8.3	8.5	8.3	8.3	7.2	5.3	4.7	-0.6
African American	—	—	3.1	3.0	1.6	2.2	2.4	2.2	2.7	3.4	3.0	1.7	1.9	+0.2
Hispanic	—	—	6.5	6.0	4.8	4.4	4.2	4.1	6.2	8.2	7.3	5.6	4.6	-1.1

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

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

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

See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms;

$N$  is one third of  $N$  indicated in Table S2.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 60**  
**VICODIN:<sup>a</sup> Trends in Annual Prevalence of Use**  
**by Subgroups in Grade 12**

	Percentage who used in last 12 months													2012– 2013 change
	1975– 2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
Total	—	9.6	10.5	9.3	9.5	9.7	9.6	9.7	9.7	8.0	8.1	7.5	5.3	-2.2 ss
Gender:														
Male	—	12.0	13.0	10.7	11.9	10.9	10.9	10.6	11.5	9.5	9.0	8.6	6.5	-2.1 s
Female	—	7.5	8.1	7.6	7.2	8.7	8.1	8.9	7.9	6.4	7.1	5.9	4.1	-1.8 s
College Plans:														
None or under 4 years	—	13.0	14.7	11.6	14.3	11.8	13.2	15.0	13.1	12.0	13.2	9.2	8.3	-0.9
Complete 4 years	—	8.4	9.1	8.3	8.4	9.1	8.5	8.5	8.9	7.1	7.1	6.8	4.5	-2.3 ss
Region:														
Northeast	—	8.1	9.4	9.1	8.8	10.8	9.3	9.9	9.0	9.0	5.8	5.4	5.4	0.0
Midwest	—	11.6	13.2	8.4	12.4	12.0	14.1	11.7	14.3	9.6	9.6	9.7	6.7	-3.0
South	—	8.1	6.1	7.0	7.8	6.9	6.3	7.3	6.2	5.0	5.6	4.9	3.1	-1.9
West	—	10.9	16.3	15.4	9.3	11.2	10.9	11.1	10.4	10.6	11.9	9.7	7.1	-2.6
Population Density:														
Large MSA	—	9.7	7.3	8.3	8.9	10.4	9.1	8.4	8.6	8.4	8.7	8.7	5.5	-3.1 s
Other MSA	—	10.6	12.2	10.9	9.3	9.4	9.3	10.0	9.7	8.5	8.2	6.8	5.5	-1.4
Non-MSA	—	7.8	11.4	7.2	10.6	9.5	10.7	10.5	11.3	6.2	7.2	7.3	4.6	-2.7
Parental Education: <sup>b</sup>														
1.0–2.0 (Low)	—	12.1	9.4	7.8	7.8	7.9	6.3	7.8	9.6	6.0	8.6	6.8	6.0	-0.8
2.5–3.0	—	9.6	10.8	8.8	10.5	9.3	10.2	10.5	9.2	8.5	7.6	9.0	5.0	-4.0 ss
3.5–4.0	—	9.5	12.0	10.1	10.0	11.6	9.9	11.2	10.9	8.3	9.0	7.8	6.5	-1.2
4.5–5.0	—	9.9	9.7	8.4	9.0	8.6	10.5	8.8	10.3	7.9	7.3	7.1	5.3	-1.9
5.5–6.0 (High)	—	8.6	8.8	10.1	8.9	10.4	7.9	8.8	7.7	8.4	7.7	5.5	3.4	-2.1
Race/Ethnicity (2-year average): <sup>c</sup>														
White	—	—	11.7	11.2	10.5	11.3	11.5	11.6	11.8	10.4	9.4	8.7	6.6	-2.1
African American	—	—	3.3	3.1	3.3	3.7	3.3	3.6	4.3	4.3	4.1	3.8	3.2	-0.6
Hispanic	—	—	7.1	7.2	7.7	6.5	5.7	4.9	5.7	6.2	6.0	7.1	7.1	0.0

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

*Notes.* Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms in 2002–2005; *N* is two sixths of *N* indicated in Table S3. Data based on three of six forms beginning in 2006; *N* is three sixths of *N* indicated in Table S3.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 61**  
**AMPHETAMINES: <sup>a</sup> Trends in Annual Prevalence of Use**  
**by Subgroups in Grade 8**

	Percentage who used in last 12 months																						2012– 2013 change	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		2013
<i>Approximate weighted N =</i>	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	6.2	6.5	7.2	7.9	8.7	9.1	8.1	7.2	6.9	6.5	6.7	5.5	5.5	4.9	4.9	4.7	4.2	4.5	4.1	3.9	3.5	2.9	2.6	-0.3
Gender:																								
Male	5.5	5.2	5.6	6.5	7.0	6.7	6.6	5.6	5.6	5.1	5.7	4.8	4.4	3.7	3.5	3.5	3.3	3.5	3.7	3.4	3.1	2.4	1.7	-0.6
Female	6.9	7.9	8.8	9.3	10.3	11.3	9.6	8.7	8.2	7.7	7.5	6.2	6.5	6.1	6.2	5.7	4.9	5.5	4.4	4.3	3.8	3.3	3.4	+0.1
College Plans:																								
None or under 4 years	11.6	12.9	14.6	14.5	17.1	15.5	14.1	15.4	14.0	14.2	12.0	12.2	12.4	8.9	11.2	10.7	10.0	12.4	10.8	8.8	8.1	6.8	7.4	+0.6
Complete 4 years	5.4	5.7	6.3	7.0	7.6	8.3	7.5	6.3	6.2	5.7	6.1	4.8	4.8	4.5	4.3	4.1	3.6	3.8	3.5	3.5	3.1	2.6	2.2	-0.4
Region:																								
Northeast	5.1	4.3	5.9	6.9	7.3	7.6	6.5	5.5	5.6	5.0	5.5	3.4	4.1	2.8	3.5	2.2	2.6	2.6	2.9	2.0	2.3	2.1	2.0	-0.1
Midwest	7.1	8.0	7.3	7.8	10.6	10.8	9.3	7.2	8.3	7.8	7.1	5.9	5.9	5.1	5.0	5.3	4.8	5.1	4.1	4.0	3.5	2.2	2.0	-0.2
South	6.1	6.6	7.3	8.3	8.6	8.7	8.1	8.4	7.5	7.0	8.1	6.7	6.4	5.7	5.8	5.6	4.6	5.5	5.1	4.8	3.8	4.0	3.0	-1.0
West	6.0	6.6	8.6	8.4	7.9	9.1	8.3	6.7	5.4	5.4	4.6	4.7	4.6	4.9	4.6	4.3	3.7	3.8	3.0	3.6	3.9	2.2	2.9	+0.8
Population Density:																								
Large MSA	5.8	4.8	5.6	6.6	7.2	7.9	6.4	5.4	5.2	5.2	5.0	4.2	3.9	4.0	3.6	3.9	3.4	4.1	2.7	2.6	2.6	2.6	2.0	-0.6
Other MSA	6.2	7.5	8.2	8.8	8.9	10.0	8.1	7.4	6.8	6.4	7.6	5.9	5.5	5.4	5.8	4.8	4.6	4.8	4.8	4.6	4.1	3.1	2.7	-0.4
Non-MSA	6.7	7.0	7.5	7.5	10.1	8.9	9.9	8.8	9.3	8.5	6.9	6.3	7.5	5.0	5.2	5.4	4.4	4.4	4.3	3.9	3.6	3.0	3.4	+0.5
Parental Education: <sup>b</sup>																								
1.0–2.0 (Low)	8.3	8.4	10.2	11.2	11.8	10.1	9.6	11.2	8.9	9.7	7.4	6.3	8.4	9.7	8.3	6.5	7.3	7.9	6.5	5.9	5.1	3.8	3.7	-0.1
2.5–3.0	6.6	7.3	8.2	9.0	10.6	9.9	9.2	8.1	7.8	8.1	8.2	7.3	7.4	5.2	6.6	6.0	4.9	6.0	4.5	4.6	5.4	3.7	2.8	-0.9
3.5–4.0	6.7	7.4	7.8	8.5	10.1	10.3	8.9	7.7	8.2	6.8	7.8	5.7	5.9	5.6	5.6	5.0	4.5	5.4	5.3	4.1	3.8	3.4	2.9	-0.5
4.5–5.0	5.3	5.5	6.4	6.6	6.8	8.6	7.5	6.2	5.6	5.2	5.9	4.9	4.3	4.2	3.7	4.2	2.9	3.2	3.3	3.5	2.5	1.9	2.5	+0.6
5.5–6.0 (High)	5.7	5.4	5.3	5.7	6.4	8.7	7.3	6.4	5.8	5.2	4.5	4.3	3.9	3.5	3.1	3.6	3.5	3.4	2.8	2.5	2.4	2.6	1.8	-0.9
Race/Ethnicity (2-year average): <sup>c</sup>																								
White	—	6.8	7.4	8.1	9.3	10.2	9.9	9.0	8.4	8.0	7.8	7.2	6.4	5.9	5.4	5.3	4.9	4.9	4.9	4.5	3.9	3.2	2.7	-0.5
African American	—	3.3	3.4	3.9	3.9	3.4	3.0	2.8	2.7	2.4	2.3	2.7	2.5	2.1	2.2	2.0	1.7	1.8	2.4	2.3	1.9	1.9	1.6	-0.3
Hispanic	—	7.2	7.7	8.6	8.7	8.6	8.1	7.2	7.0	6.8	6.6	5.9	5.0	5.4	5.3	4.5	3.9	4.0	3.9	3.5	3.9	3.6	2.6	-1.0

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. In 2009, 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 changes. In 2010 the remaining forms were changed in a like manner. In 2013 the question wording was changed slightly in two of the four questionnaire forms.

2013 data presented here are based on the unchanged forms only; N is one half of N indicated.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details

on how race/ethnicity is defined. 2013 race/ethnicity data are based on the 2012 data combined with the 2013 data from the unchanged forms which were double weighted.

**TABLE 62**  
**AMPHETAMINES:<sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months																						2012– 2013 change	
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>		<u>2013</u>
<i>Approximate weighted N =</i>	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	8.2	8.2	9.6	10.2	11.9	12.4	12.1	10.7	10.4	11.1	11.7	10.7	9.0	8.5	7.8	7.9	8.0	6.4	7.1	7.6	6.6	6.5	5.9	-0.6
Gender:																								
Male	7.0	7.0	8.2	8.6	9.6	10.5	10.3	9.0	9.2	10.3	10.6	9.6	7.8	7.3	6.6	6.7	7.4	5.8	6.8	7.4	7.2	6.9	6.0	-0.9
Female	9.3	9.3	10.9	11.7	14.1	14.2	13.9	12.3	11.5	11.8	12.7	11.8	10.1	9.6	9.0	8.9	8.7	6.9	7.4	7.7	6.0	6.2	5.9	-0.3
College Plans:																								
None or under 4 years	13.4	14.4	15.5	16.6	19.9	20.3	19.3	17.9	16.3	18.2	20.4	17.5	15.7	14.8	13.7	14.8	15.4	12.5	15.3	15.7	14.6	13.8	12.4	-1.4
Complete 4 years	7.1	6.9	8.4	8.9	10.6	11.1	10.9	9.5	9.5	10.0	10.3	9.7	7.9	7.6	7.0	7.0	7.1	5.6	6.3	6.7	5.7	5.8	5.3	-0.5
Region:																								
Northeast	6.1	5.4	7.8	8.7	9.8	11.5	10.7	11.0	12.1	9.8	10.5	9.3	7.4	8.5	7.4	6.7	7.3	4.2	5.2	5.9	5.7	6.2	4.9	-1.3
Midwest	10.3	9.4	9.5	10.5	13.3	14.0	11.0	9.8	10.3	11.1	10.7	10.4	9.7	8.2	8.5	8.7	8.7	7.3	7.0	8.6	7.4	6.4	6.7	+0.3
South	8.1	8.7	10.9	11.2	12.8	12.6	14.2	12.6	10.8	12.0	14.0	12.2	10.2	9.6	8.6	8.5	8.1	6.8	8.3	7.6	7.2	7.5	5.7	-1.9
West	7.7	8.4	9.5	9.4	10.6	10.6	11.1	8.5	8.2	10.9	9.9	9.6	8.1	7.3	5.8	7.1	7.7	6.6	7.4	8.1	5.6	5.2	6.0	+0.9
Population Density:																								
Large MSA	7.5	6.7	7.6	8.0	9.2	10.5	9.9	8.9	9.3	10.7	9.8	9.8	6.2	6.2	6.5	6.8	7.5	5.4	6.3	6.9	6.0	5.9	5.0	-0.9
Other MSA	7.9	8.0	9.5	10.8	12.8	12.8	11.5	10.3	10.6	9.9	11.1	11.0	9.5	9.6	8.0	8.3	8.0	6.6	7.7	8.0	6.4	6.5	7.1	+0.6
Non-MSA	9.3	10.0	11.6	11.2	13.3	13.7	15.5	13.8	11.5	13.6	15.1	11.2	12.2	9.2	9.0	8.7	9.0	7.2	7.3	8.1	8.0	7.3	4.4	-3.0 s
Parental Education: <sup>b</sup>																								
1.0–2.0 (Low)	10.0	11.9	12.3	10.8	14.3	15.1	12.2	12.6	10.7	13.3	12.3	13.1	10.9	9.2	8.9	9.3	7.9	7.8	9.8	9.6	6.6	9.8	6.2	-3.6
2.5–3.0	9.7	8.9	10.5	11.6	14.2	13.0	14.1	12.8	11.3	12.9	13.6	12.8	11.2	9.9	8.9	9.0	10.2	7.6	8.0	8.5	7.9	6.8	6.6	-0.2
3.5–4.0	7.9	8.4	10.5	11.1	12.4	14.1	13.5	11.1	11.2	12.2	12.6	11.1	9.9	10.1	8.1	9.1	8.9	7.7	7.8	8.3	7.3	6.7	6.8	+0.2
4.5–5.0	7.4	6.6	7.5	8.9	10.7	10.7	10.6	9.0	9.8	9.7	10.5	9.5	7.6	7.2	7.4	6.6	6.9	5.4	6.0	6.9	5.8	6.1	5.1	-1.0
5.5–6.0 (High)	6.9	6.9	8.3	7.3	8.8	10.1	9.2	9.4	9.8	8.8	9.2	8.1	6.4	6.3	6.6	6.8	6.0	4.3	6.5	6.3	5.3	5.7	5.8	+0.1
Race/Ethnicity (2-year average): <sup>c</sup>																								
White	—	9.4	10.1	11.0	12.4	13.9	14.2	13.6	12.6	12.7	13.4	13.4	12.2	10.6	9.5	9.2	9.4	8.7	7.8	8.5	8.3	7.4	7.1	-0.3
African American	—	2.8	3.0	4.0	4.0	3.4	3.1	2.9	2.8	2.5	2.9	3.5	2.8	2.7	3.0	2.8	2.3	2.3	2.3	2.8	3.0	2.9	2.6	-0.3
Hispanic	—	6.2	7.0	7.7	8.9	10.3	9.8	8.9	8.8	9.1	8.3	7.9	7.7	7.3	7.3	6.3	5.8	6.0	6.1	6.3	6.1	6.1	4.7	-1.4

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. In 2009, the question text was changed slightly in half of the questionnaire forms. An examination of data did not show any effect from the wording changes. In 2010 the remaining forms were changed in a like manner. In 2013 the question wording was changed slightly in two of the four questionnaire forms. 2013 data presented here are based on the unchanged forms only; N is one half of N indicated.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined. 2013 race/ethnicity data are based on the 2012 data combined with the 2013 data from the unchanged forms which were double weighted.



**TABLE 63**  
**AMPHETAMINES:** <sup>a,b</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 12

	Percentage who used in last 12 months																				→ (Years cont.)
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	
<i>Approximate weighted N =</i>	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
Total	16.2	15.8	16.3	17.1	18.3	20.8	26.0	20.3	17.9	17.7	15.8	13.4	12.2	10.9	10.8	9.1	8.2	7.1	8.4	9.4	
Gender:																					
Male	15.6	15.8	16.0	16.9	18.4	19.7	24.8	19.6	17.2	16.8	14.9	12.7	11.8	10.8	11.1	9.4	8.3	7.2	8.2	9.2	
Female	16.5	15.4	16.4	17.1	17.8	21.8	26.9	20.3	17.9	18.2	16.4	13.8	12.4	10.9	10.5	8.6	7.9	6.9	8.5	9.4	
College Plans:																					
None or under 4 years	—	19.3	20.5	20.0	21.8	25.8	30.9	23.7	20.9	22.2	19.7	17.7	16.0	13.9	15.1	12.6	11.0	9.7	11.0	13.4	
Complete 4 years	—	11.9	11.5	13.7	14.5	16.5	22.3	16.8	14.5	14.2	13.3	10.9	10.2	9.5	9.1	7.4	7.0	6.1	7.6	8.0	
Region:																					
Northeast	16.5	14.7	16.8	19.6	22.0	22.0	28.8	21.5	17.9	19.0	16.8	12.6	10.4	8.4	9.0	6.3	6.5	6.2	8.1	7.4	
Midwest	18.7	17.8	19.0	18.2	18.3	22.2	30.1	24.1	20.4	20.3	17.3	15.2	13.5	12.2	13.3	10.7	10.1	8.4	8.9	12.0	
South	12.6	13.7	13.2	14.0	14.0	17.7	19.6	16.4	15.4	15.1	12.8	11.5	11.5	10.8	9.9	8.9	7.9	6.7	8.3	9.0	
West	18.5	17.2	16.0	17.8	20.7	22.1	26.6	18.7	18.2	16.9	17.3	15.0	13.4	11.8	11.1	10.2	7.8	6.9	8.3	8.4	
Population Density:																					
Large MSA	19.6	15.4	15.3	17.7	19.5	21.9	28.0	21.6	18.1	17.7	15.0	11.2	10.9	8.8	7.1	6.5	6.2	6.0	6.5	7.8	
Other MSA	15.5	16.3	17.1	17.5	18.9	20.8	25.5	20.7	19.6	17.1	15.7	14.2	11.9	11.9	11.4	9.6	8.4	6.7	8.5	9.4	
Non-MSA	14.8	15.4	15.9	16.0	16.6	19.9	25.1	18.8	15.6	18.5	16.6	14.1	14.0	11.3	13.3	10.6	9.5	9.0	9.8	10.9	
Parental Education: <sup>c</sup>																					
1.0–2.0 (Low)	15.7	13.4	14.5	14.9	16.0	19.1	22.3	18.7	15.7	17.1	14.5	11.9	11.9	9.8	10.4	7.6	9.5	7.0	9.0	10.4	
2.5–3.0	16.7	16.9	17.4	17.3	18.4	22.2	26.7	21.9	19.6	19.2	17.0	15.2	13.3	11.1	11.7	9.7	9.1	7.7	8.6	10.3	
3.5–4.0	14.9	16.6	16.1	18.2	19.6	21.5	26.9	21.7	19.4	18.5	17.2	14.3	12.6	11.8	12.3	10.6	8.9	7.7	9.1	9.4	
4.5–5.0	14.5	16.8	15.9	16.9	17.1	20.0	26.2	19.1	18.9	15.9	15.1	12.0	11.7	10.3	9.4	8.1	6.5	6.3	8.0	9.5	
5.5–6.0 (High)	12.0	14.6	16.0	17.2	20.4	17.9	26.8	20.5	16.1	14.0	10.9	10.1	10.4	10.0	9.1	7.3	5.7	5.8	7.6	7.1	
Race/Ethnicity (2-year average): <sup>d</sup>																					
White	—	—	17.3	18.2	19.2	21.3	26.4	23.6	22.3	20.5	18.9	16.4	14.3	13.0	12.4	11.4	9.8	8.8	9.0	10.4	
African American	—	—	5.3	4.7	4.2	5.3	5.8	6.0	5.7	4.7	4.3	4.0	3.8	3.9	3.6	3.1	2.7	2.2	2.3	3.4	
Hispanic	—	—	12.3	12.2	12.8	14.5	17.5	12.3	11.5	13.2	14.6	10.8	8.7	9.6	9.0	7.0	6.1	6.0	6.2	6.4	

(Table continued on next page.)

**TABLE 63 (cont.)**  
**AMPHETAMINES:** <sup>a,b</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 12

	Percentage who used in last 12 months																			2012– 2013 change	
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
Approximate weighted N =	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	9.3	9.5	10.2	10.1	10.2	10.5	10.9	11.1	9.9	10.0	8.6	8.1	7.5	6.8	6.6	7.4	8.2	7.9	8.7	+0.8	
Gender:																					
Male	9.5	9.6	10.1	10.3	10.6	10.4	10.9	11.3	9.8	9.9	9.1	7.4	7.4	6.5	7.5	8.3	8.8	8.2	9.8	+1.5	
Female	8.9	8.8	10.2	9.8	9.6	10.5	10.6	10.7	9.5	9.9	7.9	8.5	7.3	6.8	5.7	6.4	7.4	7.5	7.8	+0.2	
College Plans:																					
None or under 4 years	12.3	12.8	14.1	13.6	12.7	13.9	14.4	14.8	14.4	13.3	11.5	10.6	10.3	10.7	8.4	10.5	11.6	8.9	13.1	+4.2 ss	
Complete 4 years	8.3	8.4	8.9	9.0	9.5	9.6	9.8	10.1	8.4	8.9	7.8	7.5	6.7	5.7	6.1	6.7	7.4	7.6	7.6	0.0	
Region:																					
Northeast	9.6	10.4	11.1	9.0	9.9	10.6	12.0	11.5	9.7	9.5	7.4	8.5	7.5	6.5	6.7	8.6	7.1	7.0	8.7	+1.8	
Midwest	9.5	10.0	10.8	11.0	10.5	10.4	12.7	11.3	10.3	10.2	10.3	7.6	8.2	6.9	7.8	8.1	8.6	9.0	10.0	+1.0	
South	9.2	9.1	9.8	10.4	10.8	10.2	9.5	11.7	9.7	10.3	9.4	8.8	7.9	7.1	6.5	6.9	8.1	7.0	7.4	+0.3	
West	8.9	8.3	9.1	9.6	8.8	10.9	9.7	9.6	9.7	9.5	6.1	7.0	5.8	6.3	5.2	6.5	8.7	8.5	9.5	+1.0	
Population Density:																					
Large MSA	9.1	7.9	8.9	9.0	7.0	8.3	10.6	10.7	7.5	8.0	7.8	8.7	6.7	6.2	6.3	6.8	7.4	9.2	8.4	-0.8	
Other MSA	8.5	8.9	9.5	9.9	10.8	10.9	10.8	11.0	10.5	10.6	8.9	7.6	7.4	6.7	7.0	8.0	8.7	7.8	10.1	+2.3	
Non-MSA	10.8	11.9	13.0	12.2	12.4	12.4	11.4	12.1	11.7	11.1	8.9	8.2	8.6	7.5	6.2	6.8	8.1	6.1	6.1	-0.1	
Parental Education: <sup>c</sup>																					
1.0–2.0 (Low)	9.9	8.1	9.8	9.7	9.9	11.0	8.9	8.1	10.6	7.5	6.1	8.2	7.5	7.3	5.5	5.0	6.8	6.0	8.5	+2.5	
2.5–3.0	9.9	10.5	10.3	10.6	11.3	11.0	12.2	11.4	9.9	11.0	9.2	8.2	7.6	7.3	7.3	7.2	8.1	7.8	8.0	+0.2	
3.5–4.0	9.1	9.3	10.8	11.4	10.8	10.6	11.6	12.3	10.7	12.3	9.5	8.9	7.6	6.5	7.3	7.9	8.3	8.0	10.1	+2.1	
4.5–5.0	9.2	8.9	9.4	9.4	9.7	10.3	10.7	11.1	9.4	8.2	8.5	7.8	7.4	6.2	6.3	8.1	7.6	8.7	7.5	-1.3	
5.5–6.0 (High)	8.1	9.1	10.2	8.7	8.4	10.2	8.7	10.2	7.7	8.4	7.4	7.0	7.1	7.1	5.6	7.5	9.7	8.4	9.9	+1.6	
Race/Ethnicity (2-year average): <sup>d</sup>																					
White	10.7	10.5	11.4	12.1	11.9	11.9	12.6	13.2	12.4	11.6	11.0	9.9	9.3	8.7	8.1	8.6	9.6	10.0	10.1	+0.1	
African American	3.4	2.9	2.8	2.8	2.5	2.6	3.0	2.9	2.8	2.4	2.4	2.6	2.5	2.2	2.3	2.8	2.9	2.9	3.3	+0.4	
Hispanic	7.1	7.8	7.3	7.0	7.6	9.2	9.2	7.9	6.8	7.0	6.7	6.4	5.8	4.7	4.4	4.4	4.8	4.7	6.3	+1.6	

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. In 2013 the question wording was changed slightly in four of the six questionnaire forms. Vyvanse was added to the list of examples in one questionnaire form. 2013 data presented here are based on the unchanged forms only;  $N$  is two sixths of  $N$  indicated.

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

<sup>b</sup>Beginning in 1982, the question about amphetamine use was revised to get respondents to exclude the inappropriate reporting of nonprescription amphetamines. The prevalence rate dropped slightly as a result of this methodological change. (In 1982 and 1983, the data are based on three of the five questionnaire forms.) Only drug use not under a doctor's orders is included here. In 2009, 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 changes. In 2010 the remaining forms were changed in a like manner. In 2011 bennies, Benzedrine, and Methadrine were deleted from the list of examples in one questionnaire form. An examination of the data did not show any effect from the wording changes.

<sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined. 2013 race/ethnicity data are based on the 2012 data combined with the 2013 data from the unchanged forms which were triple weighted.

**TABLE 64**  
**RITALIN: <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 12 months														2012– 2013 change
	1991– 2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	—	2.9	2.8	2.6	2.5	2.4	2.6	2.1	1.6	1.8	1.5	1.3	0.7	1.1	+0.4
Gender:															
Male	—	3.2	3.2	2.9	2.6	2.4	2.7	1.9	1.5	2.4	1.5	1.1	0.5	1.3	+0.8 s
Female	—	2.6	2.5	2.3	2.4	2.4	2.5	2.3	1.5	1.4	1.5	1.3	0.8	0.8	+0.1
College Plans:															
None or under 4 years	—	8.1	7.7	6.8	8.8	7.5	9.0	4.2	5.7	5.3	5.8	3.7	3.0	3.2	+0.2
Complete 4 years	—	2.4	2.2	2.1	1.8	1.8	1.9	1.8	1.2	1.6	1.1	1.1	0.5	0.9	+0.4
Region:															
Northeast	—	1.5	2.8	1.7	1.6	2.0	2.0	0.9	0.4	1.2	1.8	1.5	0.1	1.3	+1.1
Midwest	—	3.0	3.0	2.9	2.4	1.9	3.2	2.4	2.0	2.3	1.8	1.2	0.1	0.7	+0.6
South	—	3.5	2.8	2.9	3.0	3.0	2.5	2.5	2.2	1.5	1.4	1.4	1.4	1.2	-0.3
West	—	2.9	2.5	2.2	2.5	2.1	2.7	1.6	1.2	2.2	1.2	1.0	0.5	1.3	+0.8
Population Density:															
Large MSA	—	2.2	2.3	2.3	1.7	1.5	2.3	1.2	1.1	1.6	1.1	0.8	0.8	0.9	+0.1
Other MSA	—	2.9	3.1	2.8	3.0	3.4	3.0	2.7	1.8	1.9	1.9	1.8	0.8	1.2	+0.4
Non-MSA	—	3.5	2.8	2.4	2.4	1.7	2.3	2.0	1.9	2.0	1.3	0.9	0.2	1.0	+0.7
Parental Education: <sup>b</sup>															
1.0–2.0 (Low)	—	4.8	5.3	2.5	4.2	5.2	6.5	1.9	4.4	4.6	2.3	2.7	0.7	2.3	+1.6
2.5–3.0	—	3.3	4.0	2.8	2.9	2.7	3.1	2.3	2.2	2.2	1.4	1.6	0.8	1.2	+0.4
3.5–4.0	—	3.5	3.3	3.3	2.7	2.7	2.6	2.4	1.7	2.1	0.5	1.5	1.1	1.2	+0.1
4.5–5.0	—	2.4	1.5	1.8	2.1	1.5	2.0	1.8	1.0	1.3	1.4	0.9	0.3	1.2	+0.9 s
5.5–6.0 (High)	—	2.1	1.7	2.1	1.9	1.6	1.2	1.8	0.7	1.4	1.6	0.8	0.6	0.4	-0.2
Race/Ethnicity (2-year average): <sup>c</sup>															
White	—	—	3.0	2.8	2.7	2.5	2.6	2.4	1.9	1.7	1.7	1.4	1.0	0.7	-0.3
African American	—	—	1.0	1.3	1.5	1.6	1.8	1.8	1.8	1.3	1.0	1.1	1.0	1.4	+0.4
Hispanic	—	—	3.8	2.7	2.5	3.3	3.1	2.8	2.1	1.5	1.5	1.3	1.2	1.3	+0.1

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

*Notes.* Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in Table S1.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 65**  
**RITALIN:** <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 10

	Percentage who used in last 12 months														2012– 2013 change
	1991– 2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	—	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	-0.1
Gender:															
Male	—	5.2	4.9	4.2	3.6	3.2	3.7	2.6	3.0	3.8	3.1	2.9	2.8	2.5	-0.3
Female	—	4.3	4.6	3.8	3.0	3.5	3.7	2.9	2.9	3.4	2.1	2.5	1.0	1.2	+0.1
College Plans:															
None or under 4 years	—	7.2	10.2	11.0	5.5	6.7	9.1	6.0	8.6	9.3	6.2	7.3	4.5	3.7	-0.8
Complete 4 years	—	4.3	3.8	2.9	3.0	2.9	2.8	2.3	2.3	3.0	2.2	2.1	1.6	1.6	0.0
Region:															
Northeast	—	5.5	3.6	3.8	4.5	4.1	3.0	2.8	3.3	4.0	2.2	3.5	2.1	1.8	-0.4
Midwest	—	4.6	4.8	4.2	2.7	4.8	4.0	3.6	3.1	4.6	3.2	2.9	2.1	1.9	-0.2
South	—	5.3	5.2	4.2	3.8	3.0	3.4	3.0	3.0	3.5	2.7	2.4	1.9	1.6	-0.3
West	—	3.1	5.1	3.9	2.4	1.4	4.2	1.6	2.4	2.3	2.4	2.1	1.2	1.9	+0.7
Population Density:															
Large MSA	—	4.3	3.6	4.0	2.6	4.0	2.8	2.9	2.0	3.3	3.0	2.8	2.0	1.7	-0.2
Other MSA	—	4.6	5.8	3.7	3.6	3.3	4.1	2.5	3.3	3.6	2.6	2.8	1.7	1.7	0.0
Non-MSA	—	5.8	4.3	5.1	3.7	2.8	3.7	3.0	3.5	4.1	2.3	2.1	2.1	2.1	0.0
Parental Education: <sup>b</sup>															
1.0–2.0 (Low)	—	5.0	7.7	4.2	4.8	3.3	3.9	3.9	2.8	4.1	4.0	3.0	1.2	2.4	+1.2
2.5–3.0	—	5.4	5.9	5.0	3.4	4.4	3.8	3.2	2.9	3.9	2.7	3.3	3.2	3.3	+0.2
3.5–4.0	—	5.0	4.2	4.1	3.0	2.6	3.6	2.7	2.9	3.8	3.1	2.9	1.5	1.6	+0.1
4.5–5.0	—	4.2	3.6	3.7	2.9	4.0	3.4	2.6	3.4	3.3	1.4	1.9	1.7	1.5	-0.2
5.5–6.0 (High)	—	4.6	4.7	3.3	3.7	2.8	4.0	2.2	2.8	3.8	3.3	2.2	1.8	0.7	-1.0
Race/Ethnicity (2-year average): <sup>c</sup>															
White	—	—	5.5	4.8	4.1	3.9	3.9	3.7	3.5	3.8	3.4	2.9	2.6	2.0	-0.5
African American	—	—	1.8	2.5	1.9	1.0	1.5	1.7	1.4	1.2	2.0	2.2	1.1	1.2	+0.1
Hispanic	—	—	3.1	4.4	3.6	2.2	2.1	1.9	1.6	2.3	2.8	2.6	2.2	1.7	-0.5

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms;  $N$  is one third of  $N$  indicated in Table S2.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 66**  
**RITALIN:** <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 12

	Percentage who used in last 12 months														2012– 2013 change
	1975– 2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
Total	—	5.1	4.0	4.0	5.1	4.4	4.4	3.8	3.4	2.1	2.7	2.6	2.6	2.3	-0.3
Gender:															
Male	—	6.0	5.1	5.5	6.0	5.4	4.5	3.6	3.7	3.2	3.5	2.7	2.7	2.9	+0.2
Female	—	4.1	2.8	2.6	4.0	3.3	3.8	3.5	2.9	1.1	1.7	2.3	1.9	1.6	-0.3
College Plans:															
None or under 4 years	—	6.4	7.7	4.4	6.8	5.3	5.3	5.6	4.2	3.2	5.4	3.1	2.9	4.1	+1.2
Complete 4 years	—	4.7	3.0	3.7	4.4	4.1	4.0	3.3	3.2	1.8	2.1	2.5	2.3	1.9	-0.4
Region:															
Northeast	—	4.7	4.5	4.6	4.1	4.7	6.1	4.1	4.2	1.3	3.5	2.1	2.5	2.0	-0.5
Midwest	—	7.4	5.4	3.8	6.0	5.3	3.8	5.2	3.4	3.0	2.9	3.0	2.4	2.0	-0.3
South	—	4.1	3.4	3.5	4.7	4.6	4.3	3.0	3.4	2.1	2.1	2.7	2.8	2.3	-0.5
West	—	3.8	2.6	4.4	5.5	2.7	3.8	3.5	2.8	1.7	2.8	2.2	2.5	2.8	+0.3
Population Density:															
Large MSA	—	7.2	3.9	3.2	4.2	4.1	5.4	4.0	4.1	2.4	2.7	2.2	2.4	1.9	-0.6
Other MSA	—	3.7	4.0	5.1	5.6	5.1	3.9	3.4	3.5	2.2	2.8	2.6	2.4	2.5	+0.1
Non-MSA	—	5.4	4.0	2.9	4.9	3.4	3.8	4.2	2.4	1.5	2.2	3.1	3.1	2.4	-0.7
Parental Education: <sup>b</sup>															
1.0–2.0 (Low)	—	5.6	5.3	3.1	5.2	5.5	5.2	2.1	2.0	2.6	2.9	1.9	4.1	2.3	-1.8
2.5–3.0	—	4.5	4.2	3.7	4.2	4.2	3.6	4.1	3.4	3.3	3.0	2.5	2.5	2.1	-0.4
3.5–4.0	—	5.0	3.9	4.8	6.3	4.1	4.6	3.5	3.6	1.3	2.6	2.7	2.7	2.6	-0.1
4.5–5.0	—	4.7	3.5	3.5	4.6	3.9	4.7	4.7	3.1	1.9	2.2	2.0	2.1	2.3	+0.2
5.5–6.0 (High)	—	6.6	3.9	4.0	4.5	6.0	4.6	2.7	4.5	1.7	2.4	3.3	2.0	1.3	-0.7
Race/Ethnicity (2-year average): <sup>c</sup>															
White	—	—	5.4	4.6	5.2	5.3	4.9	4.9	4.3	3.1	2.6	2.7	2.6	2.3	-0.3
African American	—	—	0.8	1.2	1.2	2.0	2.3	1.8	1.5	1.5	2.1	1.9	1.6	2.3	+0.7
Hispanic	—	—	3.1	3.3	3.6	3.6	3.9	2.7	1.5	1.9	2.1	2.3	2.7	2.3	-0.4

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms;  $N$  is two sixths of  $N$  indicated in Table S3.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 67**  
**ADDERALL: <sup>a</sup> Trends in Annual Prevalence of Use**  
**by Subgroups in Grades 8, 10, and 12**

Percentage who used in last 12 months

	8th Graders						10th Graders						12th Graders						
	2009	2010	2011	2012	2013	2012–2013 change	2009	2010	2011	2012	2013	2012–2013 change	2009	2010	2011	2012	2013	2012–2013 change	
<i>Approximate weighted N =</i>	15,000	15,300	16,000	15,100	14,600		15,900	15,200	14,900	15,000	12,900		13,700	14,400	14,100	13,700	12,600		
Total	2.0	2.3	1.7	1.7	1.8	+0.1	5.7	5.3	4.6	4.5	4.4	-0.1	5.4	6.5	6.5	7.6	7.4	-0.3	
Gender:																			
Male	2.8	2.5	1.5	1.3	1.6	+0.3	6.1	5.5	5.4	5.0	5.2	+0.3	7.4	7.5	7.4	8.0	8.7	+0.7	
Female	1.3	2.1	1.7	1.9	1.9	+0.1	5.3	4.9	3.8	4.1	3.7	-0.5	3.8	5.5	5.5	6.9	6.0	-0.9	
College Plans:																			
None or under 4 years	6.1	5.4	5.1	4.2	7.4	+3.2	15.1	10.6	11.5	9.3	8.1	-1.2	7.0	10.9	7.5	7.8	9.2	+1.4	
Complete 4 years	1.7	2.0	1.4	1.5	1.4	-0.1	4.8	4.6	3.7	4.0	4.0	0.0	5.0	5.7	6.4	7.4	6.8	-0.6	
Region:																			
Northeast	1.0	1.5	1.4	1.0	2.2	+1.2	4.2	4.1	4.9	4.0	5.4	+1.4	5.1	7.7	7.2	7.6	5.2	-2.5	
Midwest	2.3	3.1	2.3	1.0	0.8	-0.1	8.4	7.6	6.3	5.3	5.8	+0.5	7.9	7.3	7.7	10.1	8.7	-1.4	
South	2.3	2.3	1.7	2.6	2.1	-0.5	6.5	5.2	4.6	5.5	4.1	-1.5	5.1	6.2	6.3	6.4	8.3	+1.8	
West	1.8	1.9	1.2	1.3	2.0	+0.7	3.4	3.7	2.3	2.5	2.9	+0.3	3.2	5.3	5.3	6.6	6.3	-0.3	
Population Density:																			
Large MSA	1.9	1.7	0.7	2.1	1.5	-0.6	6.2	6.0	4.8	3.7	4.3	+0.7	5.9	7.0	4.7	9.1	7.2	-1.8	
Other MSA	2.0	2.8	2.5	1.4	1.7	+0.3	5.9	5.0	4.1	4.4	4.7	+0.2	5.5	6.5	7.9	7.4	8.1	+0.8	
Non-MSA	2.0	2.0	1.5	1.5	2.3	+0.8	4.8	4.8	5.1	5.7	4.0	-1.7	4.5	6.0	6.1	6.2	5.7	-0.5	
Parental Education: <sup>b</sup>																			
1.0–2.0 (Low)	5.3	3.5	3.7	1.1	2.2	+1.1	7.9	6.7	4.7	5.4	4.2	-1.3	4.0	5.2	5.6	5.8	7.0	+1.3	
2.5–3.0	1.8	2.5	2.6	1.9	2.1	+0.2	6.6	6.0	5.4	6.3	5.2	-1.1	5.7	6.0	7.2	6.3	5.7	-0.6	
3.5–4.0	2.9	2.0	1.6	1.5	2.3	+0.8	5.4	6.2	4.9	4.8	4.5	-0.3	6.1	6.7	5.9	8.4	8.4	0.0	
4.5–5.0	1.4	2.4	1.3	1.4	1.8	+0.5	4.9	3.8	4.5	4.1	4.7	+0.6	5.5	7.0	7.1	9.4	7.7	-1.7	
5.5–6.0 (High)	1.1	1.2	0.7	1.7	0.6	-1.1	6.7	4.6	3.2	2.9	3.2	+0.3	4.7	7.0	6.2	6.6	8.6	+1.9	
Race/Ethnicity (2-year average): <sup>c</sup>																			
White	—	2.4	2.1	1.7	1.4	-0.3	—	6.6	5.7	5.3	5.6	+0.4	—	7.5	8.1	8.8	9.1	+0.3	
African American	—	1.2	1.5	1.4	1.6	+0.2	—	2.2	2.7	1.7	2.0	+0.3	—	2.9	2.2	2.1	3.6	+1.5	
Hispanic	—	1.9	1.9	1.7	1.8	+0.2	—	4.2	3.9	3.8	2.5	-1.3	—	3.1	2.9	3.7	4.8	+1.1	

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

*Notes.* ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Tables D-S1 through D-S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data for 8th and 10th graders based on one of four forms; *N* is one third of *N* indicated in Tables D-S1 and D-S2. Data for 12th graders based on two of six forms; *N* is two sixths of *N* indicated in Table S3.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 68**  
**PROVIGIL:** <sup>a</sup> Trends in Annual Prevalence of Use  
by Subgroups in Grade 12

	Percentage who used in last 12 months					2012– 2013 change
	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	
<i>Approximate weighted N =</i>	13,700	14,400	14,100	—	—	
Total	1.8	1.3	1.5	—	—	—
Gender:						
Male	2.3	1.8	1.4	—	—	—
Female	1.3	0.6	1.3	—	—	—
College Plans:						
None or under 4 years	4.0	4.0	2.5	—	—	—
Complete 4 years	1.3	0.8	1.1	—	—	—
Region:						
Northeast	1.9	1.7	2.0	—	—	—
Midwest	2.0	1.7	1.0	—	—	—
South	1.9	1.2	1.7	—	—	—
West	1.4	0.9	1.2	—	—	—
Population Density:						
Large MSA	1.9	1.0	1.4	—	—	—
Other MSA	1.7	1.5	1.3	—	—	—
Non-MSA	2.0	1.6	1.8	—	—	—
Parental Education: <sup>b</sup>						
1.0–2.0 (Low)	3.8	1.7	2.4	—	—	—
2.5–3.0	2.0	1.6	2.0	—	—	—
3.5–4.0	1.7	1.2	1.6	—	—	—
4.5–5.0	1.2	0.8	0.5	—	—	—
5.5–6.0 (High)	1.1	1.8	0.9	—	—	—
Race/Ethnicity (2-year data): <sup>c</sup>						
White	—	1.5	1.3	—	—	—
African American	—	1.5	1.5	—	—	—
Hispanic	—	1.5	1.2	—	—	—

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

*Notes.* '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on two of six forms; *N* is two sixths of *N* indicated in Table S3.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education.

See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 69**  
**METHAMPHETAMINE: Trends in Annual Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 12 months															2012– 2013 change	
	1991– 1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		2013
<i>Approximate weighted N =</i>	—	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	—	3.2	2.5	2.8	2.2	2.5	1.5	1.8	1.8	1.1	1.2	1.0	1.2	0.8	1.0	1.0	0.0
Gender:																	
Male	—	3.1	2.2	2.5	2.0	2.0	1.1	1.7	1.4	0.7	0.9	1.0	1.3	0.5	0.8	0.7	-0.1
Female	—	3.2	2.8	3.0	2.4	3.0	1.7	1.9	2.3	1.5	1.5	1.0	1.1	1.0	1.1	1.0	-0.1
College Plans:																	
None or under 4 years	—	7.4	6.8	6.6	6.6	7.9	6.6	6.8	6.3	3.2	3.8	3.1	2.7	3.6	5.0	4.4	-0.7
Complete 4 years	—	2.7	2.0	2.3	1.7	2.0	1.0	1.2	1.3	0.9	1.0	0.9	1.1	0.6	0.7	0.7	0.0
Region:																	
Northeast	—	1.6	2.0	1.2	0.8	1.7	1.0	0.6	0.7	0.5	0.8	0.3	0.6	0.6	0.8	0.4	-0.4
Midwest	—	4.4	3.0	3.2	2.5	3.5	2.1	2.0	1.7	1.5	1.6	0.9	1.6	0.5	0.3	0.7	+0.4
South	—	3.4	2.4	3.4	2.8	2.4	1.4	2.0	1.6	1.1	1.4	1.1	1.0	0.9	1.2	1.0	-0.2
West	—	2.8	2.5	2.4	2.0	2.4	1.6	2.1	3.1	1.2	1.0	1.4	1.6	1.1	1.4	1.5	+0.1
Population Density:																	
Large MSA	—	2.2	2.1	1.6	1.3	2.0	1.5	1.3	1.5	0.4	0.7	1.1	0.9	0.6	0.9	1.5	+0.5
Other MSA	—	3.6	2.6	3.4	2.5	2.4	1.7	2.0	2.1	1.4	1.5	1.0	1.3	1.2	1.2	0.6	-0.5
Non-MSA	—	3.5	3.0	2.8	2.7	3.4	1.2	2.1	1.8	1.6	1.4	0.9	1.3	0.3	0.7	0.9	+0.2
Parental Education: <sup>a</sup>																	
1.0–2.0 (Low)	—	6.3	5.0	4.4	4.3	4.2	4.4	4.1	3.9	1.9	2.1	1.7	2.2	3.1	1.5	2.1	+0.6
2.5–3.0	—	4.3	3.1	4.0	3.0	3.4	1.3	1.5	1.8	1.4	1.7	0.9	1.0	1.5	1.3	0.7	-0.5
3.5–4.0	—	3.3	2.4	3.0	2.0	2.5	1.8	2.9	2.2	1.2	1.3	1.1	1.3	0.5	1.4	0.7	-0.7
4.5–5.0	—	1.9	1.3	1.6	1.9	1.6	1.0	0.9	1.2	0.9	0.9	0.6	1.1	0.4	0.6	0.7	+0.2
5.5–6.0 (High)	—	3.2	2.2	1.2	1.1	2.3	0.9	0.7	1.7	0.8	1.1	1.6	1.1	0.4	0.7	0.8	+0.1
Race/Ethnicity (2-year average): <sup>b</sup>																	
White	—	—	3.2	3.1	2.8	2.7	2.2	1.6	1.6	1.4	1.1	1.0	1.0	0.8	0.7	0.7	0.0
African American	—	—	1.1	0.8	0.6	0.8	0.6	0.5	0.8	0.6	0.5	0.7	0.5	0.6	0.6	0.4	-0.3
Hispanic	—	—	4.0	3.3	3.2	3.2	3.0	2.8	2.8	2.3	1.7	1.5	1.8	1.9	1.5	1.5	+0.1

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms;  $N$  is one third of  $N$  indicated in Table S1.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.



**TABLE 70**  
**METHAMPHETAMINE: Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months																2012– 2013 change
	1991– 1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	14,000	13,600	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	—	4.6	4.0	3.7	3.9	3.3	3.0	2.9	1.8	1.6	1.5	1.6	1.6	1.4	1.0	1.0	0.0
Gender:																	
Male	—	4.5	4.5	3.8	3.9	3.0	2.7	2.6	1.7	1.4	1.4	1.4	1.5	1.3	1.1	1.0	-0.1
Female	—	4.7	3.6	3.5	3.6	3.7	3.3	3.0	2.0	1.8	1.6	1.7	1.8	1.4	0.9	0.8	-0.1
College Plans:																	
None or under 4 years	—	9.1	8.8	7.0	9.1	9.4	6.0	7.3	5.8	3.9	3.6	4.6	4.8	4.6	4.1	2.4	-1.8
Complete 4 years	—	3.9	3.3	3.1	3.0	2.3	2.6	2.2	1.3	1.2	1.2	1.3	1.2	1.0	0.7	0.9	+0.2
Region:																	
Northeast	—	5.1	4.1	2.3	1.5	2.1	2.5	3.0	1.5	1.4	0.5	1.3	1.4	2.0	1.0	0.4	-0.6
Midwest	—	4.6	4.0	3.8	3.0	3.4	2.2	3.4	1.7	0.9	1.4	1.8	1.1	0.9	0.5	0.7	+0.2
South	—	4.0	3.8	4.0	4.6	3.8	2.9	2.2	2.3	1.9	1.9	1.4	1.5	1.4	1.0	0.9	-0.1
West	—	5.1	4.4	4.6	5.8	3.8	4.7	3.0	1.7	2.3	1.8	2.1	2.6	1.4	1.4	1.9	+0.5
Population Density:																	
Large MSA	—	3.8	4.4	4.0	3.1	2.3	2.7	2.9	2.2	1.7	1.2	1.5	1.5	1.0	1.1	1.0	-0.1
Other MSA	—	4.8	3.4	3.6	4.4	3.8	3.4	3.0	1.5	1.5	1.8	1.6	1.9	1.7	0.6	1.2	+0.6
Non-MSA	—	5.2	4.8	3.6	3.7	3.7	2.5	2.5	2.1	1.8	1.3	1.6	1.3	1.4	1.7	0.6	-1.1 s
Parental Education: <sup>a</sup>																	
1.0–2.0 (Low)	—	7.2	7.0	5.6	6.2	7.3	4.5	4.2	3.8	3.8	2.6	3.7	3.4	2.9	2.5	1.9	-0.6
2.5–3.0	—	4.2	4.3	4.6	4.9	4.1	3.7	3.8	2.7	1.6	2.3	2.7	2.3	1.2	1.7	1.4	-0.2
3.5–4.0	—	4.8	4.3	3.2	3.7	3.2	3.3	2.0	1.4	1.7	1.0	1.4	1.9	1.3	0.7	1.0	+0.3
4.5–5.0	—	4.8	3.5	3.6	2.4	2.2	2.3	3.2	1.4	1.0	1.6	0.7	0.8	1.3	0.8	0.3	-0.5
5.5–6.0 (High)	—	3.3	3.5	2.5	4.0	2.1	1.7	1.3	1.3	1.0	0.6	0.7	0.8	1.0	0.3	1.2	+0.9
Race/Ethnicity (2-year average): <sup>b</sup>																	
White	—	—	4.7	4.1	4.1	4.2	3.4	2.9	2.4	1.8	1.6	1.4	1.5	1.5	1.2	0.9	-0.3
African American	—	—	0.4	1.0	1.1	0.6	0.8	1.1	1.0	0.8	0.5	0.4	0.6	0.7	0.3	0.3	0.0
Hispanic	—	—	3.9	3.0	4.4	4.6	4.6	5.0	3.3	1.9	2.3	2.7	2.5	1.9	1.8	2.1	+0.3

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

*Notes.* Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; *N* is one third of *N* indicated in Table S2.

**Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.**

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 71**  
**METHAMPHETAMINE: Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																2012– 2013 change
	1975– 1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
Total	—	4.7	4.3	3.9	3.6	3.2	3.4	2.5	2.5	1.7	1.2	1.2	1.0	1.4	1.1	0.9	-0.2
Gender:																	
Male	—	5.0	4.4	4.3	4.3	3.6	3.7	2.7	2.0	1.8	1.8	1.3	1.5	1.6	1.2	1.3	+0.2
Female	—	4.5	4.2	3.4	3.0	2.9	3.1	2.3	3.0	1.6	0.7	1.0	0.5	1.1	0.9	0.4	-0.5
College Plans:																	
None or under 4 years	—	6.8	6.2	6.9	6.5	5.8	6.7	4.9	3.7	3.9	1.9	3.1	1.8	1.9	2.3	1.6	-0.6
Complete 4 years	—	4.0	3.8	3.2	2.7	2.4	2.4	2.0	2.1	1.2	1.0	0.8	0.8	1.3	0.8	0.6	-0.2
Region:																	
Northeast	—	3.1	4.5	3.4	1.6	1.8	1.3	0.6	1.4	1.4	1.1	1.0	1.2	2.1	0.5	1.3	+0.7
Midwest	—	5.1	4.1	4.7	4.5	4.2	3.3	4.4	1.2	1.2	0.8	1.2	1.1	1.2	0.9	0.8	-0.1
South	—	3.9	3.7	3.4	3.0	2.8	4.0	2.2	3.1	2.1	1.2	1.4	0.9	1.1	0.9	0.5	-0.4
West	—	7.1	5.4	4.4	5.4	4.0	4.9	2.7	3.8	1.5	1.9	1.0	1.2	1.5	1.8	1.4	-0.4
Population Density:																	
Large MSA	—	4.2	3.6	2.7	2.1	1.8	2.8	1.5	3.4	1.3	1.3	1.1	1.0	0.9	1.2	0.8	-0.4
Other MSA	—	4.0	4.9	4.0	4.4	3.0	2.6	2.4	2.0	1.7	1.2	1.1	1.1	2.0	1.2	0.9	-0.3
Non-MSA	—	6.4	4.3	5.3	4.1	5.3	5.5	4.1	2.0	2.2	1.3	1.4	1.0	0.6	0.5	1.2	+0.7
Parental Education: <sup>a</sup>																	
1.0–2.0 (Low)	—	6.0	7.7	5.0	3.5	4.3	5.5	4.0	2.7	3.1	1.6	3.5	2.0	3.1	1.4	1.4	+0.1
2.5–3.0	—	4.8	3.5	4.8	4.9	3.6	4.1	3.0	2.4	2.2	0.6	1.4	1.1	1.0	0.6	1.2	+0.6
3.5–4.0	—	5.2	3.9	3.8	3.8	3.6	3.1	3.0	2.9	1.4	1.3	0.8	0.9	1.2	1.3	0.6	-0.7
4.5–5.0	—	3.7	4.2	3.1	2.9	2.9	2.8	2.1	2.2	1.7	0.8	1.0	1.0	1.2	1.2	0.7	-0.5
5.5–6.0 (High)	—	4.2	5.5	3.2	3.1	1.0	3.0	1.2	1.2	0.8	1.6	0.4	0.4	1.3	0.7	0.9	+0.2
Race/Ethnicity (2-year average): <sup>b</sup>																	
White	—	—	4.9	4.6	4.2	3.5	3.5	3.3	2.6	2.1	1.5	1.1	1.1	1.3	1.2	0.9	-0.4
African American	—	—	1.1	1.0	0.5	1.4	1.8	0.7	0.4	0.7	1.1	1.1	0.5	0.4	0.5	0.4	0.0
Hispanic	—	—	4.9	4.6	3.9	3.4	3.4	3.4	3.7	2.7	1.1	1.2	1.1	1.2	1.2	1.2	+0.1

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms;  $N$  is two sixths of  $N$  indicated in Table S3.

**Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.**

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates.

See appendix B for details on how race/ethnicity is defined.

