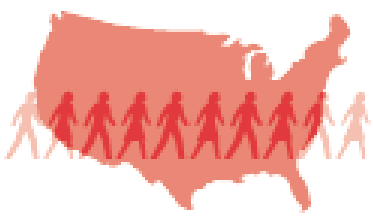

monitoring **the future**

occasional paper series

paper 60

DEMOGRAPHIC SUBGROUP TRENDS FOR VARIOUS LICIT AND ILLICIT DRUGS 1975-2003

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

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

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Demographic Subgroup Trends for Various Licit and Illicit Drugs

1975-2003

Monitoring the Future Occasional Paper 60

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

The University of Michigan
Institute for Social Research
Ann Arbor, MI
2004

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INTRODUCTION

Each year the Monitoring the Future investigators author a pair of monographs that provide the prevalence and trend results on licit and illicit drug use from the study's most recent surveys of American secondary school students, college students, and adults through age 45. The monographs are published by the study's sponsor, the National Institute on Drug Abuse. The present occasional paper is intended to serve as a supplement to the first of those volumes, which reports survey results on secondary school students for 2003: *Monitoring the Future National Survey Results on Drug Use, 1975-2003*: *Volume 1, Secondary School Students*.[1] That volume contains a description of the design and purposes of the Monitoring the Future study, and that description is not repeated here.

The volume also contains (in its Appendix D) tabular data on trends in drug use for various demographic subgroups for each of the many drugs under study. The present occasional paper contains the *graphic* presentations of those subgroup trends because graphic presentations are much easier to comprehend. Graphic presentations have not been included in Volume I due both to their length and the desirability of presenting the trend lines in color, which currently is not an available option for the printed edition of Volume I. (Showing the trends in color greatly facilitates the differentiation of the various trend lines in each graph.)

The demographic subgroups (identical to those covered in Volume I) are:

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

Trend data are presented for 12th-grade respondents beginning with 1975, the first year in which nationally representative samples of high school seniors were surveyed. Trend data for 8th and 10th grades are presented beginning with 1991, when both groups were added to the study design. The numerical information upon which these graphics are based is contained in the relevant Appendix D tables of the full volume. Detailed definitions of the demographic categories are given in Appendix B of that volume. For the reader's convenience, both Appendix B and Appendix D from Volume I have also been appended to this occasional paper.

This occasional paper is available only in electronic form on the study's Web site, www.monitoringthefuture.org. The larger Volume I, which it supplements, is available both on the Web site and in printed form.

Please note that 11 new tables have been included this year, reporting trends in use of the various types of alcoholic beverages.

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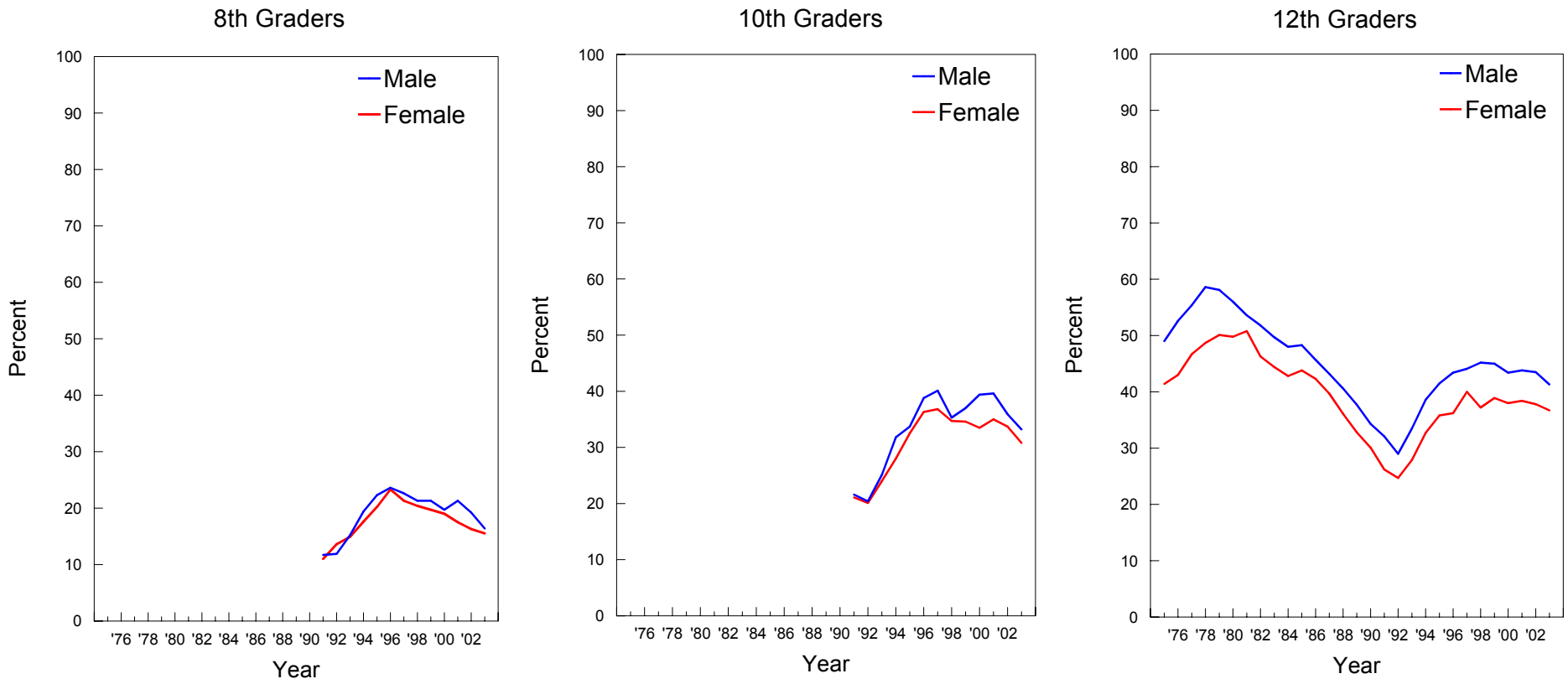
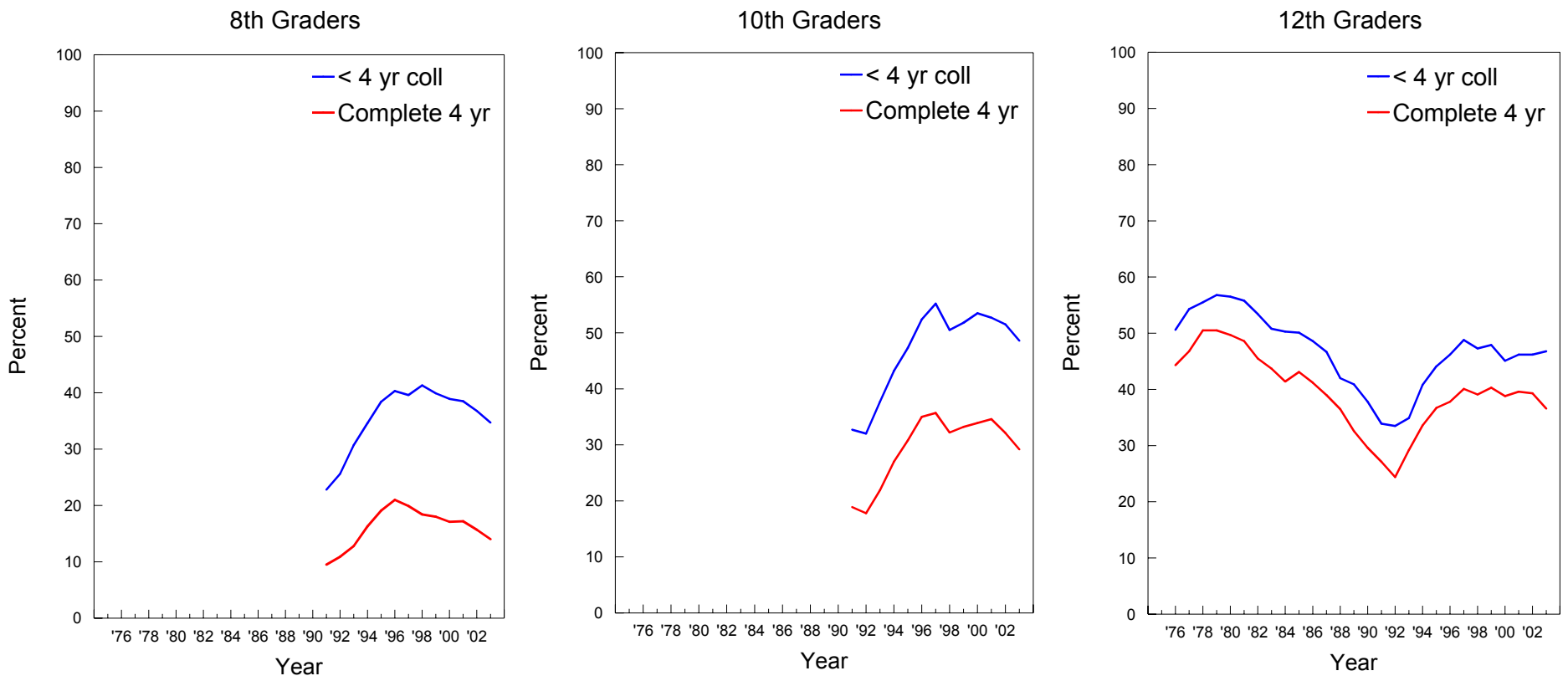
[1]Johnston, L. D., O'Malley, P. M., Bachman, J. G., & Schulenberg, J. E. (2004). *Monitoring the Future national survey results on drug use, 1975-2003. Volume 1: Secondary school students*. (NIH Publication No. 04-5507). Bethesda, MD: National Institute on Drug Abuse, 545 pp. (Also available on line at www.monitoringthefuture.org. Look under "Publications," and then under "Monographs.") This monograph will be available in hard-copy form approximately in August 2004.

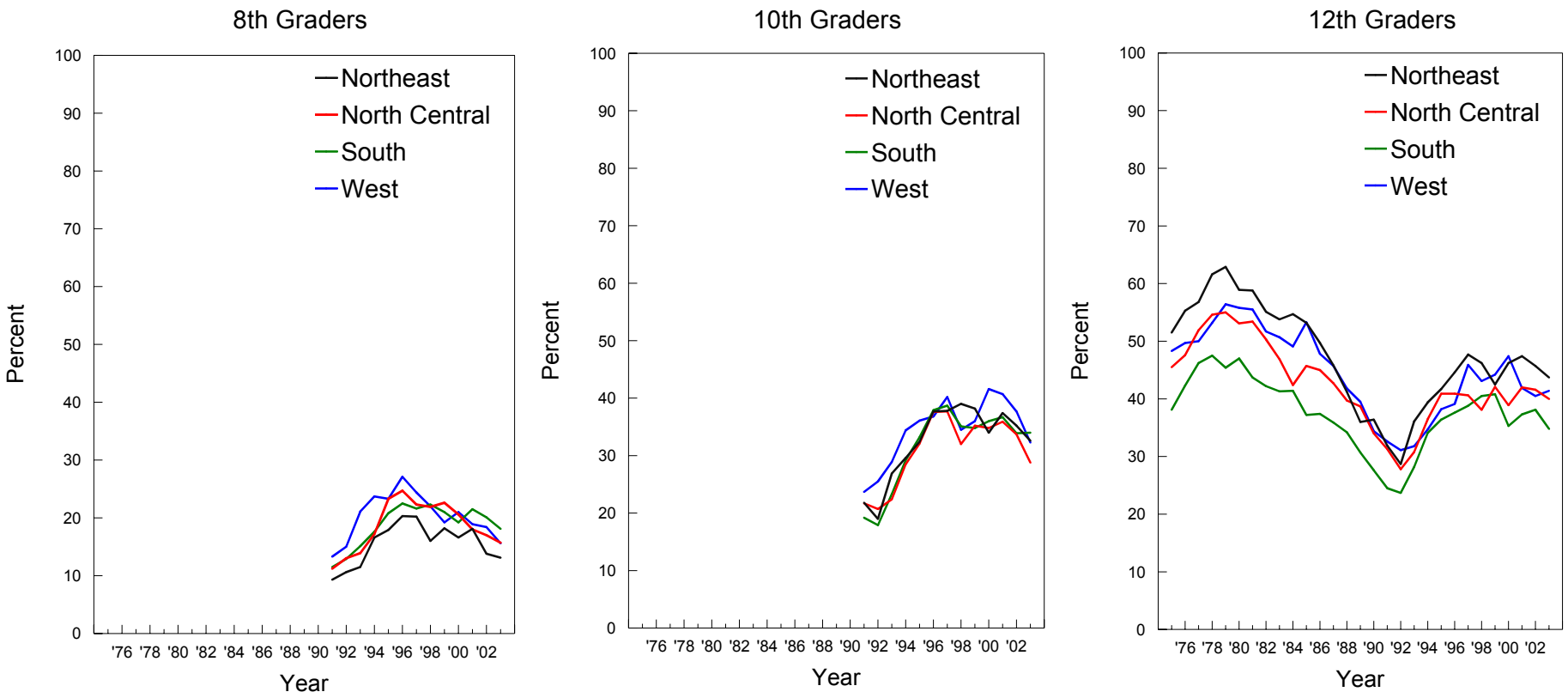
Any Illicit Drug: Trends in Annual Prevalence by Gender



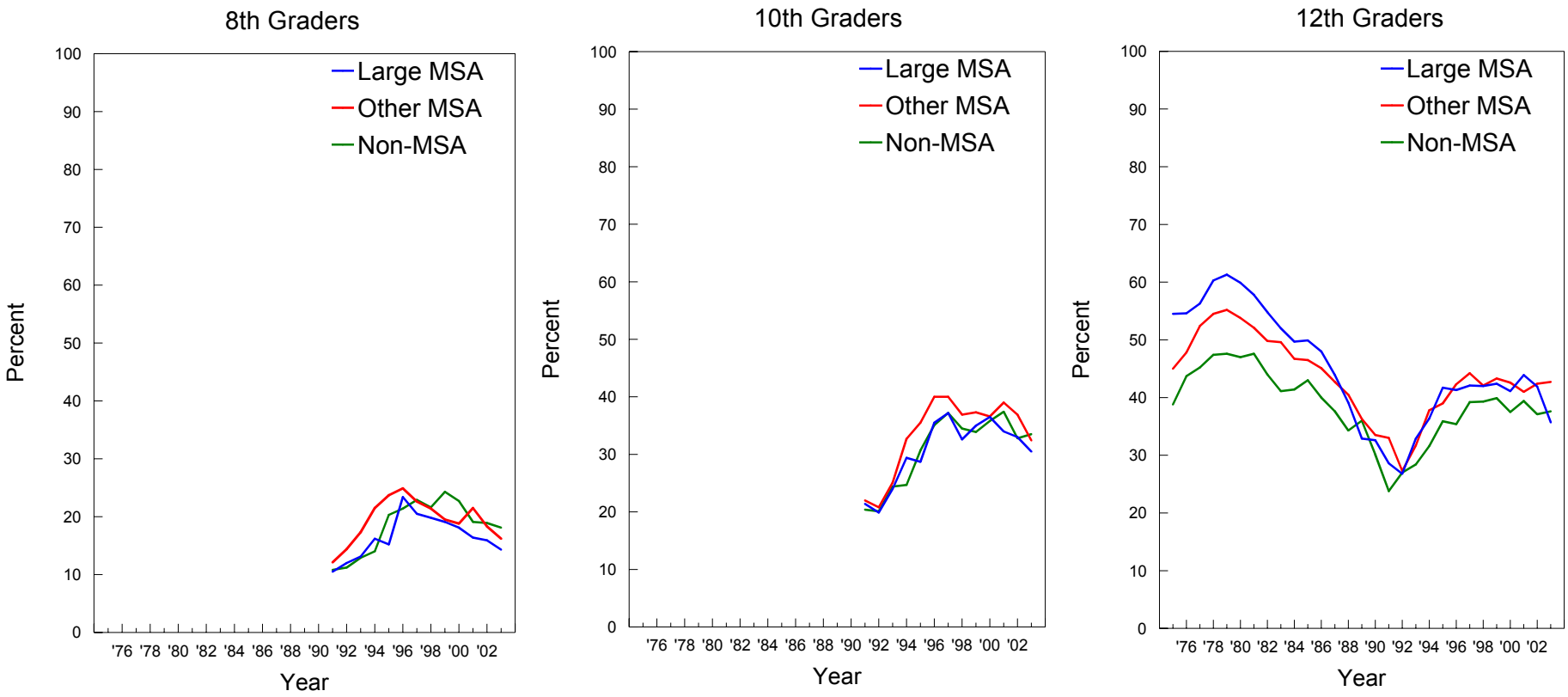
Any Illicit Drug: Trends in Annual Prevalence by College Plans



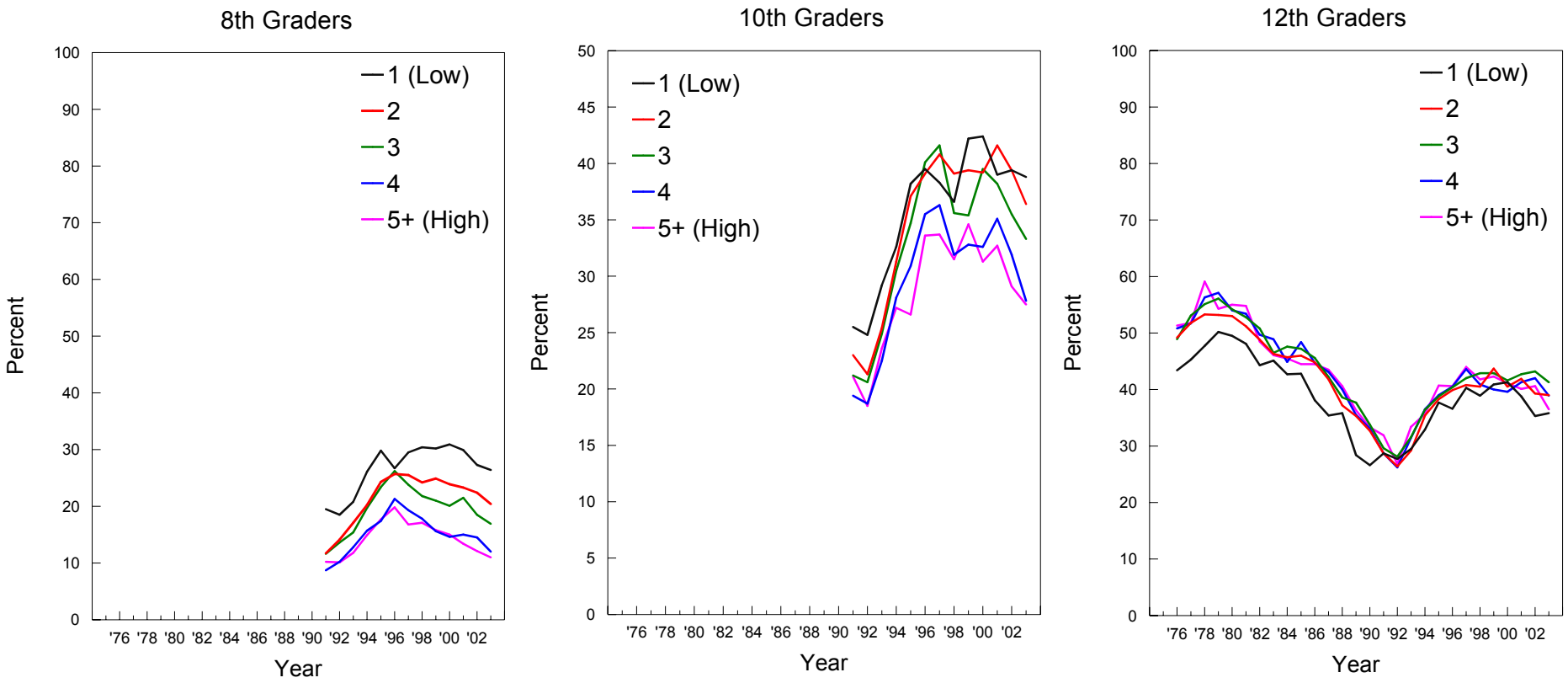
Any Illicit Drug: Trends in Annual Prevalence by Region



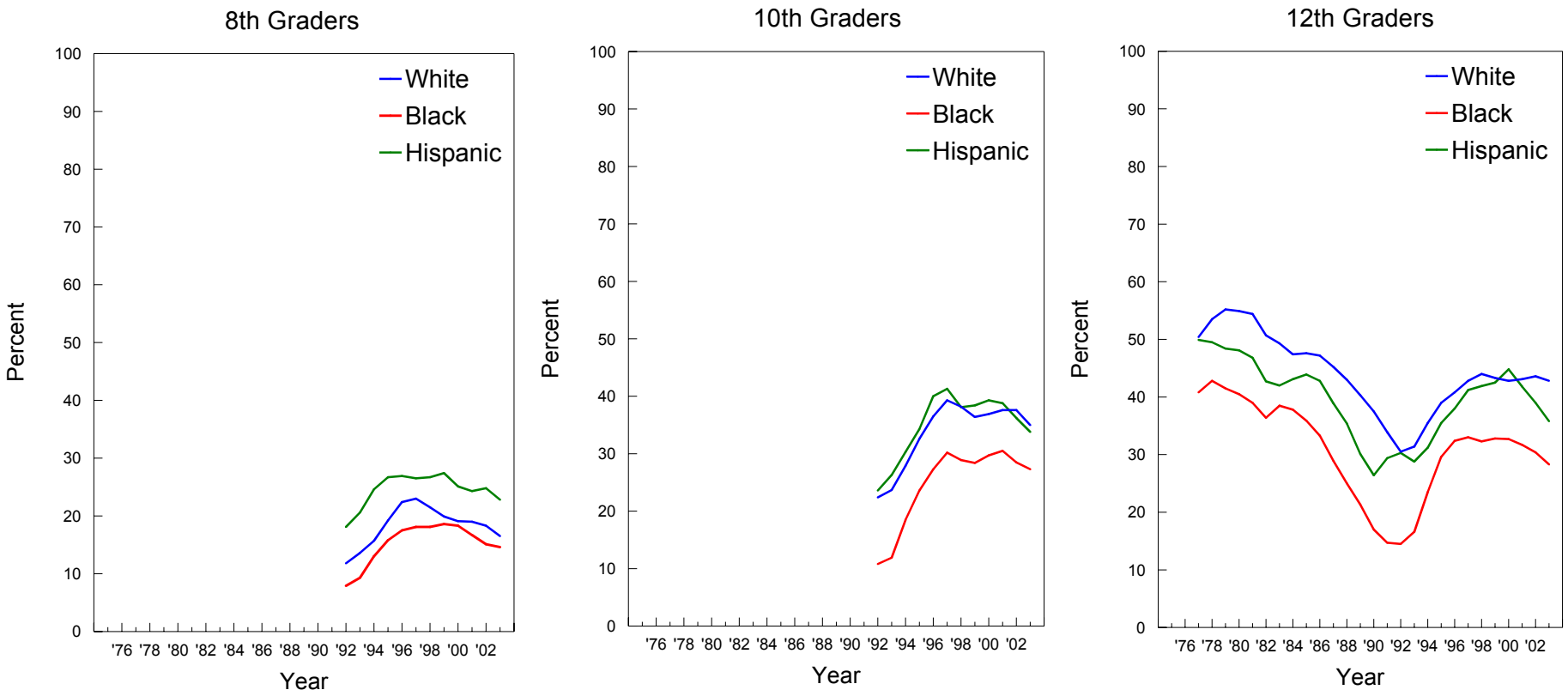
Any Illicit Drug: Trends in Annual Prevalence by Population Density



Any Illicit Drug: Trends in Annual Prevalence by Parents' Average Education

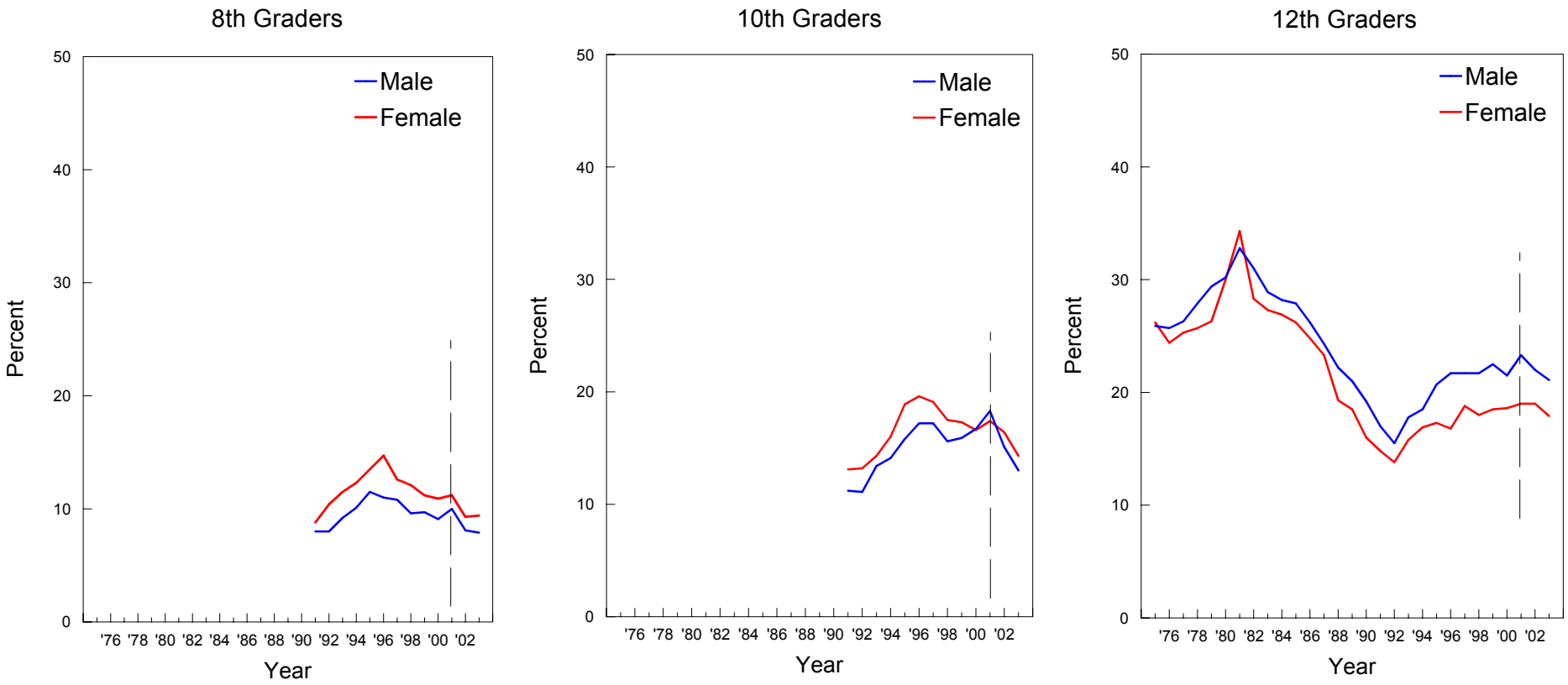


Any Illicit Drug: Trends in Annual Prevalence by Race/Ethnicity*



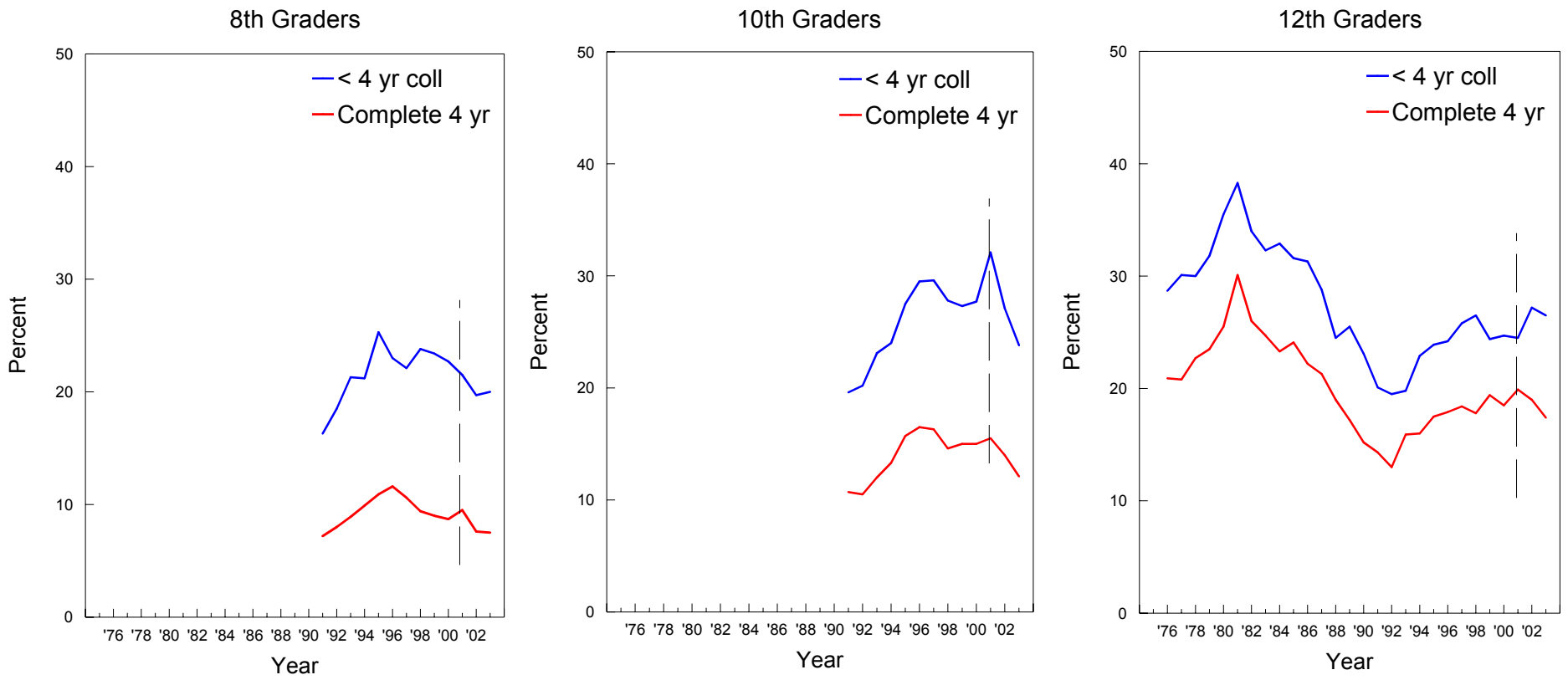
*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

Any Illicit Drug Other Than Marijuana:* Trends in Annual Prevalence by Gender



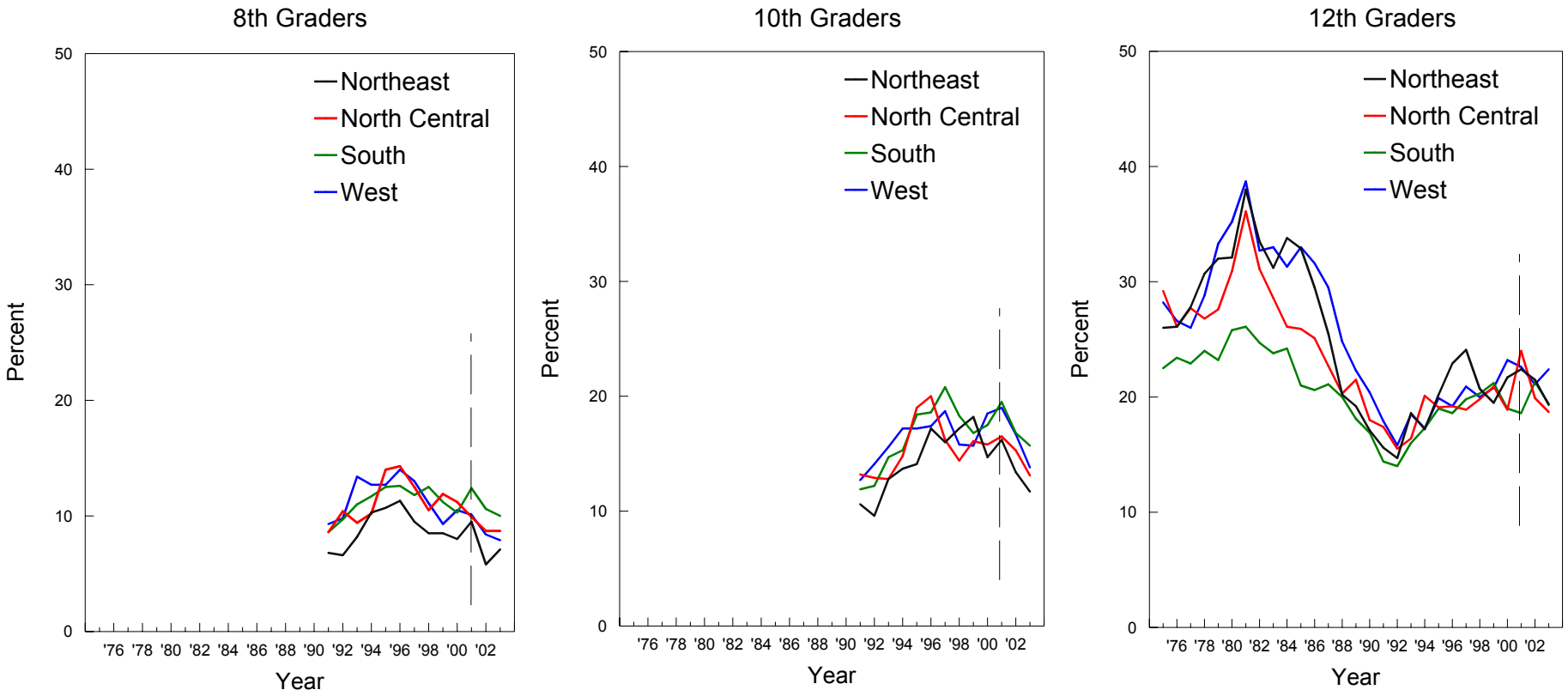
*Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Data for "any illicit drug other than marijuana" are affected by these changes. Refer to corresponding tables for further details.

Any Illicit Drug Other Than Marijuana:* Trends in Annual Prevalence by College Plans



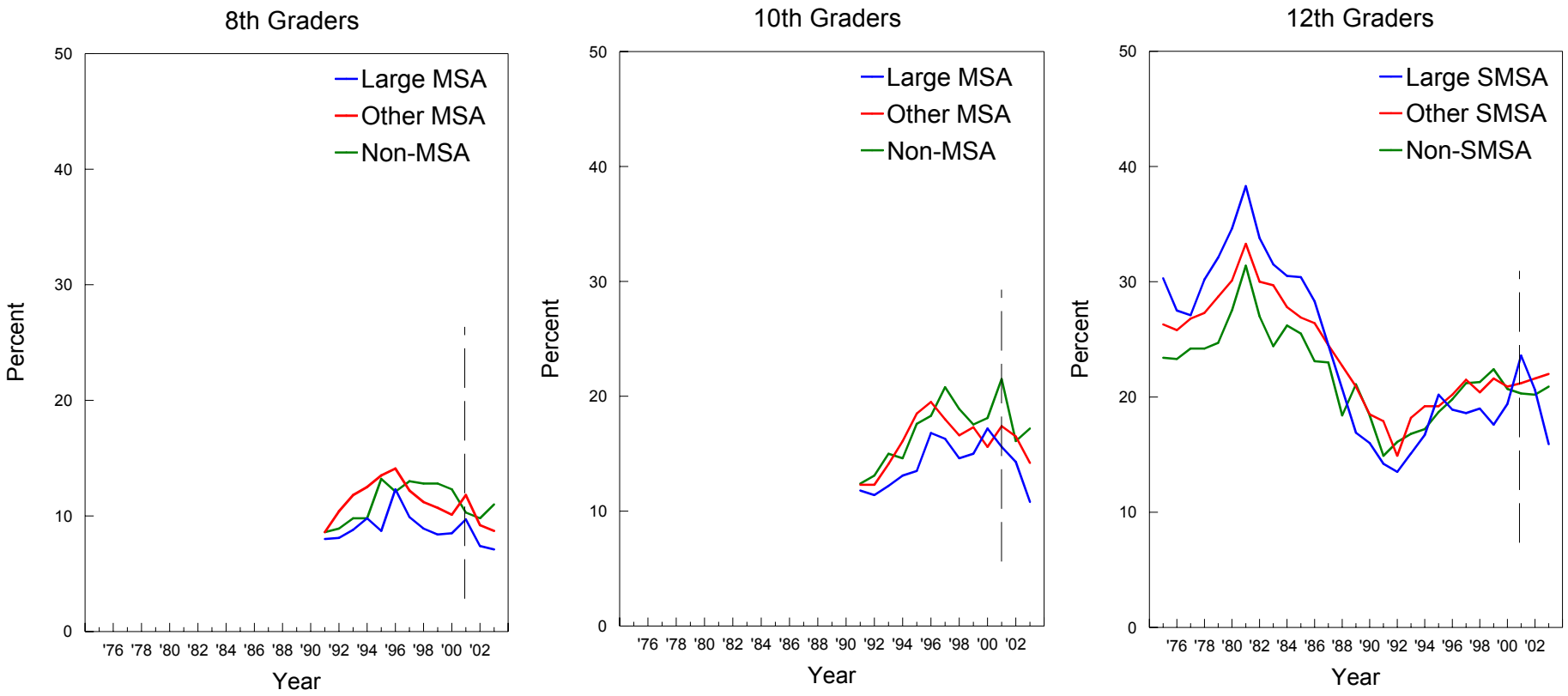
*Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Data for "any illicit drug other than marijuana" are affected by these changes. Refer to corresponding tables for further details.

Any Illicit Drug Other Than Marijuana:* Trends in Annual Prevalence by Region



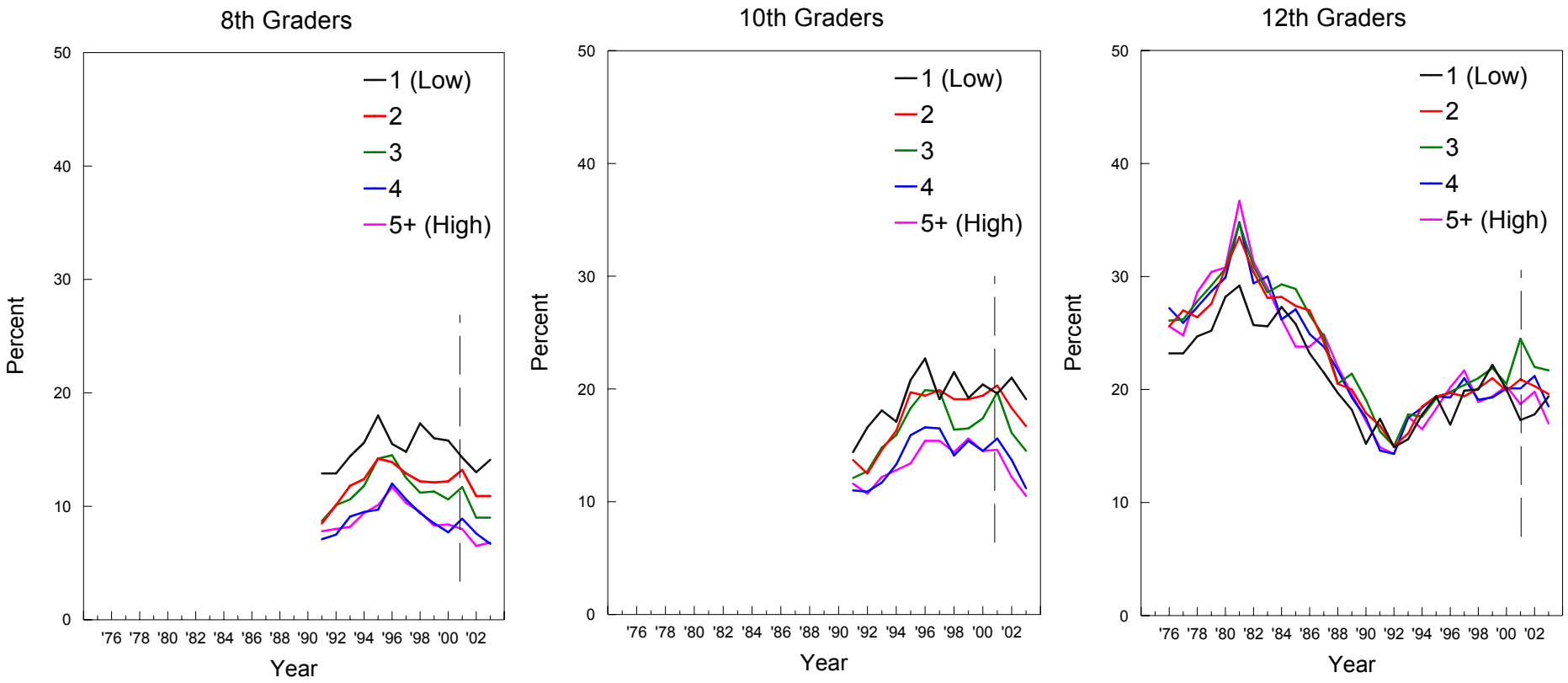
*Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Data for "any illicit drug other than marijuana" are affected by these changes. Refer to corresponding tables for further details.

Any Illicit Drug Other Than Marijuana:* Trends in Annual Prevalence by Population Density



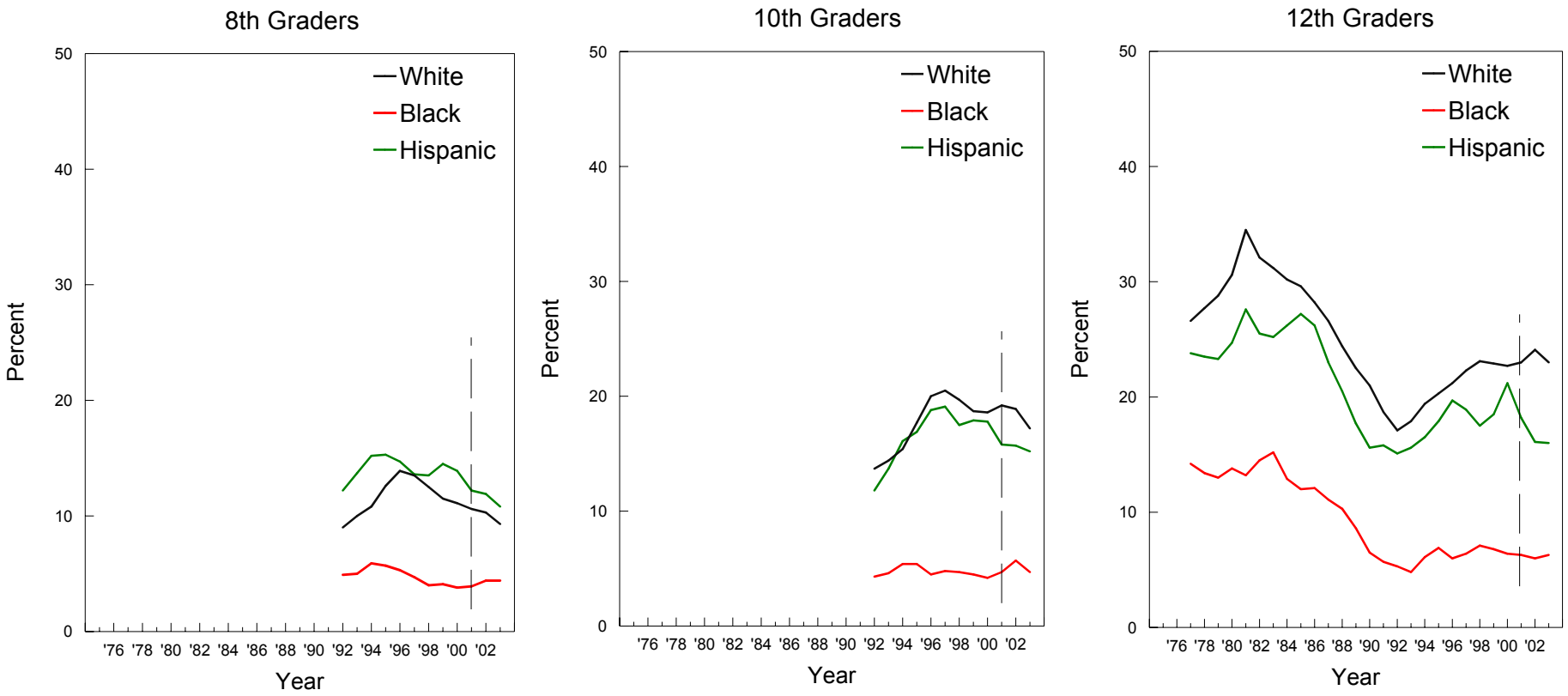
*Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Data for "any illicit drug other than marijuana" are affected by these changes. Refer to corresponding tables for further details.

Any Illicit Drug Other Than Marijuana:* Trends in Annual Prevalence by Parents' Average Education



*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.

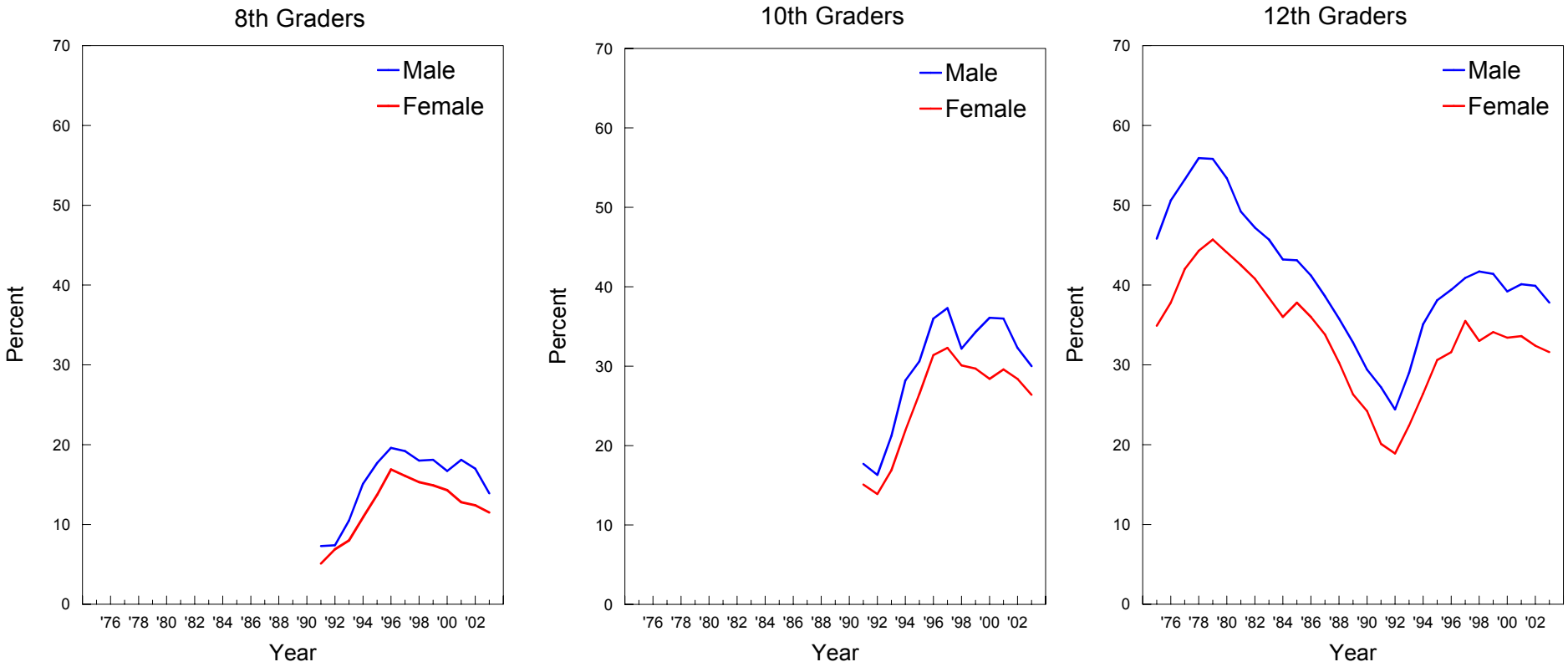
Any Illicit Drug Other Than Marijuana:* Trends in Annual Prevalence by Race/Ethnicity**



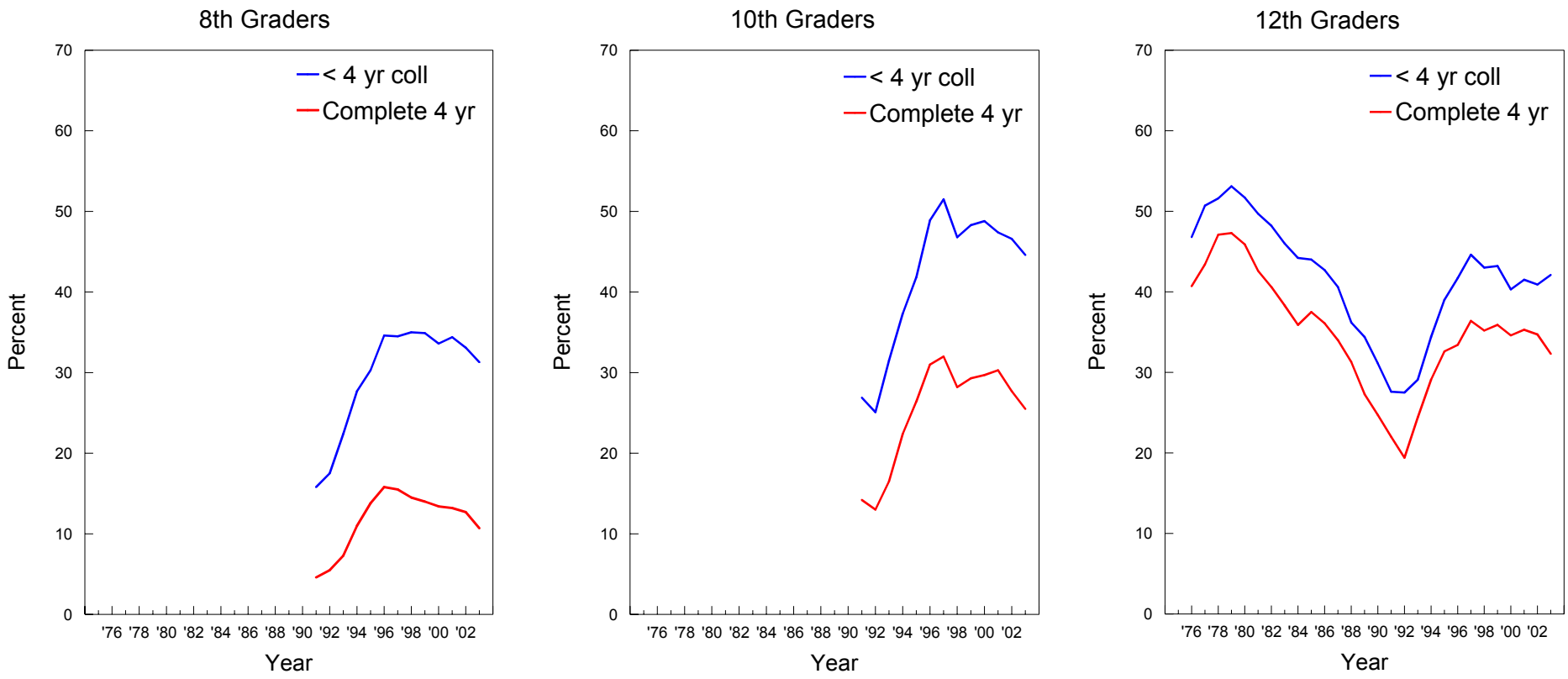
*Beginning in 2001, revised sets of questions on other hallucinogen and tranquilizer use were introduced. Data for "any illicit drug other than marijuana" are affected by these changes. Refer to corresponding tables for further details.