**TABLE 72**  
**CRYSTAL METHAMPHETAMINE (ICE): Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																							2012–2013			
	1975–1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	change	
<i>Approximate weighted N =</i>	—	15,200	15,000	15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	—	1.3	1.4	1.3	1.7	1.8	2.4	2.8	2.3	3.0	1.9	2.2	2.5	3.1	2.0	2.1	2.3	1.9	1.6	1.1	0.9	0.9	1.2	0.8	1.1	+0.3	
Gender:																											
Male	—	1.5	1.9	1.5	1.9	2.2	2.6	3.9	2.6	3.9	2.2	2.5	2.7	3.5	2.5	2.6	2.5	1.5	1.8	1.4	1.1	1.1	1.0	1.0	1.3	+0.3	
Female	—	1.0	0.9	1.0	1.2	1.3	2.1	1.7	2.1	2.1	1.6	1.9	2.1	2.5	1.5	1.6	2.0	2.2	1.4	0.7	0.8	0.6	1.1	0.7	0.8	+0.1	
College Plans:																											
None or under 4 years	—	1.4	1.9	2.2	2.6	2.4	4.3	5.1	3.8	5.0	2.3	3.8	4.2	4.8	2.6	4.4	4.2	3.5	3.7	1.7	1.8	2.1	2.9	1.9	2.4	+0.5	
Complete 4 years	—	1.2	1.2	1.0	1.4	1.5	1.8	2.1	1.9	2.4	1.8	1.7	2.0	2.6	1.9	1.5	1.8	1.3	1.2	0.8	0.7	0.6	0.9	0.5	0.8	+0.3	
Region:																											
Northeast	—	1.6	1.1	0.9	1.1	0.9	1.4	3.2	2.8	2.6	1.0	1.0	1.9	2.6	1.3	0.9	1.2	1.0	1.1	1.4	0.5	0.6	0.4	0.9	1.0	+0.1	
Midwest	—	1.1	1.4	1.1	1.5	2.3	2.2	2.1	1.9	2.7	1.7	2.8	2.1	2.0	1.0	1.8	2.2	1.0	1.5	0.5	1.0	0.9	0.8	1.0	0.6	-0.4	
South	—	0.5	1.0	1.0	1.2	1.2	1.8	2.0	1.6	3.1	2.3	2.0	1.7	3.5	2.3	2.3	2.7	2.9	1.7	0.9	0.8	0.9	1.4	0.6	1.1	+0.5	
West	—	2.5	2.2	2.6	3.2	2.8	4.7	4.9	3.7	3.4	2.5	2.9	4.7	4.0	3.4	3.5	3.1	1.9	2.1	1.7	1.5	1.2	1.8	0.9	1.6	+0.7	
Population Density:																											
Large MSA	—	1.2	1.3	1.5	2.2	2.0	3.0	4.6	2.9	2.5	1.6	2.3	2.7	2.2	1.9	2.3	2.1	2.2	1.3	0.6	0.9	0.9	1.1	1.2	1.3	+0.1	
Other MSA	—	1.3	1.7	1.3	1.7	1.8	2.0	2.0	2.0	3.3	2.1	1.7	2.3	3.6	2.0	1.4	2.3	1.5	1.7	1.2	0.8	0.9	1.3	0.7	1.2	+0.5	
Non-MSA	—	1.2	0.8	1.2	1.2	1.6	2.3	2.6	2.1	2.8	2.0	3.0	2.5	3.2	2.1	3.2	2.7	2.1	1.9	1.3	1.3	1.1	1.0	0.7	0.7	0.0	
Parental Education: <sup>a</sup>																											
1.0–2.0 (Low)	—	1.1	1.0	0.9	1.6	1.0	3.2	3.4	2.2	2.8	3.6	3.2	5.9	3.7	3.7	4.0	2.6	4.2	3.2	1.4	2.8	1.9	3.6	1.1	3.8	+2.7 s	
2.5–3.0	—	1.4	1.1	1.1	1.2	3.0	2.6	3.0	2.5	3.2	1.3	1.7	2.4	3.6	1.7	2.7	2.6	2.6	2.1	0.6	0.8	1.6	0.3	1.6	1.3	-0.3	
3.5–4.0	—	1.4	1.2	1.5	2.3	1.6	1.9	2.6	2.2	3.6	2.5	1.9	2.8	2.4	2.2	2.4	3.1	1.4	1.4	1.0	1.2	0.4	1.5	0.6	0.9	+0.3	
4.5–5.0	—	1.2	1.8	1.4	1.8	1.3	2.5	2.9	2.9	2.6	1.3	2.8	1.5	2.8	1.5	1.0	1.4	1.0	1.5	0.7	0.3	0.5	0.5	0.4	0.4	-0.1	
5.5–6.0 (High)	—	1.1	1.0	1.4	1.3	1.0	2.2	2.5	1.4	1.9	2.1	1.3	2.0	2.8	1.8	0.9	1.1	1.4	0.8	1.2	0.6	0.7	1.3	0.2	0.4	+0.2	
Race/Ethnicity (2-year average): <sup>b</sup>																											
White	—	—	1.3	1.3	1.5	1.7	2.0	2.5	2.6	2.9	2.8	2.3	2.4	2.6	2.3	2.0	2.0	1.9	1.7	1.3	0.7	0.5	0.6	0.7	0.6	0.0	
African American	—	—	0.8	1.0	0.8	0.5	0.5	0.3	0.5	1.0	0.7	0.7	1.1	1.6	1.4	0.7	1.0	1.0	0.6	0.6	0.7	0.9	1.1	0.8	1.0	+0.2	
Hispanic	—	—	1.3	1.8	2.3	2.1	2.7	4.0	2.8	1.7	1.7	2.4	3.4	3.6	2.5	2.6	3.4	3.3	2.9	1.8	1.4	1.7	2.4	2.1	1.4	-0.7	

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms; N is two sixths of N indicated in Table S3.

**Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.**

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 73**  
**BATH SALTS (SYNTHETIC STIMULANTS): Trends in Annual Prevalence of Use**  
**by Subgroups in Grades 8, 10, and 12**

	Percentage who used in last 12 months											
	8th Graders				10th Graders				12th Graders			
	1991– 2011	2012 2012	2013 2013	2012– 2013 change	1991– 2011	2012 2012	2013 2013	2012– 2013 change	1991– 2011	2012 2012	2013 2013	2012– 2013 change
<i>Approximate weighted N =</i>	—	15,100	14,600		—	15,000	12,900		—	13,700	12,600	
Total	—	0.8	1.0	+0.1	—	0.6	0.9	+0.3	—	1.3	0.9	-0.4
Gender:												
Male	—	0.6	1.1	+0.5	—	0.9	1.3	+0.4	—	1.2	1.0	-0.3
Female	—	0.9	0.9	0.0	—	0.4	0.6	+0.1	—	1.1	0.6	-0.5
College Plans:												
None or under 4 years	—	3.6	3.1	-0.5	—	1.9	3.7	+1.8	—	1.8	1.8	+0.1
Complete 4 years	—	0.6	0.8	+0.2	—	0.5	0.6	+0.1	—	1.1	0.6	-0.5
Region:												
Northeast	—	0.3	0.7	+0.4	—	0.7	1.4	+0.7	—	1.2	0.7	-0.5
Midwest	—	0.5	0.6	+0.1	—	0.8	0.8	+0.1	—	1.3	1.0	-0.3
South	—	1.3	1.0	-0.3	—	0.5	0.8	+0.3	—	1.7	1.0	-0.7
West	—	0.7	1.5	+0.8	—	0.6	0.9	+0.4	—	1.0	0.8	-0.2
Population Density:												
Large MSA	—	1.0	1.4	+0.3	—	1.0	0.7	-0.3	—	1.3	0.9	-0.4
Other MSA	—	0.7	0.8	0.0	—	0.3	0.8	+0.5	—	1.4	0.7	-0.7
Non-MSA	—	0.8	0.8	0.0	—	0.8	1.7	+0.9	—	1.2	1.3	+0.1
Parental Education: <sup>a</sup>												
1.0–2.0 (Low)	—	0.9	2.7	+1.8	—	0.7	0.4	-0.4	—	2.1	1.7	-0.3
2.5–3.0	—	0.6	0.6	0.0	—	0.9	2.0	+1.1	—	1.7	0.9	-0.9
3.5–4.0	—	0.8	0.8	0.0	—	0.4	0.6	+0.2	—	0.8	1.0	+0.2
4.5–5.0	—	0.6	1.0	+0.4	—	0.7	0.4	-0.3	—	1.2	0.6	-0.6
5.5–6.0 (High)	—	0.8	0.4	-0.4	—	0.2	1.1	+0.9	—	1.3	0.2	-1.1
Race/Ethnicity (2-year data): <sup>b</sup>												
White	—	—	0.5	—	—	—	0.7	—	—	—	1.0	—
African American	—	—	1.3	—	—	—	0.8	—	—	—	1.6	—
Hispanic	—	—	1.7	—	—	—	0.7	—	—	—	1.2	—

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

*Notes.* '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Tables S1, S2, and S3 for the number of subgroup cases. See appendix B for definition of variables in table. For 8th and 10th graders only: Data based on one of four forms; N is one third of N indicated in S1 and S2. For 12th graders only: Data based on two of six forms; N is two sixths of N indicated in Table S3

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 74**  
**SEDATIVES (BARBITURATES):<sup>a,b</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																				→ (Years cont.)
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	
<i>Approximate weighted N =</i>	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
Total	10.7	9.6	9.3	8.1	7.5	6.8	6.6	5.5	5.2	4.9	4.6	4.2	3.6	3.2	3.3	3.4	3.4	2.8	3.4	4.1	
Gender:																					
Male	12.3	9.9	10.2	8.4	7.6	7.3	7.2	5.9	5.9	5.5	5.2	4.7	4.0	3.4	3.5	3.8	3.4	2.9	3.4	4.3	
Female	9.9	9.2	8.4	7.7	7.0	6.0	5.8	5.0	4.2	4.0	3.9	3.8	3.2	3.0	3.0	3.0	3.2	2.6	3.3	3.8	
College Plans:																					
None or under 4 years	—	11.6	11.4	9.1	9.3	9.0	8.1	7.4	6.7	6.2	6.2	6.1	4.7	4.1	4.8	4.7	4.3	3.9	3.8	5.4	
Complete 4 years	—	7.3	6.8	6.8	5.2	4.8	5.1	3.8	3.8	3.7	3.6	3.0	3.0	2.7	2.5	2.8	2.9	2.3	3.2	3.7	
Region:																					
Northeast	11.5	10.4	9.2	9.6	9.6	6.9	6.8	5.6	4.7	5.1	5.3	5.2	4.2	2.5	3.2	2.9	2.8	2.7	3.5	4.0	
Midwest	12.8	10.4	10.7	7.9	6.9	7.3	7.5	5.4	6.1	4.9	4.9	4.2	3.3	2.5	3.2	3.5	3.5	2.7	3.5	4.1	
South	9.9	9.7	9.3	7.8	7.3	7.0	5.5	6.3	5.2	5.2	4.2	4.1	3.7	4.1	3.7	4.0	3.6	3.0	3.6	4.8	
West	10.0	6.7	6.6	6.6	5.7	5.2	6.5	3.9	4.0	4.2	4.1	3.3	3.2	3.2	2.7	2.9	3.3	2.5	2.7	2.8	
Population Density:																					
Large MSA	11.1	10.2	8.1	8.1	8.3	6.6	6.9	5.3	5.2	4.4	4.4	3.7	3.3	2.8	2.6	2.6	2.4	2.4	2.6	3.6	
Other MSA	11.3	9.8	9.9	8.2	7.3	6.5	6.4	5.7	5.3	4.9	4.2	4.4	3.6	3.4	3.1	3.6	3.9	2.6	3.1	4.3	
Non-MSA	9.8	9.0	9.5	8.1	7.0	7.2	6.6	5.5	5.0	5.5	5.4	4.5	3.9	3.2	4.4	3.9	3.3	3.4	4.3	4.1	
Parental Education: <sup>c</sup>																					
1.0–2.0 (Low)	10.3	9.1	8.0	7.5	7.8	8.0	6.5	5.8	6.1	4.7	5.0	4.8	3.8	4.3	4.1	3.1	3.6	3.9	3.8	4.5	
2.5–3.0	10.3	10.2	10.3	8.2	7.3	7.2	6.5	5.7	5.7	5.2	5.3	4.6	3.6	3.1	3.4	3.7	3.7	2.4	3.6	4.5	
3.5–4.0	9.5	9.6	9.0	8.3	7.4	6.3	6.5	5.1	4.6	5.0	4.4	4.4	3.2	2.9	3.2	3.9	3.0	2.8	2.8	4.0	
4.5–5.0	10.7	10.1	9.1	7.8	6.6	5.9	6.4	5.0	4.4	4.3	4.1	3.3	3.9	3.3	2.8	3.1	3.3	2.9	3.4	4.0	
5.5–6.0 (High)	9.0	10.3	8.3	8.0	7.2	5.4	6.8	5.8	3.7	4.0	3.1	3.4	3.6	3.1	3.4	2.9	3.6	2.4	3.8	3.6	
Race/Ethnicity (2-year average): <sup>d</sup>																					
White	—	—	10.2	9.3	8.2	7.5	7.2	6.5	5.8	5.5	5.1	4.7	4.2	3.7	3.5	3.7	3.8	3.5	3.6	4.3	
African American	—	—	3.3	3.2	2.6	2.5	2.4	2.0	1.7	1.6	1.6	1.6	1.7	1.5	1.1	1.1	1.2	1.1	1.0	1.5	
Hispanic	—	—	7.4	5.8	5.8	5.8	5.7	5.1	4.1	4.4	4.6	3.6	2.8	2.8	3.2	2.8	2.4	2.2	1.9	2.6	

(Table continued on next page.)

**TABLE 74 (cont.)**  
**SEDATIVES (BARBITURATES):<sup>a,b</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			2012– 2013 change	
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013 <sup>e</sup>		
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	4.7	4.9	5.1	5.5	5.8	6.2	5.7	6.7	6.0	6.5	7.2	6.6	6.2	5.8	5.2	4.8	4.3	4.5	4.8	+0.3	
Gender:																					
Male	5.1	5.2	5.3	6.3	6.3	6.9	6.3	7.4	6.7	7.0	7.7	6.4	6.3	5.9	5.6	4.8	4.2	4.2	4.7	+0.4	
Female	4.2	4.4	4.8	4.8	5.3	5.4	5.1	5.9	5.4	6.0	6.6	6.7	6.2	5.7	4.9	4.6	4.4	4.7	4.9	+0.2	
College Plans:																					
None or under 4 years	5.9	6.7	6.6	6.9	7.0	7.0	7.1	9.8	9.6	9.3	10.7	10.0	8.2	8.9	7.6	6.7	7.5	5.1	6.1	+1.0	
Complete 4 years	4.4	4.3	4.6	5.1	5.5	6.0	5.4	6.0	5.1	5.6	6.3	5.7	5.7	5.2	4.7	4.3	3.7	4.3	4.4	+0.1	
Region:																					
Northeast	4.1	5.6	5.7	5.5	4.7	5.6	5.3	5.9	4.8	5.4	5.7	5.7	5.5	5.1	4.3	4.2	3.4	4.1	3.9	-0.2	
Midwest	4.5	4.9	4.4	4.8	6.0	5.2	5.6	6.4	5.1	5.9	7.5	6.2	5.9	5.7	6.5	5.3	4.7	4.4	4.7	+0.3	
South	5.3	5.4	5.8	6.8	6.8	7.5	6.1	8.4	7.1	7.8	8.5	7.5	7.2	6.8	5.6	5.3	4.2	4.4	5.5	+1.1	
West	4.3	3.3	4.2	4.2	4.9	5.7	5.6	5.1	6.5	6.3	5.9	6.2	5.4	5.0	4.0	4.2	4.7	5.0	4.5	-0.5	
Population Density:																					
Large MSA	4.1	3.6	4.2	4.6	3.7	5.1	5.9	6.5	4.2	5.5	6.1	6.6	5.7	4.3	4.5	4.1	3.4	4.3	4.7	+0.4	
Other MSA	4.9	5.4	5.0	5.6	6.2	6.6	6.1	6.7	6.6	7.1	7.5	6.6	6.3	6.2	5.4	5.0	4.6	4.8	5.2	+0.4	
Non-MSA	5.0	5.4	6.4	6.8	7.4	6.8	4.9	7.0	7.4	6.6	7.8	6.6	6.9	6.7	5.9	5.5	4.9	4.0	3.9	-0.2	
Parental Education: <sup>c</sup>																					
1.0–2.0 (Low)	4.9	4.8	4.3	6.4	7.5	5.2	6.3	5.1	6.7	6.6	6.2	7.3	6.3	6.0	4.8	4.3	4.8	5.1	4.9	-0.1	
2.5–3.0	5.2	4.9	4.9	6.3	6.2	7.1	5.3	7.1	6.5	7.0	8.1	6.5	5.7	6.3	5.7	5.5	4.6	5.0	5.0	0.0	
3.5–4.0	4.6	4.9	6.0	5.6	6.4	5.8	6.1	7.7	7.2	8.0	7.7	7.3	6.5	6.2	5.5	5.2	4.6	4.8	5.1	+0.3	
4.5–5.0	4.4	5.0	5.1	5.0	5.0	6.7	5.9	6.3	4.7	5.1	7.0	6.2	7.0	5.0	5.6	4.5	4.2	4.3	4.6	+0.3	
5.5–6.0 (High)	4.1	4.6	4.6	5.0	5.1	5.5	5.8	6.6	4.3	5.5	6.3	6.0	5.3	5.4	3.5	3.6	3.0	3.7	4.6	+1.0	
Race/Ethnicity (2-year average): <sup>d</sup>																					
White	4.9	5.4	5.9	6.5	6.7	6.9	7.0	7.5	7.6	7.4	7.9	7.9	7.5	7.3	6.6	5.8	5.2	4.9	5.1	+0.2	
African American	1.6	1.1	1.0	1.4	1.4	1.3	1.5	1.4	1.7	2.4	2.6	2.5	2.5	2.2	2.0	2.7	2.5	2.1	2.5	+0.5	
Hispanic	3.5	4.0	3.7	3.3	4.0	5.1	4.7	4.5	4.1	4.7	5.8	5.8	5.2	4.3	4.0	3.8	3.5	3.7	3.8	+0.1	

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

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

<sup>b</sup>In 2004 the barbiturate question text was changed on half of the questionnaire forms. Barbiturates was changed to Sedatives, including barbiturates, and "have you taken barbiturates . . ." was changed to "have you taken sedatives . . ." In the list of examples downs, downers, goofballs, yellow, reds, blues, rainbows were changed to downs, or downers, and include Phenobarbital, Tuinal, Nembutal, and Seconal. An examination of the data did not show any effect from the wording change. In 2005 the remaining forms were changed in a like manner.

<sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>e</sup>In 2013 the question text was changed in all forms: Tuinal, Nembutal, and Seconal were replaced with Ambien, Lunesta, and Sonata. In one form the list of examples was also changed: Tuinal was dropped from the list and Dalmane, Restoril, Halcion, Intermezzo, and Zolpimist were added. An examination of the data did not show any effect from the wording changes.

**TABLE 75**  
**TRANQUILIZERS:<sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 12 months																							2012– 2013 change
<i>Approximate weighted N =</i>	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001 <sup>b</sup>	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	1.8	2.0	2.1	2.4	2.7	3.3	2.9	2.6	2.5	2.6‡	2.8	2.6	2.7	2.5	2.8	2.6	2.4	2.4	2.6	2.8	2.0	1.8	1.8	0.0
Gender:																								
Male	1.5	1.6	1.8	1.9	2.0	2.3	2.6	2.3	2.1	2.1‡	2.5	2.2	2.2	1.9	2.1	2.2	1.6	1.7	2.3	2.2	1.6	1.3	1.3	-0.1
Female	2.1	2.3	2.4	2.8	3.3	4.0	3.2	3.0	2.9	3.1‡	2.9	2.8	3.0	3.2	3.4	2.9	3.1	3.2	3.0	3.3	2.4	2.3	2.4	+0.1
College Plans:																								
None or under 4 years	3.9	4.9	3.6	5.1	5.9	6.4	5.8	6.4	5.8	6.8‡	5.8	6.5	6.3	6.2	6.9	6.0	6.8	5.9	7.0	5.5	4.8	4.1	5.3	+1.1
Complete 4 years	1.5	1.5	1.9	2.0	2.3	2.8	2.6	2.2	2.0	2.2‡	2.5	2.1	2.3	2.1	2.4	2.3	2.0	2.2	2.3	2.6	1.8	1.6	1.6	0.0
Region:																								
Northeast	1.0	1.6	1.7	2.5	2.3	2.7	2.5	2.0	2.3	2.2‡	2.0	1.8	1.9	1.7	1.6	1.3	1.4	1.6	1.2	1.6	1.1	1.3	1.2	-0.1
Midwest	1.4	1.9	1.3	1.7	2.6	3.5	2.4	2.6	2.6	2.2‡	2.2	2.4	2.2	2.1	2.8	2.4	2.8	2.5	2.4	2.6	1.8	1.0	1.5	+0.5
South	2.6	2.5	2.4	2.6	3.0	3.7	3.3	3.2	2.8	3.2‡	3.4	3.4	3.5	3.4	3.7	3.6	2.9	3.3	3.6	3.6	2.5	2.7	2.3	-0.5
West	1.8	1.6	3.0	2.7	2.4	2.9	3.0	2.3	1.9	2.5‡	3.2	1.9	2.6	2.2	2.2	2.1	1.9	1.8	2.2	2.4	2.2	1.3	1.9	+0.6
Population Density:																								
Large MSA	1.8	2.1	1.7	2.5	1.8	3.2	2.1	1.9	1.8	2.5‡	2.8	2.0	1.8	1.8	2.0	1.9	1.9	1.8	2.0	2.2	1.7	1.5	1.6	+0.2
Other MSA	1.7	1.8	2.5	2.6	3.2	3.4	3.2	2.6	2.4	2.7‡	3.1	2.7	2.9	3.1	3.1	2.6	2.8	2.8	3.0	3.1	2.4	2.2	1.9	-0.2
Non-MSA	2.2	2.2	1.6	1.9	2.6	3.1	3.2	3.6	3.4	2.7‡	2.3	2.9	3.4	2.4	3.4	3.5	2.4	2.6	2.5	2.8	1.6	1.5	1.9	+0.4
Parental Education: <sup>c</sup>																								
1.0–2.0 (Low)	3.6	3.8	2.5	3.2	3.9	4.9	4.3	5.5	5.0	5.6‡	3.7	5.0	3.9	4.7	5.0	5.1	5.2	4.7	5.9	4.8	3.4	3.2	3.6	+0.4
2.5–3.0	1.6	2.1	2.5	2.6	2.7	3.5	3.1	2.8	3.3	3.6‡	3.7	3.6	3.5	2.8	4.3	3.2	3.3	3.0	3.4	3.4	2.8	2.4	2.4	0.0
3.5–4.0	2.0	2.2	2.1	2.6	3.2	3.9	3.2	2.7	2.1	2.6‡	2.7	2.2	2.8	3.0	3.3	3.1	2.9	2.5	2.8	3.2	2.5	1.9	2.2	+0.3
4.5–5.0	1.4	0.9	1.8	2.0	2.2	2.8	2.4	2.4	1.7	1.4‡	2.7	2.0	2.1	2.0	1.3	1.7	1.3	2.1	1.7	2.0	1.3	1.1	1.5	+0.4
5.5–6.0 (High)	1.8	1.9	1.7	2.1	1.6	2.7	2.7	2.1	1.9	2.2‡	2.1	1.6	1.6	1.7	2.0	1.8	1.0	1.7	1.4	1.7	1.3	1.5	0.9	-0.6
Race/Ethnicity (2-year average): <sup>d</sup>																								
White	—	2.0	2.0	2.2	2.7	3.2	3.4	3.1	2.9	3.0	3.0‡	3.0 <sup>e</sup>	2.8	2.8	2.9	3.0	2.7	2.6	2.8	2.9	2.6	2.0	1.7	-0.3
African American	—	0.9	1.1	1.2	1.2	1.3	1.2	0.9	0.7	0.5	0.5‡	0.6 <sup>e</sup>	1.0	1.2	1.0	0.8	0.9	0.9	1.0	1.2	1.3	1.2	1.1	-0.1
Hispanic	—	2.7	3.1	3.4	3.3	3.5	3.5	3.4	3.5	3.5	3.6‡	3.8 <sup>e</sup>	3.4	3.4	3.5	3.0	2.9	2.9	2.9	3.3	2.9	2.4	2.4	0.0

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

Notes. '‡' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001.

'—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases.

See appendix B for definition of variables in table.

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

<sup>b</sup>In 2001, for the tranquilizer list of examples, Miltown was replaced with Xanax. The 2001 data are based on the changed forms only; N is one half of N indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

<sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>e</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

**TABLE 76**  
**TRANQUILIZERS: <sup>a</sup>Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months																							2012– 2013 change
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001 <sup>b</sup>	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	3.2	3.5	3.3	3.3	4.0	4.6	4.9	5.1	5.4	5.6‡	7.3	6.3	5.3	5.1	4.8	5.2	5.3	4.6	5.0	5.1	4.5	4.3	3.7	-0.6
Gender:																								
Male	2.5	2.7	3.2	3.0	4.0	4.3	4.7	4.7	5.2	5.8‡	7.9	5.7	4.7	4.7	4.3	5.0	4.6	4.1	4.4	4.5	4.7	4.0	3.8	-0.3
Female	3.8	4.3	3.2	3.6	4.0	4.9	5.2	5.4	5.4	5.5‡	6.8	6.9	5.8	5.5	5.3	5.3	6.0	5.0	5.7	5.5	4.3	4.5	3.6	-0.9 s
College Plans:																								
None or under 4 years	5.0	6.0	5.8	6.0	7.4	9.4	8.6	8.3	8.6	10.0‡	13.5	11.6	9.2	9.6	9.6	10.2	9.9	9.6	11.4	10.6	9.9	10.7	6.4	-4.3 ss
Complete 4 years	2.8	3.1	2.7	2.8	3.4	3.8	4.3	4.5	4.8	4.9‡	6.4	5.5	4.7	4.5	4.2	4.5	4.7	3.9	4.4	4.4	3.9	3.6	3.4	-0.2
Region:																								
Northeast	2.7	2.8	3.4	2.8	2.6	3.9	3.6	5.7	5.5	3.9‡	6.2	4.6	4.3	5.0	5.0	3.8	4.1	2.8	3.0	4.0	3.5	3.0	2.9	-0.1
Midwest	2.4	3.0	2.5	2.6	3.2	4.4	3.7	3.4	4.6	5.4‡	5.6	5.5	4.5	3.5	3.3	4.2	5.3	4.7	5.1	5.1	4.4	4.3	3.9	-0.4
South	4.2	4.5	3.9	4.2	5.1	5.7	7.3	6.6	6.0	6.9‡	9.6	8.1	7.5	7.3	6.6	6.9	6.5	6.2	6.2	6.1	5.4	5.3	4.3	-1.0
West	2.9	3.2	3.2	3.6	4.3	3.6	3.7	4.1	4.9	5.4‡	6.7	5.8	4.1	4.1	3.8	5.3	4.7	3.7	5.2	4.3	4.2	3.9	3.3	-0.6
Population Density:																								
Large MSA	3.2	3.3	2.7	2.6	3.2	4.2	3.9	4.1	5.0	5.5‡	5.8	5.1	3.9	3.2	3.5	4.4	4.1	3.3	3.9	4.6	4.0	3.7	3.0	-0.7
Other MSA	3.0	3.8	3.3	3.9	4.1	4.6	4.4	5.2	5.5	5.4‡	7.0	6.8	5.8	5.7	5.4	5.3	5.8	5.2	5.8	5.2	4.7	4.2	4.1	-0.1
Non-MSA	3.5	3.3	3.6	3.0	4.7	5.2	7.0	6.0	5.6	6.1‡	9.9	6.7	6.4	6.4	5.3	6.3	6.0	5.1	5.1	5.5	5.1	5.2	3.7	-1.5
Parental Education: <sup>c</sup>																								
1.0–2.0 (Low)	3.3	5.3	4.8	4.2	5.0	5.9	4.7	6.5	5.0	8.2‡	7.6	7.1	7.5	5.8	5.2	6.6	5.5	5.4	7.4	6.5	4.8	5.5	5.4	-0.1
2.5–3.0	3.6	3.5	3.1	3.3	4.5	5.2	5.3	6.3	5.9	6.2‡	7.9	7.5	7.3	5.6	5.7	6.2	6.4	5.9	5.9	6.7	5.0	5.4	4.6	-0.8
3.5–4.0	3.2	3.4	3.5	3.4	4.3	5.0	5.5	4.9	5.2	5.6‡	8.1	6.7	5.7	5.7	5.4	5.6	5.7	5.2	5.9	5.8	4.8	5.0	4.4	-0.6
4.5–5.0	2.5	3.9	2.9	2.9	3.5	4.1	4.2	4.5	5.7	5.2‡	6.7	5.8	4.1	4.6	4.0	4.3	4.9	3.5	4.1	4.0	4.4	3.6	2.4	-1.2 s
5.5–6.0 (High)	3.5	2.3	3.1	3.4	3.2	3.6	4.4	4.0	5.3	4.7‡	6.9	4.6	3.4	4.1	4.0	4.3	3.9	3.6	3.6	3.3	4.1	3.2	3.2	0.0
Race/Ethnicity (2-year average): <sup>d</sup>																								
White	—	4.0	3.8	3.6	4.1	4.9	5.6	6.0	6.1	6.4	7.0‡	7.6 <sup>e</sup>	7.4	6.5	6.0	6.0	6.2	6.1	5.7	5.8	5.6	5.1	4.4	-0.7
African American	—	0.9	0.9	0.9	0.8	0.7	0.9	1.0	1.2	1.1	1.5‡	1.5 <sup>e</sup>	1.3	1.3	1.3	1.6	1.3	1.0	1.3	1.8	2.1	1.8	1.7	-0.1
Hispanic	—	2.9	3.3	3.1	3.1	3.4	3.5	3.5	3.7	4.0	4.0‡	4.3 <sup>e</sup>	4.4	4.5	4.3	3.8	3.3	3.5	4.5	4.9	4.1	4.0	4.2	+0.2

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

Notes. ' ‡ ' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001.

' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases.

See appendix B for definition of variables in table.

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

<sup>b</sup>In 2001, for the tranquilizer list of examples, Miltown was replaced with Xanax. The 2001 data are based on the changed forms only; N is one half of N indicated. In 2002 the remaining forms were changed. Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

<sup>c</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>d</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>e</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.



**TABLE 77**  
**TRANQUILIZERS: <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																				→ (Years cont.)
<i>Approximate weighted N =</i>	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	
	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
Total	10.6	10.3	10.8	9.9	9.6	8.7	8.0	7.0	6.9	6.1	6.1	5.8	5.5	4.8	3.8	3.5	3.6	2.8	3.5	3.7	
Gender:																					
Male	10.0	9.4	10.2	9.7	9.9	9.0	8.0	6.9	7.0	6.3	6.4	5.9	5.2	4.7	4.0	3.5	3.5	2.7	3.5	4.0	
Female	11.1	11.0	11.4	10.1	9.3	8.5	7.7	7.1	6.7	5.8	5.7	5.8	5.8	4.8	3.5	3.5	3.6	3.0	3.3	3.5	
College Plans:																					
None or under 4 years	—	11.5	12.3	11.1	11.0	10.7	9.4	8.0	8.0	7.4	6.8	7.2	6.7	5.1	4.8	4.3	4.2	3.9	3.9	4.5	
Complete 4 years	—	8.9	9.0	8.6	8.1	7.2	6.9	6.3	5.8	5.2	5.5	5.1	4.9	4.6	3.3	3.2	3.4	2.5	3.3	3.5	
Region:																					
Northeast	9.2	9.7	10.4	10.9	11.5	8.6	8.3	7.8	6.8	6.8	7.1	6.4	6.9	4.5	3.7	2.9	3.0	3.0	3.7	3.5	
Midwest	10.6	10.1	11.0	8.8	7.5	8.2	7.8	6.2	6.8	5.6	6.0	5.5	4.5	3.7	3.1	2.9	3.0	2.3	2.8	3.1	
South	11.3	11.7	11.4	10.5	10.4	9.5	7.8	7.4	7.4	6.9	5.9	6.3	5.7	6.0	4.4	4.3	4.0	3.5	4.2	4.8	
West	11.7	8.5	9.6	8.9	9.4	8.6	8.0	6.4	6.2	4.9	5.3	4.8	5.2	4.4	3.4	3.9	4.4	2.3	3.0	2.8	
Population Density:																					
Large MSA	11.2	9.6	9.6	10.3	9.9	8.7	8.3	7.0	7.0	5.4	5.8	5.3	5.8	4.7	3.1	3.6	2.5	2.9	2.9	3.9	
Other MSA	11.0	11.3	11.4	10.1	10.2	9.3	8.1	7.2	7.2	6.1	6.0	5.7	5.6	5.0	3.5	3.7	4.1	2.7	3.6	3.7	
Non-MSA	9.9	9.5	11.0	9.2	8.7	8.0	7.5	6.8	6.5	6.8	6.5	6.4	5.2	4.5	4.9	3.3	3.7	3.1	3.7	3.5	
Parental Education: <sup>b</sup>																					
1.0–2.0 (Low)	—	11.2	10.1	9.4	9.4	9.1	7.8	7.1	6.1	6.0	6.5	5.3	6.7	5.7	3.9	3.6	4.0	3.9	3.3	4.2	
2.5–3.0	—	9.8	10.3	11.5	10.1	8.8	9.1	8.0	7.3	7.2	6.5	6.2	5.8	5.4	4.6	3.9	3.6	2.8	3.3	3.5	
3.5–4.0	—	9.8	11.2	11.1	9.5	10.4	8.9	8.3	6.7	6.9	5.8	6.4	6.5	5.3	4.5	3.4	3.1	2.7	3.5	3.6	
4.5–5.0	—	11.3	11.7	11.4	10.5	10.0	8.1	7.4	7.6	6.6	5.8	6.3	4.7	5.9	5.5	3.8	3.9	3.0	3.4	3.7	
5.5–6.0 (High)	—	9.3	12.0	10.1	11.0	11.4	10.3	9.1	7.6	7.1	6.3	5.5	5.4	5.4	5.6	4.9	4.0	2.2	4.2	4.2	
Race/Ethnicity (2-year average): <sup>c</sup>																					
White	—	—	11.4	11.1	10.5	9.9	9.1	8.3	7.8	7.3	6.8	6.6	6.3	5.9	5.0	4.2	4.1	3.7	3.7	4.2	
African American	—	—	4.3	4.2	3.6	3.1	3.0	2.5	2.3	2.1	1.7	1.7	2.0	2.0	1.2	0.7	0.9	1.3	1.0	1.1	
Hispanic	—	—	8.4	8.2	7.4	6.4	5.7	5.8	5.1	5.3	5.0	4.4	3.7	2.5	1.6	1.9	2.7	2.4	2.0	2.4	

(Table continued on next page.)

**TABLE 77 (cont.)**  
**TRANQUILIZERS<sup>a</sup>**

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

	Percentage who used in last 12 months																			2012– 2013 change
	1995	1996	1997	1998	1999	2000	2001 <sup>d</sup>	2002	2003	2004	2005	2006	2007 <sup>e</sup>	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
<b>Total</b>	4.4	4.6	4.7	5.5	5.8	5.7 <sup>‡</sup>	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	-0.7
<b>Gender</b>																				
Male	4.7	5.0	5.4	6.3	6.9	6.4 <sup>‡</sup>	7.9	8.4	6.9	8.0	7.2	7.1	6.9	6.8	6.8	5.9	5.4	5.1	4.6	-0.5
Female	4.1	4.0	3.9	4.7	4.8	4.9 <sup>‡</sup>	5.8	6.9	6.3	6.5	6.2	6.1	5.4	5.7	5.7	5.2	5.6	5.5	4.4	-1.0 s
<b>College Plans</b>																				
None or under 4 years	5.6	5.6	6.2	6.8	6.4	6.7 <sup>‡</sup>	7.6	9.9	9.6	9.1	10.3	8.5	9.1	9.3	8.7	8.6	9.1	6.7	6.0	-0.8
Complete 4 years	4.1	4.2	4.0	5.1	5.6	5.2 <sup>‡</sup>	6.7	7.1	6.0	6.8	5.9	6.0	5.5	5.5	5.7	4.9	4.9	4.9	4.2	-0.7 s
<b>Region</b>																				
Northeast	3.9	4.8	5.3	4.9	5.6	5.2 <sup>‡</sup>	5.7	6.8	5.4	6.5	5.7	7.2	5.9	5.3	6.7	5.2	4.8	4.6	4.2	-0.4
Midwest	4.0	4.4	3.5	3.7	5.1	4.7 <sup>‡</sup>	8.1	6.5	5.5	6.2	7.0	5.8	6.4	5.2	7.0	5.7	6.1	5.3	4.7	-0.5
South	5.0	5.3	5.4	7.5	7.6	6.7 <sup>‡</sup>	7.4	10.4	8.5	9.0	8.3	7.6	7.0	7.8	6.9	6.4	5.5	5.3	5.0	-0.3
West	4.3	3.0	4.3	4.4	3.9	5.6 <sup>‡</sup>	5.5	5.8	6.6	7.0	4.9	5.3	4.7	5.5	4.1	4.3	5.7	6.0	4.4	-1.6 s
<b>Population Density</b>																				
Large MSA	4.0	3.7	4.2	4.8	4.0	4.7 <sup>‡</sup>	7.9	7.8	4.7	5.5	5.5	6.5	5.9	5.2	5.5	4.9	4.7	5.3	4.5	-0.8
Other MSA	4.5	4.9	4.8	5.7	6.6	6.2 <sup>‡</sup>	6.4	8.2	7.8	8.5	7.4	6.6	6.4	6.6	6.7	5.8	5.8	5.6	5.2	-0.4
Non-MSA	4.8	4.7	5.1	5.9	6.5	6.0 <sup>‡</sup>	6.7	6.8	7.4	7.3	7.1	6.9	6.2	6.5	6.3	6.0	6.5	4.9	3.6	-1.3
<b>Parental Education<sup>b</sup></b>																				
1.0–2.0 (Low)	3.9	4.2	3.9	6.4	5.2	6.4 <sup>‡</sup>	5.4	5.2	7.1	5.0	4.3	5.7	6.0	5.9	5.1	5.0	5.4	5.3	4.3	-1.1
2.5–3.0	4.7	4.0	4.3	5.2	6.2	5.3 <sup>‡</sup>	6.7	7.9	6.5	7.9	7.7	6.9	6.5	5.5	7.0	6.4	5.5	5.9	4.5	-1.3
3.5–4.0	4.3	4.7	4.6	6.0	6.4	5.6 <sup>‡</sup>	7.7	8.4	7.6	9.0	7.3	6.9	6.4	7.4	6.2	6.1	6.7	5.7	5.8	+0.1
4.5–5.0	4.5	4.6	5.4	4.9	5.4	5.9 <sup>‡</sup>	7.4	7.9	5.9	7.1	6.8	6.6	6.3	5.7	6.5	5.1	5.2	4.9	4.0	-1.0
5.5–6.0 (High)	4.1	5.3	5.1	5.5	5.6	5.8 <sup>‡</sup>	6.0	7.9	6.2	5.4	5.9	6.4	5.5	6.0	5.9	4.2	4.6	4.6	4.0	-0.6
<b>Race/Ethnicity (2-year average)<sup>c</sup></b>																				
White	4.6	5.1	5.5	6.2	6.8	6.9	7.7 <sup>‡</sup>	9.2 <sup>f</sup>	8.7	8.4	8.6	8.2	7.9	7.9	8.0	7.3	6.8	6.7	5.9	-0.8
African American	1.2	0.9	0.8	1.0	1.0	0.7	0.6 <sup>‡</sup>	1.1 <sup>f</sup>	1.3	1.7	1.9	1.6	1.3	1.0	1.2	2.2	2.3	1.6	1.7	+0.1
Hispanic	3.5	4.3	3.8	3.3	3.5	4.3	3.9 <sup>‡</sup>	4.1 <sup>f</sup>	4.5	4.5	4.3	4.3	4.5	4.2	4.0	3.9	3.9	3.9	3.8	-0.2

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

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

See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

<sup>d</sup>In 2001, for the tranquilizer list of examples, Miltown was replaced with Xanax. The 2001 data are based on the changed forms only; *N* is one half of *N* indicated. In 2002 the remaining forms were changed.

Beginning in 2002, the data are based on all forms. Data for any illicit drug other than marijuana and hallucinogens are also affected by these changes and have been treated in a parallel manner.

<sup>e</sup>In 2007, for the list of tranquilizers, Equanil and meprobamate were replaced with Soma while Atarax, Tranxene, and Vistaril were replaced with Ativan and Klonopin.

<sup>f</sup>Due to changes in the question wording in half of the questionnaire forms in 2001, the 2002 entry comprises half of the 2001 sample data double-weighted (the half with the new version of the question) and all of the 2002 sample data.

**TABLE 78**  
**OVER-THE-COUNTER COUGH/COLD MEDICINES**  
**Trends in Annual Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 12 months									2012– 2013 change
	1991– 2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	—	4.2	4.0	3.6	3.8	3.2	2.7	3.0	2.9	-0.1
Gender:										
Male	—	3.4	3.1	2.7	3.7	2.7	2.2	1.7	2.7	+1.0 s
Female	—	4.7	5.0	4.3	3.8	3.7	3.1	3.9	3.0	-0.9
College Plans:										
None or under 4 years	—	11.9	8.0	7.1	12.9	5.9	5.9	6.4	8.2	+1.8
Complete 4 years	—	3.4	3.6	3.3	3.1	2.9	2.5	2.8	2.6	-0.2
Region:										
Northeast	—	3.4	2.4	2.5	2.7	2.2	2.3	1.6	2.6	+1.0
Midwest	—	4.5	4.0	3.8	3.8	3.0	2.4	2.6	1.9	-0.7
South	—	4.2	4.8	4.1	4.5	3.2	2.7	3.9	3.1	-0.8
West	—	4.4	3.6	3.3	3.3	4.1	3.5	3.0	3.8	+0.9
Population Density:										
Large MSA	—	3.5	2.7	3.1	3.4	2.6	1.7	3.1	3.6	+0.5
Other MSA	—	4.4	4.8	3.5	3.8	3.7	3.5	3.0	2.7	-0.3
Non-MSA	—	4.6	4.2	4.3	4.3	3.0	2.7	2.8	2.3	-0.6
Parental Education: <sup>a</sup>										
1.0–2.0 (Low)	—	6.2	5.7	4.8	9.2	4.1	5.0	4.6	3.1	-1.5
2.5–3.0	—	5.1	4.5	4.4	4.6	4.0	3.7	3.3	3.9	+0.6
3.5–4.0	—	4.4	5.4	3.8	4.2	3.1	3.7	4.0	3.2	-0.8
4.5–5.0	—	3.8	3.4	3.4	3.3	2.1	1.9	1.9	3.2	+1.3
5.5–6.0 (High)	—	3.0	2.0	2.5	1.7	3.3	1.0	2.0	1.5	-0.5
Race/Ethnicity (2-year average): <sup>b</sup>										
White	—	—	4.5	4.1	3.7	3.3	2.9	2.6	2.6	0.0
African American	—	—	2.2	2.3	2.7	2.8	2.3	3.0	3.2	+0.2
Hispanic	—	—	4.4	3.8	3.6	3.9	3.2	3.8	3.9	+0.2

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

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

'—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases.

See appendix B for definition of variables in table. Data based on one of four forms;

*N* is one third of *N* indicated in Table S1.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 79**  
**OVER-THE-COUNTER COUGH/COLD MEDICINES**  
**Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months									2012– 2013 change
	1991– 2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	—	5.3	5.4	5.3	6.0	5.1	5.5	4.7	4.3	-0.5
Gender:										
Male	—	5.1	4.6	4.9	5.9	5.5	5.4	5.5	4.6	-0.9
Female	—	5.5	6.3	5.7	6.0	4.9	5.8	4.1	3.5	-0.6
College Plans:										
None or under 4 years	—	9.9	9.7	11.3	13.5	10.8	13.6	10.2	8.0	-2.1
Complete 4 years	—	4.6	4.8	4.6	5.2	4.5	4.6	4.2	3.9	-0.3
Region:										
Northeast	—	4.1	5.8	3.5	4.1	4.4	5.3	4.5	4.4	-0.1
Midwest	—	4.3	5.4	5.4	6.2	4.9	6.0	4.3	3.5	-0.9
South	—	6.3	5.9	6.6	6.9	5.0	6.2	5.7	4.2	-1.5
West	—	6.0	4.7	4.8	6.3	6.3	4.2	4.0	5.1	+1.1
Population Density:										
Large MSA	—	4.3	4.7	4.3	5.3	5.1	4.1	4.2	4.3	+0.1
Other MSA	—	5.5	5.6	6.2	6.8	4.7	6.4	4.7	4.0	-0.7
Non-MSA	—	6.3	6.3	4.7	5.3	6.1	5.9	5.5	5.0	-0.6
Parental Education: <sup>a</sup>										
1.0–2.0 (Low)	—	5.1	6.4	6.8	9.7	9.3	8.0	6.2	5.4	-0.8
2.5–3.0	—	6.2	7.4	5.9	7.3	6.0	6.2	5.9	5.3	-0.5
3.5–4.0	—	6.2	6.0	5.0	6.5	5.3	5.5	5.8	5.2	-0.7
4.5–5.0	—	4.1	4.5	5.6	4.5	3.4	5.1	3.5	3.0	-0.4
5.5–6.0 (High)	—	5.1	3.0	3.9	5.2	5.1	4.6	3.6	2.9	-0.7
Race/Ethnicity (2-year average): <sup>b</sup>										
White	—	—	6.0	6.2	6.4	5.8	5.4	5.1	4.7	-0.5
African American	—	—	3.9	3.1	2.1	2.6	3.8	2.7	2.3	-0.4
Hispanic	—	—	3.2	4.0	5.5	5.6	5.7	6.5	5.0	-1.4

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

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

'—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms;  $N$  is one third of  $N$  indicated in Table S2.

**Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.**

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 80**  
**OVER-THE-COUNTER COUGH/COLD MEDICINES**  
**Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months									2012– 2013 change
	1991– 2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
Total	—	6.9	5.8	5.5	5.9	6.6	5.3	5.6	5.0	-0.5
Gender:										
Male	—	7.6	5.9	6.3	8.1	7.7	5.6	6.1	5.9	-0.1
Female	—	5.9	5.1	4.7	4.1	5.4	4.7	4.5	4.2	-0.3
College Plans:										
None or under 4 years	—	8.9	8.3	7.6	7.1	8.6	7.3	8.4	7.3	-1.1
Complete 4 years	—	6.2	5.2	4.9	5.5	6.1	4.9	4.8	4.4	-0.4
Region:										
Northeast	—	5.9	7.8	4.4	5.1	7.4	5.6	4.9	5.1	+0.2
Midwest	—	6.6	6.8	4.4	6.7	5.9	6.1	5.8	4.6	-1.2
South	—	7.6	5.2	6.7	6.2	6.6	5.5	5.6	5.7	+0.1
West	—	6.7	4.2	5.8	4.8	6.6	4.1	5.8	4.5	-1.3
Population Density:										
Large MSA	—	7.6	5.4	4.9	5.7	6.3	5.2	5.9	5.0	-0.9
Other MSA	—	6.0	5.9	5.5	6.6	6.8	5.4	5.2	4.9	-0.3
Non-MSA	—	7.5	6.1	6.4	4.4	6.2	5.4	6.0	5.4	-0.7
Parental Education: <sup>a</sup>										
1.0–2.0 (Low)	—	7.7	7.2	6.8	7.8	7.4	7.3	5.7	5.9	+0.2
2.5–3.0	—	6.2	6.7	5.0	6.1	6.2	5.7	5.5	4.3	-1.2
3.5–4.0	—	7.7	4.6	6.3	5.7	7.9	4.9	5.6	6.3	+0.7
4.5–5.0	—	6.7	6.8	4.8	5.6	5.3	4.9	6.0	4.1	-1.9
5.5–6.0 (High)	—	4.9	4.0	4.4	5.1	5.9	5.6	5.3	3.9	-1.4
Race/Ethnicity (2-year average): <sup>b</sup>										
White	—	—	6.3	5.8	5.9	6.4	6.2	5.6	5.3	-0.3
African American	—	—	5.0	4.2	4.5	4.6	4.6	3.8	3.7	-0.1
Hispanic	—	—	7.9	6.0	6.0	7.1	5.4	5.4	5.8	+0.3

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

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

' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data are based on two of six forms;  $N$  is two sixths of  $N$  indicated in Table S3.

**Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.**

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 81**  
**ROHYPNOL: Trends in Annual Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 12 months																			2012– 2013 change
	1991– 1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	—	1.0	0.8	0.8	0.5	0.5	0.7	0.3	0.5	0.6	0.7	0.5	0.7	0.5	0.4	0.5	0.8	0.4	0.4	0.0
Gender:																				
Male	—	1.1	0.7	0.8	0.6	0.5	0.6	0.2	0.4	0.5	0.7	0.7	0.6	0.6	0.4	0.3	0.7	0.4	0.5	+0.1
Female	—	1.0	0.9	0.9	0.2	0.6	0.7	0.2	0.4	0.7	0.7	0.4	0.7	0.3	0.4	0.7	0.8	0.3	0.3	0.0
College Plans:																				
None or under 4 years	—	2.5	1.5	3.0	0.9	2.2	2.0	1.0	1.3	2.4	1.8	1.1	3.3	2.6	2.4	0.5	1.8	3.1	2.2	-0.9
Complete 4 years	—	0.8	0.7	0.6	0.4	0.4	0.5	0.2	0.4	0.4	0.6	0.5	0.4	0.3	0.2	0.5	0.7	0.2	0.3	0.0
Region:																				
Northeast	—	0.9	0.3	0.9	0.3	0.6	0.9	0.2	0.2	0.3	0.6	1.4	0.1	0.0	0.0	0.5	0.9	0.4	0.5	+0.1
Midwest	—	0.9	0.8	0.8	0.3	0.4	1.0	0.4	0.2	0.8	0.6	0.0	0.8	0.7	0.6	0.4	0.6	0.1	0.0	-0.1
South	—	1.3	1.1	0.9	0.7	0.9	0.6	0.4	0.6	0.5	0.5	0.6	0.7	0.6	0.4	0.7	0.4	0.6	0.5	-0.1
West	—	1.0	0.7	0.8	0.5	*	0.4	0.1	0.7	0.7	1.1	0.2	0.8	0.5	0.5	0.5	1.7	0.4	0.6	+0.3
Population Density:																				
Large MSA	—	1.2	0.8	0.7	0.4	0.9	1.2	0.1	0.1	0.5	0.4	0.6	0.4	0.6	0.1	0.4	1.1	0.4	0.3	-0.1
Other MSA	—	1.1	0.9	1.0	0.6	0.5	0.5	0.3	0.4	0.8	0.7	0.5	0.8	0.5	0.6	0.7	0.7	0.3	0.6	+0.3
Non-MSA	—	0.8	0.7	0.8	0.3	0.2	0.4	0.5	1.0	0.3	1.0	0.5	0.8	0.4	0.4	0.3	0.5	0.6	0.2	-0.4
Parental Education: <sup>a</sup>																				
1.0–2.0 (Low)	—	2.0	2.1	2.2	0.2	0.9	1.3	0.9	1.8	2.4	0.6	0.7	0.5	0.7	1.4	1.4	0.3	1.6	0.3	-1.3
2.5–3.0	—	1.1	1.1	0.8	0.3	0.8	0.3	0.0	0.9	0.1	1.3	0.1	0.5	0.5	0.0	0.0	1.0	0.5	0.7	+0.2
3.5–4.0	—	1.2	0.7	0.9	0.6	0.2	1.2	0.2	0.1	0.2	0.4	0.7	0.7	0.7	0.3	0.6	1.0	0.4	0.4	0.0
4.5–5.0	—	0.8	0.6	0.6	0.5	0.4	0.7	0.6	0.4	0.6	0.9	0.1	0.9	0.2	0.6	0.6	0.6	0.3	0.7	+0.4
5.5–6.0 (High)	—	0.8	0.5	0.9	0.7	0.9	0.2	0.2	0.0	0.1	0.5	1.5	0.4	0.3	0.1	0.4	1.0	0.2	0.0	-0.2
Race/Ethnicity (2-year average): <sup>b</sup>																				
White	—	—	0.9	0.8	0.7	0.5	0.6	0.5	0.4	0.4	0.5	0.5	0.4	0.5	0.6	0.4	0.3	0.4	0.4	0.0
African American	—	—	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.9	0.7	0.2	0.2	0.2	0.2	0.1	0.3	0.7	0.6	-0.1
Hispanic	—	—	1.4	1.5	1.5	0.6	0.9	0.8	0.4	1.0	0.8	0.6	1.1	1.0	0.5	0.8	1.6	1.2	0.3	-0.9

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. '\*' indicates less than 0.05% but greater than 0%. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1996;  $N$  is one half of  $N$  indicated in Table S1. Data based on three of four forms in 1997–1998;  $N$  is two thirds of  $N$  indicated in Table S1. Data based on two of four forms in 1999–2001;  $N$  is one third of  $N$  indicated in Table S1. Data based on one of four forms beginning in 2002;  $N$  is one sixth of  $N$  indicated in Table S1.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 82**  
**ROHNPOL: Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months																			2012–2013 change
	1991–1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	—	1.1	1.3	1.2	1.0	0.8	1.0	0.7	0.6	0.7	0.5	0.5	0.7	0.4	0.4	0.6	0.6	0.5	0.6	+0.1
Gender:																				
Male	—	1.1	1.4	1.4	1.2	1.0	1.1	0.4	0.7	0.8	0.3	0.4	0.7	0.3	0.3	0.6	0.8	0.4	0.7	+0.3
Female	—	1.1	1.1	1.1	0.9	0.6	0.9	0.9	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.4	-0.1
College Plans:																				
None or under 4 years	—	2.9	2.7	2.9	2.8	1.4	2.8	0.5	0.3	1.4	1.6	1.5	1.4	0.5	0.9	1.2	0.9	2.3	0.6	-1.7
Complete 4 years	—	0.8	1.1	0.9	0.8	0.6	0.7	0.7	0.6	0.6	0.3	0.4	0.6	0.4	0.4	0.5	0.6	0.3	0.6	+0.3
Region:																				
Northeast	—	0.6	0.7	0.9	0.4	0.6	0.9	0.4	1.0	0.8	0.7	0.3	0.5	0.7	0.2	0.9	0.6	0.8	0.3	-0.5
Midwest	—	0.5	0.8	1.0	0.9	0.4	0.9	0.3	0.2	0.3	0.2	1.0	1.4	0.2	0.9	0.3	0.5	0.3	1.1	+0.8
South	—	1.9	2.4	2.0	1.8	1.2	1.0	0.4	0.8	0.9	0.7	0.7	0.5	0.4	0.3	0.8	0.8	0.5	0.4	0.0
West	—	1.1	0.6	0.5	0.6	0.7	1.3	2.0	0.4	0.9	0.2	0.0	0.4	0.4	0.3	0.2	0.6	0.5	0.4	-0.1
Population Density:																				
Large MSA	—	1.1	1.3	1.3	0.9	0.9	1.2	0.7	0.3	0.6	0.3	0.2	0.7	0.1	0.3	0.5	0.7	0.5	0.8	+0.2
Other MSA	—	1.4	1.3	1.3	1.3	0.9	0.8	0.9	0.4	0.7	0.5	0.7	0.6	0.7	0.5	0.7	0.5	0.4	0.4	-0.1
Non-MSA	—	0.6	1.3	1.0	0.7	0.5	1.2	0.3	1.5	0.8	0.5	0.8	0.9	0.3	0.4	0.4	0.9	0.5	0.7	+0.2
Parental Education: <sup>a</sup>																				
1.0–2.0 (Low)	—	1.7	1.3	1.7	1.2	1.3	2.3	0.4	1.3	0.4	1.1	1.4	0.4	1.2	0.2	0.7	0.0	0.8	0.6	-0.2
2.5–3.0	—	1.0	1.1	1.6	1.6	0.5	1.1	0.9	0.7	0.4	0.5	0.3	0.6	0.3	0.4	0.3	0.6	0.8	0.5	-0.4
3.5–4.0	—	1.5	1.6	1.0	0.8	0.8	0.7	1.0	0.9	1.0	0.4	0.7	0.5	0.5	0.9	0.4	0.5	0.0	0.8	+0.8
4.5–5.0	—	0.7	1.5	0.9	0.6	0.7	1.1	0.7	0.2	0.6	0.6	0.3	0.6	0.2	0.1	0.6	1.2	0.2	0.6	+0.4
5.5–6.0 (High)	—	1.1	0.8	1.3	1.1	0.8	0.3	0.2	0.4	1.0	0.0	0.0	1.1	0.6	0.6	1.0	0.0	1.1	0.4	-0.7
Race/Ethnicity (2-year average): <sup>b</sup>																				
White	—	—	1.4	1.5	1.5	1.0	1.0	1.0	0.6	0.9	0.8	0.5	0.6	0.5	0.5	0.6	0.8	0.6	0.5	-0.1
African American	—	—	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.2	0.4	0.3	0.0	0.0	0.1	0.3	0.5	0.3	0.1	-0.1
Hispanic	—	—	1.0	1.2	1.1	0.7	0.9	1.0	0.7	0.3	0.2	0.6	0.8	0.6	0.3	0.4	0.3	0.3	0.5	+0.2

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1996;  $N$  is one half of  $N$  indicated in Table S2. Data based on three of four forms in 1997–1998;  $N$  is two thirds of  $N$  indicated in Table S2. Data based on two of four forms in 1999–2001;  $N$  is one third of  $N$  indicated in Table S2. Data based on one of four forms beginning in 2002;  $N$  is one sixth of  $N$  indicated in Table S2.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 83**  
**ROHYPNOL: Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																			2012– 2013 change	
	1975– 1995	1996	1997	1998	1999	2000	2001 <sup>a</sup>	2002 <sup>a</sup>	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
<i>Approximate weighted N =</i>	—	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	—	1.1	1.2	1.4	1.0	0.8	0.9‡	1.6	1.3	1.6	1.2	1.1	1.0	1.3	1.0	1.5	1.3	1.5	0.9	-0.6	
Gender:																					
Male	—	1.8	1.2	1.7	1.0	0.8	1.1‡	2.3	2.0	2.3	1.5	1.3	0.9	1.5	1.1	2.2	2.0	1.2	0.9	-0.3	
Female	—	0.3	1.1	1.1	1.0	0.7	0.6‡	1.0	0.5	0.7	0.8	0.5	0.7	0.8	0.8	0.7	0.5	0.7	0.7	0.0	
College Plans:																					
None or under 4 years	—	1.4	0.5	1.8	1.0	0.1	1.2‡	2.5	2.1	3.0	2.4	1.6	1.8	2.3	1.8	3.8	1.7	2.7	1.7	-1.0	
Complete 4 years	—	0.8	1.3	1.3	1.0	0.9	0.8‡	1.4	0.9	1.0	0.9	0.8	0.7	1.0	0.8	0.9	1.2	0.8	0.6	-0.2	
Region:																					
Northeast	—	0.9	0.6	1.2	0.8	0.3	1.7‡	1.2	1.4	0.8	1.1	1.3	1.7	0.8	0.7	2.2	1.9	0.9	0.9	0.0	
Midwest	—	1.0	0.5	1.0	0.8	0.9	0.5‡	1.8	1.2	1.3	1.7	0.8	0.9	1.0	1.3	1.5	0.6	1.1	1.0	-0.1	
South	—	1.8	2.2	2.6	1.6	1.3	1.0‡	1.5	1.4	2.1	1.3	1.3	1.0	2.0	1.1	1.0	1.7	2.3	1.0	-1.3	
West	—	0.1	0.8	0.0	0.2	0.1	0.8‡	2.0	1.1	1.8	0.6	1.3	0.5	0.9	0.5	1.8	1.0	1.1	0.7	-0.5	
Population Density:																					
Large MSA	—	1.3	0.9	0.8	0.3	0.3	1.0‡	1.6	1.1	1.8	1.4	1.2	1.0	0.6	1.0	1.5	0.7	1.4	0.5	-0.9	
Other MSA	—	1.3	1.5	2.2	1.4	1.1	1.2‡	2.0	1.7	1.6	1.2	1.0	1.1	1.8	1.2	1.5	1.4	1.1	0.9	-0.2	
Non-MSA	—	0.7	0.7	0.6	0.9	0.7	0.3‡	1.1	0.9	1.2	1.1	1.4	0.8	1.0	0.4	1.3	1.8	2.6	1.5	-1.2	
Parental Education: <sup>b</sup>																					
1.0–2.0 (Low)	—	1.6	0.4	0.6	4.7	0.0	4.2‡	3.7	2.8	3.4	3.9	1.2	1.3	1.6	2.1	1.0	3.6	1.4	2.1	+0.6	
2.5–3.0	—	0.5	0.6	1.0	0.3	0.4	0.4‡	2.9	1.8	1.8	1.2	1.2	0.8	1.7	1.2	1.2	1.0	1.1	1.2	+0.2	
3.5–4.0	—	0.8	1.4	1.1	1.1	1.5	0.8‡	0.8	1.2	1.5	1.4	1.0	0.5	1.3	0.8	1.3	1.1	1.4	0.3	-1.1	
4.5–5.0	—	0.9	1.7	2.7	0.3	0.6	0.8‡	1.6	0.9	0.6	0.3	1.2	1.4	0.7	0.4	1.4	1.0	1.4	0.4	-1.0	
5.5–6.0 (High)	—	1.8	1.7	1.4	0.7	0.0	0.2‡	0.8	0.2	1.5	0.9	0.7	0.9	0.6	0.9	2.0	1.0	1.1	0.0	-1.1	
Race/Ethnicity (2-year average): <sup>c</sup>																					
White	—	—	1.2	1.6	1.5	0.9	0.8‡	—	1.5	1.3	1.1	0.9	0.7	0.9	1.0	1.1	1.3	0.9	0.7	-0.2	
African American	—	—	0.1	0.0	0.2	0.4	0.2‡	—	0.8	1.2	1.7	1.3	1.6	2.1	1.7	1.2	1.3	1.8	2.0	+0.2	
Hispanic	—	—	2.0	1.3	1.0	0.6	1.3‡	—	1.6	1.7	1.9	2.1	1.5	0.8	1.3	1.5	1.0	1.5	1.4	-0.1	

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

*Notes.* ' ‡ ' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms in 1996–2001;  $N$  is one sixth of  $N$  indicated in Table S3. Data based on two of six forms beginning in 2002;  $N$  is two sixths of  $N$  indicated in Table S3. Data based on one of six forms beginning in 2010;  $N$  is one sixth of  $N$  indicated in Table S3.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>The 2001 and 2002 data are not comparable due to changes in the questionnaire forms.

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.



**TABLE 84**  
**ALCOHOL: Trends in 30-Day Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 30 days																							2012–2013 change
	1991	1992	1993 <sup>a</sup>	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004 <sup>a</sup>	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	25.1	26.1‡	24.3	25.5	24.6	26.2	24.5	23.0	24.0	22.4	21.5	19.6	19.7	18.6	17.1	17.2	15.9	15.9	14.9	13.8	12.7	11.0	10.2	-0.8
Gender:																								
Male	26.3	26.3‡	25.3	26.5	25.0	26.6	25.2	24.0	24.8	22.5	22.3	19.1	19.4	17.9	16.2	16.3	15.6	15.4	14.7	13.2	12.1	10.3	9.3	-1.0
Female	23.8	25.9‡	23.7	24.7	24.0	25.8	23.9	21.9	23.3	22.0	20.6	20.0	19.8	19.0	17.9	17.6	16.0	16.4	14.9	14.3	12.8	11.6	11.2	-0.4
College Plans:																								
None or under 4 years	37.2	39.6‡	41.1	41.4	40.0	41.7	40.2	41.2	41.6	38.3	37.0	35.3	35.3	32.6	32.6	30.8	33.5	30.4	31.7	25.7	24.6	23.3	23.6	+0.3
Complete 4 years	23.1	24.2‡	22.2	23.6	22.6	24.0	22.8	21.0	22.0	20.4	19.7	18.2	18.1	17.2	15.5	15.8	14.3	14.7	13.5	12.8	11.7	10.0	9.4	-0.6
Region:																								
Northeast	24.3	23.8‡	21.0	25.4	24.1	26.9	24.8	21.2	25.7	25.6	23.3	19.3	18.4	18.0	14.5	16.9	12.9	15.9	15.3	13.3	8.8	9.3	9.1	-0.2
Midwest	26.6	28.3‡	24.7	24.2	24.7	26.9	22.8	23.9	25.7	24.1	21.2	19.1	21.9	19.3	16.9	17.0	15.5	16.1	13.0	12.2	11.7	7.8	8.5	+0.7
South	25.1	26.8‡	25.4	25.6	25.5	26.3	26.4	23.8	24.4	20.9	22.8	21.6	20.8	18.8	19.0	18.5	17.1	18.2	17.4	15.7	14.2	13.3	12.5	-0.8
West	23.1	23.5‡	25.6	27.2	23.1	24.8	22.7	22.2	19.8	20.2	18.1	17.0	16.0	17.9	16.4	15.3	15.9	12.6	12.5	12.5	14.2	11.5	9.1	-2.5
Population Density:																								
Large MSA	25.4	27.4‡	21.2	23.8	22.3	24.9	23.1	21.4	21.7	21.2	19.4	17.4	18.2	18.1	17.2	16.6	14.8	15.2	12.9	13.5	11.5	10.3	9.5	-0.7
Other MSA	24.3	26.1‡	26.0	27.4	25.3	27.4	24.9	22.4	23.4	21.3	21.5	20.1	19.4	19.1	17.9	17.4	16.1	16.3	15.9	14.0	13.1	11.8	10.4	-1.4
Non-MSA	26.2	24.2‡	24.9	23.8	26.0	25.7	25.4	26.0	28.1	26.1	24.1	21.4	22.3	18.1	15.6	17.5	16.8	16.2	15.5	13.5	13.6	10.6	11.1	+0.5
Parental Education: <sup>b</sup>																								
1.0–2.0 (Low)	30.7	32.8‡	28.0	33.5	30.8	28.1	29.7	28.9	30.7	30.2	28.5	27.6	25.5	24.2	23.8	24.1	26.1	25.5	22.8	19.2	19.7	17.1	16.2	-1.0
2.5–3.0	27.0	27.2‡	28.0	27.4	27.8	30.1	26.2	26.5	27.9	26.3	27.0	23.2	24.0	22.1	20.4	20.0	20.3	19.3	18.3	17.4	16.6	15.3	13.2	-2.1
3.5–4.0	25.1	26.3‡	25.9	26.7	26.8	27.6	27.8	24.5	25.2	23.0	23.3	21.2	22.0	20.0	18.8	19.0	16.9	16.8	16.8	15.3	14.1	11.7	12.7	+1.0
4.5–5.0	22.8	24.6‡	20.6	22.6	21.0	25.0	22.6	20.2	20.4	18.4	17.2	17.0	16.0	16.3	14.6	13.9	11.6	13.4	11.5	11.4	9.5	8.9	7.5	-1.3
5.5–6.0 (High)	24.0	25.2‡	22.3	23.6	20.5	21.5	20.5	21.3	22.1	19.0	16.4	15.1	15.7	15.8	13.1	13.8	11.2	11.5	10.4	9.2	9.3	7.3	7.4	+0.1
Race/Ethnicity (2-year average): <sup>c</sup>																								
White	—	26.6	27.1‡	25.3	25.4	26.6	26.7	24.8	24.7	24.7	23.2	21.5	20.1	19.2	17.9	16.9	15.6	15.2	15.4	13.9	12.3	10.7	9.5	-1.3
African American	—	18.6	19.7‡	19.4	18.7	18.1	17.9	16.1	16.1	16.0	15.0	14.8	15.5	16.2	14.9	13.1	12.3	12.9	12.3	11.8	11.6	10.0	9.7	-0.3
Hispanic	—	31.0	32.3‡	33.5	32.4	29.7	29.8	29.5	29.0	26.7	25.7	26.5	25.3	23.5	20.6	21.2	23.0	21.5	19.2	18.1	18.0	17.5	14.3	-3.2

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

*Notes.* ' ‡ ' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ .

' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>In 1993, the question text was changed slightly in one form to indicate that a drink meant more than a few sips. The 1993 data are based on the changed form only;  $N$  is one half of  $N$  indicated. In 1994 the question text was changed in the remaining form. Beginning in 1994, the data are based on all forms. In 2004, the question text was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change.

The remaining forms were changed in 2005.

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 85**  
**ALCOHOL: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 30 days																						2012–2013		
	1991	1992	1993 <sup>a</sup>	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004 <sup>a</sup>	2005	2006	2007	2008	2009	2010	2011	2012	2013	change	
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900		
Total	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	-1.9	
Gender:																									
Male	45.5	41.6‡	40.6	43.5	39.7	42.6	42.5	40.0	42.3	43.3	41.1	35.3	35.3	36.3	32.8	33.8	33.4	28.6	31.0	30.1	28.2	28.0	26.0	-2.0	
Female	40.2	38.3‡	35.6	34.8	37.8	38.3	37.9	37.7	38.1	38.6	36.8	35.7	35.3	34.0	33.6	33.8	33.3	29.0	29.8	27.7	26.0	27.1	25.3	-1.9	
College Plans:																									
None or under 4 years	53.6	49.5‡	48.6	52.0	52.2	53.3	51.6	52.4	53.7	53.9	52.2	47.1	46.6	47.5	44.9	44.8	47.4	44.6	45.5	45.6	41.4	40.9	37.1	-3.8	
Complete 4 years	40.6	37.9‡	36.1	36.4	36.4	38.3	38.1	36.5	37.9	39.1	36.8	33.5	33.6	33.6	31.6	32.5	31.7	26.9	28.8	26.9	25.6	26.3	24.4	-1.9	
Region:																									
Northeast	48.0	42.3‡	42.4	37.4	38.3	41.4	41.1	41.6	44.8	42.0	37.8	36.3	38.7	40.4	37.0	35.7	36.2	31.4	30.5	29.5	31.5	33.3	28.4	-4.9 s	
Midwest	43.5	40.3‡	37.4	39.6	38.9	39.1	38.6	37.6	40.9	42.5	41.0	35.7	34.4	30.9	31.9	33.7	34.4	29.5	28.9	27.4	23.2	24.5	22.4	-2.1	
South	41.7	38.2‡	38.0	40.5	39.4	41.7	40.8	39.9	38.8	39.1	38.3	33.7	34.8	36.4	33.4	32.8	31.2	29.0	32.2	29.9	27.7	28.3	27.4	-0.9	
West	39.6	39.8‡	35.6	38.2	38.0	38.9	39.9	35.5	36.1	41.1	38.2	37.2	34.1	33.7	30.7	33.9	32.9	25.9	29.0	28.7	27.5	24.9	24.6	-0.4	
Population Density:																									
Large MSA	43.6	40.4‡	39.0	36.3	34.6	37.9	37.8	34.2	39.7	42.4	37.6	32.0	33.1	32.0	31.1	32.5	31.8	27.4	30.3	29.3	26.5	27.4	24.8	-2.6	
Other MSA	41.4	38.6‡	36.2	40.1	39.9	41.0	40.2	39.0	39.7	39.3	38.3	35.2	35.6	37.0	34.4	34.5	33.3	28.7	29.7	28.4	27.7	26.9	26.5	-0.4	
Non-MSA	44.8	41.9‡	41.3	40.6	41.3	42.1	42.6	43.7	41.0	42.4	41.8	40.4	38.3	35.8	33.5	34.4	36.2	31.1	31.9	29.4	27.1	29.1	24.9	-4.2	
Parental Education: <sup>b</sup>																									
1.0–2.0 (Low)	42.1	40.4‡	37.5	38.6	43.5	43.2	39.2	39.9	40.6	41.1	38.6	38.2	38.4	38.6	36.5	33.1	36.5	35.5	37.4	34.2	30.3	32.2	29.4	-2.8	
2.5–3.0	43.9	40.9‡	40.6	41.5	42.3	42.6	41.1	41.2	42.3	42.8	41.4	38.0	37.4	38.5	36.0	38.0	37.0	30.9	32.9	33.1	30.2	28.6	30.3	+1.7	
3.5–4.0	44.2	40.0‡	38.0	40.6	38.8	42.2	41.6	40.1	40.2	42.8	41.0	36.4	36.6	37.5	33.5	35.6	35.6	30.4	31.3	30.3	29.4	28.6	26.8	-1.8	
4.5–5.0	40.7	39.4‡	36.2	37.7	37.9	37.8	39.3	36.9	38.7	40.2	37.0	33.7	32.7	32.6	31.8	32.0	31.5	25.9	28.2	26.3	24.3	27.6	22.6	-5.0 sss	
5.5–6.0 (High)	44.9	41.7‡	39.3	35.4	34.3	39.6	38.9	37.0	40.9	39.0	37.1	32.0	34.1	32.4	31.8	31.7	28.8	26.2	27.4	24.5	24.0	26.2	23.4	-2.8	
Race/Ethnicity (2-year average): <sup>c</sup>																									
White	—	44.1	43.1‡	40.4	41.0	42.2	43.0	42.7	43.0	43.9	42.7	40.0	38.7	37.8	37.0	36.3	35.9	33.3	31.5	30.8	29.1	29.1	28.2	-0.9	
African American	—	30.2	29.3‡	29.7	28.0	23.9	24.6	25.1	24.4	24.7	25.3	24.3	23.7	24.6	23.0	21.5	21.7	20.6	20.2	20.7	20.8	20.2	19.0	-1.2	
Hispanic	—	41.0	39.9‡	37.7	40.5	44.0	42.8	39.4	39.6	40.5	40.2	37.9	37.1	39.5	38.2	36.1	34.8	33.7	34.1	34.9	31.8	28.4	28.8	+0.4	

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

Notes. ' ‡ ' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001.

' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>In 1993, the question text was changed slightly in one form to indicate that a drink meant more than a few sips. The 1993 data are based on the changed form only; N is one half of N indicated. In 1994 the question text was changed in the remaining form. Beginning in 1994, the data are based on all forms. In 2004, the question text was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change.

The remaining forms were changed in 2005.

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 86**  
**ALCOHOL**  
**Trends in 30-Day Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 30 days																			→ (Years cont.)																				
Approximate weighted N =	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993 <sup>a</sup>	1994																				
<b>Total</b>	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	68.2	68.3	71.2	72.1	71.8	72.0	70.7	69.7	69.4	67.2	65.9	65.3	66.4	63.9	60.0	57.1	54.0	51.3‡	48.6	50.1
<b>Gender</b>																																								
Male	75.0	74.5	77.8	77.5	76.7	77.4	75.7	74.1	74.4	71.4	69.8	69.0	69.9	68.0	65.1	61.3	58.4	55.8‡	54.2	55.5																				
Female	62.2	61.8	65.0	67.1	67.0	66.8	65.7	65.4	64.3	62.8	62.1	61.9	63.1	59.9	54.9	52.3	49.0	46.8‡	43.4	45.2																				
<b>College Plans</b>																																								
None or under 4 years	—	69.9	72.8	72.7	72.2	73.5	72.1	71.6	70.5	69.0	67.9	66.6	68.6	65.0	61.6	58.7	57.1	54.9‡	52.4	53.6																				
Complete 4 years	—	66.5	69.4	71.6	71.4	70.8	70.0	68.6	68.1	65.7	64.6	64.8	65.7	63.6	59.1	56.4	52.7	50.0‡	47.4	48.9																				
<b>Region</b>																																								
Northeast	76.9	75.7	76.6	78.0	81.1	79.4	80.4	76.7	74.4	73.6	72.3	67.6	69.1	66.7	61.7	65.3	59.6	51.5‡	56.1	53.1																				
Midwest	71.1	73.2	76.4	77.2	73.9	75.1	73.6	75.0	74.4	70.6	66.8	71.3	70.7	67.9	65.9	61.5	59.7	58.0‡	51.6	53.8																				
South	62.8	60.2	64.7	67.0	65.7	65.5	62.9	61.3	64.3	62.1	60.0	58.2	60.7	58.6	55.1	51.0	49.1	48.1‡	47.7	49.2																				
West	60.0	62.2	64.4	63.1	65.5	67.6	65.3	63.8	62.9	63.6	66.2	64.5	66.7	65.0	59.3	51.6	49.7	46.7‡	39.8	44.2																				
<b>Population Density</b>																																								
Large MSA	75.3	72.6	74.0	75.5	77.3	78.0	75.5	72.9	69.2	66.6	67.4	66.2	66.3	63.8	56.9	59.2	52.9	49.0‡	50.6	49.5																				
Other MSA	68.5	67.0	72.0	72.7	72.0	70.8	69.1	69.3	69.8	66.2	65.1	64.8	66.9	64.1	60.7	57.4	55.7	50.8‡	47.1	49.2																				
Non-MSA	63.2	66.5	67.8	68.4	67.3	69.0	68.9	67.6	69.0	69.0	65.9	65.2	65.5	63.8	61.7	54.4	52.0	54.1‡	49.8	52.5																				
<b>Parental Education <sup>b</sup></b>																																								
1.0–2.0 (Low)	58.7	62.5	62.0	62.7	64.6	65.9	62.1	61.3	61.2	58.1	58.7	56.1	56.3	54.5	47.8	47.2	49.9	45.6‡	36.6	43.5																				
2.5–3.0	70.0	71.4	72.5	71.9	71.1	72.0	70.7	69.4	69.2	67.4	65.9	65.3	67.0	64.6	59.7	57.2	53.3	52.3‡	49.0	49.9																				
3.5–4.0	69.2	67.9	73.5	75.0	74.6	73.3	71.5	72.7	70.4	69.6	66.9	66.7	67.2	64.3	62.9	57.7	54.3	51.2‡	51.2	50.1																				
4.5–5.0	69.6	71.3	74.5	77.0	76.0	74.4	73.1	74.5	73.1	69.3	68.9	68.0	68.8	66.0	62.1	60.8	54.8	51.0‡	49.8	52.6																				
5.5–6.0 (High)	67.3	72.5	77.1	79.2	75.9	77.2	77.4	74.1	75.0	70.3	67.9	69.9	70.5	67.3	62.2	60.8	58.0	55.7‡	53.2	52.2																				
<b>Race/Ethnicity (2-year average) <sup>c</sup></b>																																								
White	—	—	72.8	75.0	75.3	75.4	75.4	74.6	73.9	72.8	71.2	70.2	71.0	70.6	67.3	63.8	60.0	56.8	55.6‡	54.0																				
African American	—	—	49.5	48.7	47.2	47.6	46.7	46.0	47.7	45.5	42.8	42.1	39.4	39.8	39.5	35.8	33.7	31.7	32.4‡	33.8																				
Hispanic	—	—	63.0	64.5	63.8	63.6	62.0	60.3	59.1	59.7	58.1	56.3	57.2	57.8	52.9	49.1	51.5	53.8	50.5‡	45.9																				

(Table continued on next page.)

**TABLE 86 (cont.)**  
**ALCOHOL: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 30 days																			2012– 2013 change
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004 <sup>c</sup>	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Approximate weighted N =	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
Total	51.3	50.8	52.7	52.0	51.0	50.0	49.8	48.6	47.5	48.0	47.0	45.3	44.4	43.1	43.5	41.2	40.0	41.5	39.2	-2.3 s
Gender:																				
Male	55.7	54.8	56.2	57.3	55.3	54.0	54.7	52.3	51.7	51.1	50.7	47.3	47.1	45.8	47.8	44.2	42.1	43.8	41.8	-2.0
Female	47.0	46.9	48.9	46.9	46.8	46.1	45.1	45.1	43.8	45.1	43.3	43.0	41.4	40.9	38.9	37.9	37.5	38.8	36.3	-2.5
College Plans:																				
None or under 4 years	55.9	54.8	56.1	56.0	55.2	54.3	55.5	53.0	55.4	52.1	52.8	54.0	48.6	49.7	51.0	47.9	45.2	44.2	45.3	+1.1
Complete 4 years	49.6	49.3	51.4	50.9	49.8	48.3	47.9	47.4	45.2	47.0	45.5	43.2	43.3	41.7	41.6	39.3	38.8	40.7	37.9	-2.8 s
Region:																				
Northeast	55.0	56.5	56.7	56.2	57.2	58.0	54.3	50.9	51.6	53.9	54.5	52.4	51.8	49.1	48.4	49.2	46.3	48.1	45.7	-2.4
Midwest	55.3	51.5	51.5	51.9	51.1	52.3	54.5	52.1	50.8	49.5	48.0	46.3	47.9	42.8	45.0	40.8	41.2	41.8	39.0	-2.8
South	50.6	51.1	51.1	51.4	49.5	44.9	45.9	46.8	43.0	43.5	43.9	43.2	43.1	42.9	42.0	39.6	37.5	36.6	35.4	-1.2
West	43.2	42.1	52.7	49.2	47.8	48.3	44.9	45.0	47.0	47.3	43.6	41.3	36.6	39.2	39.2	37.4	38.0	43.1	39.8	-3.2
Population Density:																				
Large MSA	50.6	51.6	51.1	49.1	48.9	51.2	49.7	50.3	43.0	44.1	46.6	47.6	47.1	46.1	46.7	42.4	41.1	44.1	39.2	-4.9 s
Other MSA	50.6	50.1	53.4	53.9	52.8	48.8	49.6	48.8	49.6	51.7	47.6	43.9	42.1	40.4	41.5	41.6	41.1	41.8	40.8	-1.0
Non-MSA	53.4	51.4	52.9	51.6	50.1	50.8	50.0	45.9	49.6	45.5	46.1	44.7	45.2	45.8	43.7	38.5	35.8	36.9	35.3	-1.6
Parental Education: <sup>b</sup>																				
1.0–2.0 (Low)	45.9	41.2	43.8	43.8	46.8	43.4	42.9	42.2	43.6	42.1	38.2	44.4	38.3	41.4	39.8	36.4	36.7	41.4	36.1	-5.4
2.5–3.0	52.0	48.2	51.0	50.1	50.5	50.0	49.0	47.9	47.8	46.8	47.8	46.7	46.0	42.4	43.4	42.4	38.8	41.4	40.3	-1.1
3.5–4.0	50.6	51.4	52.1	55.6	51.1	51.3	51.4	50.9	47.9	52.4	47.8	46.3	43.6	43.2	46.9	41.6	41.2	42.7	41.1	-1.5
4.5–5.0	51.8	53.6	55.3	52.4	50.2	48.1	51.5	48.9	47.5	47.7	50.2	42.9	45.0	43.9	42.0	42.1	40.1	41.7	39.5	-2.2
5.5–6.0 (High)	55.1	54.2	57.4	54.7	56.0	54.0	49.5	51.1	49.3	47.4	46.0	48.2	47.6	45.9	43.3	38.4	41.9	41.1	38.7	-2.4
Race/Ethnicity (2-year average): <sup>c</sup>																				
White	54.5	54.8	56.4	57.7	56.3	55.1	55.3	54.0	52.3	52.2	52.3	50.7	49.3	48.6	47.2	45.4	43.8	43.8	43.6	-0.2
African American	35.2	36.5	34.3	33.3	32.2	30.0	29.4	30.1	29.9	29.2	29.0	29.2	28.7	28.6	30.5	31.4	30.1	29.6	28.4	-1.1
Hispanic	48.7	47.5	48.2	49.8	50.2	51.2	48.9	47.5	46.4	45.4	43.3	43.4	41.4	38.9	40.1	40.1	39.7	39.8	39.0	-0.8

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

Notes. ' ‡ ' indicates some change in the question. See relevant footnote. See relevant figure to assess the impact of the wording changes. Level of significance of difference between the two most recent classes:

s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>In 1993, the question text was changed slightly in three of six forms to indicate that a drink meant more than a few sips. The 1993 data are based on the changed forms only; *N* is three sixths of *N* indicated.

In 1994 the question text was changed in the remaining forms. Beginning in 1994, the data are based on all six forms. In 2004 the question text was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change. The remaining forms were changed in 2005.

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 87**  
**BEEN DRUNK: Trends in 30-Day Prevalence by Subgroups in Grade 8**

	Percentage who had been drunk in last 30 days																							2012– 2013 change	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
<i>Approximate weighted N =</i>	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600		
Total	7.6	7.5	7.8	8.7	8.3	9.6	8.2	8.4	9.4	8.3	7.7	6.7	6.7	6.2	6.0	6.2	5.5	5.4	5.4	5.0	4.4	3.6	3.5	-0.1	
Gender:																									
Male	8.4	7.4	7.8	9.0	8.2	9.7	8.4	8.5	10.2	8.2	7.8	7.1	6.6	5.8	5.9	6.1	5.3	5.3	5.3	4.8	4.4	3.3	3.0	-0.3	
Female	7.0	7.6	7.8	8.3	8.2	9.5	7.9	8.2	8.6	8.1	7.4	6.3	6.8	6.6	6.2	6.2	5.6	5.4	5.3	5.2	4.2	3.8	4.0	+0.2	
College Plans:																									
None or under 4 years	15.8	17.2	18.4	20.0	17.2	19.3	18.7	21.4	22.4	18.9	18.9	15.5	17.0	16.1	15.7	15.4	16.3	14.9	14.9	12.9	10.9	9.5	10.9	+1.4	
Complete 4 years	6.4	6.1	6.4	7.3	7.3	8.2	7.1	6.9	8.0	7.0	6.5	5.9	5.7	5.2	5.1	5.4	4.6	4.6	4.6	4.4	3.9	3.1	3.0	-0.1	
Region:																									
Northeast	5.7	6.4	6.2	8.2	8.2	9.7	7.9	6.9	9.4	8.3	8.0	5.3	4.9	4.8	4.2	5.8	3.5	4.5	4.7	4.2	2.9	3.5	2.7	-0.8	
Midwest	7.7	7.6	7.3	8.3	8.3	10.2	8.2	10.4	11.6	9.7	8.2	7.0	8.1	6.8	6.2	6.3	5.7	5.3	5.0	4.7	4.1	2.2	2.6	+0.4	
South	8.8	8.2	8.3	8.8	8.4	9.1	8.3	7.8	9.5	7.4	8.1	7.6	7.2	6.4	7.1	6.9	6.1	6.8	6.5	5.7	4.4	4.4	4.5	+0.1	
West	7.3	6.9	9.4	9.6	8.2	9.8	8.3	8.3	6.6	8.1	6.0	5.9	6.0	6.4	5.8	5.2	5.7	4.2	4.4	4.8	5.7	3.5	3.3	-0.2	
Population Density:																									
Large MSA	7.4	7.0	6.0	7.6	7.2	8.9	6.7	6.9	7.8	7.1	6.3	5.2	5.6	5.4	5.4	5.1	4.8	5.4	4.0	4.7	3.5	3.1	3.1	0.0	
Other MSA	7.3	7.4	8.4	9.7	8.9	9.9	8.6	7.5	8.4	7.2	7.9	7.3	6.8	6.5	6.1	6.4	5.6	5.2	5.8	5.2	4.8	4.1	3.3	-0.8	
Non-MSA	8.4	8.2	8.8	7.9	8.6	10.0	9.2	11.7	13.3	12.0	8.9	7.3	8.1	6.5	6.9	7.5	6.4	5.9	6.3	5.0	4.7	3.2	4.6	+1.4	
Parental Education: <sup>a</sup>																									
1.0–2.0 (Low)	13.4	11.0	10.4	12.5	13.1	11.1	11.5	13.1	14.5	14.0	12.1	10.5	13.4	10.0	9.3	9.4	10.6	10.1	10.1	7.8	7.9	6.0	6.4	+0.4	
2.5–3.0	9.2	8.8	9.2	9.3	9.6	11.9	9.3	9.5	11.7	10.5	9.7	8.5	9.4	7.4	8.4	7.9	7.9	7.4	6.3	7.1	6.6	5.6	4.6	-1.0	
3.5–4.0	6.9	7.6	8.5	9.3	9.4	10.4	10.2	9.1	9.9	8.0	8.7	6.7	7.1	6.8	6.7	7.1	6.0	5.8	5.4	5.3	4.8	4.1	4.3	+0.3	
4.5–5.0	6.1	6.5	5.9	7.5	6.4	8.7	6.7	7.0	6.9	5.6	5.7	5.5	4.5	5.0	4.6	4.4	3.1	3.7	4.4	4.2	3.2	2.6	2.4	-0.2	
5.5–6.0 (High)	6.8	4.9	6.7	7.6	6.0	7.1	5.8	6.9	8.7	7.1	4.6	4.8	4.2	4.4	3.5	4.6	3.1	3.3	3.4	2.6	2.7	1.6	2.2	+0.6	
Race/Ethnicity (2-year average): <sup>b</sup>																									
White	—	7.7	7.8	8.4	8.9	9.7	9.7	9.1	9.8	10.0	9.0	8.0	7.2	6.8	6.6	6.4	5.9	5.5	5.5	5.3	4.7	3.9	3.3	-0.6	
African American	—	5.4	5.1	5.6	5.6	5.5	4.6	3.9	4.9	4.7	4.0	4.0	4.2	4.1	3.8	3.6	3.7	3.8	3.6	3.4	2.9	2.7	3.0	+0.3	
Hispanic	—	9.9	9.9	10.8	10.8	10.8	10.4	9.8	9.9	8.5	7.8	8.4	8.5	8.1	7.0	7.2	7.4	6.7	6.2	5.8	5.6	5.5	4.5	-1.0	

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 88**  
**BEEN DRUNK: Trends in 30-Day Prevalence by Subgroups in Grade 10**

Percentage who had been drunk in last 30 days

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	2012– 2013 change	
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900		
Total	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	-1.6 s	
Gender:																									
Male	22.3	18.6	21.4	23.2	21.9	23.0	24.6	22.3	25.4	26.2	24.2	19.3	18.8	20.2	18.2	19.1	18.9	14.6	16.4	15.5	14.9	15.4	13.2	-2.2 s	
Female	18.7	17.5	18.1	17.2	19.6	19.8	20.2	19.9	19.8	20.9	19.7	17.4	17.7	17.0	16.8	18.4	17.4	14.3	14.8	13.7	12.4	13.5	12.4	-1.1	
College Plans:																									
None or under 4 years	29.5	26.3	29.0	31.1	31.4	32.0	35.5	33.5	34.6	35.1	34.8	27.4	27.4	27.5	27.8	29.0	28.9	25.2	26.8	27.0	23.8	23.1	18.5	-4.6 s	
Complete 4 years	18.6	16.4	17.9	18.0	19.0	19.7	20.3	19.1	20.7	21.8	19.8	16.8	16.9	17.4	16.3	17.5	16.8	13.2	14.4	13.3	12.6	13.7	12.3	-1.4	
Region:																									
Northeast	23.9	18.8	20.0	19.0	19.5	22.4	21.9	23.1	25.8	22.8	19.9	18.1	20.3	22.4	20.5	20.4	20.5	15.3	14.6	14.7	16.6	18.6	13.6	-5.0 s	
Midwest	21.8	18.9	20.1	21.0	22.6	22.0	23.3	21.8	26.0	27.6	24.0	18.7	18.8	16.6	17.4	19.8	19.6	16.0	15.0	15.3	11.9	12.8	11.4	-1.4	
South	19.2	16.8	19.8	20.9	20.9	21.4	22.0	21.9	20.3	21.4	21.5	17.5	17.6	18.7	17.2	17.6	16.3	14.9	16.6	14.5	14.0	15.0	13.9	-1.0	
West	18.2	18.3	19.0	19.5	19.5	19.3	22.6	17.0	19.0	22.4	21.2	19.5	16.5	16.7	15.2	17.9	16.9	11.8	15.5	14.3	13.0	12.1	12.4	+0.3	
Population Density:																									
Large MSA	20.6	17.6	17.6	16.1	18.2	19.6	20.7	17.2	21.6	23.4	19.5	16.5	15.7	15.1	16.2	17.7	16.3	12.7	15.3	14.2	12.9	14.9	12.8	-2.1	
Other MSA	20.1	17.3	18.2	21.7	21.8	21.9	21.8	21.2	22.7	22.5	21.6	18.0	18.6	20.5	18.3	19.0	18.5	14.8	15.3	14.8	14.1	13.7	13.0	-0.7	
Non-MSA	21.1	19.9	24.7	21.8	21.8	22.4	25.5	25.4	23.4	25.4	25.3	21.4	21.4	19.0	17.8	20.0	20.0	16.4	16.4	15.1	14.0	15.7	12.6	-3.0	
Parental Education: <sup>a</sup>																									
1.0–2.0 (Low)	20.9	18.2	22.2	20.0	23.4	22.1	19.7	20.1	21.8	21.3	22.0	17.3	19.0	17.7	15.8	18.4	17.7	16.9	19.7	18.2	13.6	15.7	15.1	-0.6	
2.5–3.0	22.5	18.5	21.4	21.2	22.9	23.4	22.5	23.3	23.4	24.5	22.6	19.9	18.9	21.0	19.4	21.6	19.9	15.0	17.6	16.4	15.8	14.9	13.6	-1.3	
3.5–4.0	20.4	19.4	19.4	22.1	21.4	22.1	24.1	21.3	23.3	24.5	22.8	19.5	19.3	18.9	17.5	19.9	19.1	15.7	16.4	14.3	14.8	14.7	13.4	-1.3	
4.5–5.0	19.7	17.1	18.2	18.7	19.7	19.5	22.3	20.2	21.7	24.1	21.4	17.4	17.5	17.3	17.5	17.4	16.8	13.3	13.8	13.9	12.1	15.0	12.1	-2.8 s	
5.5–6.0 (High)	20.6	18.5	18.6	17.9	17.9	22.3	22.4	20.4	24.0	23.1	21.5	16.8	17.7	19.3	17.0	17.6	17.7	14.2	14.6	13.2	13.1	14.6	12.3	-2.2	
Race/Ethnicity (2-year average): <sup>b</sup>																									
White	—	21.6	20.8	22.0	22.7	23.7	25.0	25.5	25.7	26.7	25.8	23.2	21.9	21.7	21.0	20.9	21.3	19.2	17.0	16.4	15.6	16.0	15.4	-0.6	
African American	—	9.4	10.3	10.1	9.8	8.5	8.6	8.8	7.6	8.6	9.5	8.6	8.0	8.3	8.0	7.8	8.3	8.0	8.4	9.3	8.3	7.6	7.2	-0.4	
Hispanic	—	16.2	15.9	17.0	18.6	20.1	19.5	18.0	17.8	18.0	18.7	17.4	15.7	17.0	17.3	16.6	15.0	14.0	14.9	15.7	13.8	12.5	13.1	+0.6	

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 89**  
**BEEN DRUNK: Trends in 30-Day Prevalence by Subgroups in Grade 12**

Percentage who had been drunk in last 30 days

	1975– 1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2012– 2013 change
Approximate weighted N =	—	15,000	15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
<b>Total</b>	—	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	-2.1
<b>Gender:</b>																									
Male	—	37.1	35.2	34.5	34.5	37.8	35.4	39.2	39.0	37.9	38.4	37.0	34.3	34.9	36.0	33.6	32.9	31.7	29.2	32.7	31.2	27.5	30.6	29.1	-1.5
Female	—	25.4	24.5	23.5	26.8	28.8	27.3	29.1	26.6	27.7	26.7	28.4	26.9	26.9	29.0	26.4	26.3	25.7	26.2	22.5	21.8	22.0	24.8	22.7	-2.1
<b>College Plans:</b>																									
None or under 4 years	—	32.2	31.4	32.6	32.2	37.6	31.4	38.1	33.7	36.1	35.0	36.3	31.7	37.6	34.7	34.3	37.2	30.6	32.0	31.0	32.9	27.9	29.6	28.9	-0.7
Complete 4 years	—	30.9	29.2	27.4	29.4	31.4	31.0	32.3	32.0	31.7	30.6	31.3	29.3	28.7	31.2	28.5	27.6	28.2	26.4	25.9	24.8	24.1	27.3	25.0	-2.4
<b>Region:</b>																									
Northeast	—	36.4	30.0	35.0	35.2	35.5	37.2	35.9	35.6	37.5	39.3	33.9	33.6	35.4	38.1	38.7	37.9	32.6	31.1	36.3	32.4	31.5	34.7	30.1	-4.7
Midwest	—	37.2	38.2	32.5	34.1	38.2	31.5	33.7	34.8	33.4	34.8	39.2	35.0	34.9	34.2	31.3	32.2	32.0	31.2	29.4	28.9	27.5	29.6	26.8	-2.9
South	—	26.5	25.2	26.4	29.1	31.2	31.0	34.5	30.1	30.8	26.5	28.8	28.4	25.9	29.3	26.9	27.4	26.5	25.5	23.6	24.9	21.5	22.2	21.7	-0.4
West	—	28.5	26.6	23.2	25.4	27.1	24.7	32.7	33.5	32.2	32.8	28.8	25.0	30.1	29.5	26.5	25.2	26.0	24.1	23.5	23.4	23.3	29.3	28.3	-1.0
<b>Population Density:</b>																									
Large MSA	—	30.4	26.1	29.4	28.7	32.0	31.5	31.5	32.2	29.2	30.5	30.6	32.9	25.4	27.4	28.2	30.4	29.8	31.4	29.8	26.6	23.8	30.7	25.6	-5.1
Other MSA	—	33.5	29.8	26.9	29.9	31.7	33.0	33.7	34.0	35.4	34.5	31.7	29.1	33.5	37.3	31.5	29.0	27.6	25.0	25.9	26.8	26.9	28.0	28.1	+0.1
Non-MSA	—	29.4	33.7	32.0	34.4	36.9	28.2	38.2	31.4	32.5	30.5	36.7	29.2	33.2	29.1	29.9	31.4	29.4	28.8	27.8	27.2	22.3	24.1	21.1	-3.0
<b>Parental Education:<sup>a</sup></b>																									
1.0–2.0 (Low)	—	20.4	20.5	23.6	25.7	25.4	18.8	23.7	24.6	20.8	28.4	22.2	20.0	25.6	25.5	22.0	27.7	19.7	26.7	19.8	22.4	19.1	19.7	25.7	+6.0
2.5–3.0	—	30.2	30.0	26.4	30.3	30.0	27.4	31.5	28.0	30.5	33.1	32.2	27.0	28.7	32.3	29.9	29.5	31.6	25.3	29.0	25.4	22.9	26.6	24.8	-1.9
3.5–4.0	—	31.0	31.3	29.2	29.9	34.4	31.1	32.7	34.1	34.0	31.2	32.0	32.4	30.6	35.1	31.3	31.0	26.8	28.2	28.2	28.6	26.3	29.5	25.6	-3.9
4.5–5.0	—	34.4	29.4	32.8	33.5	36.5	35.8	37.7	36.0	32.8	31.9	36.1	31.0	33.3	33.7	31.3	29.7	28.4	30.0	27.0	26.5	25.6	29.7	27.9	-1.8
5.5–6.0 (High)	—	40.5	34.3	30.4	30.7	34.9	34.6	39.8	39.9	40.6	35.5	33.6	34.5	33.4	32.6	32.2	30.1	33.0	27.8	29.0	26.5	27.5	30.5	27.1	-3.4
<b>Race/Ethnicity (2-year average):<sup>b</sup></b>																									
White	—	—	34.7	33.6	34.0	36.4	36.6	37.7	39.3	37.8	37.0	37.7	36.6	35.6	36.4	36.5	35.2	33.7	32.7	31.8	31.6	29.9	29.7	30.6	+0.8
African American	—	—	11.0	12.5	14.1	13.2	13.0	13.8	13.8	14.9	14.9	12.0	12.1	11.7	14.3	15.4	13.5	14.6	14.8	15.1	14.7	14.2	14.3	13.4	-0.8
Hispanic	—	—	27.2	24.8	23.0	24.2	26.2	26.9	25.9	27.5	29.8	25.5	23.5	23.9	24.1	22.2	23.1	24.0	22.2	21.7	20.5	20.0	21.2	22.7	+1.5

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on two of six forms; N is two sixths of N indicated in Table S3.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 90**  
**ALCOHOL: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 8**

	Percentage reporting 5+ drinks in a row on one or more occasions																							2012– 2013 change
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	10.9	11.3	11.3	12.1	12.3	13.3	12.3	11.5	13.1	11.7	11.0	10.3	9.8	9.4	8.4	8.7	8.3	8.1	7.8	7.2	6.4	5.1	5.1	0.0
Gender:																								
Male	12.1	11.6	12.4	13.2	12.5	14.1	13.0	12.1	14.0	11.7	11.5	10.4	10.2	8.8	8.2	8.6	8.2	8.1	7.8	6.5	6.1	4.6	4.5	-0.1
Female	9.6	10.8	10.3	11.1	12.1	12.4	11.5	10.8	12.0	11.3	10.2	10.0	9.4	9.9	8.6	8.5	8.2	8.0	7.7	7.8	6.5	5.5	5.7	+0.2
College Plans:																								
None or under 4 years	21.1	23.0	25.7	25.3	25.0	26.1	26.5	26.7	30.2	25.0	24.7	24.7	23.2	21.2	21.0	19.3	21.5	21.3	19.1	17.6	15.6	15.3	14.2	-1.1
Complete 4 years	9.3	9.7	9.4	10.5	10.8	11.3	10.7	9.8	11.2	10.1	9.4	9.0	8.4	8.2	7.2	7.6	7.1	7.0	6.8	6.3	5.7	4.4	4.5	+0.2
Region:																								
Northeast	8.6	8.8	8.1	10.9	11.1	12.8	10.9	9.7	12.4	11.5	10.5	8.4	7.8	8.1	6.0	7.8	5.6	7.1	8.2	6.2	3.7	4.3	4.2	-0.2
Midwest	11.5	12.5	10.9	11.5	12.2	13.5	12.0	12.4	15.5	13.2	10.8	10.5	10.8	10.1	8.7	8.8	7.5	8.2	7.0	6.5	6.1	2.6	4.1	+1.5
South	11.9	12.3	12.9	12.4	13.0	13.7	13.2	11.9	13.3	11.0	12.5	11.4	10.6	9.6	9.8	9.7	9.4	9.7	8.8	8.4	7.1	6.3	6.4	+0.1
West	10.2	10.4	12.8	13.8	12.3	12.9	12.3	11.6	10.3	10.9	9.0	9.9	9.0	9.5	8.0	7.6	8.9	6.3	6.6	6.6	8.0	6.1	4.8	-1.3
Population Density:																								
Large MSA	10.6	10.4	8.6	10.4	10.3	12.2	11.3	10.1	11.0	10.6	9.2	8.3	8.8	8.7	8.0	8.1	7.4	8.1	6.4	6.5	5.8	4.5	4.9	+0.4
Other MSA	10.5	11.7	12.3	13.1	12.2	13.7	12.1	10.9	12.1	10.5	11.0	10.8	8.9	9.3	8.3	8.3	8.5	7.9	8.2	7.6	6.6	5.6	5.0	-0.6
Non-MSA	12.0	11.7	12.9	12.1	15.0	14.2	13.9	14.3	17.4	15.3	13.1	11.8	12.9	10.5	9.2	10.2	9.2	8.4	8.9	7.0	7.0	5.1	5.8	+0.7
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	18.3	17.8	16.3	16.8	20.1	16.9	17.6	16.5	20.8	18.9	16.5	16.6	16.3	14.9	14.4	13.3	15.5	17.0	15.2	12.0	11.0	9.5	9.5	0.0
2.5–3.0	12.6	13.4	13.3	14.2	14.8	15.4	13.5	13.8	17.0	15.3	14.3	12.8	13.5	12.1	10.7	10.6	10.5	10.5	9.5	9.3	8.8	7.6	6.7	-0.9
3.5–4.0	10.7	11.3	11.5	12.5	13.3	14.3	14.2	12.4	14.0	11.0	11.7	11.1	10.5	10.0	9.4	9.9	9.2	7.9	8.7	8.0	7.2	5.3	6.4	+1.0
4.5–5.0	8.8	8.7	8.5	10.3	9.3	11.1	10.3	9.3	9.5	8.2	8.1	7.9	6.7	8.0	6.4	6.7	5.5	5.7	5.3	5.7	4.6	3.8	3.0	-0.7
5.5–6.0 (High)	8.8	8.4	8.9	9.1	8.7	10.7	9.0	9.4	9.2	9.5	6.6	7.3	6.8	6.2	5.0	5.9	5.0	4.7	4.7	4.3	4.1	2.0	3.9	+1.9 ss
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	11.2	10.9	11.1	12.1	13.2	13.3	12.3	12.6	13.0	11.9	10.9	10.0	9.6	9.0	8.4	8.0	7.8	7.7	7.1	6.2	4.9	4.2	-0.6
African American	—	6.5	7.6	8.6	8.3	8.0	7.5	6.9	7.7	7.3	6.4	7.1	7.5	6.9	6.1	5.7	5.6	5.7	5.2	5.3	5.1	4.3	4.5	+0.2
Hispanic	—	16.5	17.7	18.9	18.4	17.5	17.4	16.9	17.4	16.0	14.4	14.4	13.8	13.2	12.1	11.6	12.5	12.3	11.5	10.8	10.4	9.9	7.8	-2.1

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.



**TABLE 91**  
**ALCOHOL: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 10**

	Percentage reporting 5+ drinks in a row on one or more occasions																						2012– 2013 change	
<i>Approximate weighted N =</i>	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	21.0	19.1	21.0	21.9	22.0	22.8	23.1	22.4	23.5	24.1	22.8	20.3	20.0	19.9	19.0	19.9	19.6	16.0	17.5	16.3	14.7	15.6	13.7	-1.9 s
Gender:																								
Male	24.1	21.5	24.1	26.4	24.1	25.1	26.3	24.7	27.4	27.6	26.1	21.6	21.1	21.6	19.9	21.0	20.9	16.6	18.8	17.9	16.5	16.4	14.7	-1.6
Female	18.1	17.0	17.7	17.3	19.7	20.4	20.1	20.4	20.0	20.6	19.7	19.0	19.0	18.1	17.9	18.9	18.3	15.4	16.1	14.6	12.7	14.8	12.5	-2.3 s
College Plans:																								
None or under 4 years	30.5	28.6	31.8	34.1	34.5	35.7	36.9	35.7	36.5	36.7	37.2	31.0	31.5	29.6	31.3	30.8	30.7	29.1	29.9	30.5	27.1	25.9	21.7	-4.2
Complete 4 years	19.1	17.2	18.8	19.3	19.8	20.7	20.8	20.2	21.5	22.2	20.5	18.5	18.2	18.6	17.3	18.6	18.2	14.4	16.1	14.6	13.4	14.6	12.8	-1.8 s
Region:																								
Northeast	23.7	18.0	21.1	19.9	20.3	22.3	21.8	24.1	26.0	23.8	20.7	19.5	21.5	23.8	21.0	21.2	20.4	16.8	16.4	15.2	16.8	19.5	14.5	-5.0 s
Midwest	21.7	19.8	22.0	23.0	23.3	23.4	22.4	22.2	25.0	26.2	24.8	20.3	19.9	16.7	18.8	20.0	20.7	16.5	17.2	16.2	13.0	13.8	12.3	-1.5
South	20.8	18.9	20.4	22.9	22.4	23.5	23.4	23.1	22.1	22.5	22.1	19.7	19.1	20.1	18.6	19.1	18.4	16.3	18.4	16.7	15.4	16.2	15.0	-1.2
West	18.6	19.8	20.0	20.4	21.1	21.4	25.3	19.9	21.7	24.6	23.1	22.2	20.1	19.6	17.6	20.1	19.5	14.4	17.4	16.9	14.1	13.2	12.8	-0.4
Population Density:																								
Large MSA	20.2	17.5	19.1	17.6	18.4	20.5	20.4	18.3	22.4	24.0	20.8	17.6	18.0	16.9	17.4	19.2	17.9	14.5	16.7	16.0	14.3	15.9	13.7	-2.2
Other MSA	20.4	18.1	19.2	22.7	22.1	23.0	22.9	22.0	22.7	23.4	21.7	20.4	19.9	21.6	19.4	19.7	19.6	16.0	17.0	16.5	14.7	14.8	13.7	-1.1
Non-MSA	22.9	22.8	25.8	24.6	25.9	25.3	26.6	28.0	26.7	25.7	27.2	23.8	23.4	20.1	20.3	21.9	22.5	18.1	19.8	16.7	15.4	16.6	13.7	-3.0
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	23.2	23.0	24.3	22.6	26.7	24.7	22.7	24.1	25.2	24.7	23.0	23.9	24.4	23.0	21.0	19.8	22.0	20.6	25.7	22.8	17.6	20.5	17.8	-2.7
2.5–3.0	23.8	20.0	23.4	23.4	24.7	25.5	23.5	25.5	26.3	27.0	24.6	22.5	21.8	21.9	21.3	22.8	22.6	17.8	19.6	19.5	17.1	17.3	15.1	-2.1
3.5–4.0	19.9	19.2	20.6	23.3	22.8	23.7	24.6	22.8	23.6	23.8	24.2	20.7	20.5	20.4	18.9	21.2	20.7	16.6	18.4	16.3	15.8	15.0	13.6	-1.5
4.5–5.0	19.3	18.1	18.6	20.2	20.2	20.3	21.6	20.1	21.3	23.3	21.5	17.7	17.8	18.2	17.9	18.1	17.7	14.7	14.7	14.1	12.7	15.4	12.5	-2.9 s
5.5–6.0 (High)	20.9	18.4	18.9	18.5	17.3	22.4	22.4	20.1	23.6	23.1	21.2	18.7	18.4	19.0	17.9	19.0	17.2	12.8	14.8	13.1	12.3	14.7	12.1	-2.6
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	21.6	21.4	22.9	23.8	24.5	25.2	25.3	25.4	26.2	25.6	23.6	22.5	22.2	21.8	21.7	21.8	19.7	17.9	17.2	16.1	16.3	15.7	-0.6
African American	—	12.3	11.9	11.8	11.1	9.4	10.0	10.6	10.7	10.8	10.3	10.0	9.8	9.7	9.1	9.1	10.0	9.8	9.8	10.7	9.4	8.2	8.6	+0.3
Hispanic	—	20.3	20.5	20.9	23.3	25.7	24.4	23.6	24.4	25.1	24.8	23.3	22.9	23.3	22.4	21.2	20.1	19.6	20.6	22.2	19.7	17.1	16.9	-0.3

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 92**  
**ALCOHOL: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12**

	Percentage reporting 5+ drinks in a row on one or more occasions																				→ (Years cont.)
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	
<i>Approximate weighted N =</i>	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
Total	36.8	37.1	39.4	40.3	41.2	41.2	41.4	40.5	40.8	38.7	36.7	36.8	37.5	34.7	33.0	32.2	29.8	27.9	27.5	28.2	
Gender:																					
Male	49.0	47.9	50.0	51.4	51.9	52.1	51.6	49.8	50.4	47.5	45.3	46.1	46.1	43.0	41.2	39.1	37.8	35.6	34.6	37.0	
Female	26.4	25.9	29.3	29.6	30.9	30.5	30.8	31.1	31.0	29.6	28.2	28.1	29.2	26.5	24.9	24.4	21.2	20.3	20.7	20.2	
College Plans:																					
None or under 4 years	—	41.8	44.7	44.3	44.5	46.3	46.7	45.7	44.9	43.5	41.6	41.3	42.7	38.5	38.2	35.8	34.4	32.8	32.7	34.0	
Complete 4 years	—	31.5	33.9	35.9	37.7	36.9	37.4	36.5	37.2	34.6	33.0	34.1	35.0	32.8	30.5	30.3	27.9	26.0	25.8	26.3	
Region:																					
Northeast	43.0	40.8	40.0	43.5	47.4	48.0	49.3	43.3	42.2	42.9	42.4	37.1	37.2	34.3	33.3	37.2	33.4	25.8	30.3	29.2	
Midwest	40.6	42.8	44.5	45.3	44.8	45.4	44.9	47.9	47.2	44.3	39.7	42.6	43.5	39.9	40.4	37.9	34.6	34.6	30.1	31.9	
South	32.1	30.8	36.3	36.4	36.7	34.4	34.7	34.6	37.6	33.5	29.7	31.7	33.4	30.4	28.5	27.2	26.3	24.7	27.1	26.9	
West	29.0	32.8	34.2	33.3	34.0	36.0	35.6	32.5	33.3	34.5	36.1	35.9	36.6	35.4	30.8	26.3	26.3	26.0	22.0	24.5	
Population Density:																					
Large MSA	37.9	37.0	38.1	39.5	42.2	44.8	43.4	40.9	38.8	37.9	37.6	36.4	34.8	32.5	28.8	34.5	28.6	25.5	27.6	26.8	
Other MSA	36.1	36.8	39.5	40.1	40.8	38.9	39.5	39.7	41.0	37.3	35.4	35.5	38.6	35.3	33.7	31.8	30.1	27.0	26.5	27.1	
Non-MSA	36.9	38.0	40.5	41.3	40.9	41.4	42.2	41.3	42.0	41.2	37.6	39.1	38.3	35.9	35.8	30.6	30.4	31.9	29.2	31.5	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	31.6	34.1	35.6	36.3	36.0	37.0	37.0	35.3	37.2	34.8	31.8	31.7	33.9	30.7	25.4	25.3	26.8	23.4	21.9	24.0	
2.5–3.0	37.5	41.1	41.8	40.9	42.3	43.3	43.2	41.4	41.2	39.8	38.2	37.9	38.9	35.7	34.0	32.7	29.9	28.1	27.6	28.5	
3.5–4.0	35.1	36.4	39.5	41.3	41.4	42.1	42.4	42.4	40.9	39.3	36.9	37.9	38.3	34.7	34.3	32.0	30.4	27.9	28.4	28.4	
4.5–5.0	34.4	36.9	37.2	42.4	43.8	40.8	40.8	41.9	41.9	38.6	37.1	37.1	37.2	35.1	34.2	34.5	29.9	28.1	28.4	29.3	
5.5–6.0 (High)	29.9	34.5	41.1	37.2	41.9	38.5	39.3	40.9	42.1	38.2	34.9	36.7	37.2	34.7	31.8	34.1	30.6	30.4	29.0	29.0	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	—	—	40.5	42.4	43.5	44.3	44.9	44.9	44.5	43.6	41.5	40.3	40.9	40.0	37.9	36.6	34.6	32.1	31.3	31.5	
African American	—	—	19.0	19.3	18.9	17.7	17.1	17.1	18.3	17.2	15.7	16.4	15.8	15.2	15.7	14.4	11.7	11.3	12.6	14.4	
Hispanic	—	—	36.4	37.2	33.6	33.1	34.8	32.9	32.5	33.0	31.7	30.8	33.0	33.7	28.8	25.6	27.9	31.1	27.2	24.3	

(Table continued on next page.)