**These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

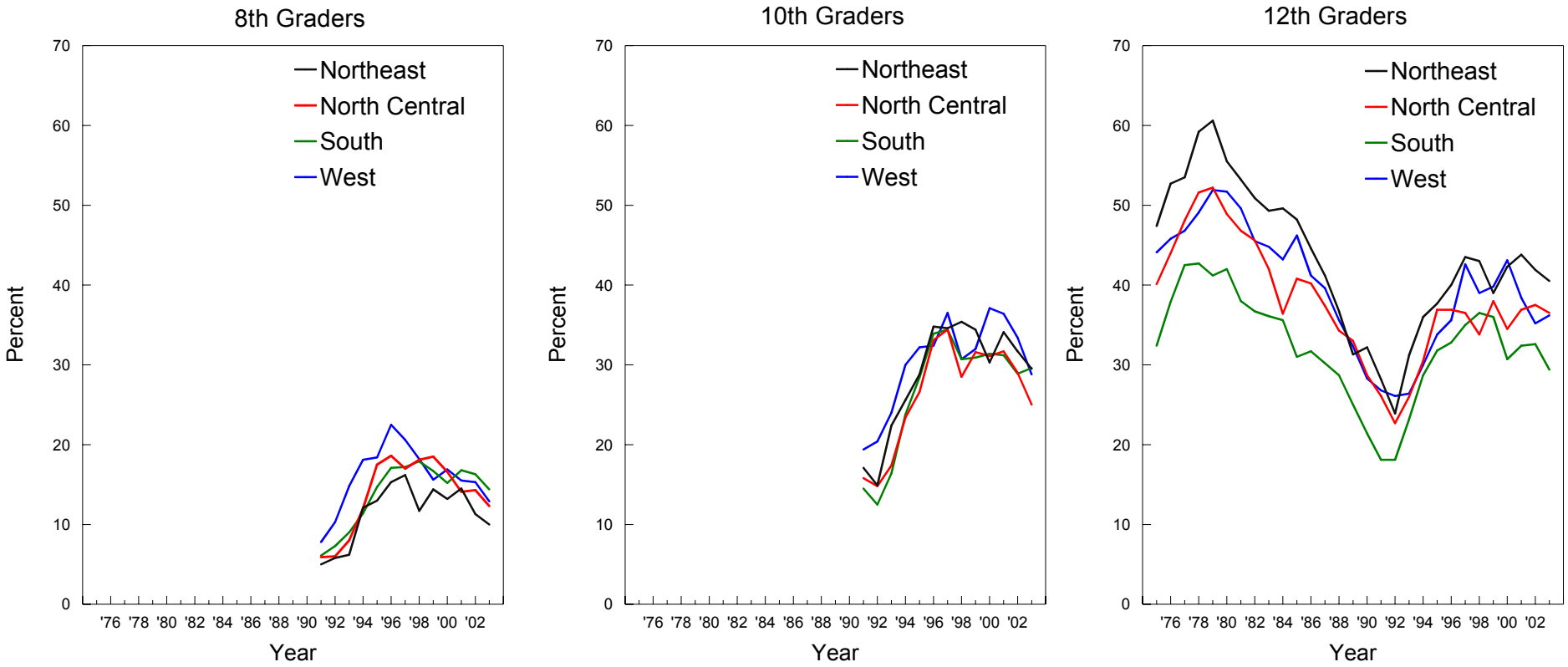
Marijuana: Trends in Annual Prevalence by Gender



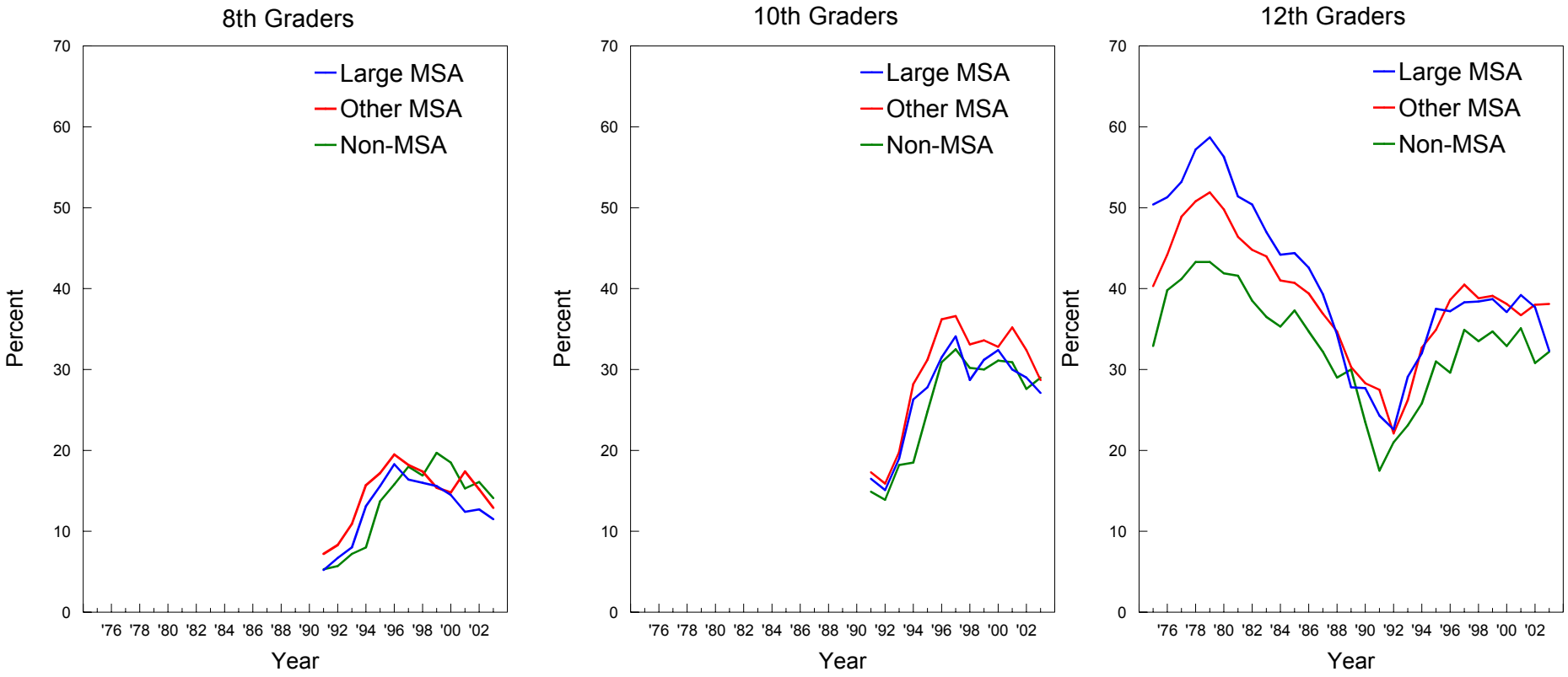
Marijuana: Trends in Annual Prevalence by College Plans



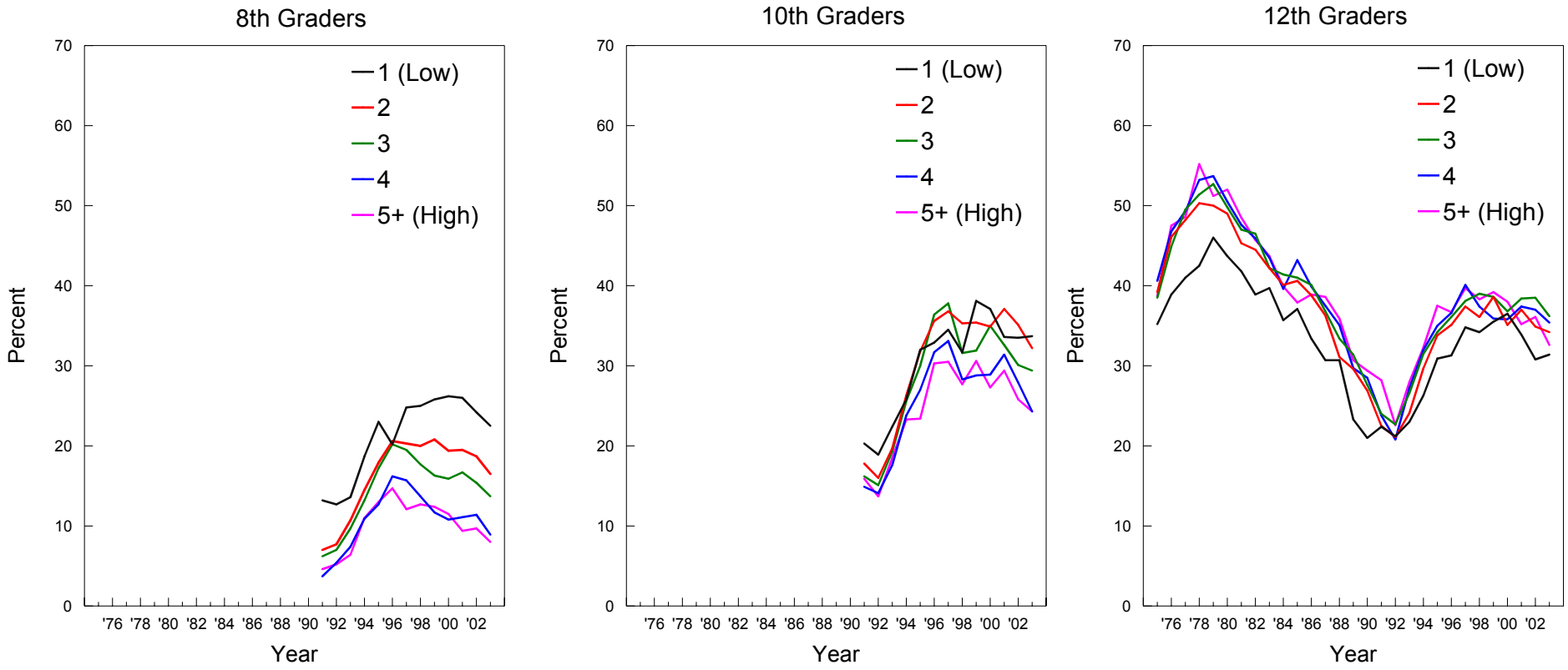
Marijuana: Trends in Annual Prevalence by Region



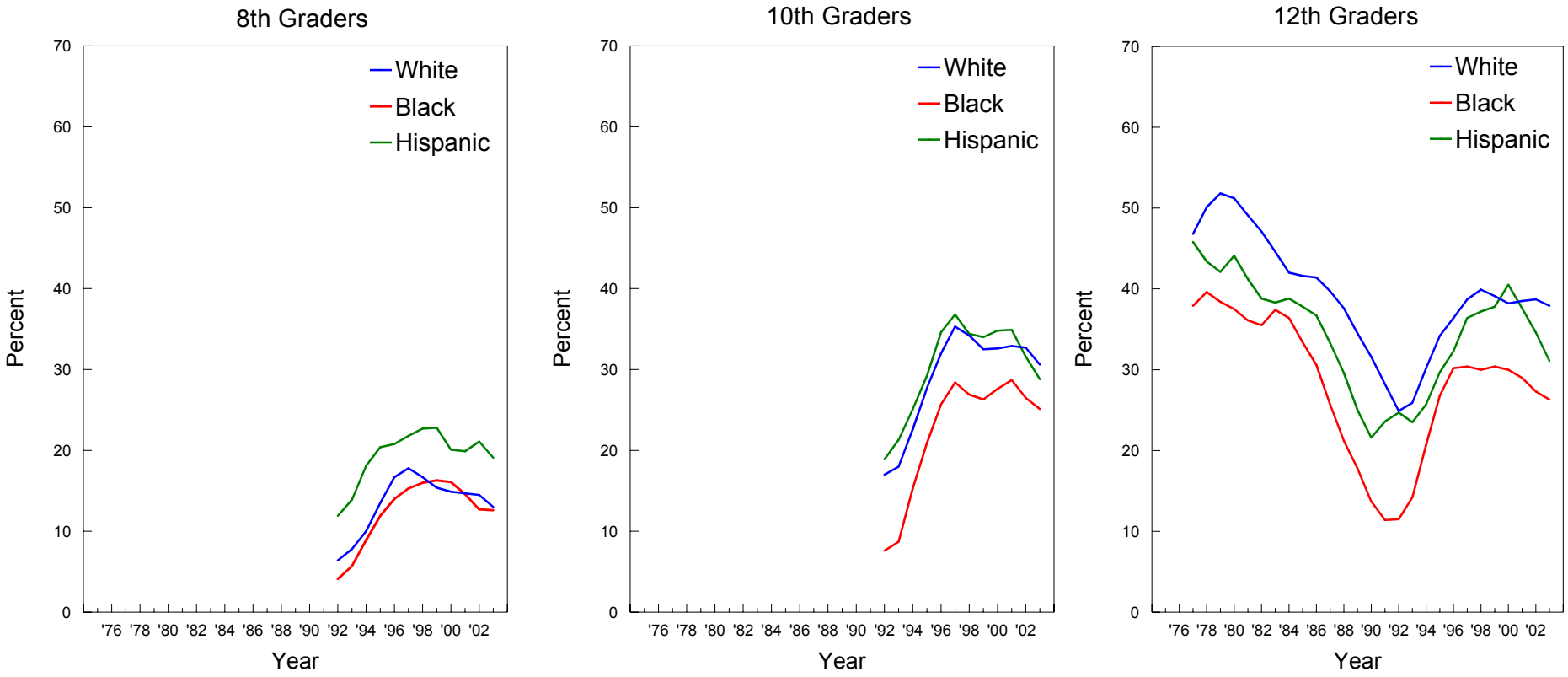
Marijuana: Trends in Annual Prevalence by Population Density



Marijuana: Trends in Annual Prevalence by Parents' Average Education

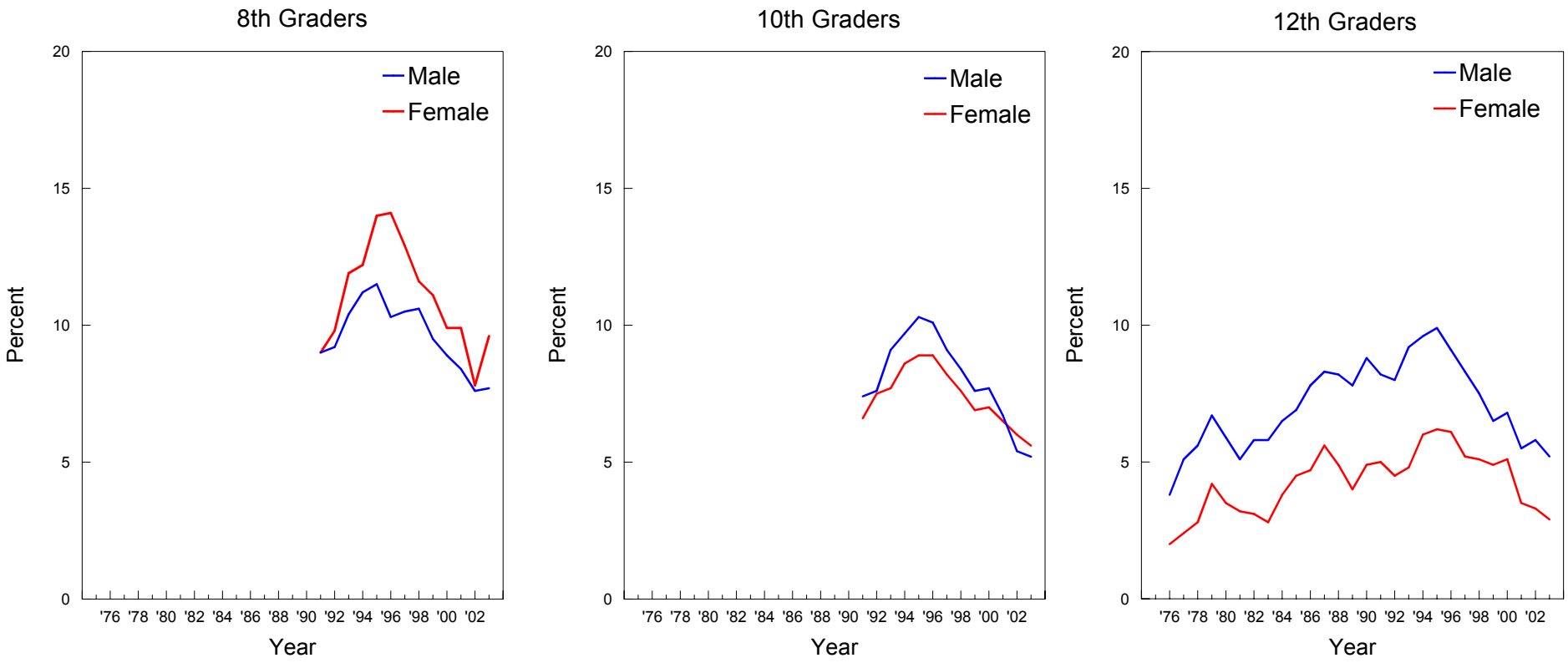


Marijuana: Trends in Annual Prevalence by Race/Ethnicity*

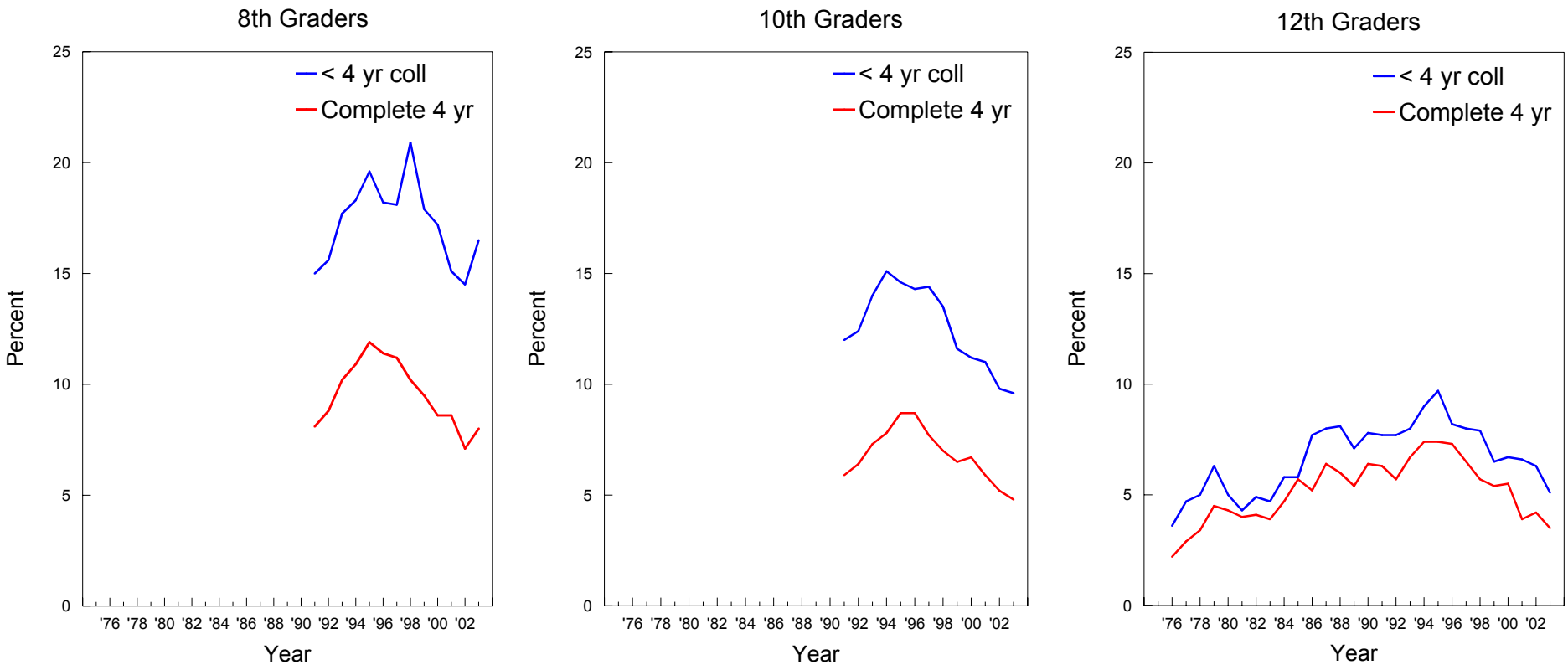


*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

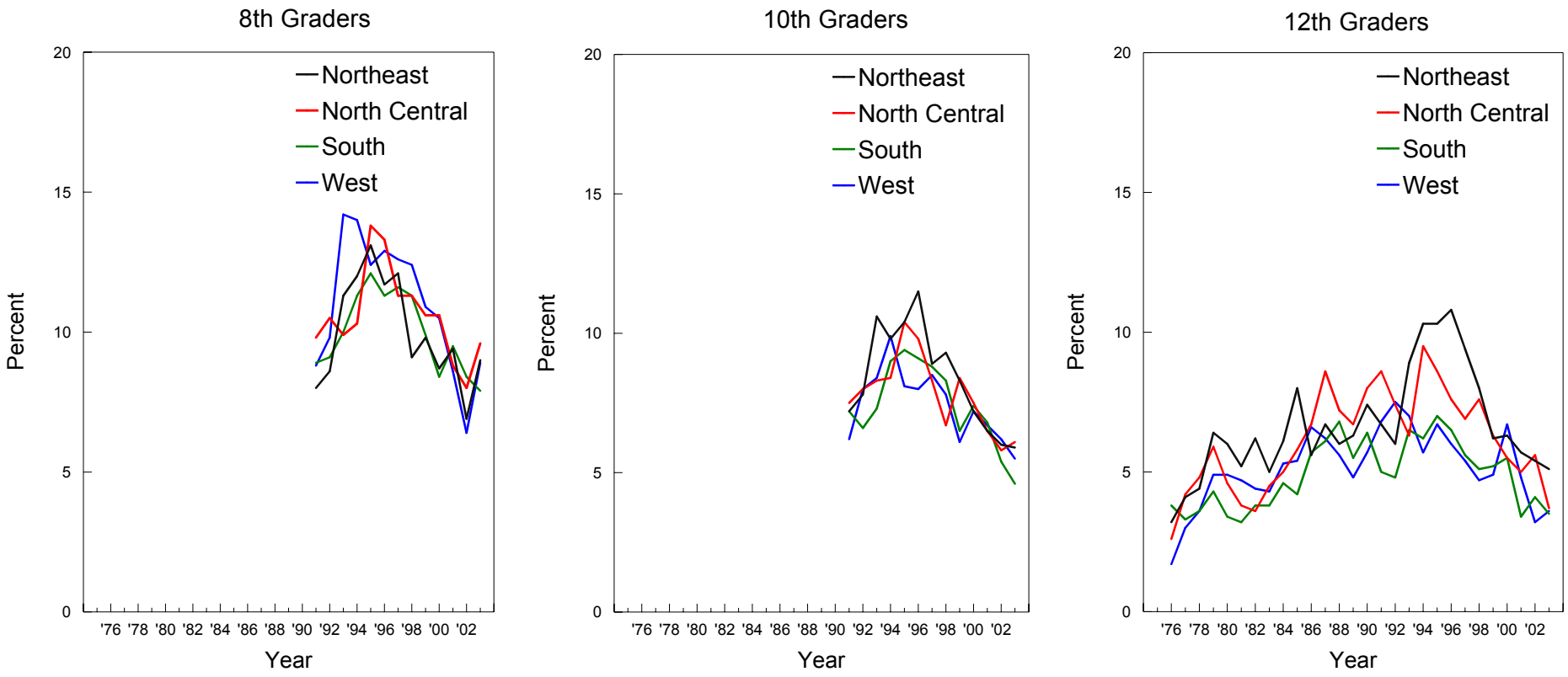
Inhalants: Trends in Annual Prevalence by Gender



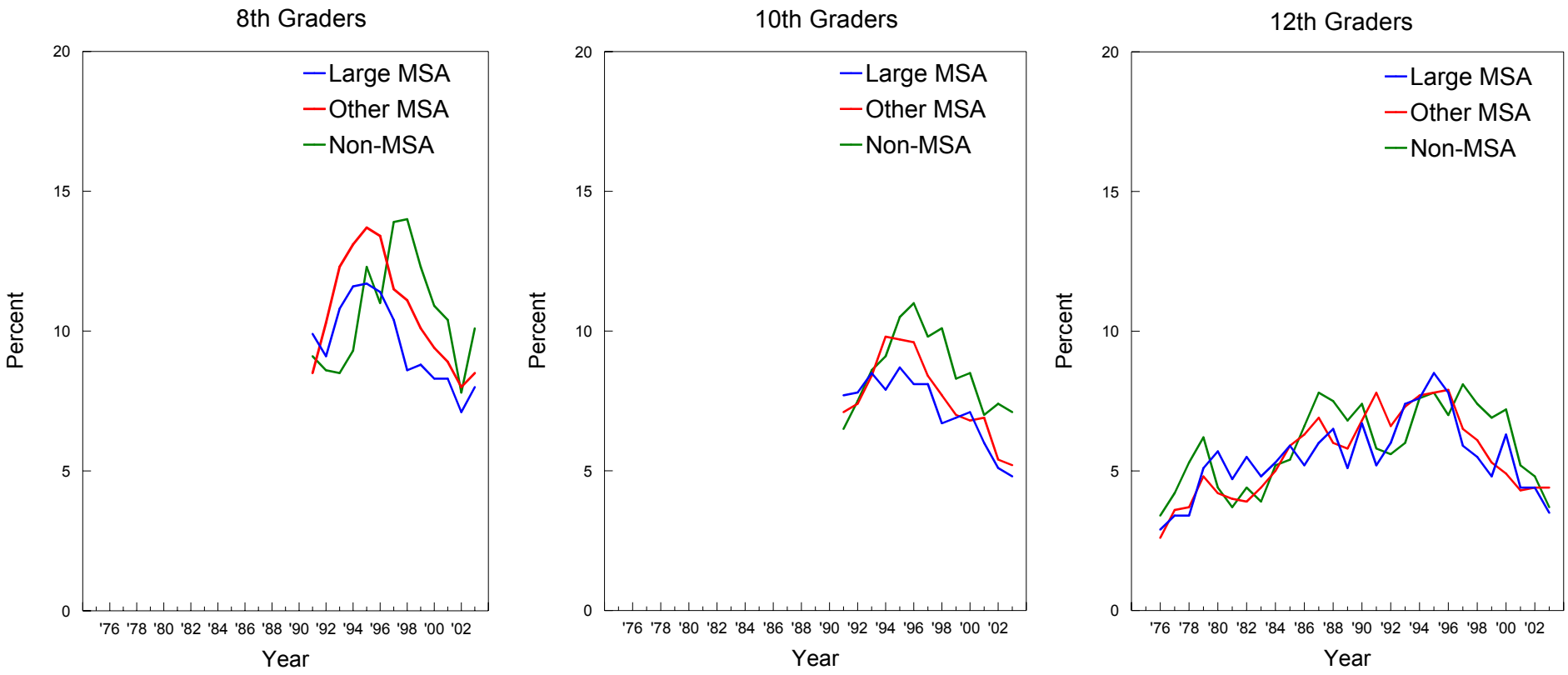
Inhalants: Trends in Annual Prevalence by College Plans



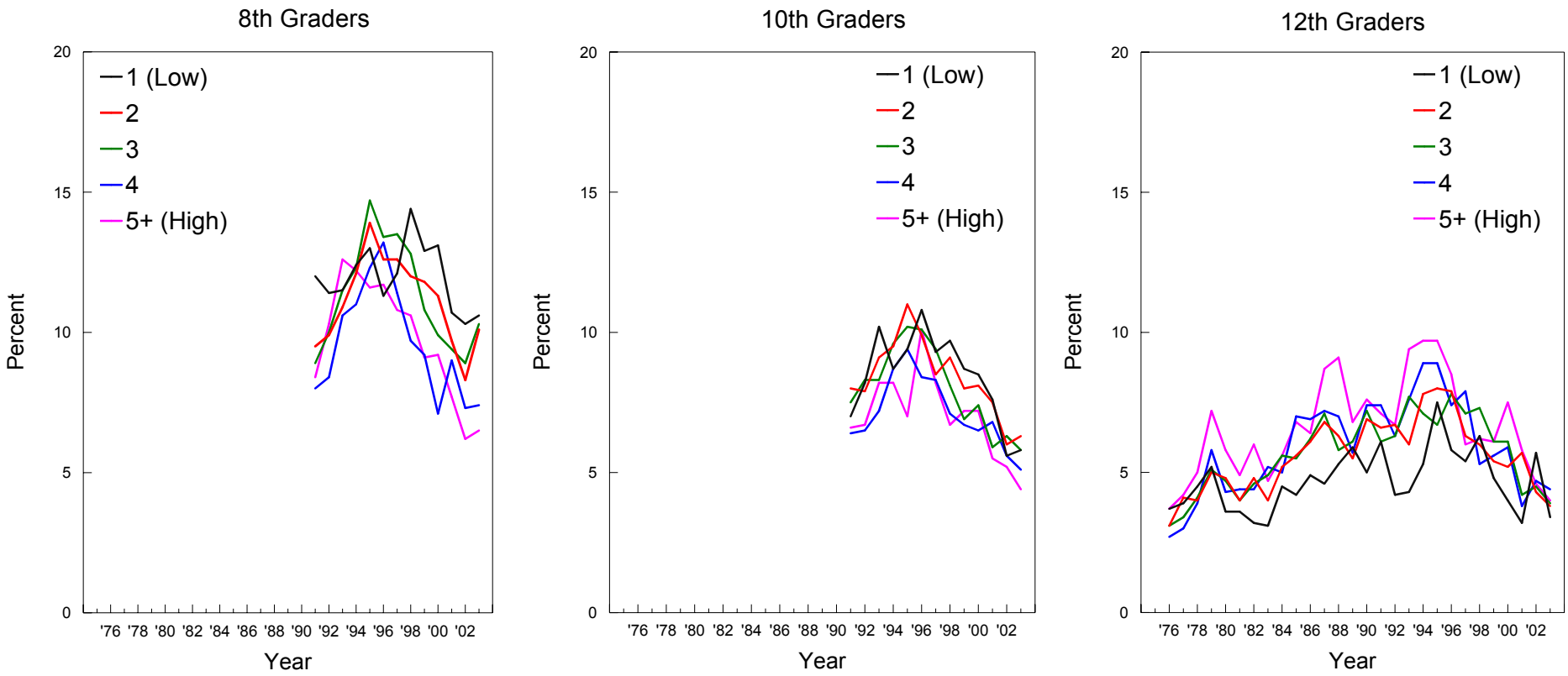
Inhalants: Trends in Annual Prevalence by Region



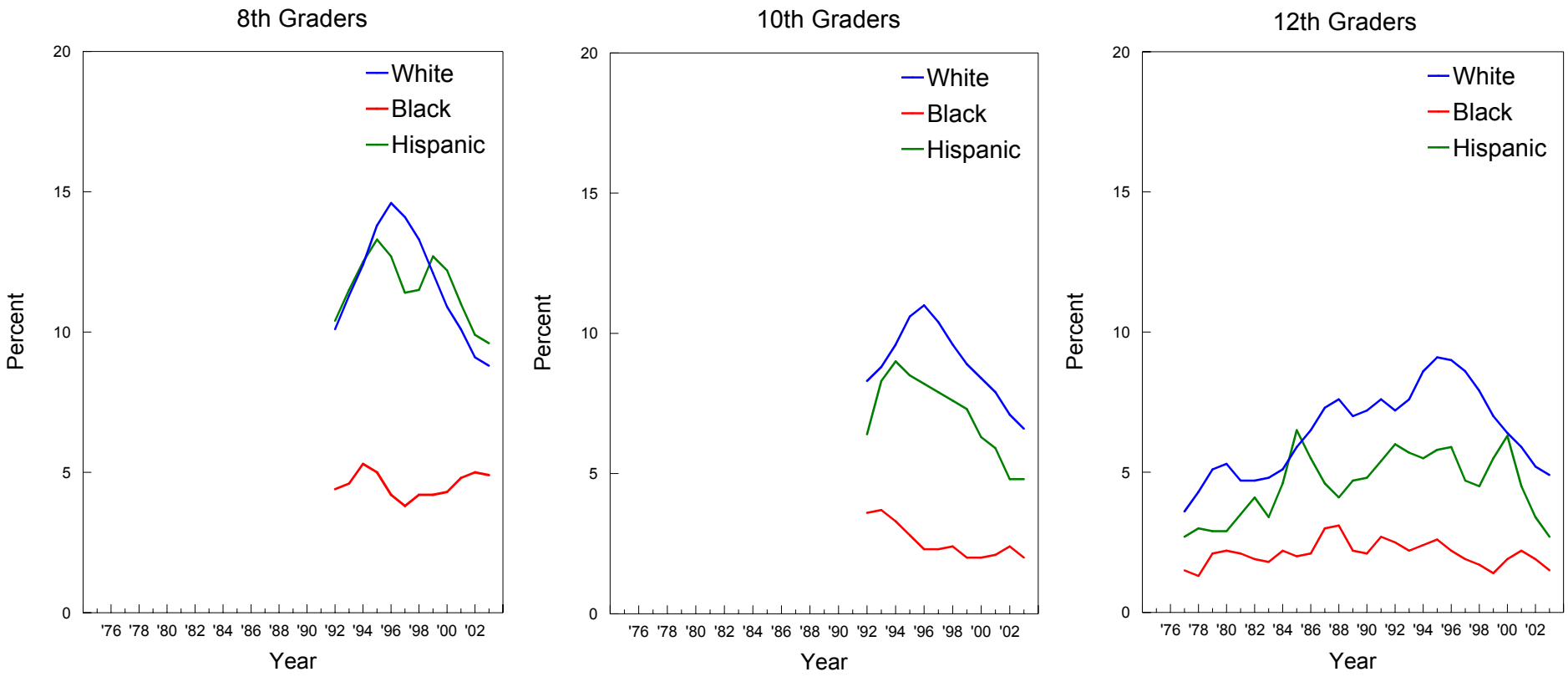
Inhalants: Trends in Annual Prevalence by Population Density



Inhalants: Trends in Annual Prevalence by Parents' Average Education

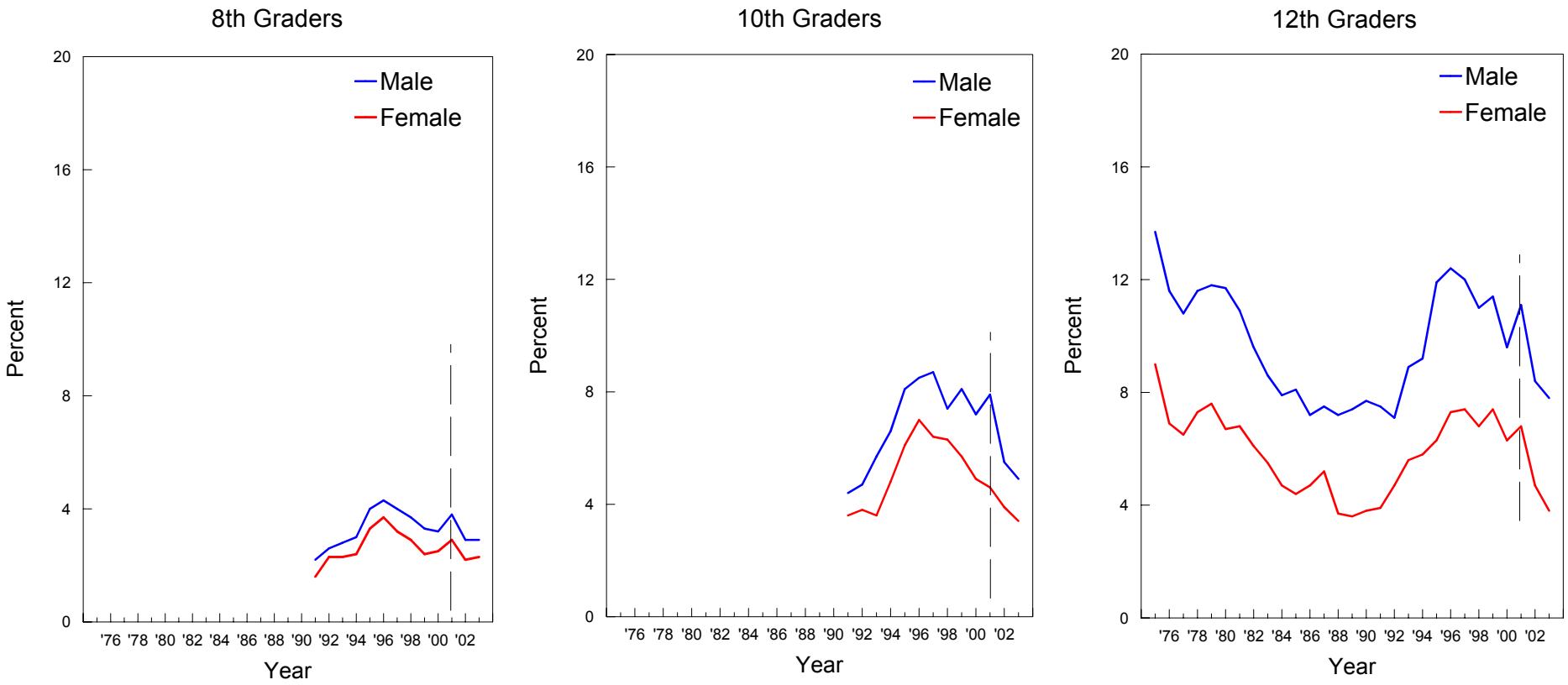


Inhalants: Trends in Annual Prevalence by Race/Ethnicity*



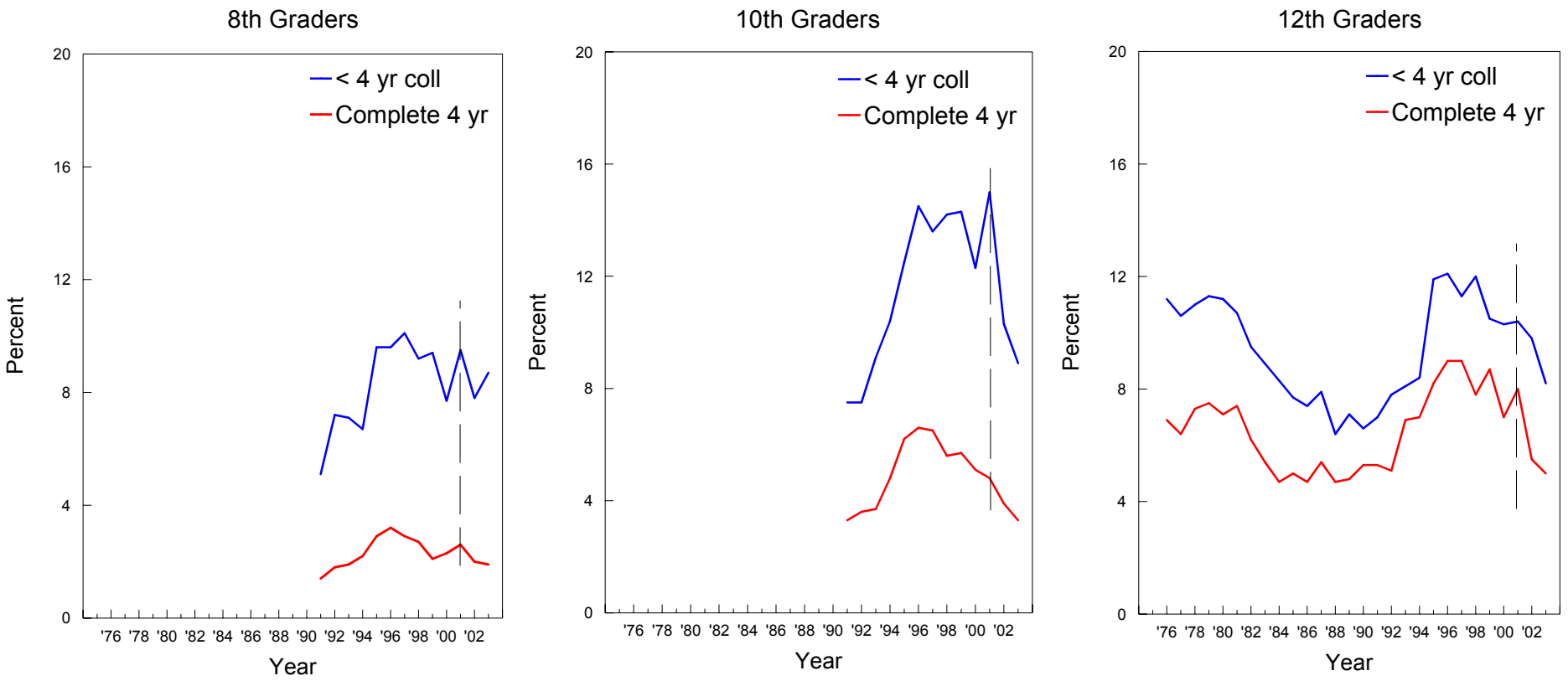
*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

Hallucinogens:* Trends in Annual Prevalence by Gender



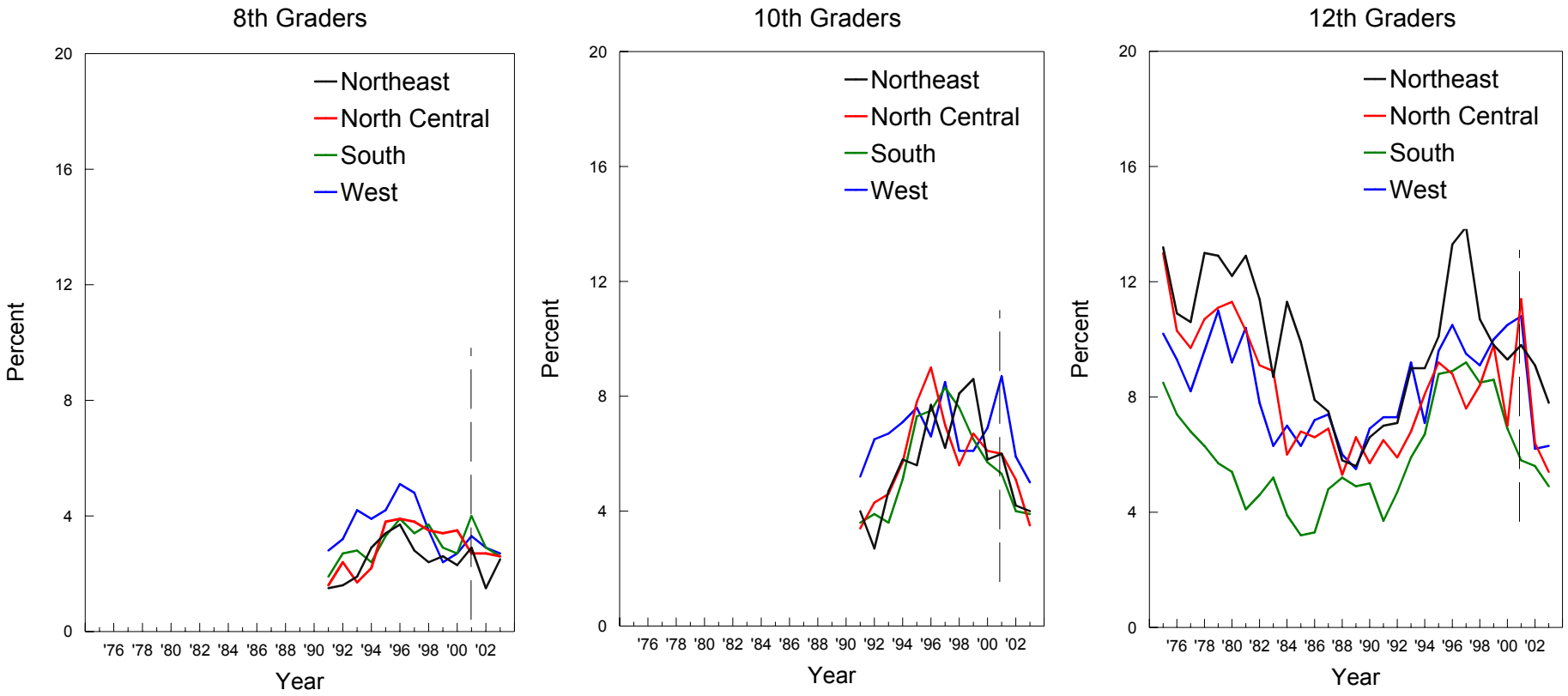
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Data for hallucinogens are affected by these changes. Refer to corresponding tables for further details.

Hallucinogens:* Trends in Annual Prevalence by College Plans



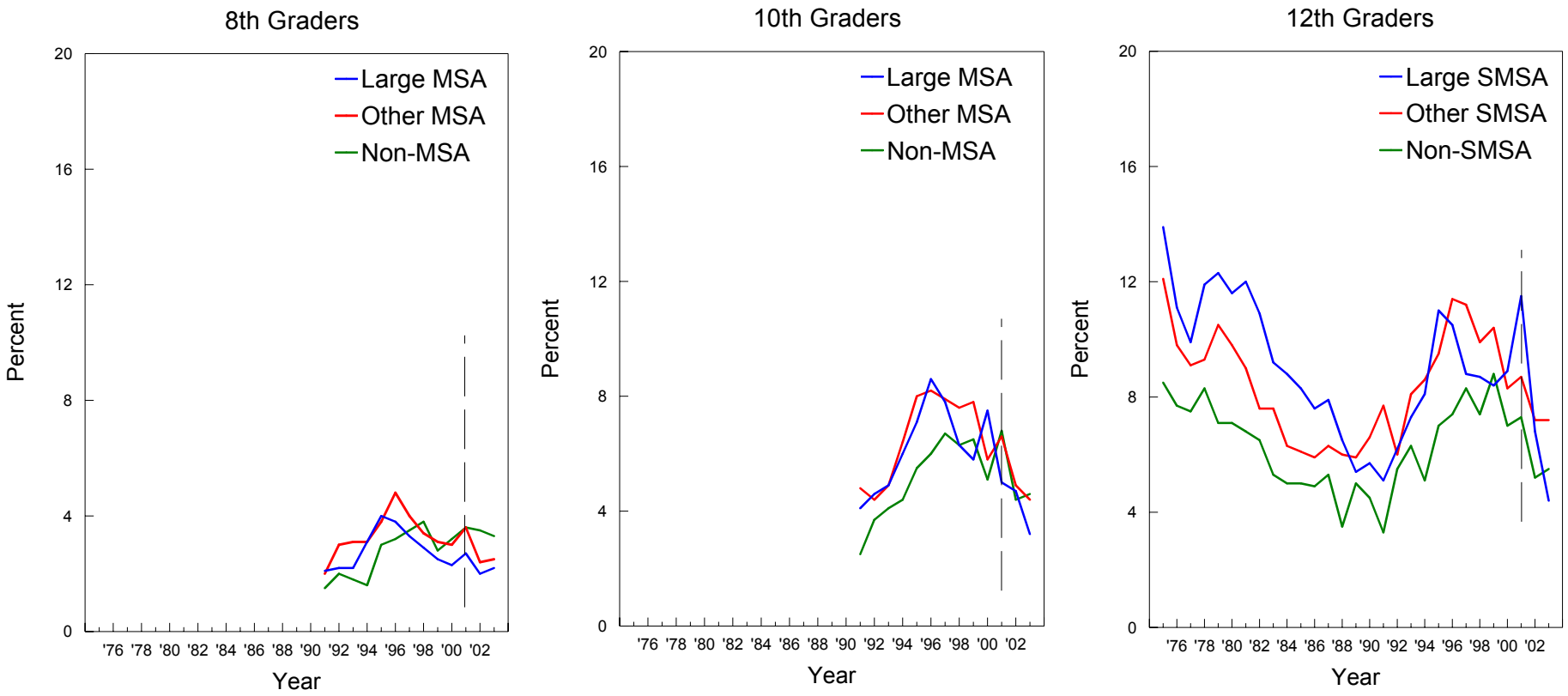
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Data for hallucinogens are affected by these changes. Refer to corresponding tables for further details.

Hallucinogens:* Trends in Annual Prevalence by Region



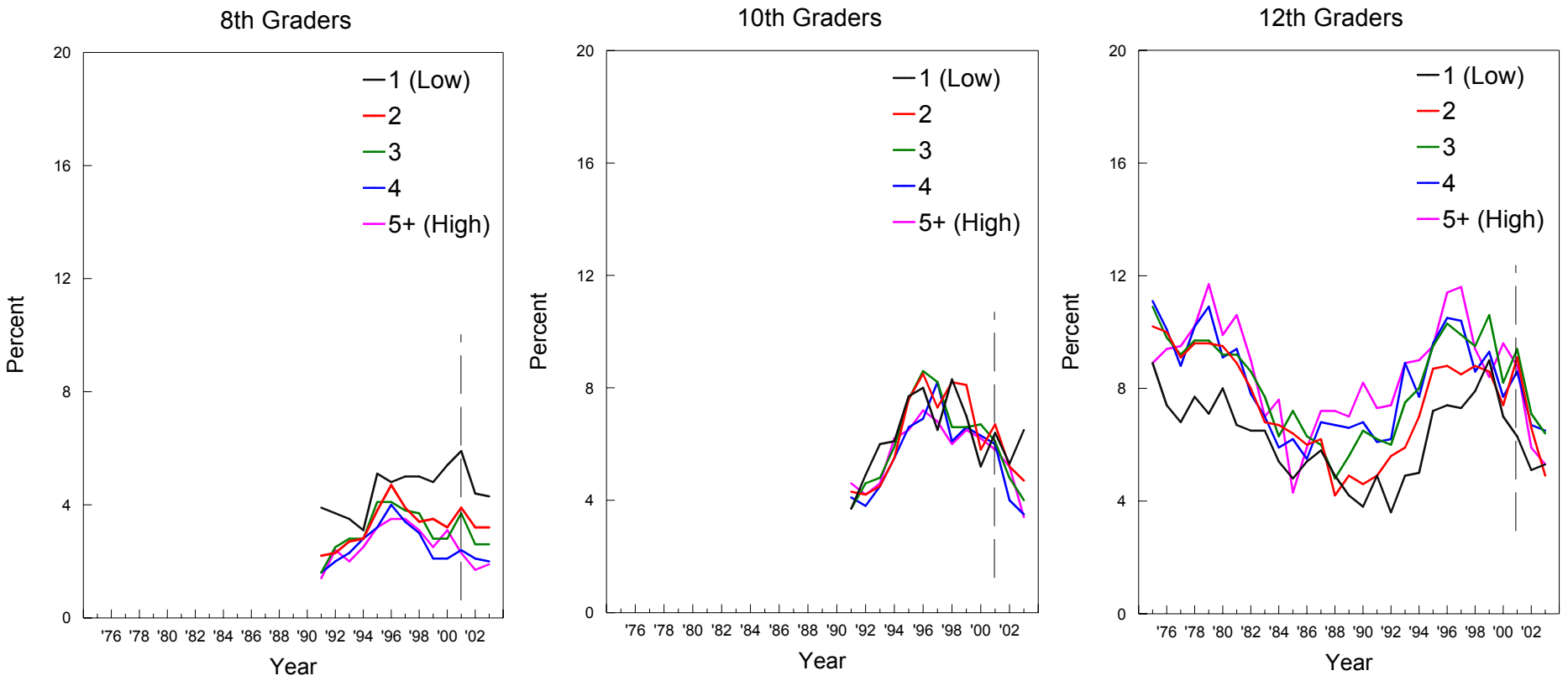
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Data for hallucinogens are affected by these changes. Refer to corresponding tables for further details.

Hallucinogens:* Trends in Annual Prevalence by Population Density



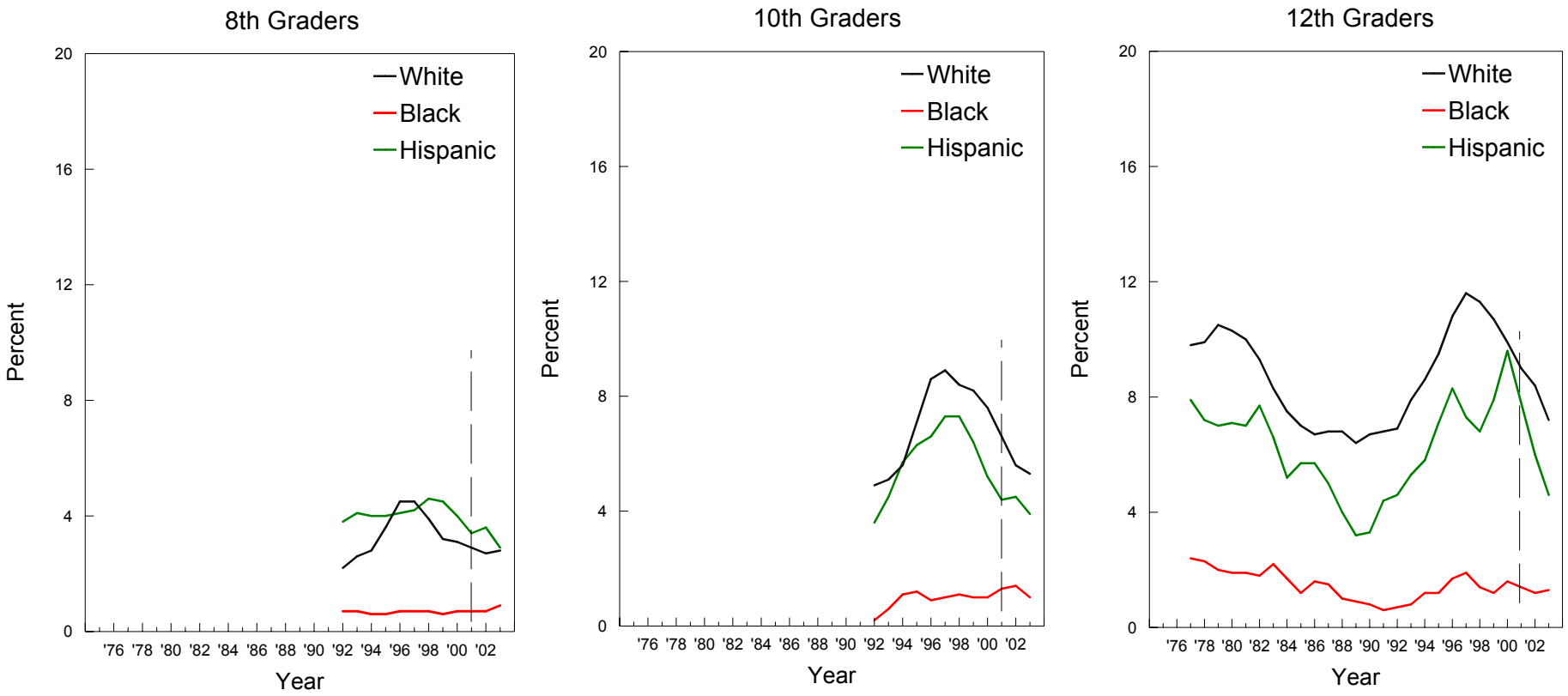
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Data for hallucinogens are affected by these changes. Refer to corresponding tables for further details.

Hallucinogens:* Trends in Annual Prevalence by Parents' Average Education



*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.