**TABLE 92 (cont.)**  
**ALCOHOL: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12**

	Percentage reporting 5+ drinks in a row on one or more occasions																			2012– 2013 change	
	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005<sup>c</sup></u>	<u>2006<sup>c</sup></u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>		
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	29.8	30.2	31.3	31.5	30.8	30.0	29.7	28.6	27.9	29.2	27.1	25.4	25.9	24.6	25.2	23.2	21.6	23.7	22.1	-1.6	
Gender:																					
Male	36.9	37.0	37.9	39.2	38.1	36.7	36.0	34.2	34.2	34.3	32.6	28.9	30.7	28.4	30.5	28.0	25.5	27.2	26.1	-1.1	
Female	23.0	23.5	24.4	24.0	23.6	23.5	23.7	23.0	22.1	24.2	21.6	21.5	21.5	21.3	20.2	18.4	17.6	19.7	18.1	-1.6	
College Plans:																					
None or under 4 years	35.2	33.9	36.2	36.3	35.4	35.7	35.9	34.0	34.5	34.6	34.3	32.3	30.8	31.5	31.3	32.1	27.4	27.5	29.2	+1.7	
Complete 4 years	27.8	28.8	29.5	30.0	29.5	27.6	27.8	27.2	25.9	27.6	25.1	23.7	24.7	23.2	23.8	21.2	20.4	22.6	20.6	-2.0	
Region:																					
Northeast	31.2	33.7	33.5	33.5	33.7	35.1	31.8	30.7	30.9	33.2	32.2	30.9	29.7	27.3	28.9	28.7	26.1	29.0	26.6	-2.5	
Midwest	34.3	31.5	31.6	32.6	31.6	33.9	34.5	33.4	32.5	30.2	29.1	26.5	28.9	25.2	28.8	24.6	24.3	24.8	22.7	-2.0	
South	28.6	30.2	30.6	30.7	30.0	24.9	26.6	26.8	23.7	26.1	24.2	23.9	25.4	24.7	23.1	21.0	18.8	19.6	18.6	-1.0	
West	24.2	24.0	29.6	29.5	28.6	29.3	26.0	23.9	26.5	28.6	24.5	22.0	20.5	21.9	20.9	20.7	19.9	24.1	23.1	-0.9	
Population Density:																					
Large MSA	28.3	29.8	29.9	27.9	27.1	29.7	29.0	29.9	23.3	25.5	26.5	26.6	28.0	25.8	25.7	23.0	21.7	25.1	21.3	-3.8 s	
Other MSA	28.4	30.3	31.1	33.1	32.2	29.3	29.0	28.0	29.8	31.9	27.4	25.0	24.2	22.5	24.1	23.6	22.5	23.3	23.3	0.0	
Non-MSA	34.0	30.5	33.2	32.4	32.4	31.7	31.9	28.2	30.5	28.2	27.0	24.5	26.4	28.1	27.2	22.4	19.6	22.4	20.5	-1.9	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	26.6	24.8	22.6	26.3	27.4	25.1	24.8	22.2	23.5	22.9	19.4	25.4	20.4	21.3	23.2	20.1	17.9	23.6	21.5	-2.1	
2.5–3.0	31.2	28.6	30.4	30.3	30.8	29.2	30.2	28.5	27.6	28.8	28.3	25.8	27.3	23.0	24.6	24.6	21.1	23.9	23.1	-0.8	
3.5–4.0	29.5	29.8	31.0	33.2	30.5	30.5	30.3	28.6	28.4	30.9	27.6	26.5	24.8	25.1	27.6	23.3	23.2	24.3	23.9	-0.4	
4.5–5.0	29.9	32.4	32.4	32.3	30.6	29.9	30.9	30.9	28.6	30.5	29.4	24.0	27.5	26.2	24.4	24.2	21.4	23.6	21.4	-2.2	
5.5–6.0 (High)	30.7	33.1	34.9	32.4	34.2	32.7	28.6	30.6	28.7	27.8	25.2	26.3	27.1	26.4	25.6	21.2	22.1	22.8	20.3	-2.5	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	32.3	33.4	35.1	36.4	35.7	34.6	34.5	33.7	32.4	32.5	32.5	30.4	29.7	29.9	29.0	27.6	25.9	25.7	25.6	-0.1	
African American	14.9	15.3	13.4	12.3	12.3	11.5	11.8	11.5	10.8	11.4	11.3	11.4	11.5	10.9	12.0	13.1	11.3	11.3	12.5	+1.2	
Hispanic	26.6	27.1	27.6	28.1	29.3	31.0	28.4	26.4	25.9	26.0	23.9	23.3	22.5	21.5	22.6	22.1	20.8	21.8	22.4	+0.7	

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

*Notes.* Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 93**  
**BEER: Trends in 30-Day Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 30 days																						2012– 2013 change		
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>		
<i>Approximate weighted N =</i>	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600		
Total	16.2	16.9	17.4	18.3	18.8	18.4	16.7	16.2	16.6	15.2	15.0	12.3	12.0	14.4	12.8	12.5	12.2	11.8	10.0	10.6	9.8	7.9	6.8	-1.0	
Gender:																									
Male	19.1	18.6	19.1	21.2	20.4	19.9	18.6	17.7	19.4	16.8	16.5	12.2	12.4	14.0	12.9	13.0	11.3	12.3	10.6	11.3	10.2	8.5	6.9	-1.5	
Female	13.5	15.3	16.1	16.0	17.0	17.1	14.6	14.7	14.1	13.5	13.6	12.2	11.4	14.6	12.9	11.9	12.2	11.2	9.2	10.1	9.2	7.2	6.6	-0.6	
College Plans:																									
None or under 4 years	26.4	27.7	32.2	32.8	36.0	33.0	33.9	32.6	35.5	29.6	32.9	27.4	28.7	26.4	26.3	24.7	27.3	30.5	20.9	26.1	16.6	19.5	14.5	-5.0	
Complete 4 years	14.6	15.4	15.6	16.6	16.8	16.3	14.6	14.4	14.3	13.8	12.9	11.1	10.2	13.1	11.5	11.4	10.8	10.3	9.0	9.4	9.4	7.0	6.3	-0.7	
Region:																									
Northeast	14.0	14.0	14.9	18.6	19.3	21.7	18.4	14.7	18.5	14.2	18.7	10.8	12.3	15.1	11.4	11.4	9.5	10.4	9.2	10.4	6.8	6.8	5.0	-1.9	
Midwest	16.4	18.0	16.7	18.0	17.4	19.3	16.8	18.4	17.5	17.0	13.2	10.2	14.0	15.9	11.4	13.2	10.6	12.5	8.4	10.2	9.1	5.0	7.0	+2.1	
South	17.8	18.5	19.1	18.2	20.1	16.6	15.5	16.1	17.2	14.2	14.3	14.0	11.4	14.4	15.0	13.3	14.0	14.1	12.2	12.2	10.5	8.8	8.2	-0.6	
West	14.9	15.1	18.0	18.8	17.6	17.8	17.2	15.1	12.6	15.7	15.3	13.9	10.3	12.2	11.4	11.4	12.0	8.9	8.8	8.6	11.7	10.1	5.6	-4.5 ss	
Population Density:																									
Large MSA	15.0	18.7	15.1	15.2	12.0	16.2	15.0	13.8	14.3	14.0	12.0	11.5	11.0	14.2	11.4	11.9	10.3	13.0	8.9	9.0	8.2	7.4	6.6	-0.8	
Other MSA	16.1	16.8	17.6	19.4	19.1	19.6	15.9	14.3	16.5	14.1	15.5	12.4	11.9	13.9	13.6	12.1	12.3	11.3	9.5	10.9	9.9	8.6	7.5	-1.2	
Non-MSA	17.8	15.4	19.8	18.3	21.8	18.8	19.6	22.7	19.4	18.8	17.2	13.2	13.5	15.6	13.1	14.3	14.6	11.3	12.5	12.3	12.0	6.9	5.9	-1.0	
Parental Education: <sup>a</sup>																									
1.0–2.0 (Low)	22.0	22.5	21.5	24.4	23.9	19.7	21.6	21.9	25.4	23.2	21.3	24.1	17.1	23.7	22.6	17.3	21.0	21.3	15.0	13.6	15.4	12.1	11.8	-0.3	
2.5–3.0	18.2	18.4	19.5	19.7	22.8	21.3	21.2	17.4	19.7	20.7	18.4	14.8	15.1	17.8	15.8	16.8	19.5	16.7	13.2	14.6	12.5	9.6	8.3	-1.4	
3.5–4.0	15.7	18.0	19.4	19.7	19.6	20.2	18.5	17.9	16.9	13.5	18.1	13.5	14.3	15.0	13.9	13.6	10.6	13.1	10.6	11.5	11.4	8.4	8.1	-0.3	
4.5–5.0	14.4	13.4	14.9	15.3	15.6	17.8	12.7	12.6	12.3	12.0	10.0	8.4	7.4	11.9	11.2	9.4	9.3	8.8	8.6	8.8	7.5	6.3	6.1	-0.2	
5.5–6.0 (High)	13.5	14.6	14.4	17.2	14.2	13.2	14.1	17.0	16.0	11.4	9.7	10.3	10.2	13.3	6.7	9.3	6.7	7.0	6.5	6.5	7.4	4.7	4.9	+0.3	
Race/Ethnicity (2-year average): <sup>b</sup>																									
White	—	16.7	17.6	17.9	19.0	19.7	18.8	17.4	17.4	16.8	15.5	13.5	12.0	13.5	14.0	12.7	11.5	11.5	11.2	10.7	10.2	8.2	6.8	-1.4	
African American	—	12.6	13.0	15.8	14.5	11.1	9.7	8.1	9.7	9.7	7.9	7.2	7.5	8.1	7.6	8.5	9.0	7.4	6.3	5.6	5.9	5.8	4.2	-1.5	
Hispanic	—	23.9	24.2	22.2	23.3	23.7	21.8	19.9	19.5	19.8	20.7	21.8	19.6	18.4	18.3	17.1	17.8	17.8	14.9	13.3	14.0	13.8	11.3	-2.4	

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996;  $N$  is one half of  $N$  indicated in Table S1. Data based on one of four forms beginning in 1997;  $N$  is one third of  $N$  indicated in Table S1.

**Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.**

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 94**  
**BEER: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 30 days																					2012– 2013 change		
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>		<u>2012</u>	<u>2013</u>
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	31.1	28.9	28.7	30.2	29.9	30.5	30.4	28.3	29.5	30.6	28.0	24.6	23.2	26.5	24.8	26.8	24.4	22.4	22.6	22.4	19.6	19.6	18.4	-1.2
Gender:																								
Male	37.6	33.1	33.3	37.3	33.5	34.7	34.1	32.5	35.4	35.4	33.7	28.7	27.9	30.7	26.5	29.2	26.8	24.5	25.2	26.3	23.0	22.1	21.0	-1.1
Female	25.2	25.1	24.2	23.3	26.2	26.7	27.1	24.3	23.8	25.6	22.9	20.9	19.3	22.3	23.1	24.0	21.8	20.6	19.8	18.4	16.1	17.3	15.7	-1.5
College Plans:																								
None or under 4 years	39.4	37.5	37.4	41.4	41.9	44.8	43.8	40.5	43.7	42.7	42.3	37.2	30.3	36.4	36.4	39.2	39.2	38.1	38.0	36.9	31.0	27.6	26.9	-0.8
Complete 4 years	29.4	27.2	26.9	28.0	27.8	28.1	28.2	26.1	27.0	28.6	25.9	22.7	22.2	25.1	23.2	25.2	22.6	20.4	20.9	20.6	18.4	18.7	17.4	-1.3
Region:																								
Northeast	37.1	29.4	32.0	31.9	31.7	33.1	33.2	31.0	34.7	31.7	27.0	23.8	25.6	30.4	25.2	31.4	27.3	24.9	23.3	22.3	22.9	23.6	19.7	-3.9
Midwest	31.7	29.4	29.1	31.6	31.1	30.4	30.1	27.8	29.8	33.1	29.0	25.6	23.3	22.1	26.2	25.5	24.7	23.0	21.3	21.3	16.6	16.6	14.1	-2.5
South	29.4	28.4	26.6	29.5	29.4	30.6	28.5	27.2	27.8	27.1	26.6	22.6	21.9	27.2	23.6	25.0	21.2	22.7	23.5	22.2	20.8	20.9	21.5	+0.7
West	28.4	28.8	28.7	27.5	27.3	28.1	31.1	28.1	26.6	32.6	30.6	27.6	22.6	27.0	24.4	27.2	25.8	19.7	21.8	23.8	19.0	17.6	17.7	+0.1
Population Density:																								
Large MSA	31.0	30.1	28.8	28.9	23.9	28.9	28.8	24.3	29.3	30.1	25.5	22.5	21.6	23.4	21.8	25.5	24.6	21.7	22.1	22.0	18.3	21.6	16.3	-5.3 s
Other MSA	28.9	27.4	26.4	30.8	30.3	30.1	31.2	28.9	29.4	29.8	26.2	24.7	22.9	27.0	25.2	27.5	22.4	21.8	22.6	22.1	20.7	18.9	19.0	+0.1
Non-MSA	35.2	30.8	32.8	30.0	32.2	33.0	30.5	31.4	30.0	32.7	34.4	27.1	26.1	29.3	27.9	27.3	28.7	24.8	23.1	23.5	19.6	18.2	19.8	+1.6
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	33.5	27.7	33.3	30.0	34.0	28.9	28.6	29.3	26.5	26.7	26.7	22.4	26.3	28.7	28.9	27.8	28.9	29.2	26.8	30.4	25.9	23.1	20.6	-2.6
2.5–3.0	32.0	30.3	28.4	31.1	33.0	31.1	30.3	30.9	32.3	30.8	27.2	28.6	24.1	30.3	29.1	30.7	29.7	25.7	25.7	26.8	22.7	21.1	23.3	+2.2
3.5–4.0	31.4	29.9	29.0	31.3	30.1	30.9	31.3	30.0	29.5	32.3	29.0	25.1	24.3	26.2	23.8	28.4	25.4	23.5	22.8	23.3	20.6	18.8	18.0	-0.8
4.5–5.0	29.9	27.7	28.0	30.3	28.5	29.0	31.4	25.0	27.4	32.4	27.7	22.7	21.9	26.4	24.4	23.4	21.5	20.6	20.3	18.5	16.3	19.7	16.8	-2.9
5.5–6.0 (High)	30.7	27.4	28.1	27.1	26.5	33.7	30.7	26.5	31.1	28.7	30.4	21.9	21.0	24.2	21.7	26.0	20.5	17.3	20.0	18.8	17.0	19.9	16.8	-3.1
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	31.7	30.2	31.1	32.1	32.5	32.4	31.9	32.2	33.1	31.7	28.7	27.0	27.5	28.2	28.4	27.8	25.3	23.9	23.3	21.6	21.0	20.3	-0.6
African American	—	20.9	20.3	19.0	18.8	15.9	15.6	13.1	10.0	13.5	14.8	11.6	10.2	11.3	12.5	11.9	9.7	10.0	11.7	12.5	12.2	8.2	6.9	-1.4
Hispanic	—	32.2	29.6	29.3	31.2	31.9	31.3	29.8	28.3	28.9	30.7	28.6	25.1	27.8	31.3	30.7	29.3	28.2	28.0	29.9	28.3	24.4	23.3	-1.1

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996; N is one half of N indicated in Table S2. Data based on one of four forms beginning in 1997; N is one third of N indicated in Table S2.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 95**  
**BEER: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 30 days																			→ (Years cont.)	
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993		1994
<i>Approximate weighted N =</i>	—	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
Total	—	59.8	62.1	62.3	63.7	62.9	62.7	60.3	61.7	59.5	56.7	55.5	56.2	53.3	51.4	47.2	47.2	42.0	43.4	42.6	
Gender:																					
Male	—	68.6	73.1	73.0	74.0	74.3	71.4	68.3	69.7	67.4	64.5	64.3	64.9	61.8	59.7	55.7	55.3	50.1	50.0	51.2	
Female	—	51.3	52.8	52.7	54.5	52.4	53.9	52.7	54.0	51.8	49.4	47.9	48.1	46.3	43.4	38.0	39.3	34.6	37.2	35.6	
College Plans:																					
None or under 4 years	—	62.1	64.6	65.2	65.7	68.3	65.0	64.6	62.4	62.7	59.8	54.2	58.2	57.3	55.5	46.5	52.4	48.8	48.2	47.1	
Complete 4 years	—	57.6	60.3	59.5	61.6	58.4	61.0	57.4	61.1	57.4	55.1	55.7	55.1	51.8	49.4	47.5	45.2	39.9	41.5	41.6	
Region:																					
Northeast	—	64.9	65.9	64.7	71.9	67.6	67.1	65.7	68.3	62.6	64.4	51.5	56.8	54.8	54.2	52.7	49.5	40.8	47.0	43.3	
Midwest	—	65.4	66.9	68.3	66.1	64.9	67.5	66.1	66.6	66.8	57.4	66.3	61.4	59.8	58.5	50.3	53.5	49.1	46.3	48.0	
South	—	53.2	55.3	58.4	59.2	60.3	57.5	53.0	56.5	53.7	51.0	48.6	52.1	47.6	46.1	42.0	41.1	39.5	43.0	40.4	
West	—	52.8	59.4	54.2	56.1	57.7	56.9	52.8	53.8	55.3	56.4	54.4	54.8	52.7	48.5	45.4	46.0	36.7	37.0	38.2	
Population Density:																					
Large MSA	—	62.5	64.2	62.8	65.3	67.7	63.8	63.3	63.1	58.8	56.0	55.1	56.9	52.6	50.1	52.3	44.4	42.3	44.0	42.8	
Other MSA	—	58.6	62.0	62.4	62.3	62.1	61.9	58.6	59.4	56.6	56.8	55.1	56.4	53.0	51.6	47.3	47.6	40.3	42.0	39.4	
Non-MSA	—	59.3	60.7	61.7	64.4	60.5	63.0	60.0	63.6	63.7	57.3	56.3	55.4	54.3	52.1	42.4	48.8	45.1	45.3	47.6	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	—	58.5	48.3	54.6	52.9	55.9	54.7	56.8	58.8	51.1	52.2	46.8	55.8	47.1	45.3	42.2	48.1	36.6	41.1	37.0	
2.5–3.0	—	62.7	64.8	63.6	64.5	66.1	65.4	58.5	59.8	62.4	56.8	54.6	53.6	51.9	52.4	47.5	46.7	41.4	43.7	44.4	
3.5–4.0	—	58.4	66.0	62.7	67.1	64.4	64.0	63.9	62.3	61.2	57.9	56.0	56.0	51.5	52.2	45.8	48.4	40.7	44.4	42.2	
4.5–5.0	—	62.6	64.4	64.7	68.4	58.4	60.1	60.0	66.2	61.9	60.5	57.6	59.9	58.2	51.4	49.3	46.4	43.8	41.9	41.1	
5.5–6.0 (High)	—	64.1	69.3	68.3	63.6	69.3	68.9	68.3	65.9	54.2	55.4	62.5	57.7	57.4	53.2	53.4	46.1	47.0	47.7	46.6	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	—	—	63.8	65.2	65.9	66.3	66.3	65.4	64.6	64.6	62.2	59.9	59.6	59.1	57.0	54.1	51.6	48.3	46.0	46.5	
African American	—	—	38.7	36.4	37.4	38.7	38.8	37.2	39.2	36.9	33.1	32.7	28.6	30.3	32.6	28.4	25.3	24.2	28.0	29.9	
Hispanic	—	—	52.7	54.3	52.3	52.5	47.7	47.5	43.4	40.7	46.5	50.9	55.4	49.2	40.4	36.6	40.3	44.7	39.8	40.5	

(Table continued on next page.)

**TABLE 95 (cont.)**  
**BEER: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 30 days																			2012– 2013 change	
	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>		
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	44.9	46.9	44.4	45.6	42.7	42.7	41.5	39.7	37.8	38.3	38.0	35.5	36.6	33.7	34.9	31.7	29.0	32.2	30.8	-1.4	
Gender:																					
Male	53.0	53.5	49.7	55.0	48.2	51.7	50.9	44.3	44.5	44.1	47.3	39.7	43.7	40.7	42.2	39.7	35.2	39.1	36.9	-2.1	
Female	37.4	40.2	39.9	37.0	36.9	33.9	32.1	34.4	31.7	32.1	30.4	31.1	29.3	27.7	28.7	23.0	22.4	25.6	24.6	-1.0	
College Plans:																					
None or under 4 years	50.1	46.2	44.6	49.6	47.5	42.4	54.1	45.7	39.4	44.0	45.1	46.2	39.0	43.7	38.5	40.6	35.8	33.9	41.5	+7.5 s	
Complete 4 years	42.8	47.0	44.4	44.4	41.7	42.4	38.4	37.9	37.2	36.6	36.6	33.4	35.7	31.7	34.1	30.2	27.5	31.9	28.4	-3.5	
Region:																					
Northeast	47.0	56.9	47.5	52.6	54.3	48.9	47.2	43.4	41.9	42.6	41.3	42.9	44.1	39.7	42.6	41.2	30.5	40.7	35.7	-5.0	
Midwest	49.7	48.1	43.3	44.6	45.4	47.6	48.1	42.9	43.1	41.4	40.5	35.8	39.2	32.7	37.8	31.8	31.2	31.1	33.6	+2.5	
South	43.8	44.4	43.3	43.2	36.6	35.1	33.6	35.1	32.0	34.2	33.8	34.2	34.2	33.4	31.0	29.0	25.5	26.4	28.2	+1.8	
West	37.8	38.8	44.5	45.5	40.2	43.5	39.9	39.8	36.9	36.1	38.8	31.3	31.7	31.8	30.5	28.9	31.0	35.1	27.9	-7.2 ss	
Population Density:																					
Large MSA	45.9	49.1	45.5	42.1	39.9	45.2	38.0	40.5	36.3	34.2	37.9	35.1	40.7	36.9	39.5	31.6	30.9	36.2	30.7	-5.5	
Other MSA	43.7	46.9	45.0	47.6	42.8	40.7	42.6	38.8	38.9	38.9	38.4	37.2	32.8	31.5	31.7	33.1	27.9	32.4	32.5	+0.2	
Non-MSA	46.0	45.3	41.9	45.6	45.4	43.2	43.3	40.5	37.5	41.4	37.1	33.0	38.2	35.0	36.6	28.3	29.0	26.0	26.9	+0.8	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	43.1	31.2	30.4	37.0	35.4	37.2	39.1	41.6	30.9	34.1	32.9	27.5	32.8	28.5	32.2	24.1	28.7	32.1	24.5	-7.6	
2.5–3.0	44.0	42.4	41.5	42.8	43.0	37.4	48.0	36.6	36.2	38.0	35.8	38.1	35.2	34.7	30.4	34.8	28.9	30.9	33.7	+2.8	
3.5–4.0	42.8	48.2	46.3	48.9	42.5	45.1	35.8	40.9	39.9	43.0	38.4	35.7	36.8	30.9	36.9	31.5	26.2	31.4	33.2	+1.9	
4.5–5.0	47.1	47.1	47.7	48.9	40.0	43.9	43.6	39.9	38.4	36.1	42.4	35.3	39.4	33.8	38.9	34.3	32.3	33.6	32.7	-0.9	
5.5–6.0 (High)	49.6	58.0	49.9	44.5	51.8	52.0	42.3	45.2	41.4	38.7	37.6	38.4	38.8	43.1	33.7	28.2	29.5	34.7	26.1	-8.5	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	47.8	50.1	50.7	49.9	47.7	45.8	46.7	45.4	43.1	42.1	42.3	41.8	41.0	39.7	37.8	36.4	34.0	33.8	34.5	+0.8	
African American	25.6	28.4	25.5	22.8	22.3	21.7	20.6	16.9	14.0	15.7	18.0	14.8	13.6	14.6	19.3	18.9	12.0	12.2	15.2	+3.1	
Hispanic	41.7	41.3	39.8	39.0	43.6	45.3	42.6	40.8	37.2	36.7	39.2	35.4	32.7	31.2	31.6	32.1	32.7	35.5	32.9	-2.7	

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

*Notes.* Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of five forms in 1976–1988; *N* is one fifth of *N* indicated in Table S3. Data based on one of six forms beginning in 1989; *N* is one sixth of *N* indicated in Table S3.

**Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.**

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 96**  
**BEER: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 8**

Percentage reporting 5+ drinks in a row on one or more occasions

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	2012– 2013 <u>change</u>	
<i>Approximate weighted N =</i>	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600		
Total	7.2	7.3	8.2	8.5	8.5	9.2	7.6	8.0	8.3	7.5	8.1	6.1	5.5	6.8	5.8	5.5	5.4	5.1	4.9	4.8	4.3	3.5	3.0	-0.6	
Gender:																									
Male	9.2	8.9	9.4	10.6	9.8	10.1	9.2	10.0	10.5	8.8	9.4	6.5	5.8	6.4	5.5	5.9	5.5	6.0	5.3	5.2	4.4	3.5	2.8	-0.8	
Female	5.2	5.9	7.1	6.7	7.4	8.2	6.0	6.3	6.2	6.3	7.0	5.5	5.1	6.9	6.2	4.9	4.8	4.3	4.1	4.7	4.0	3.6	3.1	-0.5	
College Plans:																									
None or under 4 years	15.4	18.2	18.4	20.7	17.5	19.7	22.0	21.6	24.8	21.9	25.4	19.0	17.5	19.0	16.7	13.9	15.3	19.2	15.4	16.8	8.4	12.2	7.8	-4.4	
Complete 4 years	5.9	5.8	6.9	7.1	7.5	7.6	6.0	6.6	6.2	6.1	6.3	5.0	4.2	5.5	4.9	4.7	4.4	4.1	4.1	3.9	4.0	2.9	2.7	-0.3	
Region:																									
Northeast	4.8	5.5	5.8	8.1	9.3	10.7	7.6	6.6	9.1	5.7	9.4	3.5	5.6	6.5	3.7	4.1	4.8	5.3	4.6	4.8	2.1	2.1	2.0	-0.1	
Midwest	6.9	7.0	7.6	8.8	8.0	9.2	8.4	10.0	9.3	8.9	7.8	5.6	7.0	8.3	4.7	5.9	3.6	4.6	4.4	4.3	4.9	1.5	2.8	+1.3	
South	8.9	9.0	9.4	8.1	8.8	8.4	6.9	8.0	8.9	7.1	7.9	6.7	5.1	6.4	7.4	6.3	6.6	6.2	5.8	5.8	4.3	4.1	3.7	-0.4	
West	7.0	6.7	9.2	9.1	8.1	9.2	7.9	7.1	5.3	8.0	7.9	8.4	4.2	6.0	6.0	4.9	5.4	3.9	4.2	3.9	5.4	5.8	2.6	-3.1	
Population Density:																									
Large MSA	6.6	7.4	6.1	6.9	5.3	8.5	5.6	6.7	6.2	6.0	5.4	5.0	4.2	5.6	4.9	4.1	4.5	5.6	4.4	4.4	3.0	3.6	2.3	-1.3	
Other MSA	7.0	7.6	8.2	9.1	8.8	9.3	7.4	6.6	8.6	6.4	8.4	6.0	5.3	6.4	6.0	5.4	5.2	4.7	4.4	5.0	4.6	3.7	3.4	-0.3	
Non-MSA	8.4	6.8	10.7	8.4	9.8	9.8	9.6	12.3	10.2	11.5	10.5	7.7	7.3	8.9	6.6	7.8	6.9	5.2	6.8	5.2	5.5	2.9	2.8	0.0	
Parental Education: <sup>a</sup>																									
1.0–2.0 (Low)	12.6	12.5	11.0	11.6	12.5	12.8	9.8	12.6	17.9	14.8	11.5	11.2	9.4	11.9	14.0	8.9	11.6	11.3	9.5	9.2	7.6	7.7	6.1	-1.6	
2.5–3.0	7.7	8.9	9.9	9.3	10.2	10.7	10.1	8.0	9.8	10.9	10.0	8.1	7.2	8.8	8.1	7.1	8.8	8.8	6.8	7.6	5.5	5.1	3.1	-2.0	
3.5–4.0	7.8	7.0	7.9	9.0	9.8	10.1	8.3	9.0	10.4	6.6	9.1	6.8	6.0	7.9	5.3	5.4	4.8	5.7	5.1	4.8	5.7	2.7	4.1	+1.4	
4.5–5.0	5.0	4.5	7.3	6.8	6.1	7.5	5.3	5.9	3.9	5.0	5.1	3.7	3.5	5.3	4.3	4.3	3.4	2.5	4.3	3.4	3.0	2.4	2.2	-0.2	
5.5–6.0 (High)	6.2	6.0	6.2	8.4	5.9	6.7	5.7	8.7	6.1	4.3	5.3	4.8	4.1	4.7	2.4	4.7	2.1	2.3	2.0	2.5	2.7	1.4	2.1	+0.6	
Race/Ethnicity (2-year average): <sup>b</sup>																									
White	—	7.0	7.6	8.0	8.7	9.2	8.6	7.9	8.3	8.3	7.7	6.7	5.7	6.1	5.9	5.2	4.9	4.8	5.0	4.8	4.3	3.3	2.9	-0.4	
African American	—	5.2	5.1	7.2	6.4	4.9	4.4	3.6	4.7	4.9	4.0	3.2	3.0	3.6	3.1	2.7	2.6	2.4	2.0	1.5	2.9	3.0	1.3	-1.7	
Hispanic	—	12.7	13.2	12.1	11.6	12.7	12.3	10.5	10.2	9.8	12.3	13.2	10.3	9.1	10.0	9.0	9.0	9.0	7.3	7.1	7.0	7.3	5.9	-1.5	

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

*Notes.* Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996; *N* is one half of *N* indicated in Table S1. Data based on one of four forms beginning in 1997; *N* is one third of *N* indicated in Table S1.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother’s education and father’s education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.



**TABLE 97**  
**BEER: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 10**

Percentage reporting 5+ drinks in a row on one or more occasions

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2012–2013 change	
<i>Approximate weighted N =</i>	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900		
Total	16.4	15.1	16.1	17.0	17.1	17.9	17.6	16.0	18.1	17.5	16.3	14.1	13.8	13.6	13.1	14.5	13.7	10.8	11.3	10.9	10.3	10.4	9.1	-1.3	
Gender:																									
Male	21.7	18.9	20.4	23.0	21.1	22.5	21.2	20.7	24.0	22.5	22.2	16.7	18.3	17.1	15.2	16.3	16.5	12.8	13.6	14.0	12.7	12.9	10.8	-2.1	
Female	11.7	11.7	11.8	11.1	13.1	13.7	14.4	11.8	12.5	12.7	11.2	11.7	9.9	10.4	10.8	12.3	10.7	9.2	9.1	8.0	7.7	8.1	7.1	-0.9	
College Plans:																									
None or under 4 years	25.4	22.8	25.4	26.6	28.2	30.7	31.6	26.1	29.9	26.8	31.2	26.2	22.7	20.5	23.0	26.1	26.4	21.2	24.3	23.9	20.0	18.3	15.2	-3.1	
Complete 4 years	14.5	13.5	14.2	15.0	15.3	15.8	15.4	14.2	16.2	15.9	14.1	12.2	12.6	12.7	11.8	12.8	12.3	9.6	10.0	9.4	9.3	9.7	8.4	-1.2	
Region:																									
Northeast	19.0	14.6	17.1	18.4	17.4	19.9	17.5	18.8	21.5	16.4	15.2	12.6	16.4	16.9	15.2	17.7	14.7	12.0	12.1	10.3	12.2	12.7	8.8	-3.9	
Midwest	16.5	16.7	17.3	18.2	18.3	18.8	18.4	16.3	18.3	20.9	16.4	14.9	13.5	10.9	14.6	14.8	14.2	11.2	11.0	10.9	8.0	9.9	6.4	-3.5	
South	15.4	13.9	14.9	16.9	16.9	17.7	16.6	15.4	17.5	15.7	15.9	13.2	12.4	12.8	10.8	12.7	12.5	11.3	11.6	10.7	11.2	11.1	12.0	+0.9	
West	15.9	15.5	15.2	13.5	15.5	15.1	18.3	14.0	15.5	16.9	18.3	16.0	14.0	15.0	12.4	13.7	13.9	9.0	10.4	11.8	10.1	8.0	8.4	+0.4	
Population Density:																									
Large MSA	16.0	14.8	15.2	14.5	12.7	16.4	15.9	12.8	18.0	16.9	13.0	12.0	13.0	11.5	10.6	13.3	12.7	10.2	10.4	10.6	9.5	11.4	7.5	-4.0 s	
Other MSA	15.8	13.9	13.9	17.0	17.2	17.6	17.6	15.9	17.3	16.3	15.7	13.5	13.1	14.4	13.8	15.3	12.5	10.9	11.5	10.5	10.6	9.4	9.3	-0.1	
Non-MSA	17.9	17.7	20.9	18.7	19.6	20.1	19.1	19.6	20.1	20.1	21.2	18.1	17.0	14.7	14.6	14.1	17.8	11.7	12.2	12.3	10.6	11.1	10.8	-0.3	
Parental Education: <sup>a</sup>																									
1.0–2.0 (Low)	21.3	15.6	18.9	19.2	20.3	20.5	18.1	12.8	14.2	16.7	17.9	13.8	19.0	14.1	15.1	16.4	19.2	15.1	17.0	19.0	16.0	17.5	13.5	-4.0	
2.5–3.0	18.5	16.6	15.3	18.5	19.7	18.8	18.0	19.0	20.5	16.5	15.9	15.8	14.8	17.1	16.3	17.8	18.1	13.2	13.7	11.7	12.1	11.2	10.8	-0.4	
3.5–4.0	15.0	15.6	16.5	16.7	17.4	18.5	18.9	15.8	17.6	17.9	17.8	14.4	13.7	13.9	13.6	14.5	13.9	10.9	12.6	11.4	10.5	9.3	9.3	-0.1	
4.5–5.0	15.1	14.0	16.3	16.8	16.0	15.9	16.5	14.9	17.3	19.0	14.3	12.5	13.1	12.0	11.6	12.3	11.0	9.5	8.4	8.9	9.2	10.2	7.7	-2.5	
5.5–6.0 (High)	15.4	13.1	15.3	14.5	13.8	18.3	16.1	16.2	19.3	16.8	17.5	13.1	11.8	13.7	11.3	14.3	10.6	7.6	9.6	7.9	7.6	10.2	7.6	-2.6	
Race/Ethnicity (2-year average): <sup>b</sup>																									
White	—	16.7	16.4	17.4	18.1	19.0	19.3	18.6	19.7	19.9	18.1	16.5	16.1	15.5	15.1	15.8	15.7	13.7	12.2	11.4	10.7	11.0	10.1	-0.9	
African American	—	9.8	10.1	9.3	8.7	6.5	6.6	5.5	4.0	6.2	6.8	6.1	4.7	4.1	4.2	3.8	3.7	3.7	4.0	4.4	4.2	3.1	3.1	0.0	
Hispanic	—	17.2	16.1	16.8	18.6	19.7	19.5	16.9	14.8	17.5	20.3	17.5	16.2	17.5	16.5	16.0	16.6	15.7	14.7	17.2	17.1	14.3	12.6	-1.7	

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996; N is one half of N indicated in Table S2. Data based on one of four forms beginning in 1997; N is one third of N indicated in Table S2.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 98**  
**BEER**  
**Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12**

		Percentage reporting 5+ drinks in a row on one or more occasions																			→ (Years cont.)
		1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
<i>Approximate weighted N =</i>		—	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400
<b>Total</b>		—	33.0	35.1	35.4	36.4	36.6	38.0	37.6	38.1	36.2	32.0	33.1	33.8	31.0	31.3	27.0	28.5	25.4	25.5	24.6
<b>Gender</b>																					
Male		—	45.6	49.0	49.8	50.6	51.1	49.4	48.5	49.8	47.7	42.6	45.4	45.4	41.5	39.5	37.1	37.0	34.0	34.2	35.7
Female		—	21.4	23.5	22.6	24.2	23.9	26.5	27.3	27.4	25.0	22.4	22.4	23.1	22.2	23.8	16.5	20.1	17.6	18.1	15.5
<b>College Plans</b>																					
None or under 4 years		—	37.7	39.2	41.6	39.5	43.5	42.8	42.1	43.1	41.2	35.5	36.1	37.8	36.9	37.7	29.0	35.1	32.8	30.2	29.6
Complete 4 years		—	27.8	31.0	29.4	33.3	30.9	34.2	34.2	34.3	33.6	29.8	30.8	31.7	28.4	28.5	26.0	26.0	23.3	23.8	23.4
<b>Region</b>																					
Northeast		—	39.0	35.3	36.5	41.9	41.4	42.1	40.0	37.9	39.8	35.5	32.6	32.1	32.7	32.1	27.4	27.8	25.7	28.5	23.4
Midwest		—	35.8	37.6	39.9	39.0	42.3	43.6	45.3	45.1	43.7	34.2	40.8	41.3	38.5	38.2	31.4	34.7	32.5	27.6	28.3
South		—	26.6	33.9	31.8	34.0	30.5	33.9	31.7	35.1	31.5	26.6	29.4	30.7	25.7	27.5	23.8	24.2	22.9	25.2	24.8
West		—	31.0	31.6	32.0	28.3	31.1	28.5	28.1	31.3	29.4	33.8	27.5	29.8	28.5	27.4	25.1	27.3	18.4	20.8	19.7
<b>Population Density</b>																					
Large MSA		—	32.8	34.4	34.4	35.0	40.9	38.9	36.2	37.4	34.5	31.2	33.9	32.3	29.6	27.3	32.0	24.7	26.0	23.8	23.6
Other MSA		—	33.9	35.4	35.7	36.3	33.9	37.7	36.6	36.6	33.2	30.2	31.5	34.5	30.9	32.3	26.9	28.8	24.2	24.8	22.6
Non-MSA		—	32.1	35.2	35.7	37.6	37.0	37.6	39.8	40.6	41.4	35.1	35.0	33.9	32.6	32.9	22.6	31.0	27.2	28.1	28.7
<b>Parental Education<sup>a</sup></b>																					
1.0–2.0 (Low)		—	30.7	31.9	33.6	32.8	31.1	32.3	35.0	38.4	26.8	27.4	28.5	32.9	31.3	26.9	28.1	34.9	23.4	27.3	23.7
2.5–3.0		—	37.5	36.4	37.8	38.0	38.8	42.9	37.5	37.4	39.2	33.6	34.2	34.3	31.0	32.2	26.7	29.2	26.6	26.1	25.3
3.5–4.0		—	32.9	34.8	34.4	36.5	37.6	39.2	41.6	39.1	37.1	32.1	32.9	34.9	29.4	32.8	24.9	29.4	25.2	26.6	24.2
4.5–5.0		—	33.9	34.1	36.2	38.2	36.0	31.7	35.3	39.1	39.9	35.9	34.4	34.7	32.8	31.2	27.7	26.2	23.9	24.1	24.1
5.5–6.0 (High)		—	27.2	38.0	28.7	35.5	37.6	38.5	38.9	36.5	30.2	27.4	33.8	29.7	31.4	26.5	32.3	25.7	26.9	26.1	26.0
<b>Race/Ethnicity (2-year average)<sup>b</sup></b>																					
White		—	—	35.5	36.8	37.6	38.5	40.1	40.9	40.8	40.0	37.1	35.3	35.8	35.2	34.4	32.5	30.6	29.6	27.6	27.3
African American		—	—	18.8	19.5	19.4	17.7	16.4	16.9	18.1	18.9	15.5	13.2	13.6	16.1	18.5	13.5	10.2	13.1	15.5	15.4
Hispanic		—	—	34.4	33.5	31.5	32.7	30.8	27.6	27.9	27.4	24.6	29.4	32.8	27.5	22.0	20.6	23.8	27.2	24.8	24.9

(Table continued on next page.)

TABLE 98 (cont.)

**BEER: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12**

	Percentage reporting 5+ drinks in a row on one or more occasions																		2012– 2013 change		
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	27.6	29.2	26.7	28.5	25.6	27.5	26.7	26.1	21.4	23.7	22.4	21.4	22.0	20.9	20.8	19.5	16.8	18.8	17.3	-1.5	
Gender:																					
Male	36.5	38.7	32.9	39.3	34.7	38.2	35.9	33.7	31.1	32.1	30.9	26.9	27.7	27.7	28.0	26.3	24.2	25.1	23.3	-1.8	
Female	19.5	19.2	21.2	19.5	17.0	17.6	18.0	18.2	12.9	15.6	15.3	16.2	16.1	15.1	14.3	12.4	10.2	12.3	11.8	-0.5	
College Plans:																					
None or under 4 years	32.7	29.4	29.0	39.7	29.5	31.0	40.5	37.0	24.9	32.0	28.9	31.5	24.2	30.9	26.7	25.9	21.1	21.3	25.6	+4.3	
Complete 4 years	25.4	28.8	26.2	25.1	24.7	26.0	23.3	22.9	20.3	21.5	21.1	19.0	21.2	18.7	19.5	18.3	16.0	18.0	15.3	-2.7	
Region:																					
Northeast	30.5	35.4	32.0	34.2	33.0	32.7	26.5	28.6	27.1	26.1	25.8	25.9	29.5	23.7	26.0	25.2	17.7	24.9	20.9	-4.0	
Midwest	30.2	29.9	25.7	31.4	28.9	32.4	33.9	28.9	24.8	26.2	26.2	22.1	24.3	21.0	23.6	23.3	21.5	18.6	19.8	+1.3	
South	27.2	27.5	24.1	25.5	21.3	20.0	19.7	22.4	16.8	21.8	20.2	20.6	18.8	21.1	16.7	16.6	14.2	16.1	15.6	-0.5	
West	21.8	24.6	27.6	25.6	22.8	29.4	27.9	26.3	19.2	20.9	18.0	18.1	18.6	18.7	18.8	16.0	15.1	18.5	14.2	-4.3	
Population Density:																					
Large MSA	26.9	32.4	26.2	24.4	21.3	29.8	23.4	25.7	18.9	20.9	21.4	21.2	25.1	22.7	21.0	17.8	17.7	22.4	17.3	-5.0	
Other MSA	26.7	29.3	27.9	30.3	26.8	26.1	26.7	25.2	22.9	22.9	23.7	21.2	19.0	18.8	19.4	21.4	15.6	18.3	16.9	-1.4	
Non-MSA	30.0	26.6	25.0	29.5	28.1	27.4	30.2	28.1	21.7	28.2	21.0	22.1	23.3	23.4	23.6	17.3	18.3	14.6	18.0	+3.4	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	28.9	23.8	18.7	23.5	22.1	16.8	28.2	32.0	20.1	18.5	17.0	19.3	21.5	14.0	21.8	12.3	15.8	22.5	15.4	-7.2	
2.5–3.0	27.6	25.0	26.0	26.5	27.7	24.3	31.9	24.5	22.9	27.0	21.3	23.2	23.1	20.4	17.6	22.3	16.9	19.7	18.4	-1.3	
3.5–4.0	25.6	29.3	28.3	31.9	26.5	29.1	21.4	27.4	20.5	26.3	23.0	23.9	21.1	19.8	21.2	19.9	16.1	18.9	19.2	+0.2	
4.5–5.0	27.6	28.1	29.1	29.3	24.2	28.7	28.7	24.4	23.3	20.9	25.5	19.6	24.2	21.1	23.6	20.9	18.7	18.1	18.5	+0.4	
5.5–6.0 (High)	32.2	41.0	28.3	27.6	24.3	35.1	28.0	27.3	19.0	20.2	21.8	19.3	21.0	27.6	19.6	15.8	15.6	15.9	12.1	-3.8	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	29.0	31.3	31.4	31.3	30.0	28.8	31.0	30.2	26.4	25.3	26.1	25.8	25.8	25.3	23.6	23.0	21.4	19.7	19.6	-0.1	
African American	12.6	14.6	13.3	11.7	10.6	9.9	9.1	7.6	6.1	9.3	11.2	7.1	5.0	5.7	8.2	6.1	4.8	5.3	5.9	+0.6	
Hispanic	23.8	26.1	26.0	24.4	27.5	29.0	27.1	24.7	21.6	20.0	19.7	19.8	19.8	17.5	19.4	20.6	18.6	22.9	22.1	-0.8	

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of five forms in 1976–1988; N is one fifth of N indicated in Table S3. Data based on one of six forms beginning in 1989; N is one sixth of N indicated in Table S3.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 99**  
**LIQUOR: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 30 days																			→ (Years cont.)
<i>Approximate weighted N =</i>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>
Total	—	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400
Gender:																				
Male	—	44.4	44.7	48.9	48.5	48.8	45.3	45.2	48.8	43.3	40.3	43.7	42.8	38.5	39.6	36.9	34.9	32.0	36.4	32.8
Female	—	43.8	45.3	47.6	46.6	47.4	44.3	45.1	43.7	40.8	39.5	38.6	35.4	33.6	32.1	24.6	28.0	25.9	27.3	23.2
College Plans:																				
None or under 4 years	—	44.6	47.8	49.3	46.1	51.4	46.9	47.5	47.4	44.6	41.0	38.9	39.4	36.8	38.1	30.6	37.0	31.9	37.3	28.3
Complete 4 years	—	43.8	42.5	47.7	48.5	45.1	43.0	43.6	45.3	40.6	39.6	41.8	39.0	35.0	35.0	30.4	29.0	27.4	29.9	28.1
Region:																				
Northeast	—	52.5	47.4	47.8	56.7	53.2	49.5	50.8	50.8	46.4	42.1	37.2	43.3	36.1	40.3	34.5	36.6	25.8	32.4	25.9
Midwest	—	47.0	49.7	53.7	45.4	46.5	47.2	49.1	50.5	45.6	40.1	49.8	42.2	42.2	40.5	31.0	33.5	33.5	32.1	29.0
South	—	37.6	39.8	46.0	43.6	48.5	38.8	38.7	43.3	38.5	37.1	35.9	34.6	30.4	33.0	29.6	28.1	27.1	34.7	28.1
West	—	38.3	41.3	42.0	45.0	42.9	43.2	40.0	38.4	39.6	42.1	39.6	37.4	35.0	30.0	28.5	29.0	26.3	24.0	28.2
Population Density:																				
Large MSA	—	47.3	45.4	49.3	52.0	51.7	44.4	48.5	48.1	40.8	37.7	41.2	39.9	36.0	36.4	33.8	30.4	29.8	32.2	30.3
Other MSA	—	44.7	46.0	48.3	47.1	48.4	45.9	45.6	45.5	40.9	39.3	39.9	40.5	36.3	33.5	31.1	33.1	27.4	30.4	26.5
Non-MSA	—	41.4	43.3	47.2	44.1	44.8	43.2	42.1	46.1	45.1	42.6	42.4	35.5	34.0	40.3	27.7	29.1	30.0	32.7	28.1
Parental Education: <sup>a</sup>																				
1.0–2.0 (Low)	—	40.8	38.2	37.3	38.2	44.2	43.1	40.3	41.6	33.1	36.2	36.1	32.2	33.5	32.1	25.7	29.7	25.4	29.1	23.6
2.5–3.0	—	46.7	45.9	49.8	46.6	47.8	43.5	44.8	44.7	46.3	37.9	38.1	36.0	34.6	32.1	29.5	32.6	29.9	29.4	28.2
3.5–4.0	—	44.7	47.3	51.9	51.7	47.5	46.6	48.0	46.5	42.0	39.2	42.3	38.2	33.1	38.3	31.6	33.6	29.0	34.1	25.8
4.5–5.0	—	47.9	45.6	49.1	51.7	48.7	40.7	43.6	50.0	44.9	48.0	43.9	43.4	38.7	36.9	34.2	27.4	25.9	32.2	29.3
5.5–6.0 (High)	—	46.6	53.4	54.2	49.3	53.4	53.8	54.2	55.2	40.4	40.9	47.4	45.7	39.4	37.7	33.8	33.5	33.1	29.9	32.0
Race/Ethnicity (2-year average): <sup>b</sup>																				
White	—	—	47.5	49.5	50.3	50.1	48.9	48.2	49.0	47.3	44.1	43.5	43.4	41.1	39.8	37.7	35.0	32.9	32.5	32.6
African American	—	—	21.2	19.9	23.3	27.5	25.1	21.5	25.3	23.7	18.5	17.4	15.0	16.0	16.8	14.4	14.1	15.1	17.5	17.1
Hispanic	—	—	47.7	48.8	43.3	47.2	45.6	41.2	35.6	35.4	42.1	40.4	36.9	31.6	24.6	21.0	23.2	29.2	28.9	26.3

(Table continued on next page.)