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



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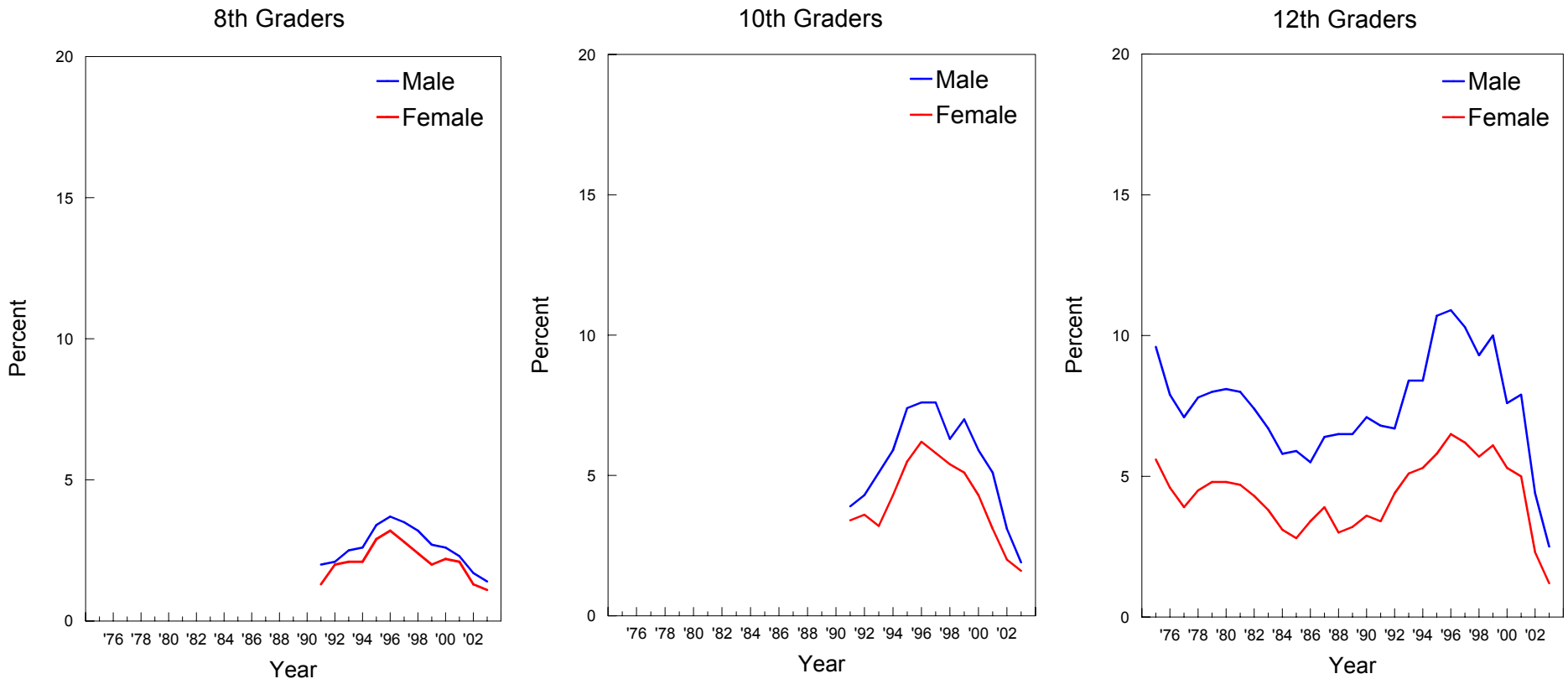
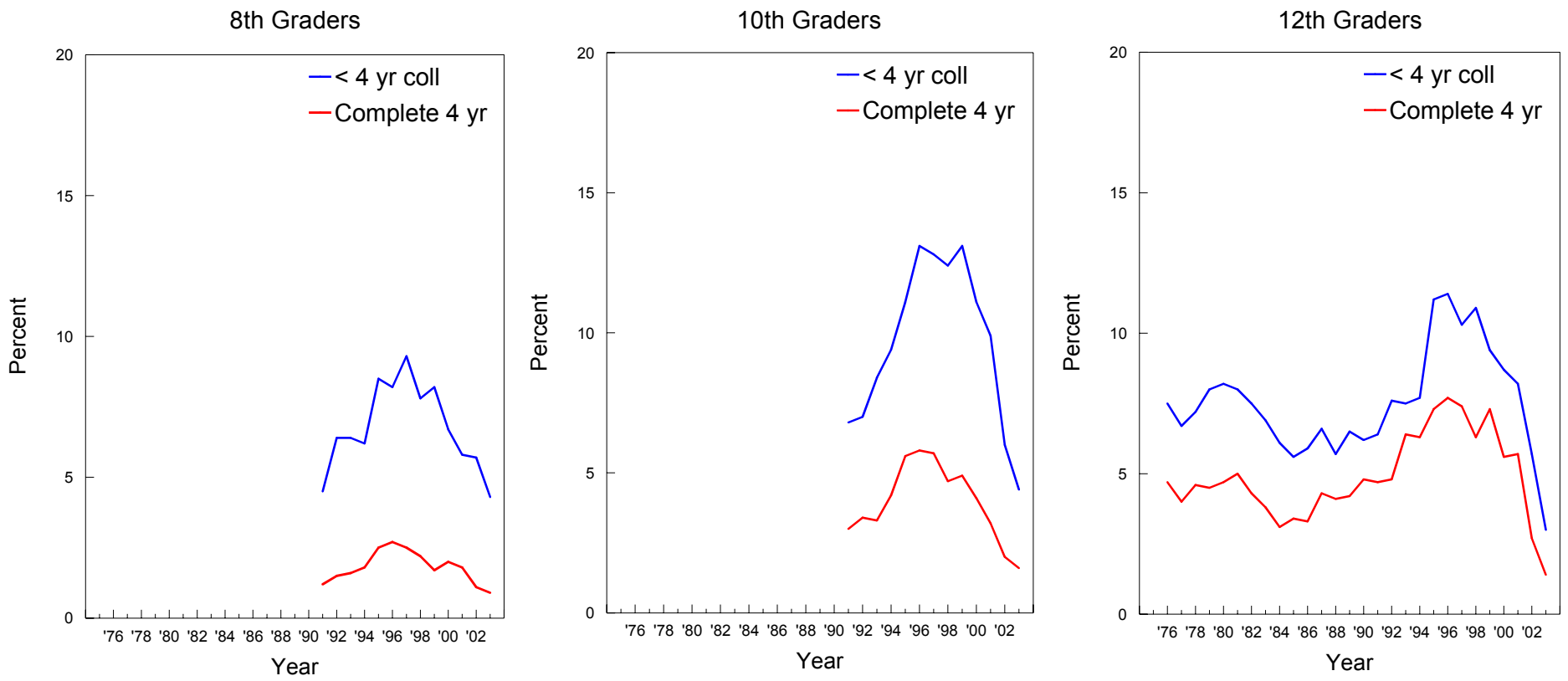
**These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

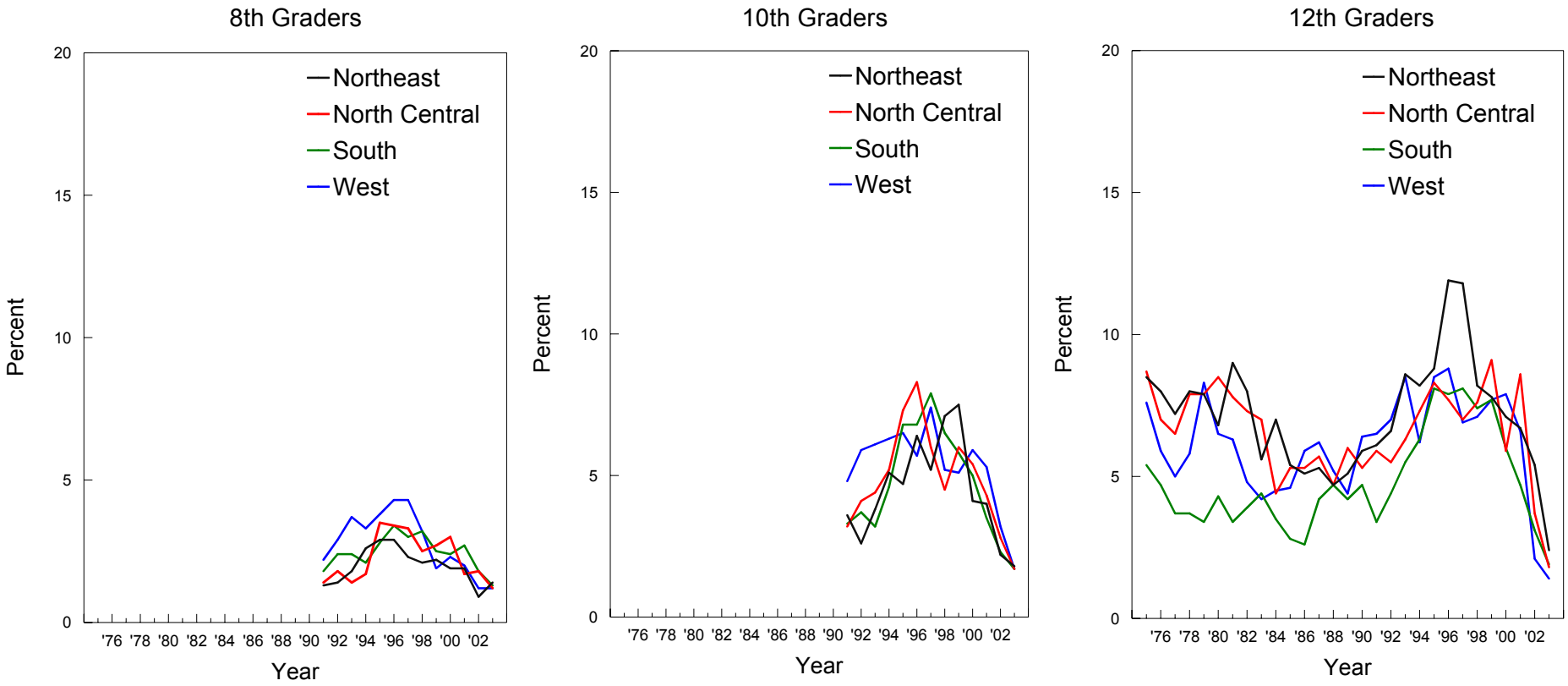
LSD: Trends in Annual Prevalence by Gender



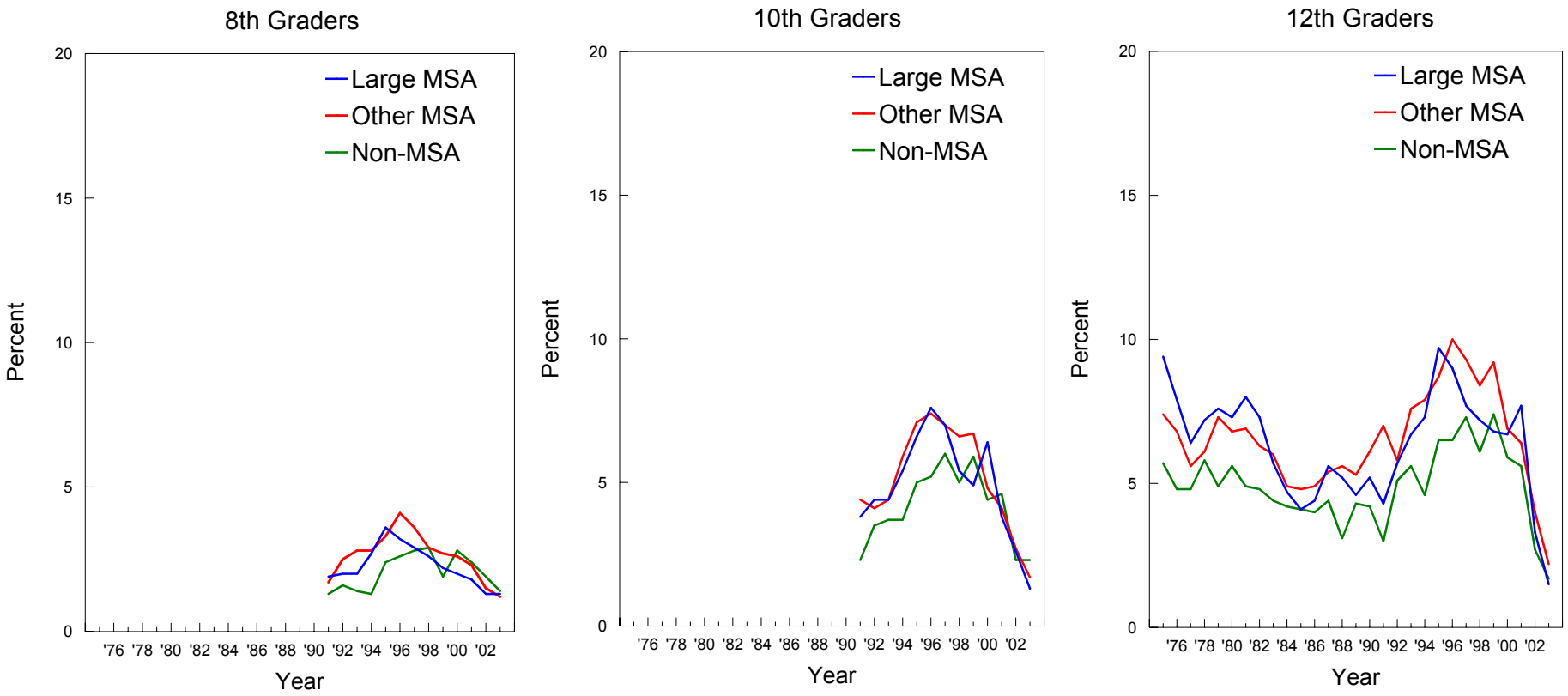
LSD: Trends in Annual Prevalence by College Plans



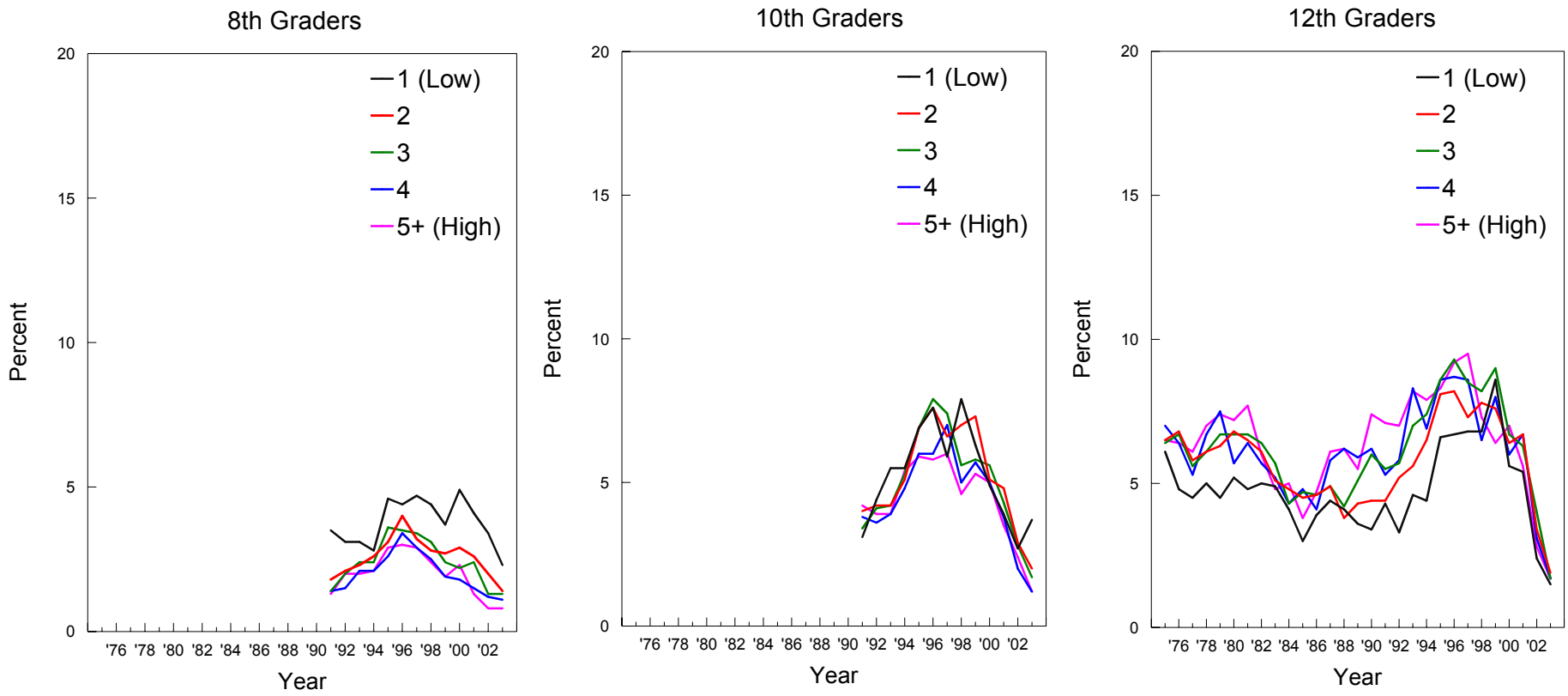
LSD: Trends in Annual Prevalence by Region



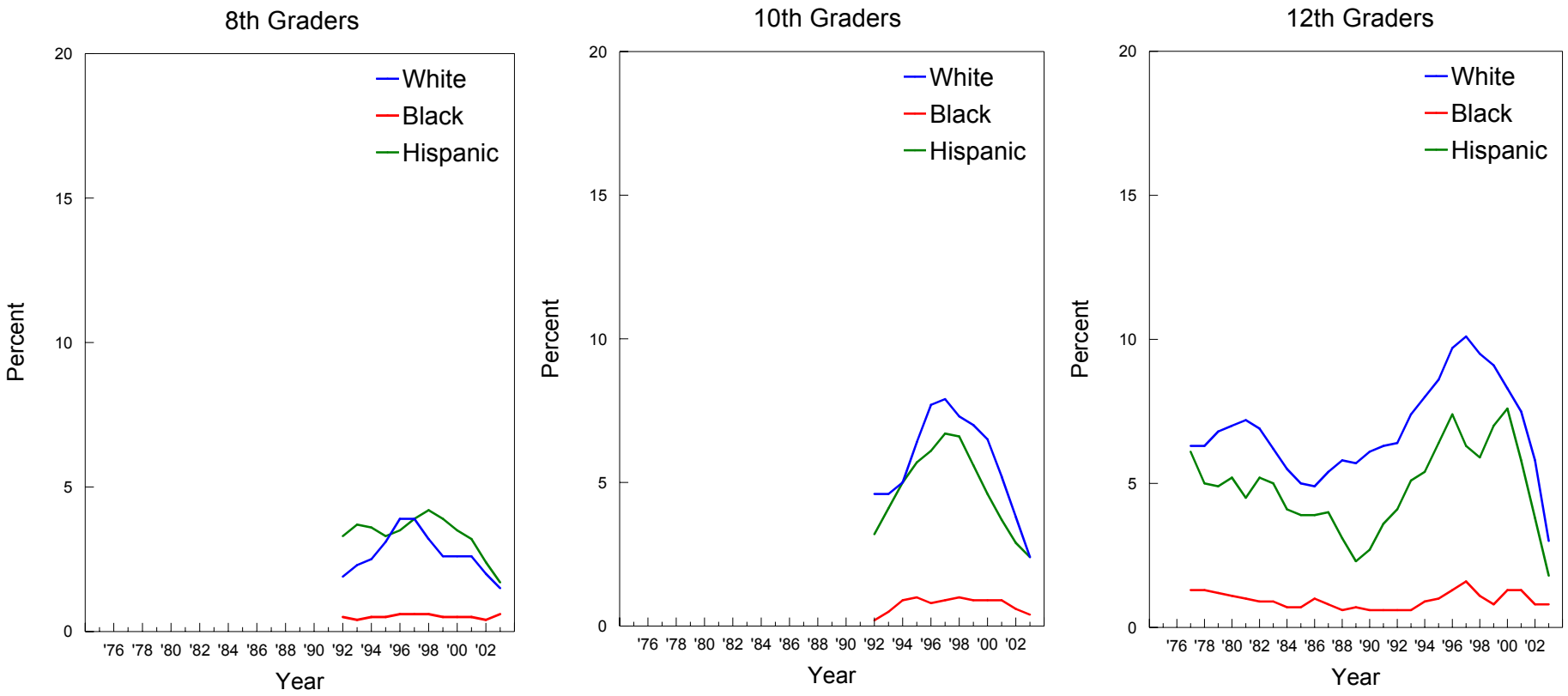
LSD: Trends in Annual Prevalence by Population Density



LSD: Trends in Annual Prevalence by Parents' Average Education

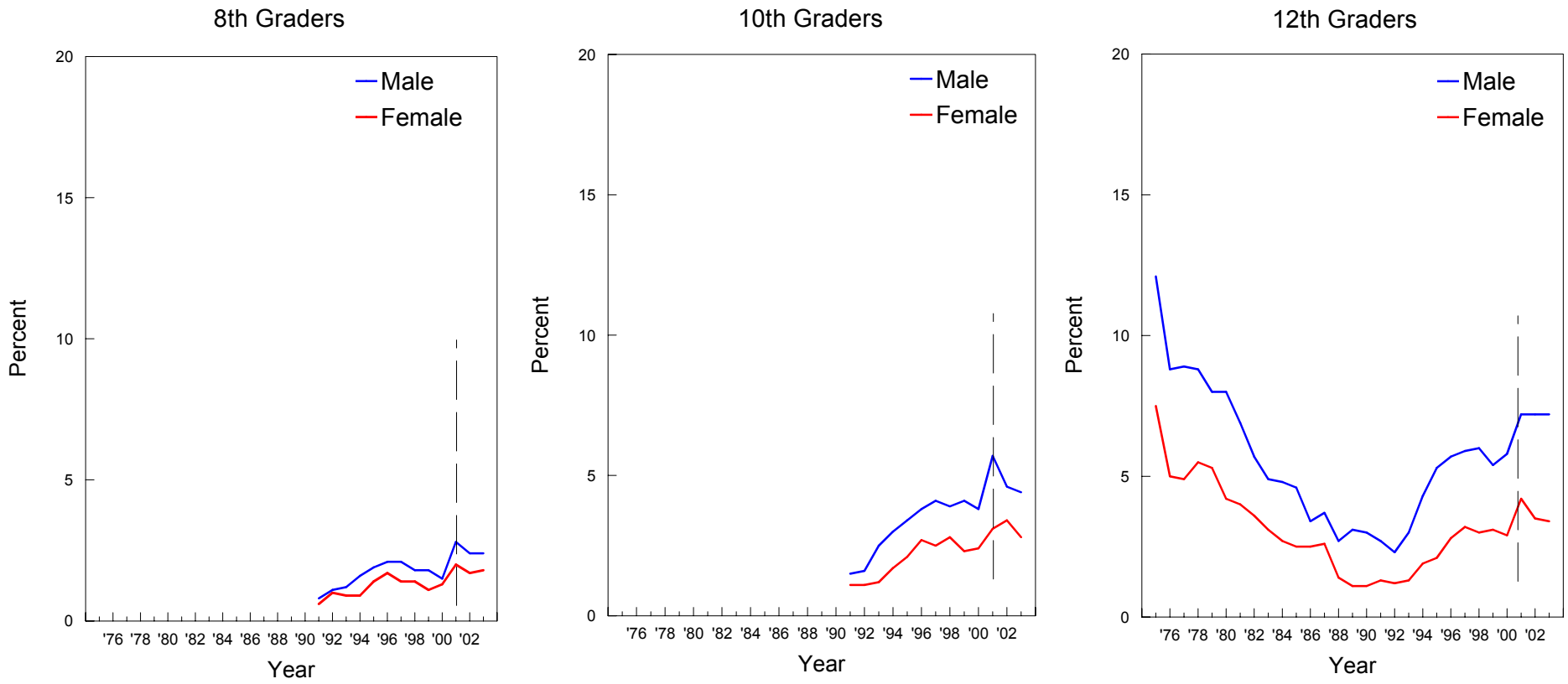


LSD: Trends in Annual Prevalence by Race/Ethnicity*



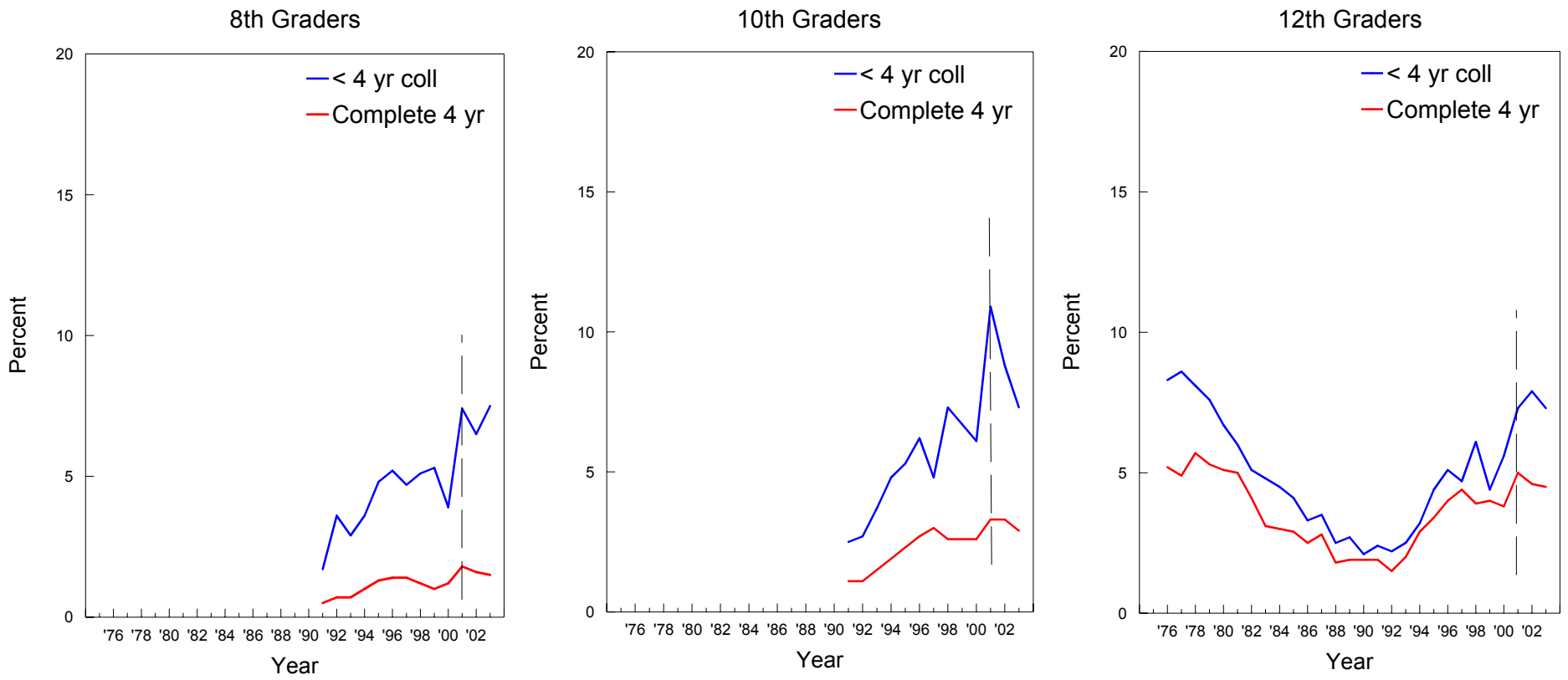
*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

Other Hallucinogens:* Trends in Annual Prevalence by Gender



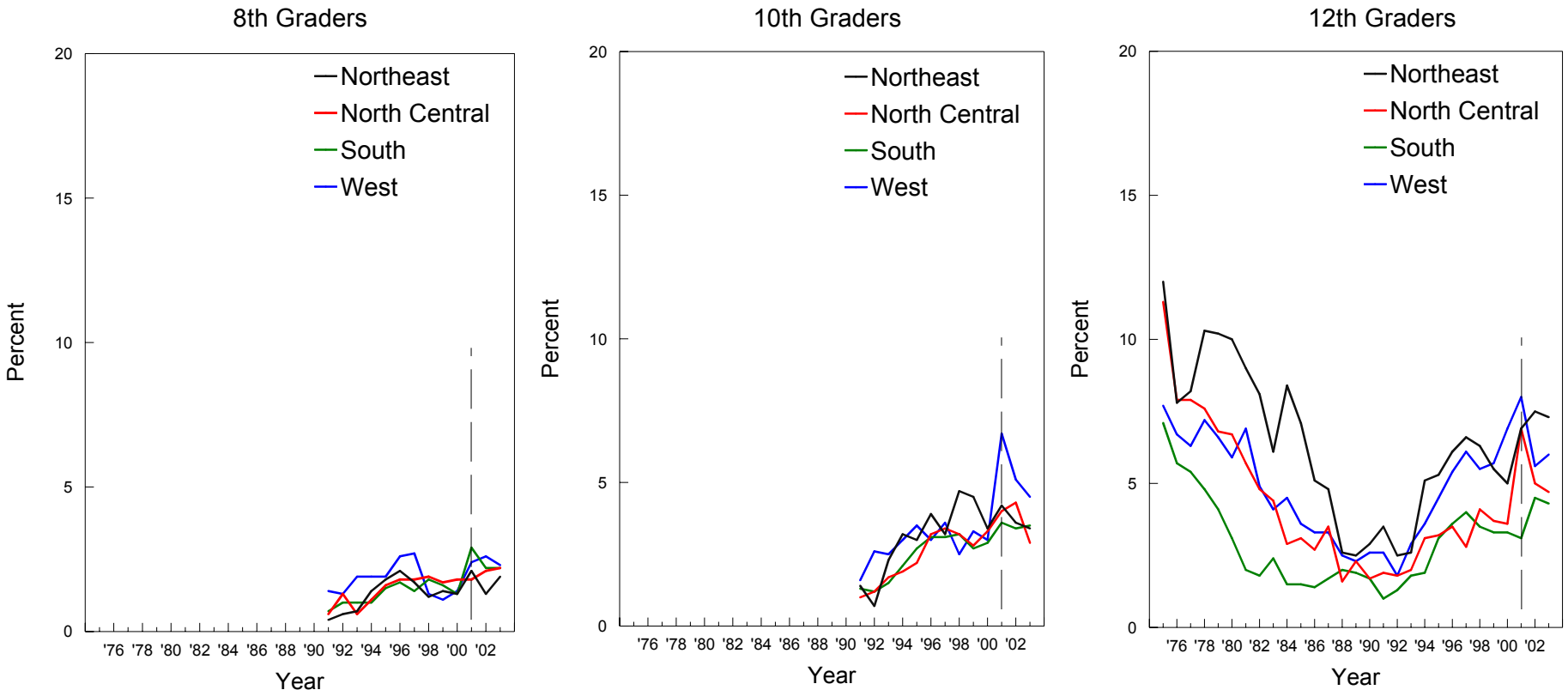
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Refer to corresponding tables for further details.

Other Hallucinogens:* Trends in Annual Prevalence by College Plans



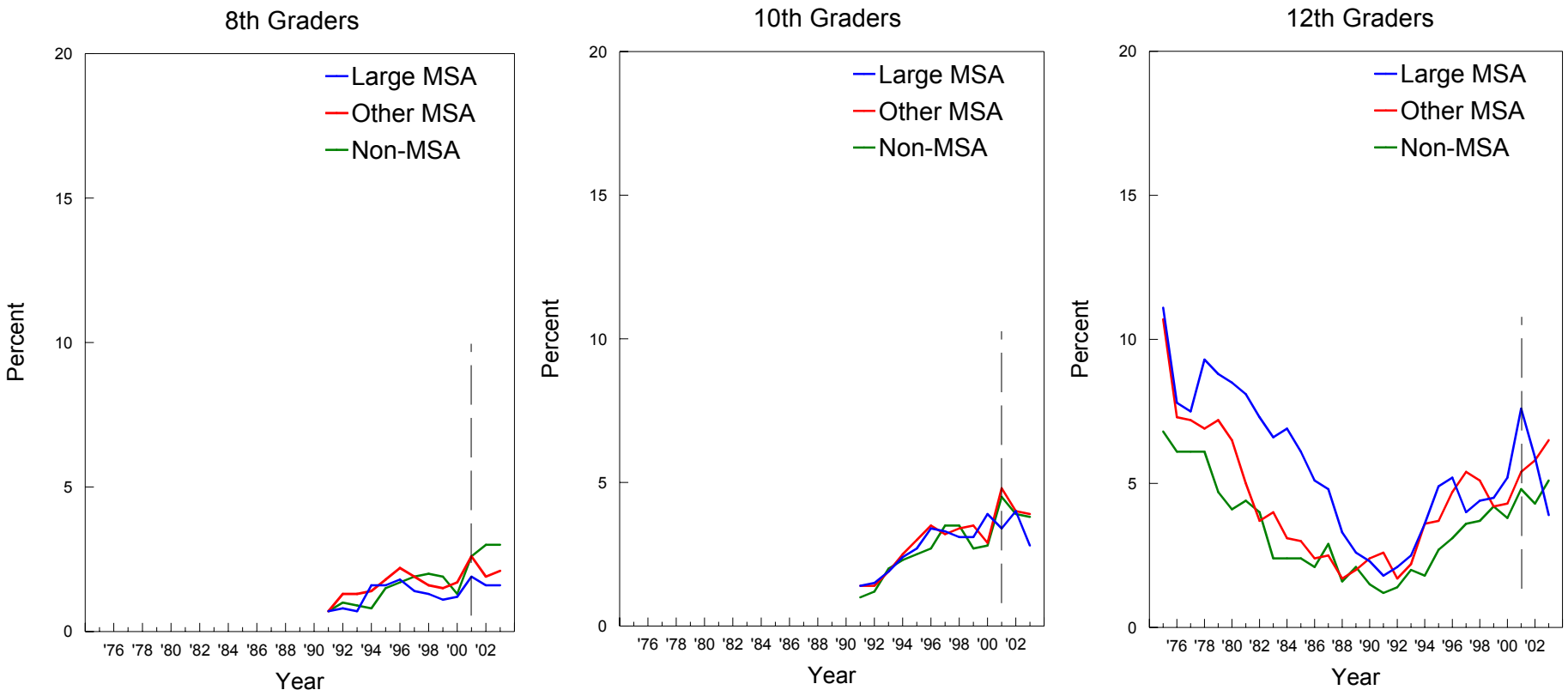
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Refer to corresponding tables for further details.

Other Hallucinogens:* Trends in Annual Prevalence by Region



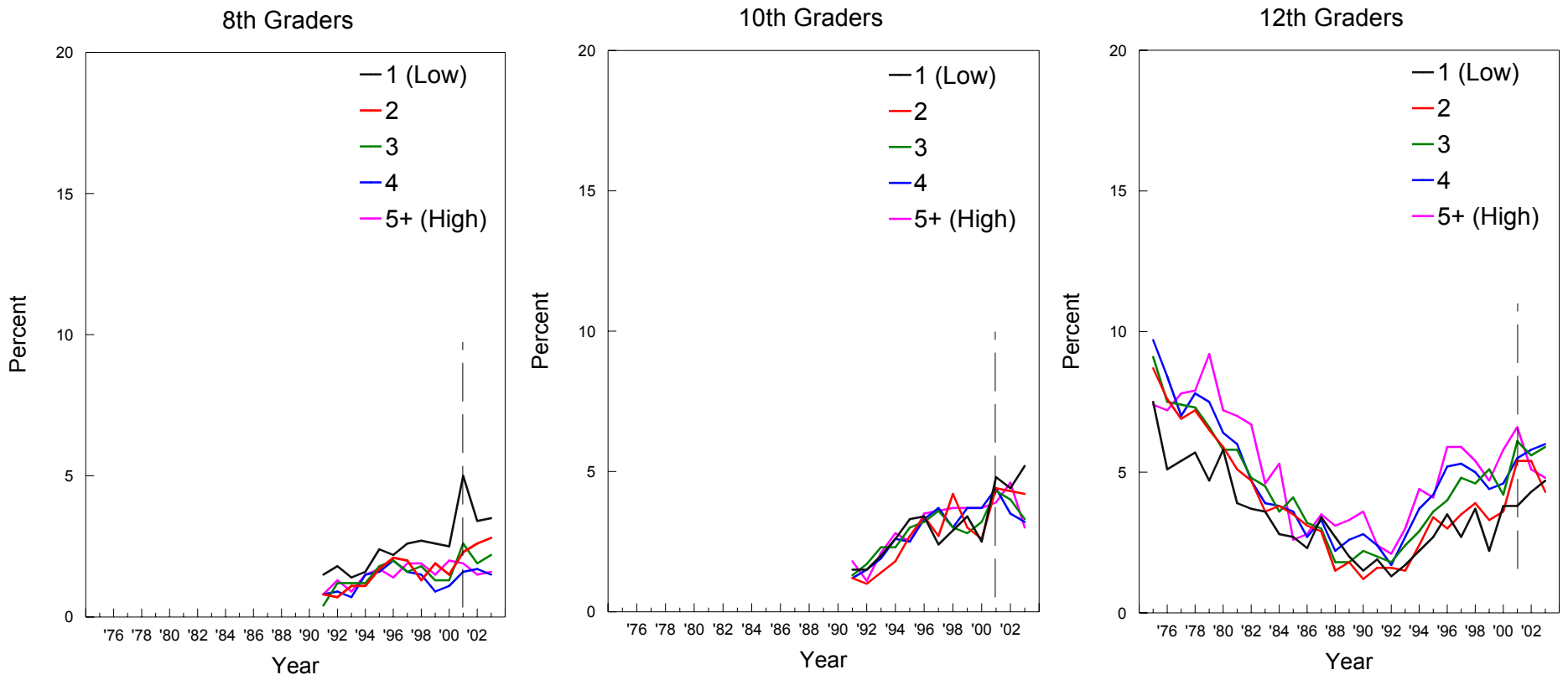
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Refer to corresponding tables for further details.

Other Hallucinogens:* Trends in Annual Prevalence by Population Density



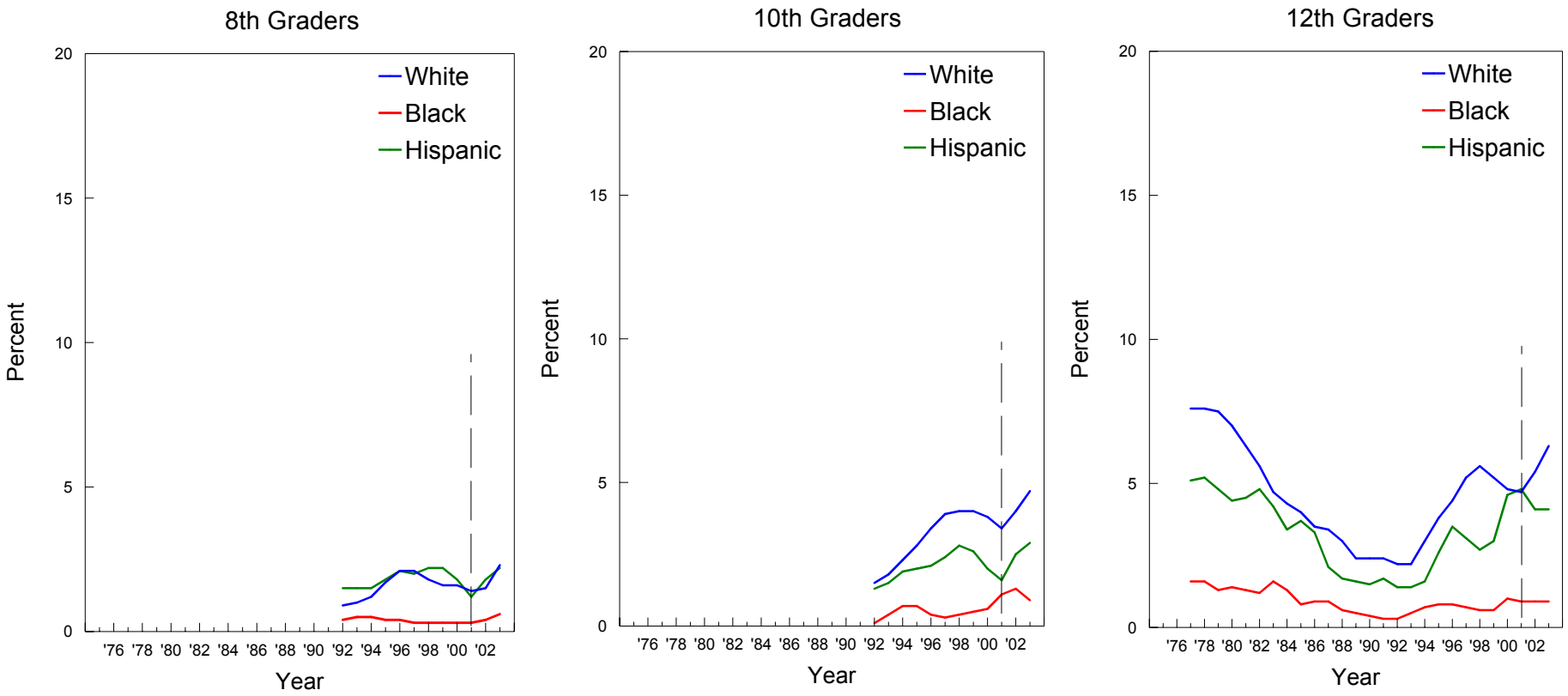
*Beginning in 2001, a revised set of questions on other hallucinogen use was introduced. Refer to corresponding tables for further details.

Other Hallucinogens:* Trends in Annual Prevalence by Parents' Average Education



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

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



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

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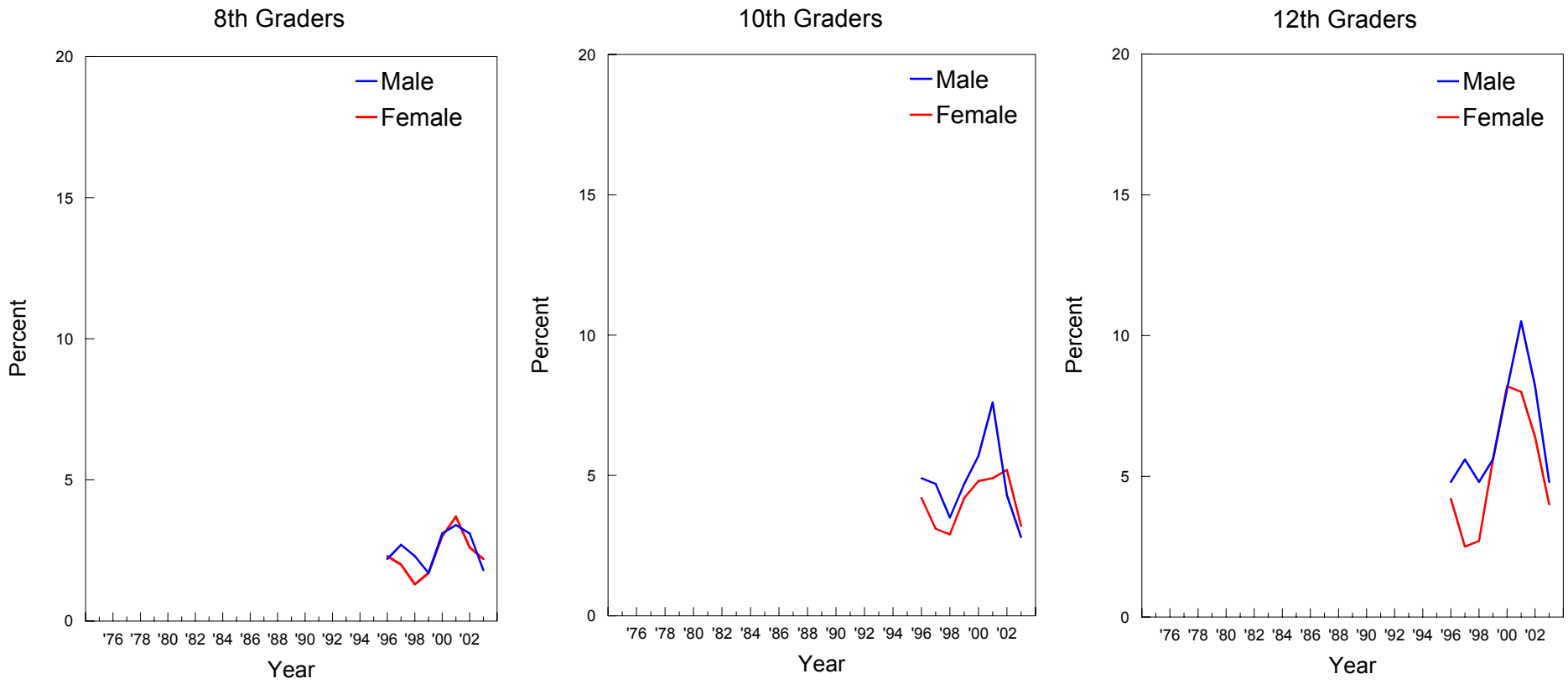
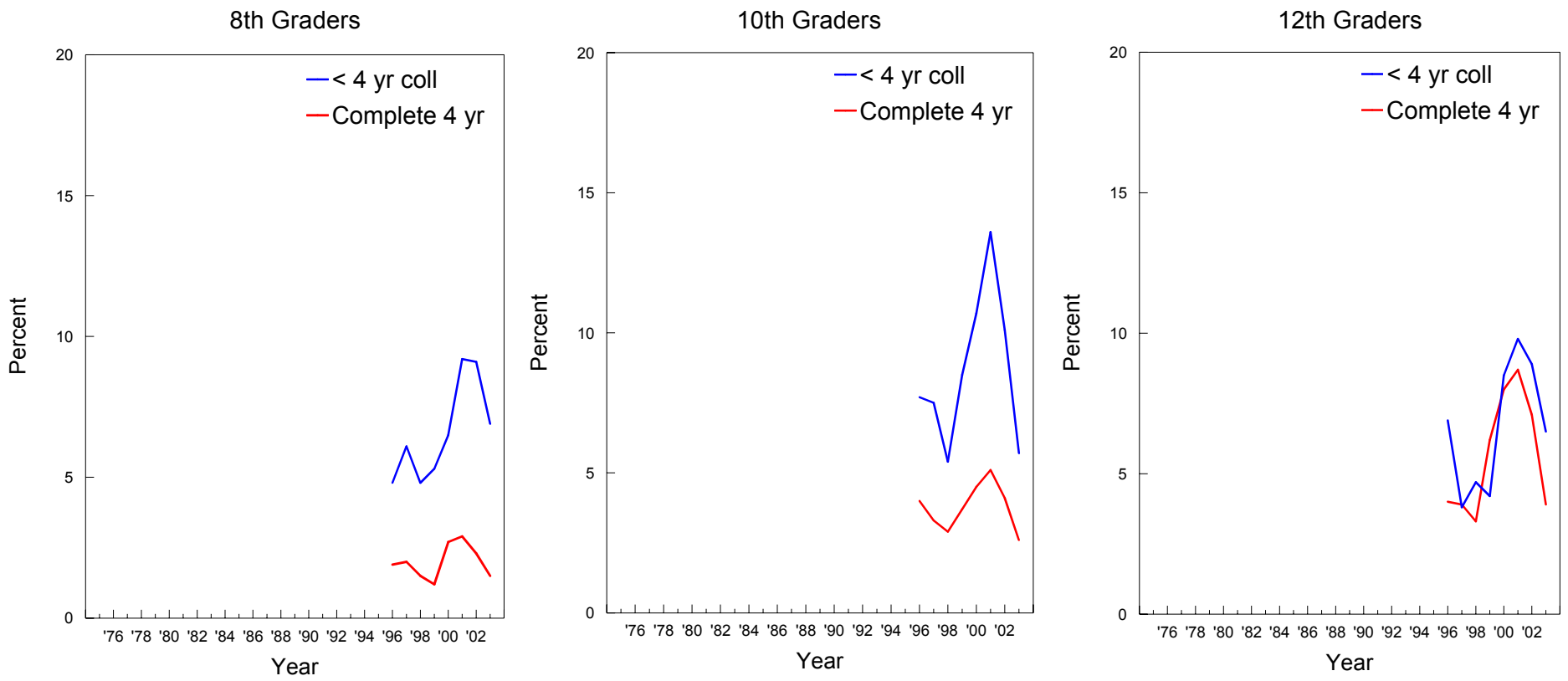
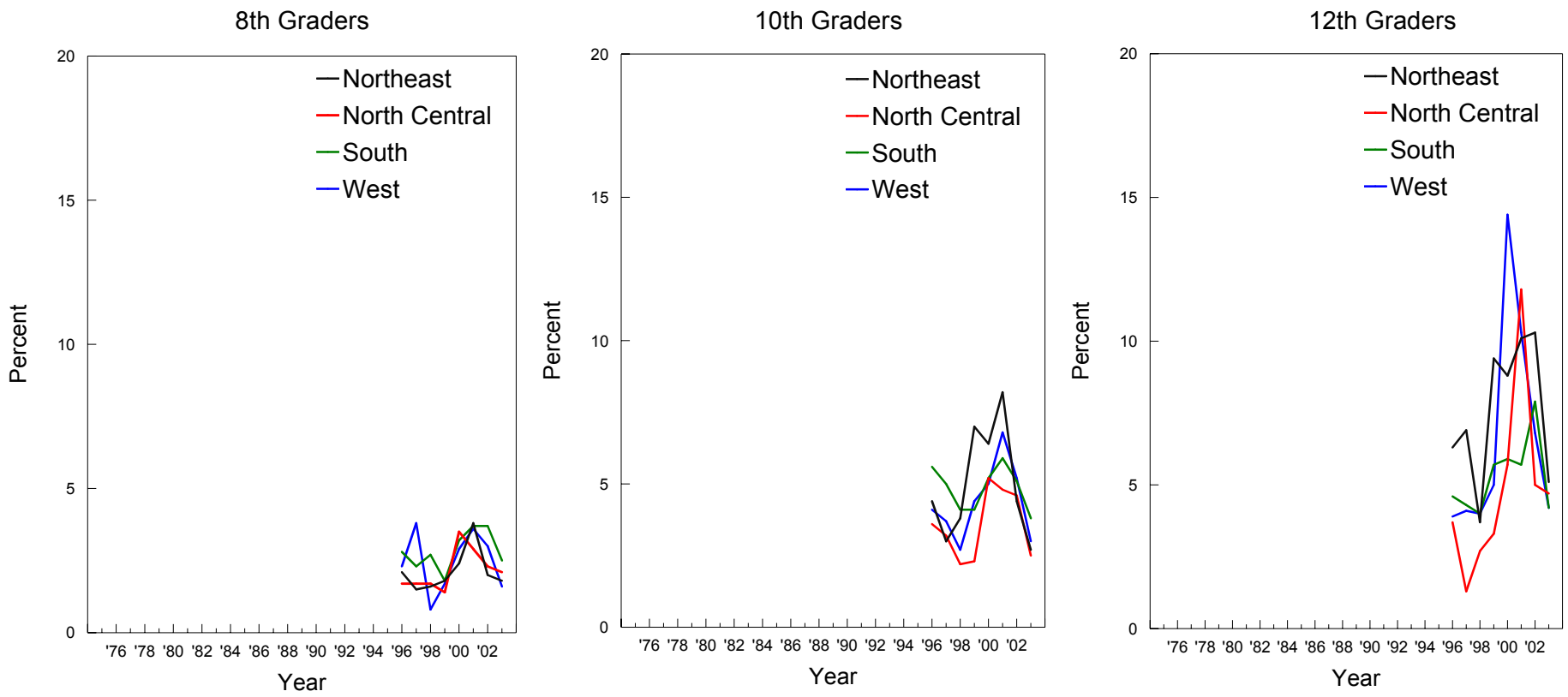
MDMA (Ecstasy): Trends in Annual Prevalence by Gender



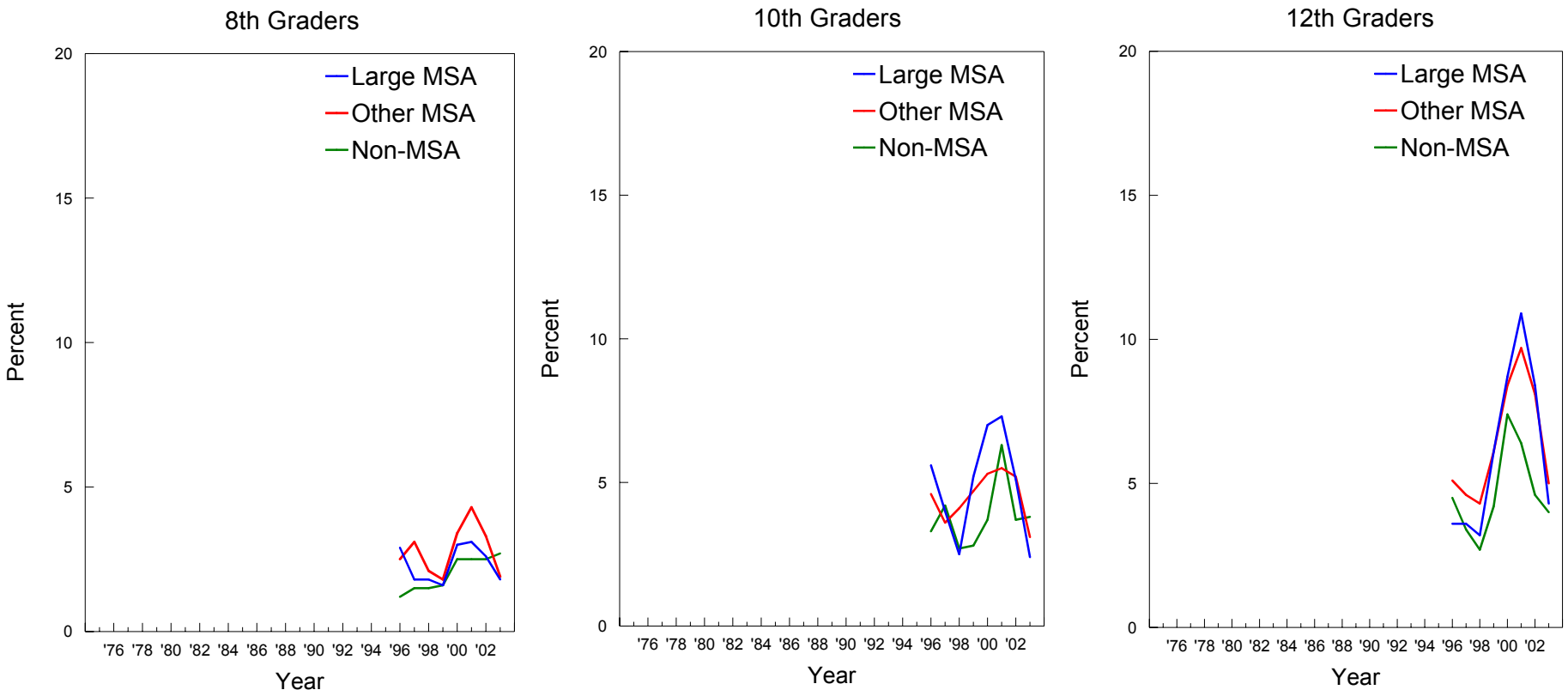
MDMA (Ecstasy): Trends in Annual Prevalence by College Plans



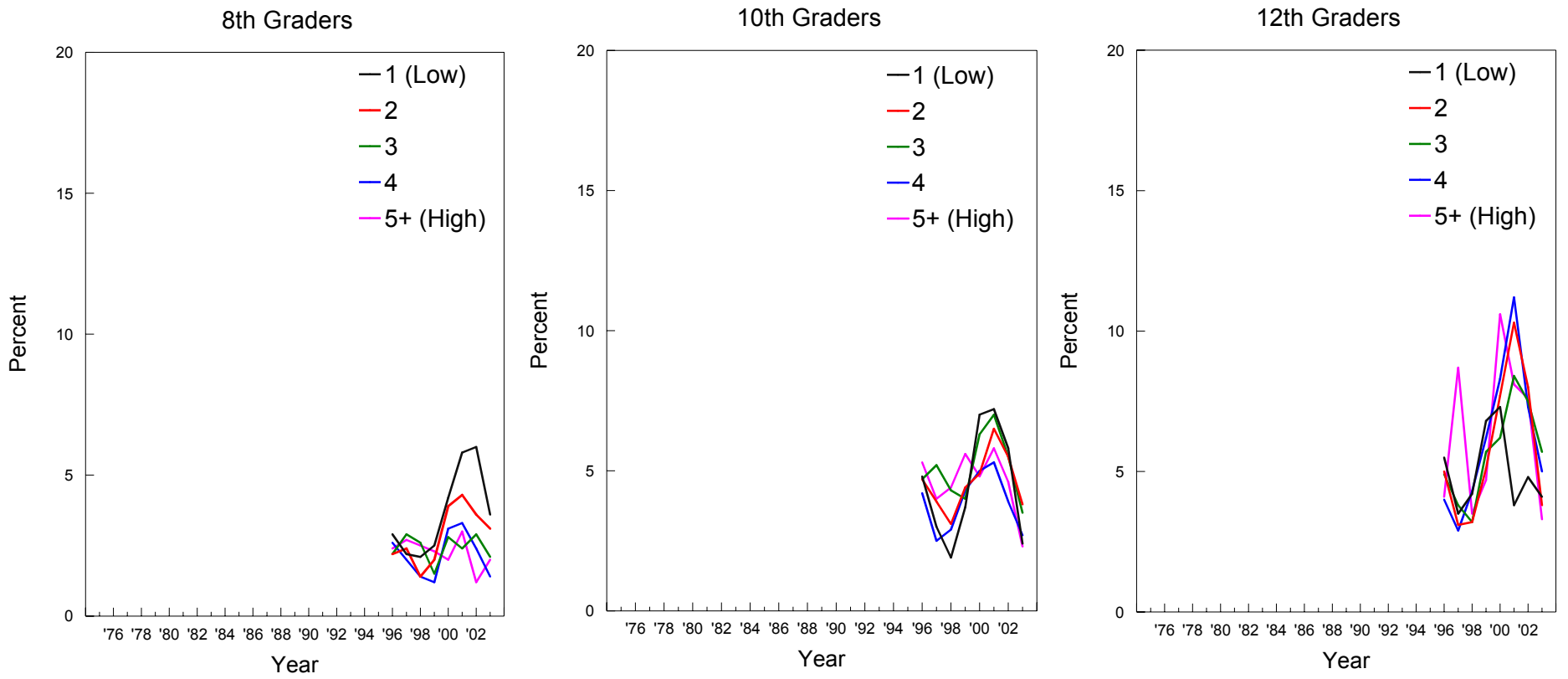
MDMA (Ecstasy): Trends in Annual Prevalence by Region



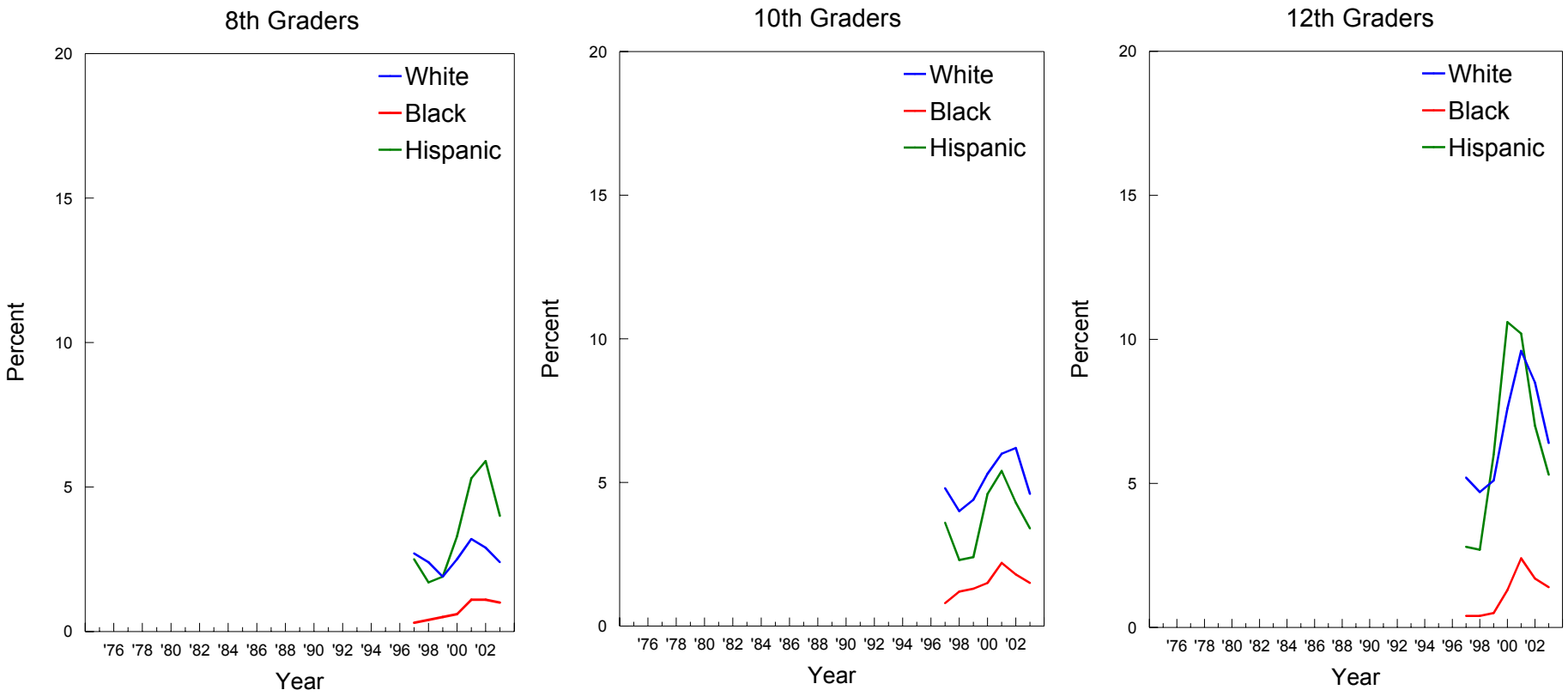
MDMA (Ecstasy): Trends in Annual Prevalence by Population Density



MDMA (Ecstasy): Trends in Annual Prevalence by Parents' Average Education

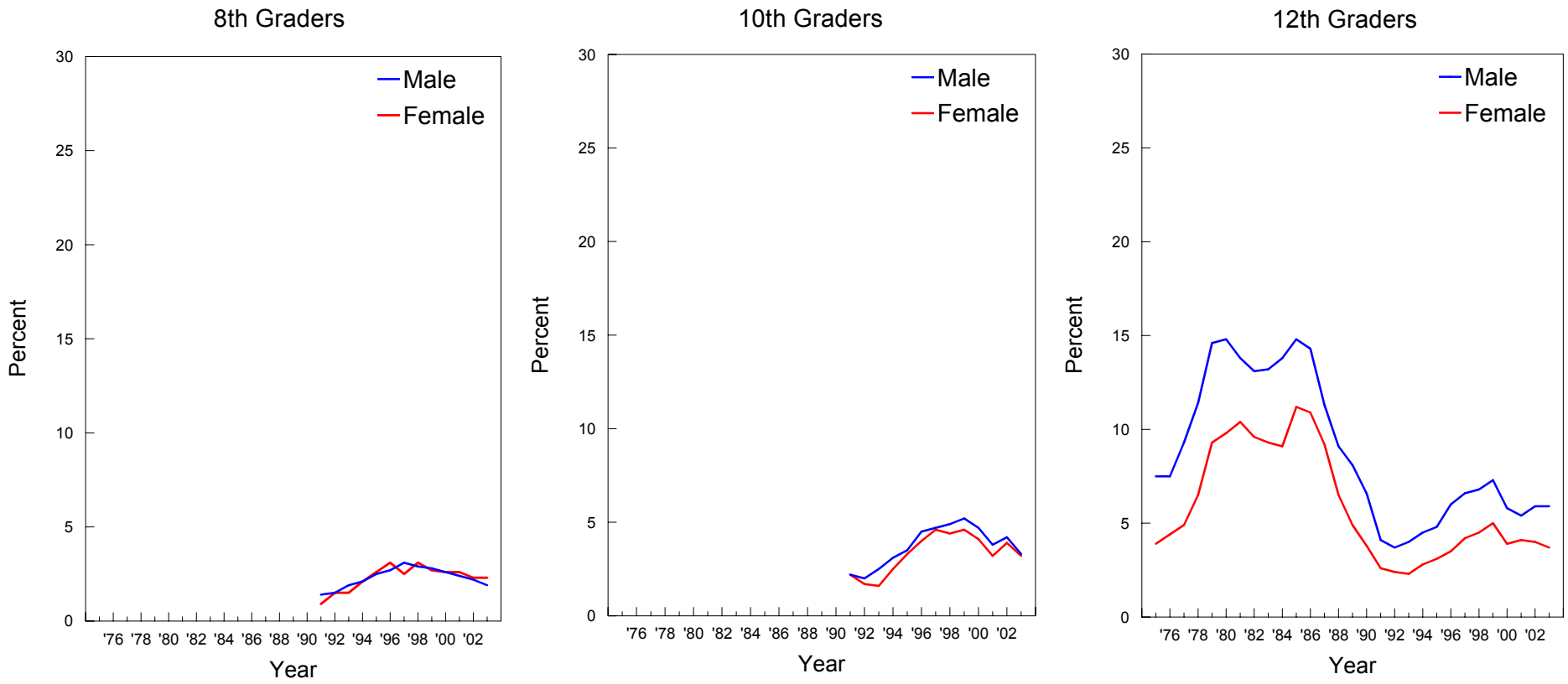


MDMA (Ecstasy): Trends in Annual Prevalence by Race/Ethnicity*

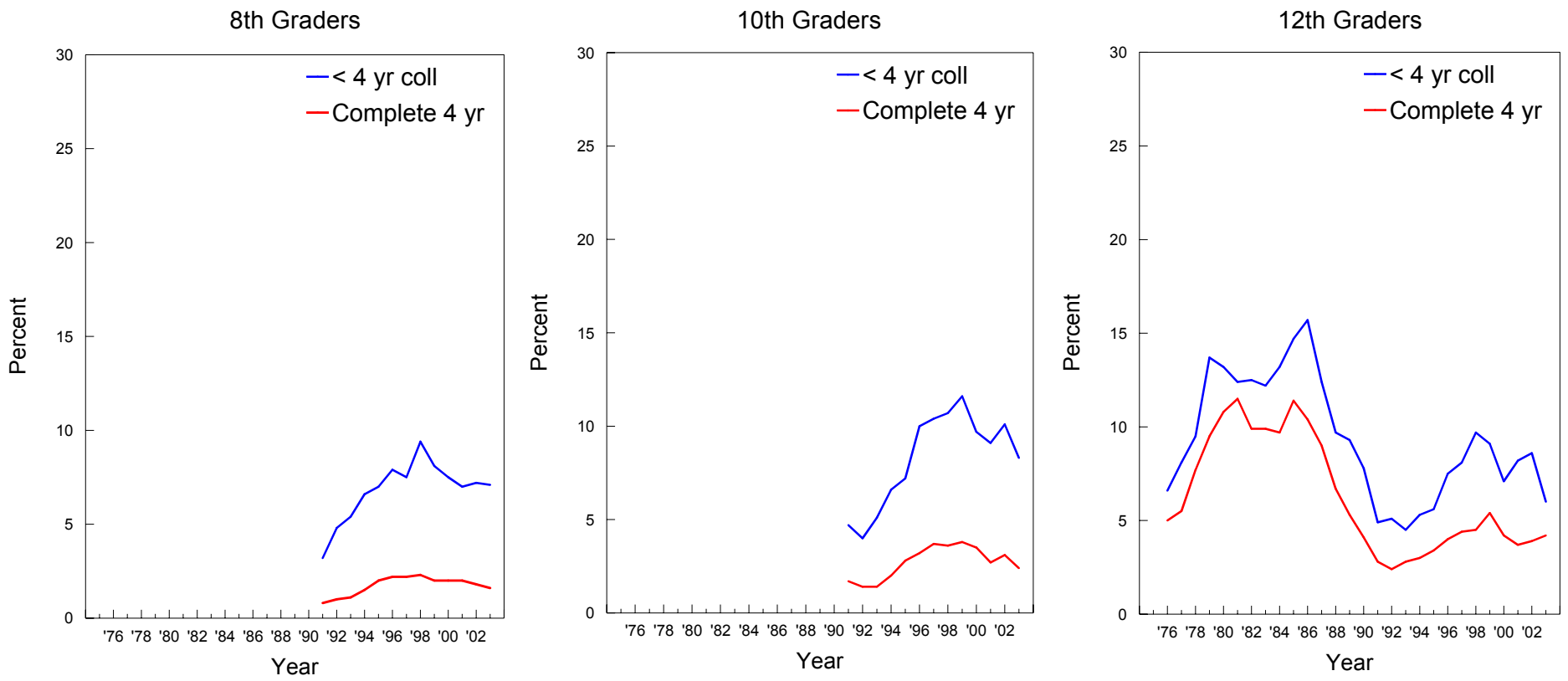


*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

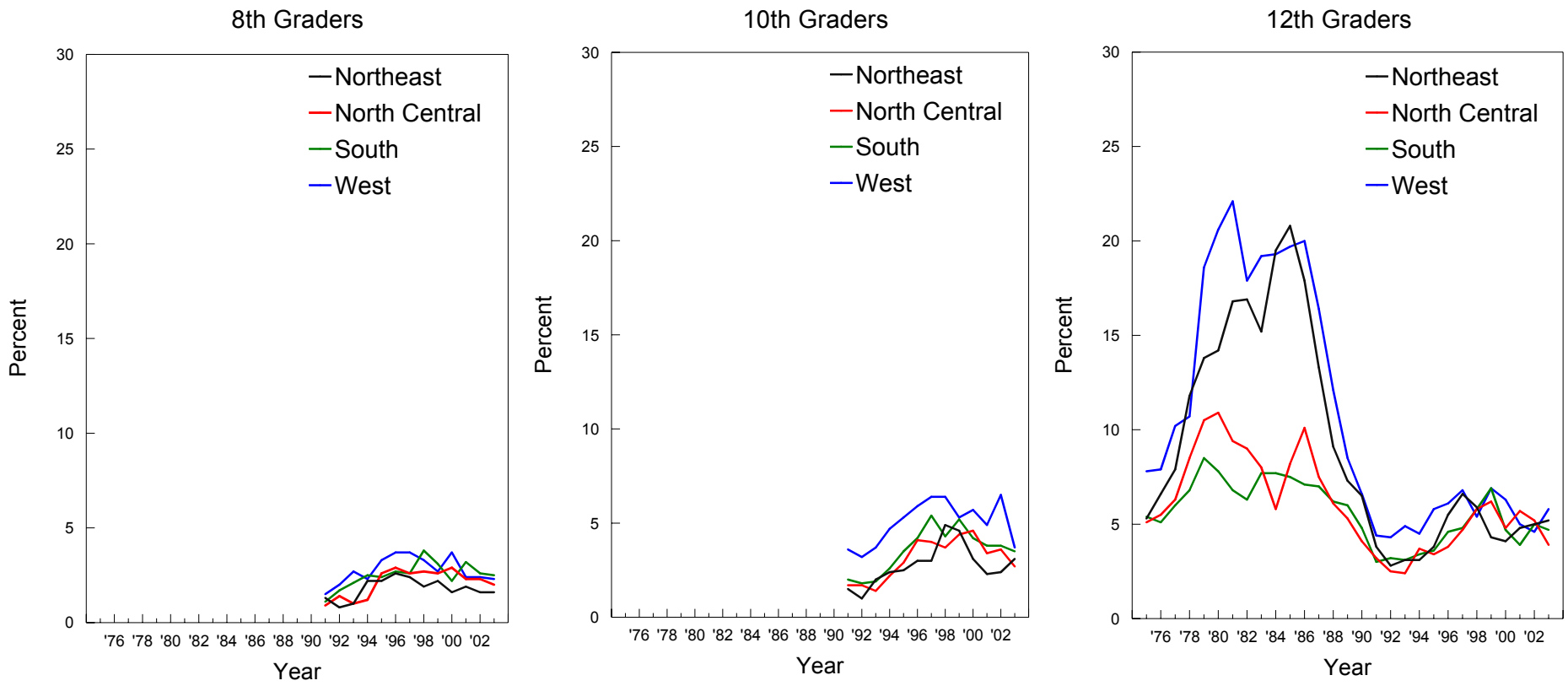
Cocaine: Trends in Annual Prevalence by Gender



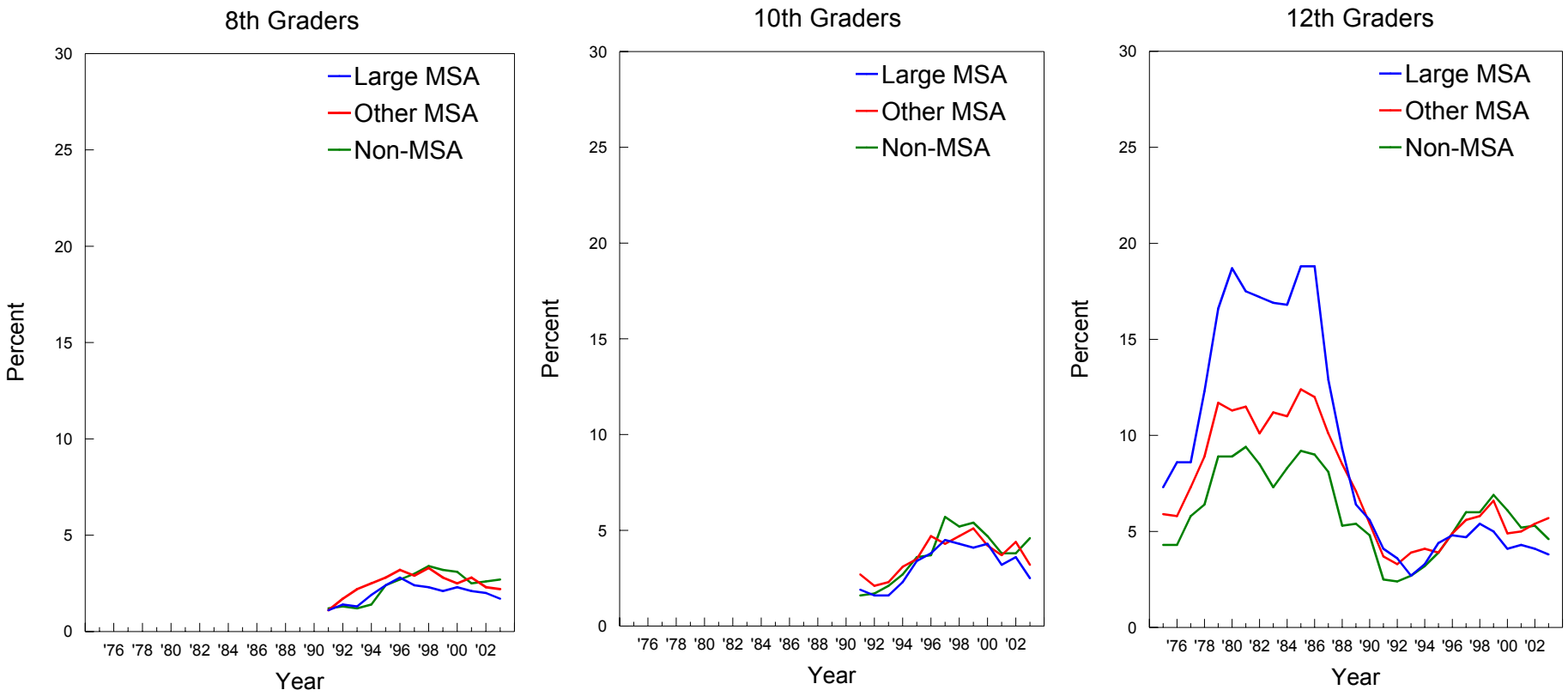
Cocaine: Trends in Annual Prevalence by College Plans



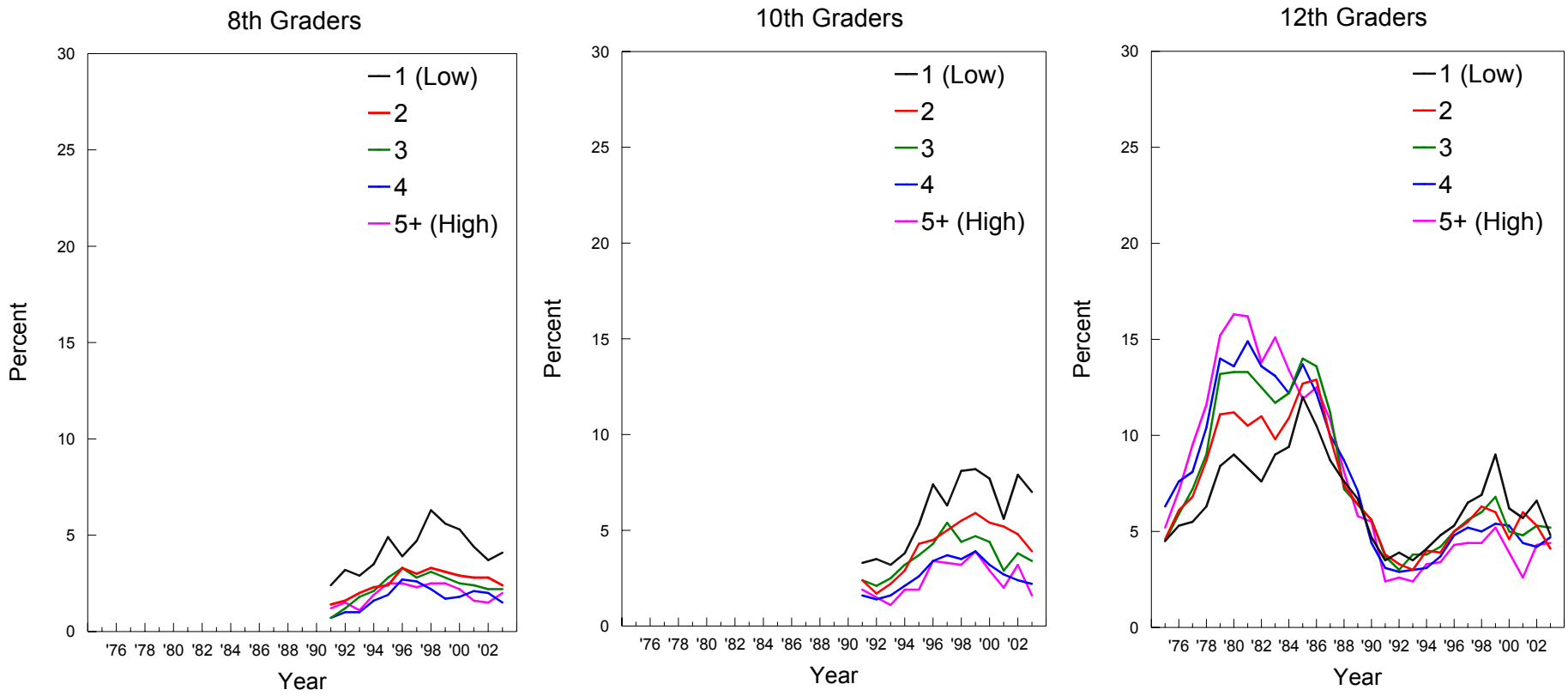
Cocaine: Trends in Annual Prevalence by Region



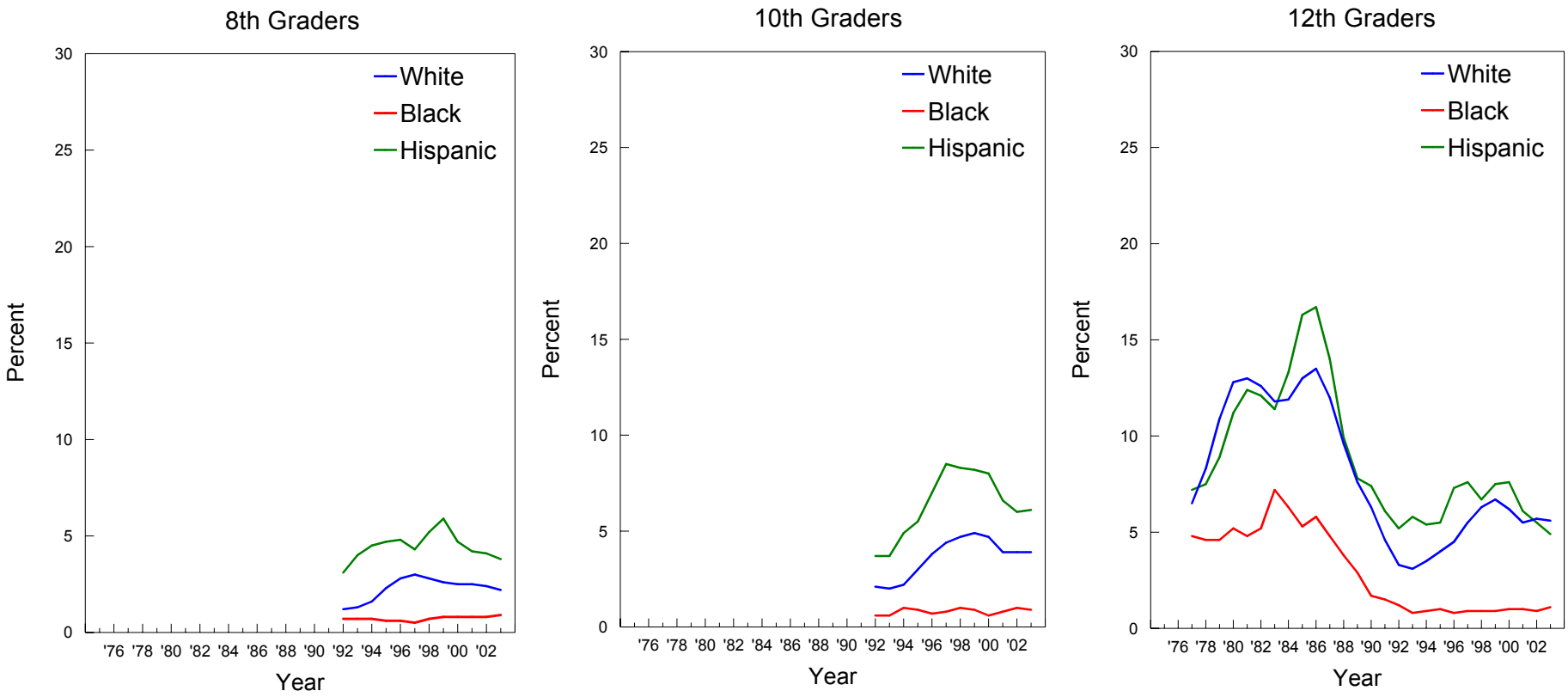
Cocaine: Trends in Annual Prevalence by Population Density



Cocaine: Trends in Annual Prevalence by Parents' Average Education



Cocaine: Trends in Annual Prevalence by Race/Ethnicity*



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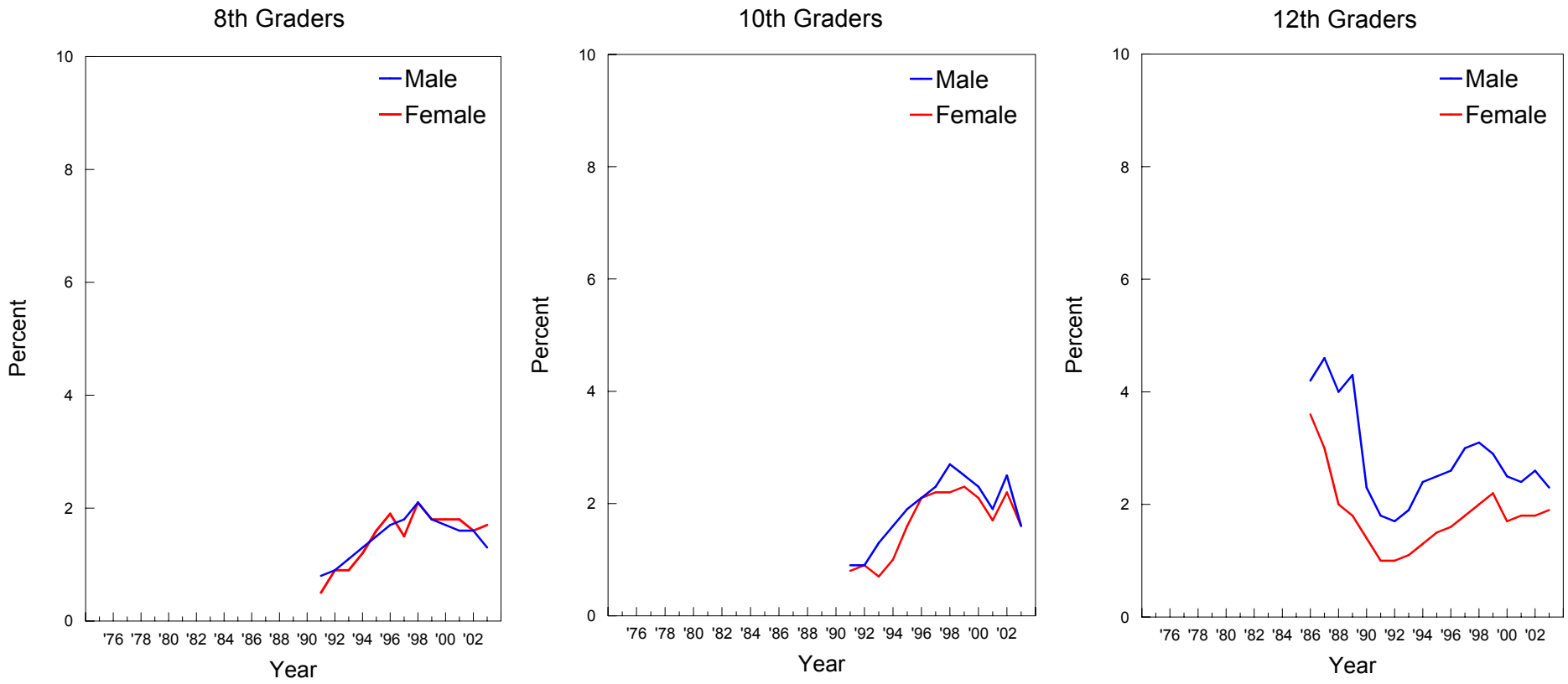
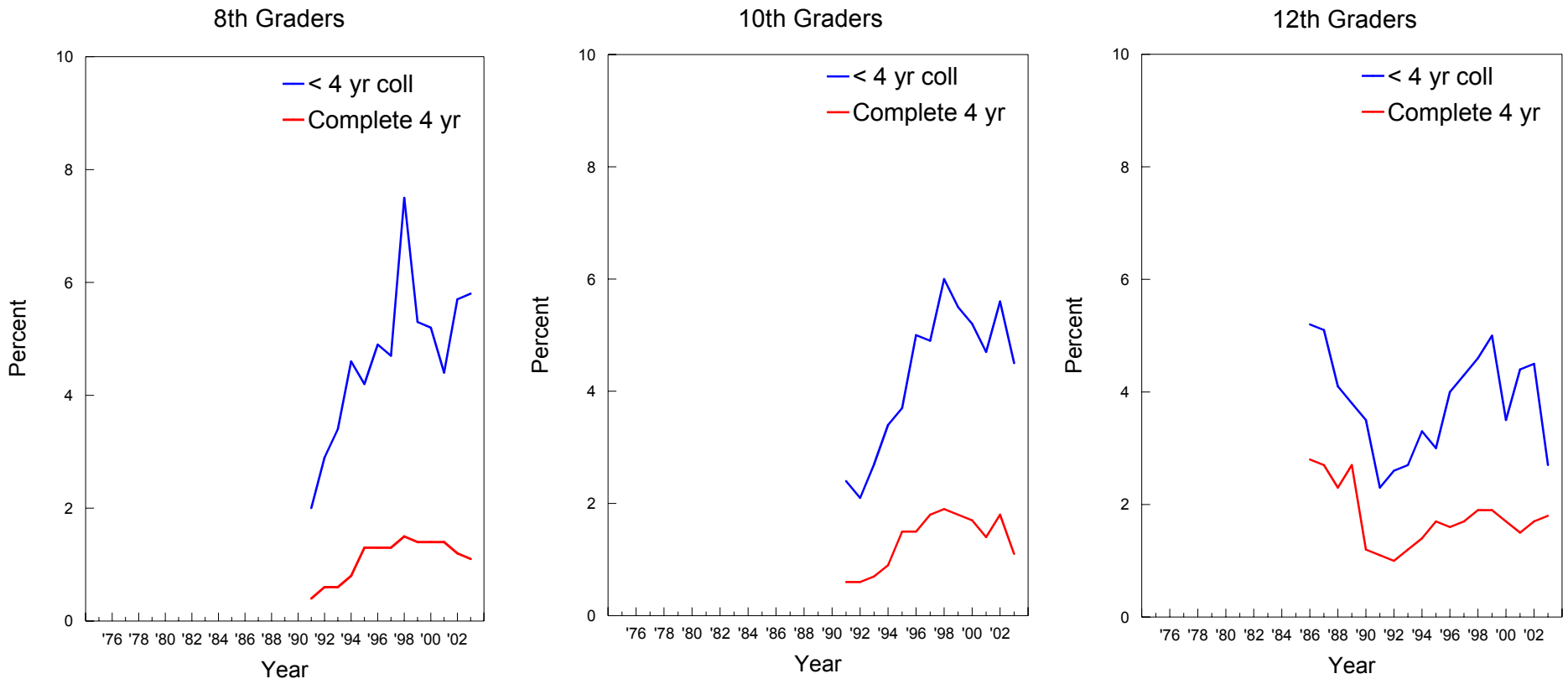
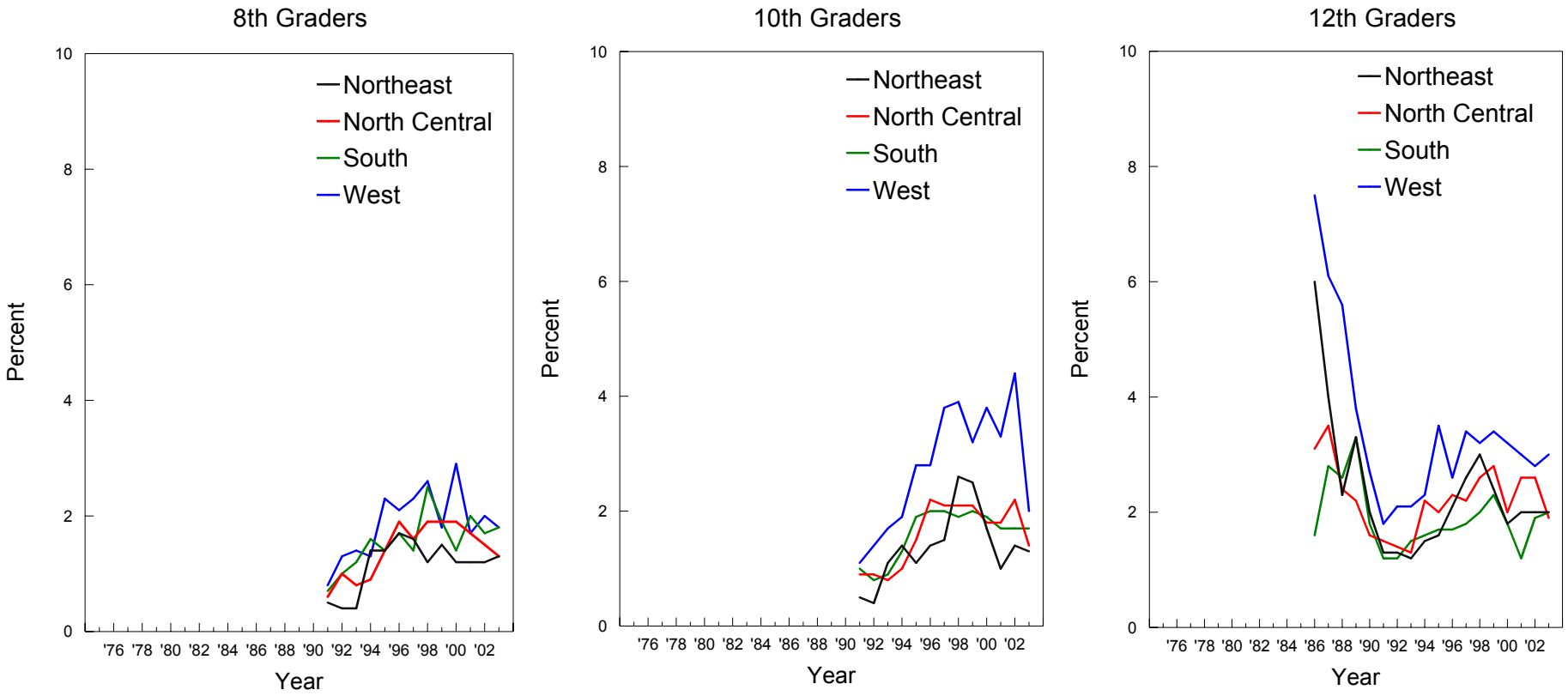
Crack: Trends in Annual Prevalence by Gender



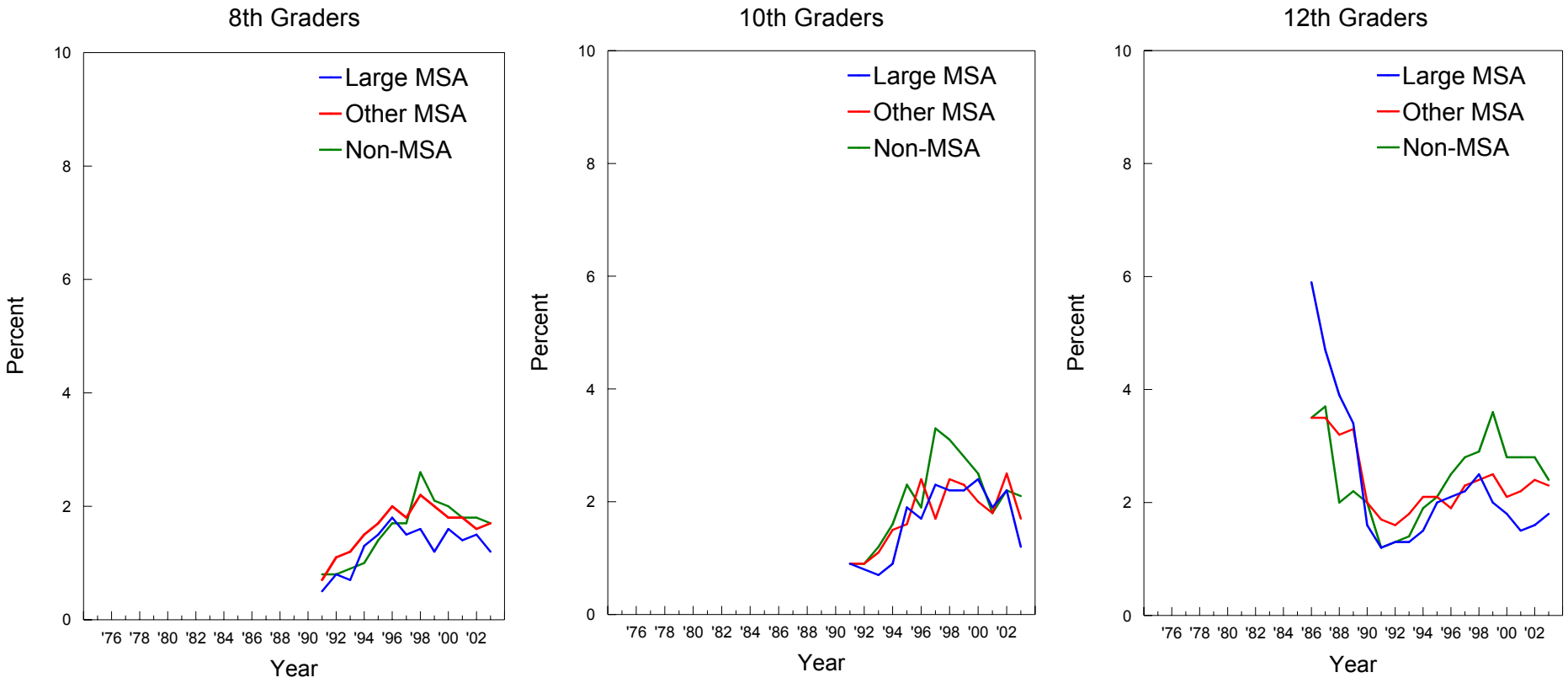
Crack: Trends in Annual Prevalence by College Plans



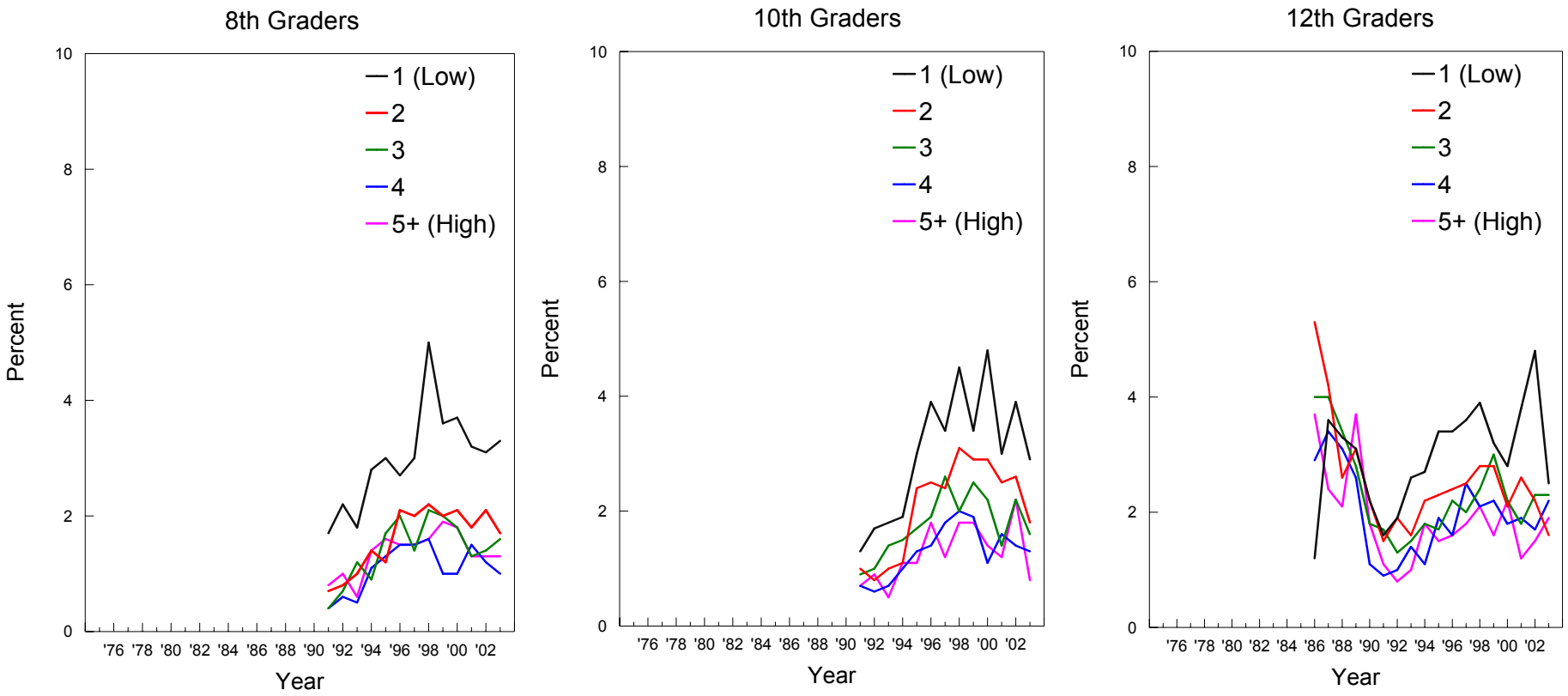
Crack: Trends in Annual Prevalence by Region



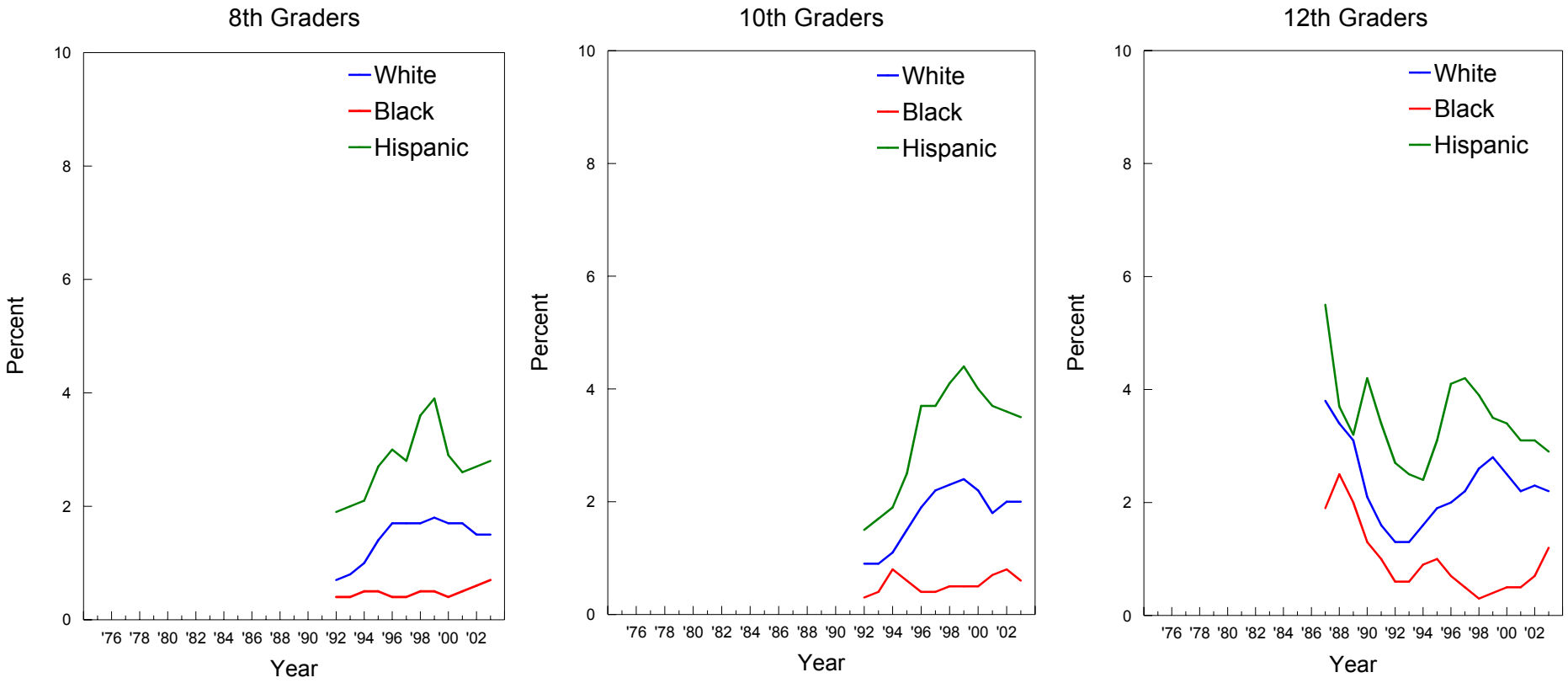
Crack: Trends in Annual Prevalence by Population Density



Crack: Trends in Annual Prevalence by Parents' Average Education

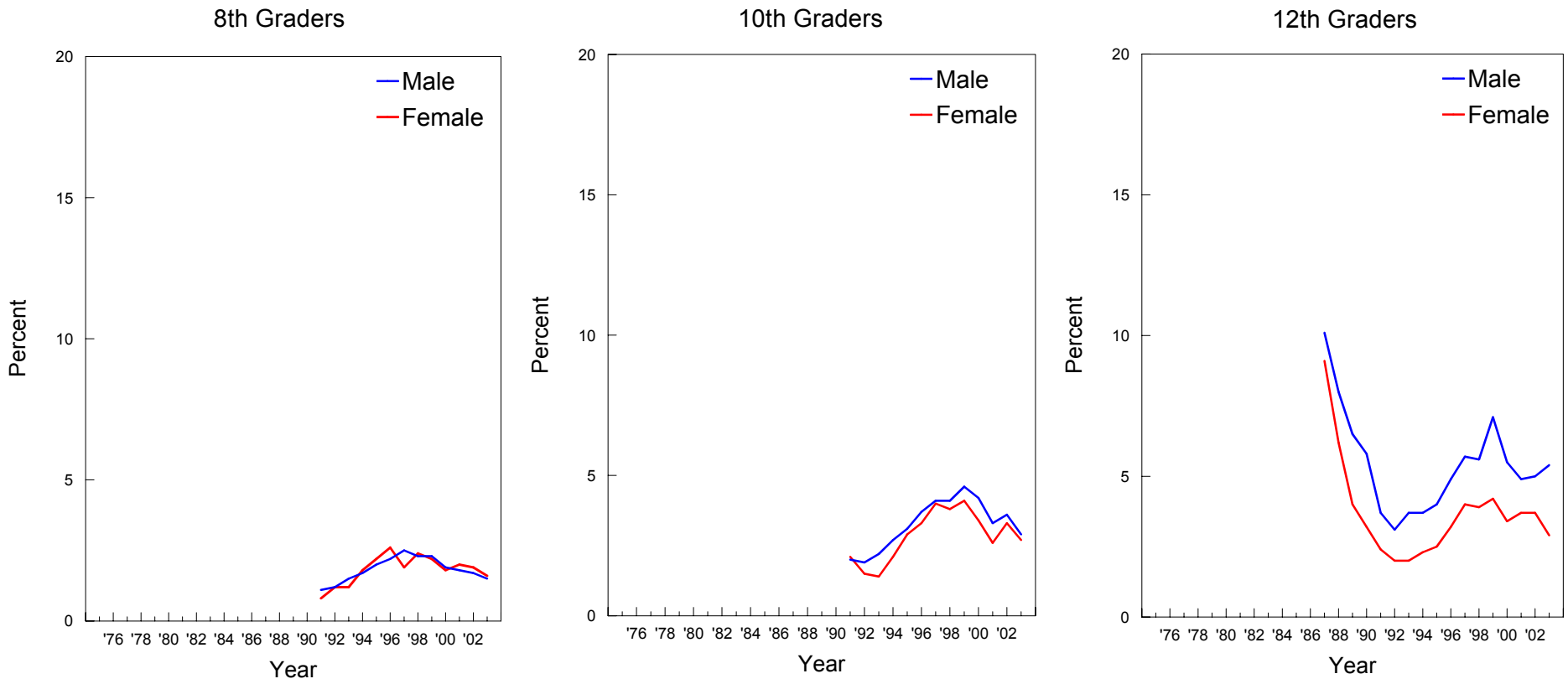


Crack: Trends in Annual Prevalence by Race/Ethnicity*

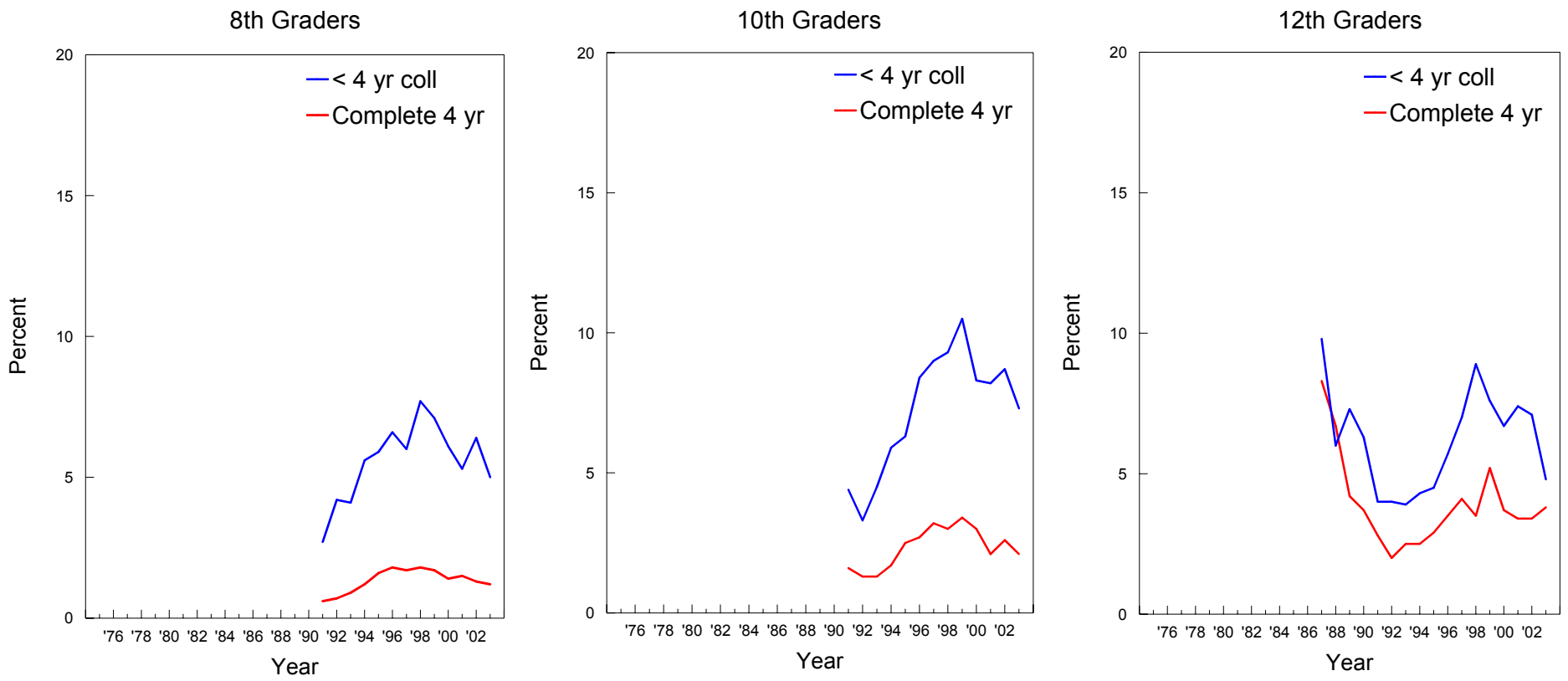


*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

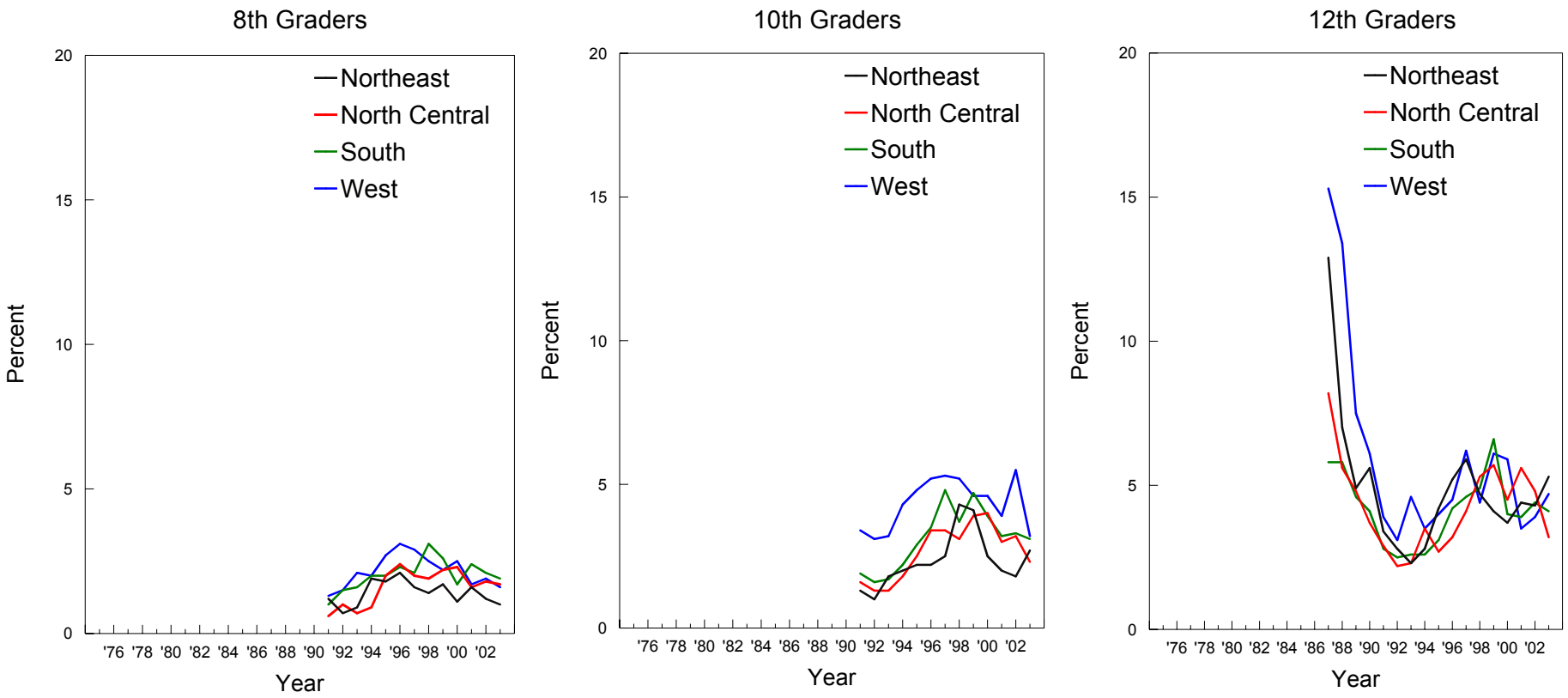
Other Cocaine: Trends in Annual Prevalence by Gender