**TABLE 99 (cont.)**  
**LIQUOR: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 30 days																			2012–2013 change	
	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>		
<i>Approximate weighted N =</i>	<i>15,400</i>	<i>14,300</i>	<i>15,400</i>	<i>15,200</i>	<i>13,600</i>	<i>12,800</i>	<i>12,800</i>	<i>12,900</i>	<i>14,600</i>	<i>14,600</i>	<i>14,700</i>	<i>14,200</i>	<i>14,500</i>	<i>14,000</i>	<i>13,700</i>	<i>14,400</i>	<i>14,100</i>	<i>13,700</i>	<i>12,600</i>		
Total	34.3	34.7	34.6	37.3	34.3	36.0	35.1	36.0	34.3	35.6	36.4	34.2	34.1	32.4	33.2	29.8	29.8	31.2	31.0	-0.2	
Gender:																					
Male	38.2	36.4	36.3	41.2	38.0	41.7	35.6	37.9	36.1	39.3	38.4	33.7	36.2	33.8	35.2	31.9	31.1	32.3	31.8	-0.6	
Female	30.9	32.6	33.4	33.3	30.0	30.7	33.7	33.8	32.9	32.2	34.9	33.9	31.4	30.7	30.9	27.3	28.6	30.4	29.8	-0.7	
College Plans:																					
None or under 4 years	36.8	35.8	34.2	38.3	35.0	38.1	40.4	42.5	36.9	40.3	42.6	39.7	37.5	38.0	40.6	34.9	29.5	30.0	33.6	+3.5	
Complete 4 years	33.4	34.1	34.9	36.6	33.9	35.0	33.6	34.2	33.6	34.3	35.5	33.0	33.5	31.4	31.7	28.8	29.7	31.3	30.4	-0.9	
Region:																					
Northeast	37.7	40.9	36.6	46.3	39.8	40.9	40.8	41.4	35.8	41.1	41.9	40.0	41.2	37.1	37.7	38.5	38.0	41.8	33.4	-8.4	
Midwest	35.4	36.2	35.2	36.6	33.7	40.5	37.4	39.6	37.4	35.4	39.3	35.2	38.1	33.4	34.7	31.1	30.4	27.9	32.5	+4.7	
South	34.9	33.6	32.9	33.9	32.1	28.3	31.7	32.9	30.7	33.3	33.7	32.5	30.6	32.2	32.1	26.4	26.8	28.2	27.7	-0.5	
West	28.7	27.8	35.1	37.2	34.5	38.5	33.3	31.8	35.4	33.8	32.3	30.9	29.8	28.7	29.3	27.6	28.2	31.7	32.1	+0.4	
Population Density:																					
Large MSA	33.3	30.6	36.0	37.2	34.5	41.1	36.0	37.5	32.4	30.1	36.2	34.4	37.4	37.1	38.7	30.1	34.3	36.5	35.7	-0.8	
Other MSA	34.9	38.0	34.6	38.9	34.9	33.8	35.4	37.0	35.6	37.7	37.8	36.3	31.7	29.2	30.9	31.9	29.2	32.4	30.8	-1.7	
Non-MSA	34.3	32.4	33.4	33.9	33.3	34.0	33.9	32.3	34.3	37.4	34.2	30.2	34.1	34.1	31.7	24.2	24.7	20.7	24.9	+4.2	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	26.8	24.7	27.7	33.5	35.3	30.8	28.2	29.4	27.6	29.5	30.9	30.2	27.1	33.3	32.5	22.5	28.7	28.8	24.7	-4.1	
2.5–3.0	34.8	37.5	31.8	33.5	33.7	28.7	36.3	33.5	35.2	34.0	33.0	36.7	33.7	30.8	28.1	33.3	28.9	31.7	29.9	-1.8	
3.5–4.0	32.4	34.7	36.4	40.6	32.7	40.0	35.4	37.3	35.7	38.2	33.8	34.7	33.2	33.1	33.9	29.3	29.8	32.4	34.6	+2.2	
4.5–5.0	35.7	30.1	35.8	38.2	33.4	35.2	38.3	38.2	36.5	36.4	43.3	33.8	37.3	30.3	36.8	30.5	29.5	31.9	34.2	+2.3	
5.5–6.0 (High)	41.1	42.1	40.4	38.3	40.8	47.8	34.5	38.8	33.0	36.6	38.4	35.9	39.4	37.5	35.9	28.7	35.3	30.3	26.6	-3.7	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	34.1	37.2	38.5	39.5	37.6	37.2	38.8	38.9	37.8	37.8	39.8	39.5	37.5	35.2	33.8	33.0	31.9	32.5	32.5	0.0	
African American	17.9	24.9	20.4	17.6	21.5	22.2	22.1	22.0	23.0	23.7	25.3	23.0	21.6	23.7	29.4	27.4	22.8	26.7	27.1	+0.4	
Hispanic	27.4	29.4	28.1	31.7	36.6	36.3	36.0	36.3	33.3	29.6	30.2	28.4	27.5	29.3	30.5	30.5	30.9	30.9	30.6	-0.3	

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

Data based on one of five forms in 1976–1988;  $N$  is one fifth of  $N$  indicated in Table S3. Data based on one of six forms beginning in 1989;  $N$  is one sixth of  $N$  indicated in Table S3.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 100

**LIQUOR: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12**

		Percentage reporting 5+ drinks in a row on one or more occasions																			→ (Years cont.)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Approximate weighted N =		1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Total	—	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Gender:																						Male	—	23.3	21.1	24.4	26.3	26.1	23.0	25.8	26.4	24.6	20.9	24.7	25.0	20.3	24.5	20.7	20.5	20.0	24.6	22.4	Female	—	16.1	18.5	19.6	19.8	20.2	19.7	21.9	17.8	18.2	18.2	18.6	16.2	16.6	15.7	12.8	14.4	12.6	13.2	12.6	College Plans:																						None or under 4 years	—	23.8	23.4	26.7	24.2	26.5	26.4	26.9	25.7	24.7	22.0	24.0	24.5	20.7	23.7	17.3	21.7	21.4	24.6	19.1	Complete 4 years	—	15.8	16.8	17.9	21.5	19.7	18.0	21.8	19.2	19.2	18.4	19.9	18.6	17.2	18.6	16.4	15.8	14.1	16.5	16.6	Region:																						Northeast	—	24.9	20.2	21.8	28.8	27.2	25.0	26.1	24.7	24.9	23.8	20.1	22.3	17.4	23.7	18.0	21.3	14.8	15.1	14.2	Midwest	—	22.1	23.3	24.0	23.0	23.7	22.9	27.5	24.0	24.1	19.3	25.9	21.9	23.1	21.4	17.7	19.0	19.0	18.9	17.7	South	—	16.0	16.4	22.5	20.6	22.1	18.0	19.6	20.7	20.2	17.0	19.1	18.7	15.2	18.6	15.4	15.3	15.5	21.7	17.6	West	—	14.8	19.2	16.2	18.5	18.2	19.2	20.1	17.0	15.3	19.8	19.6	19.6	17.2	17.5	16.5	15.2	13.7	13.6	18.0	Population Density:																						Large MSA	—	20.3	18.3	20.5	22.6	22.8	22.6	26.1	24.3	21.1	18.7	21.7	20.3	16.8	18.4	17.9	16.4	15.6	16.8	16.1	Other MSA	—	19.9	21.8	21.4	23.4	23.9	20.7	22.2	21.8	20.1	19.6	19.7	20.8	19.8	19.1	16.4	17.5	15.2	17.3	16.3	Non-MSA	—	19.4	18.8	23.8	22.3	22.1	21.2	24.1	20.5	23.0	20.2	23.9	20.2	16.6	23.7	16.8	18.1	17.9	20.7	19.5	Parental Education: <sup>a</sup>																						1.0–2.0 (Low)	—	22.0	18.1	20.9	19.1	22.0	24.3	21.0	21.5	21.0	19.6	19.0	20.6	19.9	17.6	18.0	19.9	15.9	20.7	14.4	2.5–3.0	—	22.8	20.4	23.7	23.6	23.9	21.3	24.7	23.6	25.5	20.4	24.2	21.2	21.6	18.1	16.4	18.1	17.9	18.3	18.5	3.5–4.0	—	17.4	21.5	22.0	22.9	20.5	24.9	25.2	19.9	19.7	18.1	20.1	18.1	15.7	23.2	15.0	18.6	15.9	19.7	16.2	4.5–5.0	—	18.0	16.7	18.6	24.7	24.8	14.7	21.3	22.6	20.0	20.2	20.4	21.8	16.7	20.9	18.5	16.4	13.5	17.4	17.7	5.5–6.0 (High)	—	14.0	24.9	22.5	23.2	23.6	19.5	28.1	20.4	17.5	20.6	22.0	22.2	16.4	16.3	19.4	13.3	16.5	16.0	18.8	Race/Ethnicity (2-year average): <sup>b</sup>																						White	—	—	20.5	22.1	23.6	24.1	23.3	24.2	24.5	23.0	22.0	22.0	22.6	21.3	21.0	20.7	19.0	18.0	18.7	19.4	African American	—	—	10.5	7.7	8.4	11.1	10.6	8.6	10.9	11.2	8.0	7.5	6.2	7.2	10.4	9.6	6.8	7.1	8.9	9.5	Hispanic	—	—	25.5	26.8	25.9	22.9	25.3	26.7	24.5	21.4	20.9	20.8	21.9	19.0	14.6	11.9	13.4	19.4	18.1	16.8
Male	—	23.3	21.1	24.4	26.3	26.1	23.0	25.8	26.4	24.6	20.9	24.7	25.0	20.3	24.5	20.7	20.5	20.0	24.6	22.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Female	—	16.1	18.5	19.6	19.8	20.2	19.7	21.9	17.8	18.2	18.2	18.6	16.2	16.6	15.7	12.8	14.4	12.6	13.2	12.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
College Plans:																						None or under 4 years	—	23.8	23.4	26.7	24.2	26.5	26.4	26.9	25.7	24.7	22.0	24.0	24.5	20.7	23.7	17.3	21.7	21.4	24.6	19.1	Complete 4 years	—	15.8	16.8	17.9	21.5	19.7	18.0	21.8	19.2	19.2	18.4	19.9	18.6	17.2	18.6	16.4	15.8	14.1	16.5	16.6	Region:																						Northeast	—	24.9	20.2	21.8	28.8	27.2	25.0	26.1	24.7	24.9	23.8	20.1	22.3	17.4	23.7	18.0	21.3	14.8	15.1	14.2	Midwest	—	22.1	23.3	24.0	23.0	23.7	22.9	27.5	24.0	24.1	19.3	25.9	21.9	23.1	21.4	17.7	19.0	19.0	18.9	17.7	South	—	16.0	16.4	22.5	20.6	22.1	18.0	19.6	20.7	20.2	17.0	19.1	18.7	15.2	18.6	15.4	15.3	15.5	21.7	17.6	West	—	14.8	19.2	16.2	18.5	18.2	19.2	20.1	17.0	15.3	19.8	19.6	19.6	17.2	17.5	16.5	15.2	13.7	13.6	18.0	Population Density:																						Large MSA	—	20.3	18.3	20.5	22.6	22.8	22.6	26.1	24.3	21.1	18.7	21.7	20.3	16.8	18.4	17.9	16.4	15.6	16.8	16.1	Other MSA	—	19.9	21.8	21.4	23.4	23.9	20.7	22.2	21.8	20.1	19.6	19.7	20.8	19.8	19.1	16.4	17.5	15.2	17.3	16.3	Non-MSA	—	19.4	18.8	23.8	22.3	22.1	21.2	24.1	20.5	23.0	20.2	23.9	20.2	16.6	23.7	16.8	18.1	17.9	20.7	19.5	Parental Education: <sup>a</sup>																						1.0–2.0 (Low)	—	22.0	18.1	20.9	19.1	22.0	24.3	21.0	21.5	21.0	19.6	19.0	20.6	19.9	17.6	18.0	19.9	15.9	20.7	14.4	2.5–3.0	—	22.8	20.4	23.7	23.6	23.9	21.3	24.7	23.6	25.5	20.4	24.2	21.2	21.6	18.1	16.4	18.1	17.9	18.3	18.5	3.5–4.0	—	17.4	21.5	22.0	22.9	20.5	24.9	25.2	19.9	19.7	18.1	20.1	18.1	15.7	23.2	15.0	18.6	15.9	19.7	16.2	4.5–5.0	—	18.0	16.7	18.6	24.7	24.8	14.7	21.3	22.6	20.0	20.2	20.4	21.8	16.7	20.9	18.5	16.4	13.5	17.4	17.7	5.5–6.0 (High)	—	14.0	24.9	22.5	23.2	23.6	19.5	28.1	20.4	17.5	20.6	22.0	22.2	16.4	16.3	19.4	13.3	16.5	16.0	18.8	Race/Ethnicity (2-year average): <sup>b</sup>																						White	—	—	20.5	22.1	23.6	24.1	23.3	24.2	24.5	23.0	22.0	22.0	22.6	21.3	21.0	20.7	19.0	18.0	18.7	19.4	African American	—	—	10.5	7.7	8.4	11.1	10.6	8.6	10.9	11.2	8.0	7.5	6.2	7.2	10.4	9.6	6.8	7.1	8.9	9.5	Hispanic	—	—	25.5	26.8	25.9	22.9	25.3	26.7	24.5	21.4	20.9	20.8	21.9	19.0	14.6	11.9	13.4	19.4	18.1	16.8																																																																
None or under 4 years	—	23.8	23.4	26.7	24.2	26.5	26.4	26.9	25.7	24.7	22.0	24.0	24.5	20.7	23.7	17.3	21.7	21.4	24.6	19.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Complete 4 years	—	15.8	16.8	17.9	21.5	19.7	18.0	21.8	19.2	19.2	18.4	19.9	18.6	17.2	18.6	16.4	15.8	14.1	16.5	16.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Region:																						Northeast	—	24.9	20.2	21.8	28.8	27.2	25.0	26.1	24.7	24.9	23.8	20.1	22.3	17.4	23.7	18.0	21.3	14.8	15.1	14.2	Midwest	—	22.1	23.3	24.0	23.0	23.7	22.9	27.5	24.0	24.1	19.3	25.9	21.9	23.1	21.4	17.7	19.0	19.0	18.9	17.7	South	—	16.0	16.4	22.5	20.6	22.1	18.0	19.6	20.7	20.2	17.0	19.1	18.7	15.2	18.6	15.4	15.3	15.5	21.7	17.6	West	—	14.8	19.2	16.2	18.5	18.2	19.2	20.1	17.0	15.3	19.8	19.6	19.6	17.2	17.5	16.5	15.2	13.7	13.6	18.0	Population Density:																						Large MSA	—	20.3	18.3	20.5	22.6	22.8	22.6	26.1	24.3	21.1	18.7	21.7	20.3	16.8	18.4	17.9	16.4	15.6	16.8	16.1	Other MSA	—	19.9	21.8	21.4	23.4	23.9	20.7	22.2	21.8	20.1	19.6	19.7	20.8	19.8	19.1	16.4	17.5	15.2	17.3	16.3	Non-MSA	—	19.4	18.8	23.8	22.3	22.1	21.2	24.1	20.5	23.0	20.2	23.9	20.2	16.6	23.7	16.8	18.1	17.9	20.7	19.5	Parental Education: <sup>a</sup>																						1.0–2.0 (Low)	—	22.0	18.1	20.9	19.1	22.0	24.3	21.0	21.5	21.0	19.6	19.0	20.6	19.9	17.6	18.0	19.9	15.9	20.7	14.4	2.5–3.0	—	22.8	20.4	23.7	23.6	23.9	21.3	24.7	23.6	25.5	20.4	24.2	21.2	21.6	18.1	16.4	18.1	17.9	18.3	18.5	3.5–4.0	—	17.4	21.5	22.0	22.9	20.5	24.9	25.2	19.9	19.7	18.1	20.1	18.1	15.7	23.2	15.0	18.6	15.9	19.7	16.2	4.5–5.0	—	18.0	16.7	18.6	24.7	24.8	14.7	21.3	22.6	20.0	20.2	20.4	21.8	16.7	20.9	18.5	16.4	13.5	17.4	17.7	5.5–6.0 (High)	—	14.0	24.9	22.5	23.2	23.6	19.5	28.1	20.4	17.5	20.6	22.0	22.2	16.4	16.3	19.4	13.3	16.5	16.0	18.8	Race/Ethnicity (2-year average): <sup>b</sup>																						White	—	—	20.5	22.1	23.6	24.1	23.3	24.2	24.5	23.0	22.0	22.0	22.6	21.3	21.0	20.7	19.0	18.0	18.7	19.4	African American	—	—	10.5	7.7	8.4	11.1	10.6	8.6	10.9	11.2	8.0	7.5	6.2	7.2	10.4	9.6	6.8	7.1	8.9	9.5	Hispanic	—	—	25.5	26.8	25.9	22.9	25.3	26.7	24.5	21.4	20.9	20.8	21.9	19.0	14.6	11.9	13.4	19.4	18.1	16.8																																																																																																																																
Northeast	—	24.9	20.2	21.8	28.8	27.2	25.0	26.1	24.7	24.9	23.8	20.1	22.3	17.4	23.7	18.0	21.3	14.8	15.1	14.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Midwest	—	22.1	23.3	24.0	23.0	23.7	22.9	27.5	24.0	24.1	19.3	25.9	21.9	23.1	21.4	17.7	19.0	19.0	18.9	17.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
South	—	16.0	16.4	22.5	20.6	22.1	18.0	19.6	20.7	20.2	17.0	19.1	18.7	15.2	18.6	15.4	15.3	15.5	21.7	17.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
West	—	14.8	19.2	16.2	18.5	18.2	19.2	20.1	17.0	15.3	19.8	19.6	19.6	17.2	17.5	16.5	15.2	13.7	13.6	18.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Population Density:																						Large MSA	—	20.3	18.3	20.5	22.6	22.8	22.6	26.1	24.3	21.1	18.7	21.7	20.3	16.8	18.4	17.9	16.4	15.6	16.8	16.1	Other MSA	—	19.9	21.8	21.4	23.4	23.9	20.7	22.2	21.8	20.1	19.6	19.7	20.8	19.8	19.1	16.4	17.5	15.2	17.3	16.3	Non-MSA	—	19.4	18.8	23.8	22.3	22.1	21.2	24.1	20.5	23.0	20.2	23.9	20.2	16.6	23.7	16.8	18.1	17.9	20.7	19.5	Parental Education: <sup>a</sup>																						1.0–2.0 (Low)	—	22.0	18.1	20.9	19.1	22.0	24.3	21.0	21.5	21.0	19.6	19.0	20.6	19.9	17.6	18.0	19.9	15.9	20.7	14.4	2.5–3.0	—	22.8	20.4	23.7	23.6	23.9	21.3	24.7	23.6	25.5	20.4	24.2	21.2	21.6	18.1	16.4	18.1	17.9	18.3	18.5	3.5–4.0	—	17.4	21.5	22.0	22.9	20.5	24.9	25.2	19.9	19.7	18.1	20.1	18.1	15.7	23.2	15.0	18.6	15.9	19.7	16.2	4.5–5.0	—	18.0	16.7	18.6	24.7	24.8	14.7	21.3	22.6	20.0	20.2	20.4	21.8	16.7	20.9	18.5	16.4	13.5	17.4	17.7	5.5–6.0 (High)	—	14.0	24.9	22.5	23.2	23.6	19.5	28.1	20.4	17.5	20.6	22.0	22.2	16.4	16.3	19.4	13.3	16.5	16.0	18.8	Race/Ethnicity (2-year average): <sup>b</sup>																						White	—	—	20.5	22.1	23.6	24.1	23.3	24.2	24.5	23.0	22.0	22.0	22.6	21.3	21.0	20.7	19.0	18.0	18.7	19.4	African American	—	—	10.5	7.7	8.4	11.1	10.6	8.6	10.9	11.2	8.0	7.5	6.2	7.2	10.4	9.6	6.8	7.1	8.9	9.5	Hispanic	—	—	25.5	26.8	25.9	22.9	25.3	26.7	24.5	21.4	20.9	20.8	21.9	19.0	14.6	11.9	13.4	19.4	18.1	16.8																																																																																																																																																																																																																																										
Large MSA	—	20.3	18.3	20.5	22.6	22.8	22.6	26.1	24.3	21.1	18.7	21.7	20.3	16.8	18.4	17.9	16.4	15.6	16.8	16.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Other MSA	—	19.9	21.8	21.4	23.4	23.9	20.7	22.2	21.8	20.1	19.6	19.7	20.8	19.8	19.1	16.4	17.5	15.2	17.3	16.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Non-MSA	—	19.4	18.8	23.8	22.3	22.1	21.2	24.1	20.5	23.0	20.2	23.9	20.2	16.6	23.7	16.8	18.1	17.9	20.7	19.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Parental Education: <sup>a</sup>																						1.0–2.0 (Low)	—	22.0	18.1	20.9	19.1	22.0	24.3	21.0	21.5	21.0	19.6	19.0	20.6	19.9	17.6	18.0	19.9	15.9	20.7	14.4	2.5–3.0	—	22.8	20.4	23.7	23.6	23.9	21.3	24.7	23.6	25.5	20.4	24.2	21.2	21.6	18.1	16.4	18.1	17.9	18.3	18.5	3.5–4.0	—	17.4	21.5	22.0	22.9	20.5	24.9	25.2	19.9	19.7	18.1	20.1	18.1	15.7	23.2	15.0	18.6	15.9	19.7	16.2	4.5–5.0	—	18.0	16.7	18.6	24.7	24.8	14.7	21.3	22.6	20.0	20.2	20.4	21.8	16.7	20.9	18.5	16.4	13.5	17.4	17.7	5.5–6.0 (High)	—	14.0	24.9	22.5	23.2	23.6	19.5	28.1	20.4	17.5	20.6	22.0	22.2	16.4	16.3	19.4	13.3	16.5	16.0	18.8	Race/Ethnicity (2-year average): <sup>b</sup>																						White	—	—	20.5	22.1	23.6	24.1	23.3	24.2	24.5	23.0	22.0	22.0	22.6	21.3	21.0	20.7	19.0	18.0	18.7	19.4	African American	—	—	10.5	7.7	8.4	11.1	10.6	8.6	10.9	11.2	8.0	7.5	6.2	7.2	10.4	9.6	6.8	7.1	8.9	9.5	Hispanic	—	—	25.5	26.8	25.9	22.9	25.3	26.7	24.5	21.4	20.9	20.8	21.9	19.0	14.6	11.9	13.4	19.4	18.1	16.8																																																																																																																																																																																																																																																																																																																															
1.0–2.0 (Low)	—	22.0	18.1	20.9	19.1	22.0	24.3	21.0	21.5	21.0	19.6	19.0	20.6	19.9	17.6	18.0	19.9	15.9	20.7	14.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
2.5–3.0	—	22.8	20.4	23.7	23.6	23.9	21.3	24.7	23.6	25.5	20.4	24.2	21.2	21.6	18.1	16.4	18.1	17.9	18.3	18.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
3.5–4.0	—	17.4	21.5	22.0	22.9	20.5	24.9	25.2	19.9	19.7	18.1	20.1	18.1	15.7	23.2	15.0	18.6	15.9	19.7	16.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
4.5–5.0	—	18.0	16.7	18.6	24.7	24.8	14.7	21.3	22.6	20.0	20.2	20.4	21.8	16.7	20.9	18.5	16.4	13.5	17.4	17.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
5.5–6.0 (High)	—	14.0	24.9	22.5	23.2	23.6	19.5	28.1	20.4	17.5	20.6	22.0	22.2	16.4	16.3	19.4	13.3	16.5	16.0	18.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Race/Ethnicity (2-year average): <sup>b</sup>																						White	—	—	20.5	22.1	23.6	24.1	23.3	24.2	24.5	23.0	22.0	22.0	22.6	21.3	21.0	20.7	19.0	18.0	18.7	19.4	African American	—	—	10.5	7.7	8.4	11.1	10.6	8.6	10.9	11.2	8.0	7.5	6.2	7.2	10.4	9.6	6.8	7.1	8.9	9.5	Hispanic	—	—	25.5	26.8	25.9	22.9	25.3	26.7	24.5	21.4	20.9	20.8	21.9	19.0	14.6	11.9	13.4	19.4	18.1	16.8																																																																																																																																																																																																																																																																																																																																																																																																																																																														
White	—	—	20.5	22.1	23.6	24.1	23.3	24.2	24.5	23.0	22.0	22.0	22.6	21.3	21.0	20.7	19.0	18.0	18.7	19.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
African American	—	—	10.5	7.7	8.4	11.1	10.6	8.6	10.9	11.2	8.0	7.5	6.2	7.2	10.4	9.6	6.8	7.1	8.9	9.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Hispanic	—	—	25.5	26.8	25.9	22.9	25.3	26.7	24.5	21.4	20.9	20.8	21.9	19.0	14.6	11.9	13.4	19.4	18.1	16.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

(Table continued on next page.)

**TABLE 100 (cont.)**  
**LIQUOR: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12**

Percentage reporting 5+ drinks in a row on one or more occasions																			2012– 2013 change	
<i>Approximate weighted N =</i>	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Total	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	-1.0
Gender:																				
Male																				-1.8
Female																				-0.6
College Plans:																				
None or under 4 years																				+3.5
Complete 4 years																				-1.5
Region:																				
Northeast																				-7.3
Midwest																				+1.6
South																				-0.9
West																				0.0
Population Density:																				
Large MSA																				-2.3
Other MSA																				-1.6
Non-MSA																				+2.4
Parental Education: <sup>a</sup>																				
1.0–2.0 (Low)																				+3.3
2.5–3.0																				-6.2
3.5–4.0																				+4.1
4.5–5.0																				-1.1
5.5–6.0 (High)																				-4.0
Race/Ethnicity (2-year average): <sup>b</sup>																				
White																				+1.2
African American																				+2.9
Hispanic																				-0.9

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

Data based on one of five forms in 1976–1988;  $N$  is one fifth of  $N$  indicated in Table S3. Data based on one of six forms beginning in 1989;  $N$  is one sixth of  $N$  indicated in Table S3.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 101**  
**WINE: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 30 days																			→	
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988 <sup>a</sup>	1989	1990	1991	1992	1993	1994	(Years cont.)
<i>Approximate weighted N =</i>	—	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
Total	—	34.5	37.4	37.7	36.6	39.5	36.6	37.8	36.0	34.1	36.0	34.5	33.5	22.7	19.7	14.7	16.1	16.9	14.9	14.2	
Gender:																					
Male	—	34.1	35.5	34.8	33.9	38.1	35.3	35.6	33.8	30.3	34.2	30.8	29.3	20.7	18.9	16.1	16.9	17.2	15.9	13.8	
Female	—	34.5	39.1	40.2	39.0	41.1	38.2	39.9	37.7	38.1	37.4	38.1	37.1	24.3	20.4	13.5	15.5	16.6	13.9	14.3	
College Plans:																					
None or under 4 years	—	31.5	33.1	33.8	33.8	37.1	32.8	36.3	34.5	33.7	34.6	31.5	28.2	19.7	18.6	11.9	16.1	12.6	16.5	11.7	
Complete 4 years	—	38.0	41.4	41.5	38.5	41.0	39.1	39.5	37.2	34.0	37.3	36.2	35.7	24.0	20.5	16.0	16.4	18.4	14.4	14.8	
Region:																					
Northeast	—	45.2	42.6	47.5	45.3	48.0	51.6	51.4	46.0	41.5	43.9	32.0	35.6	27.7	22.1	15.0	22.1	18.5	15.2	15.9	
Midwest	—	33.8	36.3	40.8	33.8	36.6	38.5	38.9	36.0	34.3	34.1	41.0	34.0	23.0	23.7	13.4	17.3	21.9	14.0	14.3	
South	—	27.5	34.2	30.2	30.8	34.8	26.3	27.7	30.9	29.5	30.7	28.1	31.7	18.9	17.4	14.5	11.8	11.0	16.7	13.0	
West	—	34.0	38.1	32.7	40.8	42.4	31.6	32.5	32.4	34.7	38.4	38.1	33.8	24.5	16.0	16.9	16.2	18.3	13.0	15.0	
Population Density:																					
Large MSA	—	46.6	47.0	45.6	44.2	46.9	46.0	46.3	45.0	36.7	40.7	36.6	35.3	27.6	20.6	15.3	13.9	17.0	20.0	16.8	
Other MSA	—	33.0	36.5	36.8	36.0	42.1	34.6	36.6	32.4	34.0	36.4	36.0	34.9	22.0	20.5	16.8	17.8	19.0	15.0	14.4	
Non-MSA	—	28.0	31.4	32.8	31.9	31.0	32.4	32.8	33.8	32.3	31.7	30.7	29.2	19.3	16.7	9.9	15.1	12.6	11.3	11.3	
Parental Education: <sup>b</sup>																					
1.0–2.0 (Low)	—	33.4	30.1	32.3	31.4	28.0	28.0	30.2	26.6	28.3	28.6	28.0	23.9	16.4	19.0	9.5	10.8	11.7	14.3	9.8	
2.5–3.0	—	33.8	32.8	35.3	33.0	38.0	33.2	33.8	35.3	34.0	32.4	31.3	30.7	17.8	15.6	12.4	16.0	13.9	12.1	13.6	
3.5–4.0	—	36.9	42.0	40.2	38.2	39.6	37.2	42.0	32.9	35.9	36.9	37.1	31.5	23.4	18.8	14.2	16.4	15.4	14.3	11.7	
4.5–5.0	—	39.6	42.5	40.8	43.6	45.2	41.5	43.4	46.1	37.1	43.1	36.3	39.7	26.5	24.1	18.9	17.5	19.2	17.7	14.6	
5.5–6.0 (High)	—	48.4	57.3	49.8	46.7	51.7	52.9	47.5	43.2	33.9	42.6	40.1	40.9	31.4	23.5	19.3	19.4	27.1	16.5	23.8	
Race/Ethnicity (2-year average): <sup>c</sup>																					
White	—	—	35.9	38.1	38.1	39.2	40.2	39.6	38.4	36.5	36.7	37.1	35.7	29.9	23.0	18.6	16.6	17.4	16.2	14.4	
African American	—	—	36.2	30.8	27.4	27.9	24.9	26.0	28.9	24.4	21.3	21.0	21.8	18.4	15.0	11.2	10.2	11.7	14.5	17.6	
Hispanic	—	—	42.9	38.5	30.0	31.0	27.3	26.8	28.3	30.9	37.0	37.4	33.0	22.2	15.0	14.2	10.9	14.9	14.3	14.2	

(Table continued on next page.)



**TABLE 101 (cont.)**  
**WINE: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 30 days																			2012–2013 change	
	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>		
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	14.3	18.3	17.0	16.0	15.8	16.2	14.1	13.4	13.4	13.9	14.4	12.6	14.1	14.0	11.5	9.3	10.2	10.6	11.5	+0.9	
Gender:																					
Male	13.2	18.1	16.7	17.4	17.6	17.7	12.8	13.2	13.9	13.8	13.8	11.6	12.1	13.4	12.0	8.7	9.2	8.8	10.2	+1.5	
Female	15.3	18.2	17.3	15.0	14.4	15.0	15.5	13.2	13.5	14.1	15.1	13.6	15.3	14.4	10.9	10.2	11.0	12.5	12.7	+0.3	
College Plans:																					
None or under 4 years	10.6	14.5	14.2	19.0	11.9	12.0	15.9	11.7	13.8	12.7	14.4	13.9	13.1	17.3	10.3	10.6	8.3	5.6	8.9	+3.3	
Complete 4 years	15.3	19.3	18.0	15.3	16.8	17.1	13.3	13.7	13.5	14.5	14.3	11.9	14.4	13.4	11.6	9.0	10.6	11.9	12.1	+0.2	
Region:																					
Northeast	14.2	23.4	19.4	18.7	23.5	20.8	19.2	17.3	12.5	18.2	15.2	13.9	17.6	17.0	17.6	13.4	12.2	13.2	11.2	-2.0	
Midwest	14.3	13.1	14.2	17.7	16.2	11.9	13.5	14.9	13.5	13.0	15.3	13.9	14.1	13.9	14.6	12.3	8.8	10.4	12.4	+1.9	
South	15.9	20.0	17.7	13.8	14.6	17.2	13.9	12.7	14.0	12.6	13.4	12.1	13.9	13.3	7.6	6.8	10.0	9.3	10.5	+1.2	
West	11.6	16.8	17.1	15.9	11.2	15.9	11.3	9.8	13.5	12.8	14.1	10.7	11.5	13.3	8.2	7.3	10.8	10.7	12.0	+1.3	
Population Density:																					
Large MSA	14.8	19.5	18.2	19.5	17.4	20.4	16.7	17.2	11.1	12.5	16.9	15.0	16.7	18.8	12.6	9.6	11.1	16.0	12.9	-3.1	
Other MSA	15.1	18.6	18.2	15.9	16.5	14.6	11.5	11.8	15.0	15.4	14.0	12.8	13.5	13.0	12.3	10.3	11.0	9.4	10.3	+0.9	
Non-MSA	12.4	16.6	13.6	12.3	13.3	14.2	15.6	11.9	13.5	12.8	12.2	8.9	11.3	11.0	8.3	6.6	7.4	5.6	12.2	+6.6 ss	
Parental Education: <sup>b</sup>																					
1.0–2.0 (Low)	13.5	9.7	13.1	14.6	16.7	19.7	12.3	14.8	9.4	12.8	10.9	4.0	9.9	11.3	9.1	5.7	9.0	8.9	5.6	-3.3	
2.5–3.0	10.2	15.2	13.8	10.2	10.5	10.4	13.6	8.6	13.1	10.9	13.4	10.6	9.0	11.9	8.8	9.5	5.8	9.0	10.5	+1.5	
3.5–4.0	10.5	17.9	15.7	15.1	11.5	14.6	10.2	13.1	13.1	15.6	12.2	11.4	15.3	13.3	10.2	7.5	11.2	11.1	12.0	+1.0	
4.5–5.0	18.1	18.0	18.0	20.8	19.6	16.2	19.1	15.4	15.5	14.1	16.8	15.5	16.4	13.7	13.6	12.3	8.8	11.6	14.9	+3.4	
5.5–6.0 (High)	24.9	27.2	29.1	20.0	29.8	29.1	16.7	19.0	15.8	18.3	18.2	18.4	19.9	17.2	17.9	10.0	17.3	12.4	11.4	-1.0	
Race/Ethnicity (2-year average): <sup>c</sup>																					
White	14.4	16.8	19.3	18.1	16.6	16.4	15.9	15.2	14.5	14.7	15.5	15.6	15.4	14.3	12.8	11.5	10.8	11.5	12.2	+0.7	
African American	13.6	12.8	11.1	9.9	9.3	9.5	10.9	8.5	8.0	7.9	7.8	6.1	6.5	11.2	11.6	7.6	8.8	10.4	10.5	+0.1	
Hispanic	15.0	13.8	13.5	13.4	16.4	17.9	12.9	9.4	12.2	13.5	13.1	10.5	11.0	15.7	14.2	9.4	8.2	9.4	7.8	-1.6	

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

*Notes.* Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

Data based on one of five forms in 1976–1988; *N* is one fifth of *N* indicated in Table S3. Data based on one of six forms beginning in 1989; *N* is one sixth of *N* indicated in Table S3.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

<sup>b</sup>Parental education is an average score of mother’s education and father’s education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 102**

**WINE: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12**

Percentage reporting 5+ drinks in a row on one or more occasions																				→	
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988 <sup>a</sup>	1989	1990	1991	1992	1993	1994	(Years cont.)
<i>Approximate weighted N =</i>	—	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
Total	—	12.5	13.1	13.5	12.9	13.2	13.0	14.9	14.3	13.0	12.8	13.8	12.7	7.8	6.8	4.9	5.8	5.7	5.8	4.9	
Gender:																					
Male	—	14.5	13.9	14.3	13.9	13.3	12.2	12.6	14.4	12.6	12.9	12.4	12.3	7.8	6.1	5.5	7.1	6.5	7.2	4.9	
Female	—	10.4	12.1	12.8	12.0	12.8	13.5	16.8	13.9	13.1	12.5	14.6	12.8	7.7	7.3	4.3	4.6	4.5	4.4	4.9	
College Plans:																					
None or under 4 years	—	14.1	14.6	14.6	14.8	15.3	13.2	16.1	15.7	14.4	13.9	14.6	13.7	9.5	9.0	5.1	8.0	6.7	8.3	4.0	
Complete 4 years	—	10.4	11.6	12.7	11.4	11.3	12.6	13.9	13.2	11.9	11.9	13.3	12.0	7.1	6.0	4.9	5.3	5.4	5.1	5.3	
Region:																					
Northeast	—	14.8	14.8	15.0	16.4	18.2	17.9	18.3	19.1	16.9	15.7	11.5	10.7	8.1	7.4	3.6	7.1	4.5	3.4	4.2	
Midwest	—	13.8	12.9	15.4	12.6	12.2	13.9	16.0	13.6	14.1	12.3	17.2	13.5	7.8	6.9	3.9	5.6	7.2	4.6	4.6	
South	—	10.1	11.8	11.7	11.8	11.6	10.0	12.4	12.5	11.0	10.9	12.9	13.1	6.8	6.7	5.4	5.1	4.1	8.2	4.7	
West	—	10.8	13.4	10.9	10.4	11.6	9.8	12.0	13.1	10.9	13.3	12.2	13.2	9.5	6.3	7.0	6.0	7.1	5.3	6.5	
Population Density:																					
Large MSA	—	17.0	14.9	14.7	14.3	14.9	16.8	17.9	17.1	14.1	14.0	13.5	11.0	9.7	6.1	4.4	5.3	6.1	5.4	4.7	
Other MSA	—	11.4	13.0	12.5	11.8	13.2	11.6	13.3	12.6	12.4	13.7	13.8	13.6	7.8	8.0	4.9	6.5	5.8	6.8	6.2	
Non-MSA	—	10.7	11.8	14.0	13.1	12.0	11.8	14.7	14.4	13.0	10.6	13.9	12.9	6.0	4.8	5.2	4.9	5.1	4.5	3.2	
Parental Education: <sup>b</sup>																					
1.0–2.0 (Low)	—	14.0	16.4	14.9	12.7	10.2	13.7	15.7	12.1	12.8	11.9	14.7	12.2	8.2	8.3	4.6	5.7	8.0	12.4	4.9	
2.5–3.0	—	13.4	12.0	13.7	12.4	15.4	13.1	12.1	16.8	14.6	12.1	13.6	13.0	7.2	6.2	5.4	6.8	4.8	5.3	3.8	
3.5–4.0	—	11.7	14.0	12.2	10.3	13.0	13.4	16.7	12.4	15.0	13.1	14.9	12.1	7.5	6.3	5.4	6.5	4.1	4.3	5.5	
4.5–5.0	—	12.4	9.4	12.9	16.5	12.7	11.2	14.9	14.4	10.2	13.4	12.2	13.3	7.7	8.0	4.3	4.9	6.1	6.0	3.7	
5.5–6.0 (High)	—	14.4	15.4	15.0	16.5	12.0	14.2	21.2	12.5	7.7	14.5	12.9	12.3	9.5	5.0	4.4	3.5	8.3	4.4	8.4	
Race/Ethnicity (2-year average): <sup>c</sup>																					
White	—	—	12.0	13.1	13.4	13.1	13.4	14.4	14.8	13.8	13.3	13.6	13.4	10.4	7.5	6.0	5.3	5.5	5.0	4.8	
African American	—	—	16.7	12.6	10.8	10.4	9.0	10.0	11.4	10.1	8.3	8.3	7.6	8.3	7.8	4.7	5.1	5.1	7.6	7.5	
Hispanic	—	—	19.3	14.7	9.7	9.5	15.3	15.1	15.8	14.3	13.4	16.1	14.7	8.4	5.1	6.4	4.3	7.5	7.8	7.2	

(Table continued on next page.)

TABLE 102 (cont.)

**WINE: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12**

Percentage reporting 5+ drinks in a row on one or more occasions

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2012–2013 change	
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	5.8	7.0	6.4	6.4	5.0	5.4	5.9	4.7	5.0	4.9	5.4	4.4	5.1	5.0	4.0	3.7	3.5	3.9	4.0	+0.1	
Gender:																					
Male	6.1	8.3	6.9	6.9	6.5	7.3	5.8	4.6	5.7	6.2	5.1	4.9	4.7	4.8	3.6	3.5	4.0	3.3	4.4	+1.0	
Female	5.6	5.7	6.1	5.8	3.8	3.6	5.3	4.1	4.3	3.5	5.6	4.1	5.6	5.1	4.3	3.7	2.9	4.1	4.2	0.0	
College Plans:																					
None or under 4 years	6.1	5.7	8.7	9.6	5.0	4.2	7.8	6.4	7.0	5.2	7.1	6.0	5.4	7.7	3.4	4.6	3.8	1.6	3.7	+2.2	
Complete 4 years	5.4	7.2	5.7	5.5	5.1	5.6	5.2	4.1	4.5	4.8	4.8	4.0	5.1	4.3	3.9	3.3	3.5	4.4	3.7	-0.7	
Region:																					
Northeast	5.9	10.2	6.6	8.0	5.4	5.9	8.3	5.3	4.1	4.6	5.2	5.6	8.3	4.2	5.8	5.7	4.8	5.7	4.7	-1.0	
Midwest	6.3	5.7	5.5	6.4	6.4	5.3	4.5	4.6	5.5	5.1	6.1	5.0	4.9	6.2	5.1	4.3	2.2	4.0	3.9	-0.1	
South	6.9	6.7	7.2	5.7	5.0	5.2	5.8	3.9	5.4	4.9	5.1	3.6	4.4	4.7	2.7	2.7	4.1	3.4	3.9	+0.6	
West	3.0	6.1	6.3	6.5	3.2	5.5	6.1	5.8	4.5	4.9	5.3	4.1	4.1	4.8	3.0	3.0	3.3	3.3	3.8	+0.5	
Population Density:																					
Large MSA	5.6	9.6	7.3	6.6	5.3	6.7	5.5	5.4	4.1	5.3	5.8	5.3	6.4	4.2	3.9	3.6	3.8	5.2	4.4	-0.8	
Other MSA	5.4	7.0	6.4	6.6	4.2	5.4	5.4	3.2	5.0	4.6	5.3	3.9	5.3	5.4	4.2	4.2	4.0	3.5	3.2	-0.3	
Non-MSA	6.6	4.9	5.6	5.8	6.2	3.9	7.0	6.7	5.9	5.0	5.2	4.1	2.9	5.2	3.8	2.4	2.1	3.0	5.4	+2.5	
Parental Education: <sup>b</sup>																					
1.0–2.0 (Low)	6.1	4.2	5.2	10.7	8.2	11.3	8.0	8.2	6.8	6.4	5.6	4.3	2.3	5.1	4.3	2.4	2.5	2.1	2.2	+0.1	
2.5–3.0	5.6	6.5	6.8	6.0	3.5	3.7	5.6	4.6	6.6	4.4	5.3	2.8	3.1	5.2	3.5	3.4	3.0	4.1	5.7	+1.6	
3.5–4.0	4.2	7.1	4.8	5.7	4.1	5.3	4.7	4.5	4.6	6.5	4.6	3.6	6.5	5.2	3.6	3.2	3.3	3.3	5.4	+2.1	
4.5–5.0	5.6	4.4	8.1	7.6	4.7	4.8	7.2	4.4	4.1	4.1	4.7	5.2	5.3	3.9	5.3	4.5	3.6	5.2	3.6	-1.7	
5.5–6.0 (High)	11.1	13.0	8.2	4.5	8.8	6.5	5.5	4.4	4.2	4.2	8.1	7.3	7.5	4.5	3.8	3.7	5.4	3.6	1.8	-1.7	
Race/Ethnicity (2-year average): <sup>c</sup>																					
White	5.2	6.2	6.9	6.5	5.4	4.7	4.8	4.9	5.0	4.9	5.1	5.2	5.2	4.9	4.1	4.1	4.0	3.6	3.7	+0.1	
African American	4.0	4.9	5.1	5.3	4.5	5.2	6.5	5.0	4.3	3.5	2.3	1.7	2.6	3.8	4.5	4.3	3.6	4.0	4.4	+0.4	
Hispanic	7.3	7.6	7.6	7.1	7.8	7.8	7.8	4.7	3.5	5.2	5.0	3.9	4.4	5.6	5.2	3.3	2.6	4.3	3.7	-0.7	

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of five forms in 1976–1988; *N* is one fifth of *N* indicated in Table S3. Data based on one of six forms beginning in 1989; *N* is one sixth of *N* indicated in Table S3.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>In the 1988 questionnaires, a question on the use of wine coolers was added. This change may account for the discontinuity between the 1987 and 1988 use rates for wine.

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 103**  
**WINE COOLERS: Trends in 30-Day Prevalence of Use by Subgroups in Grade 8**

		Percentage who used in last 30 days													
		1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004– 2013
<i>Approximate weighted N =</i>		17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	—
Total		14.8	15.1	16.1	15.9	15.3	17.5	15.9	15.6	16.5	14.8	15.3	12.9	12.4	—
Gender:															
Male		14.7	13.8	16.2	15.8	14.6	16.1	14.5	15.4	16.7	13.4	14.2	11.9	10.2	—
Female		14.6	16.2	16.0	16.2	15.6	18.7	16.9	15.8	16.3	15.9	15.9	13.3	14.3	—
College Plans:															
None or under 4 years		21.2	23.9	30.6	28.1	25.3	28.7	32.1	27.3	31.9	28.5	31.6	21.1	24.2	—
Complete 4 years		13.7	14.0	14.3	14.5	14.1	15.7	14.0	14.3	14.7	13.3	13.4	12.2	11.1	—
Region:															
Northeast		9.8	11.5	12.7	15.8	15.0	17.7	14.5	15.7	15.4	13.5	17.7	11.8	10.9	—
Midwest		14.5	14.6	15.7	15.0	13.9	18.5	16.1	16.2	17.6	17.0	14.8	12.1	15.5	—
South		17.4	18.1	17.8	16.7	17.0	17.5	16.6	16.2	18.6	14.6	16.8	15.0	12.7	—
West		14.8	14.2	17.3	15.9	13.9	16.0	15.3	14.0	12.7	13.3	11.4	11.3	8.9	—
Population Density:															
Large MSA		14.1	16.4	12.7	14.4	11.1	16.5	14.1	14.0	14.0	12.9	12.3	12.1	10.4	—
Other MSA		14.6	15.4	17.4	17.8	16.1	18.2	15.7	15.4	16.8	14.5	15.4	12.7	12.3	—
Non-MSA		15.8	13.4	17.3	13.2	15.8	17.3	17.9	17.6	18.9	17.5	18.3	14.4	14.7	—
Parental Education: <sup>a</sup>															
1.0–2.0 (Low)		19.3	18.7	18.5	21.1	20.4	21.7	22.2	20.7	30.2	22.1	25.1	22.8	18.2	—
2.5–3.0		16.9	16.6	19.9	17.7	17.6	20.2	19.2	17.8	19.7	18.1	19.7	14.3	15.4	—
3.5–4.0		12.9	16.8	17.2	18.4	15.7	18.4	16.8	16.6	17.5	14.3	19.6	15.7	15.8	—
4.5–5.0		13.9	11.8	13.5	12.0	12.5	15.4	11.9	13.6	13.1	11.8	9.0	9.8	8.1	—
5.5–6.0 (High)		13.5	12.5	11.9	14.7	13.2	13.8	13.5	14.2	11.4	12.1	8.2	9.0	8.7	—
Race/Ethnicity (2-year average): <sup>b</sup>															
White		—	14.4	15.1	15.1	14.9	16.4	16.5	15.4	16.0	15.9	15.0	14.0	12.6	—
African American		—	13.7	13.3	14.4	12.7	12.2	14.7	12.8	12.8	13.1	12.0	9.8	9.6	—
Hispanic		—	21.9	23.2	23.4	24.4	22.9	21.3	21.2	22.4	21.1	18.5	18.9	18.8	—

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996;  $N$  is one half of  $N$  indicated in Table S1. Data based on one of four forms beginning in 1997;  $N$  is one third of  $N$  indicated in Table S1. The category of wine coolers was dropped from the 8th- and 10th-grade questionnaires in 2004 to make space for a more general class of flavored alcoholic beverages.

**Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.**

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 104**  
**WINE COOLERS: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 30 days													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004– 2013
<i>Approximate weighted N =</i>	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	—
Total	24.0	21.5	22.5	21.8	20.8	22.8	22.1	20.9	22.1	21.2	20.8	18.9	17.2	—
Gender:														
Male	23.9	19.8	20.5	21.9	19.4	21.8	20.6	19.0	20.5	19.6	19.8	16.0	14.8	—
Female	24.1	22.9	24.3	21.6	21.9	23.6	23.4	22.0	23.4	22.6	21.7	21.6	19.5	—
College Plans:														
None or under 4 years	31.1	26.7	27.6	28.4	28.9	33.0	28.4	29.3	33.4	32.6	31.6	30.2	23.8	—
Complete 4 years	22.5	20.5	21.4	20.4	19.4	21.0	21.1	19.3	20.3	19.5	19.1	17.2	16.2	—
Region:														
Northeast	23.2	19.0	24.1	21.6	18.5	20.3	21.0	19.1	21.7	18.8	21.5	18.1	18.7	—
Midwest	23.0	20.2	20.4	21.6	20.6	21.9	20.9	19.1	21.1	20.6	20.2	19.2	15.3	—
South	26.0	23.3	23.6	23.0	22.9	25.0	23.4	22.5	24.0	23.3	21.4	17.7	16.9	—
West	23.0	22.7	23.0	20.2	19.2	22.3	22.4	22.0	20.3	20.7	19.6	21.5	18.2	—
Population Density:														
Large MSA	23.1	21.6	21.5	21.2	16.4	19.3	20.2	16.9	23.1	19.8	19.9	17.4	17.0	—
Other MSA	23.8	22.3	22.4	22.6	20.7	23.7	22.2	21.9	21.3	19.7	19.7	18.7	16.4	—
Non-MSA	25.1	20.0	23.6	20.4	23.7	24.6	23.8	23.2	22.6	25.6	23.7	21.2	19.5	—
Parental Education: <sup>a</sup>														
1.0–2.0 (Low)	25.9	24.4	27.4	24.4	27.7	25.4	21.1	22.6	26.3	23.8	22.2	20.3	23.4	—
2.5–3.0	26.8	21.3	22.3	22.4	23.8	25.5	24.3	25.4	25.1	24.2	22.7	22.5	19.8	—
3.5–4.0	24.8	22.5	22.5	22.3	22.1	23.7	23.6	22.0	22.3	23.6	22.2	19.1	17.5	—
4.5–5.0	21.8	20.6	21.9	21.4	19.1	19.9	21.2	15.6	17.5	19.4	17.7	18.2	15.4	—
5.5–6.0 (High)	20.7	20.5	20.2	17.8	14.5	21.3	18.5	18.5	21.2	14.2	20.3	13.7	13.3	—
Race/Ethnicity (2-year average): <sup>b</sup>														
White	—	23.0	21.9	22.1	21.2	21.7	22.6	21.7	21.6	21.9	21.2	20.3	18.1	—
African American	—	19.9	19.3	20.6	20.0	16.6	16.1	17.6	17.0	18.1	18.3	15.3	15.2	—
Hispanic	—	26.3	26.2	24.7	24.9	28.1	28.0	24.1	24.5	25.2	24.5	22.3	21.7	—

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996;  $N$  is one half of  $N$  indicated in Table S2. Data based on one of four forms beginning in 1997;  $N$  is one third of  $N$  indicated in Table S2. The category of wine coolers was dropped from the 8th- and 10th-grade questionnaires in 2004 to make space for a more general class of flavored alcoholic beverages.

**Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.**

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 105**  
**WINE COOLERS: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 30 days																		→ (Years cont.)		
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992		1993	1994
Approximate weighted N =	—	—	—	—	—	—	—	—	—	—	—	—	—	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	36.6	29.4	26.2	24.3	21.9	19.4	22.2	
Gender:																					
Male	—	—	—	—	—	—	—	—	—	—	—	—	—	30.8	25.5	22.7	22.1	19.1	15.1	16.9	
Female	—	—	—	—	—	—	—	—	—	—	—	—	—	41.5	33.6	29.8	26.3	24.3	22.8	26.4	
College Plans:																					
None or under 4 years	—	—	—	—	—	—	—	—	—	—	—	—	—	38.2	30.9	29.2	29.3	21.9	20.5	22.8	
Complete 4 years	—	—	—	—	—	—	—	—	—	—	—	—	—	35.9	28.6	24.9	22.8	22.0	19.2	22.3	
Region:																					
Northeast	—	—	—	—	—	—	—	—	—	—	—	—	—	33.8	29.6	29.2	21.0	19.6	18.9	15.4	
Midwest	—	—	—	—	—	—	—	—	—	—	—	—	—	37.9	33.0	28.6	26.1	23.7	19.4	26.0	
South	—	—	—	—	—	—	—	—	—	—	—	—	—	33.6	25.7	22.9	23.1	21.3	20.6	23.4	
West	—	—	—	—	—	—	—	—	—	—	—	—	—	42.7	31.3	24.7	26.3	22.2	17.8	19.8	
Population Density:																					
Large MSA	—	—	—	—	—	—	—	—	—	—	—	—	—	37.7	28.6	25.9	20.9	21.2	20.4	21.2	
Other MSA	—	—	—	—	—	—	—	—	—	—	—	—	—	37.1	31.1	28.7	28.1	21.0	19.0	23.3	
Non-MSA	—	—	—	—	—	—	—	—	—	—	—	—	—	34.6	26.4	21.1	20.6	24.1	19.4	21.3	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	—	—	—	—	—	—	—	—	—	—	—	—	—	28.8	27.7	22.9	24.0	25.7	20.8	23.5	
2.5–3.0	—	—	—	—	—	—	—	—	—	—	—	—	—	37.8	31.9	28.1	25.4	21.2	17.1	26.4	
3.5–4.0	—	—	—	—	—	—	—	—	—	—	—	—	—	38.5	31.2	27.1	27.2	22.9	24.4	20.9	
4.5–5.0	—	—	—	—	—	—	—	—	—	—	—	—	—	35.6	27.6	27.6	22.1	18.0	17.2	22.8	
5.5–6.0 (High)	—	—	—	—	—	—	—	—	—	—	—	—	—	36.9	23.5	21.5	18.0	24.5	16.4	14.6	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	—	—	—	—	—	—	—	—	—	—	—	—	—	—	35.4	29.6	26.7	23.7	21.3	21.5	
African American	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25.3	21.7	20.9	18.2	17.6	18.3	
Hispanic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30.2	23.3	22.3	26.7	22.9	22.9	

(Table continued on next page.)

**TABLE 105 (cont.)**  
**WINE COOLERS: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 30 days																		2012– 2013 <u>change</u>		
	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>		<u>2013</u>	
<i>Approximate weighted N =</i>	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	20.6	20.7	20.7	20.1	18.4	17.6	19.0	19.3	14.6	14.4	14.1	13.3	12.7	12.8	12.2	12.4	10.0	10.7	11.3	+0.6	
Gender:																					
Male	15.5	17.7	15.9	15.0	15.6	15.6	14.1	12.0	9.4	11.2	8.7	9.2	9.2	8.3	7.6	9.1	6.1	6.7	6.6	-0.1	
Female	25.1	23.6	24.4	23.5	20.6	19.5	22.2	24.2	18.9	17.2	18.7	17.1	16.1	16.6	16.0	16.2	13.4	14.6	15.6	+0.9	
College Plans:																					
None or under 4 years	22.7	20.0	17.8	21.8	22.8	21.2	23.1	21.8	17.2	16.7	18.6	17.5	18.0	16.8	15.1	18.6	12.7	10.8	13.7	+2.9	
Complete 4 years	19.8	20.9	21.6	19.6	17.3	16.1	17.7	18.8	14.0	13.7	13.2	12.3	11.5	12.0	11.4	11.3	9.5	10.8	10.8	0.0	
Region:																					
Northeast	14.6	21.1	17.2	20.8	22.1	19.1	18.4	17.8	15.9	14.7	17.3	13.3	15.2	11.7	11.7	15.9	14.8	13.5	14.0	+0.5	
Midwest	19.8	20.9	21.5	18.6	19.2	18.3	19.5	20.9	15.5	11.0	13.7	13.2	11.9	12.3	14.4	12.3	9.5	10.9	12.7	+1.9	
South	24.1	23.2	22.9	20.6	18.7	16.8	19.7	20.6	13.9	16.7	13.5	14.6	13.0	15.1	10.1	12.8	9.8	9.4	9.3	-0.1	
West	20.4	14.9	18.9	20.4	13.7	16.7	17.5	16.6	13.1	14.6	12.7	10.9	10.9	10.8	13.1	9.4	7.7	10.6	10.9	+0.3	
Population Density:																					
Large MSA	20.7	22.7	23.9	22.5	14.7	19.8	18.1	20.5	12.8	14.2	13.5	10.7	11.9	11.4	11.9	12.2	11.6	11.8	12.2	+0.4	
Other MSA	19.8	19.3	19.1	19.4	17.5	15.0	18.5	18.4	13.7	13.8	13.2	14.4	12.6	12.8	12.8	12.8	8.5	9.5	10.4	+0.9	
Non-MSA	21.8	21.6	20.1	18.7	23.4	19.4	20.6	19.4	18.0	15.6	16.7	14.7	13.9	14.3	11.3	11.8	11.4	12.2	12.3	+0.1	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	21.1	18.2	13.2	19.8	19.0	24.8	19.3	18.4	13.7	21.3	15.6	12.8	18.4	17.3	17.4	13.5	12.8	10.6	11.0	+0.4	
2.5–3.0	20.4	26.8	20.0	21.4	23.2	16.3	22.8	19.6	18.1	17.2	19.8	15.6	13.1	12.8	11.1	16.7	15.5	10.2	13.1	+3.0	
3.5–4.0	22.0	19.5	23.0	23.3	17.3	21.8	18.5	17.8	14.7	16.4	12.6	15.3	13.5	12.3	14.5	11.6	7.7	11.9	12.7	+0.8	
4.5–5.0	21.0	17.0	21.4	17.9	14.3	13.6	19.0	19.4	12.4	9.1	13.6	12.7	10.8	11.1	11.0	10.9	8.5	12.3	11.0	-1.3	
5.5–6.0 (High)	16.7	20.8	21.0	16.6	19.9	16.8	14.6	23.5	10.1	13.3	9.8	9.8	11.7	12.5	7.1	10.7	8.2	6.5	9.6	+3.1	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	21.9	20.8	21.2	21.0	19.6	18.0	18.2	19.7	16.8	13.1	13.6	14.6	13.1	11.4	11.1	12.5	12.0	10.8	11.2	+0.4	
African American	17.6	22.1	21.1	18.4	15.5	12.4	17.0	17.0	15.8	19.4	18.4	10.9	11.8	16.8	18.5	13.0	8.3	8.9	10.9	+2.0	
Hispanic	26.0	22.0	19.8	18.2	17.4	20.7	20.0	16.7	16.0	19.7	19.4	13.8	13.0	12.9	13.2	12.7	10.5	9.7	11.2	+1.6	

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.  
 Data based on one of five forms in 1988;  $N$  is one fifth of  $N$  indicated in Table S3. Data based on one of six forms beginning in 1989;  $N$  is one sixth of  $N$  indicated in Table S3.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 106

**WINE COOLERS: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12**

	Percentage reporting 5+ drinks in a row on one or more occasions																			→ (Years cont.)
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
<i>Approximate weighted N =</i>	—	—	—	—	—	—	—	—	—	—	—	—	—	16,300	16,700	15,200	15,000	15,800	16,300	15,400
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	13.9	12.4	10.5	10.2	10.4	8.5	8.9
Gender:																				
Male	—	—	—	—	—	—	—	—	—	—	—	—	—	12.1	11.3	9.9	10.0	10.2	7.3	7.4
Female	—	—	—	—	—	—	—	—	—	—	—	—	—	15.1	13.5	11.3	10.2	10.3	9.5	10.0
College Plans:																				
None or under 4 years	—	—	—	—	—	—	—	—	—	—	—	—	—	17.7	16.2	14.2	13.5	11.1	10.8	10.9
Complete 4 years	—	—	—	—	—	—	—	—	—	—	—	—	—	12.5	10.7	9.0	9.2	10.1	8.0	8.6
Region:																				
Northeast	—	—	—	—	—	—	—	—	—	—	—	—	—	14.7	14.3	10.0	7.6	8.8	6.5	5.5
Midwest	—	—	—	—	—	—	—	—	—	—	—	—	—	14.2	13.1	12.0	10.9	12.0	8.0	9.9
South	—	—	—	—	—	—	—	—	—	—	—	—	—	11.2	11.2	9.3	8.8	10.3	11.1	9.3
West	—	—	—	—	—	—	—	—	—	—	—	—	—	17.4	12.0	11.0	13.2	9.7	6.2	10.0
Population Density:																				
Large MSA	—	—	—	—	—	—	—	—	—	—	—	—	—	14.2	11.7	10.0	7.9	11.8	7.9	8.5
Other MSA	—	—	—	—	—	—	—	—	—	—	—	—	—	15.6	12.4	11.0	12.4	9.2	8.7	8.8
Non-MSA	—	—	—	—	—	—	—	—	—	—	—	—	—	10.7	13.3	9.9	8.2	11.7	8.6	9.6
Parental Education: <sup>a</sup>																				
1.0–2.0 (Low)	—	—	—	—	—	—	—	—	—	—	—	—	—	13.9	9.2	10.7	12.5	13.1	12.2	11.4
2.5–3.0	—	—	—	—	—	—	—	—	—	—	—	—	—	16.6	13.8	13.3	10.9	9.5	6.9	10.4
3.5–4.0	—	—	—	—	—	—	—	—	—	—	—	—	—	13.6	14.9	9.3	12.0	11.1	11.1	8.8
4.5–5.0	—	—	—	—	—	—	—	—	—	—	—	—	—	11.7	10.5	11.3	9.2	8.8	7.4	9.2
5.5–6.0 (High)	—	—	—	—	—	—	—	—	—	—	—	—	—	11.4	7.4	6.3	3.7	10.6	5.6	4.8
Race/Ethnicity (2-year average): <sup>b</sup>																				
White	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.6	12.3	10.7	10.3	9.5	8.6
African American	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.0	9.9	9.2	8.7	8.6	8.6
Hispanic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.5	6.0	9.8	14.5	13.5	13.1

(Table continued on next page.)



**TABLE 106 (cont.)**  
**WINE COOLERS: Trends in 2-Week Prevalence of 5 or More Drinks in a Row by Subgroups in Grade 12**

	Percentage reporting 5+ drinks in a row on one or more occasions																			2012– 2013 change																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
<i>Approximate weighted N =</i>	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Total	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	-0.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Gender:																					Male	9.0	8.4	9.4	9.5	7.7	8.8	9.7	10.0	7.1	7.5	7.2	7.1	5.8	7.3	6.2	6.4	4.9	5.4	5.3	-0.1	Female	6.7	6.9	6.7	7.0	7.0	9.4	6.2	7.2	5.4	7.5	4.2	6.1	4.8	4.5	3.5	5.7	3.6	3.0	4.1	+1.1	College Plans:	10.8	9.7	11.3	11.0	7.8	8.4	11.4	11.4	8.2	8.0	9.7	8.0	7.0	9.6	8.7	7.0	6.1	7.2	6.4	-0.9	None or under 4 years	12.1	8.8	10.1	9.9	10.2	12.1	14.8	13.7	8.9	10.8	11.4	11.9	11.1	8.2	9.4	9.9	6.2	6.7	7.9	+1.2	Complete 4 years	8.0	8.3	9.2	9.5	7.0	7.4	8.2	9.2	6.7	6.8	6.2	6.0	4.7	7.0	5.6	5.6	4.5	5.1	4.6	-0.5	Region:																					Northeast	5.5	9.8	8.2	9.6	8.9	10.1	10.2	9.8	8.0	7.5	10.7	6.9	6.1	7.4	5.9	7.5	9.4	6.1	6.0	-0.1	Midwest	7.0	9.2	9.7	7.3	7.0	10.8	8.9	12.0	8.8	6.4	6.6	7.3	6.0	8.1	7.8	6.1	5.0	4.6	6.9	+2.3	South	11.5	8.7	9.7	10.5	8.8	5.9	10.9	9.6	6.7	8.6	6.6	8.3	5.7	8.4	4.9	7.3	4.6	6.1	3.9	-2.2 s	West	10.4	4.8	9.7	10.2	5.6	10.1	8.4	8.4	5.0	7.1	5.7	5.1	5.5	4.6	6.7	4.3	2.5	4.9	5.0	+0.1	Population Density:																					Large MSA	11.1	8.8	10.8	12.1	7.5	11.1	10.6	9.6	6.8	7.2	7.0	6.4	5.3	6.3	4.8	7.1	4.9	6.8	6.3	-0.4	Other MSA	7.5	8.3	9.5	8.7	6.5	8.1	8.2	9.9	6.3	7.0	7.4	6.6	6.4	6.7	6.6	6.5	4.0	3.8	4.0	+0.2	Non-MSA	9.1	8.2	7.8	7.9	9.7	7.4	11.3	10.7	8.9	8.9	7.1	9.1	5.3	9.4	7.2	4.9	7.2	6.8	7.0	+0.2	Parental Education: <sup>a</sup>																					1.0–2.0 (Low)	11.7	9.6	6.8	13.2	8.3	16.8	14.1	14.6	9.3	11.9	8.3	12.0	8.8	9.1	9.7	7.5	8.4	4.9	8.3	+3.4	2.5–3.0	9.5	11.4	9.8	11.0	9.2	8.8	12.6	9.9	9.4	9.5	9.9	8.2	8.1	8.0	5.4	8.5	7.9	6.7	4.9	-1.8	3.5–4.0	8.5	6.8	10.6	9.9	7.7	8.8	7.3	9.9	6.1	9.1	6.2	7.4	5.6	6.8	8.6	5.6	4.0	5.0	6.6	+1.6	4.5–5.0	9.2	7.2	8.6	7.7	7.2	8.6	10.7	10.7	5.9	4.2	6.8	7.4	4.7	5.5	4.2	5.3	3.4	5.7	4.3	-1.4	5.5–6.0 (High)	7.5	7.7	9.5	7.9	5.8	7.0	6.1	8.0	5.9	5.5	5.2	3.4	4.1	8.3	3.8	5.2	3.5	3.0	4.6	+1.6	Race/Ethnicity (2-year average): <sup>b</sup>																					White	8.6	8.1	8.7	8.8	7.6	7.6	8.9	10.2	8.4	6.4	6.9	7.5	6.4	5.4	5.5	6.1	6.1	5.3	5.4	+0.1	African American	7.5	10.4	10.0	9.2	6.9	4.2	9.6	10.0	7.8	11.7	10.5	4.6	4.9	6.6	8.2	7.2	4.3	3.9	4.7	+0.7	Hispanic	13.9	11.1	9.8	12.0	12.6	13.2	11.5	9.1	9.3	10.6	9.4	8.0	7.9	8.1	8.8	7.4	5.6	5.4	5.8	+0.4
Male	9.0	8.4	9.4	9.5	7.7	8.8	9.7	10.0	7.1	7.5	7.2	7.1	5.8	7.3	6.2	6.4	4.9	5.4	5.3	-0.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Female	6.7	6.9	6.7	7.0	7.0	9.4	6.2	7.2	5.4	7.5	4.2	6.1	4.8	4.5	3.5	5.7	3.6	3.0	4.1	+1.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
College Plans:	10.8	9.7	11.3	11.0	7.8	8.4	11.4	11.4	8.2	8.0	9.7	8.0	7.0	9.6	8.7	7.0	6.1	7.2	6.4	-0.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
None or under 4 years	12.1	8.8	10.1	9.9	10.2	12.1	14.8	13.7	8.9	10.8	11.4	11.9	11.1	8.2	9.4	9.9	6.2	6.7	7.9	+1.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Complete 4 years	8.0	8.3	9.2	9.5	7.0	7.4	8.2	9.2	6.7	6.8	6.2	6.0	4.7	7.0	5.6	5.6	4.5	5.1	4.6	-0.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Region:																					Northeast	5.5	9.8	8.2	9.6	8.9	10.1	10.2	9.8	8.0	7.5	10.7	6.9	6.1	7.4	5.9	7.5	9.4	6.1	6.0	-0.1	Midwest	7.0	9.2	9.7	7.3	7.0	10.8	8.9	12.0	8.8	6.4	6.6	7.3	6.0	8.1	7.8	6.1	5.0	4.6	6.9	+2.3	South	11.5	8.7	9.7	10.5	8.8	5.9	10.9	9.6	6.7	8.6	6.6	8.3	5.7	8.4	4.9	7.3	4.6	6.1	3.9	-2.2 s	West	10.4	4.8	9.7	10.2	5.6	10.1	8.4	8.4	5.0	7.1	5.7	5.1	5.5	4.6	6.7	4.3	2.5	4.9	5.0	+0.1	Population Density:																					Large MSA	11.1	8.8	10.8	12.1	7.5	11.1	10.6	9.6	6.8	7.2	7.0	6.4	5.3	6.3	4.8	7.1	4.9	6.8	6.3	-0.4	Other MSA	7.5	8.3	9.5	8.7	6.5	8.1	8.2	9.9	6.3	7.0	7.4	6.6	6.4	6.7	6.6	6.5	4.0	3.8	4.0	+0.2	Non-MSA	9.1	8.2	7.8	7.9	9.7	7.4	11.3	10.7	8.9	8.9	7.1	9.1	5.3	9.4	7.2	4.9	7.2	6.8	7.0	+0.2	Parental Education: <sup>a</sup>																					1.0–2.0 (Low)	11.7	9.6	6.8	13.2	8.3	16.8	14.1	14.6	9.3	11.9	8.3	12.0	8.8	9.1	9.7	7.5	8.4	4.9	8.3	+3.4	2.5–3.0	9.5	11.4	9.8	11.0	9.2	8.8	12.6	9.9	9.4	9.5	9.9	8.2	8.1	8.0	5.4	8.5	7.9	6.7	4.9	-1.8	3.5–4.0	8.5	6.8	10.6	9.9	7.7	8.8	7.3	9.9	6.1	9.1	6.2	7.4	5.6	6.8	8.6	5.6	4.0	5.0	6.6	+1.6	4.5–5.0	9.2	7.2	8.6	7.7	7.2	8.6	10.7	10.7	5.9	4.2	6.8	7.4	4.7	5.5	4.2	5.3	3.4	5.7	4.3	-1.4	5.5–6.0 (High)	7.5	7.7	9.5	7.9	5.8	7.0	6.1	8.0	5.9	5.5	5.2	3.4	4.1	8.3	3.8	5.2	3.5	3.0	4.6	+1.6	Race/Ethnicity (2-year average): <sup>b</sup>																					White	8.6	8.1	8.7	8.8	7.6	7.6	8.9	10.2	8.4	6.4	6.9	7.5	6.4	5.4	5.5	6.1	6.1	5.3	5.4	+0.1	African American	7.5	10.4	10.0	9.2	6.9	4.2	9.6	10.0	7.8	11.7	10.5	4.6	4.9	6.6	8.2	7.2	4.3	3.9	4.7	+0.7	Hispanic	13.9	11.1	9.8	12.0	12.6	13.2	11.5	9.1	9.3	10.6	9.4	8.0	7.9	8.1	8.8	7.4	5.6	5.4	5.8	+0.4																																																																																																																														
Northeast	5.5	9.8	8.2	9.6	8.9	10.1	10.2	9.8	8.0	7.5	10.7	6.9	6.1	7.4	5.9	7.5	9.4	6.1	6.0	-0.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Midwest	7.0	9.2	9.7	7.3	7.0	10.8	8.9	12.0	8.8	6.4	6.6	7.3	6.0	8.1	7.8	6.1	5.0	4.6	6.9	+2.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
South	11.5	8.7	9.7	10.5	8.8	5.9	10.9	9.6	6.7	8.6	6.6	8.3	5.7	8.4	4.9	7.3	4.6	6.1	3.9	-2.2 s																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
West	10.4	4.8	9.7	10.2	5.6	10.1	8.4	8.4	5.0	7.1	5.7	5.1	5.5	4.6	6.7	4.3	2.5	4.9	5.0	+0.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Population Density:																					Large MSA	11.1	8.8	10.8	12.1	7.5	11.1	10.6	9.6	6.8	7.2	7.0	6.4	5.3	6.3	4.8	7.1	4.9	6.8	6.3	-0.4	Other MSA	7.5	8.3	9.5	8.7	6.5	8.1	8.2	9.9	6.3	7.0	7.4	6.6	6.4	6.7	6.6	6.5	4.0	3.8	4.0	+0.2	Non-MSA	9.1	8.2	7.8	7.9	9.7	7.4	11.3	10.7	8.9	8.9	7.1	9.1	5.3	9.4	7.2	4.9	7.2	6.8	7.0	+0.2	Parental Education: <sup>a</sup>																					1.0–2.0 (Low)	11.7	9.6	6.8	13.2	8.3	16.8	14.1	14.6	9.3	11.9	8.3	12.0	8.8	9.1	9.7	7.5	8.4	4.9	8.3	+3.4	2.5–3.0	9.5	11.4	9.8	11.0	9.2	8.8	12.6	9.9	9.4	9.5	9.9	8.2	8.1	8.0	5.4	8.5	7.9	6.7	4.9	-1.8	3.5–4.0	8.5	6.8	10.6	9.9	7.7	8.8	7.3	9.9	6.1	9.1	6.2	7.4	5.6	6.8	8.6	5.6	4.0	5.0	6.6	+1.6	4.5–5.0	9.2	7.2	8.6	7.7	7.2	8.6	10.7	10.7	5.9	4.2	6.8	7.4	4.7	5.5	4.2	5.3	3.4	5.7	4.3	-1.4	5.5–6.0 (High)	7.5	7.7	9.5	7.9	5.8	7.0	6.1	8.0	5.9	5.5	5.2	3.4	4.1	8.3	3.8	5.2	3.5	3.0	4.6	+1.6	Race/Ethnicity (2-year average): <sup>b</sup>																					White	8.6	8.1	8.7	8.8	7.6	7.6	8.9	10.2	8.4	6.4	6.9	7.5	6.4	5.4	5.5	6.1	6.1	5.3	5.4	+0.1	African American	7.5	10.4	10.0	9.2	6.9	4.2	9.6	10.0	7.8	11.7	10.5	4.6	4.9	6.6	8.2	7.2	4.3	3.9	4.7	+0.7	Hispanic	13.9	11.1	9.8	12.0	12.6	13.2	11.5	9.1	9.3	10.6	9.4	8.0	7.9	8.1	8.8	7.4	5.6	5.4	5.8	+0.4																																																																																																																																																																																																																																							
Large MSA	11.1	8.8	10.8	12.1	7.5	11.1	10.6	9.6	6.8	7.2	7.0	6.4	5.3	6.3	4.8	7.1	4.9	6.8	6.3	-0.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Other MSA	7.5	8.3	9.5	8.7	6.5	8.1	8.2	9.9	6.3	7.0	7.4	6.6	6.4	6.7	6.6	6.5	4.0	3.8	4.0	+0.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Non-MSA	9.1	8.2	7.8	7.9	9.7	7.4	11.3	10.7	8.9	8.9	7.1	9.1	5.3	9.4	7.2	4.9	7.2	6.8	7.0	+0.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Parental Education: <sup>a</sup>																					1.0–2.0 (Low)	11.7	9.6	6.8	13.2	8.3	16.8	14.1	14.6	9.3	11.9	8.3	12.0	8.8	9.1	9.7	7.5	8.4	4.9	8.3	+3.4	2.5–3.0	9.5	11.4	9.8	11.0	9.2	8.8	12.6	9.9	9.4	9.5	9.9	8.2	8.1	8.0	5.4	8.5	7.9	6.7	4.9	-1.8	3.5–4.0	8.5	6.8	10.6	9.9	7.7	8.8	7.3	9.9	6.1	9.1	6.2	7.4	5.6	6.8	8.6	5.6	4.0	5.0	6.6	+1.6	4.5–5.0	9.2	7.2	8.6	7.7	7.2	8.6	10.7	10.7	5.9	4.2	6.8	7.4	4.7	5.5	4.2	5.3	3.4	5.7	4.3	-1.4	5.5–6.0 (High)	7.5	7.7	9.5	7.9	5.8	7.0	6.1	8.0	5.9	5.5	5.2	3.4	4.1	8.3	3.8	5.2	3.5	3.0	4.6	+1.6	Race/Ethnicity (2-year average): <sup>b</sup>																					White	8.6	8.1	8.7	8.8	7.6	7.6	8.9	10.2	8.4	6.4	6.9	7.5	6.4	5.4	5.5	6.1	6.1	5.3	5.4	+0.1	African American	7.5	10.4	10.0	9.2	6.9	4.2	9.6	10.0	7.8	11.7	10.5	4.6	4.9	6.6	8.2	7.2	4.3	3.9	4.7	+0.7	Hispanic	13.9	11.1	9.8	12.0	12.6	13.2	11.5	9.1	9.3	10.6	9.4	8.0	7.9	8.1	8.8	7.4	5.6	5.4	5.8	+0.4																																																																																																																																																																																																																																																																																																																											
1.0–2.0 (Low)	11.7	9.6	6.8	13.2	8.3	16.8	14.1	14.6	9.3	11.9	8.3	12.0	8.8	9.1	9.7	7.5	8.4	4.9	8.3	+3.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
2.5–3.0	9.5	11.4	9.8	11.0	9.2	8.8	12.6	9.9	9.4	9.5	9.9	8.2	8.1	8.0	5.4	8.5	7.9	6.7	4.9	-1.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
3.5–4.0	8.5	6.8	10.6	9.9	7.7	8.8	7.3	9.9	6.1	9.1	6.2	7.4	5.6	6.8	8.6	5.6	4.0	5.0	6.6	+1.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
4.5–5.0	9.2	7.2	8.6	7.7	7.2	8.6	10.7	10.7	5.9	4.2	6.8	7.4	4.7	5.5	4.2	5.3	3.4	5.7	4.3	-1.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
5.5–6.0 (High)	7.5	7.7	9.5	7.9	5.8	7.0	6.1	8.0	5.9	5.5	5.2	3.4	4.1	8.3	3.8	5.2	3.5	3.0	4.6	+1.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Race/Ethnicity (2-year average): <sup>b</sup>																					White	8.6	8.1	8.7	8.8	7.6	7.6	8.9	10.2	8.4	6.4	6.9	7.5	6.4	5.4	5.5	6.1	6.1	5.3	5.4	+0.1	African American	7.5	10.4	10.0	9.2	6.9	4.2	9.6	10.0	7.8	11.7	10.5	4.6	4.9	6.6	8.2	7.2	4.3	3.9	4.7	+0.7	Hispanic	13.9	11.1	9.8	12.0	12.6	13.2	11.5	9.1	9.3	10.6	9.4	8.0	7.9	8.1	8.8	7.4	5.6	5.4	5.8	+0.4																																																																																																																																																																																																																																																																																																																																																																																																																																																									
White	8.6	8.1	8.7	8.8	7.6	7.6	8.9	10.2	8.4	6.4	6.9	7.5	6.4	5.4	5.5	6.1	6.1	5.3	5.4	+0.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
African American	7.5	10.4	10.0	9.2	6.9	4.2	9.6	10.0	7.8	11.7	10.5	4.6	4.9	6.6	8.2	7.2	4.3	3.9	4.7	+0.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Hispanic	13.9	11.1	9.8	12.0	12.6	13.2	11.5	9.1	9.3	10.6	9.4	8.0	7.9	8.1	8.8	7.4	5.6	5.4	5.8	+0.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

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

**Notes.** Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of five forms in 1988; *N* is one fifth of *N* indicated in Table S3. Data based on one of six forms beginning in 1989; *N* is one sixth of *N* indicated in Table S3.

**Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.**

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 107**  
**FLAVORED ALCOHOLIC BEVERAGES:**  
**Trends in 30-Day Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 30 days											2012– 2013 change
	1991– 2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	—	14.6	12.9	13.1	12.2	10.2	9.5	9.4	8.6	7.6	6.3	-1.3 s
Gender:												
Male	—	12.7	11.4	10.8	10.4	9.2	9.1	8.3	8.3	6.1	5.8	-0.3
Female	—	16.3	14.4	15.3	13.4	10.9	9.7	10.3	8.6	9.1	6.7	-2.5 ss
College Plans:												
None or under 4 years	—	28.1	24.9	25.9	23.8	24.0	18.3	19.6	14.4	19.9	14.3	-5.7
Complete 4 years	—	13.3	11.8	11.8	11.1	9.0	8.7	8.6	8.3	6.7	5.8	-0.9
Region:												
Northeast	—	14.9	11.0	12.2	9.7	9.2	8.8	9.2	5.4	7.2	4.7	-2.6
Midwest	—	16.2	12.6	12.9	12.0	10.5	9.1	8.2	7.8	5.2	6.3	+1.1
South	—	15.1	14.6	14.3	14.0	12.6	11.8	11.3	9.6	9.2	7.4	-1.8
West	—	11.7	11.9	12.0	10.9	7.2	6.7	7.6	10.4	7.6	5.9	-1.7
Population Density:												
Large MSA	—	14.4	11.5	12.6	10.6	11.1	7.2	8.5	6.4	6.8	5.7	-1.1
Other MSA	—	14.2	14.0	13.0	12.4	9.7	9.7	10.0	9.7	8.0	7.2	-0.8
Non-MSA	—	15.6	12.8	13.9	14.2	10.2	12.0	9.0	9.6	8.2	5.5	-2.6
Parental Education: <sup>a</sup>												
1.0–2.0 (Low)	—	19.5	19.5	18.7	21.1	19.3	14.7	11.2	12.7	11.7	12.3	+0.6
2.5–3.0	—	17.5	18.0	18.7	17.5	14.4	13.1	13.4	12.1	11.7	8.7	-2.9
3.5–4.0	—	17.8	16.2	13.4	12.3	11.7	11.4	10.5	10.3	7.8	7.9	+0.2
4.5–5.0	—	11.8	10.3	8.5	9.8	7.2	7.4	8.0	6.2	5.4	5.6	+0.1
5.5–6.0 (High)	—	11.5	7.3	9.9	7.1	6.5	4.7	4.9	6.2	4.7	2.8	-1.9
Race/Ethnicity (2-year average): <sup>b</sup>												
White	—	—	13.8	12.6	12.1	11.1	9.8	9.0	8.5	7.4	6.4	-1.0
African American	—	—	12.0	11.0	10.1	9.2	8.5	8.0	7.7	8.8	7.3	-1.6
Hispanic	—	—	17.0	17.6	16.7	13.9	11.8	11.7	11.4	10.8	9.1	-1.7

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

*Notes.* Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; *N* is one third of *N* indicated in Table S1. In 2011 Skyy Blue and Zima were deleted from the list of examples.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 108**  
**FLAVORED ALCOHOLIC BEVERAGES:**  
**Trends in 30-Day Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 30 days											2012– 2013 change
	1991– 2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	—	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	—	25.1	23.1	24.7	21.8	20.2	19.0	19.4	15.8	16.3	15.5	-0.7
Gender												
Male	—	24.5	20.3	22.4	18.8	17.0	17.0	18.8	13.8	13.5	13.7	+0.1
Female	—	25.6	25.8	26.9	24.7	22.9	20.9	19.8	17.7	18.5	16.7	-1.8
College Plans:												
None or under 4 years	—	32.5	33.8	37.2	32.0	29.1	30.0	28.6	25.7	21.0	19.1	-1.9
Complete 4 years	—	24.2	21.7	23.1	20.6	19.1	17.8	18.4	14.7	15.8	15.0	-0.8
Region:												
Northeast	—	26.6	22.4	26.3	23.2	22.2	18.6	18.3	17.5	19.4	15.6	-3.7
Midwest	—	22.5	23.4	23.5	21.2	20.0	17.6	19.1	14.3	14.5	13.9	-0.6
South	—	25.6	23.7	24.5	20.0	20.3	21.1	19.6	16.6	17.4	17.2	-0.2
West	—	26.5	22.5	25.4	23.6	19.0	17.9	20.3	15.1	14.0	15.0	+0.9
Population Density:												
Large MSA	—	22.4	22.0	23.1	21.5	19.0	17.6	20.2	15.3	17.4	13.8	-3.6 s
Other MSA	—	26.1	23.1	25.5	21.4	20.9	19.6	19.0	15.8	16.2	16.4	+0.2
Non-MSA	—	26.5	24.4	25.5	23.0	20.5	19.7	18.9	16.5	14.7	15.7	+0.9
Parental Education: <sup>a</sup>												
1.0–2.0 (Low)	—	27.3	24.9	25.8	25.5	21.8	23.5	26.4	17.6	17.0	16.4	-0.6
2.5–3.0	—	30.5	28.1	27.9	25.8	23.4	23.3	24.5	19.2	17.3	19.9	+2.5
3.5–4.0	—	25.0	23.6	28.5	23.1	21.2	18.8	20.2	17.5	15.6	16.3	+0.7
4.5–5.0	—	24.9	22.6	19.9	19.7	19.0	18.2	15.7	13.6	16.7	14.6	-2.1
5.5–6.0 (High)	—	20.8	17.3	23.7	16.9	16.2	14.3	15.4	12.3	17.5	10.5	-7.0 sss
Race/Ethnicity (2-year average): <sup>b</sup>												
White	—	—	25.7	25.1	24.0	21.8	20.0	19.0	17.4	16.5	16.5	0.0
African American	—	—	16.1	15.5	15.9	15.2	14.2	14.8	14.0	10.7	9.6	-1.1
Hispanic	—	—	29.0	28.6	26.1	23.1	23.0	24.2	22.6	17.7	16.7	-1.0

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

**Notes.** Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of four forms; N is one third of N indicated in Table S2. In 2011 Sky Blue and Zima were deleted from the list of examples.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 109**  
**FLAVORED ALCOHOLIC BEVERAGES:**  
**Trends in 30-Day Prevalence of Use by Subgroups in Grade 12**

		Percentage who used in last 30 days											
		1991– 2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2012– 2013 change
Approximate weighted N =		—	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
Total		—	31.1	30.5	29.3	29.1	27.4	27.4	24.1	23.1	21.8	21.0	-0.7
Gender:													
Male		—	28.9	28.3	26.0	25.4	25.8	27.3	22.6	21.8	19.9	20.1	+0.2
Female		—	33.2	33.2	32.3	32.8	29.0	27.1	25.0	24.6	23.3	22.0	-1.4
College Plans:													
None or under 4 years		—	34.7	34.2	32.9	37.0	29.0	35.6	26.8	26.2	22.6	25.8	+3.2
Complete 4 years		—	30.3	29.6	28.7	27.5	26.9	25.9	23.9	22.4	21.5	19.9	-1.7
Region:													
Northeast		—	33.5	38.1	29.4	36.0	33.5	34.0	31.3	25.7	20.6	23.6	+3.0
Midwest		—	35.3	33.4	32.2	28.5	25.8	26.7	23.7	23.1	22.4	18.3	-4.1
South		—	25.9	25.9	27.0	28.8	26.9	27.2	23.3	22.1	19.3	19.9	+0.6
West		—	32.1	27.9	29.9	24.9	25.8	23.2	20.9	22.9	24.8	23.9	-0.9
Population Density:													
Large MSA		—	27.0	29.9	32.3	30.8	28.7	27.0	26.4	25.3	22.5	23.4	+0.9
Other MSA		—	33.4	29.9	27.7	27.8	25.8	28.8	23.8	23.8	22.2	20.0	-2.2
Non-MSA		—	30.9	32.2	28.5	29.5	29.1	24.7	21.8	18.6	19.5	20.1	+0.7
Parental Education: <sup>a</sup>													
1.0–2.0 (Low)		—	28.5	22.2	30.3	34.0	24.9	26.8	13.8	24.8	19.7	21.8	+2.1
2.5–3.0		—	31.0	33.3	30.6	32.4	28.3	28.2	27.8	26.1	24.0	24.8	+0.8
3.5–4.0		—	33.6	31.7	30.9	29.9	28.4	28.7	24.0	25.3	22.9	20.7	-2.2
4.5–5.0		—	29.4	30.2	28.8	27.6	27.6	24.4	26.1	20.0	21.7	20.0	-1.7
5.5–6.0 (High)		—	29.8	30.2	26.4	25.3	26.6	28.4	23.4	20.5	19.7	19.1	-0.6
Race/Ethnicity (2-year average): <sup>b</sup>													
White		—	—	33.3	31.4	30.6	31.1	29.9	27.0	24.6	22.9	22.2	-0.7
African American		—	—	17.1	20.9	21.6	19.8	19.3	20.0	20.0	17.2	14.2	-3.0
Hispanic		—	—	28.6	32.2	34.5	26.2	25.2	24.7	25.5	26.8	21.9	-4.9

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms;  $N$  is one sixth of  $N$  indicated in Table S3. In 2011 Sky Blue and Zima were deleted from the list of examples.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 110**  
**ALCOHOLIC BEVERAGES CONTAINING CAFFEINE:**  
**Trends in Annual Prevalence of Use by Subgroups in Grades 8, 10, and 12**

Percentage who used in last 12 months

	8th Graders					10th Graders					12th Graders				
	1991– 2010	2011	2012	2013	2012– 2013 change	1991– 2010	2011	2012	2013	2012– 2013 change	1975– 2010	2011	2012	2013	2012– 2013 change
<i>Approximate weighted N =</i>	—	16,000	15,100	14,600		—	14,900	15,000	12,900		—	14,100	13,700	12,600	
Total	—	11.8‡	10.9	10.2	-0.7	—	22.5‡	19.7	16.9	-2.8 s	—	26.4‡	26.4	23.5	-2.8 s
Gender:															
Male	—	9.4‡	9.6	8.4	-1.2	—	20.4‡	19.7	17.0	-2.7	—	26.6‡	28.8	26.9	-2.0
Female	—	13.8‡	11.9	11.7	-0.2	—	24.7‡	19.8	16.7	-3.1 s	—	25.9‡	23.7	20.1	-3.6 s
College Plans:															
None or under 4 years	—	22.3‡	19.1	21.6	+2.5	—	34.1‡	29.9	26.7	-3.2	—	29.4‡	28.7	29.7	+1.0
Complete 4 years	—	11.0‡	10.2	9.4	-0.7	—	21.2‡	18.7	15.9	-2.8 ss	—	25.6‡	25.3	22.0	-3.3 s
Region:															
Northeast	—	10.4‡	8.7	11.5	+2.7	—	26.4‡	19.9	18.4	-1.4	—	29.7‡	28.7	23.6	-5.1
Midwest	—	10.3‡	8.6	8.7	+0.1	—	17.4‡	18.5	15.5	-3.0	—	26.6‡	30.2	23.1	-7.1 s
South	—	12.9‡	12.4	11.4	-1.0	—	22.9‡	19.5	16.6	-2.9	—	23.8‡	21.9	22.3	+0.5
West	—	12.5‡	12.3	9.1	-3.2	—	24.7‡	21.1	17.7	-3.4	—	27.8‡	26.4	25.6	-0.8
Population Density:															
Large MSA	—	9.8‡	10.6	9.6	-1.0	—	21.7‡	17.4	14.0	-3.4	—	27.9‡	27.7	25.2	-2.5
Other MSA	—	13.4‡	10.9	10.5	-0.4	—	23.2‡	20.1	18.2	-1.9	—	27.4‡	27.0	24.2	-2.8
Non-MSA	—	11.4‡	11.3	10.5	-0.8	—	22.1‡	21.8	17.9	-4.0	—	21.9‡	22.6	19.3	-3.3
Parental Education: <sup>a</sup>															
1.0–2.0 (Low)	—	19.0‡	13.8	13.4	-0.4	—	33.8‡	23.7	21.7	-2.0	—	26.5‡	20.3	22.4	+2.1
2.5–3.0	—	17.3‡	14.4	11.1	-3.2	—	25.6‡	23.2	20.9	-2.3	—	28.1‡	25.9	23.1	-2.8
3.5–4.0	—	13.8‡	13.3	13.1	-0.2	—	25.5‡	22.8	19.7	-3.1	—	27.0‡	30.3	25.3	-5.0 s
4.5–5.0	—	8.3‡	8.9	8.2	-0.7	—	17.1‡	18.8	13.4	-5.4 ss	—	24.7‡	26.8	22.8	-3.9
5.5–6.0 (High)	—	7.0‡	6.9	8.8	+1.9	—	17.0‡	12.4	12.7	+0.3	—	26.3‡	24.2	22.3	-1.9
Race/Ethnicity (2-year average): <sup>b</sup>															
White	—	—	—	9.0	—	—	—	—	19.3	—	—	—	—	28.1	—
African American	—	—	—	7.3	—	—	—	—	10.4	—	—	—	—	11.5	—
Hispanic	—	—	—	14.5	—	—	—	—	20.3	—	—	—	—	23.0	—

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

*Notes.* '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.

'‡' indicates some change in the question. See relevant footnote for that drug. See relevant figure to assess the impact of the wording changes.

See Tables S1 through S3 for the number of subgroup cases. See appendix B for definition of variables in table. For all grades: In 2012 the question text was changed from "...had an alcoholic beverage containing caffeine (like Four Loko or Joose)" to "...had an alcoholic beverage mixed with an energy drink (like Red Bull)."

The data in 2011 and 2012 are not comparable due to this question change. Data for 8th and 10th graders based on one of four forms; *N* is one third of *N* indicated in Tables S1 and S2. Data for 12th graders based on two of six forms; *N* is two sixths of *N* indicated in Table S3.

**Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.**

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes

and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 111**  
**CIGARETTES: Trends in 30-Day Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 30 days																							2012– 2013 change	
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>		
<i>Approximate weighted N =</i>	<i>17,500</i>	<i>18,600</i>	<i>18,300</i>	<i>17,300</i>	<i>17,500</i>	<i>17,800</i>	<i>18,600</i>	<i>18,100</i>	<i>16,700</i>	<i>16,700</i>	<i>16,200</i>	<i>15,100</i>	<i>16,500</i>	<i>17,000</i>	<i>16,800</i>	<i>16,500</i>	<i>16,100</i>	<i>15,700</i>	<i>15,000</i>	<i>15,300</i>	<i>16,000</i>	<i>15,100</i>	<i>14,600</i>		
Total	14.3	15.5	16.7	18.6	19.1	21.0	19.4	19.1	17.5	14.6	12.2	10.7	10.2	9.2	9.3	8.7	7.1	6.8	6.5	7.1	6.1	4.9	4.5	-0.5	
Gender:																									
Male	15.5	14.9	17.2	19.3	18.8	20.6	19.1	18.0	16.7	14.3	12.2	11.0	9.6	8.3	8.7	8.1	7.5	6.7	6.7	7.4	6.2	4.6	4.0	-0.6	
Female	13.1	15.9	16.3	17.9	19.0	21.1	19.5	19.8	17.7	14.7	12.0	10.4	10.6	9.9	9.7	8.9	6.4	6.7	6.0	6.8	5.7	4.9	4.7	-0.2	
College Plans:																									
None or under 4 years	29.2	31.9	34.1	36.6	36.5	39.2	40.0	40.1	40.3	34.7	30.0	29.3	27.8	25.6	26.7	23.2	23.9	21.1	19.5	22.8	18.2	17.3	15.0	-2.3	
Complete 4 years	11.8	13.1	14.3	16.1	16.8	18.2	16.9	16.5	14.5	12.2	10.0	8.9	8.3	7.4	7.4	7.1	5.4	5.5	5.3	5.7	5.1	3.9	3.8	-0.2	
Region:																									
Northeast	13.7	14.4	15.0	17.8	18.6	22.1	18.0	15.6	15.7	13.7	11.4	9.1	7.7	7.2	7.8	6.7	3.7	5.9	5.6	6.0	4.4	4.2	3.5	-0.7	
Midwest	15.5	16.5	16.3	18.5	20.9	23.2	20.0	22.3	21.3	17.1	12.0	11.0	12.2	10.8	9.5	9.3	7.8	8.1	7.0	8.6	6.4	3.9	4.4	+0.5	
South	15.7	17.0	18.2	19.5	19.4	21.1	21.0	21.1	18.7	14.7	14.3	13.0	11.7	10.3	11.6	10.9	8.6	7.7	7.7	8.5	6.8	6.9	5.8	-1.1	
West	10.0	12.2	16.4	18.0	16.5	17.1	17.1	15.1	12.1	12.2	9.3	7.5	7.0	7.4	6.3	5.7	5.8	5.2	4.6	4.0	6.1	3.0	3.0	0.0	
Population Density:																									
Large MSA	12.8	15.0	14.1	15.5	16.5	19.4	15.8	16.4	12.7	12.1	9.3	7.5	7.7	7.7	6.7	6.4	4.7	5.2	4.2	4.8	4.0	3.6	2.5	-1.1	
Other MSA	14.9	15.3	17.8	20.7	19.4	21.4	19.7	17.7	16.0	13.1	11.6	10.6	9.8	8.9	9.8	8.8	7.6	7.5	6.9	7.6	7.0	5.1	4.3	-0.8	
Non-MSA	14.8	16.4	17.9	17.8	21.5	22.1	22.8	24.8	26.1	21.1	16.9	14.9	14.4	11.6	11.8	11.6	9.5	7.9	8.5	9.2	7.7	6.9	8.0	+1.2	
Parental Education: <sup>a</sup>																									
1.0–2.0 (Low)	26.2	24.1	23.3	26.1	25.3	26.5	26.9	26.7	26.6	22.0	20.3	20.3	17.5	15.8	16.6	14.7	13.8	12.1	10.5	11.4	9.2	7.6	6.3	-1.3	
2.5–3.0	16.4	16.9	19.8	20.6	22.7	24.4	22.4	23.9	23.5	19.6	16.4	14.5	14.8	12.2	13.4	12.5	10.2	8.7	8.8	10.2	9.8	7.4	6.5	-0.8	
3.5–4.0	13.9	14.9	17.4	20.1	20.8	21.4	20.9	21.4	17.0	14.7	12.6	10.5	9.6	9.6	10.5	8.8	7.8	7.3	7.1	8.0	6.3	5.7	5.6	-0.1	
4.5–5.0	10.1	13.3	12.5	14.9	14.9	18.4	16.2	14.2	12.3	10.2	8.3	7.8	6.7	6.7	5.9	5.5	3.9	4.7	4.4	4.9	3.9	3.0	2.4	-0.6	
5.5–6.0 (High)	11.3	11.5	13.3	15.1	14.5	17.3	15.3	13.8	12.2	9.8	6.9	5.8	6.0	5.2	4.3	4.8	2.4	4.1	3.5	2.9	3.1	2.6	2.9	+0.2	
Race/Ethnicity (2-year average): <sup>b</sup>																									
White	—	16.2	17.8	18.9	20.7	22.7	22.8	21.5	20.1	17.7	14.7	12.0	10.9	10.0	9.4	9.3	8.1	7.2	7.3	7.6	7.2	5.8	4.7	-1.1	
African American	—	5.3	6.6	8.7	8.9	9.6	10.9	10.6	10.7	9.6	8.2	7.7	6.9	6.9	7.1	6.0	5.1	4.6	4.4	4.3	4.1	4.0	3.5	-0.5	
Hispanic	—	16.7	18.3	21.3	21.6	19.6	19.1	20.1	20.5	16.6	13.0	12.8	11.9	10.1	9.0	8.8	8.0	7.0	6.5	6.7	6.9	5.5	4.0	-1.5	

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

Notes. Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 112**  
**CIGARETTES: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 30 days																						2012– 2013 change	
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>		<u>2013</u>
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	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	-1.7 s
Gender:																								
Male	20.8	20.6	24.6	26.6	27.7	30.1	28.2	26.2	25.2	23.8	20.9	16.7	16.2	16.2	14.5	13.4	14.6	12.7	13.7	15.0	13.4	12.0	10.5	-1.5
Female	20.7	22.2	24.5	23.9	27.9	30.8	31.1	29.1	25.8	23.6	21.5	18.6	17.0	15.7	15.1	15.5	13.3	11.9	12.5	12.1	10.0	9.6	7.5	-2.1 s
College Plans:																								
None or under 4 years	36.5	35.0	41.9	42.2	46.3	46.2	47.2	45.2	44.0	38.6	38.1	33.3	33.0	33.1	29.4	32.7	30.1	30.1	29.0	32.5	28.5	27.6	23.3	-4.2
Complete 4 years	17.3	18.6	21.0	21.7	24.7	27.8	26.8	24.5	22.7	21.5	18.5	15.1	14.0	13.6	12.9	12.1	11.8	10.0	11.3	11.3	9.9	9.0	7.4	-1.6 s
Region:																								
Northeast	22.4	21.9	27.1	24.5	27.8	31.7	29.3	30.1	28.0	23.9	18.1	15.9	16.6	16.6	14.9	11.8	13.1	10.1	11.1	12.1	12.2	10.9	7.2	-3.7 s
Midwest	22.9	24.3	26.0	28.8	30.1	32.5	31.7	29.5	30.2	27.1	24.2	19.2	18.4	14.6	16.2	18.1	17.1	14.5	12.9	14.5	11.8	9.7	9.3	-0.4
South	21.2	19.8	24.0	25.7	30.8	33.4	32.2	29.8	26.3	25.5	23.5	19.6	18.2	20.4	16.4	15.6	14.4	14.0	16.7	15.4	13.8	13.6	11.8	-1.8
West	16.7	20.2	21.2	20.1	19.6	20.8	23.2	19.6	17.5	16.8	15.0	14.1	12.5	10.9	10.9	10.9	11.1	9.6	10.1	11.1	8.5	7.6	6.9	-0.7
Population Density:																								
Large MSA	19.7	21.6	22.5	22.3	23.3	26.2	26.6	22.5	22.9	23.1	17.3	14.2	13.1	12.0	11.7	11.5	12.1	10.3	11.4	11.1	9.5	8.4	5.8	-2.6 s
Other MSA	20.3	20.3	23.8	26.3	28.9	31.1	28.9	26.6	25.0	21.3	20.5	17.6	16.6	16.6	14.7	13.3	13.9	12.3	13.0	13.5	11.5	10.2	9.5	-0.8
Non-MSA	22.7	23.7	28.2	26.7	31.3	33.9	34.9	35.7	30.4	29.4	27.6	22.6	22.4	20.4	19.8	22.4	17.2	15.4	16.1	17.5	15.7	15.4	13.0	-2.4
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	23.5	28.4	29.5	26.4	30.9	28.7	28.2	28.0	30.5	29.3	22.5	21.4	23.4	19.3	16.4	20.4	17.5	15.7	18.2	18.8	14.6	15.4	12.8	-2.6
2.5–3.0	24.1	23.3	28.0	29.1	33.2	33.8	33.2	33.0	29.6	26.8	25.7	22.4	21.2	19.9	19.7	19.7	18.4	15.8	16.5	18.6	16.2	14.4	13.6	-0.8
3.5–4.0	20.4	20.6	24.8	26.0	27.8	31.6	30.9	27.3	26.0	25.3	21.1	17.4	16.2	17.8	15.7	15.5	14.7	13.9	13.8	15.1	12.7	11.2	10.2	-1.0
4.5–5.0	18.5	19.5	20.1	22.6	25.9	28.7	28.5	25.7	22.4	21.2	18.9	15.1	13.4	12.6	12.5	10.8	11.3	9.6	10.9	10.0	8.6	9.6	6.0	-3.6 sss
5.5–6.0 (High)	18.5	18.9	21.4	20.7	21.8	27.8	24.6	22.5	21.4	19.1	17.1	12.7	11.6	10.8	10.8	10.0	9.7	7.8	8.9	7.7	8.0	7.1	4.9	-2.2 s
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	24.1	26.0	27.8	29.7	32.9	34.4	33.2	30.8	28.2	25.7	22.4	20.0	18.7	17.6	16.6	16.2	15.1	14.4	14.7	14.3	12.9	11.4	-1.5
African American	—	6.6	7.5	9.8	11.5	12.2	12.8	13.7	12.5	11.1	11.1	9.8	8.9	9.2	8.7	8.0	7.1	6.5	6.8	6.7	7.1	6.7	5.3	-1.4
Hispanic	—	18.3	20.5	19.4	21.4	23.7	23.0	21.3	21.1	19.6	16.8	14.3	13.2	13.9	13.5	12.1	10.5	11.1	12.1	12.2	10.5	8.3	8.3	0.0

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

*Notes.* Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 113**  
**CIGARETTES**  
**Trends in 30-Day Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 30 days																				→ (Years cont.)
<i>Approximate weighted N =</i>	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	
Total	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
	36.7	38.8	38.4	36.7	34.4	30.5	29.4	30.0	30.3	29.3	30.1	29.6	29.4	28.7	28.6	29.4	28.3	27.8	29.9	31.2	
<b>Gender</b>																					
Male																					
	37.2	37.7	36.6	34.5	31.2	26.8	26.5	26.8	28.0	25.9	28.2	27.9	27.0	28.0	27.7	29.1	29.0	29.2	30.7	32.9	
Female																					
	35.9	39.1	39.6	38.1	37.1	33.4	31.6	32.6	31.6	31.9	31.4	30.6	31.4	28.9	29.0	29.2	27.5	26.1	28.7	29.2	
<b>College Plans</b>																					
None or under 4 years	—	46.3	46.2	44.6	43.0	39.6	38.1	38.7	38.0	37.9	40.5	38.5	39.7	37.5	38.0	37.5	38.1	38.6	37.3	40.9	
Complete 4 years	—	29.8	29.4	27.4	26.0	22.3	22.3	22.1	23.3	22.7	22.8	24.0	24.3	24.4	24.1	25.4	24.2	23.8	27.3	28.0	
<b>Region</b>																					
Northeast																					
	40.1	41.8	43.0	40.6	37.0	34.1	31.5	32.1	34.6	33.5	34.2	35.2	34.1	31.2	29.4	31.9	30.5	29.6	34.2	33.2	
Midwest																					
	39.5	41.3	40.5	39.0	36.6	31.5	32.4	33.5	33.2	31.4	34.1	32.5	31.7	31.1	34.9	34.0	34.6	31.7	33.2	36.2	
South																					
	36.2	39.1	37.6	35.7	35.4	31.8	28.9	29.4	28.7	28.6	25.6	26.1	26.0	28.0	26.4	26.1	25.4	26.4	29.0	30.7	
West																					
	26.3	28.3	27.7	27.3	24.8	21.2	21.8	20.4	21.8	22.9	26.3	23.3	26.6	23.9	22.7	25.1	23.2	22.8	22.9	24.0	
<b>Population Density</b>																					
Large MSA																					
	39.7	40.4	40.9	37.5	33.4	31.2	30.6	32.1	30.8	31.3	31.9	30.8	29.3	26.9	25.9	27.9	26.2	25.6	29.5	29.0	
Other MSA																					
	35.1	35.9	36.1	34.3	33.5	29.7	27.4	27.8	29.1	28.2	28.5	28.0	28.2	28.3	28.2	29.6	29.3	26.9	29.8	31.1	
Non-MSA																					
	36.7	40.9	39.2	39.4	36.4	30.9	30.9	31.2	31.5	29.3	30.8	31.0	31.8	31.4	32.2	30.4	28.6	31.5	30.3	33.8	
<b>Parental Education <sup>a</sup></b>																					
1.0–2.0 (Low)																					
	37.2	43.2	39.6	38.1	38.1	32.7	32.5	32.6	32.7	33.6	32.3	28.6	28.8	28.1	25.4	26.3	31.3	27.1	26.5	26.2	
2.5–3.0																					
	37.0	41.2	40.8	39.3	35.9	34.2	31.7	32.0	32.2	31.8	32.3	32.3	31.4	29.9	30.8	30.8	28.7	30.3	30.4	32.8	
3.5–4.0																					
	31.9	35.3	37.3	34.0	33.3	28.0	28.2	29.0	28.0	28.1	29.7	29.7	28.8	27.8	29.4	29.3	28.4	27.8	29.9	31.4	
4.5–5.0																					
	32.3	35.0	33.0	32.6	30.1	25.7	26.0	25.5	27.8	25.2	27.7	26.4	27.6	28.6	27.0	29.1	26.9	25.8	30.1	32.0	
5.5–6.0 (High)																					
	26.8	30.8	32.8	31.9	29.6	24.0	22.5	25.1	25.5	23.7	22.6	26.7	29.3	27.8	26.3	28.6	27.1	25.5	30.5	30.4	
<b>Race/Ethnicity (2-year average) <sup>b</sup></b>																					
White																					
	—	—	38.3	37.6	36.0	33.0	30.5	30.7	31.3	31.2	31.3	31.9	32.1	32.2	32.2	32.3	32.2	31.8	33.2	35.2	
African American																					
	—	—	36.7	32.7	30.2	26.8	23.7	21.8	21.2	19.3	18.1	16.9	14.2	13.3	12.6	12.2	10.6	8.7	9.5	10.9	
Hispanic																					
	—	—	35.7	32.8	26.8	22.6	23.2	24.7	24.7	25.3	25.5	23.7	22.7	21.9	20.6	21.7	24.0	25.0	24.2	23.6	

(Table continued on next page.)



**TABLE 113 (cont.)**  
**CIGARETTES: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 30 days																			2012– 2013 change	
	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>		
<i>Approximate weighted N =</i>	<i>15,400</i>	<i>14,300</i>	<i>15,400</i>	<i>15,200</i>	<i>13,600</i>	<i>12,800</i>	<i>12,800</i>	<i>12,900</i>	<i>14,600</i>	<i>14,600</i>	<i>14,700</i>	<i>14,200</i>	<i>14,500</i>	<i>14,000</i>	<i>13,700</i>	<i>14,400</i>	<i>14,100</i>	<i>13,700</i>	<i>12,600</i>		
Total	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	-0.9	
Gender:																					
Male	34.5	34.9	37.3	36.3	35.4	32.8	29.7	27.4	26.2	25.3	24.8	22.4	23.1	21.5	22.1	21.9	21.5	19.3	18.4	-0.8	
Female	32.0	32.4	35.2	33.3	33.5	29.7	28.7	25.5	22.1	24.1	20.7	20.1	19.6	19.1	17.6	15.7	15.1	14.5	13.2	-1.4	
College Plans:																					
None or under 4 years	43.5	45.0	45.7	46.7	44.9	43.6	40.8	37.5	36.2	36.8	34.8	32.9	32.4	32.4	31.2	31.2	32.2	27.9	28.9	+1.1	
Complete 4 years	29.9	30.8	33.1	31.3	31.4	27.3	25.9	23.6	20.8	21.6	20.0	18.6	19.0	17.6	17.3	16.3	15.6	14.7	13.0	-1.7	
Region:																					
Northeast	34.4	38.5	40.6	35.9	34.2	33.1	30.3	27.3	25.0	25.9	22.0	23.1	23.8	19.7	18.9	18.2	17.8	18.8	17.0	-1.8	
Midwest	37.8	37.7	39.3	40.0	37.8	35.6	35.9	31.7	27.3	28.3	26.8	23.6	24.7	22.1	25.7	21.5	21.8	21.0	16.5	-4.5 s	
South	33.5	33.2	35.0	34.3	36.2	29.6	25.9	27.2	24.3	24.6	24.6	23.2	21.9	22.4	20.0	20.5	18.4	15.6	18.6	+2.9	
West	26.5	24.4	30.5	29.1	27.6	28.1	25.2	19.4	20.7	20.1	17.5	15.0	15.8	15.8	14.7	15.3	16.4	13.9	12.1	-1.8	
Population Density:																					
Large MSA	33.9	32.1	34.9	32.9	30.0	27.4	27.3	24.8	18.9	20.8	20.8	20.7	19.9	18.8	17.7	18.7	17.2	15.8	14.5	-1.3	
Other MSA	31.7	32.6	35.7	34.2	35.0	31.5	28.2	26.2	25.1	26.3	22.6	20.3	20.8	19.5	19.1	17.9	18.1	15.6	15.5	-0.1	
Non-MSA	36.2	38.2	40.0	39.7	38.7	36.3	34.3	30.1	30.4	27.6	27.4	25.3	25.9	24.3	25.5	23.1	22.3	23.1	20.9	-2.2	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	31.2	31.5	31.2	32.3	33.0	31.3	24.8	20.9	23.5	21.0	19.1	21.1	20.5	18.5	19.9	17.0	18.2	17.0	18.2	+1.2	
2.5–3.0	35.0	35.5	36.5	36.0	37.3	32.2	31.5	28.9	27.0	28.7	27.3	24.7	24.7	22.4	23.2	21.6	22.4	19.0	18.2	-0.8	
3.5–4.0	33.2	33.2	35.6	36.7	35.0	32.8	30.3	28.6	24.3	26.3	24.8	22.9	21.6	21.3	21.0	20.9	19.6	20.1	18.5	-1.6	
4.5–5.0	32.6	34.5	37.5	34.2	32.4	30.2	29.3	25.0	22.6	23.8	21.8	19.2	20.5	18.6	18.0	17.5	15.9	15.7	14.1	-1.5	
5.5–6.0 (High)	34.0	32.9	38.5	33.1	34.4	27.4	25.0	25.3	21.0	19.9	18.0	17.4	18.4	19.2	15.3	12.8	14.3	11.2	9.5	-1.7	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	36.6	38.1	40.7	41.7	40.1	37.9	35.3	32.5	29.4	28.2	27.6	25.9	24.9	24.7	23.9	22.9	22.2	21.2	19.4	-1.8	
African American	12.9	14.2	14.3	14.9	14.9	14.3	13.3	12.1	10.0	10.1	10.7	10.5	10.8	10.3	9.8	10.1	9.7	8.6	9.6	+1.0	
Hispanic	25.1	25.4	25.9	26.6	27.3	27.7	23.8	21.3	19.0	18.5	17.1	16.0	15.3	15.0	15.7	15.0	14.3	13.2	12.4	-0.8	

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

*Notes.* Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 114**  
**CIGARETTES: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 8**

	Percentage who used daily in last 30 days																						2012– 2013 change	
<i>Approximate weighted N =</i>	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Total	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	-0.1
Gender:																								
Male																								-0.3
Female																								+0.2
College Plans:																								
None or under 4 years																								+0.4
Complete 4 years																								0.0
Region:																								
Northeast																								-0.5
Midwest																								+0.2
South																								-0.3
West																								+0.4
Population Density:																								
Large MSA																								-0.5
Other MSA																								-0.2
Non-MSA																								+0.6
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)																								+0.1
2.5–3.0																								-0.3
3.5–4.0																								-0.2
4.5–5.0																								+0.1
5.5–6.0 (High)																								0.0
Race/Ethnicity (2-year average)> <sup>b</sup>																								
White																								-0.4
African American																								-0.1
Hispanic																								-0.4

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 115**  
**CIGARETTES: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 10**

	Percentage who used daily in last 30 days																							2012– 2013 change
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<i>Approximate weighted N =</i>	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	12.6	12.3	14.2	14.6	16.3	18.3	18.0	15.8	15.9	14.0	12.2	10.1	8.9	8.3	7.5	7.6	7.2	5.9	6.3	6.6	5.5	5.0	4.4	-0.5
Gender:																								
Male	12.4	12.1	13.8	15.2	16.3	18.1	17.2	14.7	15.6	13.7	12.4	9.4	8.6	8.2	7.2	6.9	7.7	6.2	6.9	7.2	6.4	5.6	5.4	-0.2
Female	12.5	12.4	14.3	13.7	16.1	18.6	18.5	16.8	15.9	14.1	11.9	10.8	9.0	8.2	7.7	8.1	6.6	5.5	5.6	5.9	4.5	4.4	3.4	-1.0
College Plans:																								
None or under 4 years	25.7	25.5	28.9	28.9	32.7	34.3	35.4	31.7	32.1	28.8	27.3	22.9	22.1	21.4	19.2	21.7	18.9	17.9	17.3	19.1	17.1	17.0	13.4	-3.6
Complete 4 years	9.6	9.5	11.0	11.5	13.3	15.5	15.0	12.9	13.2	11.6	9.6	7.9	6.7	6.4	5.9	5.6	5.6	4.3	5.0	5.0	4.2	3.7	3.4	-0.3
Region:																								
Northeast	14.3	13.1	16.3	14.1	15.8	18.8	18.0	18.7	17.7	14.1	11.0	8.3	8.6	8.5	7.6	6.2	6.8	5.3	5.3	5.7	6.3	5.1	3.6	-1.5
Midwest	14.3	14.3	15.1	16.9	17.6	20.6	19.5	17.3	19.6	16.3	13.2	11.5	10.2	7.4	8.6	10.3	10.0	7.6	5.8	7.3	5.7	4.4	4.9	+0.5
South	12.8	11.4	13.9	15.5	19.3	20.5	20.5	17.1	16.3	15.7	14.3	11.3	10.1	11.0	8.8	8.4	7.2	6.9	8.5	7.9	6.6	6.9	5.7	-1.3
West	9.1	10.7	10.9	9.7	9.4	10.7	11.1	8.8	9.1	7.8	7.0	7.8	6.0	5.2	4.0	4.2	4.7	3.4	4.3	4.4	3.0	2.6	3.1	+0.5
Population Density:																								
Large MSA	12.3	11.7	12.3	12.0	12.6	15.3	15.7	12.2	13.2	13.8	9.6	7.4	6.1	5.6	5.5	5.4	5.7	4.3	5.2	4.8	4.3	3.6	2.3	-1.3
Other MSA	11.7	11.6	13.6	15.5	17.5	18.8	16.9	15.1	15.5	12.1	11.6	10.4	8.7	8.1	7.0	6.7	7.2	6.2	6.0	6.3	5.3	4.7	4.8	0.0
Non-MSA	14.3	14.5	16.9	15.5	18.4	20.8	22.5	21.1	19.7	17.5	16.3	13.1	13.7	12.3	11.4	13.2	9.6	7.5	8.5	9.7	7.6	7.4	6.8	-0.6
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	16.0	17.8	19.3	15.5	20.0	19.3	17.7	17.4	20.1	18.9	12.9	14.1	15.3	11.4	9.9	12.5	9.8	7.6	9.4	10.0	8.2	8.0	6.8	-1.2
2.5–3.0	15.5	13.9	16.9	17.6	21.6	23.1	22.1	21.3	19.1	17.6	16.2	14.7	12.7	11.5	11.1	11.9	10.8	8.7	8.7	10.1	8.9	7.5	7.2	-0.3
3.5–4.0	12.0	11.8	13.6	15.9	17.0	19.4	18.9	14.9	16.6	14.2	12.2	10.0	8.8	9.3	7.9	7.8	7.2	6.7	6.7	7.1	5.6	4.5	4.7	+0.1
4.5–5.0	10.6	10.5	10.7	11.5	12.6	14.8	15.6	12.9	13.0	11.5	9.7	6.8	5.8	5.4	5.2	4.4	5.5	3.8	4.6	3.9	3.3	4.3	2.8	-1.5 s
5.5–6.0 (High)	9.6	9.0	10.5	9.6	10.3	13.6	12.0	11.1	11.2	9.8	8.3	6.4	4.5	4.2	4.4	4.3	3.5	3.0	3.5	3.1	2.5	2.8	1.9	-1.0
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	14.5	15.3	16.5	17.6	20.0	21.4	20.3	19.1	17.7	15.5	13.3	11.4	10.0	9.1	8.7	8.8	8.0	7.1	7.4	7.1	6.2	5.7	-0.5
African American	—	2.8	3.1	3.8	4.7	5.1	5.6	5.8	5.3	5.2	5.2	5.0	4.3	4.4	3.9	3.3	3.2	3.0	3.2	3.5	3.5	2.9	2.6	-0.3
Hispanic	—	8.4	8.9	8.1	9.9	11.6	10.8	9.4	9.1	8.8	7.4	6.4	6.0	6.0	5.9	5.3	3.8	3.8	4.5	4.4	3.8	3.0	2.6	-0.3

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 116**  
**CIGARETTES: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 12**

	Percentage who used daily in last 30 days																			→	
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	(Years cont.)
Approximate weighted N =	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400	
<b>Total</b>	26.9	28.8	28.8	27.5	25.4	21.3	20.3	21.1	21.2	18.7	19.5	18.7	18.7	18.1	18.9	19.1	18.5	17.2	19.0	19.4	
<b>Gender:</b>																					
Male	26.9	28.0	27.1	26.0	22.3	18.5	18.1	18.2	19.2	16.0	17.8	16.9	16.4	17.4	17.9	18.6	18.8	17.2	19.4	20.4	
Female	26.4	28.8	30.0	28.3	27.8	23.5	21.7	23.2	22.2	20.5	20.6	19.8	20.6	18.1	19.4	19.3	17.9	16.7	18.2	18.1	
<b>College Plans:</b>																					
None or under 4 years	—	36.5	37.2	35.2	33.8	29.7	29.3	29.5	29.3	27.2	29.6	28.2	29.0	27.4	27.9	28.3	28.4	28.1	27.8	29.8	
Complete 4 years	—	19.8	19.3	18.3	17.0	13.8	12.9	13.2	13.8	11.9	12.4	12.8	13.3	13.4	14.6	14.7	14.1	12.9	15.9	15.7	
<b>Region:</b>																					
Northeast	31.4	32.3	33.8	32.5	28.6	24.1	23.3	23.4	26.1	23.6	24.9	24.9	24.8	21.4	21.3	22.8	20.9	19.4	23.5	21.3	
Midwest	28.6	30.2	29.4	28.6	27.0	22.0	23.0	24.0	23.4	20.4	22.4	19.9	20.3	19.0	23.0	22.2	23.0	19.0	21.3	23.8	
South	26.2	29.1	28.7	26.4	25.8	22.6	19.1	20.2	19.4	17.7	16.0	15.8	15.7	17.7	17.1	16.5	16.4	16.7	18.5	19.3	
West	17.3	19.4	19.2	19.1	17.0	14.0	13.1	12.7	13.0	12.4	14.2	13.4	14.9	14.0	13.8	14.8	13.9	13.3	13.0	12.4	
<b>Population Density:</b>																					
Large MSA	30.8	30.4	30.9	29.2	24.5	21.6	21.9	23.5	22.1	21.5	21.9	20.6	20.3	18.0	16.7	19.0	16.7	16.6	17.3	17.7	
Other MSA	25.6	27.1	27.2	25.7	25.0	21.3	19.0	19.3	20.2	17.4	17.7	17.0	17.6	17.7	19.0	19.0	19.0	15.9	19.7	19.2	
Non-MSA	25.8	29.5	29.1	28.7	26.5	21.2	20.7	21.3	21.7	18.2	19.9	19.8	19.3	18.8	20.9	19.5	19.0	20.3	19.2	21.6	
<b>Parental Education: <sup>a</sup></b>																					
1.0–2.0 (Low)	27.2	32.7	29.6	28.6	29.1	23.7	24.1	24.6	24.0	23.2	22.7	20.4	19.7	19.2	17.1	16.7	21.2	16.5	17.6	16.9	
2.5–3.0	27.2	31.3	31.5	30.3	26.5	24.7	22.5	23.1	23.2	21.5	21.8	21.4	21.1	19.6	21.5	21.0	19.8	20.4	20.2	22.4	
3.5–4.0	22.1	25.8	28.1	24.8	24.5	19.4	19.0	19.7	18.8	16.4	19.3	19.4	17.8	17.5	19.0	19.3	18.5	16.9	18.9	18.9	
4.5–5.0	22.9	24.5	23.7	23.2	21.2	16.6	16.1	16.8	17.5	14.1	16.0	13.9	16.5	16.5	17.2	18.3	16.2	15.0	18.9	18.7	
5.5–6.0 (High)	17.4	22.8	21.7	22.8	20.6	15.0	13.9	14.5	17.2	14.1	11.2	13.6	16.6	15.1	15.8	16.5	16.1	12.8	16.6	17.3	
<b>Race/Ethnicity (2-year average): <sup>b</sup></b>																					
White	—	—	28.9	28.3	26.9	23.9	21.4	21.6	22.1	21.0	20.4	20.6	20.5	20.6	21.1	21.8	21.5	20.5	21.4	22.9	
African American	—	—	24.9	22.7	20.9	17.4	14.6	13.1	12.5	10.7	9.9	9.4	7.9	7.3	6.4	5.8	5.1	4.2	4.1	4.9	
Hispanic	—	—	22.6	20.4	15.8	12.8	13.6	14.3	14.9	13.9	11.8	11.3	11.0	10.9	10.8	10.9	11.5	12.5	11.8	10.6	

(Table continued on next page.)