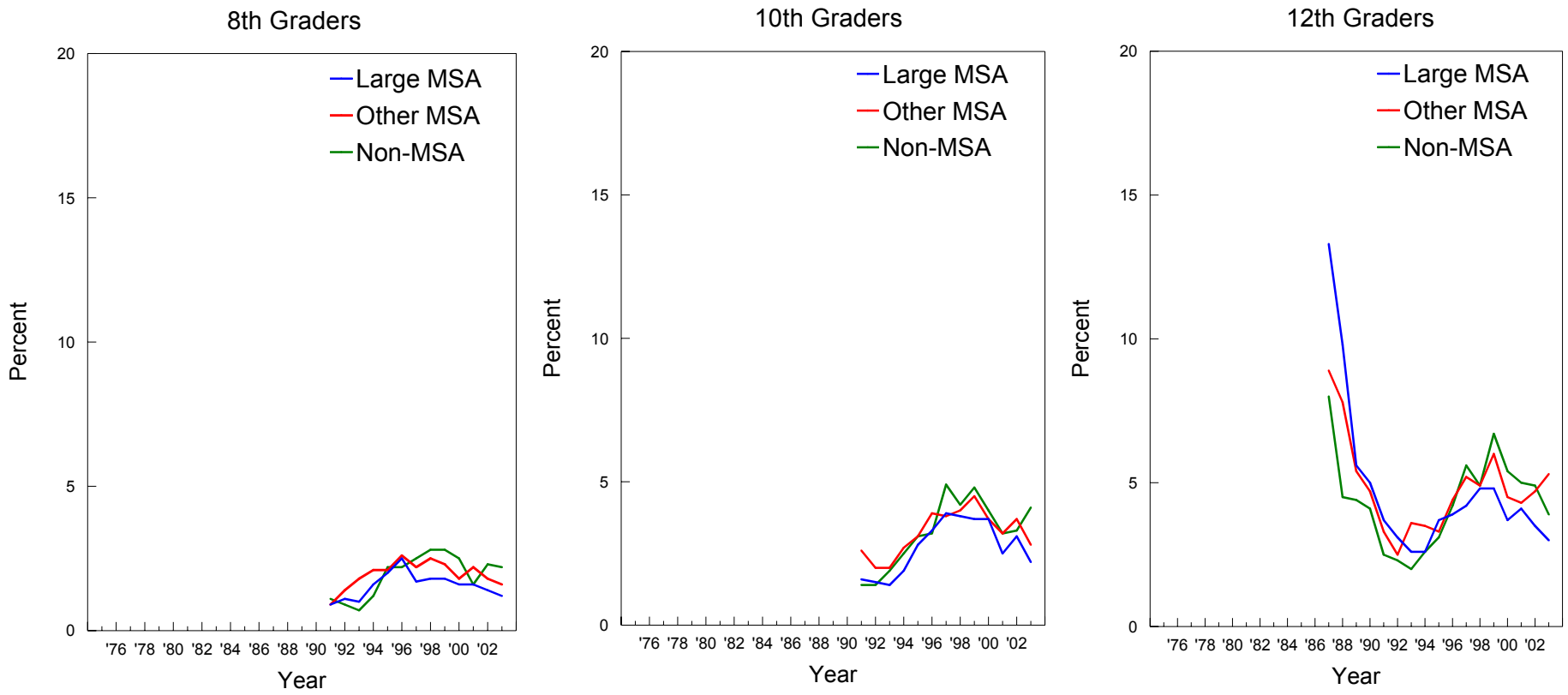
Other Cocaine: Trends in Annual Prevalence by College Plans



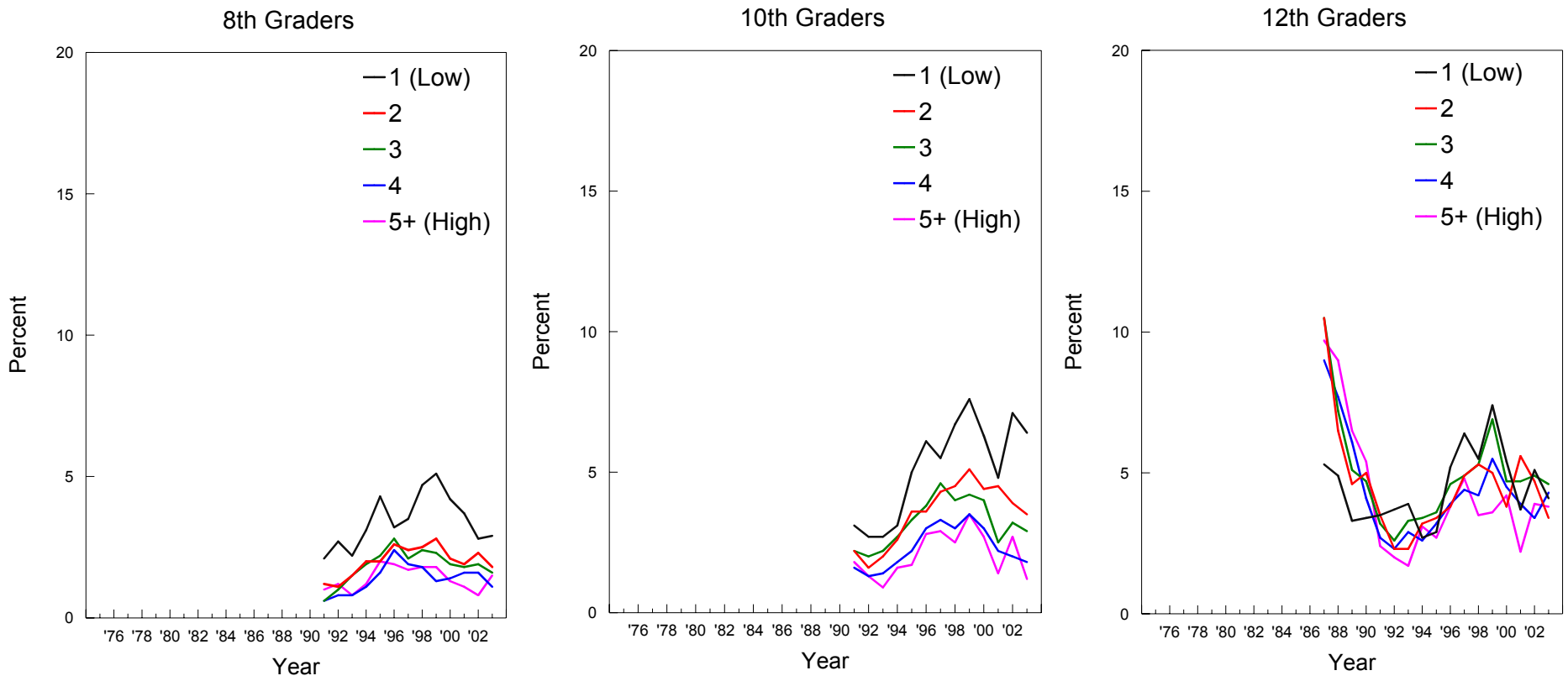
Other Cocaine: Trends in Annual Prevalence by Region



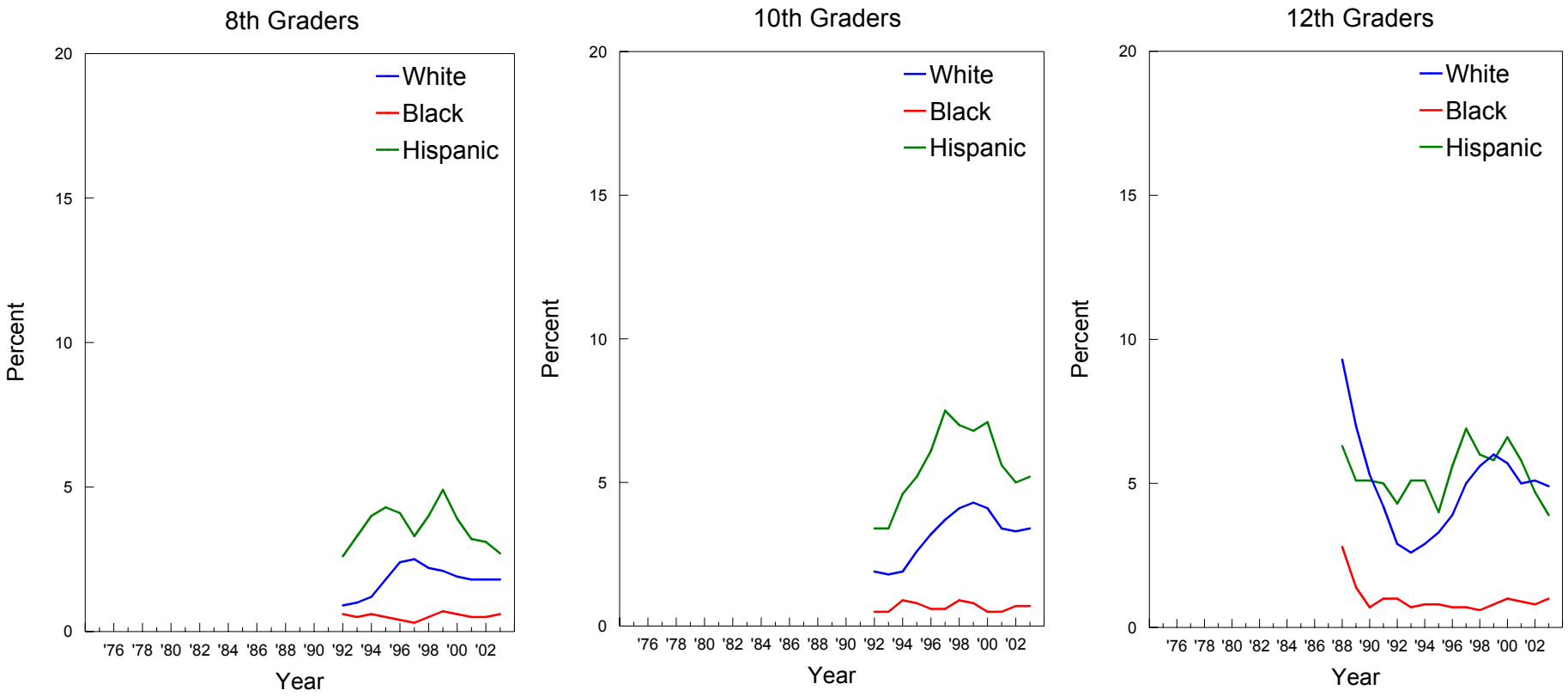
Other Cocaine: Trends in Annual Prevalence by Population Density



Other Cocaine: Trends in Annual Prevalence by Parents' Average Education



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



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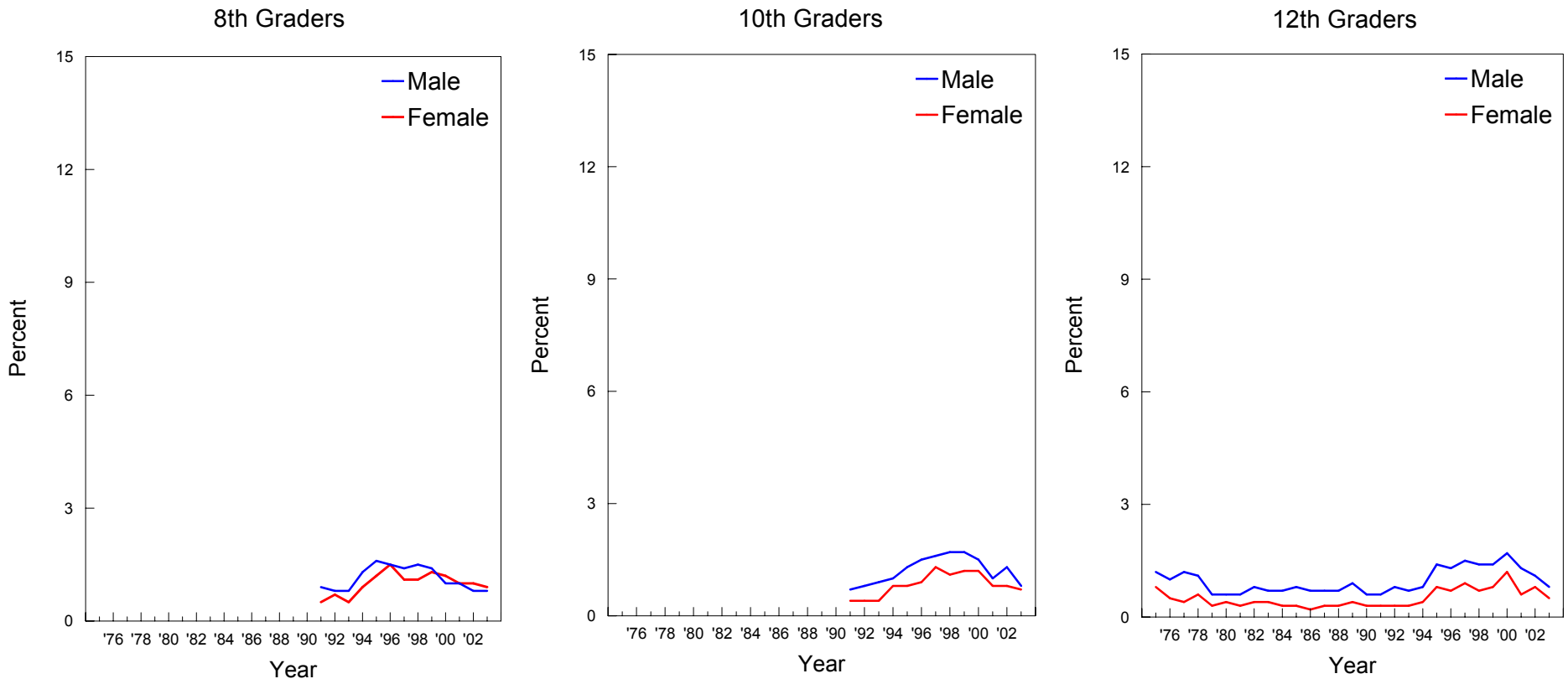
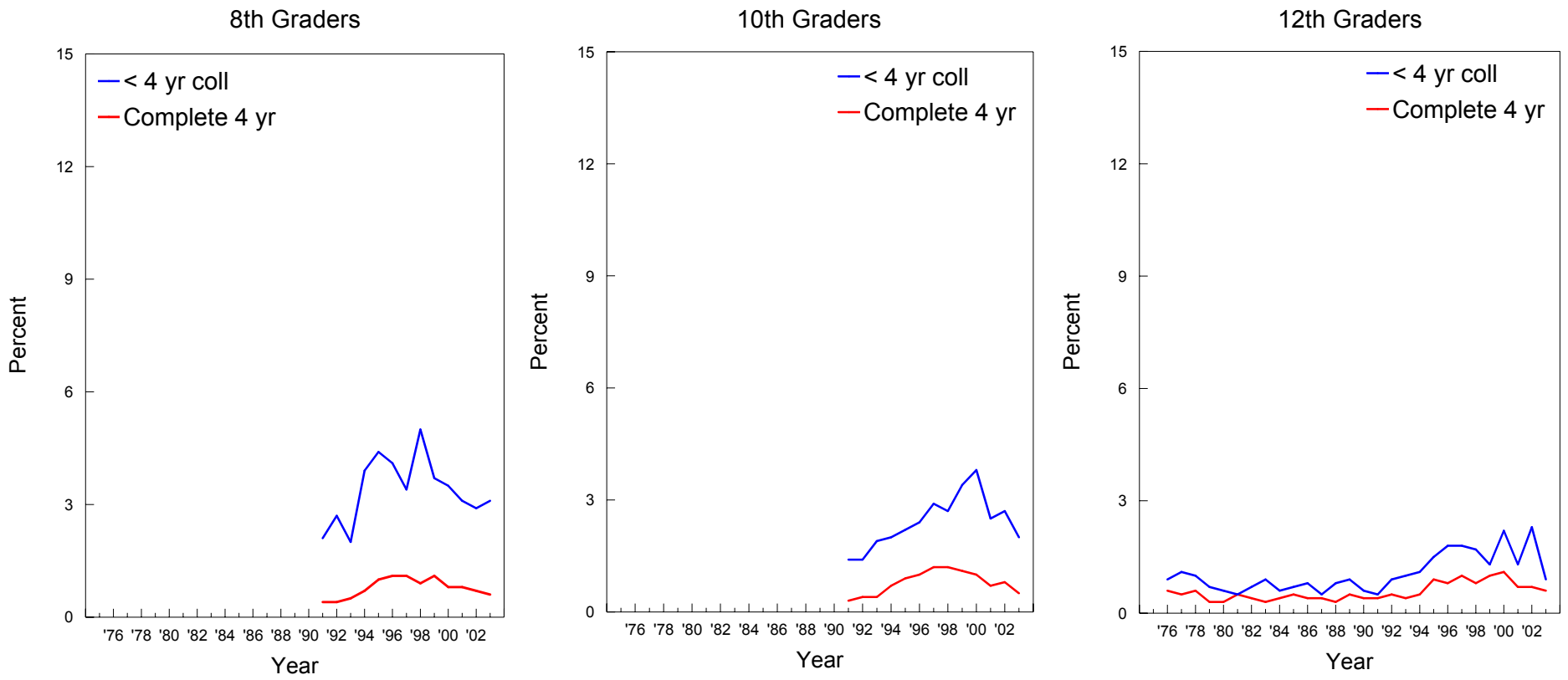
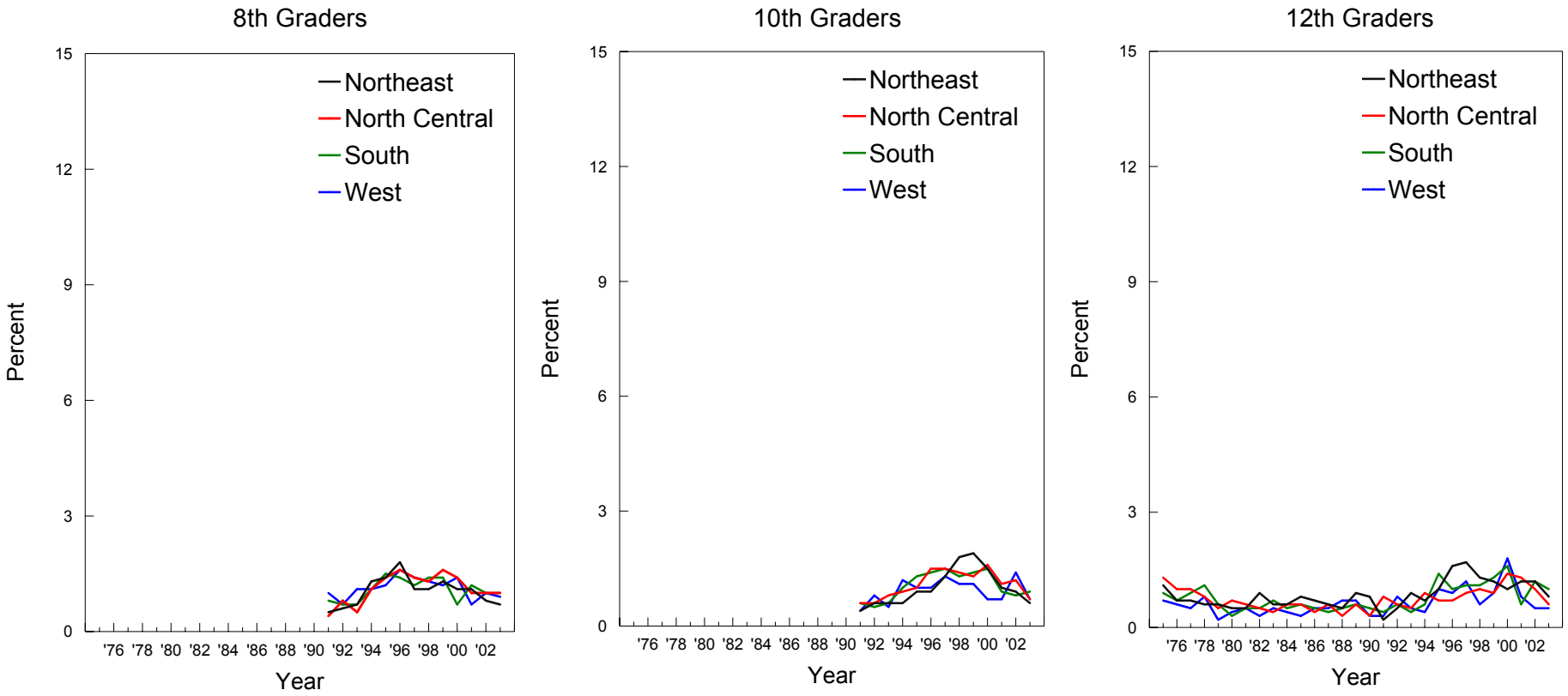
Heroin: Trends in Annual Prevalence by Gender



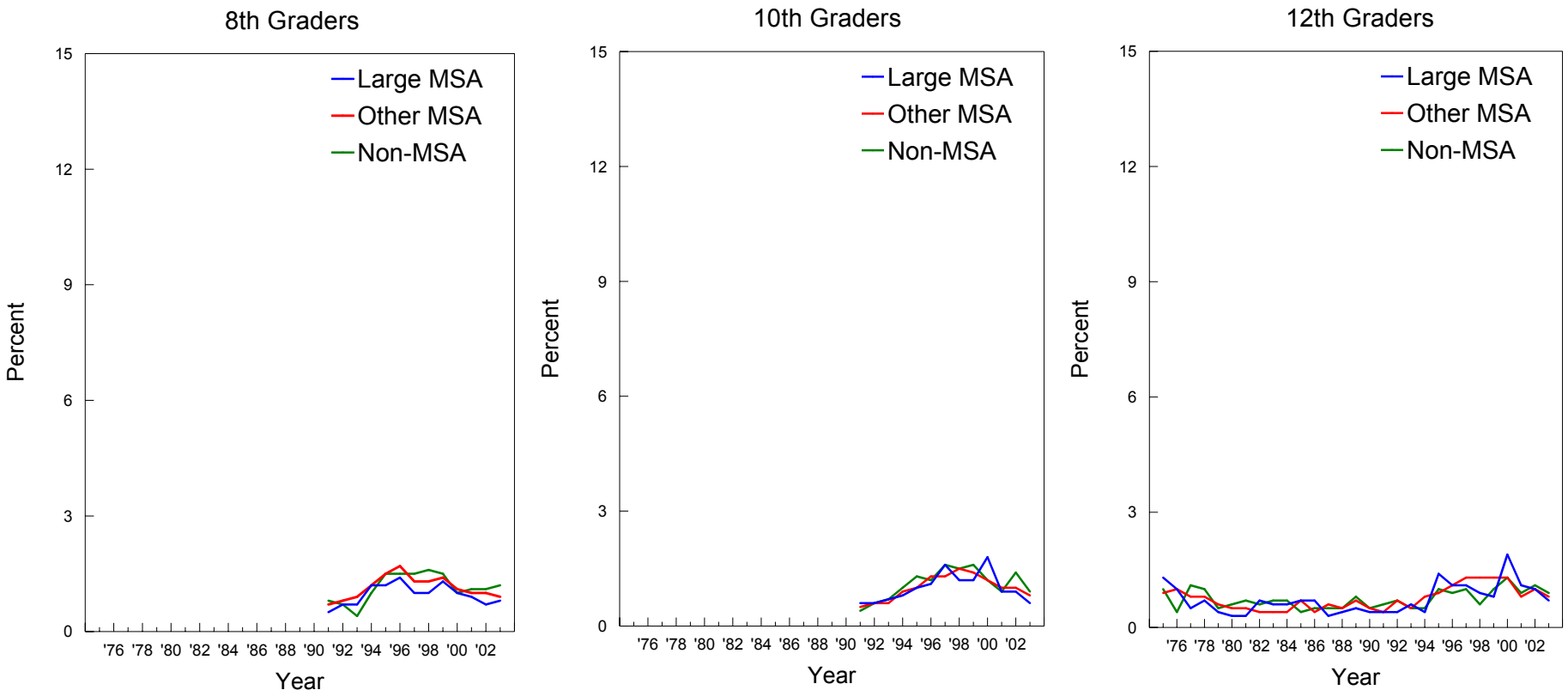
Heroin: Trends in Annual Prevalence by College Plans



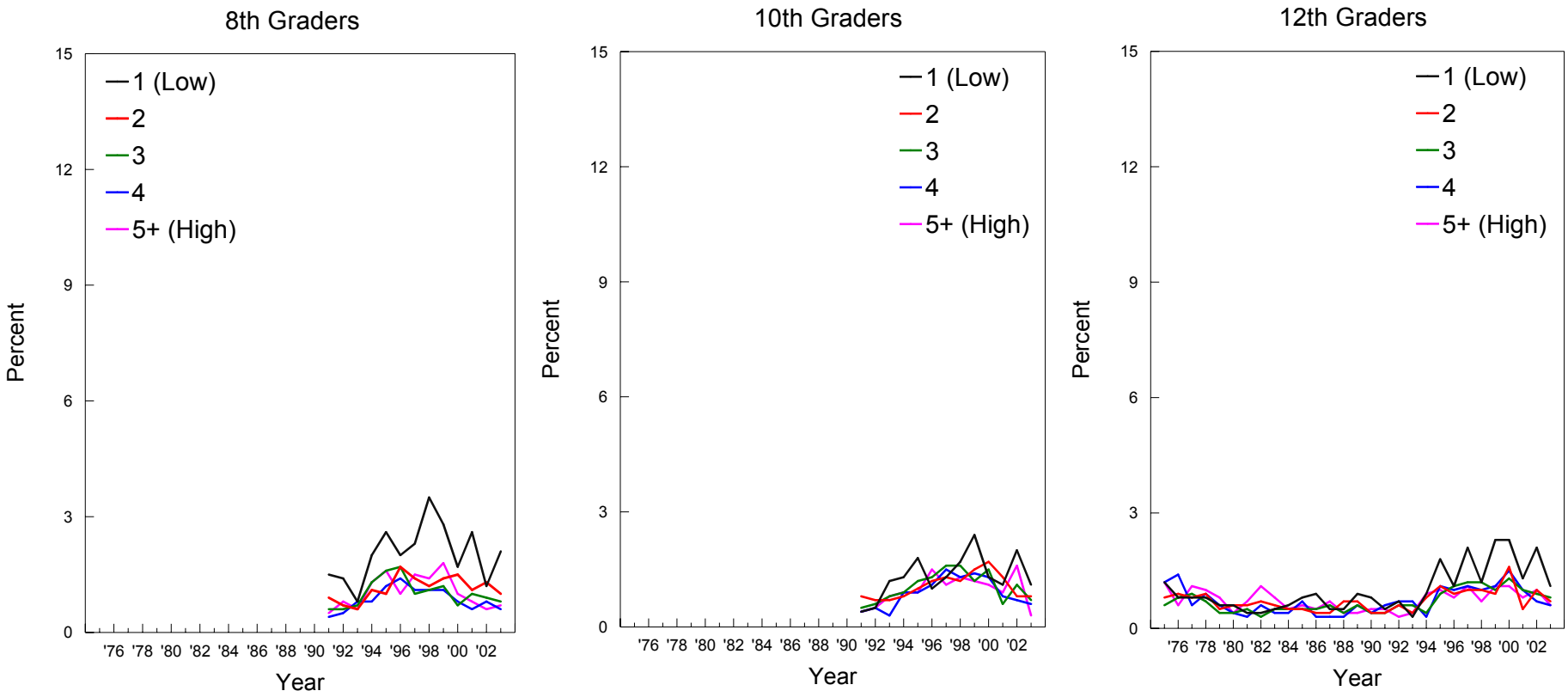
Heroin: Trends in Annual Prevalence by Region



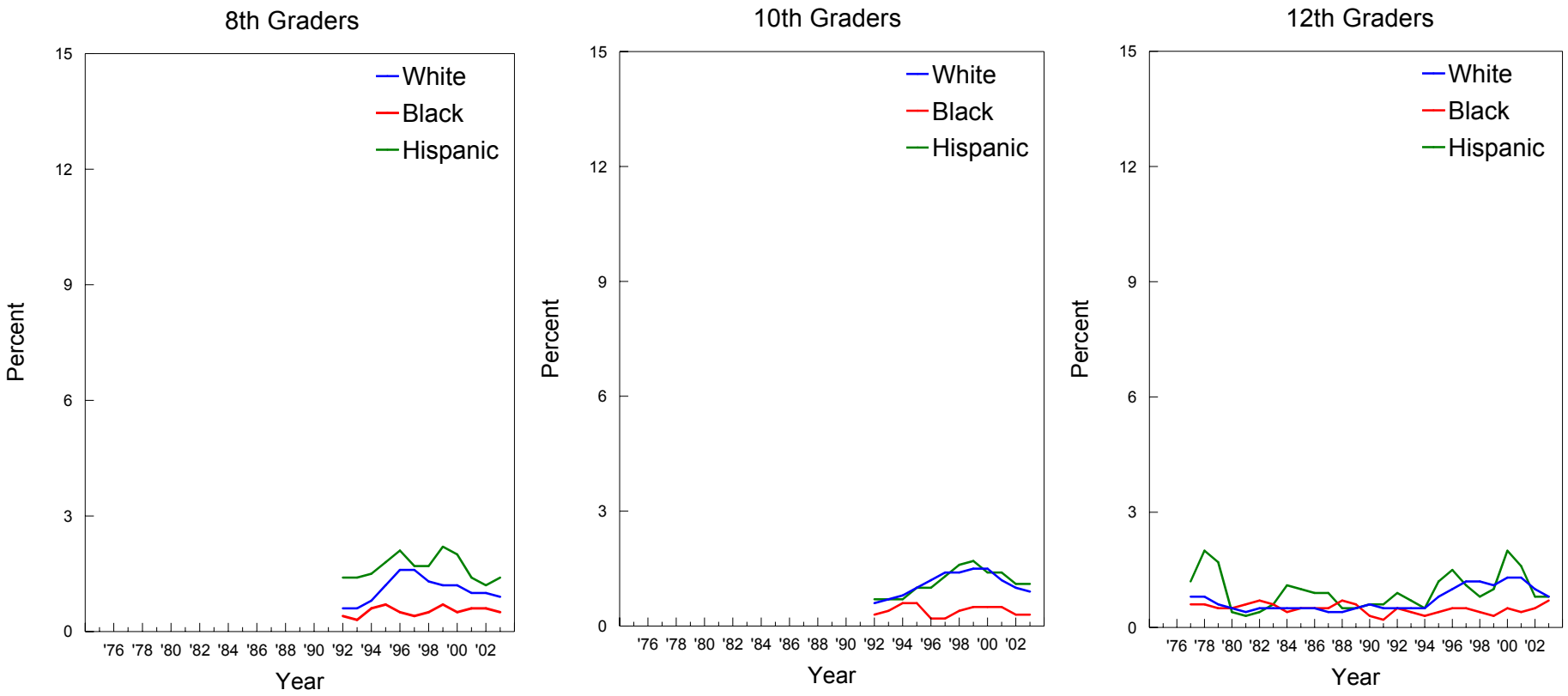
Heroin: Trends in Annual Prevalence by Population Density



Heroin: Trends in Annual Prevalence by Parents' Average Education

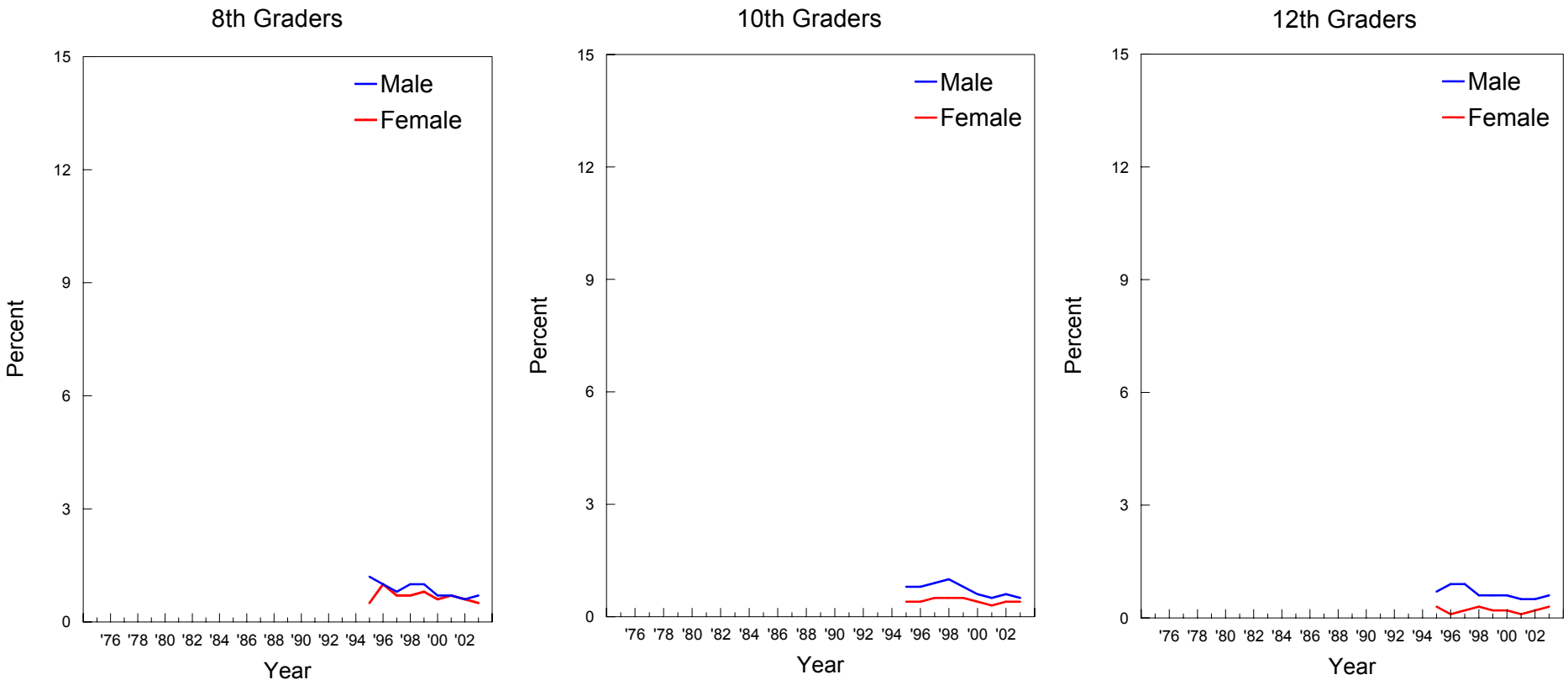


Heroin: Trends in Annual Prevalence by Race/Ethnicity*

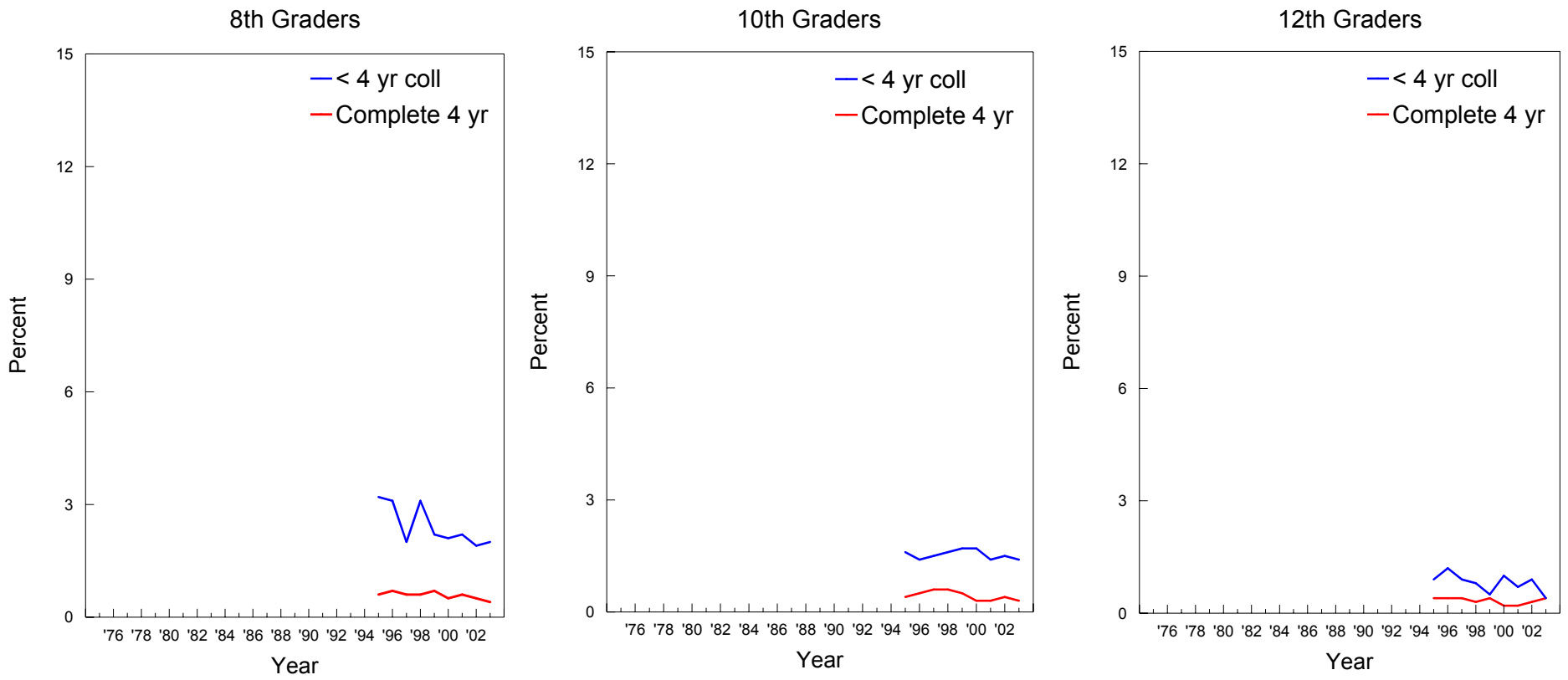


*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

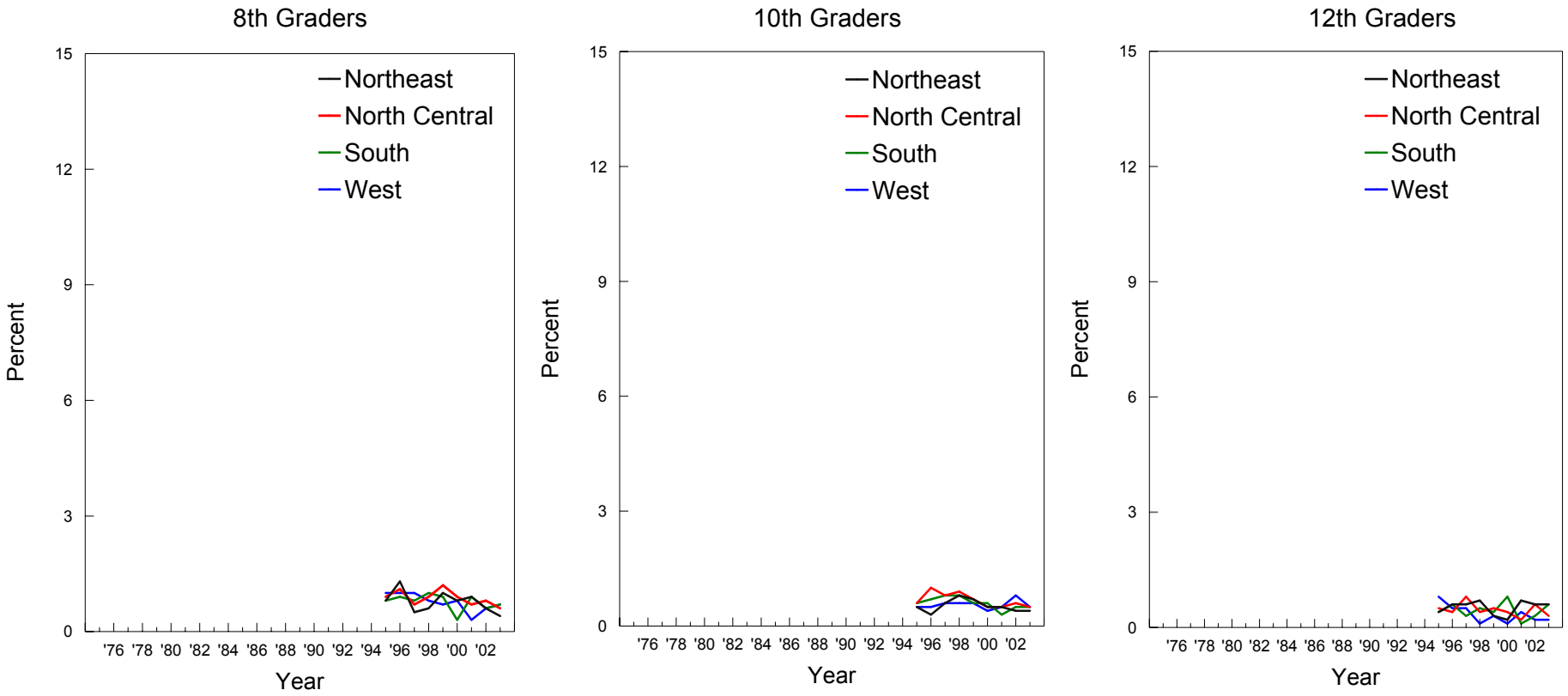
Heroin With a Needle: Trends in Annual Prevalence by Gender



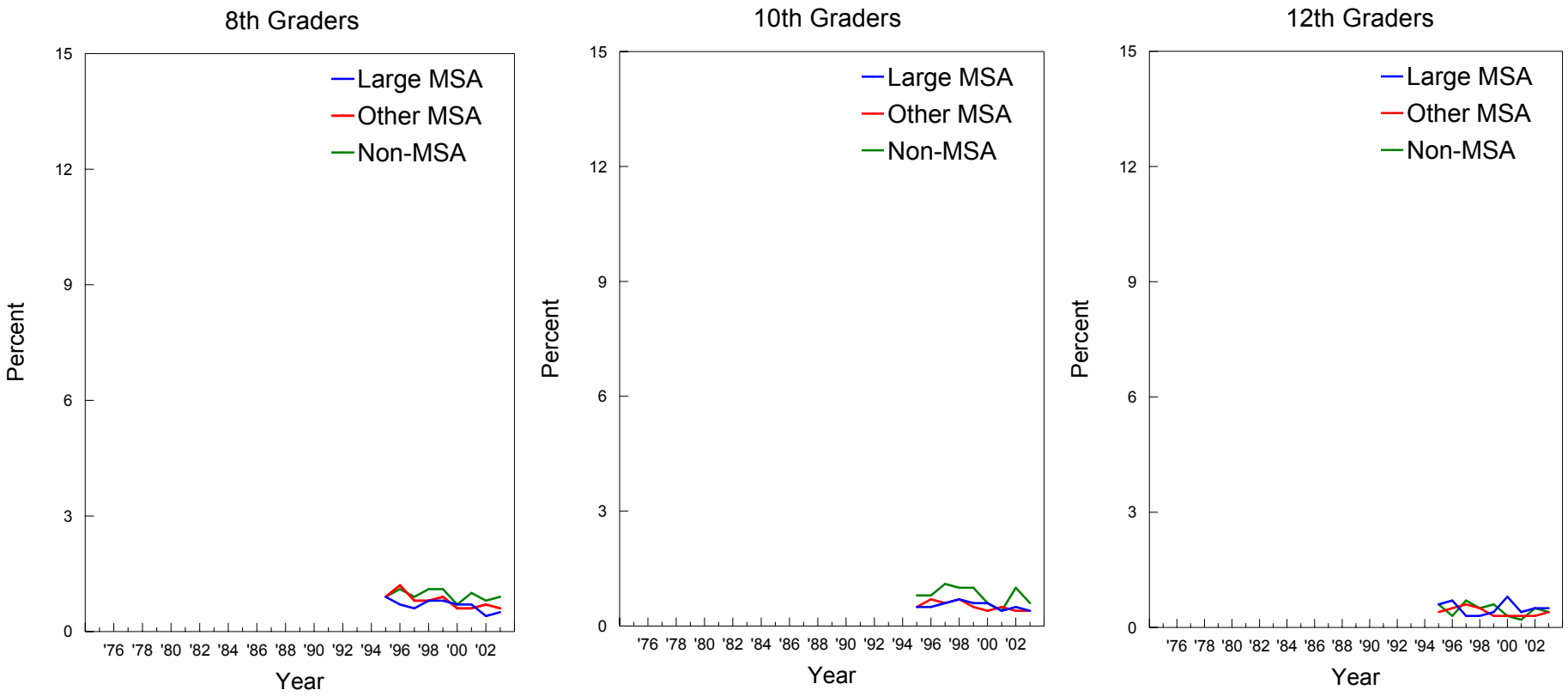
Heroin With a Needle: Trends in Annual Prevalence by College Plans



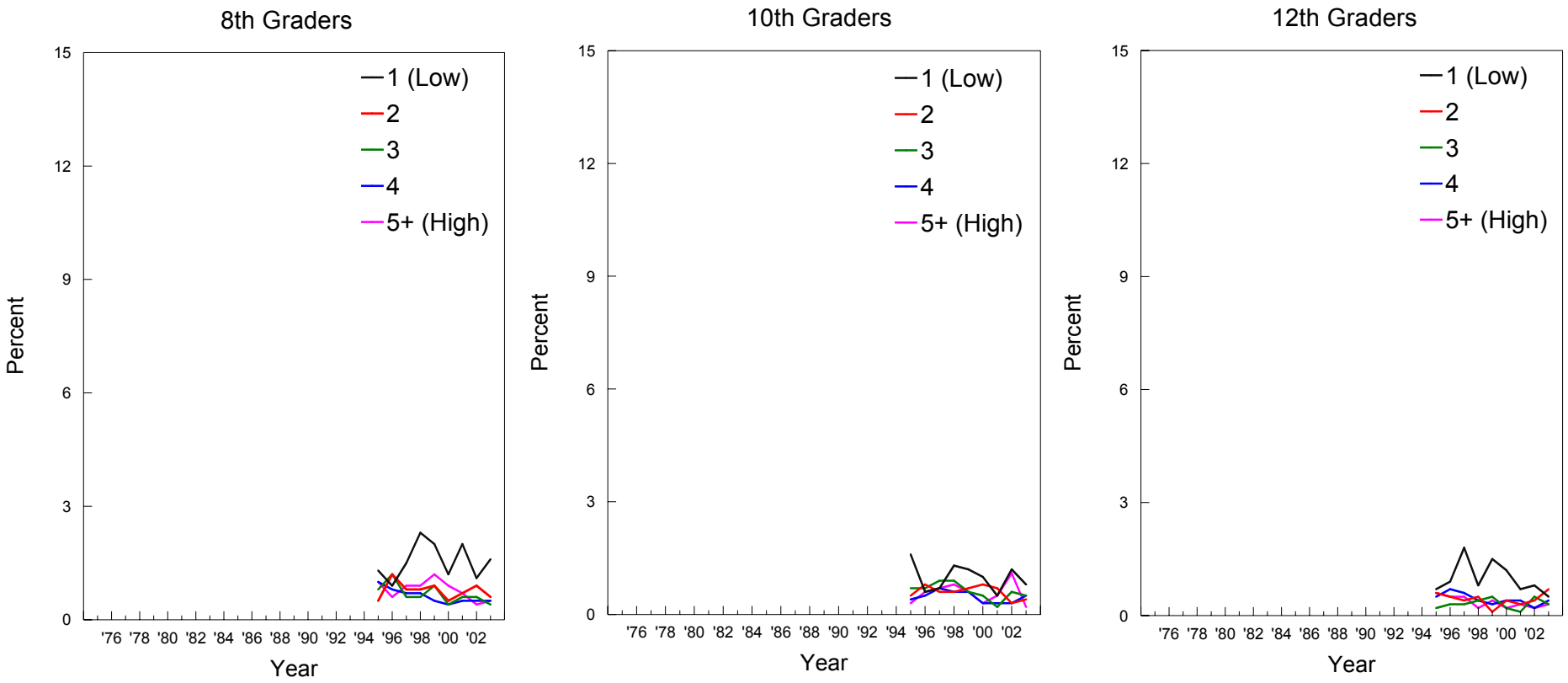
Heroin With a Needle: Trends in Annual Prevalence by Region



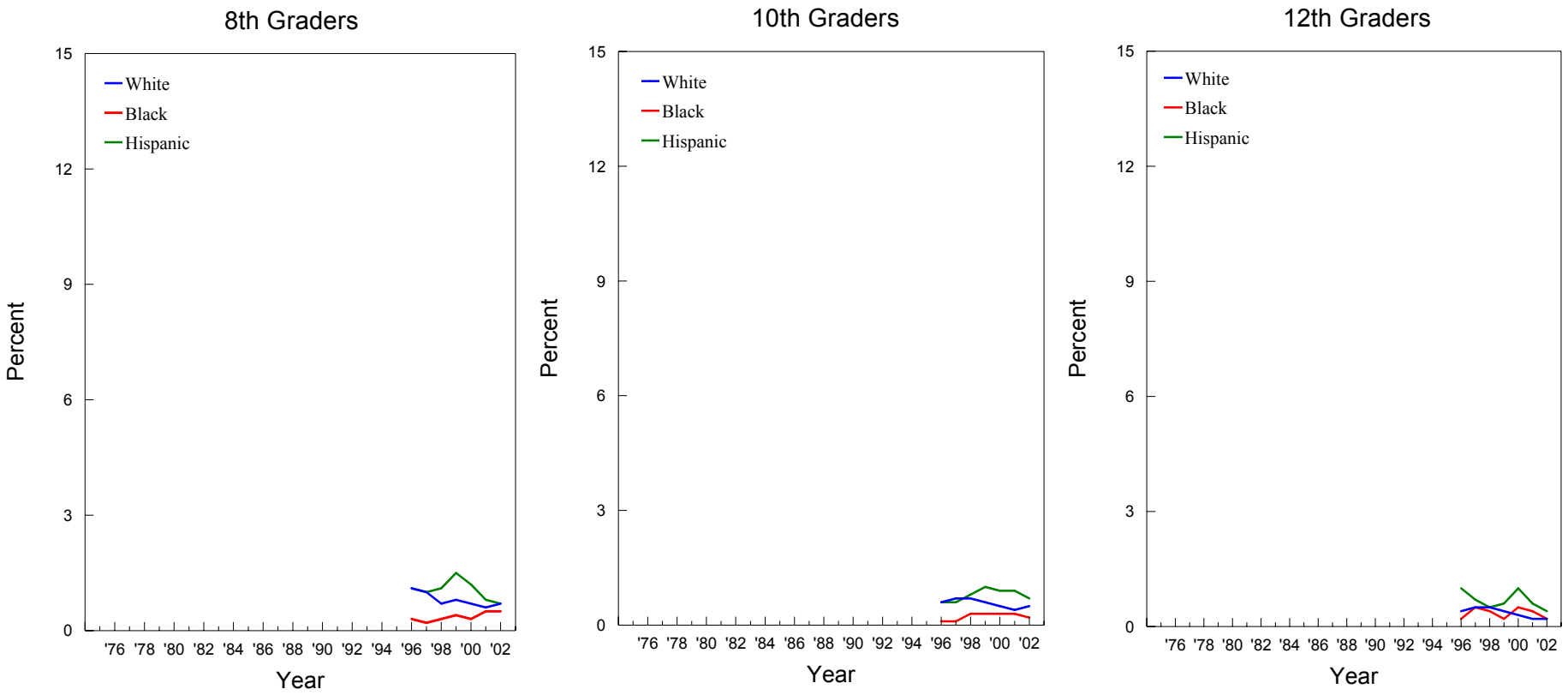
Heroin With a Needle: Trends in Annual Prevalence by Population Density



Heroin With a Needle: Trends in Annual Prevalence by Parents' Average Education

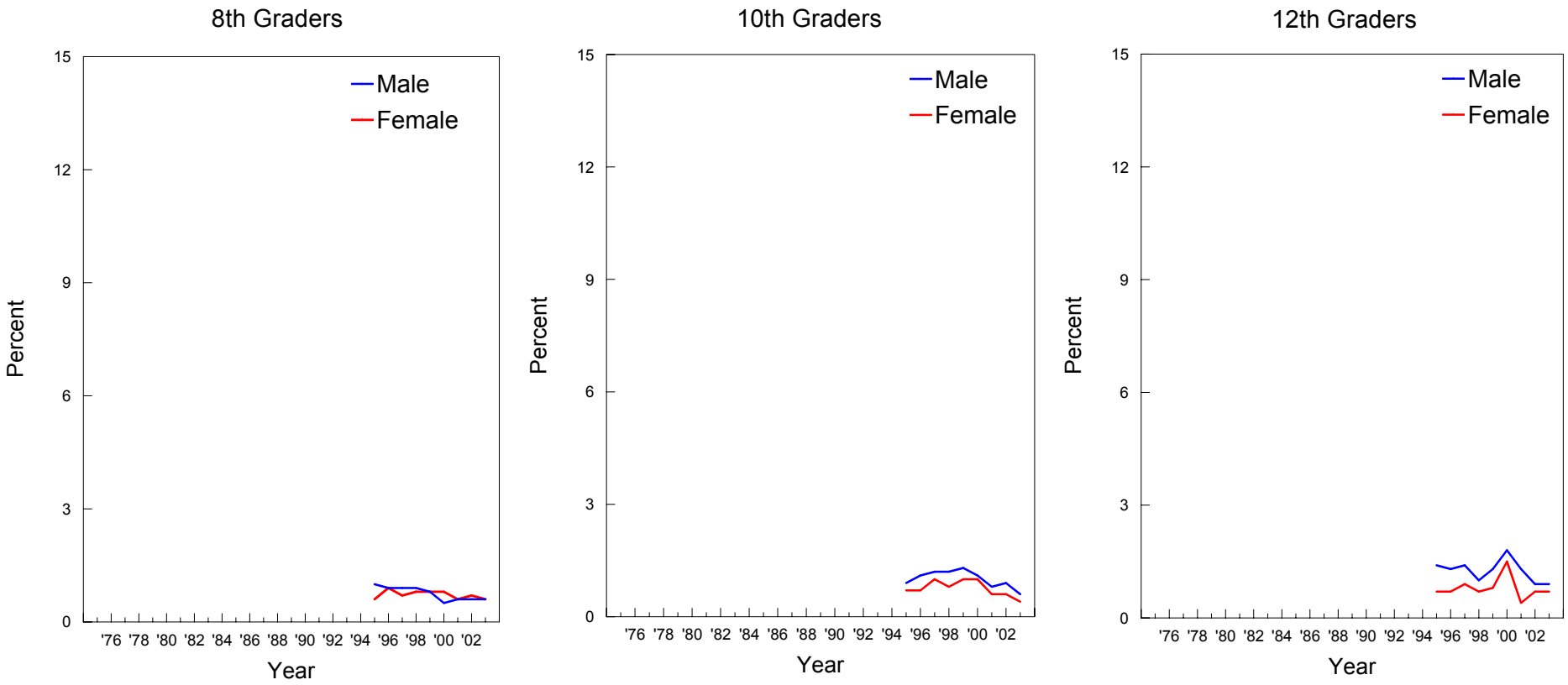


Heroin With a Needle: Trends in Annual Prevalence by Race/Ethnicity*

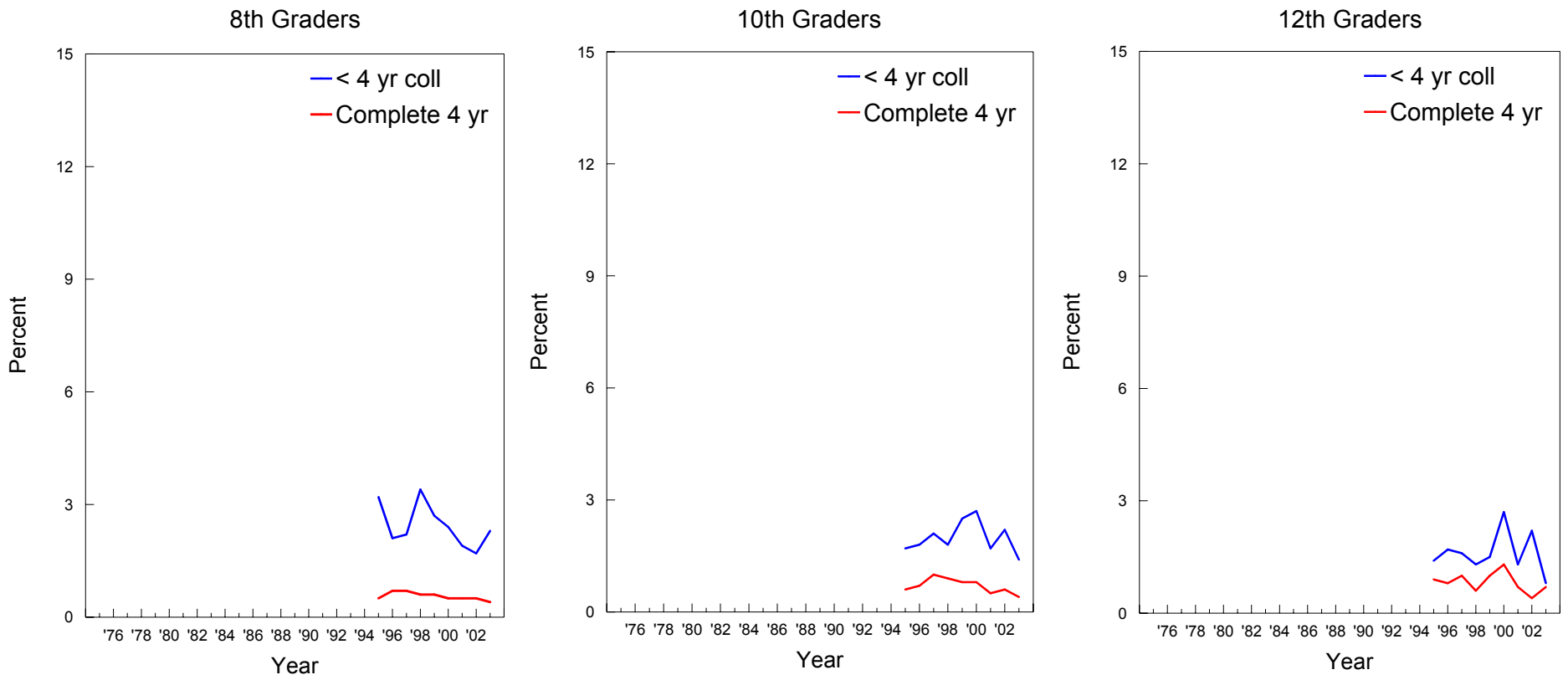


*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

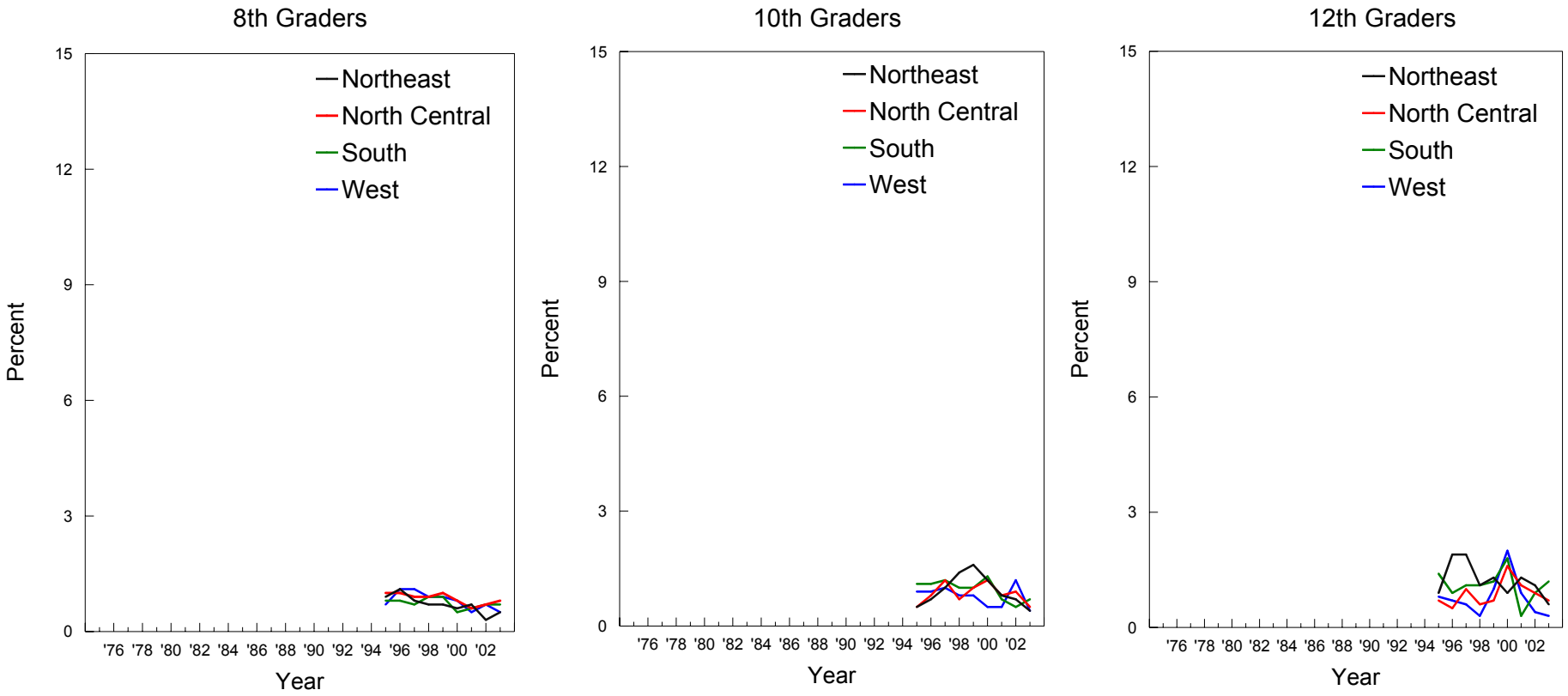
Heroin Without a Needle: Trends in Annual Prevalence by Gender



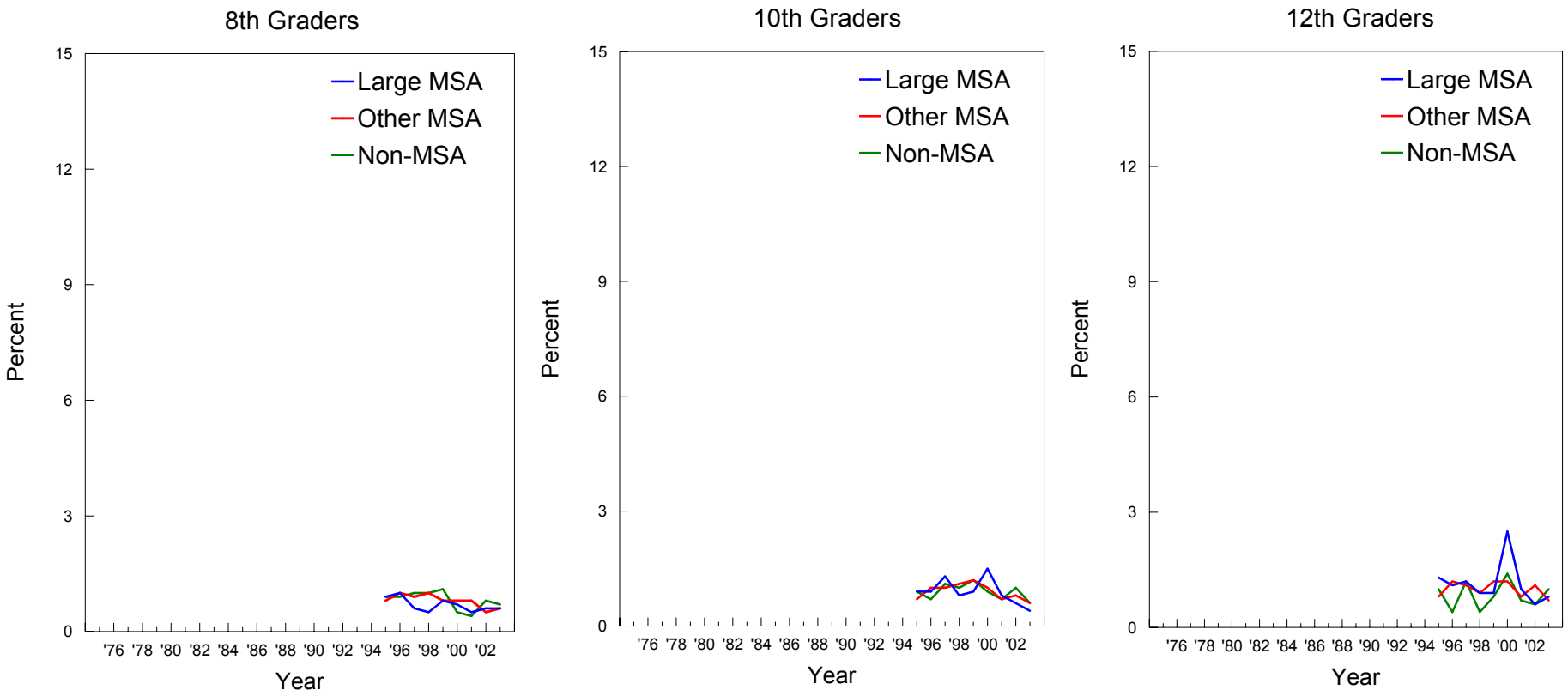
Heroin Without a Needle: Trends in Annual Prevalence by College Plans



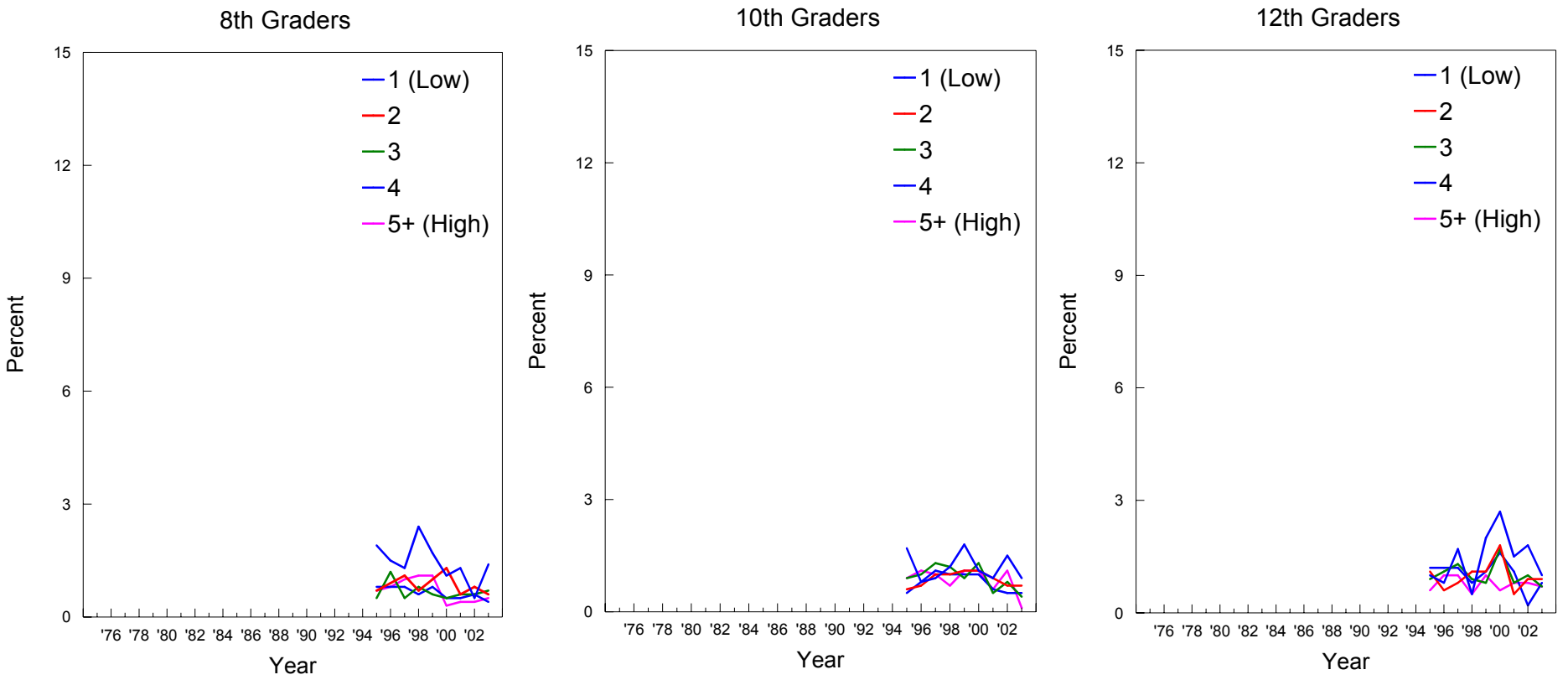
Heroin Without a Needle: Trends in Annual Prevalence by Region



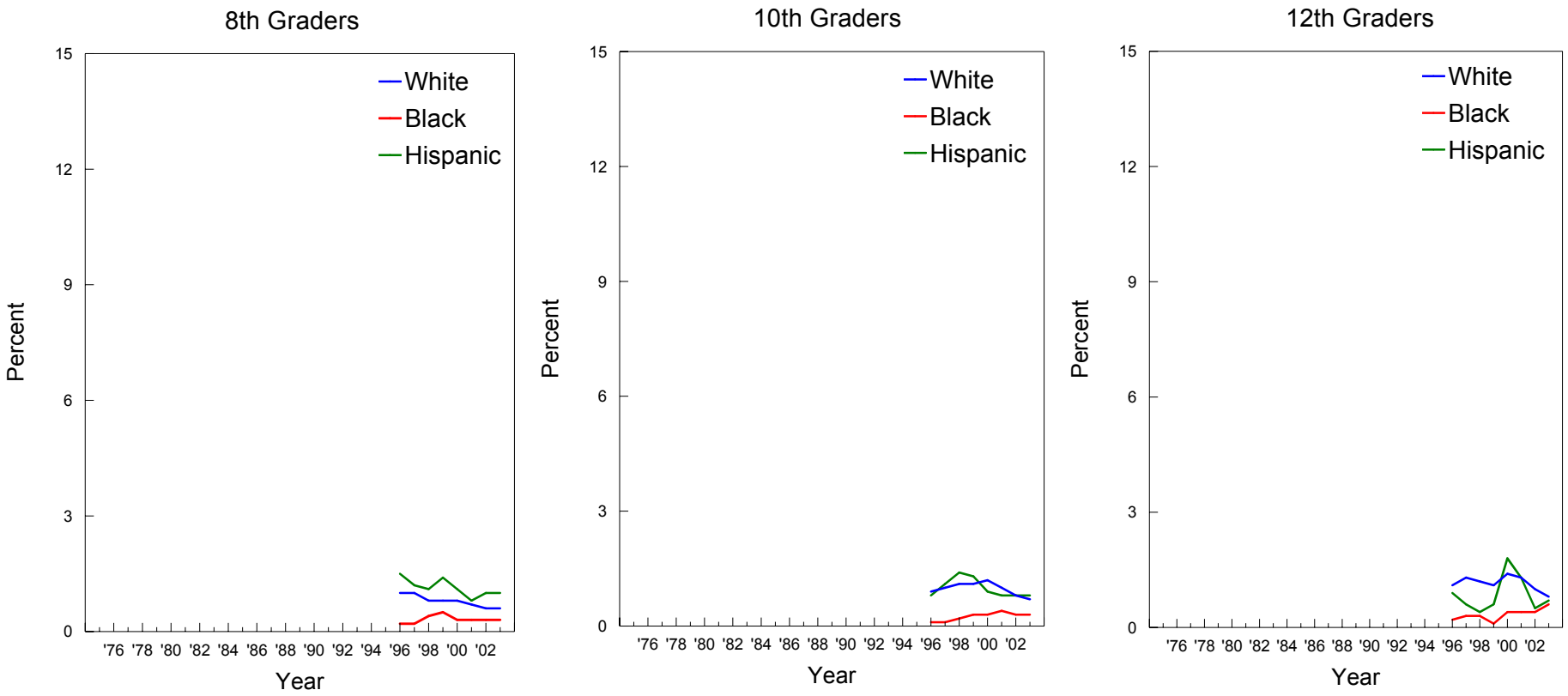
Heroin Without a Needle: Trends in Annual Prevalence by Population Density



Heroin Without a Needle: Trends in Annual Prevalence by Parents' Average Education

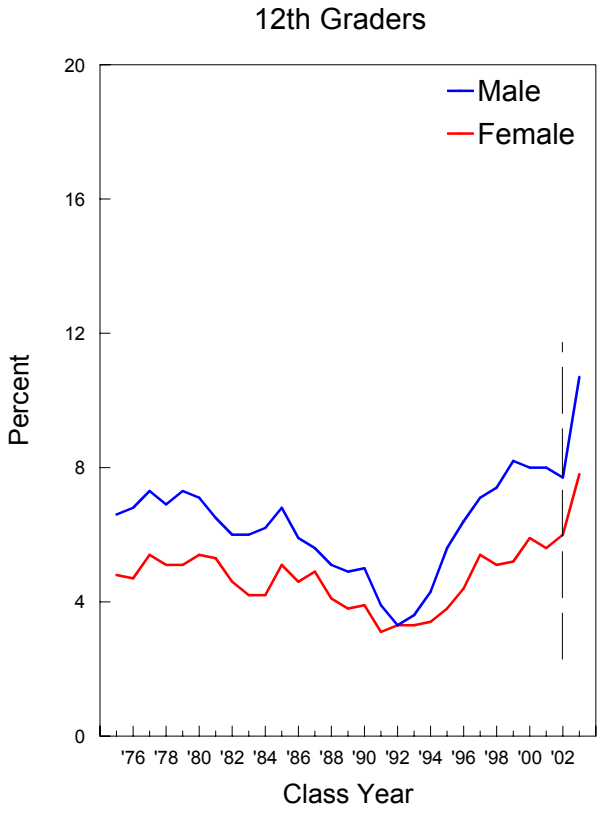


Heroin Without a Needle: Trends in Annual Prevalence by Race/Ethnicity*



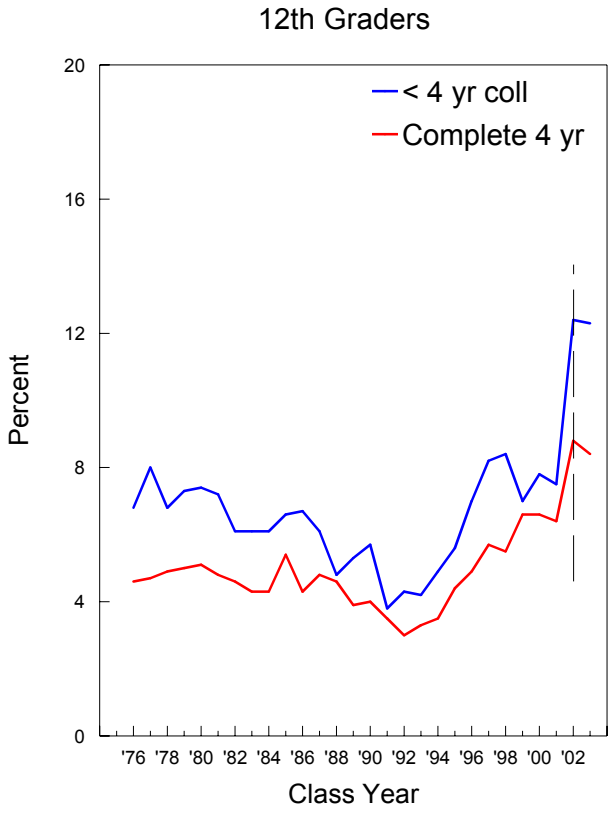
*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

Other Narcotics:* Trends in Annual Prevalence by Gender



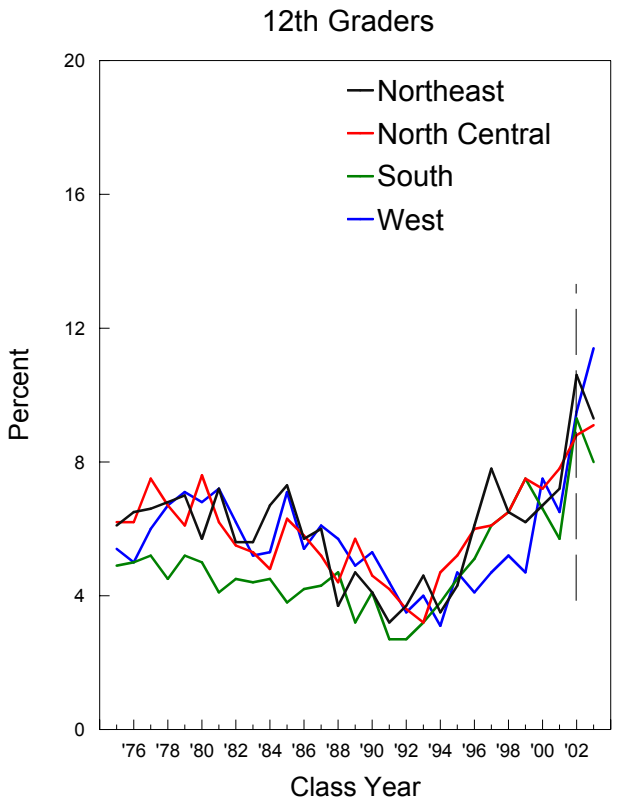
*Beginning in 2002, a revised set of questions on other narcotic use was introduced. Refer to corresponding tables for further details.

Other Narcotics:* Trends in Annual Prevalence by College Plans



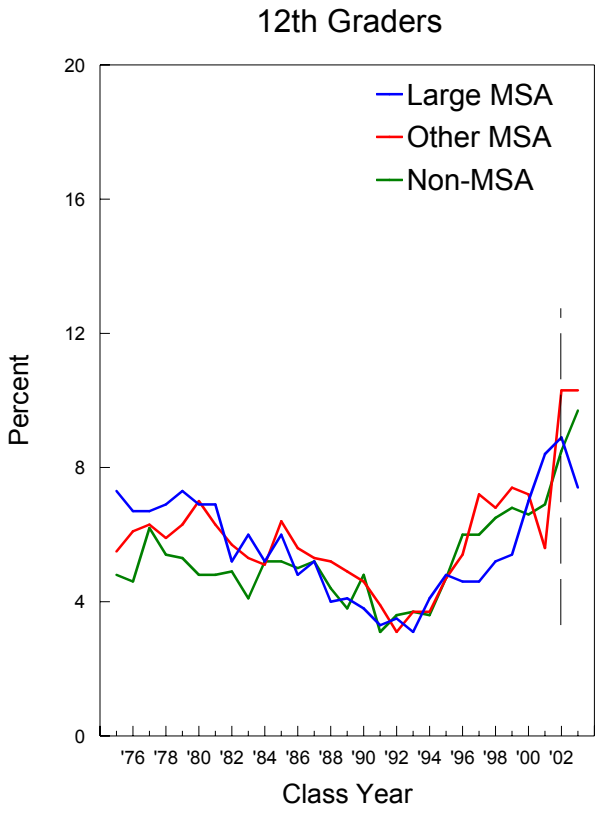
*Beginning in 2002, a revised set of questions on other narcotic use was introduced. Refer to corresponding tables for further details.

Other Narcotics:* Trends in Annual Prevalence by Region



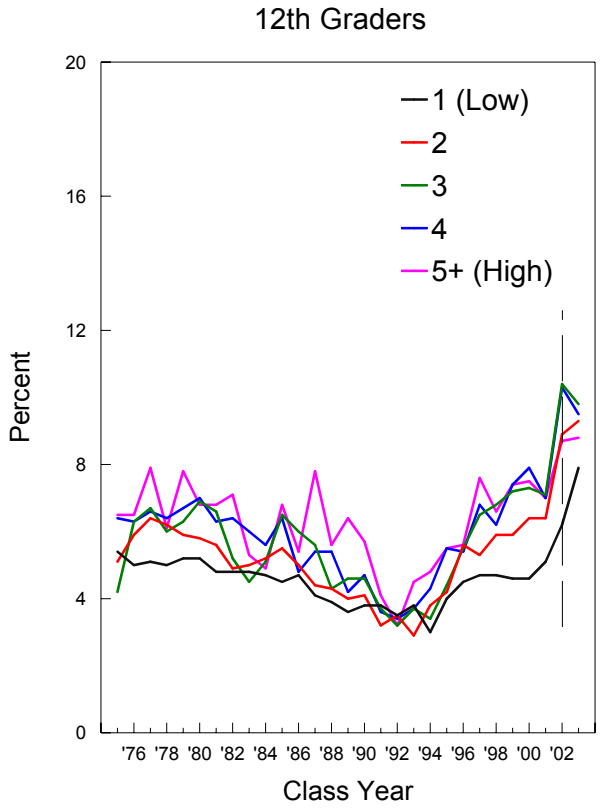
*Beginning in 2002, a revised set of questions on other narcotic use was introduced. Refer to corresponding tables for further details.

Other Narcotics:* Trends in Annual Prevalence by Population Density



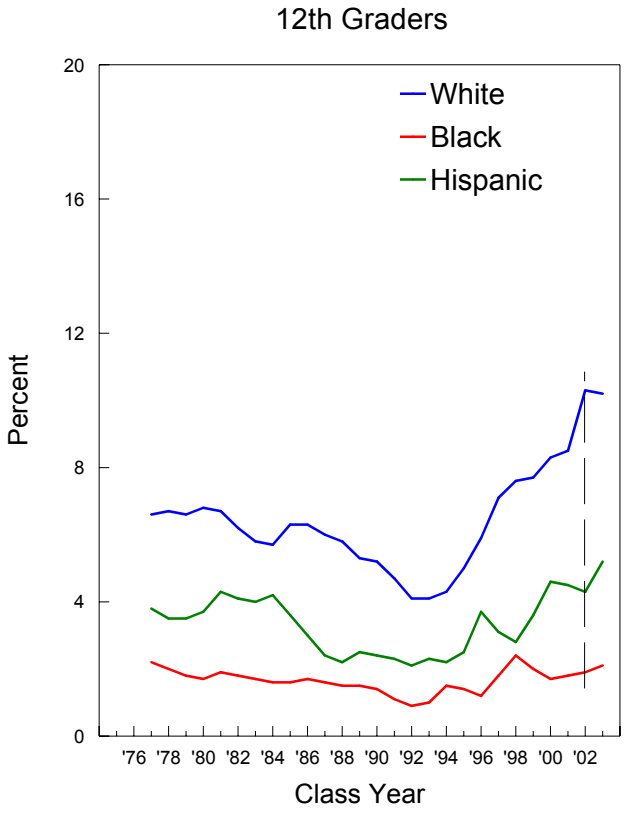
*Beginning in 2002, a revised set of questions on other narcotic use was introduced. Refer to corresponding tables for further details.

Other Narcotics:* Trends in Annual Prevalence by Parents' Average Education



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

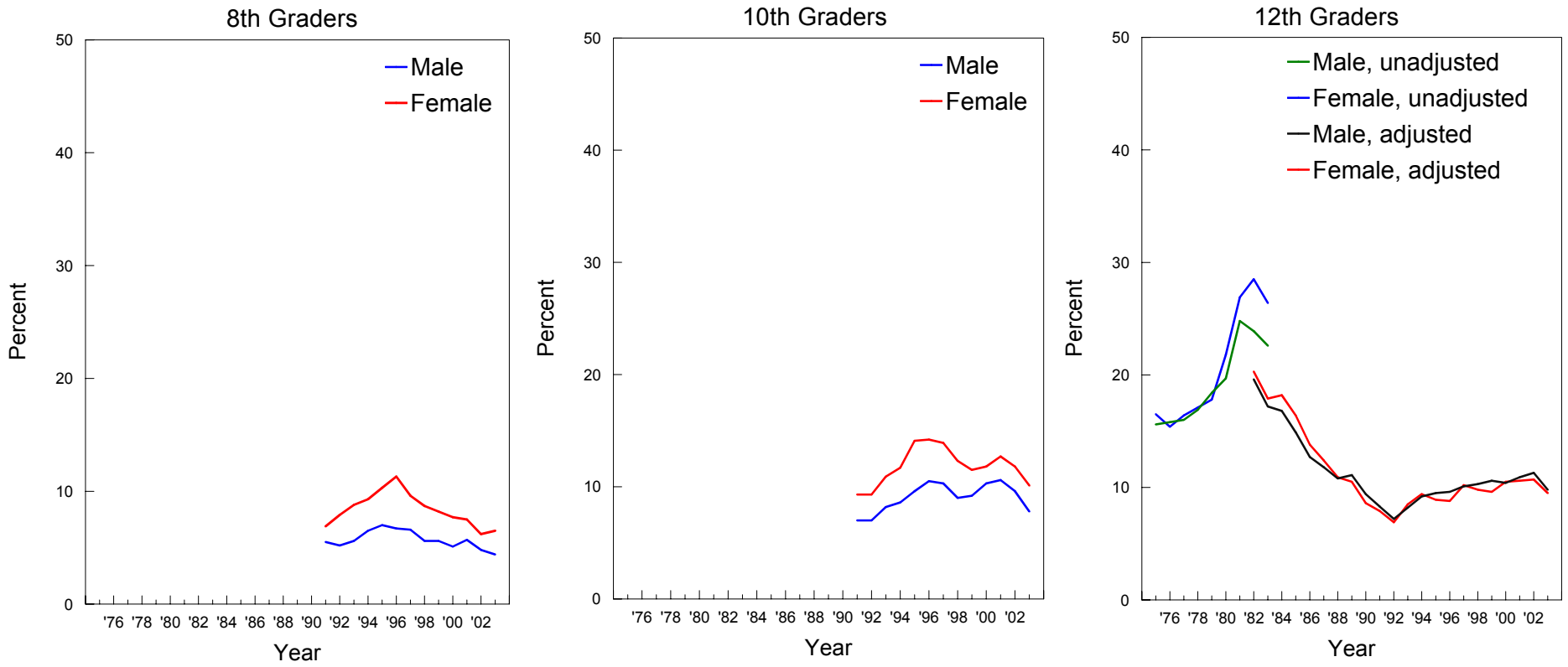
Other Narcotics:* Trends in Annual Prevalence by Race/Ethnicity**



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

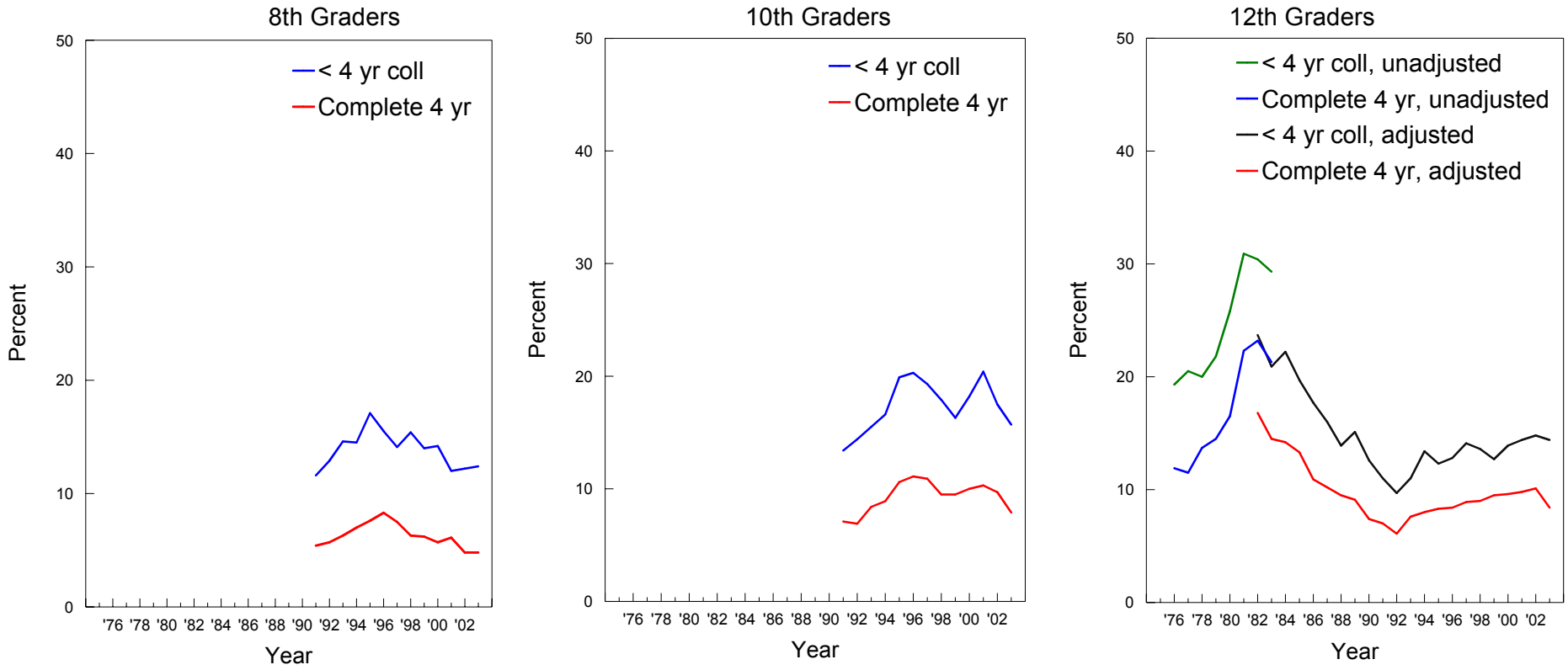
**These are two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

Amphetamines:* Trends in Annual Prevalence by Gender



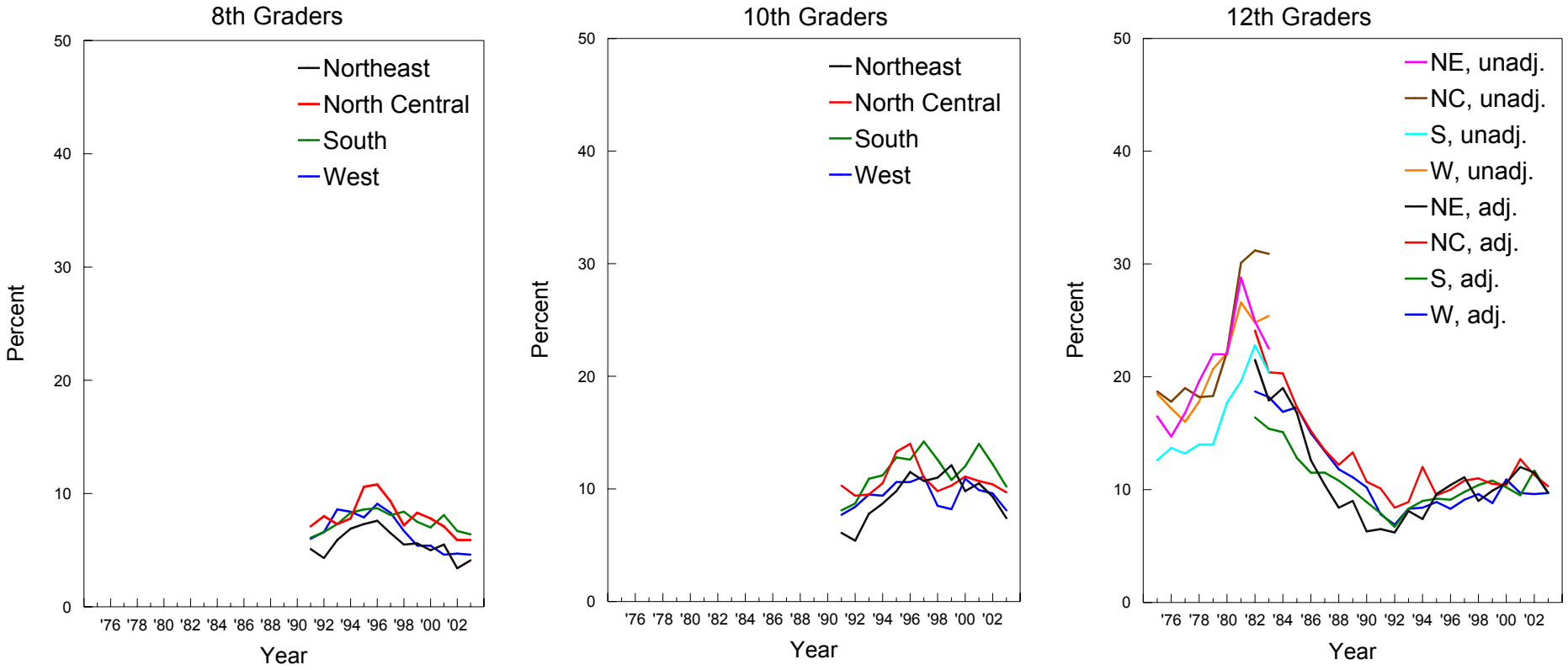
*After 1982 the question about amphetamine use was revised to further clarify that non-prescription stimulants should not be included in the answers.

Amphetamines:* Trends in Annual Prevalence by College Plans



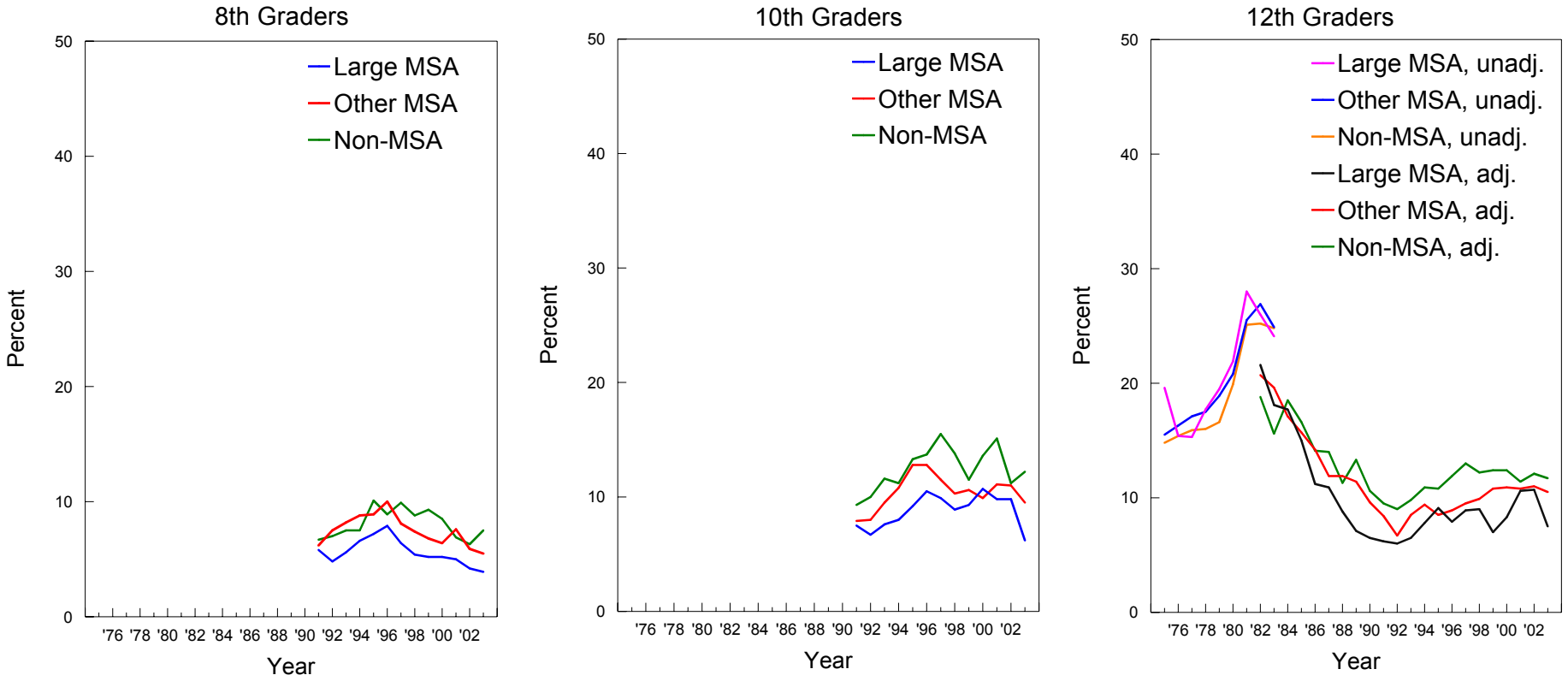
*After 1982 the question about amphetamine use was revised to further clarify that non-prescription stimulants should not be included in the answers.

Amphetamines:* Trends in Annual Prevalence by Region



*After 1982 the question about amphetamine use was revised to further clarify that non-prescription stimulants should not be included in the answers.

Amphetamines:* Trends in Annual Prevalence by Population Density



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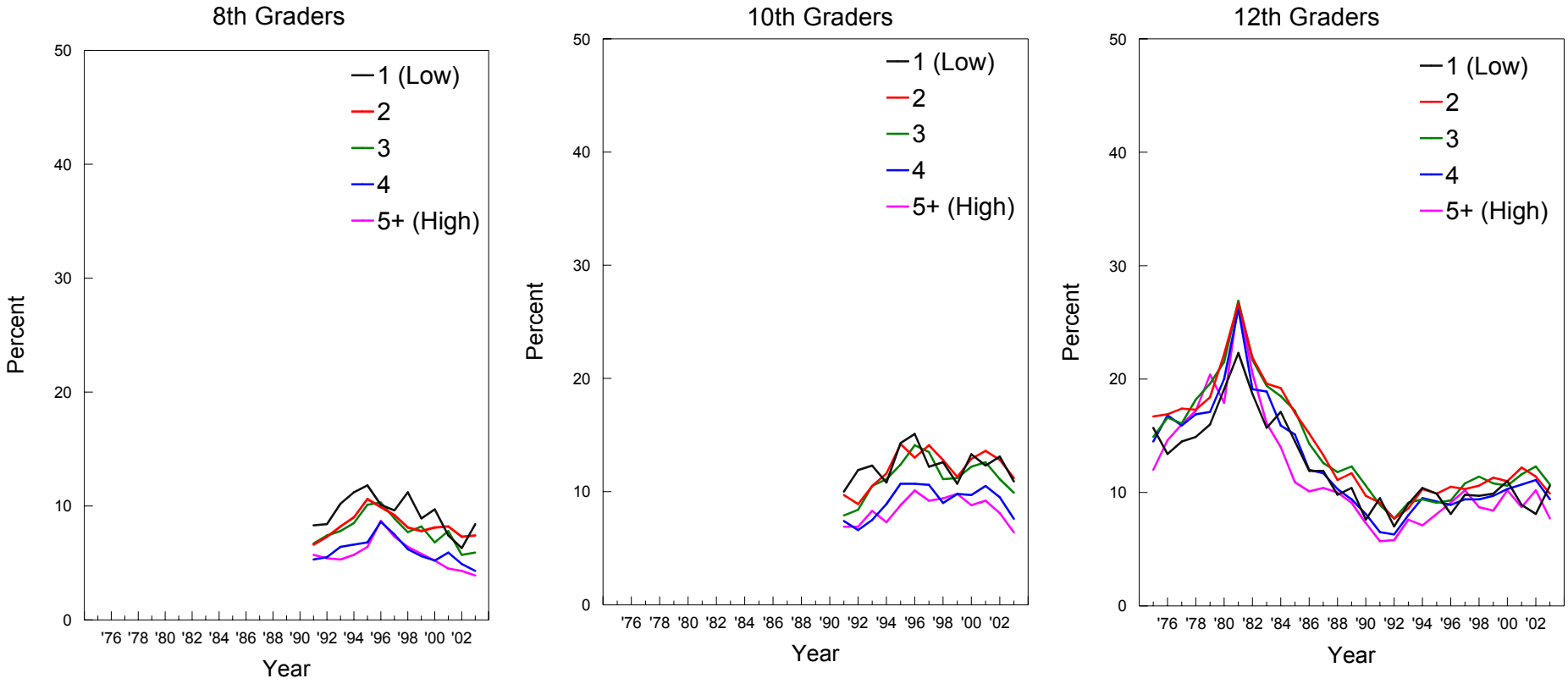
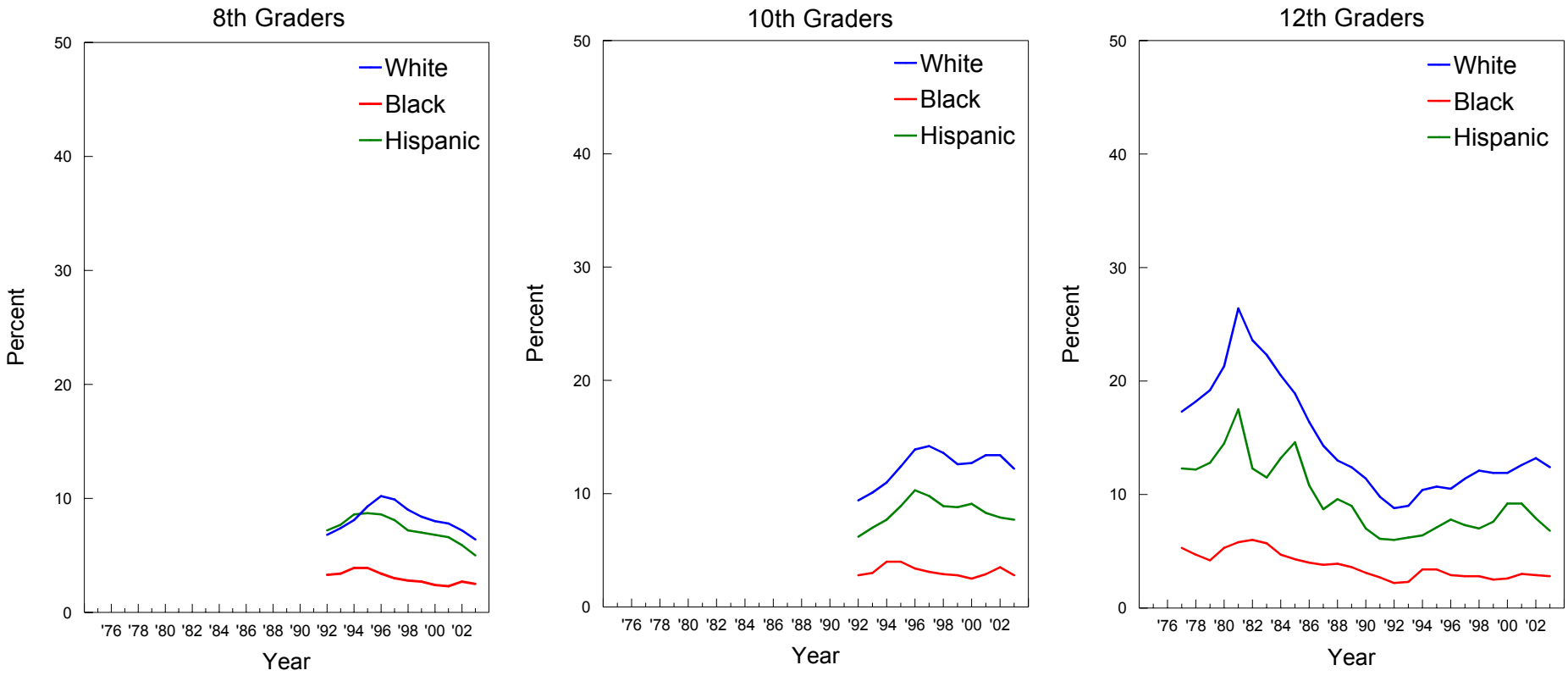
Amphetamines:* Trends in Annual Prevalence by Parents' Average Education



*After 1982 the question about amphetamine use was revised to further clarify that non-prescription stimulants should not be included in the answers.