**TABLE 116 (cont.)**  
**CIGARETTES: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 12**

	Percentage who used daily in last 30 days																			2012– 2013 change
Approximate weighted N =	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	
Total	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	-0.8
Gender:																				
Male	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	-0.8
Female	21.7	22.2	24.8	22.7	23.6	20.9	18.4	17.2	17.0	15.4	14.6	12.0	13.0	12.0	11.8	12.3	11.6	10.9	9.7	-1.2
College Plans:	20.8	21.8	23.6	21.5	22.2	19.7	18.9	16.1	14.0	15.0	11.9	11.8	11.2	10.6	9.9	8.7	8.6	7.3	6.5	-0.8
None or under 4 years	33.7	33.2	35.6	34.6	34.2	31.7	30.1	27.6	27.9	26.9	24.9	22.8	22.5	21.1	20.9	21.6	21.0	18.4	18.8	+0.4
Complete 4 years	17.4	18.9	20.6	18.4	19.5	16.6	15.5	13.8	12.1	12.2	10.5	9.4	9.9	9.0	8.6	8.2	7.9	7.0	5.8	-1.2
Region:																				
Northeast	22.5	27.0	29.4	23.4	23.2	22.8	21.9	18.4	16.4	16.2	13.3	14.3	14.3	11.3	10.8	10.3	10.2	11.3	9.8	-1.5
Midwest	25.7	26.1	28.0	27.8	25.9	23.6	25.2	22.5	18.2	18.5	16.3	13.2	14.5	12.9	15.4	12.5	11.7	11.6	8.4	-3.1 s
South	21.7	20.5	22.6	21.8	24.2	19.4	15.5	16.6	16.3	15.8	15.4	13.3	12.9	13.1	11.4	12.3	10.8	9.0	10.5	+1.5
West	14.5	13.8	17.5	15.5	17.3	16.9	13.4	9.5	11.8	10.1	7.6	7.0	7.4	7.0	5.9	6.7	7.9	5.8	4.6	-1.2
Population Density:																				
Large MSA	21.3	20.7	23.7	20.6	18.6	16.7	17.4	15.0	11.5	12.6	11.4	10.3	10.3	8.9	8.6	9.9	9.2	8.3	7.2	-1.1
Other MSA	19.9	21.9	23.9	21.2	22.8	21.1	17.5	16.7	15.9	16.1	12.7	11.5	11.7	11.2	11.0	9.9	9.5	8.2	7.9	-0.3
Non-MSA	24.8	24.1	26.8	27.2	28.5	24.5	23.9	19.8	21.4	18.0	18.2	16.2	16.6	14.8	15.1	14.0	13.7	13.5	11.8	-1.7
Parental Education: <sup>a</sup>																				
1.0–2.0 (Low)	21.3	21.1	21.9	21.7	23.8	22.8	16.4	12.4	15.1	14.2	11.7	11.4	14.6	11.9	11.2	8.9	9.9	9.6	10.2	+0.6
2.5–3.0	24.6	24.4	26.0	24.7	26.9	22.9	21.9	19.8	18.3	19.4	18.3	16.1	15.1	13.4	14.7	13.9	13.5	11.6	10.4	-1.2
3.5–4.0	21.6	21.2	23.8	23.8	23.6	21.2	19.9	19.1	16.5	16.3	14.4	12.3	12.3	12.5	11.5	11.6	10.7	11.2	10.0	-1.2
4.5–5.0	19.7	22.4	24.9	20.6	20.6	18.6	17.9	14.1	13.0	13.7	11.7	10.4	11.2	9.0	9.0	8.7	8.2	7.1	6.4	-0.7
5.5–6.0 (High)	18.5	20.0	22.9	17.4	19.0	15.2	13.4	14.3	11.3	10.3	8.1	8.3	7.4	9.1	5.8	6.1	6.7	4.7	3.6	-1.1
Race/Ethnicity (2-year average): <sup>b</sup>																				
White	23.9	25.4	27.8	28.3	26.9	25.7	23.8	21.8	19.5	18.3	17.1	15.3	14.5	14.3	13.9	13.5	13.0	12.1	10.9	-1.2
African American	6.1	7.0	7.2	7.4	7.7	8.0	7.5	6.4	5.4	5.2	5.6	5.7	5.8	5.8	5.4	5.3	4.9	4.7	5.3	+0.6
Hispanic	11.6	12.9	14.0	13.6	14.0	15.7	12.0	9.2	8.0	8.2	7.7	7.0	6.6	6.7	6.4	5.7	5.3	4.9	4.7	-0.2

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

TABLE 117

**CIGARETTES: Trends in 30-Day Prevalence of Use of Half Pack a Day or More by Subgroups in Grade 8**

	Percentage who used half pack a day or more in last 30 days																						2012– 2013 change		
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>		
<i>Approximate weighted N =</i>	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600		
Total	3.1	2.9	3.5	3.6	3.4	4.3	3.5	3.6	3.3	2.8	2.3	2.1	1.8	1.7	1.7	1.5	1.1	1.2	1.0	0.9	0.7	0.6	0.7	+0.1	
Gender:																									
Male	3.7	3.1	4.3	4.2	3.7	4.7	3.7	3.5	3.1	2.8	2.6	2.4	1.8	1.7	2.0	1.7	1.3	1.4	1.2	1.1	0.7	0.8	0.9	+0.1	
Female	2.4	2.7	2.7	2.9	3.2	3.7	3.1	3.3	3.3	2.6	2.0	1.9	1.7	1.7	1.3	1.3	0.8	0.9	0.7	0.7	0.6	0.3	0.5	+0.2	
College Plans:																									
None or under 4 years	10.1	10.8	11.9	11.7	11.4	13.5	11.6	13.8	13.4	10.3	9.8	8.4	7.5	7.4	7.7	5.8	4.7	4.7	4.7	4.6	3.0	3.0	4.0	+1.0	
Complete 4 years	1.9	1.7	2.2	2.4	2.3	2.8	2.4	2.2	2.0	1.8	1.4	1.5	1.2	1.1	1.0	1.1	0.7	0.8	0.6	0.5	0.5	0.4	0.5	+0.1	
Region:																									
Northeast	3.3	2.8	2.7	3.7	3.7	4.1	3.7	2.1	3.1	3.3	2.6	1.7	1.0	1.4	1.4	1.2	0.8	0.9	0.8	0.6	0.2	0.7	0.4	-0.3	
Midwest	3.3	3.2	3.5	3.9	4.4	5.3	4.1	4.6	5.7	3.4	3.1	2.7	2.1	2.3	2.2	1.9	1.2	1.6	1.1	1.0	0.8	0.5	0.5	0.0	
South	3.4	3.3	4.6	3.9	3.6	4.5	3.7	4.8	2.9	2.8	2.7	2.5	2.6	1.8	1.9	2.1	1.3	1.3	1.1	1.2	0.8	0.8	1.1	+0.3	
West	1.9	2.0	2.2	2.6	1.8	2.7	2.2	1.6	1.2	1.3	0.7	0.9	0.8	1.2	0.9	0.6	0.9	0.6	0.7	0.5	1.0	0.3	0.6	+0.3	
Population Density:																									
Large MSA	2.4	2.3	2.1	3.0	2.5	3.7	2.7	2.3	1.8	2.1	1.5	1.3	1.0	1.3	1.0	0.9	0.7	0.7	0.5	0.4	0.3	0.4	0.5	+0.1	
Other MSA	3.3	3.2	3.7	3.9	3.6	3.8	3.2	3.2	2.8	2.2	2.1	2.2	1.7	1.6	1.5	1.6	1.1	1.3	1.1	0.9	1.0	0.6	0.7	0.0	
Non-MSA	3.4	3.3	5.0	3.7	4.3	5.8	4.8	5.6	5.9	4.6	3.9	3.1	3.1	2.4	2.9	2.3	1.7	1.6	1.3	1.4	0.8	0.8	1.3	+0.4	
Parental Education: <sup>a</sup>																									
1.0–2.0 (Low)	7.9	6.5	6.4	5.1	8.2	6.5	6.4	6.2	6.2	7.1	5.2	4.6	3.7	5.6	2.9	3.6	1.9	2.5	2.6	0.9	1.2	0.7	1.0	+0.3	
2.5–3.0	3.7	3.4	3.9	4.9	4.1	6.4	4.8	5.2	4.8	3.8	3.6	2.8	2.9	2.1	2.8	2.4	2.0	1.5	1.2	1.7	1.0	1.0	0.9	-0.1	
3.5–4.0	2.5	2.6	3.6	3.4	3.6	3.2	3.5	3.7	3.4	2.3	2.0	2.2	1.8	1.5	1.9	1.3	1.3	1.0	0.8	0.9	0.8	0.7	0.7	0.0	
4.5–5.0	1.6	1.8	2.3	2.6	2.0	2.8	2.2	2.0	1.5	1.4	0.9	1.2	0.7	0.8	0.6	1.0	0.5	0.7	0.4	0.7	0.4	0.1	0.3	+0.2	
5.5–6.0 (High)	1.8	1.5	2.2	2.2	1.5	2.7	1.8	2.1	1.8	1.5	1.4	1.1	0.9	0.6	0.5	0.6	0.2	0.9	0.7	0.2	0.2	0.4	0.7	+0.3	
Race/Ethnicity (2-year average): <sup>b</sup>																									
White	—	3.3	3.8	4.2	4.2	4.6	4.6	4.2	4.0	3.6	3.2	2.8	2.3	1.9	1.9	1.9	1.5	1.2	1.2	1.1	0.9	0.7	0.7	0.0	
African American	—	0.4	0.7	1.0	0.9	1.3	1.4	1.2	1.3	1.0	1.1	1.1	1.2	1.1	0.9	0.8	0.9	0.8	0.8	0.6	0.4	0.4	0.6	+0.2	
Hispanic	—	2.7	2.5	3.1	3.3	2.7	2.4	2.8	3.0	2.3	1.4	1.3	1.5	1.4	1.1	0.7	0.9	0.9	0.7	0.7	0.7	0.5	0.5	0.0	

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother’s education and father’s education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 118**  
**CIGARETTES: Trends in 30-Day Prevalence of Use of Half Pack a Day or More**  
**by Subgroups in Grade 10**

	Percentage who used half pack a day or more in last 30 days																							2012– 2013 change
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	
<i>Approximate weighted N =</i>	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	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	0.0
Gender:																								
Male	6.9	6.5	7.8	8.2	8.7	9.9	8.9	8.1	7.8	6.7	6.0	4.1	4.3	3.5	2.9	3.1	2.9	2.4	2.7	3.0	2.5	1.7	1.9	+0.2
Female	6.0	5.1	6.2	6.7	7.7	9.0	8.2	7.8	7.3	5.6	5.1	4.6	3.8	2.9	3.2	3.3	2.5	1.7	2.0	1.8	1.2	1.3	1.1	-0.2
College Plans:																								
None or under 4 years	15.9	15.3	18.5	18.5	20.9	22.4	22.0	20.6	18.9	16.0	16.0	11.5	12.3	10.8	9.4	12.0	8.1	7.8	8.6	8.6	7.0	6.8	5.3	-1.4
Complete 4 years	4.4	4.0	4.6	5.2	6.1	7.1	6.3	5.6	5.7	4.5	3.8	3.1	2.8	2.2	2.2	2.1	2.0	1.3	1.7	1.7	1.3	1.0	1.0	0.0
Region:																								
Northeast	7.8	5.9	8.5	7.8	7.7	9.1	8.8	10.0	9.1	6.0	5.0	3.7	4.6	3.6	3.4	3.2	2.5	1.2	2.2	2.6	2.3	1.1	1.4	+0.3
Midwest	7.1	7.3	7.7	8.3	9.5	10.9	9.3	9.1	9.9	8.1	6.0	4.8	5.0	3.0	3.3	4.5	4.2	3.3	2.7	2.7	2.2	1.5	1.8	+0.2
South	7.2	5.5	7.1	8.7	10.3	11.0	10.2	8.9	7.8	7.1	6.5	5.5	4.5	4.3	3.7	3.6	2.8	2.6	3.2	3.1	2.3	2.3	2.0	-0.3
West	4.0	5.0	4.3	4.2	3.4	5.0	4.4	3.0	3.0	2.2	3.3	2.5	2.3	1.8	1.7	1.3	1.3	0.7	1.0	1.1	0.5	0.8	0.7	-0.1
Population Density:																								
Large MSA	6.9	5.2	5.9	5.8	6.0	7.6	6.6	5.8	6.0	5.7	4.8	3.0	2.3	1.9	2.3	1.8	2.0	1.1	1.6	1.6	1.3	0.9	0.8	-0.1
Other MSA	5.8	5.8	6.7	8.5	9.2	9.5	8.0	7.7	7.6	5.6	5.0	4.7	4.0	3.3	2.6	3.0	2.7	2.2	2.3	2.4	1.7	1.4	1.4	0.0
Non-MSA	7.6	6.9	8.7	7.8	9.2	11.5	12.0	11.0	9.4	7.8	7.5	5.7	7.3	5.2	5.4	6.3	4.0	3.1	3.7	3.8	3.0	2.6	2.7	+0.1
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	9.9	10.7	10.8	8.1	12.0	12.1	10.8	9.0	11.3	10.7	7.6	7.4	8.6	6.6	4.6	7.1	4.9	3.4	4.8	4.2	3.0	3.9	2.6	-1.3
2.5–3.0	8.9	6.9	8.5	10.1	12.2	13.1	11.4	11.6	10.4	8.5	8.3	7.0	6.3	5.3	4.9	5.6	4.5	3.2	3.7	4.5	3.6	2.5	2.6	+0.1
3.5–4.0	5.8	5.4	7.3	8.0	8.6	10.2	8.8	7.4	7.4	5.9	5.3	4.0	4.2	3.8	3.2	3.1	2.6	2.4	2.4	2.3	1.8	1.3	1.5	+0.1
4.5–5.0	4.7	4.7	4.3	5.4	5.0	6.2	6.5	5.9	5.5	4.3	3.9	2.4	2.2	1.4	1.8	1.5	1.6	1.1	1.4	1.1	0.9	1.0	0.9	-0.1
5.5–6.0 (High)	4.5	3.7	3.9	4.0	4.0	5.7	4.8	5.4	4.5	3.6	2.6	2.0	1.4	1.0	1.6	1.6	1.2	0.7	1.1	1.0	0.5	0.5	0.5	0.0
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	7.4	7.7	8.6	9.3	10.5	11.0	10.4	9.9	8.5	7.1	6.2	5.5	4.7	3.9	3.8	3.8	3.2	2.8	2.9	2.6	2.1	1.9	-0.2
African American	—	0.8	0.6	1.2	1.8	1.6	1.7	1.8	1.5	1.9	1.7	1.2	1.0	1.0	1.2	1.3	1.2	0.9	1.1	1.4	1.3	0.9	0.8	-0.1
Hispanic	—	3.0	3.0	2.6	3.4	4.3	3.3	3.0	3.1	2.9	2.7	2.2	1.8	1.5	1.9	2.0	1.0	0.9	1.1	1.0	0.9	0.8	0.6	-0.2

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

Notes: Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 119**  
**CIGARETTES: Trends in 30-Day Prevalence of Use of Half Pack a Day or More**  
**by Subgroups in Grade 12**

		Percentage who used half pack a day or more in last 30 days																			→ (Years cont.)
<i>Approximate weighted N =</i>		1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
		9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400
Total		17.9	19.2	19.4	18.8	16.5	14.3	13.5	14.2	13.8	12.3	12.5	11.4	11.4	10.6	11.2	11.3	10.7	10.0	10.9	11.2
Gender:																					
Male		19.6	19.9	19.7	18.9	15.4	13.5	12.8	13.1	13.1	11.0	12.3	10.7	10.1	11.1	11.2	11.6	11.6	10.4	11.6	12.7
Female		16.1	18.0	18.9	18.0	17.1	14.7	13.8	14.7	13.6	12.8	12.0	11.6	12.5	9.7	10.7	10.8	9.5	9.2	9.9	9.5
College Plans:																					
None or under 4 years		—	25.5	26.9	25.5	23.3	21.2	20.8	21.0	20.9	19.6	20.7	19.2	19.5	18.4	18.6	19.2	18.7	19.1	18.7	19.6
Complete 4 years		—	11.9	11.2	11.1	9.8	8.2	7.5	7.8	7.6	6.5	6.5	6.4	7.2	6.8	7.5	7.5	7.1	6.5	8.1	8.2
Region:																					
Northeast		22.0	22.5	24.2	23.6	19.8	17.0	16.6	15.6	16.6	17.4	17.0	15.6	16.5	13.1	13.6	13.8	12.9	11.1	14.7	12.2
Midwest		18.8	20.3	20.3	19.8	17.4	15.4	16.0	17.3	17.1	13.0	14.9	12.3	12.3	11.5	14.2	13.7	14.1	11.0	12.5	15.3
South		16.8	19.0	18.5	17.0	16.1	14.5	12.0	13.3	12.4	11.3	9.7	10.0	9.4	10.1	9.7	9.4	8.9	10.2	10.4	10.8
West		11.3	12.4	11.5	12.2	10.8	8.3	7.3	7.1	6.4	7.4	7.6	6.5	8.1	7.7	6.9	8.3	7.2	6.8	6.0	5.9
Population Density:																					
Large MSA		21.7	20.1	20.4	19.7	16.2	14.8	15.4	15.9	14.1	14.8	14.4	12.2	13.1	10.8	10.1	11.2	10.2	9.9	9.1	10.2
Other MSA		17.4	18.9	18.8	17.9	16.5	13.8	12.4	12.9	13.5	11.4	11.0	9.6	10.0	10.4	11.2	11.0	10.7	8.4	11.2	10.5
Non-MSA		15.9	19.0	19.5	19.3	16.7	14.7	13.6	14.2	14.0	11.5	12.9	13.3	12.5	10.7	12.1	12.1	11.1	13.1	11.7	13.7
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)		18.6	21.3	20.0	19.2	19.5	16.3	16.0	17.1	17.1	16.4	16.1	15.6	13.8	11.2	11.5	10.2	12.5	11.0	10.7	9.5
2.5–3.0		17.7	21.4	22.2	21.0	17.6	16.8	15.6	15.9	15.2	14.8	14.2	13.3	13.9	12.4	13.5	13.4	12.4	12.7	12.5	13.7
3.5–4.0		13.9	17.4	18.3	16.9	15.2	12.8	12.5	13.3	11.9	10.5	12.0	11.0	10.5	10.3	10.7	11.6	10.7	9.6	10.4	11.0
4.5–5.0		15.9	15.9	14.8	15.4	12.6	10.3	10.1	10.1	10.5	8.0	9.5	6.8	8.9	8.6	9.2	10.2	7.9	8.1	10.0	10.4
5.5–6.0 (High)		9.1	15.9	14.6	14.5	13.6	9.8	8.8	9.3	9.3	7.9	5.4	7.4	8.4	8.3	8.4	7.9	9.0	5.7	8.3	8.8
Race/Ethnicity (2-year average): <sup>b</sup>																					
White		—	—	20.3	20.2	18.6	16.4	15.0	15.1	15.2	14.2	13.6	13.1	12.9	12.9	12.9	13.3	13.1	12.3	12.8	13.7
African American		—	—	10.7	9.7	9.1	7.1	5.8	5.4	4.9	4.1	3.9	3.6	2.9	2.3	1.9	1.8	1.8	1.8	1.5	1.7
Hispanic		—	—	11.3	9.0	6.4	5.6	6.1	5.6	5.9	6.1	5.3	5.0	4.1	3.5	4.2	4.2	4.0	4.6	4.5	4.0

(Table continued on next page.)



**TABLE 119 (cont.)**  
**CIGARETTES: Trends in 30-Day Prevalence of Use of Half Pack a Day or More**  
**by Subgroups in Grade 12**

	Percentage who used half pack a day or more in last 30 days																			2012– 2013 change	
	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>		
Approximate weighted N =	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600		
Total	12.4	13.0	14.3	12.6	13.2	11.3	10.3	9.1	8.4	8.0	6.9	5.9	5.7	5.4	5.0	4.7	4.3	4.0	3.4	-0.6	
Gender:																					
Male	13.2	13.6	15.5	13.5	14.5	11.4	10.2	10.0	9.5	8.0	8.0	6.2	6.4	6.1	5.4	5.6	5.3	4.9	4.0	-0.9	
Female	11.1	12.0	12.6	11.1	11.5	10.8	10.2	7.9	6.6	7.5	5.3	5.2	4.7	4.6	4.2	3.6	3.0	2.8	2.4	-0.4	
College Plans:																					
None or under 4 years	22.6	23.1	23.5	23.7	23.2	20.3	19.3	17.5	17.2	16.0	15.2	13.0	12.5	11.9	11.2	12.0	11.1	9.5	8.6	-0.9	
Complete 4 years	8.9	10.0	11.0	8.9	10.1	8.1	7.6	6.7	5.5	5.6	4.6	3.9	4.0	3.8	3.6	3.1	2.8	2.6	2.1	-0.5	
Region:																					
Northeast	13.4	17.0	19.4	13.6	13.4	13.6	12.3	10.9	8.7	9.0	7.5	7.9	6.1	5.5	5.0	4.4	4.0	5.4	4.3	-1.1	
Midwest	14.2	15.1	16.9	16.8	15.0	13.7	14.8	13.6	10.1	8.8	8.7	6.7	7.2	6.6	7.2	5.9	4.5	5.2	3.4	-1.7 s	
South	12.6	12.0	12.3	11.8	13.9	10.6	7.6	8.6	8.9	8.9	7.6	6.0	6.4	6.5	5.3	5.5	5.2	4.0	4.3	+0.3	
West	8.4	6.5	8.2	7.5	9.0	7.5	6.6	3.1	5.0	4.1	3.1	2.9	2.5	2.6	1.8	2.2	3.0	1.8	1.4	-0.5	
Population Density:																					
Large MSA	12.3	11.6	12.8	11.0	9.6	8.2	9.4	7.6	5.4	6.0	5.2	4.8	4.2	3.4	3.8	4.0	3.8	3.2	2.6	-0.6	
Other MSA	11.1	12.8	14.3	11.7	12.6	11.6	9.4	8.7	8.4	8.2	6.3	5.0	5.3	5.3	4.6	4.2	3.9	3.4	2.8	-0.6	
Non-MSA	14.7	14.4	16.0	16.5	18.0	14.5	13.3	11.9	12.2	10.0	10.4	9.2	8.8	8.2	7.5	6.9	6.2	6.8	6.0	-0.8	
Parental Education: <sup>a</sup>																					
1.0–2.0 (Low)	13.5	13.6	11.9	12.5	15.0	16.1	10.8	7.4	8.7	8.6	6.8	5.4	7.5	6.8	5.2	4.3	5.0	4.9	3.9	-1.0	
2.5–3.0	15.1	14.8	16.4	14.9	16.6	13.8	12.5	12.0	10.5	10.9	10.0	8.4	7.6	6.9	7.2	6.4	6.2	5.3	5.0	-0.3	
3.5–4.0	12.7	12.3	13.9	13.8	13.1	10.7	10.6	10.3	8.7	8.2	7.2	5.8	5.6	6.0	5.1	5.1	4.3	4.7	3.7	-1.1	
4.5–5.0	9.8	12.6	14.5	10.3	10.7	9.3	9.2	6.8	5.7	6.1	5.1	4.6	4.7	3.7	3.6	3.2	2.7	2.3	2.4	+0.1	
5.5–6.0 (High)	9.1	10.8	11.2	7.4	9.5	7.1	6.2	5.4	4.9	4.7	3.2	3.3	2.7	3.5	2.0	2.3	2.7	2.0	1.1	-0.9	
Race/Ethnicity (2-year average): <sup>b</sup>																					
White	14.2	15.2	16.9	16.9	15.9	15.1	13.6	12.4	10.9	10.0	9.1	7.9	7.1	7.1	7.0	6.6	6.0	5.4	4.8	-0.6	
African American	2.2	2.5	2.8	2.5	2.4	2.6	2.4	2.1	1.7	1.6	1.8	2.1	2.4	2.2	1.6	1.6	2.0	1.5	1.5	0.0	
Hispanic	4.1	5.3	5.8	5.2	5.8	7.0	5.3	3.8	3.0	2.9	2.9	2.6	2.5	2.1	1.6	1.5	1.4	1.3	1.4	+0.1	

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

*Notes.* Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 120**  
**TOBACCO USING A HOOKAH: Trends in Annual**  
**Prevalence of Use by Subgroups in Grade 12**

	Percent who used in last 12 months					2012– 2013 change
	1975– <u>2011</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	
<i>Approximate weighted N =</i>		14,400	14,100	13,700	12,600	
Total	—	17.1	18.5	18.3	21.4	+3.1 s
Gender:						
Male	—	19.0	20.0	19.9	21.6	+1.6
Female	—	15.2	16.7	17.0	21.0	+4.0
College Plans:						
None or under 4 years	—	19.4	19.8	17.9	21.3	+3.4
Complete 4 years	—	16.2	18.6	18.4	21.5	+3.2 s
Region:						
Northeast	—	15.4	15.1	17.5	23.9	+6.4
Midwest	—	17.9	21.3	18.6	18.9	+0.3
South	—	15.3	14.5	12.1	16.5	+4.4 s
West	—	20.9	23.9	26.2	29.7	+3.4
Population Density:						
Large MSA	—	19.6	18.6	22.7	25.2	+2.5
Other MSA	—	18.3	21.2	19.3	23.6	+4.4 s
Non-MSA	—	10.5	12.3	9.1	10.7	+1.6
Parental Education: <sup>a</sup>						
1.0–2.0 (Low)	—	16.8	19.8	18.1	19.2	+1.1
2.5–3.0	—	16.3	17.6	16.8	20.6	+3.8
3.5–4.0	—	18.7	18.1	19.4	23.7	+4.3
4.5–5.0	—	15.0	18.6	19.6	20.8	+1.1
5.5–6.0 (High)	—	21.3	20.6	17.6	20.4	+2.8
Race/Ethnicity (2-year data): <sup>b</sup>						
White	—	—	20.6	20.5	20.2	-0.3
African American	—	—	6.0	5.9	8.6	+2.7
Hispanic	—	—	17.6	18.5	22.8	+4.4

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

*Notes.* '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms; *N* is one sixth of *N* indicated in Table S3.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education.

See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 121**  
**SMALL CIGARS: Trends in Annual Prevalence**  
**of Use by Subgroups in Grade 12**

	Percent who used in last 12 months					2012– 2013 change
	1975– <u>2011</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	
<i>Approximate weighted N =</i>		14,400	14,100	13,700	12,600	
Total	—	23.1	19.5	19.9	20.4	+0.5
Gender:						
Male	—	29.7	26.7	27.1	26.5	-0.6
Female	—	16.3	12.3	12.9	14.8	+1.9
College Plans:						
None or under 4 years	—	30.7	27.7	24.5	21.8	-2.7
Complete 4 years	—	21.4	17.8	19.0	20.1	+1.1
Region:						
Northeast	—	26.1	21.5	19.2	21.4	+2.3
Midwest	—	28.1	23.7	28.4	23.7	-4.8
South	—	19.8	14.2	12.8	19.8	+7.0 ss
West	—	20.8	21.8	20.5	17.1	-3.4
Population Density:						
Large MSA	—	22.7	16.2	21.6	18.5	-3.0
Other MSA	—	23.5	21.9	19.5	22.4	+2.9
Non-MSA	—	22.5	18.4	18.3	18.3	0.0
Parental Education: <sup>a</sup>						
1.0–2.0 (Low)	—	16.6	14.8	12.8	18.3	+5.5
2.5–3.0	—	23.6	16.2	18.6	17.5	-1.1
3.5–4.0	—	22.9	19.9	20.5	22.8	+2.3
4.5–5.0	—	25.9	19.4	23.2	22.1	-1.1
5.5–6.0 (High)	—	23.5	26.5	19.7	18.1	-1.6
Race/Ethnicity (2-year data): <sup>b</sup>						
White	—	—	25.8	24.3	23.9	-0.4
African American	—	—	6.3	5.9	9.1	+3.2
Hispanic	—	—	17.9	13.6	16.0	+2.4

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

*Notes.* '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms; *N* is one sixth of *N* indicated in Table S3.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Parental education is an average score of mother's education and father's education.

See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 122**  
**SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 30 days																						2012– 2013 change	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		2013
<i>Approximate weighted N =</i>	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	6.9	7.0	6.6	7.7	7.1	7.1	5.5	4.8	4.5	4.2	4.0	3.3	4.1	4.1	3.3	3.7	3.2	3.5	3.7	4.1	3.5	2.8	2.8	+0.1
Gender:																								
Male	12.7	12.5	10.9	12.8	11.8	11.4	9.9	8.1	6.9	6.7	6.9	5.4	6.7	6.4	5.3	5.3	4.7	5.5	6.3	6.3	4.9	4.0	3.8	-0.2
Female	1.4	2.0	2.7	2.4	2.9	2.9	1.5	1.5	2.1	1.8	1.4	1.3	1.8	1.7	1.5	2.1	1.7	1.5	1.4	1.9	1.9	1.5	1.9	+0.4
College Plans:																								
None or under 4 years	12.7	17.1	15.5	16.7	15.4	16.4	12.6	13.9	13.2	11.4	14.6	10.2	12.8	12.3	10.8	11.3	8.9	12.7	11.1	14.0	11.1	11.5	9.2	-2.3
Complete 4 years	6.1	5.5	5.3	6.5	6.0	5.6	4.6	3.8	3.5	3.4	2.9	2.6	3.3	3.2	2.4	2.9	2.7	2.7	3.1	3.2	2.8	2.1	2.4	+0.3
Region:																								
Northeast	5.0	4.9	3.4	6.1	5.4	4.9	3.2	2.7	2.5	2.7	3.7	2.7	3.1	3.4	1.4	2.9	1.5	2.5	3.2	3.9	2.9	2.6	1.8	-0.8
Midwest	7.1	7.5	7.2	7.1	7.6	8.3	6.8	4.3	5.3	4.8	4.0	3.9	3.5	4.2	3.2	4.0	2.9	3.4	3.0	4.8	3.3	2.1	1.4	-0.7
South	9.5	9.3	8.0	9.9	8.7	8.1	6.7	6.9	5.9	5.8	5.4	4.1	5.9	5.5	5.3	4.6	4.1	5.2	5.6	5.0	4.3	3.6	4.7	+1.0
West	3.5	4.4	6.3	6.0	5.0	5.9	4.1	3.9	2.9	1.9	2.1	1.5	2.5	2.0	1.4	2.2	2.8	1.8	1.8	1.9	2.6	2.0	2.0	-0.1
Population Density:																								
Large MSA	4.8	4.2	3.3	4.6	4.1	4.2	3.6	2.9	1.8	2.4	2.4	1.5	2.6	1.9	1.3	1.9	1.9	2.8	2.5	2.3	1.8	1.4	1.7	+0.3
Other MSA	6.2	6.9	6.8	6.4	6.7	7.1	4.7	4.1	3.9	3.9	3.5	2.9	3.7	3.6	2.8	3.1	3.1	3.1	3.6	4.7	3.7	3.1	2.6	-0.5
Non-MSA	10.4	10.3	9.9	13.0	11.2	10.6	9.0	8.5	8.9	7.0	7.0	6.2	6.9	7.7	7.0	7.1	5.3	5.4	5.8	5.0	5.4	4.2	4.9	+0.7
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	11.4	7.8	9.4	8.9	10.6	6.3	8.3	5.4	6.6	7.4	5.0	4.5	6.8	6.9	5.7	5.9	4.9	5.4	5.3	5.2	6.6	4.2	4.1	-0.2
2.5–3.0	8.4	8.5	7.5	8.4	9.9	8.8	6.0	5.1	5.7	5.2	5.4	5.1	5.1	6.0	4.9	3.9	3.7	5.1	5.5	6.0	4.2	3.8	3.5	-0.3
3.5–4.0	6.7	7.0	7.5	8.7	7.0	7.2	6.5	5.9	4.5	4.5	3.7	3.2	4.1	3.5	3.1	3.7	3.1	3.8	4.9	4.1	3.3	3.2	3.7	+0.4
4.5–5.0	4.8	7.0	5.2	6.1	5.0	6.8	4.8	4.4	3.3	2.9	2.5	2.4	3.1	3.2	2.4	3.1	2.5	2.4	2.9	3.3	2.7	2.0	1.6	-0.4
5.5–6.0 (High)	6.1	4.6	4.9	6.8	5.8	5.9	3.7	3.9	3.1	3.0	4.2	2.5	2.7	2.9	1.8	3.4	2.3	2.3	1.4	2.5	1.5	1.4	1.8	+0.4
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	8.3	8.0	8.1	8.9	8.8	7.6	6.1	5.4	5.2	4.8	4.1	3.9	4.4	4.2	3.7	3.8	3.9	4.4	4.9	4.6	3.6	3.1	-0.5
African American	—	1.8	2.7	3.2	2.6	2.2	2.6	2.3	2.3	2.7	2.2	1.6	2.7	3.0	2.0	2.1	2.3	2.4	2.6	2.2	1.8	1.8	2.2	+0.4
Hispanic	—	4.2	4.0	5.0	5.7	5.2	4.6	4.5	4.6	3.7	3.3	4.0	4.7	4.0	2.6	3.1	2.9	2.4	2.5	2.6	3.2	3.1	2.4	-0.7

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996 and on two of four forms beginning in 1997;  $N$  is one half of  $N$  indicated in Table S1. In 2011 snus and dissolvable tobacco were added to the list of examples.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 123**  
**SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 30 days																						2012– 2013 change	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Approximate weighted <i>N</i> =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	10.0	9.6	10.4	10.5	9.7	8.6	8.9	7.5	6.5	6.1	6.9	6.1	5.3	4.9	5.6	5.7	6.1	5.0	6.5	7.5	6.6	6.4	6.4	0.0
Gender:																								
Male	18.7	18.1	19.3	19.2	17.2	15.0	14.9	13.8	12.2	11.4	12.7	9.9	9.6	9.0	9.7	10.2	10.2	8.2	11.1	13.0	11.5	11.2	11.1	-0.2
Female	1.3	1.8	2.0	2.1	2.1	2.3	2.7	1.7	1.3	1.3	1.6	2.1	1.3	1.0	1.6	1.2	2.0	2.0	2.0	2.0	1.9	1.9	2.0	+0.1
College Plans:																								
None or under 4 years	16.9	17.5	20.2	19.9	20.3	16.3	18.5	17.8	13.2	13.9	16.0	13.6	13.0	12.2	13.3	14.9	14.0	14.6	17.5	21.8	17.9	16.8	18.6	+1.8
Complete 4 years	8.4	8.0	8.4	8.5	7.8	7.2	7.2	5.7	5.4	4.8	5.4	4.8	4.1	3.9	4.5	4.5	5.0	3.8	5.3	5.8	5.2	5.3	5.1	-0.2
Region:																								
Northeast	8.6	5.3	8.0	9.0	7.6	6.8	9.3	6.5	5.2	4.6	4.9	4.7	4.5	5.1	4.6	4.5	5.9	3.3	6.6	6.7	5.6	4.3	6.4	+2.1
Midwest	11.0	9.6	10.0	10.0	11.0	9.5	7.1	7.9	8.1	6.2	7.0	4.8	4.9	3.7	5.7	7.5	6.3	7.2	7.7	9.2	6.4	7.9	6.9	-0.9
South	11.6	11.4	11.8	11.7	10.9	10.2	10.2	9.5	7.9	7.7	9.6	8.3	7.5	7.3	7.0	6.0	8.3	6.5	7.7	9.1	7.9	8.1	6.9	-1.2
West	7.8	10.9	11.1	10.9	7.7	6.0	8.2	4.6	4.0	4.5	3.0	5.1	3.5	3.0	4.5	4.1	3.3	2.2	3.3	4.0	5.4	4.0	5.4	+1.4
Population Density:																								
Large MSA	5.9	6.4	6.5	6.2	5.9	5.5	4.2	3.7	4.6	5.6	4.1	4.5	3.7	3.0	3.2	3.9	4.1	3.4	4.8	5.1	4.6	3.6	5.1	+1.5
Other MSA	9.2	9.3	10.1	10.9	9.2	8.4	8.3	5.7	5.3	4.3	5.7	6.1	4.8	4.3	5.3	5.3	5.8	4.4	6.3	7.0	6.1	6.3	5.3	-1.0
Non-MSA	14.7	13.3	14.1	13.9	15.0	12.2	14.7	15.1	11.3	9.8	12.5	8.2	9.2	9.0	9.4	9.6	9.9	8.7	9.3	12.1	10.2	10.5	11.2	+0.7
Parental Education: <sup>a</sup>																								
1.0–2.0 (Low)	6.6	10.1	10.9	9.4	9.6	8.1	9.0	6.8	7.2	7.4	6.9	6.7	7.4	3.7	4.4	7.4	6.1	5.0	7.9	6.5	6.4	7.2	5.6	-1.7
2.5–3.0	12.1	11.0	12.2	12.5	10.4	9.7	9.4	8.2	7.0	6.4	8.9	8.1	5.0	5.8	6.7	7.1	6.9	6.5	7.4	9.1	8.8	7.7	8.4	+0.6
3.5–4.0	10.6	10.5	10.9	10.2	10.9	8.3	10.3	8.6	7.3	6.3	7.1	5.5	4.9	5.2	6.0	5.7	6.4	5.4	7.4	8.7	7.2	7.5	6.9	-0.5
4.5–5.0	9.3	7.6	9.9	9.8	9.8	8.5	7.2	6.9	6.1	6.2	5.7	5.4	5.7	4.4	5.6	4.9	6.1	4.6	5.4	7.0	5.2	6.1	5.9	-0.2
5.5–6.0 (High)	8.6	8.1	7.0	8.9	6.0	7.7	8.3	5.2	4.8	4.0	4.8	5.2	4.3	4.4	3.8	5.3	4.8	2.9	5.6	6.0	5.3	3.8	5.3	+1.5
Race/Ethnicity (2-year average): <sup>b</sup>																								
White	—	11.4	12.0	12.5	12.0	11.0	10.4	10.0	8.7	7.5	7.5	7.8	6.9	6.1	6.6	6.9	7.3	7.3	7.5	9.1	9.1	8.0	8.1	0.0
African American	—	2.9	2.3	2.3	2.5	2.5	2.8	2.3	1.6	2.0	3.2	2.6	2.5	2.7	2.5	3.2	3.3	2.8	2.6	2.3	2.2	2.3	2.2	-0.1
Hispanic	—	6.2	6.1	4.3	3.6	4.0	4.6	4.8	4.8	4.5	4.0	4.0	4.1	3.3	3.1	3.4	2.7	2.6	2.9	2.8	3.4	4.4	3.4	-1.0

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

Notes. Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996 and on two of four forms beginning in 1997; *N* is one half of *N* indicated in Table S2. In 2011 snus and dissolvable tobacco were added to the list of examples.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE-124**  
**SMOKELESS TOBACCO**  
**Trends in 30-Day Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 30 days																			→ (Years cont.)	
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990 <sup>a</sup>	1991 <sup>a</sup>	1992	1993		1994
<i>Approximate weighted N =</i>	—	—	—	—	—	—	—	—	—	—	—	15,200	16,300	16,300	16,700	—	—	15,800	16,300	15,400	
<b>Total</b>	—	—	—	—	—	—	—	—	—	—	—	11.5	11.3	10.3	8.4	—	—	11.4	10.7	11.1	
<b>Gender</b>																					
Male	—	—	—	—	—	—	—	—	—	—	—	22.3	22.8	19.9	15.9	—	—	20.8	19.7	20.3	
Female	—	—	—	—	—	—	—	—	—	—	—	1.6	0.7	1.7	1.2	—	—	2.0	2.3	2.6	
<b>College Plans</b>																					
None or under 4 years	—	—	—	—	—	—	—	—	—	—	—	14.5	15.5	13.1	9.6	—	—	18.0	14.9	15.8	
Complete 4 years	—	—	—	—	—	—	—	—	—	—	—	9.8	9.0	8.8	7.7	—	—	9.4	9.4	9.3	
<b>Region</b>																					
Northeast	—	—	—	—	—	—	—	—	—	—	—	9.5	7.3	5.9	5.0	—	—	8.2	9.6	12.0	
Midwest	—	—	—	—	—	—	—	—	—	—	—	13.5	11.3	10.8	8.3	—	—	12.3	13.6	14.7	
South	—	—	—	—	—	—	—	—	—	—	—	12.2	13.7	12.1	9.8	—	—	12.5	11.1	9.7	
West	—	—	—	—	—	—	—	—	—	—	—	9.3	11.7	10.9	9.1	—	—	11.1	7.0	8.5	
<b>Population Density</b>																					
Large MSA	—	—	—	—	—	—	—	—	—	—	—	9.0	6.4	7.7	6.8	—	—	5.9	7.1	7.5	
Other MSA	—	—	—	—	—	—	—	—	—	—	—	8.9	10.5	8.5	7.6	—	—	11.1	9.9	11.3	
Non-MSA	—	—	—	—	—	—	—	—	—	—	—	17.1	17.5	16.1	11.7	—	—	16.9	15.0	14.7	
<b>Parental Education <sup>b</sup></b>																					
1.0–2.0 (Low)	—	—	—	—	—	—	—	—	—	—	—	8.6	11.7	10.7	5.3	—	—	14.9	7.0	12.3	
2.5–3.0	—	—	—	—	—	—	—	—	—	—	—	14.4	11.5	10.7	7.0	—	—	12.4	11.6	12.9	
3.5–4.0	—	—	—	—	—	—	—	—	—	—	—	11.5	12.1	10.6	9.0	—	—	12.4	10.8	9.8	
4.5–5.0	—	—	—	—	—	—	—	—	—	—	—	10.4	11.7	11.8	10.2	—	—	8.0	13.3	11.1	
5.5–6.0 (High)	—	—	—	—	—	—	—	—	—	—	—	7.7	8.1	7.2	8.4	—	—	10.6	7.8	10.2	
<b>Race/Ethnicity (2-year average) <sup>c</sup></b>																					
White	—	—	—	—	—	—	—	—	—	—	—	—	12.9	12.0	10.6	—	—	—	13.8	13.8	
African American	—	—	—	—	—	—	—	—	—	—	—	—	2.1	4.5	4.5	—	—	—	2.0	1.9	
Hispanic	—	—	—	—	—	—	—	—	—	—	—	—	4.4	5.2	5.1	—	—	—	6.0	5.4	

(Table continued on next page.)

**TABLE 124 (cont.)**  
**SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 30 days																		2012– 2013 change																				
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		2013																			
	<i>Approximate weighted N =</i>																																						
Total	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	12.2	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	+0.2
Gender:																																							
Male																																							
Female																																							
College Plans:																																							
None or under 4 years																																							
Complete 4 years																																							
Region:																																							
Northeast																																							
Midwest																																							
South																																							
West																																							
Population Density:																																							
Large MSA																																							
Other MSA																																							
Non-MSA																																							
Parental Education: <sup>b</sup>																																							
1.0–2.0 (Low)																																							
2.5–3.0																																							
3.5–4.0																																							
4.5–5.0																																							
5.5–6.0 (High)																																							
Race/Ethnicity (2-year average): <sup>c</sup>																																							
White																																							
African American																																							
Hispanic																																							

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms;  $N$  is one sixth of  $N$  indicated in Table S3. In 2011 snus and dissolvable tobacco were added to the list of examples.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Prevalence of smokeless tobacco use was not asked of 12th graders in 1990 and 1991. Prior to 1990 the prevalence-of-use question on smokeless tobacco was located near the end of one 12th-grade questionnaire form, whereas after 1991 the question was placed earlier and in a different form. This shift could explain the discontinuities between the corresponding data.

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 125**  
**SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 8**

	Percentage who used daily in last 30 days																							2012– 2013 change	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
Approximate weighted N =	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600		
Total	1.6	1.8	1.5	1.9	1.2	1.5	1.0	1.0	0.9	0.9	1.2	0.8	0.8	1.0	0.7	0.7	0.8	0.8	0.8	0.9	0.8	0.5	0.5	0.0	
<b>Gender:</b>																									
Male	3.1	3.4	2.9	3.2	2.2	2.9	1.7	1.8	1.6	1.5	2.5	1.5	1.4	1.7	1.2	1.1	1.6	1.2	1.4	1.5	1.5	0.8	0.9	+0.1	
Female	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.1	0.2	0.2	0.3	0.2	0.3	0.1	0.4	0.3	0.3	0.2	0.1	0.1	-0.1	
<b>College Plans:</b>																									
None or under 4 years	4.1	5.6	4.4	5.4	3.5	5.1	3.6	6.1	3.8	2.7	4.5	4.5	4.0	3.8	2.4	4.0	3.2	5.0	2.5	4.0	3.6	2.3	1.9	-0.4	
Complete 4 years	1.2	1.2	1.1	1.4	0.9	1.0	0.6	0.5	0.5	0.7	0.9	0.5	0.5	0.7	0.5	0.4	0.6	0.4	0.7	0.6	0.6	0.4	0.4	0.0	
<b>Region:</b>																									
Northeast	1.2	0.9	0.6	0.8	0.6	0.8	0.6	0.4	0.1	0.4	0.7	0.6	0.8	1.0	0.1	0.6	0.2	0.9	1.1	0.7	0.7	0.5	0.1	-0.4	
Midwest	1.5	1.6	1.6	1.4	1.1	2.0	1.2	1.3	0.9	1.3	1.1	1.1	0.6	0.6	0.3	0.5	0.5	0.4	0.6	0.9	0.6	0.2	0.4	+0.2	
South	2.4	3.0	2.2	3.3	1.8	2.0	1.5	1.3	1.6	1.3	2.1	1.0	1.3	1.7	1.4	1.1	1.5	1.3	1.3	1.5	1.1	0.7	0.9	+0.1	
West	0.6	0.8	1.0	0.9	0.8	0.8	0.2	0.7	0.3	0.2	0.1	0.2	0.2	0.3	0.2	0.4	0.4	0.3	0.1	0.2	0.4	0.5	0.3	-0.2	
<b>Population Density:</b>																									
Large MSA	0.5	0.6	0.7	0.7	0.4	0.4	0.5	0.4	0.3	0.2	0.3	0.4	0.7	0.4	*	0.3	0.4	0.4	0.5	0.4	0.2	0.2	0.1	-0.1	
Other MSA	1.2	1.9	1.5	1.0	0.9	1.2	0.8	0.6	0.8	0.8	0.8	0.6	0.6	0.6	0.5	0.6	0.7	0.7	0.6	1.1	0.8	0.5	0.5	-0.1	
Non-MSA	3.3	2.8	2.5	4.6	2.6	3.4	1.6	2.6	1.8	2.0	2.9	1.8	1.5	2.6	1.9	1.6	1.7	1.5	1.7	1.1	1.7	1.0	1.2	+0.1	
<b>Parental Education:<sup>a</sup></b>																									
1.0–2.0 (Low)	2.8	3.5	2.0	3.0	2.2	1.5	3.2	2.6	0.9	1.4	1.8	2.2	1.8	2.8	1.4	1.3	1.9	1.5	1.6	1.0	1.6	0.3	0.9	+0.6	
2.5–3.0	2.2	2.6	1.9	2.7	1.7	3.1	1.1	1.5	1.6	1.4	2.1	1.0	1.0	1.1	0.5	0.9	1.0	1.3	0.9	1.9	0.9	0.6	0.8	+0.2	
3.5–4.0	1.4	1.2	1.8	1.9	1.2	1.7	0.9	1.3	0.8	1.3	0.3	1.0	0.8	0.8	0.8	0.7	0.8	0.8	1.3	0.8	0.9	1.0	0.6	-0.4	
4.5–5.0	0.8	1.3	1.1	1.1	0.9	0.3	0.8	0.5	0.5	0.4	0.5	0.3	0.2	0.7	0.8	0.6	0.6	0.3	0.4	0.4	0.7	0.3	0.3	0.0	
5.5–6.0 (High)	1.0	0.9	0.6	0.7	0.8	0.8	0.4	0.5	0.4	0.4	1.7	0.9	1.1	0.8	0.4	0.5	0.5	0.6	0.2	0.2	0.1	0.2	0.2	-0.1	
<b>Race/Ethnicity (2-year average):<sup>b</sup></b>																									
White	—	2.0	2.0	2.0	1.9	1.7	1.5	1.2	1.1	1.1	1.2	1.0	0.7	0.9	0.9	0.7	0.9	0.9	0.9	1.0	1.0	0.9	0.7	-0.2	
African American	—	0.3	0.4	0.7	0.6	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.2	0.5	0.5	0.7	1.0	0.7	0.5	0.3	0.3	-0.1	
Hispanic	—	0.8	0.9	0.9	0.7	1.1	0.9	0.8	1.0	0.8	0.8	0.8	0.9	0.9	0.4	0.5	0.5	0.4	0.3	0.4	0.4	0.3	0.1	-0.1	

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. ' \* ' indicates less than 0.05% but greater than 0%. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996 and on two of four forms beginning in 1997; N is one half of N indicated in Table S1.

<sup>a</sup>Parental education is an average score of mother’s education and father’s education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.



**TABLE 126**  
**SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 10**

		Percentage who used daily in last 30 days																							2012– 2013 change
		1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Approximate weighted N =		14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total		3.3	3.0	3.3	3.0	2.7	2.2	2.2	2.2	1.5	1.9	2.2	1.7	1.8	1.6	1.9	1.7	1.6	1.4	1.9	2.5	1.7	2.0	1.9	-0.2
Gender:																									
Male		6.3	6.3	6.4	5.9	5.2	4.2	4.0	4.3	3.2	3.9	4.5	3.0	3.7	3.0	3.4	3.3	2.9	2.6	3.7	4.7	3.3	3.9	3.5	-0.4
Female		0.2	0.1	0.3	0.2	0.2	0.2	0.3	0.3	0.1	0.2	0.3	0.2	0.1	0.2	0.3	*	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.0
College Plans:																									
None or under 4 years		7.6	8.5	8.8	6.5	7.8	5.4	6.3	6.4	3.6	5.9	6.6	4.6	4.8	5.0	5.4	6.8	4.4	6.2	7.7	8.2	5.2	6.2	7.6	+1.4
Complete 4 years		2.3	1.9	2.2	2.2	1.9	1.6	1.5	1.5	1.2	1.2	1.5	1.0	1.3	1.1	1.3	1.0	1.2	0.8	1.3	1.8	1.3	1.6	1.2	-0.4
Region:																									
Northeast		1.8	1.0	1.7	3.0	2.0	1.3	1.5	1.2	1.2	0.9	1.1	0.8	1.6	2.1	1.3	0.8	1.4	0.5	1.5	2.3	1.2	1.2	1.7	+0.5
Midwest		3.1	2.9	2.5	2.4	2.5	2.1	1.4	2.1	2.0	2.1	2.1	1.3	1.3	0.8	1.7	2.2	1.6	2.4	2.8	2.3	1.7	2.5	1.7	-0.8
South		4.7	4.5	5.2	3.3	4.1	3.3	3.5	3.8	2.0	2.8	3.6	2.6	3.0	2.6	2.8	2.3	2.6	2.1	2.3	3.7	2.4	2.9	2.7	-0.2
West		2.7	2.9	3.1	3.6	1.1	1.0	1.7	0.8	0.7	1.0	0.9	1.1	0.8	0.6	1.2	0.9	0.4	0.2	0.6	0.8	0.9	0.9	1.0	+0.1
Population Density:																									
Large MSA		1.5	1.6	1.1	1.0	1.5	0.6	0.8	1.0	0.8	1.6	0.8	1.3	1.2	0.8	0.8	1.1	1.0	0.7	1.0	1.4	1.2	0.7	1.1	+0.4
Other MSA		3.1	2.8	3.2	3.5	2.3	2.3	1.7	1.5	1.0	1.0	1.7	1.4	1.5	1.3	1.4	1.4	1.5	1.1	1.9	2.6	1.0	1.7	1.5	-0.2
Non-MSA		5.0	4.9	5.3	4.2	4.9	3.6	4.6	5.0	3.5	3.8	5.0	2.6	3.5	3.4	4.2	3.2	2.6	3.2	3.1	3.8	3.5	4.5	3.7	-0.7
Parental Education: <sup>a</sup>																									
1.0–2.0 (Low)		2.5	3.9	4.1	3.2	3.6	1.7	3.8	2.6	1.7	2.4	3.8	1.7	1.7	1.5	2.0	3.6	2.0	1.0	2.9	2.5	2.0	1.5	1.1	-0.4
2.5–3.0		4.8	5.0	4.3	3.8	3.4	3.4	2.0	2.8	1.7	2.3	3.2	1.2	2.1	1.8	2.6	2.9	2.1	1.7	2.3	3.4	2.8	3.4	3.0	-0.4
3.5–4.0		3.3	2.8	3.1	3.0	2.8	1.4	2.4	2.7	1.6	1.6	1.5	2.0	1.9	2.4	2.0	1.3	1.6	1.9	2.2	3.0	1.4	2.2	2.0	-0.1
4.5–5.0		2.5	1.7	2.5	2.7	2.9	2.3	1.7	1.8	1.6	1.9	1.9	1.5	1.7	0.7	1.7	1.1	1.4	1.3	1.3	1.7	1.4	1.7	1.2	-0.5
5.5–6.0 (High)		2.5	1.6	2.7	1.7	1.0	1.4	1.9	0.7	0.8	0.8	1.9	1.3	1.4	0.9	1.2	1.3	1.1	0.1	1.7	2.0	1.4	1.3	1.1	-0.2
Race/Ethnicity (2-year average): <sup>b</sup>																									
White		—	3.8	3.9	3.8	3.3	2.9	2.5	2.7	2.4	2.1	2.4	2.3	2.1	2.1	2.1	2.2	2.1	2.1	2.4	3.1	2.8	2.4	2.7	+0.3
African American		—	0.5	0.4	0.6	0.5	0.4	0.4	0.4	0.3	0.4	0.9	0.8	0.4	0.6	0.8	0.8	0.6	0.4	0.4	0.6	0.9	0.8	0.7	-0.2
Hispanic		—	1.1	1.0	0.8	1.2	1.2	1.3	1.3	0.8	0.8	1.0	0.5	0.4	0.9	1.0	0.7	0.3	0.2	0.4	0.5	0.7	0.9	0.5	-0.4

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

Notes: Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. ' — ' indicates data not available. ' \* ' indicates less than 0.05% but greater than 0%. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of two forms in 1991–1996 and on two of four forms beginning in 1997; *N* is one half of *N* indicated in Table S2.

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 127**  
**SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 12**

	Percentage who used daily in last 30 days																			→ (Years cont.)
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990 <sup>a</sup>	1991 <sup>a</sup>	1992	1993	
<i>Approximate weighted N =</i>	—	—	—	—	—	—	—	—	—	—	—	15,200	16,300	16,300	16,700	—	—	15,800	16,300	15,400
Total	—	—	—	—	—	—	—	—	—	—	—	4.7	5.1	4.3	3.3	—	—	4.3	3.3	3.9
Gender:																				
Male	—	—	—	—	—	—	—	—	—	—	—	10.0	10.7	8.6	6.8	—	—	7.8	6.4	7.2
Female	—	—	—	—	—	—	—	—	—	—	—	0.1	0.1	0.5	0.0	—	—	0.5	0.4	0.3
College Plans:																				
None or under 4 years	—	—	—	—	—	—	—	—	—	—	—	7.1	7.8	5.8	4.2	—	—	7.4	4.3	6.6
Complete 4 years	—	—	—	—	—	—	—	—	—	—	—	3.3	3.7	3.5	2.7	—	—	3.3	3.1	2.8
Region:																				
Northeast	—	—	—	—	—	—	—	—	—	—	—	4.6	2.1	2.3	1.3	—	—	1.8	1.9	4.5
Midwest	—	—	—	—	—	—	—	—	—	—	—	4.5	4.5	3.5	2.2	—	—	4.0	4.4	4.7
South	—	—	—	—	—	—	—	—	—	—	—	6.1	7.4	6.3	4.2	—	—	5.4	4.0	3.5
West	—	—	—	—	—	—	—	—	—	—	—	2.9	5.5	4.0	4.9	—	—	5.1	1.7	3.2
Population Density:																				
Large MSA	—	—	—	—	—	—	—	—	—	—	—	3.4	3.3	3.0	3.0	—	—	2.0	1.7	2.0
Other MSA	—	—	—	—	—	—	—	—	—	—	—	3.3	4.3	2.5	2.8	—	—	4.2	3.0	3.6
Non-MSA	—	—	—	—	—	—	—	—	—	—	—	7.8	8.5	8.9	4.6	—	—	6.5	5.2	6.7
Parental Education: <sup>b</sup>																				
1.0–2.0 (Low)	—	—	—	—	—	—	—	—	—	—	—	1.9	5.6	5.3	1.8	—	—	6.7	3.9	6.6
2.5–3.0	—	—	—	—	—	—	—	—	—	—	—	7.6	6.9	3.2	3.9	—	—	4.8	3.5	3.8
3.5–4.0	—	—	—	—	—	—	—	—	—	—	—	3.5	4.7	5.4	3.1	—	—	5.2	3.3	3.3
4.5–5.0	—	—	—	—	—	—	—	—	—	—	—	3.9	5.0	4.7	4.6	—	—	2.4	3.7	3.9
5.5–6.0 (High)	—	—	—	—	—	—	—	—	—	—	—	3.3	2.1	3.5	1.2	—	—	2.6	1.8	2.7
Race/Ethnicity (2-year average): <sup>c</sup>																				
White	—	—	—	—	—	—	—	—	—	—	—	—	5.8	5.4	4.5	—	—	—	4.8	4.7
African American	—	—	—	—	—	—	—	—	—	—	—	—	0.6	1.0	0.5	—	—	—	0.3	0.7
Hispanic	—	—	—	—	—	—	—	—	—	—	—	—	0.8	2.1	2.1	—	—	—	1.6	0.7

(Table continued on next page.)

**TABLE 127 (cont.)**  
**SMOKELESS TOBACCO: Trends in 30-Day Prevalence of Daily Use by Subgroups in Grade 12**

	Percentage who used daily in last 30 days																			2012– 2013 change
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Approximate weighted N =	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
Total	3.6	3.3	4.4	3.2	2.9	3.2	2.8	2.0	2.2	2.8	2.5	2.2	2.8	2.7	2.9	3.1	3.1	3.2	3.0	-0.2
Gender:																				
Male	7.2	7.1	8.6	6.0	5.7	6.5	5.6	4.3	4.6	5.6	4.7	4.3	5.6	5.6	5.8	5.9	6.0	5.7	5.7	0.0
Female	0.1	0.1	0.2	0.0	0.0	0.4	0.3	0.0	0.0	0.2	0.2	0.1	0.2	0.0	0.4	0.2	0.0	0.3	0.0	-0.3
College Plans:																				
None or under 4 years	6.5	6.8	9.1	6.5	3.4	7.9	4.7	2.4	5.3	5.0	7.1	6.1	5.3	6.6	6.4	7.5	7.8	8.4	7.8	-0.5
Complete 4 years	2.7	2.6	2.7	2.3	2.6	2.0	2.1	1.4	1.4	2.0	1.5	1.2	2.1	1.9	2.3	2.1	2.2	2.0	1.8	-0.1
Region:																				
Northeast	2.2	3.2	3.5	0.5	1.0	1.3	1.5	1.6	2.7	1.9	2.1	1.9	1.9	1.8	2.1	2.4	3.8	3.2	1.6	-1.6
Midwest	4.9	4.1	7.0	4.0	3.4	5.0	2.8	2.2	1.1	3.0	3.8	2.1	3.9	3.1	4.4	5.3	4.1	3.7	4.9	+1.3
South	4.2	3.1	3.6	4.6	4.0	4.0	3.8	2.4	2.6	3.7	2.7	3.0	4.2	2.7	3.7	3.7	2.9	4.3	2.9	-1.4
West	1.6	2.9	3.0	1.8	1.9	1.6	2.6	1.3	2.2	1.7	1.0	1.0	0.1	3.0	0.7	0.6	1.9	1.3	2.2	+0.8
Population Density:																				
Large MSA	2.1	2.6	3.3	0.9	0.5	0.9	1.4	0.4	0.5	0.8	1.0	1.4	1.6	0.5	0.9	0.9	1.6	2.1	1.4	-0.7
Other MSA	3.2	1.9	3.3	2.4	3.1	3.7	2.6	2.0	2.2	2.2	2.4	1.6	2.4	2.1	2.4	2.0	2.9	1.9	2.3	+0.4
Non-MSA	5.8	6.7	7.7	7.6	4.9	5.3	5.0	3.8	4.2	6.2	4.8	4.4	5.8	6.8	6.7	9.2	5.9	8.1	7.0	-1.1
Parental Education: <sup>b</sup>																				
1.0–2.0 (Low)	2.7	2.2	1.3	2.2	2.1	2.9	4.0	2.2	4.9	3.0	2.2	1.3	2.5	0.7	1.2	2.2	0.8	3.1	2.0	-1.1
2.5–3.0	4.7	3.6	5.8	5.2	3.7	4.2	3.2	1.7	1.4	4.2	3.5	3.3	3.8	3.4	3.5	3.9	4.7	5.9	3.0	-2.9
3.5–4.0	2.9	3.6	3.7	2.6	3.5	3.9	2.8	2.1	2.0	2.0	3.7	1.7	2.7	2.9	2.5	2.9	2.9	3.1	3.0	-0.1
4.5–5.0	3.5	4.6	3.9	3.0	1.9	2.1	2.7	2.4	2.8	2.6	1.8	2.6	3.1	2.7	3.5	3.2	3.5	2.3	3.7	+1.5
5.5–6.0 (High)	2.7	1.1	5.0	2.5	2.1	2.5	2.5	0.2	1.8	1.9	0.4	1.3	1.8	2.2	3.1	2.8	0.8	1.9	1.5	-0.4
Race/Ethnicity (2-year average): <sup>c</sup>																				
White	4.6	4.1	5.0	5.2	4.3	4.3	4.4	3.5	2.9	3.2	3.5	3.4	3.4	3.8	4.5	4.7	4.6	4.6	4.3	-0.3
African American	0.6	0.3	0.2	0.0	0.0	0.1	0.2	0.1	0.0	0.0	0.0	0.2	0.8	0.9	0.6	1.5	1.4	0.3	0.6	+0.2
Hispanic	1.2	2.2	1.9	0.8	0.4	0.9	0.6	0.3	0.7	1.1	0.7	0.4	0.7	0.6	0.2	0.4	0.5	0.5	0.4	-0.1

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms;  $N$  is one sixth of  $N$  indicated in Table S3.

**Caution:** Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

<sup>a</sup>Prevalence of smokeless tobacco use was not asked of 12th graders in 1990 and 1991. Prior to 1990 the prevalence-of-use question on smokeless tobacco was located near the end of one 12th-grade questionnaire form, whereas after 1991 the question was placed earlier and in a different form. This shift could explain the discontinuities between the corresponding data.

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 128**  
**DISSOLVABLE TOBACCO PRODUCTS: Trends in Annual**  
**Prevalence of Use by Subgroups in Grades 8, 10, and 12**

	Percentage who used in last 12 months												
	8th Graders				10th Graders				12th Graders				
	1991– <u>2011</u>	<u>2012</u>	<u>2013</u>	2012– 2013 <u>change</u>	1991– <u>2011</u>	<u>2012</u>	<u>2013</u>	2012– 2013 <u>change</u>	2009– <u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	2012– 2013 <u>change</u>
Approximate weighted N =	—	15,100	14,600		—	15,000	12,900		—	14,100	13,700	12,600	
Total	—	1.0	1.1	+0.1	—	1.6	1.2	-0.4	—	1.5	1.6	1.9	+0.2
Gender:													
Male	—	0.8	1.5	+0.7	—	2.3	2.0	-0.3	—	1.8	2.4	3.3	+0.9
Female	—	1.0	0.8	-0.3	—	0.9	0.6	-0.3	—	1.0	0.4	0.5	+0.1
College Plans:													
None or under 4 years	—	4.4	4.5	+0.2	—	5.6	2.8	-2.8	—	3.0	1.7	3.9	+2.2
Complete 4 years	—	0.8	0.9	+0.1	—	1.2	1.0	-0.1	—	1.1	1.6	1.3	-0.3
Region:													
Northeast	—	0.3	0.5	+0.2	—	0.5	1.0	+0.5	—	1.3	1.4	1.3	-0.2
Midwest	—	0.8	0.4	-0.4	—	1.7	1.2	-0.5	—	0.5	0.8	2.0	+1.2
South	—	1.4	1.7	+0.3	—	1.7	1.6	-0.1	—	2.4	2.2	1.5	-0.7
West	—	1.1	1.3	+0.3	—	2.1	0.9	-1.2 s	—	1.5	2.0	2.7	+0.7
Population Density:													
Large MSA	—	1.2	1.0	-0.2	—	1.4	0.8	-0.6	—	1.7	1.7	1.8	+0.1
Other MSA	—	0.7	1.1	+0.3	—	1.5	1.0	-0.5	—	1.4	1.4	1.6	+0.1
Non-MSA	—	1.3	1.3	-0.1	—	1.9	2.2	+0.2	—	1.5	2.1	2.7	+0.6
Parental Education: <sup>a</sup>													
1.0–2.0 (Low)	—	1.2	2.6	+1.4	—	2.2	1.4	-0.8	—	0.6	1.1	3.8	+2.7
2.5–3.0	—	1.3	0.7	-0.6	—	2.2	2.0	-0.2	—	2.7	2.5	1.0	-1.5
3.5–4.0	—	1.4	1.7	+0.3	—	2.3	1.0	-1.3 s	—	1.1	1.6	2.3	+0.7
4.5–5.0	—	0.7	0.7	0.0	—	0.6	1.1	+0.5	—	0.5	1.3	1.5	+0.1
5.5–6.0 (High)	—	0.6	0.8	+0.2	—	1.1	0.9	-0.1	—	1.9	0.7	1.7	+1.0
Race/Ethnicity (2-year data): <sup>b</sup>													
White	—	—	0.8	—	—	—	1.4	—	—	—	1.6	1.8	+0.2
African American	—	—	1.2	—	—	—	0.8	—	—	—	1.5	1.8	+0.3
Hispanic	—	—	1.7	—	—	—	1.4	—	—	—	1.0	1.4	+0.4

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

Notes. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Tables S1, S2, and S3 for the number of subgroup cases. See appendix B for definition of variables in table. For 8th and 10th graders only: Data based on one of four forms; N is one third of N indicated in S1 and S2. For 12th graders only: Data based on one of six forms; N is one sixth of N indicated in Table S3.

**Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.**

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 129**  
**SNUS: Trends in Annual Prevalence of Use**  
**by Subgroups in Grades 8, 10, and 12**

	Percentage who used in last 12 months												
	8th Graders				10th Graders				12th Graders				
	1991– 2011	2012 2012	2013 2013	2012– 2013 change	1991– 2011	2012 2012	2013 2013	2012– 2013 change	1975– 2010	2011 2011	2012 2012	2013 2013	2012– 2013 change
<i>Approximate weighted N =</i>	—	15,100	14,600		—	15,000	12,900		—	14,100	13,700	12,600	
Total	—	2.4	2.0	-0.4	—	6.9	5.2	-1.7 s	—	7.9	7.9	7.7	-0.2
Gender:													
Male	—	3.3	3.3	-0.1	—	12.1	9.3	-2.8 s	—	13.9	14.1	14.6	+0.5
Female	—	1.5	0.8	-0.7	—	2.1	1.3	-0.8	—	1.9	1.2	1.4	+0.2
College Plans:													
None or under 4 years	—	9.0	7.4	-1.7	—	17.5	16.0	-1.5	—	15.1	12.2	13.6	+1.4
Complete 4 years	—	2.0	1.6	-0.3	—	5.8	4.0	-1.8 ss	—	6.2	6.6	6.1	-0.6
Region:													
Northeast	—	1.8	1.1	-0.7	—	6.2	5.5	-0.8	—	7.8	8.0	7.3	-0.7
Midwest	—	2.0	1.2	-0.8	—	7.8	6.7	-1.1	—	10.6	8.3	8.3	0.0
South	—	3.4	3.3	-0.1	—	8.4	5.0	-3.4 s	—	6.4	8.8	8.9	+0.1
West	—	1.6	1.4	-0.2	—	4.2	3.8	-0.4	—	7.1	6.2	5.5	-0.6
Population Density:													
Large MSA	—	1.2	1.6	+0.4	—	4.1	3.1	-1.0	—	6.9	6.1	6.7	+0.7
Other MSA	—	2.4	1.8	-0.6	—	7.4	4.8	-2.6 s	—	6.5	7.8	7.9	+0.1
Non-MSA	—	4.5	3.0	-1.6	—	9.6	8.9	-0.7	—	12.2	10.8	8.6	-2.2
Parental Education: <sup>a</sup>													
1.0–2.0 (Low)	—	2.2	3.0	+0.7	—	4.9	4.8	-0.1	—	2.9	4.8	9.2	+4.3
2.5–3.0	—	3.9	2.0	-1.9	—	8.5	6.9	-1.6	—	8.8	8.9	5.7	-3.2
3.5–4.0	—	3.9	3.0	-0.9	—	8.3	6.2	-2.1	—	9.4	6.8	9.7	+2.9
4.5–5.0	—	1.5	1.4	-0.1	—	6.3	3.4	-2.9 ss	—	8.1	10.0	7.5	-2.6
5.5–6.0 (High)	—	1.1	1.3	+0.2	—	5.4	4.7	-0.7	—	5.4	6.2	6.7	+0.5
Race/Ethnicity (2-year data): <sup>b</sup>													
White	—	—	2.7	—	—	—	8.1	—	—	—	10.2	9.9	-0.3
African American	—	—	0.9	—	—	—	1.6	—	—	—	3.4	3.3	-0.1
Hispanic	—	—	1.8	—	—	—	2.6	—	—	—	4.4	4.6	+0.2

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

*Notes.* '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding.  
 See Tables S1, S2, and S3 for the number of subgroup cases. See appendix B for definition of variables in table. For 8th and 10th graders only: Data based on one of four forms; N is one third of N indicated in S1 and S2. For 12th graders only: Data based on two of six forms; N is two sixths of N indicated in Table S3.

**Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.**

<sup>a</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>b</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 130**  
**STEROIDS:<sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 8**

	Percentage who used in last 12 months																							2012– 2013 <u>change</u>
	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	
<i>Approximate weighted N =</i>	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Total	1.0	1.1	0.9	1.2	1.0	0.9	1.0	1.2	1.7	1.7	1.6	1.5	1.4	1.1	1.1	0.9	0.8	0.9	0.8	0.5	0.7	0.6	0.6	0.0
Gender:																								
Male	1.8	1.7	1.4	1.8	1.3	1.1	1.3	1.6	2.5	2.2	2.3	1.8	1.8	1.3	1.2	1.2	1.1	1.2	1.0	0.7	1.0	0.8	0.7	-0.1
Female	0.3	0.5	0.3	0.6	0.8	0.7	0.7	0.7	0.9	1.0	1.0	1.2	1.1	1.0	0.9	0.6	0.4	0.5	0.5	0.3	0.4	0.3	0.4	+0.2
College Plans:																								
None or under 4 years	2.2	2.4	2.2	2.5	2.2	1.5	2.4	2.8	4.0	3.6	3.1	3.6	2.7	3.2	2.4	2.4	2.7	2.3	2.2	1.4	1.4	1.4	1.6	+0.2
Complete 4 years	0.8	0.9	0.7	1.0	0.9	0.8	0.8	1.0	1.4	1.5	1.5	1.3	1.3	0.9	0.9	0.7	0.6	0.8	0.7	0.5	0.7	0.5	0.5	0.0
Region:																								
Northeast	0.7	1.1	0.6	1.0	1.0	1.1	1.0	1.1	1.6	1.7	1.8	1.2	1.1	0.8	0.6	0.6	0.5	0.8	0.8	0.5	0.5	0.5	0.6	+0.1
Midwest	1.1	1.2	1.0	1.0	1.1	0.8	1.0	1.2	1.6	1.8	1.7	1.6	1.7	1.2	1.1	0.8	0.7	0.9	0.7	0.7	0.9	0.5	0.3	-0.2
South	1.2	1.1	1.0	1.6	1.1	0.9	0.9	1.4	1.9	1.8	1.9	1.9	1.6	1.3	1.3	1.1	1.0	1.1	0.7	0.5	0.8	0.8	0.8	0.0
West	0.7	0.9	0.7	1.0	1.0	0.8	1.1	0.9	1.4	1.3	0.9	1.2	1.2	1.0	1.0	0.7	0.8	0.6	0.9	0.4	0.6	0.5	0.5	0.0
Population Density:																								
Large MSA	0.8	1.0	0.8	0.9	0.9	0.8	0.9	1.0	1.3	1.6	1.6	1.1	1.0	1.0	0.8	0.8	0.7	0.8	0.4	0.4	0.3	0.6	0.6	-0.1
Other MSA	1.2	1.2	0.9	1.2	1.2	0.9	0.9	1.2	1.9	1.5	1.7	1.6	1.5	1.1	1.1	0.8	0.8	0.9	0.9	0.7	0.8	0.6	0.6	0.0
Non-MSA	1.0	0.9	0.9	1.5	0.9	0.9	1.2	1.4	1.7	2.0	1.6	2.1	1.8	1.3	1.3	1.2	1.0	1.0	0.9	0.4	1.2	0.6	0.7	+0.1
Parental Education: <sup>b</sup>																								
1.0–2.0 (Low)	1.8	1.2	1.2	1.6	1.3	0.9	1.4	1.7	2.2	2.5	2.0	1.8	1.3	1.5	2.1	1.0	1.7	1.7	2.1	0.7	1.0	0.6	0.6	0.0
2.5–3.0	1.1	1.2	0.8	1.6	1.3	0.7	0.9	1.1	1.9	2.1	1.6	1.7	1.9	1.4	1.0	0.9	0.9	1.0	0.7	0.5	0.9	0.6	0.7	+0.1
3.5–4.0	1.0	1.0	1.1	1.3	0.8	0.9	1.2	1.4	1.6	1.3	1.9	1.9	1.6	1.0	1.1	1.0	0.8	1.0	0.9	0.5	0.9	0.4	0.6	+0.3
4.5–5.0	0.7	0.9	0.8	0.8	0.8	1.2	0.9	1.1	1.4	1.6	1.5	1.0	1.3	1.2	1.1	0.7	0.4	0.7	0.5	0.6	0.5	0.5	0.3	-0.2
5.5–6.0 (High)	1.0	1.3	0.6	0.9	1.5	0.9	1.2	1.1	2.0	1.6	1.7	1.6	1.0	0.7	0.7	1.1	0.8	0.8	0.6	0.5	0.8	0.9	0.8	0.0
Race/Ethnicity (2-year average): <sup>c</sup>																								
White	—	1.1	1.0	1.0	1.1	0.9	0.9	1.1	1.5	1.9	1.8	1.7	1.6	1.3	1.0	0.9	0.8	0.8	0.7	0.5	0.5	0.6	0.5	-0.2
African American	—	0.7	0.6	0.8	0.9	0.7	0.6	0.7	0.8	0.7	0.8	1.2	1.2	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.5	0.7	0.8	+0.1
Hispanic	—	1.2	1.1	1.1	1.3	1.5	1.4	1.4	1.8	1.8	1.5	1.5	1.7	1.7	1.2	0.9	0.7	0.7	0.9	0.8	0.7	0.4	0.5	+0.1

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

*Notes.* Level of significance of difference between the two most recent classes: *s* = .05, *ss* = .01, *sss* = .001. ' — ' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S1 for the number of subgroup cases. See appendix B for definition of variables in table. In 2006 the question text was changed slightly in half of the questionnaire forms. An examination of the data did not show any effect from the wording change. In 2007 the remaining forms were changed in a like manner. In 2008 the question text was changed slightly in half of the questionnaire forms. An examination of the data did not show any effect from the wording change. In 2009 the remaining forms were changed in a like manner.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 131**  
**STEROIDS: <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 10**

	Percentage who used in last 12 months																							2012–2013
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	change
Approximate weighted N =	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Total	1.1	1.1	1.0	1.1	1.2	1.2	1.2	1.2	1.7	2.2	2.1	2.2	1.7	1.5	1.3	1.2	1.1	0.9	0.8	1.0	0.9	0.8	0.8	0.0
Gender																								
Male	1.9	1.9	1.7	1.9	2.0	1.7	1.8	1.9	2.8	3.6	3.3	3.2	2.3	2.3	1.8	1.9	1.7	1.4	1.2	1.3	1.4	1.3	1.3	-0.1
Female	0.3	0.3	0.3	0.4	0.5	0.6	0.6	0.6	0.7	0.8	1.0	1.2	1.1	0.9	0.7	0.5	0.4	0.5	0.4	0.5	0.4	0.4	0.5	+0.1
College Plans																								
None or under 4 years	1.7	1.3	1.9	2.1	2.1	2.1	2.4	1.9	2.6	3.6	3.2	3.0	2.7	2.9	1.9	2.3	1.9	2.6	1.6	2.6	2.1	2.3	1.2	-1.0
Complete 4 years	0.9	1.0	0.8	0.9	1.1	1.0	1.0	1.1	1.6	1.9	1.9	2.1	1.5	1.4	1.2	1.1	0.9	0.7	0.7	0.8	0.8	0.7	0.8	+0.1
Region																								
Northeast	1.2	0.9	1.0	1.0	1.1	1.0	0.9	1.4	2.0	1.8	1.9	2.0	1.9	1.4	1.5	0.9	1.1	0.8	1.2	1.1	0.8	0.8	1.0	+0.2
Midwest	1.0	1.1	1.2	1.1	1.2	1.4	1.2	1.1	1.8	2.1	1.5	1.8	1.9	1.4	1.2	1.2	1.2	1.0	0.7	0.7	0.8	0.7	0.8	+0.1
South	1.0	1.2	1.0	1.3	1.3	1.4	1.4	1.4	1.7	2.5	2.5	2.5	1.5	1.9	1.5	1.6	1.3	1.0	0.7	1.2	1.2	1.0	0.8	-0.2
West	1.0	1.2	0.8	1.1	1.3	0.6	1.3	0.9	1.4	2.1	2.3	2.4	1.4	1.4	0.9	0.9	0.7	0.8	0.6	0.8	0.7	0.7	0.8	+0.1
Population Density																								
Large MSA	1.5	0.9	0.8	0.8	0.8	0.8	1.0	0.8	1.2	2.3	1.9	2.1	1.4	1.2	0.9	1.0	0.8	0.7	0.9	0.9	0.6	0.9	0.9	0.0
Other MSA	1.0	1.0	0.9	1.1	1.4	1.2	1.2	1.3	1.9	2.0	2.0	2.3	1.5	1.5	1.4	1.3	1.1	1.0	0.7	0.9	1.0	0.8	0.9	0.0
Non-MSA	0.8	1.4	1.4	1.5	1.4	1.5	1.5	1.5	2.0	2.5	2.4	2.1	2.6	2.1	1.5	1.4	1.3	1.1	0.7	1.1	1.1	0.7	0.8	+0.1
Parental Education <sup>b</sup>																								
1.0–2.0 (Low)	0.7	0.9	1.5	1.8	1.2	1.7	1.7	1.3	1.2	2.3	1.6	1.6	1.9	1.5	1.8	1.4	1.0	1.5	1.0	1.5	0.5	1.1	1.0	-0.1
2.5–3.0	1.3	1.1	1.0	0.9	1.1	0.7	1.1	1.1	1.7	2.2	2.1	2.0	1.9	1.8	1.2	1.5	1.4	1.0	0.9	1.0	0.9	0.9	0.9	0.0
3.5–4.0	1.0	1.2	1.1	0.8	1.6	1.2	1.4	1.7	2.0	2.0	2.3	2.8	1.9	1.7	1.0	1.3	1.0	0.9	0.7	0.9	0.8	0.7	1.2	+0.5 s
4.5–5.0	0.9	1.0	0.8	1.4	1.1	1.2	1.0	0.9	1.5	2.4	2.0	2.0	1.6	1.5	1.5	0.9	1.1	0.8	0.7	0.7	1.1	0.9	0.5	-0.4
5.5–6.0 (High)	1.2	1.4	1.1	1.1	1.0	1.1	1.1	1.1	2.4	2.2	2.1	3.0	1.3	1.2	1.3	1.4	0.9	1.0	0.9	1.2	1.0	0.7	0.7	0.0
Race/Ethnicity (2-year average) <sup>c</sup>																								
White	—	1.0	1.0	1.0	1.2	1.3	1.3	1.3	1.5	2.1	2.3	2.4	2.3	1.8	1.6	1.3	1.2	1.0	0.8	0.7	0.8	0.8	0.8	0.0
African American	—	0.7	0.8	0.8	0.7	0.7	0.5	0.5	0.7	1.2	1.6	1.2	0.8	0.7	0.9	1.1	0.9	0.8	0.7	1.0	1.3	1.0	0.9	-0.1
Hispanic	—	1.2	1.4	1.3	0.9	1.1	1.2	1.2	1.5	1.8	2.1	2.1	1.8	1.6	1.3	1.0	0.7	1.1	1.3	0.8	0.6	0.8	0.9	0.0

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

*Notes.* Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S2 for the number of subgroup cases. See appendix B for definition of variables in table. In 2006 the question text was changed slightly in half of the questionnaire forms. An examination of the data did not show any effect from the wording change. In 2007 the remaining forms were changed in a like manner. In 2008 the question text was changed slightly in half of the questionnaire forms. An examination of the data did not show any effect from the wording change. In 2009 the remaining forms were changed in a like manner.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.

**TABLE 132**  
**STEROIDS: <sup>a</sup> Trends in Annual Prevalence of Use by Subgroups in Grade 12**

	Percentage who used in last 12 months																									2012– 2013 change	
	1975– 1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		2013
<i>Approximate weighted N =</i>	—	16,700	15,200	15,000	15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600	
Total	—	1.9	1.7	1.4	1.1	1.2	1.3	1.5	1.4	1.4	1.7	1.8	1.7	2.4	2.5	2.1	2.5	1.5	1.8	1.4	1.5	1.5	1.5	1.2	1.3	1.5	+0.2
Gender																											
Male	—	2.8	2.6	2.4	2.1	2.5	2.1	2.4	2.2	2.5	2.8	3.1	2.5	3.8	3.8	3.2	3.3	2.6	2.7	2.3	2.5	2.5	2.5	1.8	1.7	2.2	+0.5
Female	—	0.9	0.3	0.2	0.1	0.1	0.5	0.6	0.4	0.5	0.3	0.6	0.9	1.1	1.3	1.1	1.7	0.4	0.7	0.6	0.4	0.4	0.3	0.5	0.7	0.7	0.0
College Plans																											
None or under 4 years	—	2.3	2.2	2.1	2.1	2.0	1.9	2.0	2.3	2.3	2.1	3.6	2.0	4.6	4.1	2.6	2.8	2.1	2.7	2.1	3.1	2.9	3.3	1.6	1.4	2.7	+1.2
Complete 4 years	—	1.6	1.3	1.2	0.8	0.9	1.1	1.2	1.1	1.2	1.4	1.3	1.6	1.8	2.0	2.0	2.4	1.2	1.5	1.3	1.1	1.2	1.1	1.1	1.1	1.1	+0.1
Region																											
Northeast	—	2.0	1.3	1.2	0.6	1.5	1.5	1.6	1.3	2.1	0.9	1.3	1.9	4.5	2.1	3.0	3.8	1.6	2.0	1.6	2.2	1.3	1.7	1.2	1.6	1.0	-0.6
Midwest	—	1.5	1.3	1.4	1.4	0.8	2.2	1.5	2.1	2.1	2.3	1.6	2.3	1.7	2.8	1.8	2.4	1.6	1.5	1.3	1.7	1.4	1.6	0.6	0.9	1.6	+0.7
South	—	2.1	2.2	1.7	0.6	1.6	1.0	1.7	1.3	0.5	1.6	2.6	1.5	2.1	2.5	1.8	2.2	1.6	2.0	2.0	1.4	1.7	1.5	1.5	1.6	1.9	+0.3
West	—	1.9	1.7	1.0	2.3	1.1	0.8	1.0	0.3	1.6	1.7	1.2	1.1	2.1	2.4	2.2	2.0	1.0	1.5	0.5	0.9	1.4	1.1	1.5	1.0	0.9	0.0
Population Density																											
Large MSA	—	1.6	1.3	1.1	1.0	0.7	1.1	1.4	1.3	0.8	2.1	1.3	1.7	1.9	2.0	2.1	2.6	1.4	1.6	1.0	0.9	1.3	1.2	1.0	1.4	1.1	-0.3
Other MSA	—	2.3	1.5	1.4	1.4	0.9	1.5	1.3	1.3	1.7	1.5	2.0	2.0	2.9	3.0	2.1	2.9	1.4	1.6	1.5	1.4	1.7	1.5	1.4	1.2	1.1	-0.1
Non-MSA	—	1.1	2.4	1.6	0.8	2.2	1.3	2.1	1.5	1.6	1.6	1.9	1.2	2.0	2.1	2.3	1.8	1.7	2.2	1.9	2.4	1.1	1.6	1.2	1.0	2.8	+1.8 ss
Parental Education <sup>b</sup>																											
1.0–2.0 (Low)	—	0.6	1.1	2.0	2.1	1.1	2.8	1.1	1.5	3.4	3.0	1.5	1.3	2.1	3.6	2.9	4.9	2.1	2.8	3.0	2.1	1.7	1.6	2.2	1.5	3.3	+1.9
2.5–3.0	—	2.1	2.0	0.6	0.9	1.3	1.7	1.3	1.9	1.4	1.4	0.8	1.6	3.2	3.0	1.3	2.9	1.3	1.8	1.6	1.6	1.8	2.2	1.3	1.0	1.5	+0.4
3.5–4.0	—	2.6	2.3	1.6	1.3	1.5	1.1	1.1	1.3	1.1	1.1	2.5	1.9	1.9	2.8	2.7	2.5	1.7	1.7	1.1	1.3	1.6	1.6	1.5	1.1	0.8	-0.3
4.5–5.0	—	1.3	1.1	1.6	0.9	1.3	0.6	2.0	1.1	1.2	1.9	2.2	1.4	1.9	2.3	2.3	1.8	1.3	1.3	1.1	1.4	1.3	0.7	0.6	1.0	1.7	+0.7
5.5–6.0 (High)	—	2.1	1.0	0.5	0.8	0.8	1.2	1.4	1.1	1.3	1.5	1.1	2.4	2.2	1.0	1.4	2.4	1.2	1.5	1.5	1.5	0.9	1.4	0.8	1.8	0.5	-1.3 s
Race/Ethnicity (2-year average) <sup>c</sup>																											
White	—	—	1.6	1.3	1.3	1.2	1.1	1.4	1.3	1.2	1.5	1.7	1.8	2.1	2.5	2.4	2.4	2.1	1.6	1.5	1.5	1.5	1.5	1.3	1.2	1.3	+0.1
African American	—	—	1.8	1.2	0.5	1.1	1.8	1.2	1.4	1.5	0.9	0.7	1.0	1.2	1.0	1.1	1.3	1.6	1.7	1.6	1.4	1.5	1.7	1.8	1.6	1.4	-0.1
Hispanic	—	—	2.3	3.3	1.8	0.9	1.7	1.3	0.6	1.6	2.4	2.9	2.4	2.1	2.2	1.8	2.4	2.0	2.3	2.3	1.3	1.0	1.3	1.4	1.0	1.1	+0.1

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

Notes. Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. See Table S3 for the number of subgroup cases. See appendix B for definition of variables in table. Data based on one of six forms in 1989–1990; *N* is one sixth of *N* indicated in Table S3. Data based on two of six forms in 1991–2005; *N* is two sixths of *N* indicated in Table S3. Data based on three of six forms beginning in 2006; *N* is three sixths of *N* indicated in Table S3. In 2006 there were no changes in the two forms containing the original version of the question text. A slightly altered version of the question was added to a third form. An examination of the data did not show any effect from the wording change. In 2007 the forms containing the original version were changed in a like manner. In 2008 the question wording was changed slightly in two of the questionnaire forms. An examination of the data did not show any effect from the wording changes. In 2009 the remaining form was changed in a like manner.

Caution: Limited sample sizes (see Notes above). Use caution in interpreting subgroup trends.

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

<sup>b</sup>Parental education is an average score of mother's education and father's education. See appendix B for details.

<sup>c</sup>To derive percentages for each racial subgroup, data for the specified year and the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. See appendix B for details on how race/ethnicity is defined.



**TABLE S1**  
**Approximate Weighted *N*s by Subgroups in Grade 8**

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	
Total	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100	15,700	15,000	15,300	16,000	15,100	14,600	
Gender																								
Male	8,600	8,800	8,600	8,300	8,100	8,400	8,600	8,600	7,800	7,900	7,500	7,000	7,600	8,100	8,000	7,800	7,800	7,600	7,100	7,100	7,600	7,200	7,000	
Female	8,600	9,300	9,200	8,600	8,700	8,800	9,300	8,900	8,400	8,300	8,300	7,600	8,400	8,500	8,400	8,200	7,900	7,600	7,400	7,800	7,900	7,400	7,100	
College Plans																								
None or under 4 years	2,300	2,400	2,100	2,000	1,900	2,200	1,900	1,800	1,700	1,600	1,600	1,300	1,600	1,600	1,600	1,500	1,300	1,200	1,100	1,200	1,100	980	900	
Complete 4 years	14,600	15,400	15,400	14,700	14,800	14,800	15,800	15,600	14,500	14,500	14,100	13,400	14,500	15,000	14,800	14,600	14,400	14,000	13,500	13,800	14,500	13,700	13,300	
Region																								
Northeast	3,000	3,700	3,900	3,400	3,100	3,200	3,400	3,300	3,000	2,800	2,900	2,800	3,200	3,200	3,200	2,900	2,400	2,600	2,500	2,500	2,900	2,800	2,500	
Midwest	5,300	5,300	4,700	4,200	4,300	4,600	4,100	4,300	4,200	4,300	4,000	4,000	4,100	4,000	3,700	3,500	3,600	3,400	3,400	3,700	3,400	3,200	3,400	
South	6,300	6,200	6,400	6,300	6,600	6,300	7,200	6,600	6,100	6,300	5,900	5,400	6,300	6,300	6,300	6,300	6,400	5,600	5,700	5,600	6,200	5,800	5,400	
West	2,900	3,400	3,300	3,400	3,500	3,700	3,900	3,900	3,400	3,300	3,400	2,900	2,900	3,500	3,600	3,800	3,700	4,100	3,400	3,500	3,500	3,300	3,300	
Population Density																								
Large MSA	4,500	5,700	5,500	4,400	5,200	5,200	5,000	4,800	4,800	4,900	4,700	4,500	4,900	5,000	5,400	5,400	5,000	5,100	4,500	4,600	5,400	5,200	4,800	
Other MSA	8,400	8,300	8,800	8,300	7,800	8,400	9,000	8,800	7,900	7,900	7,500	6,900	7,700	7,900	7,400	7,300	7,800	7,500	7,300	7,500	7,300	6,900	6,800	
Non-MSA	4,600	4,600	4,000	4,600	4,500	4,200	4,600	4,500	4,000	3,900	4,000	3,700	3,900	4,100	4,000	3,800	3,300	3,100	3,200	3,200	3,300	3,000	3,000	
Parental Education																								
1.0–2.0 (Low)	1,400	1,700	1,700	1,600	1,500	1,500	1,500	1,300	1,300	1,300	1,300	1,100	1,100	1,200	1,400	1,400	1,400	1,300	1,200	1,400	1,300	1,300	1,400	
2.5–3.0	4,400	4,600	4,500	4,100	3,900	4,300	4,000	3,900	3,800	3,700	3,400	3,200	3,400	3,400	3,400	3,300	3,100	2,800	2,700	2,800	2,700	2,500	2,400	
3.5–4.0	4,100	4,300	4,300	4,200	4,000	4,100	4,300	4,100	3,800	3,900	4,000	3,500	3,700	4,000	3,700	3,800	3,700	3,500	3,300	3,400	3,500	3,000	2,900	
4.5–5.0	4,100	4,100	4,100	3,900	3,900	3,900	4,500	4,500	4,000	3,900	3,900	3,800	4,200	4,300	4,200	4,000	3,900	4,100	3,900	3,800	4,100	3,900	3,900	
5.5–6.0 (High)	2,200	2,300	2,300	2,200	2,300	2,200	2,600	2,700	2,200	2,200	2,100	2,100	2,400	2,500	2,600	2,300	2,300	2,300	2,100	2,200	2,700	2,600	2,400	
Race/Ethnicity (2-year average) <sup>a</sup>																								
White	—	21,900	22,000	20,900	19,800	20,200	21,400	21,300	19,800	18,900	18,600	17,600	18,400	20,400	20,500	19,500	18,300	17,300	16,400	16,000	16,700	16,300	14,800	
African American	—	4,200	4,800	5,500	5,600	5,300	4,700	4,900	5,000	4,800	4,500	4,500	4,400	3,900	3,800	4,000	3,900	4,000	4,100	4,000	3,700	3,500	3,500	
Hispanic	—	3,400	3,600	4,000	4,000	4,000	4,200	4,100	4,100	4,000	4,100	3,900	3,400	3,200	3,600	4,700	5,400	5,100	4,700	5,000	5,200	5,200	5,500	

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

Notes. '—' indicates data not available. See appendix B for definition of variables in table.

**Caution:** The *N*s in this table are based on the entire sample at each grade level. Some drug use questions are asked only in some of the questionnaire forms rather than in all, in which case these *N*s need to be adjusted appropriately. Look under Notes in each table to see if only a fraction of the sample was asked about that drug. If there is no such indication, the entire sample received the question.

<sup>a</sup>*N*s for each racial subgroup represent the combination of the specified year and the previous year. Data have been combined to increase subgroup sample sizes and thus provide more stable estimates.

See appendix B for details on how race/ethnicity is defined.

**TABLE S2**  
**Approximate Weighted *N*s by Subgroups in Grade 10**

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	
Total	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100	15,100	15,900	15,200	14,900	15,000	12,900	
Gender																								
Male	7,200	7,000	7,300	7,700	8,300	7,500	7,400	7,100	6,300	6,800	6,600	6,900	7,500	7,900	7,900	7,900	7,800	7,000	7,600	7,200	7,200	7,200	6,100	
Female	7,400	7,400	7,800	7,900	8,400	7,800	7,800	7,700	7,000	7,200	7,100	7,100	8,000	8,300	8,000	8,000	7,900	7,700	8,000	7,700	7,400	7,500	6,500	
College Plans																								
None or under 4 years	2,600	2,400	2,500	2,700	2,500	2,300	2,200	2,200	1,900	1,900	1,900	2,000	2,100	1,900	1,800	1,800	1,800	1,600	1,500	1,600	1,500	1,300	1,300	
Complete 4 years	11,900	12,000	12,400	12,800	14,200	13,000	13,000	12,500	11,500	12,100	11,900	12,100	13,400	14,300	14,100	14,100	14,000	13,200	14,100	13,400	13,200	13,400	11,400	
Region																								
Northeast	2,700	3,000	2,900	3,100	3,300	3,100	3,300	3,100	3,000	2,800	2,700	2,600	3,400	3,600	3,500	3,200	3,200	2,800	3,400	3,000	2,600	2,900	2,400	
Midwest	3,700	3,800	4,800	4,700	4,400	3,900	3,900	3,600	3,100	3,700	4,100	3,700	4,000	4,600	4,500	4,300	3,900	3,600	3,700	3,700	3,800	3,800	3,200	
South	4,900	5,000	4,900	5,200	6,100	5,600	5,500	5,200	4,700	5,000	5,000	5,100	4,900	4,900	5,000	5,300	5,100	4,800	5,200	5,200	5,100	4,900	4,100	
West	3,500	3,000	2,700	2,800	3,200	3,000	2,800	3,100	2,800	2,800	2,200	2,900	3,500	3,300	3,200	3,400	3,900	3,900	3,600	3,300	3,400	3,400	3,200	
Population Density																								
Large MSA	3,400	3,700	3,500	4,100	4,700	4,300	4,300	4,300	3,700	4,000	3,900	4,300	4,900	5,000	4,900	5,100	5,200	4,700	5,200	5,200	4,900	4,700	3,800	
Other MSA	7,400	7,300	7,600	7,500	8,200	7,500	7,300	7,000	6,700	6,700	6,700	6,800	7,800	7,800	7,600	7,900	7,600	7,300	7,300	6,600	6,600	7,100	6,400	
Non-MSA	4,000	3,800	4,200	4,200	4,100	3,800	3,900	3,700	3,200	3,600	3,400	3,200	3,100	3,600	3,700	3,200	3,300	3,100	3,400	3,400	3,400	3,200	2,700	
Parental Education																								
1.0–2.0 (Low)	1,300	1,300	1,300	1,300	1,200	1,100	1,300	1,300	1,100	1,200	1,200	1,300	1,200	1,300	1,100	1,100	1,200	1,300	1,300	1,400	1,200	1,100	1,100	
2.5–3.0	3,900	3,900	4,100	4,100	4,100	3,600	3,700	3,700	3,200	3,200	3,200	3,300	3,500	3,400	3,200	3,200	3,300	3,000	3,000	3,000	3,000	2,600	2,400	
3.5–4.0	3,900	3,900	4,100	4,300	4,600	4,300	4,100	4,000	3,600	3,700	3,700	3,700	4,200	4,200	4,100	4,300	4,400	3,800	4,000	3,800	3,900	3,800	3,100	
4.5–5.0	3,500	3,400	3,500	3,700	4,000	3,900	3,700	3,500	3,300	3,500	3,400	3,500	3,900	4,300	4,400	4,500	4,300	4,000	4,300	3,900	3,800	4,100	3,500	
5.5–6.0 (High)	1,800	1,700	1,700	1,800	2,300	1,900	1,900	1,800	1,700	1,900	1,800	1,700	2,100	2,400	2,400	2,300	2,100	2,000	2,400	2,200	2,000	2,500	2,000	
Race/Ethnicity (2-year average) <sup>a</sup>																								
White	—	19,600	20,700	22,000	22,900	22,400	20,900	19,800	18,400	18,200	18,600	18,000	18,500	19,900	20,400	21,100	20,800	18,300	17,900	18,400	17,600	17,600	16,000	
African American	—	3,900	3,600	3,300	3,300	3,100	3,200	3,600	3,600	3,100	2,800	3,400	4,600	4,600	4,300	3,900	3,400	3,600	3,600	3,400	3,200	3,100	2,900	
Hispanic	—	2,600	2,700	2,800	2,900	3,000	3,200	3,500	3,200	3,100	3,400	3,600	3,600	3,500	3,500	3,300	3,800	4,500	4,500	4,600	4,500	4,100	4,100	

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

*Notes.* '—' indicates data not available. See appendix B for definition of variables in table.

**Caution:** The *N*s in this table are based on the entire sample at each grade level. Some drug use questions are asked only in some of the questionnaire forms rather than in all, in which case these *N*s need to be adjusted appropriately. Look under Notes in each table to see if only a fraction of the sample was asked about that drug. If there is no such indication, the entire sample received the question.

<sup>a</sup>*N*s for each racial subgroup represent the combination of the specified year and the previous year. Data have been combined to increase subgroup sample sizes and thus provide more stable estimates.

See appendix B for details on how race/ethnicity is defined.

**TABLE S3**  
**Approximate Weighted *N*s by Subgroups in Grade 12**

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	→ (Years cont.)	
Total	9,400	15,400	17,100	17,800	15,500	15,900	17,500	17,700	16,300	15,900	16,000	15,200	16,300	16,300	16,700	15,200	15,000	15,800	16,300	15,400		
Gender																						
Male	4,300	6,900	7,100	8,500	7,500	7,500	8,400	8,500	7,800	7,600	7,600	7,100	7,700	7,700	8,000	7,700	7,400	7,400	7,500	6,900		
Female	5,200	7,000	7,600	9,000	8,000	7,800	8,600	8,600	8,000	7,800	8,000	7,700	8,200	8,200	8,300	7,100	7,200	7,900	8,200	8,000		
College Plans																						
None or under 4 years	—	6,500	6,700	8,100	6,800	6,300	6,700	7,200	6,300	5,900	5,600	5,100	5,000	4,700	4,800	4,200	4,000	3,700	3,700	3,400		
Complete 4 years	—	6,800	7,200	8,600	8,000	8,500	9,700	9,200	8,800	8,900	9,300	9,100	10,300	10,600	11,000	10,100	10,300	11,200	11,600	11,100		
Region																						
Northeast	2,200	3,400	3,700	4,400	3,800	3,600	4,100	4,600	3,900	3,200	3,700	3,600	3,500	3,200	3,200	3,300	2,800	2,800	2,700	2,700		
Midwest	2,900	4,500	4,600	5,200	4,800	4,700	5,300	5,200	4,600	4,500	4,400	4,300	4,400	4,300	4,500	4,200	4,000	4,400	4,600	4,000		
South	3,000	4,300	4,600	6,000	4,800	4,800	5,300	5,300	5,200	5,300	4,900	4,700	5,200	5,600	6,100	5,000	5,100	5,600	5,800	5,700		
West	1,400	2,200	2,200	2,500	2,600	2,700	2,800	2,600	2,600	2,900	3,000	2,600	3,200	3,200	2,900	2,700	3,100	3,000	3,200	3,000		
Population Density																						
Large MSA	2,100	3,700	4,000	4,600	4,000	3,900	4,500	4,800	4,200	4,100	4,200	3,700	4,200	4,400	4,000	3,800	3,600	3,600	3,700	4,300		
Other MSA	4,000	5,700	6,200	8,000	6,800	6,700	7,100	7,300	6,800	6,900	6,900	7,000	8,000	7,700	8,800	7,700	7,200	8,200	7,800	7,100		
Non-MSA	3,400	5,000	4,900	5,500	5,200	5,200	5,900	5,600	5,300	4,900	4,900	4,500	4,100	4,200	3,900	3,700	4,200	4,000	4,800	4,000		
Parental Education																						
1.0–2.0 (Low)	1,700	2,200	2,600	3,100	2,500	2,300	2,400	2,700	2,200	1,900	1,800	1,800	1,700	1,600	1,700	1,600	1,500	1,400	1,600	1,400		
2.5–3.0	3,000	4,300	5,400	6,200	5,600	5,300	5,800	5,900	5,500	5,100	5,100	4,600	4,500	4,500	4,600	4,300	4,100	4,100	4,300	3,700		
3.5–4.0	1,600	2,500	3,200	4,000	3,600	3,600	4,200	4,200	3,900	4,000	4,000	3,800	4,300	4,400	4,500	4,100	4,200	4,600	4,500	4,300		
4.5–5.0	1,100	1,600	2,200	2,800	2,600	2,700	3,100	2,900	2,800	2,900	3,000	2,900	3,400	3,500	3,500	3,100	3,100	3,400	3,600	3,500		
5.5–6.0 (High)	440	710	1,100	1,200	1,200	1,300	1,500	1,300	1,200	1,400	1,500	1,500	1,800	1,900	1,700	1,600	1,500	1,700	1,700	1,800		
Race/Ethnicity (2-year average) <sup>a</sup>																						
White	—	—	23,400	26,500	27,500	25,600	26,300	27,300	26,200	24,700	24,200	23,600	23,800	24,200	24,000	23,400	21,900	21,500	22,000	21,800		
African American	—	—	3,300	3,700	3,500	3,500	4,000	4,000	3,900	4,000	4,000	3,500	3,200	3,600	3,900	3,500	3,200	3,900	4,200	3,600		
Hispanic	—	—	890	1,000	940	740	930	1,300	1,300	1,200	1,200	1,500	1,900	2,100	2,400	2,500	2,400	2,600	2,900	3,100		

(Table continued on next page.)

**TABLE S3 (cont.)**  
**Approximate Weighted Ns by Subgroups in Grade 12**

	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>
Total	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500	14,000	13,700	14,400	14,100	13,700	12,600
Gender:																			
Male	7,200	6,700	7,100	7,100	6,300	5,800	5,800	5,800	6,600	6,800	6,800	6,600	6,500	6,400	6,300	6,700	6,800	6,600	5,900
Female	7,800	7,100	7,700	7,500	6,700	6,400	6,500	6,600	7,400	7,200	7,300	7,100	7,400	6,900	6,700	7,100	6,700	6,600	6,100
College Plans																			
None or under 4 years	3,300	2,600	3,200	3,100	2,800	2,600	2,500	2,400	2,800	2,800	2,600	2,500	2,400	2,300	2,100	2,100	2,100	2,100	2,200
Complete 4 years	11,200	10,800	11,000	11,100	10,200	9,300	9,600	9,700	11,100	11,000	11,300	11,000	11,300	10,800	10,800	11,300	11,200	10,900	9,700
Region																			
Northeast	2,800	3,000	3,300	2,800	2,500	2,500	2,400	2,500	3,100	3,100	2,900	2,600	2,700	2,400	2,600	2,700	2,400	2,300	2,200
Midwest	4,300	3,800	4,100	3,800	3,600	3,100	3,700	3,300	3,600	3,800	3,600	3,500	3,200	3,500	3,500	3,200	3,400	3,600	3,100
South	5,400	5,100	5,300	5,700	4,900	4,500	4,100	4,300	4,900	5,000	5,200	5,200	5,500	5,000	4,800	5,400	5,100	4,400	4,300
West	2,900	2,400	2,700	2,900	2,600	2,700	2,600	2,800	3,000	2,700	3,000	2,900	3,100	3,100	2,800	3,100	3,200	3,400	3,000
Population Density																			
Large MSA	4,400	3,400	4,100	4,300	3,800	3,800	3,800	4,000	4,600	4,200	4,300	4,700	4,700	3,700	3,900	4,200	4,300	4,300	3,800
Other MSA	7,000	7,000	7,500	7,500	6,200	5,800	5,800	5,900	6,500	6,800	7,000	6,200	6,600	7,100	6,900	7,300	6,900	6,700	6,200
Non-MSA	4,000	3,900	3,800	3,400	3,600	3,200	3,200	3,000	3,500	3,600	3,400	3,300	3,200	3,200	2,900	2,900	2,900	2,700	2,600
Parental Education																			
1.0–2.0 (Low)	1,200	1,100	1,300	1,200	960	860	1,000	980	1,200	1,000	1,100	1,100	1,100	1,200	1,400	1,400	1,200	1,200	1,200
2.5–3.0	3,700	3,300	3,600	3,700	3,200	3,000	2,900	2,800	3,400	3,400	3,200	3,100	3,200	3,000	2,900	3,000	2,800	2,800	2,500
3.5–4.0	4,400	3,800	4,100	4,300	3,900	3,600	3,600	3,800	4,200	4,000	3,900	4,000	4,200	3,900	3,700	4,000	3,900	3,700	3,500
4.5–5.0	3,700	3,500	3,500	3,300	3,200	3,100	3,200	3,100	3,400	3,600	3,600	3,600	3,600	3,500	3,300	3,500	3,600	3,600	3,300
5.5–6.0 (High)	1,800	2,100	2,100	2,000	1,800	1,600	1,600	1,500	1,800	2,000	2,100	1,900	1,800	1,700	1,600	1,600	1,900	1,800	1,500
Race/Ethnicity (2-year average) <sup>a</sup>																			
White	21,600	20,700	19,800	20,200	19,500	17,700	16,200	16,300	17,800	19,600	19,600	18,600	18,200	17,300	16,300	16,400	16,500	16,300	15,600
African American	3,300	3,200	3,600	3,700	3,400	3,300	3,100	2,900	3,000	3,200	3,000	3,000	3,200	3,500	3,100	3,000	3,400	3,200	2,700
Hispanic	2,700	2,600	2,800	3,000	2,500	2,200	2,600	3,100	3,100	2,800	2,900	3,500	3,700	4,000	4,400	4,500	4,000	3,700	3,900

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

Notes. ' — ' indicates data not available. See appendix B for definition of variables in table.

**Caution:** The Ns in this table are based on the entire sample at each grade level. Some drug use questions are asked only in some of the questionnaire forms rather than in all, in which case these Ns need to be adjusted appropriately. Look under Notes in each table to see if only a fraction of the sample was asked about that drug. If there is no such indication, the entire sample received the question.

<sup>a</sup>Ns for each racial subgroup represent the combination of the specified year and the previous year. Data have been combined to increase subgroup sample sizes and thus provide more stable estimates.

See appendix B for details on how race/ethnicity is defined.

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