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



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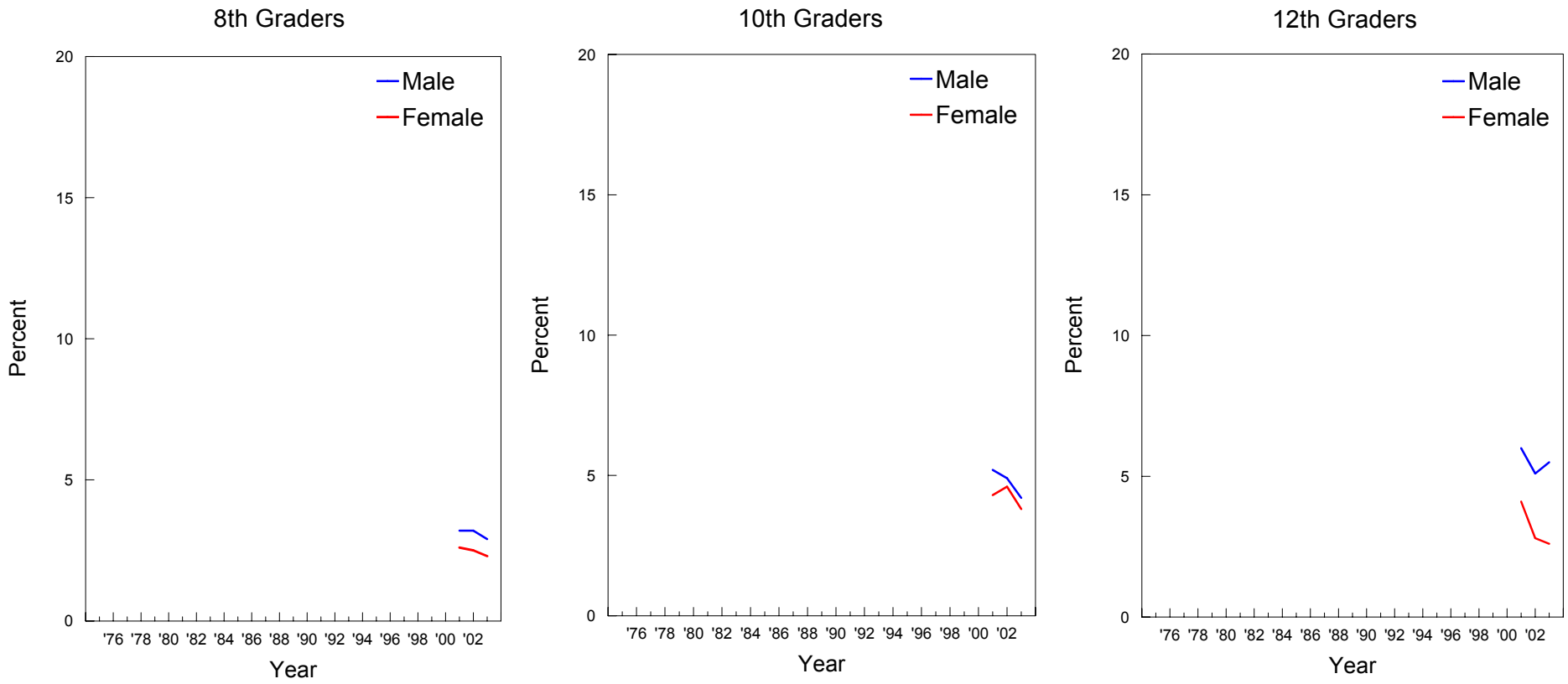
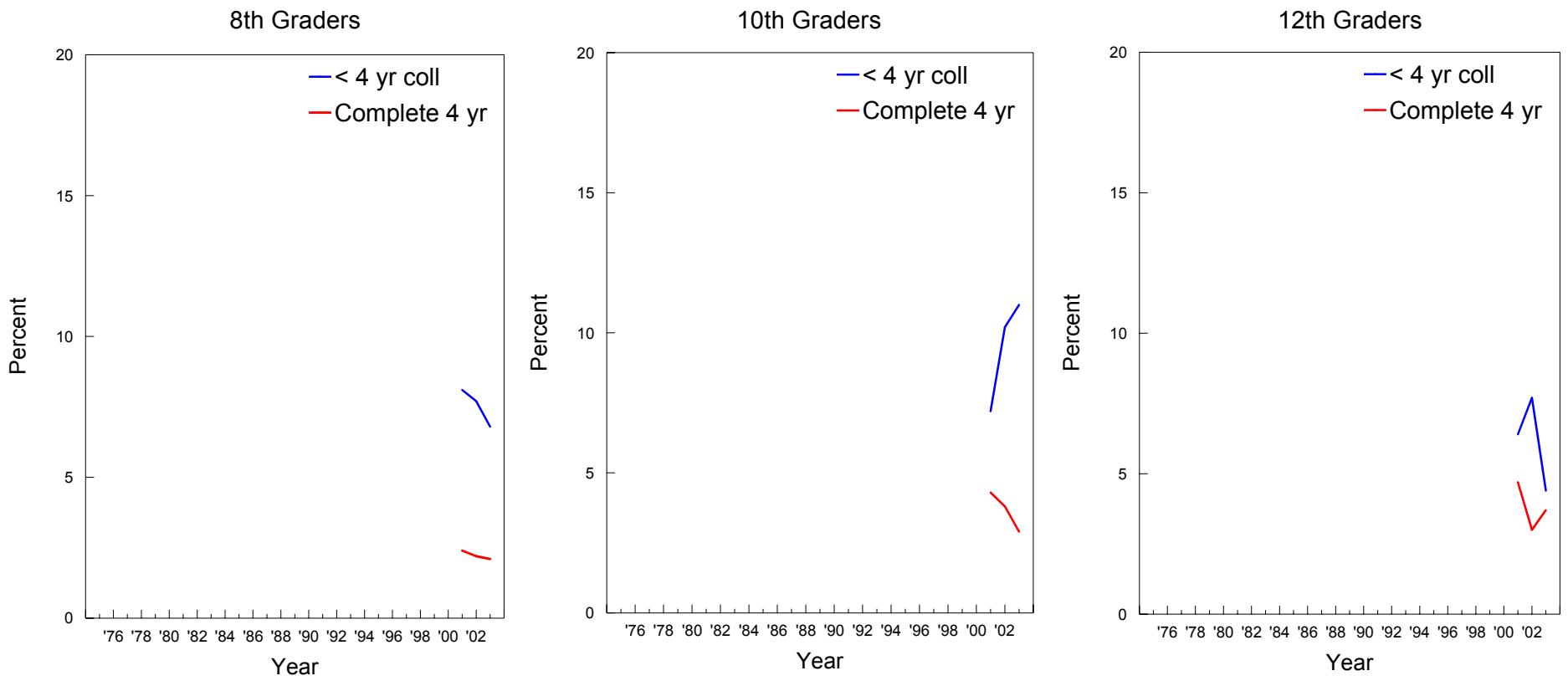
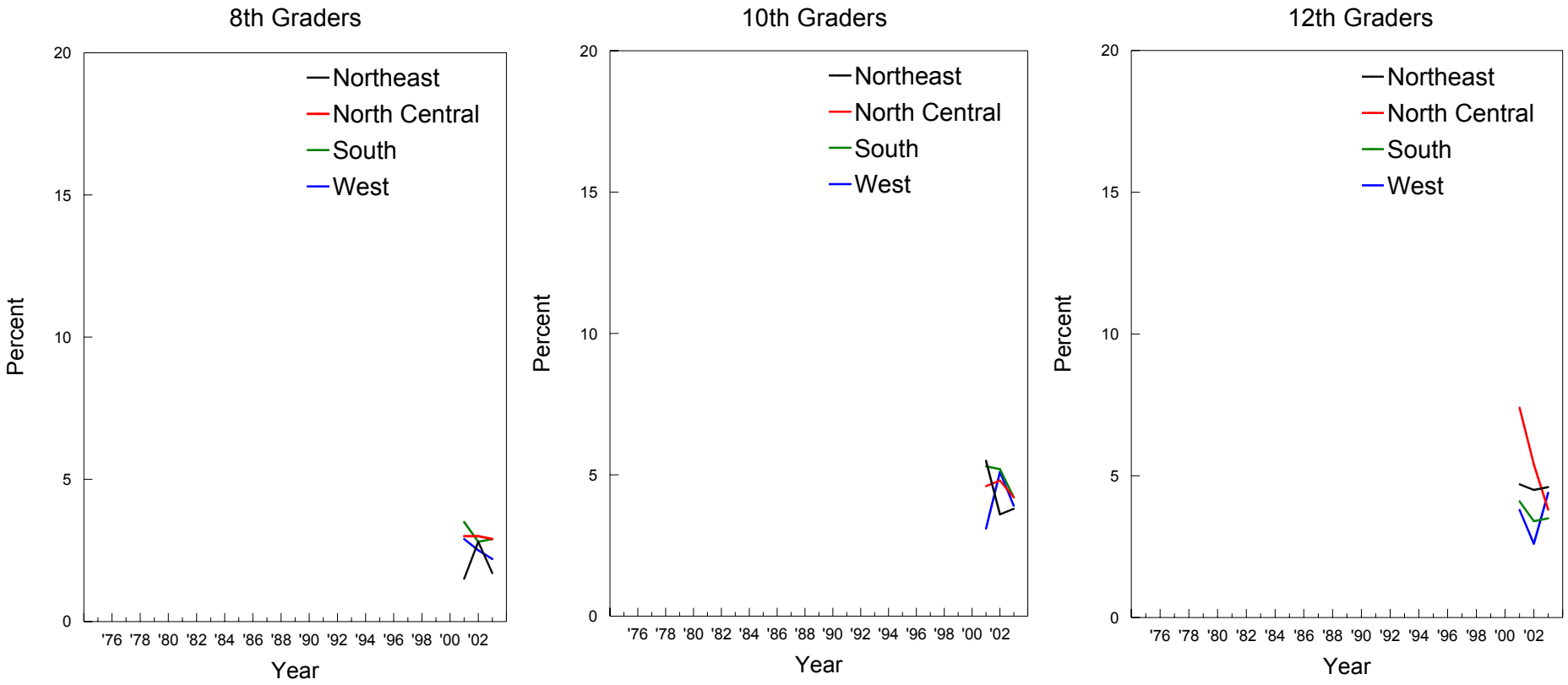
Ritalin: Trends in Annual Prevalence by Gender



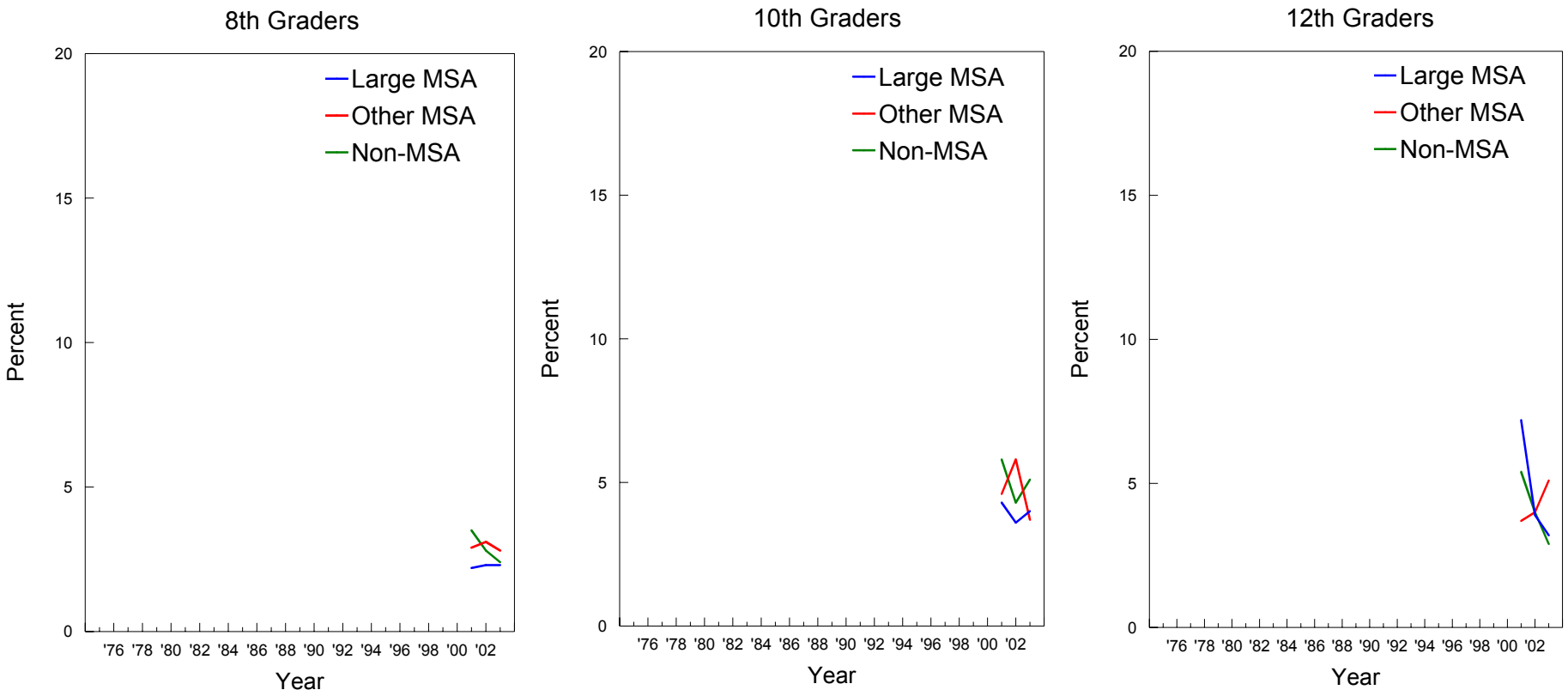
Ritalin: Trends in Annual Prevalence by College Plans



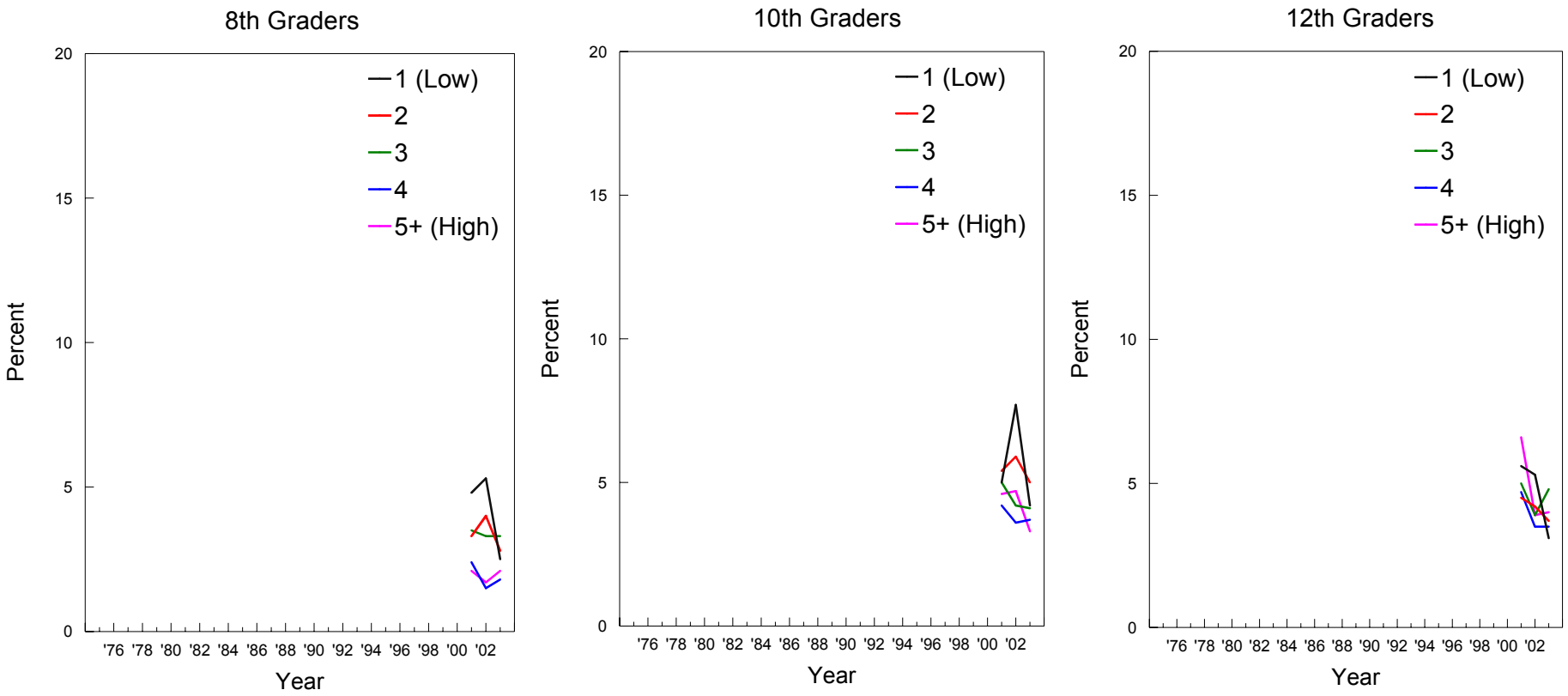
Ritalin: Trends in Annual Prevalence by Region



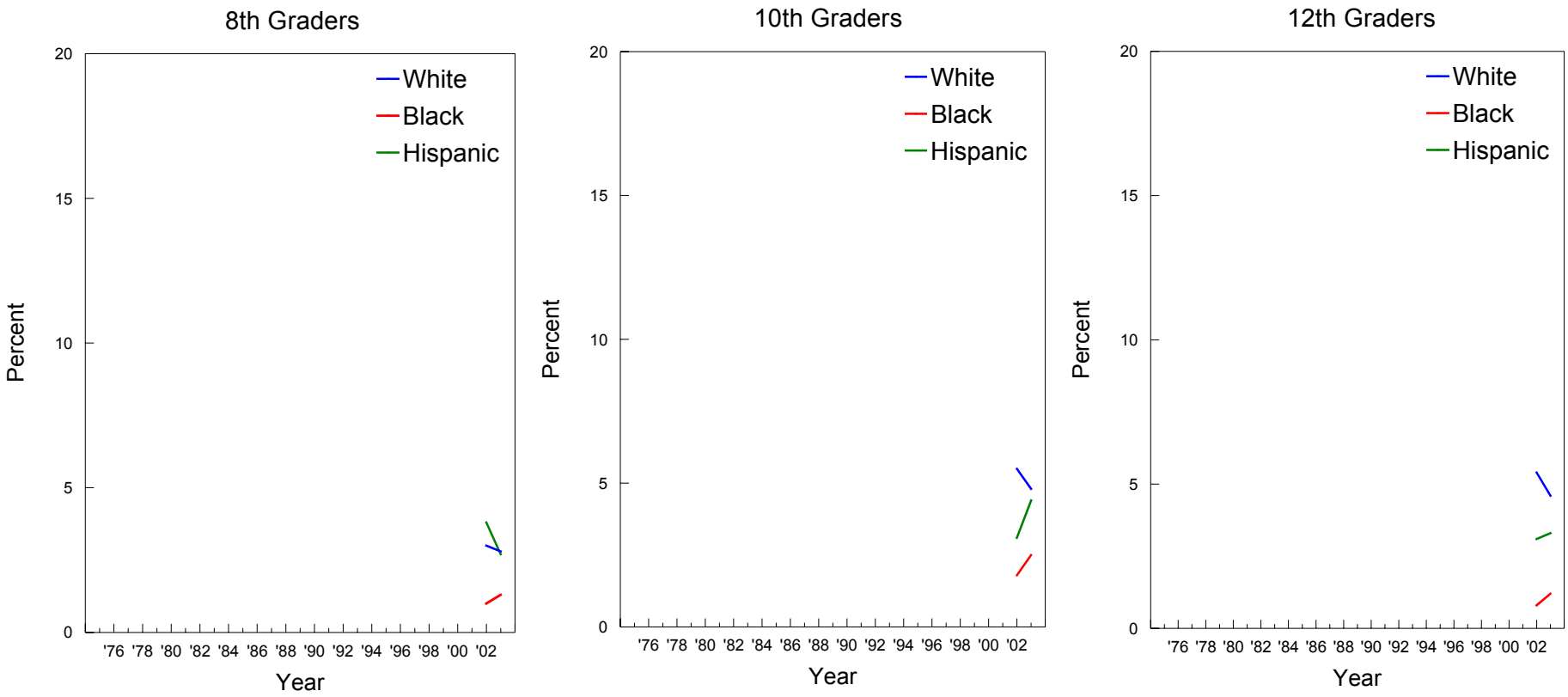
Ritalin: Trends in Annual Prevalence by Population Density



Ritalin: Trends in Annual Prevalence by Parents' Average Education

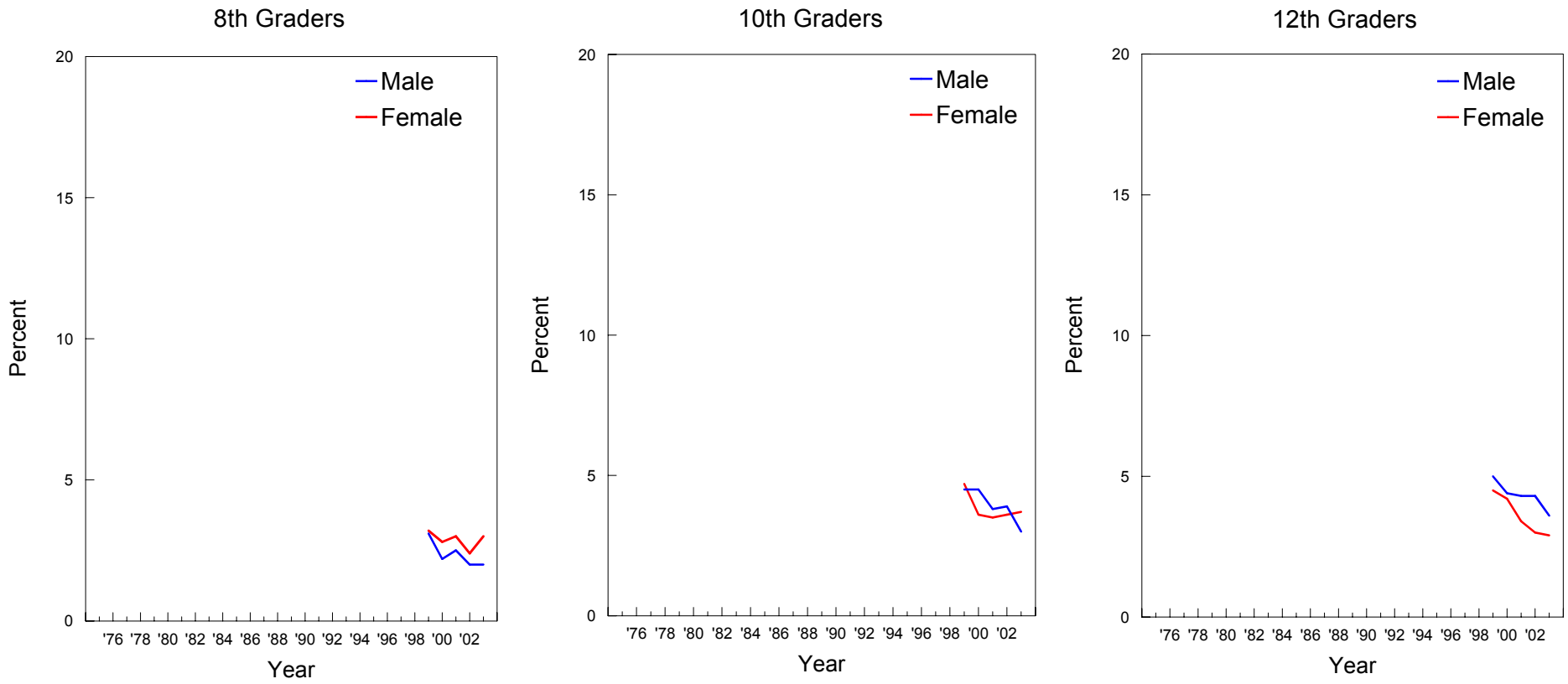


Ritalin: Trends in Annual Prevalence by Race/Ethnicity*

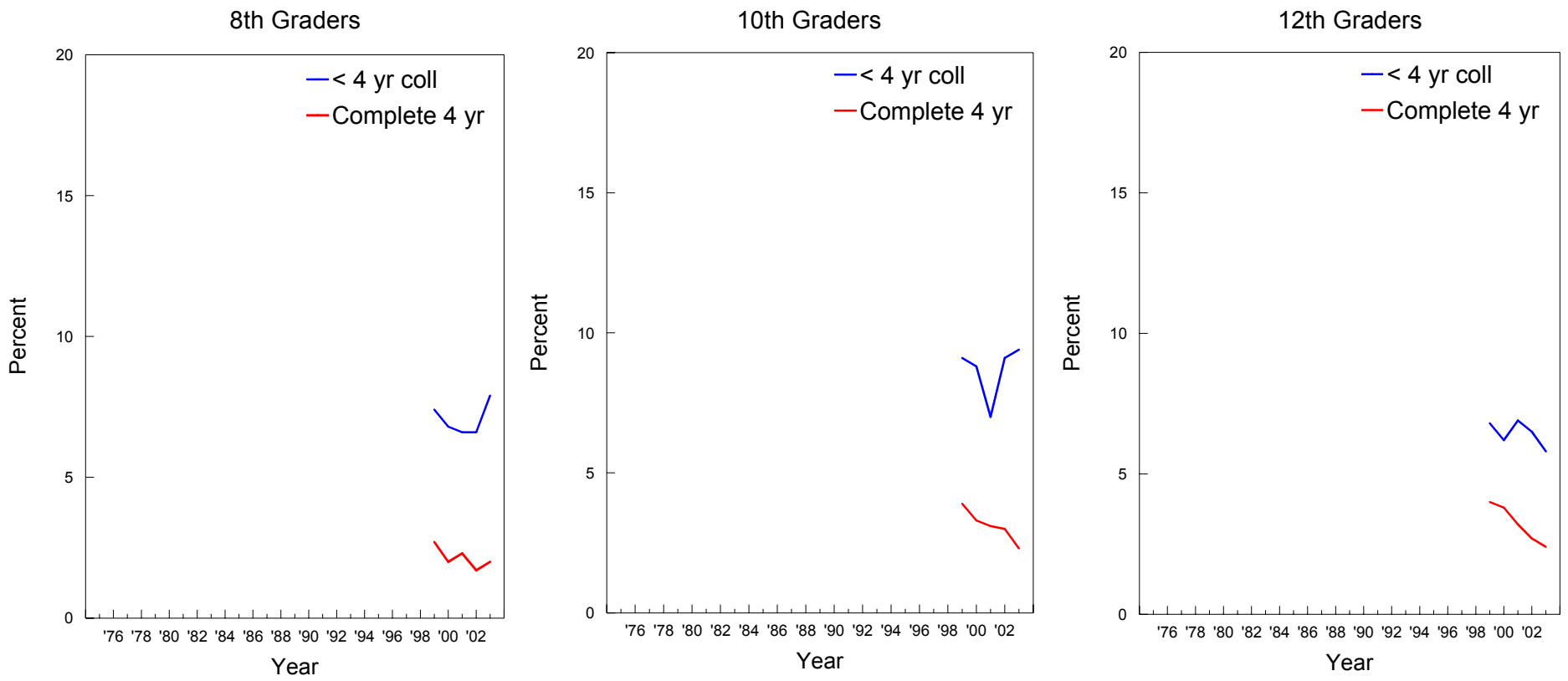


*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

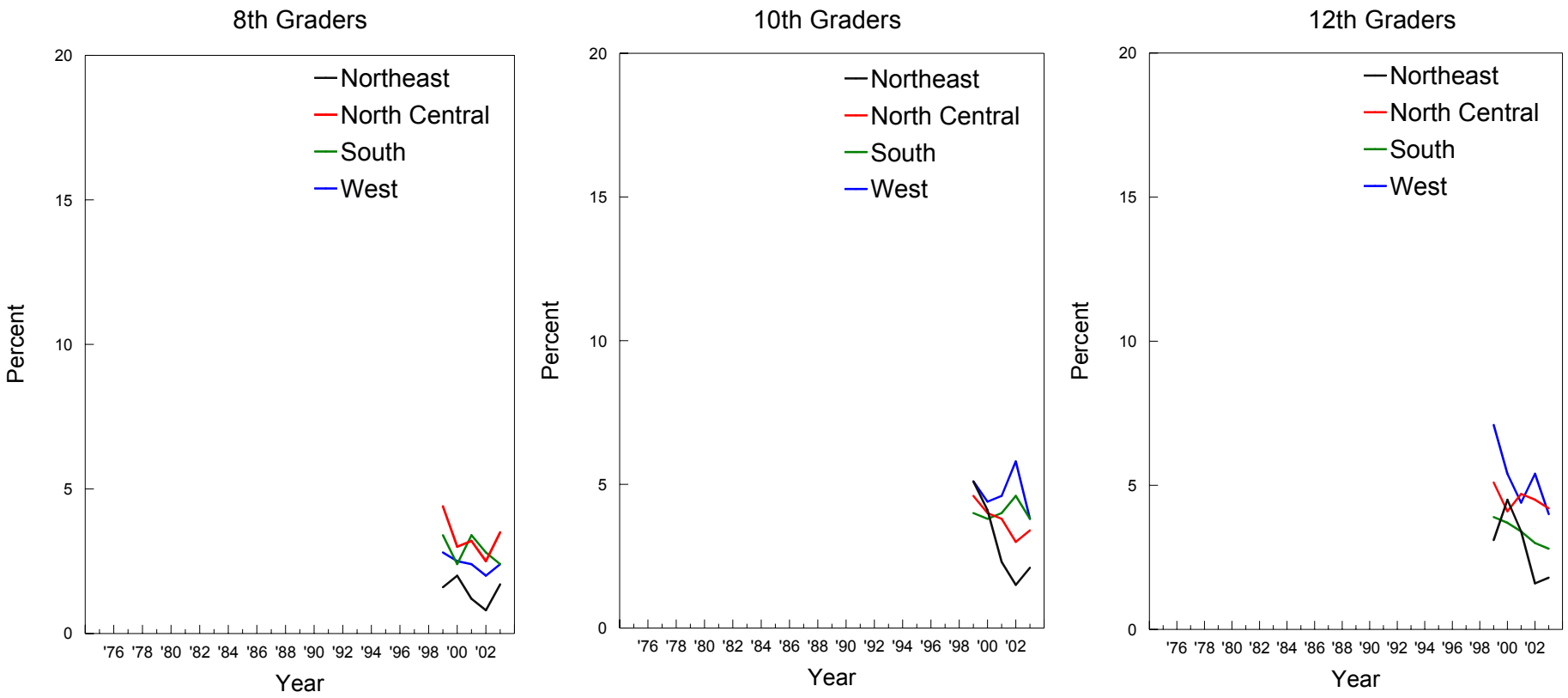
Methamphetamine: Trends in Annual Prevalence by Gender



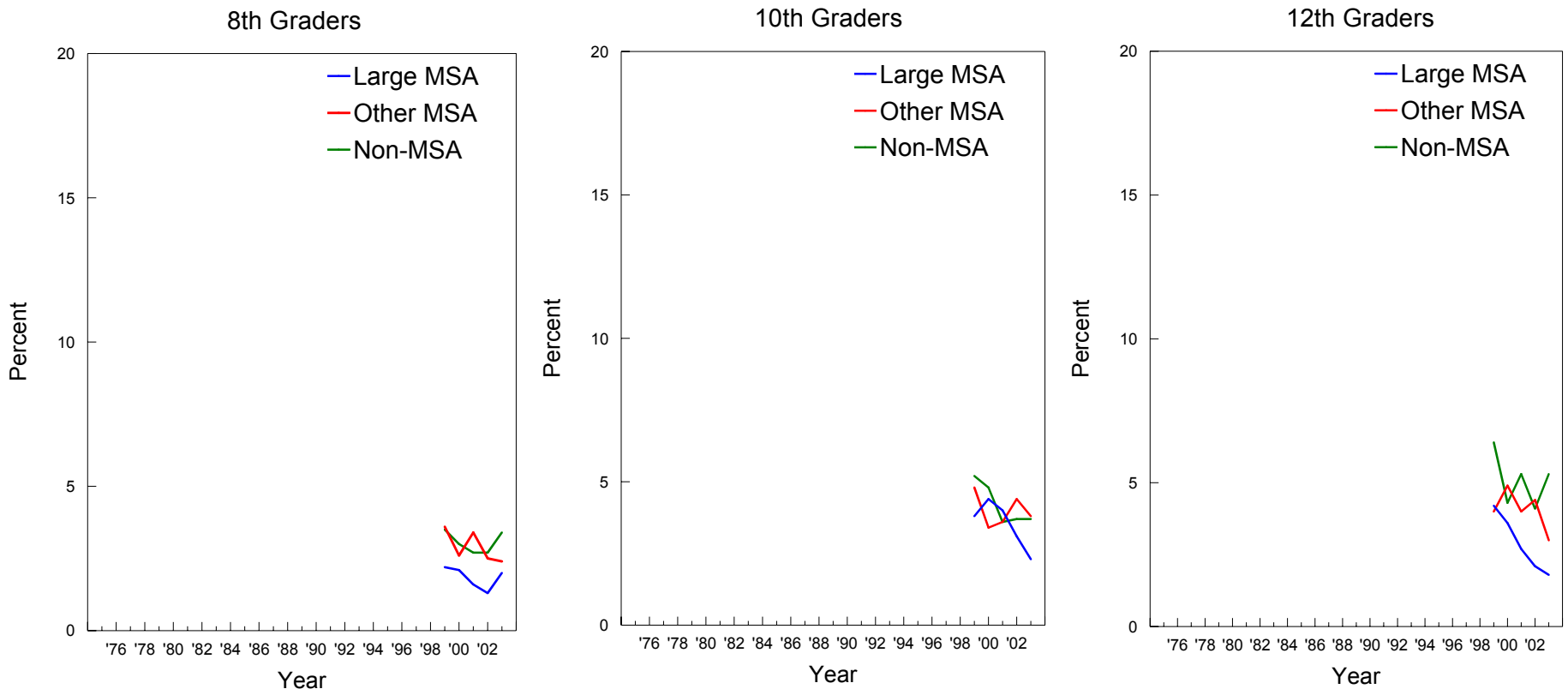
Methamphetamine: Trends in Annual Prevalence by College Plans



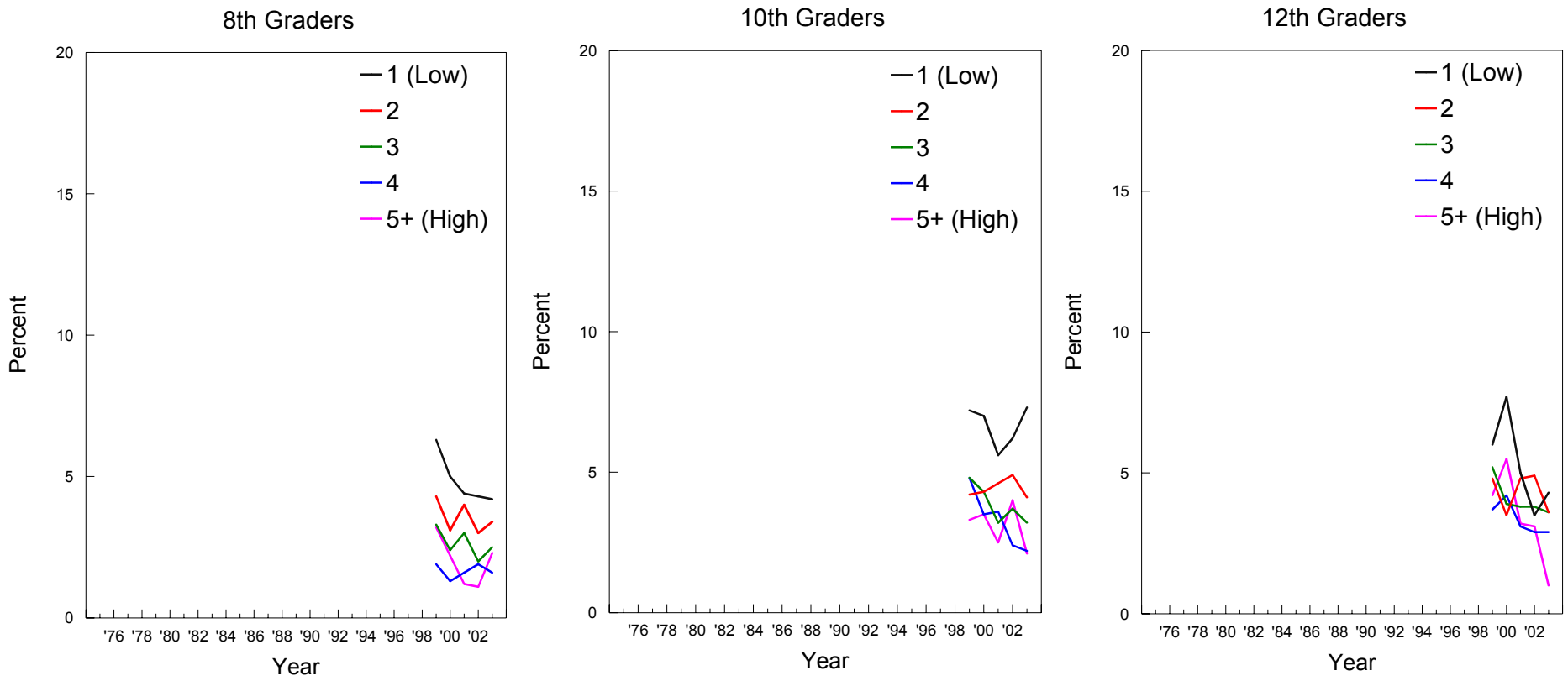
Methamphetamine: Trends in Annual Prevalence by Region



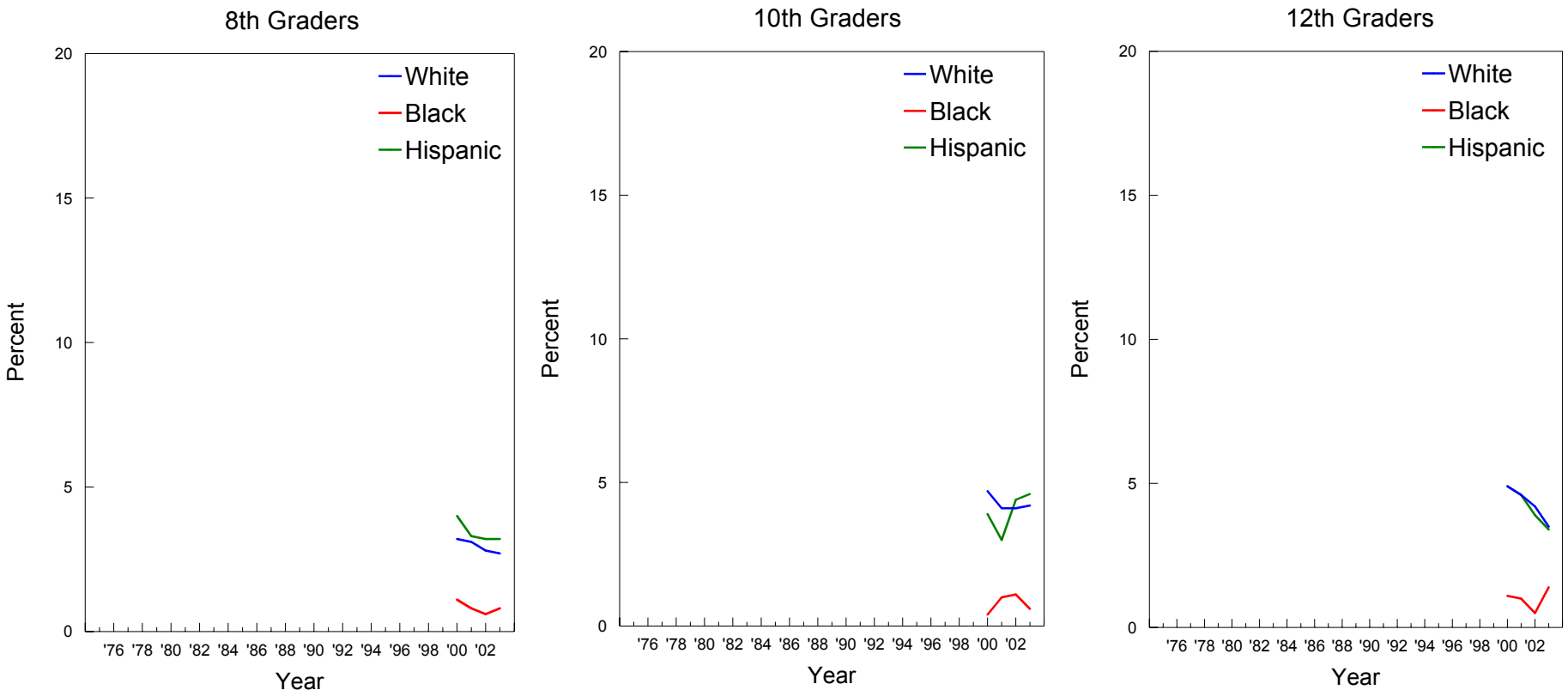
Methamphetamine: Trends in Annual Prevalence by Population Density



Methamphetamine: Trends in Annual Prevalence by Parents' Average Education



Methamphetamine: Trends in Annual Prevalence by Race/Ethnicity*



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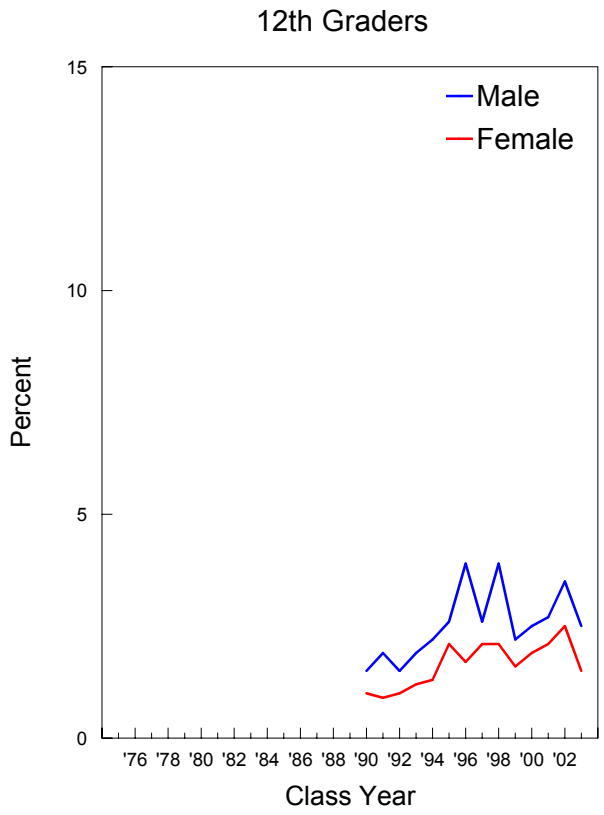
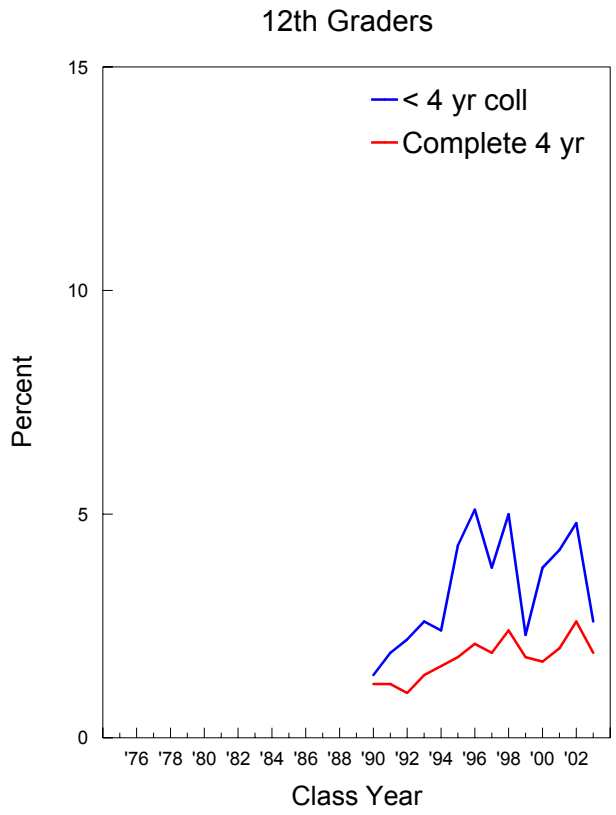
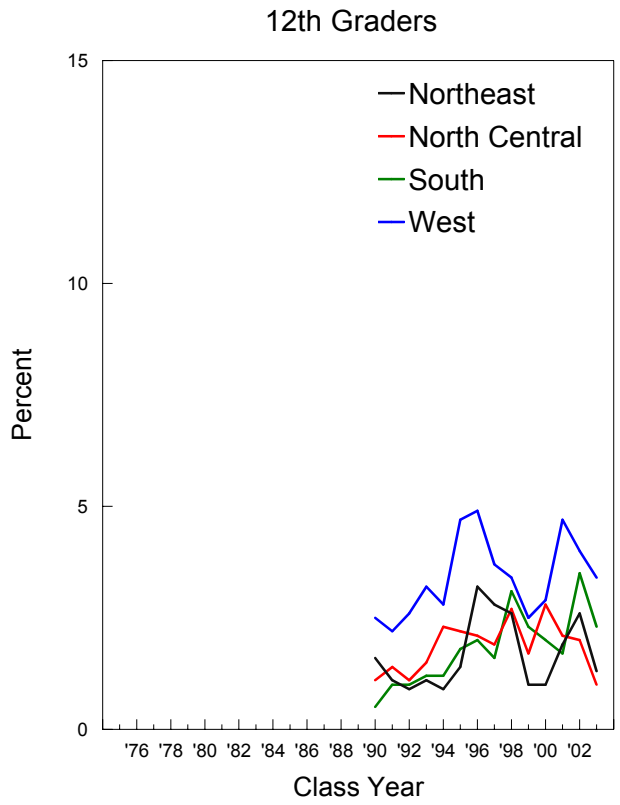
Ice: Trends in Annual Prevalence by Gender



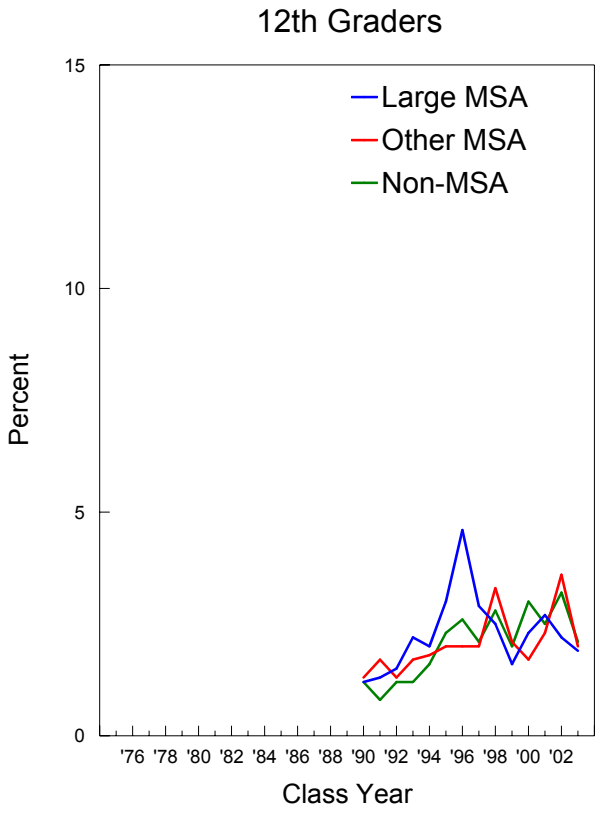
Ice: Trends in Annual Prevalence by College Plans



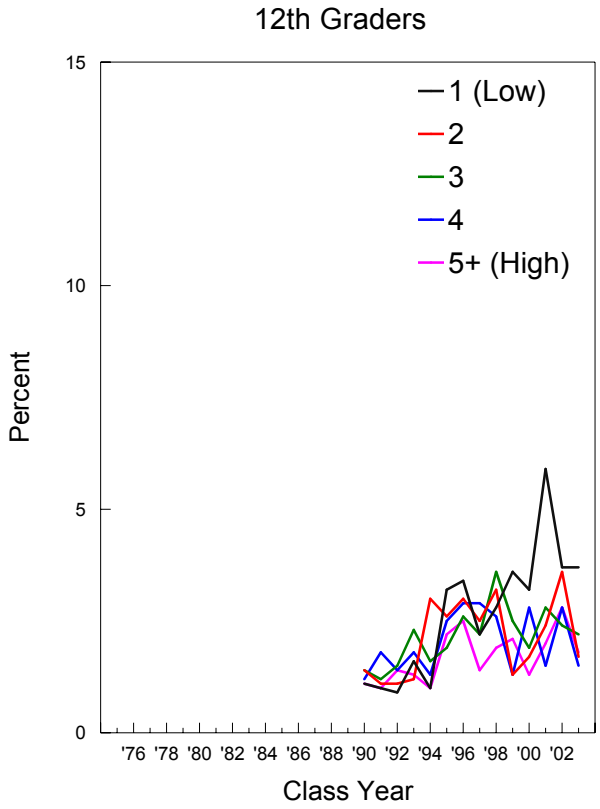
Ice: Trends in Annual Prevalence by Region



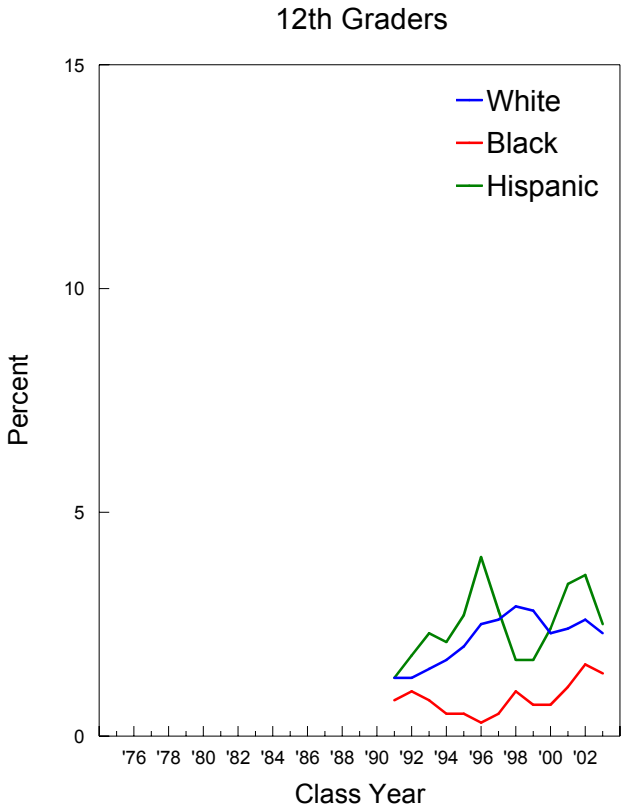
Ice: Trends in Annual Prevalence by Population Density



Ice: Trends in Annual Prevalence by Parents' Average Education



Ice: Trends in Annual Prevalence by Race/Ethnicity*



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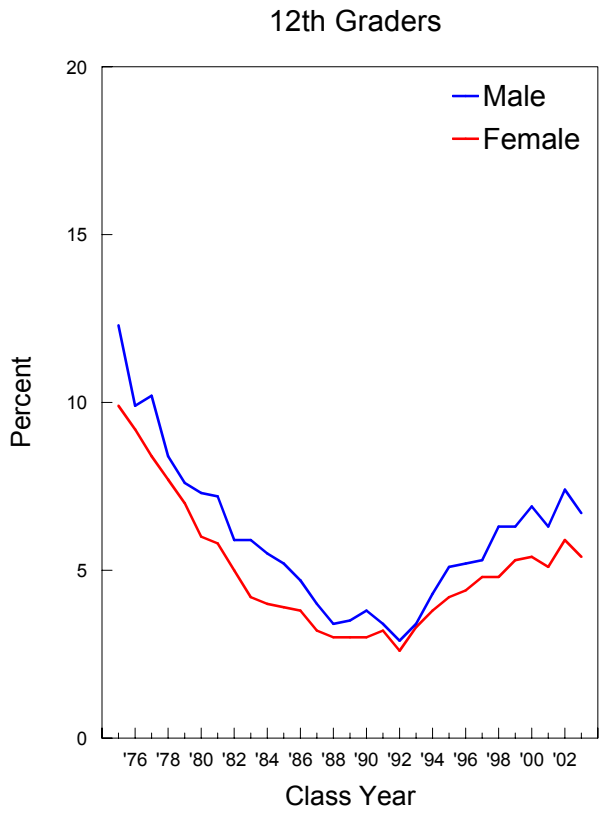
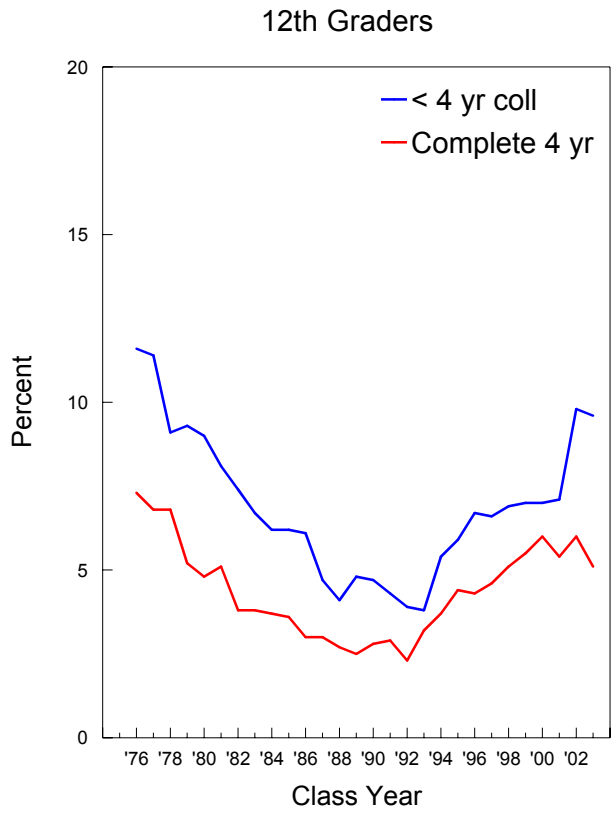
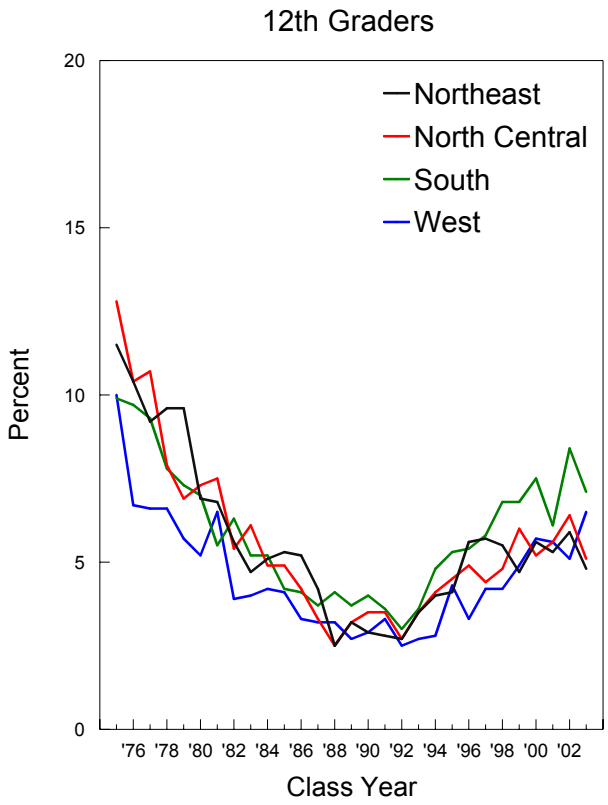
Sedatives (Barbiturates): Trends in Annual Prevalence by Gender



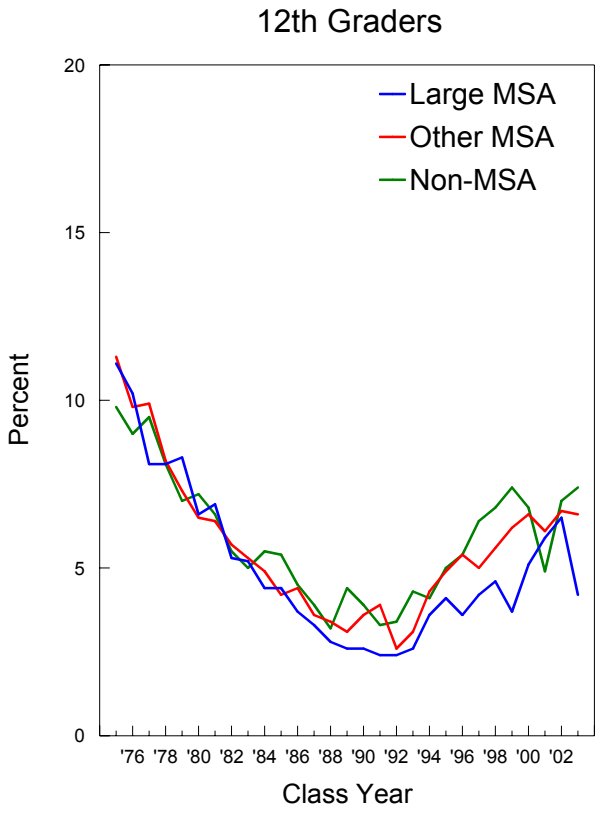
Sedatives (Barbiturates): Trends in Annual Prevalence by College Plans



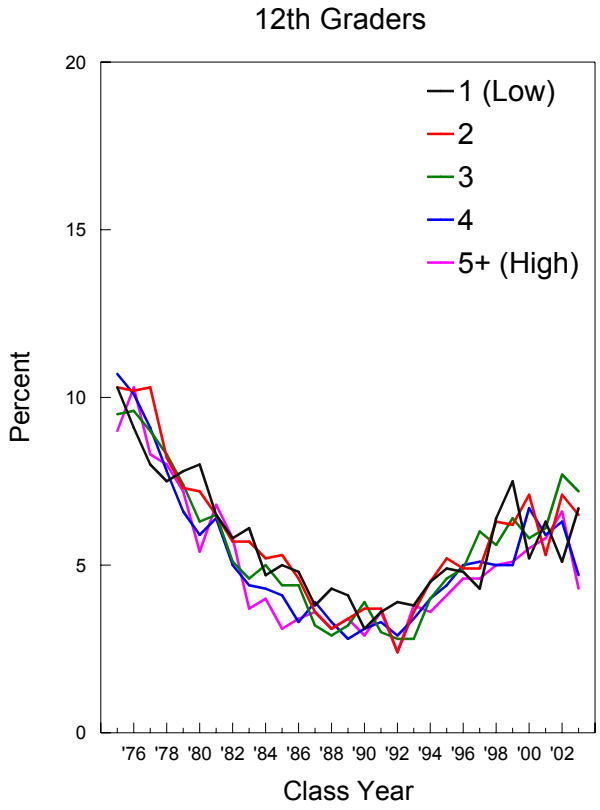
Sedatives (Barbiturates): Trends in Annual Prevalence by Region



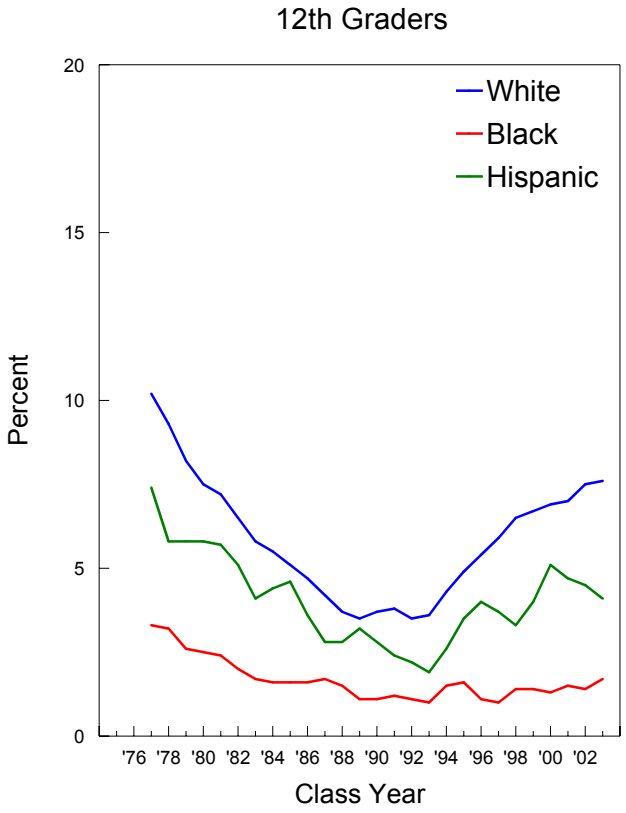
Sedatives (Barbiturates): Trends in Annual Prevalence by Population Density



Sedatives (Barbiturates): Trends in Annual Prevalence by Parents' Average Education

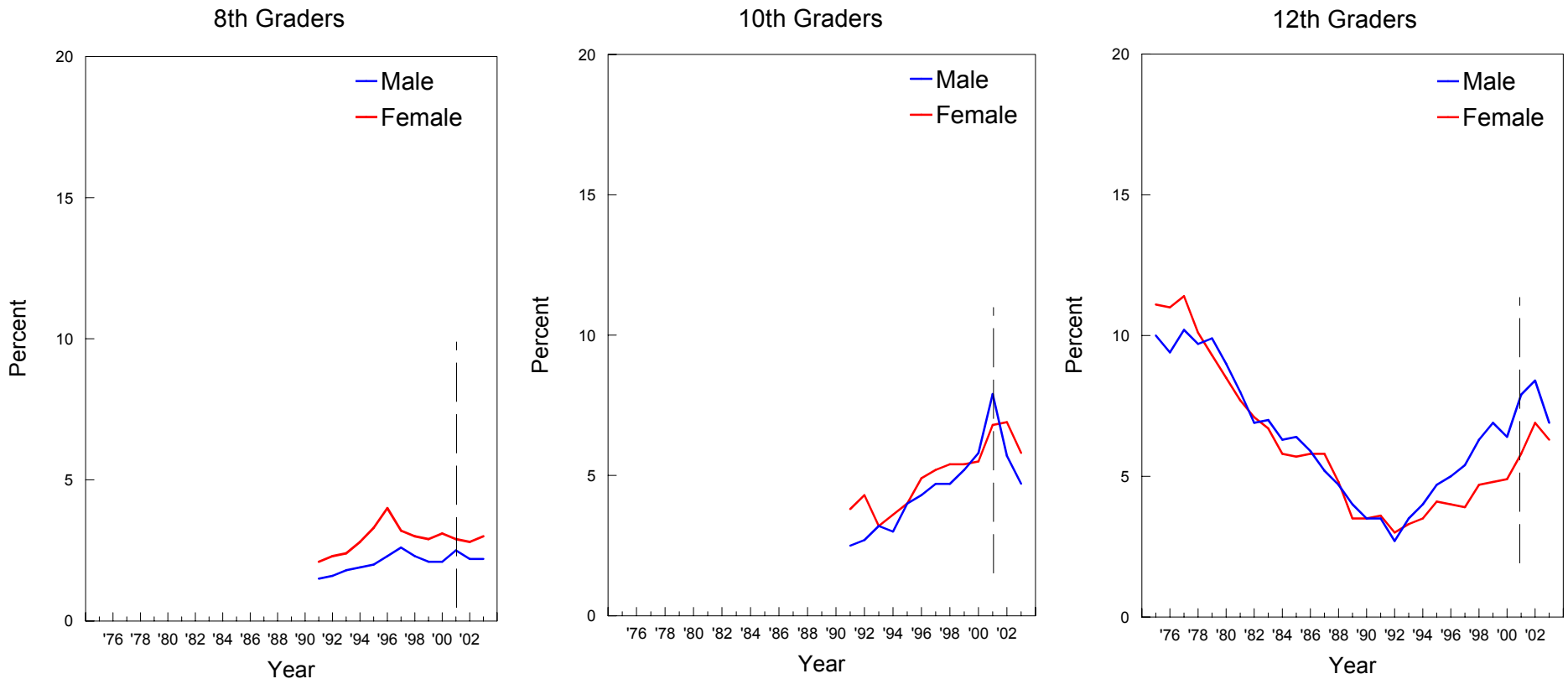


Sedatives (Barbiturates): Trends in Annual Prevalence by Race/Ethnicity*



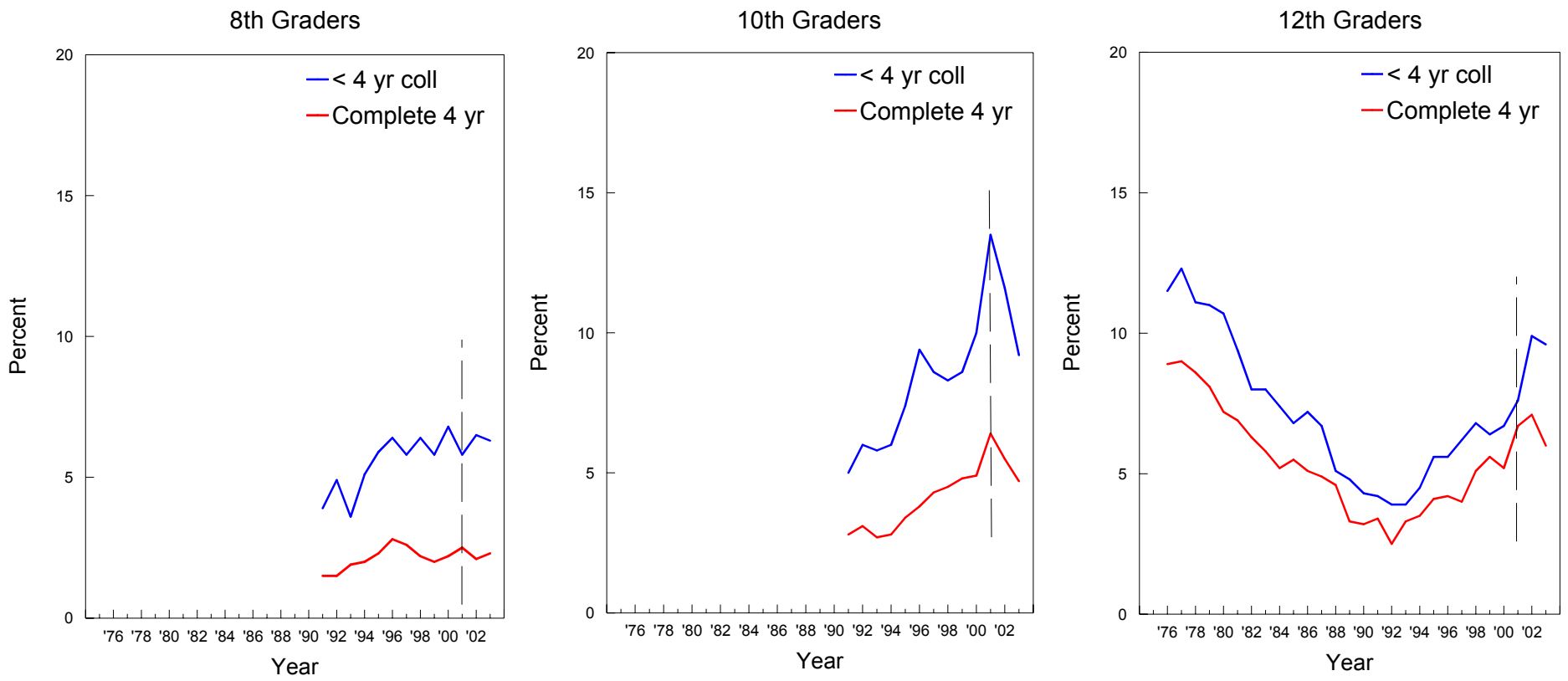
*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

Tranquilizers:* Trends in Annual Prevalence by Gender



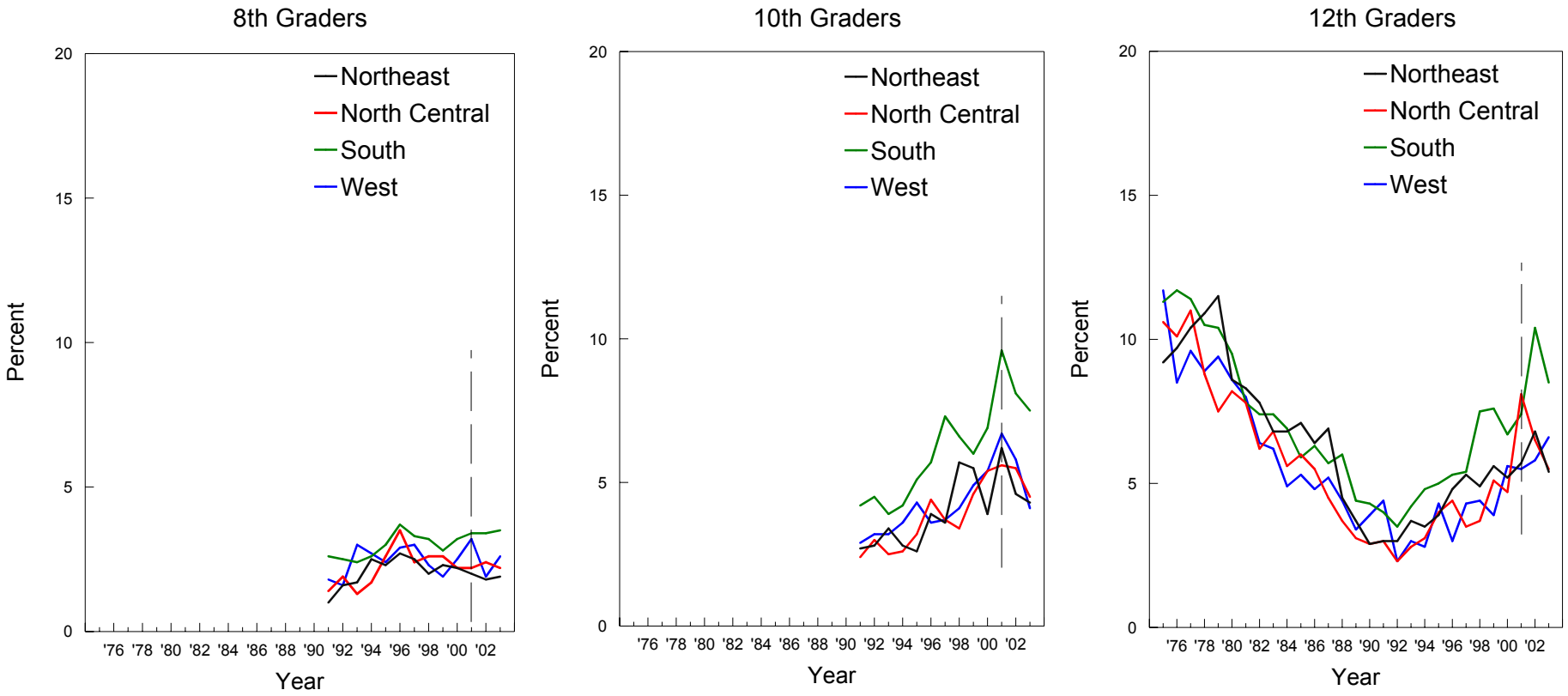
*Beginning in 2001, a revised set of questions on tranquilizer use was introduced. Refer to corresponding tables for further details.

Tranquilizers:* Trends in Annual Prevalence by College Plans



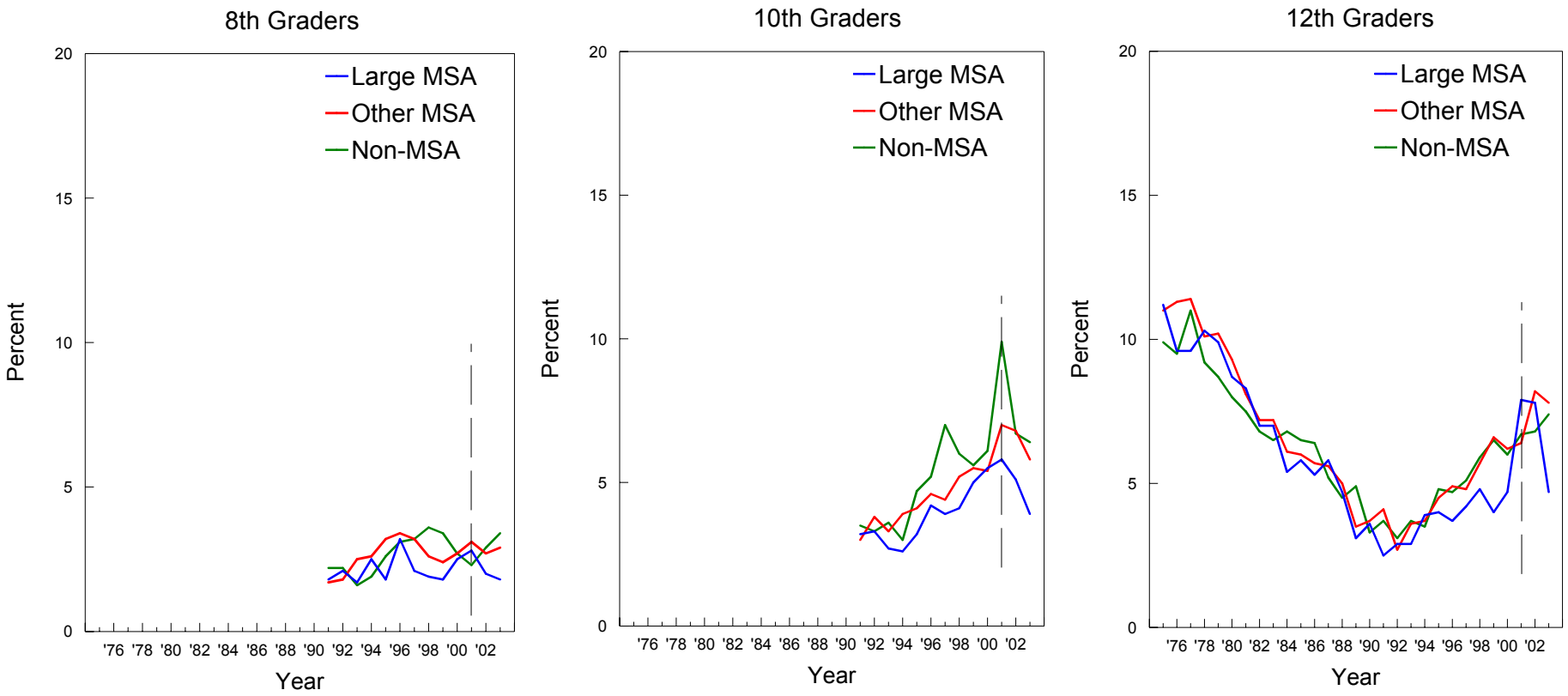
*Beginning in 2001, a revised set of questions on tranquilizer use was introduced. Refer to corresponding tables for further details.

Tranquilizers:* Trends in Annual Prevalence by Region



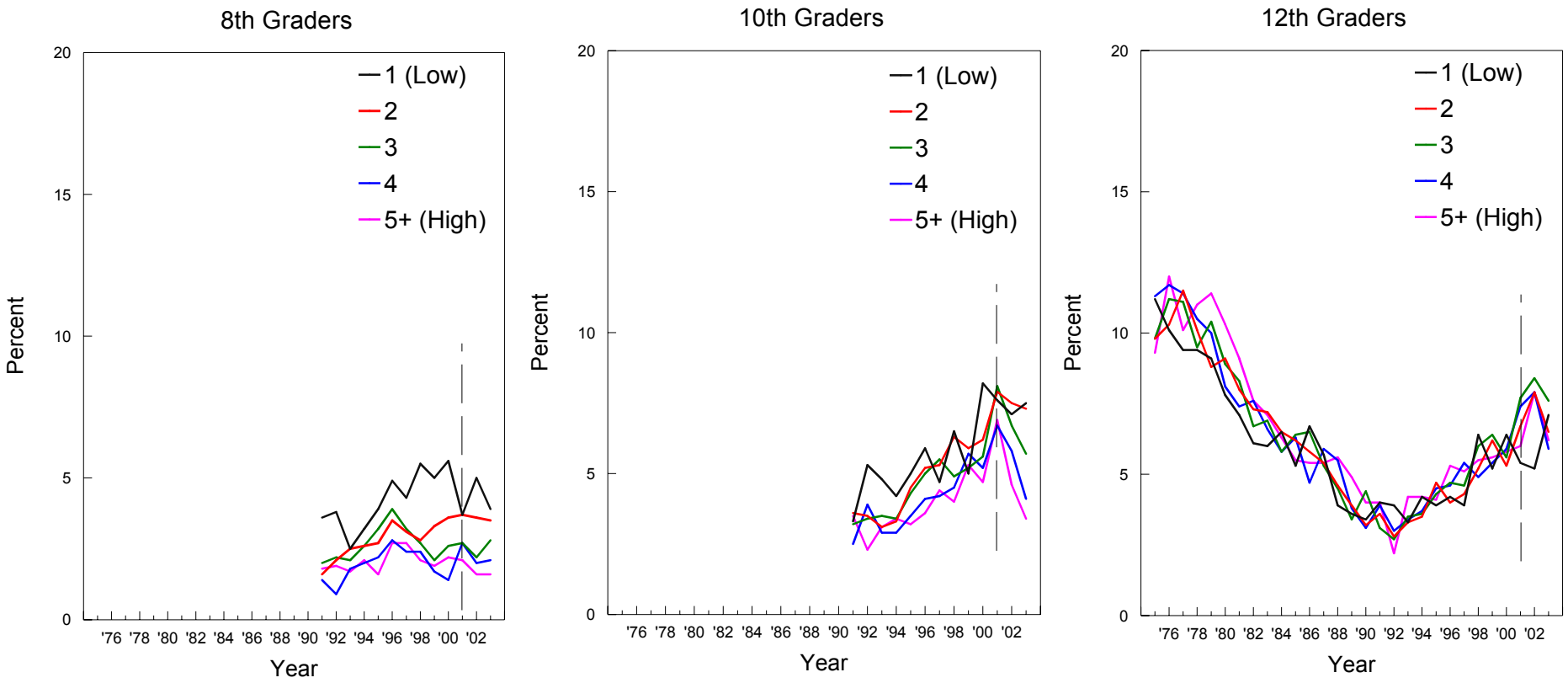
*Beginning in 2001, a revised set of questions on tranquilizer use was introduced. Refer to corresponding tables for further details.

Tranquilizers:* Trends in Annual Prevalence by Population Density



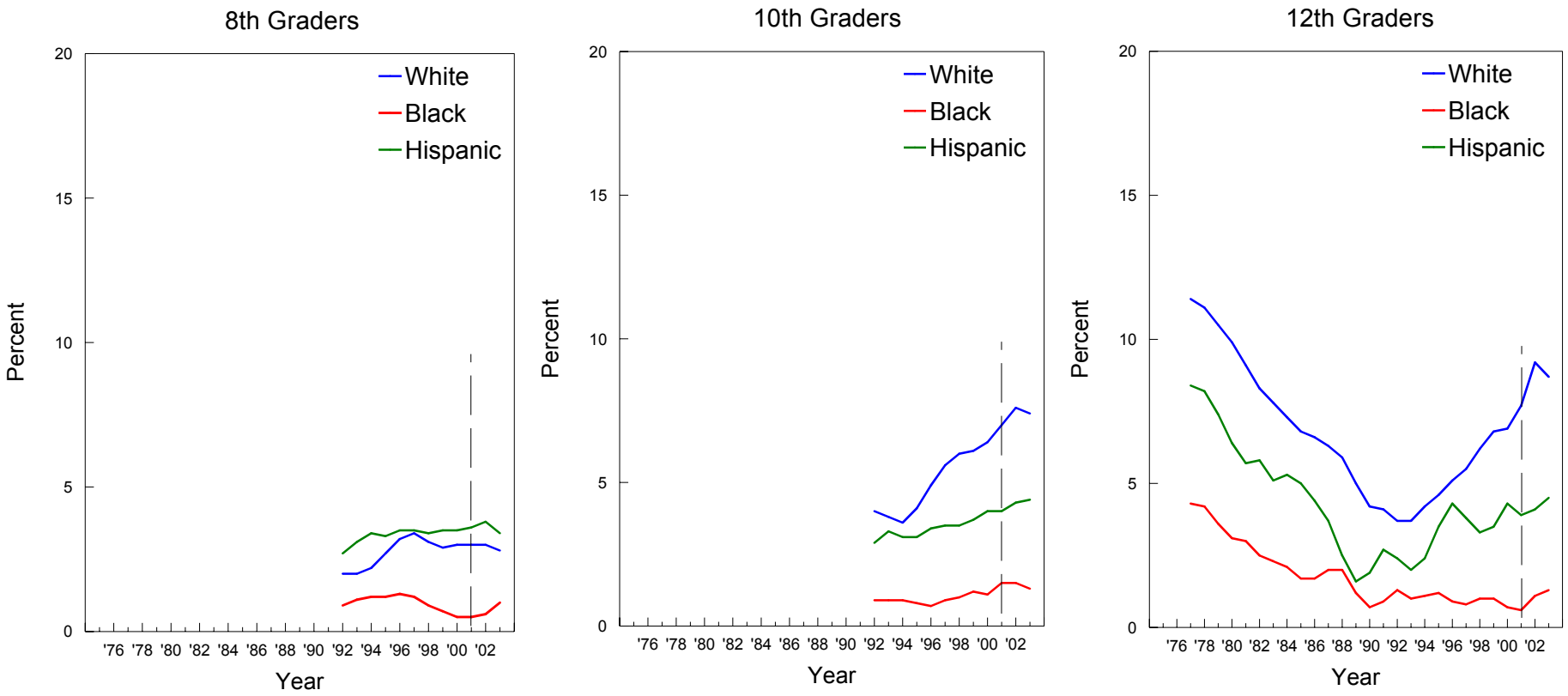
*Beginning in 2001, a revised set of questions on tranquilizer use was introduced. Refer to corresponding tables for further details.

Tranquilizers:* Trends in Annual Prevalence by Parents' Average Education



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

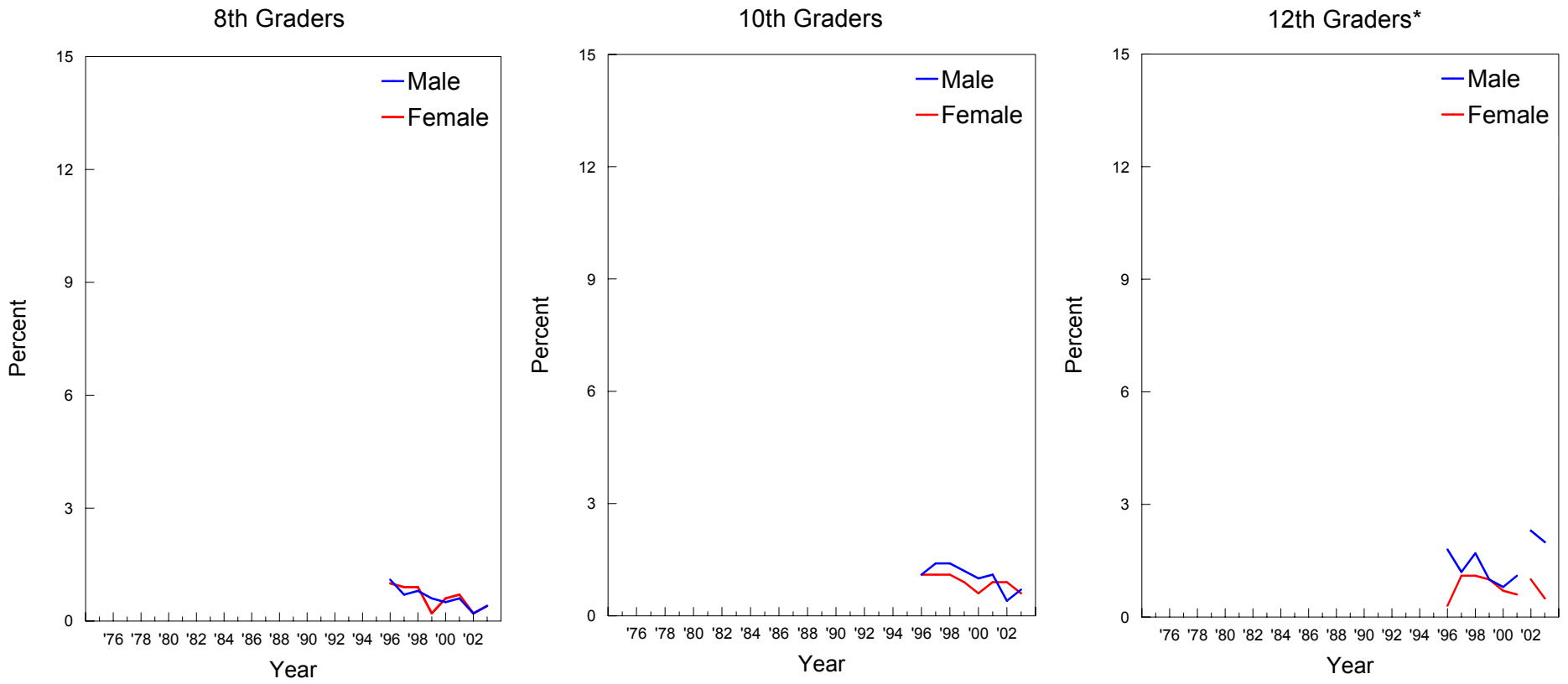
Tranquilizers:* Trends in Annual Prevalence by Race/Ethnicity**



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

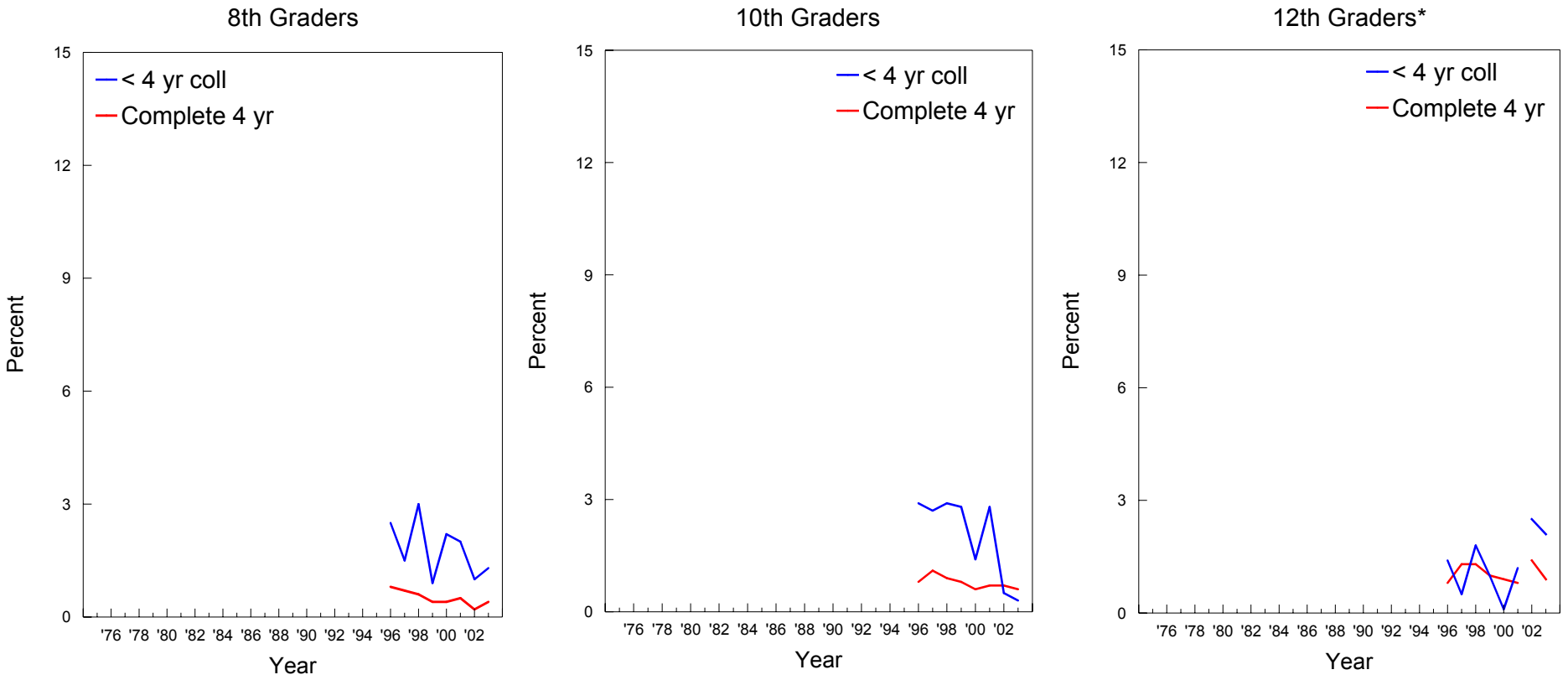
**These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

Rohypnol: Trends in Annual Prevalence by Gender



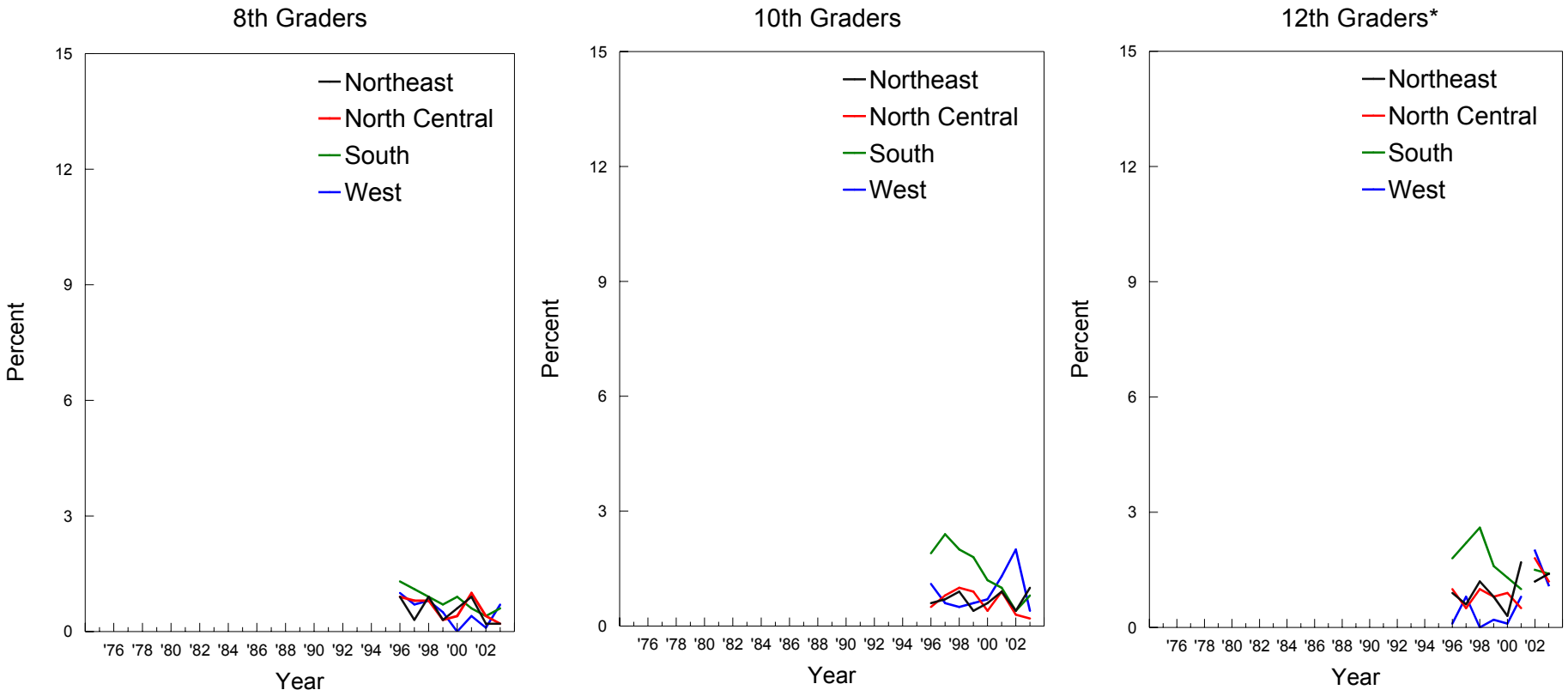
*The 2001 and 2002 data are not comparable due to changes in the questionnaire forms.

Rohypnol: Trends in Annual Prevalence by College Plans



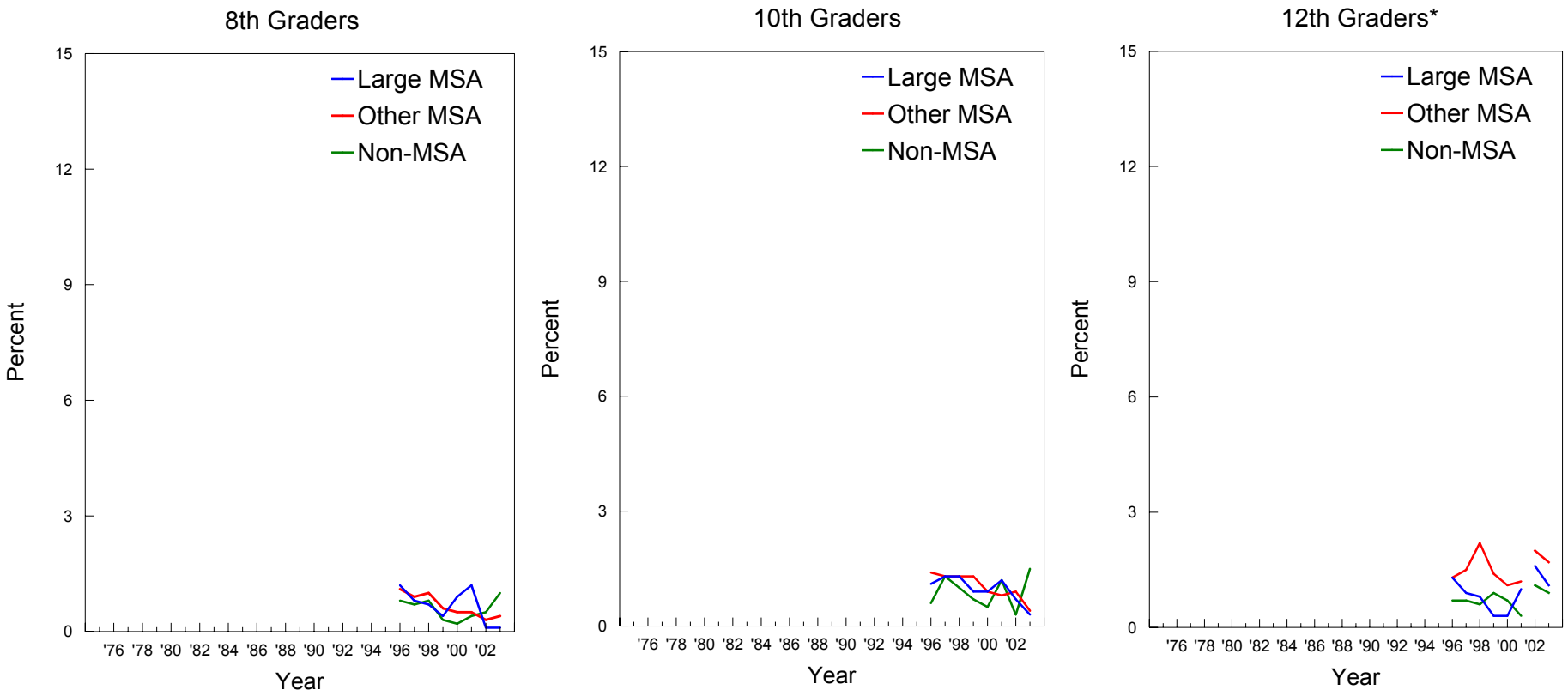
*The 2001 and 2002 data are not comparable due to changes in the questionnaire forms.

Rohypnol: Trends in Annual Prevalence by Region



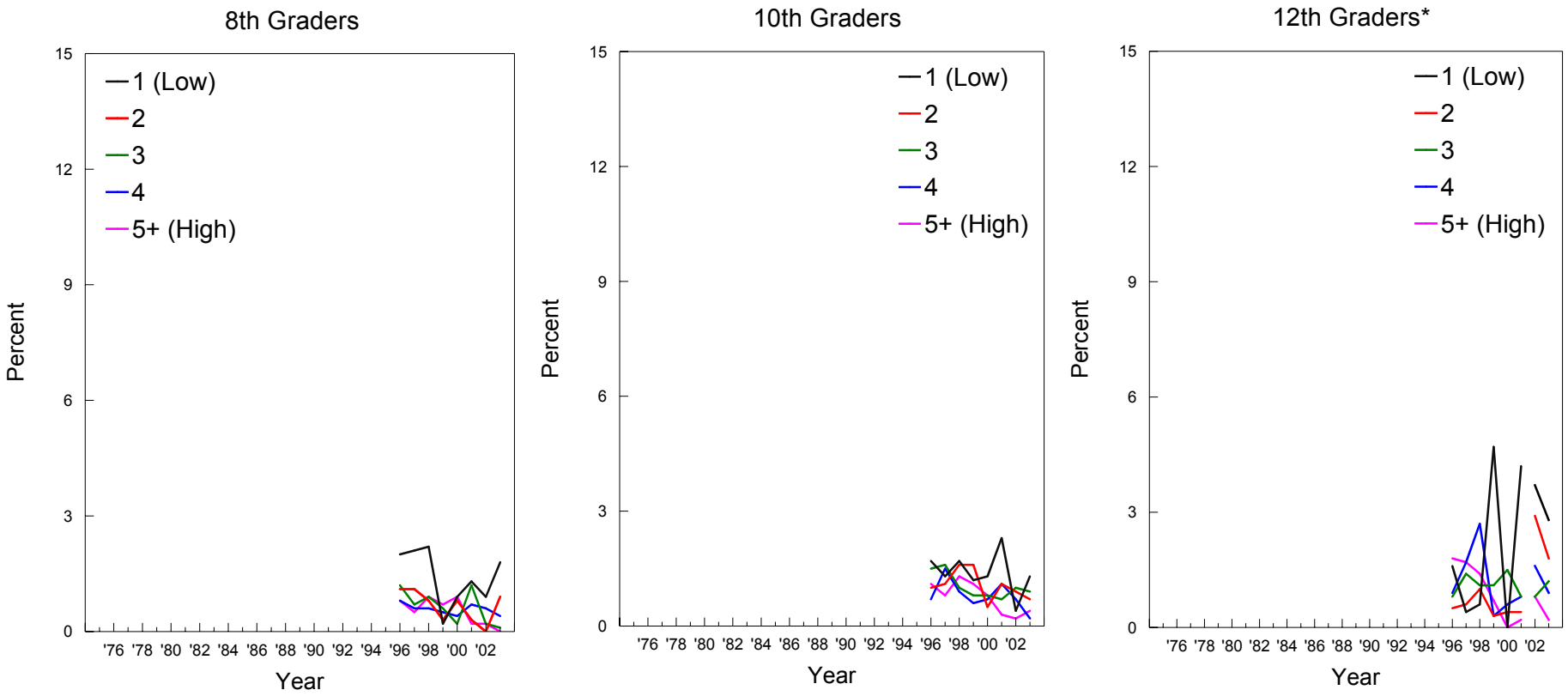
*The 2001 and 2002 data are not comparable due to changes in the questionnaire forms.

Rohypnol: Trends in Annual Prevalence by Population Density



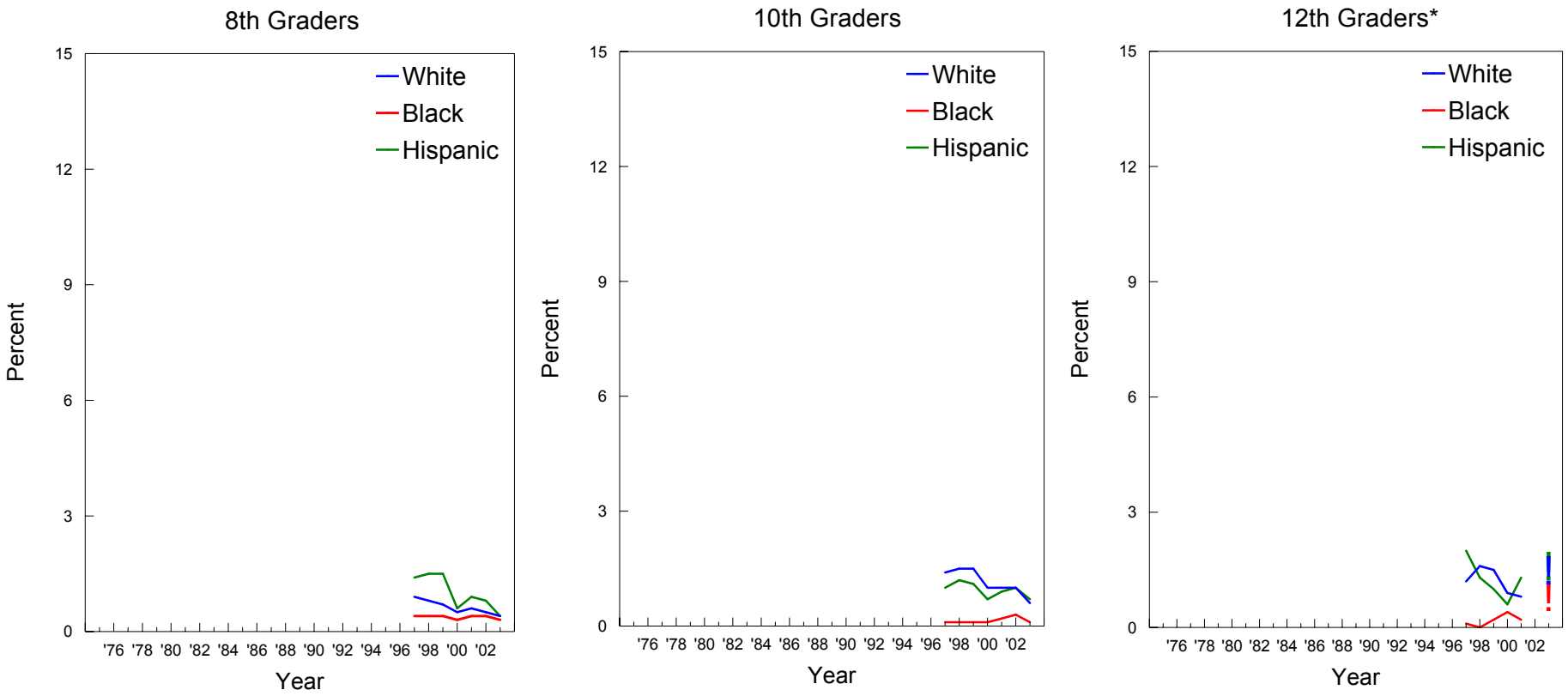
*The 2001 and 2002 data are not comparable due to changes in the questionnaire forms.

Rohypnol: Trends in Annual Prevalence by Parents' Average Education



*The 2001 and 2002 data are not comparable due to changes in the questionnaire forms.

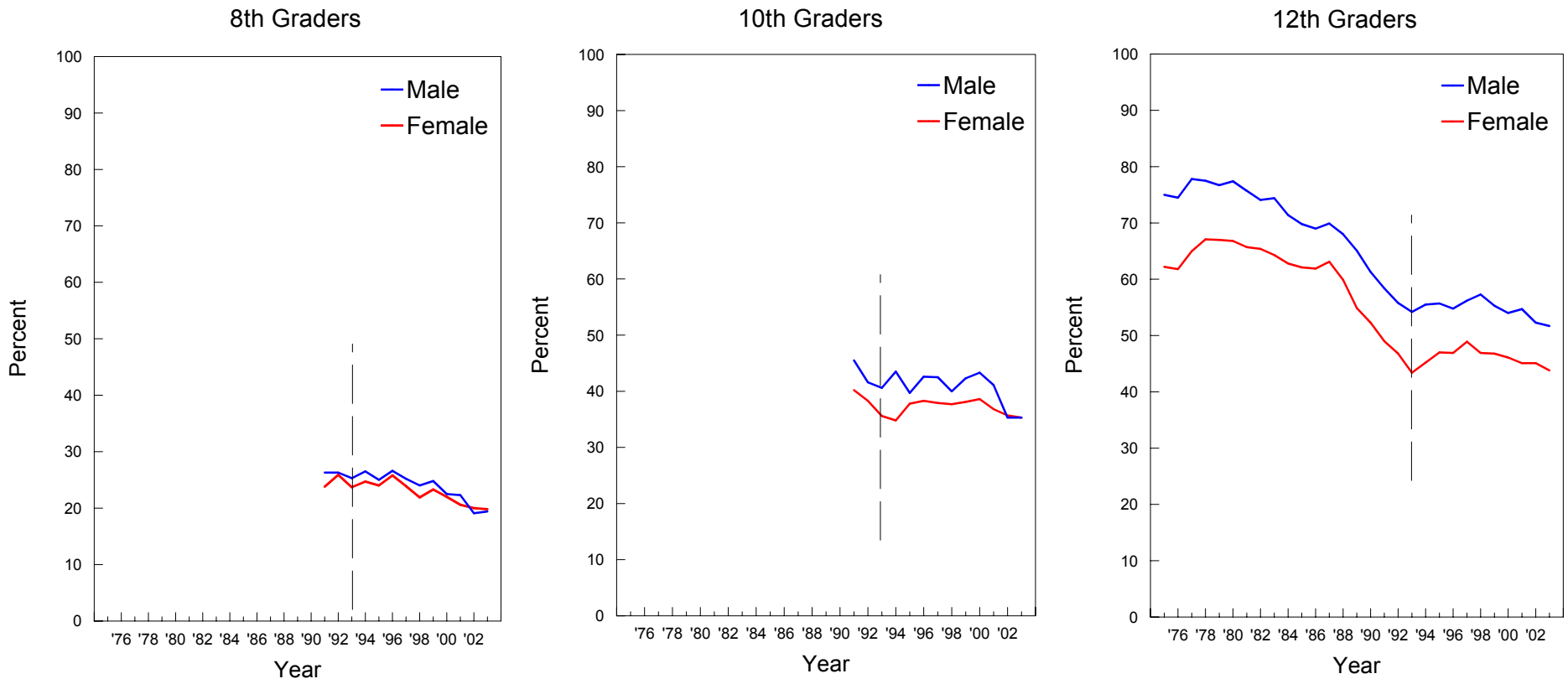
Rohypnol: Trends in Annual Prevalence by Race/Ethnicity**



*There is no data available for 2002 due to changes in the questionnaire forms. Data from 2003 on is not comparable to that of previous years.

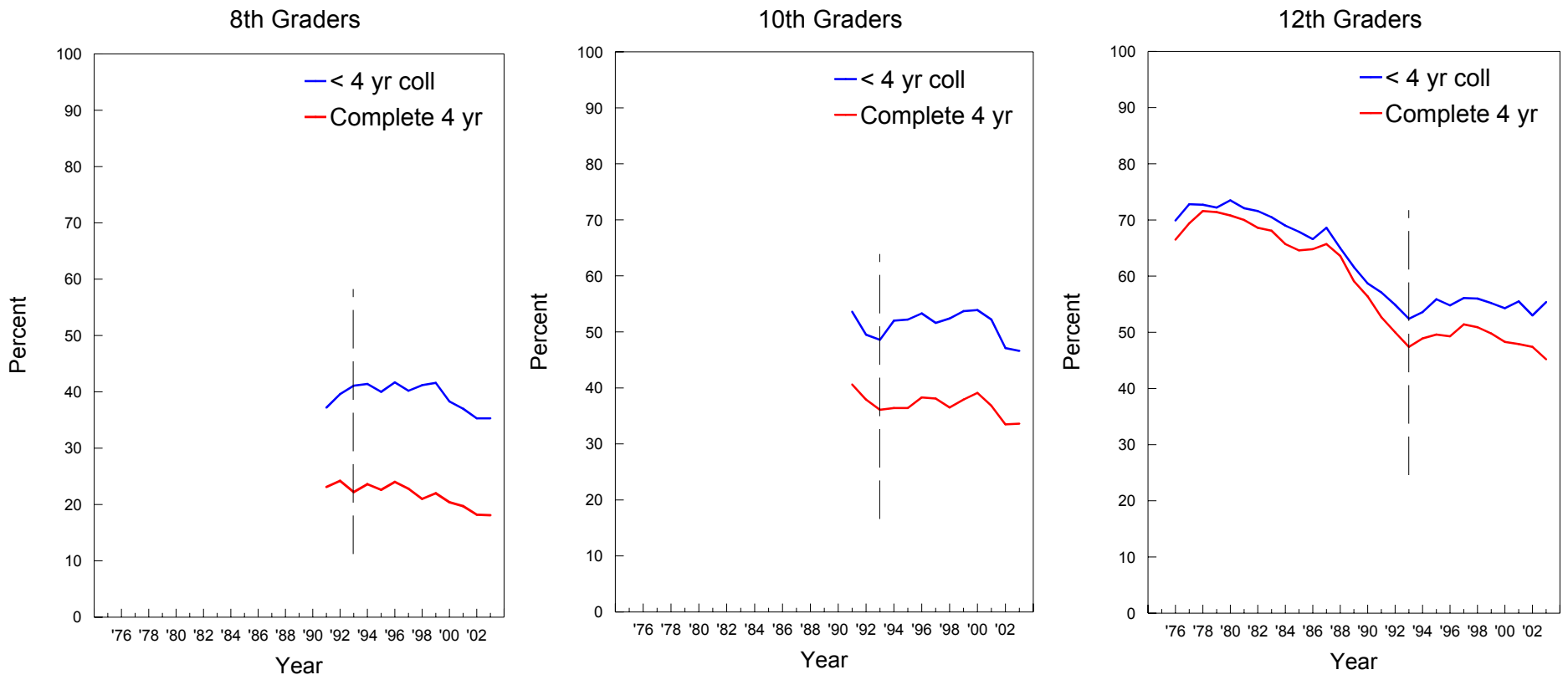
**These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

Alcohol:* Trends in 30-Day Prevalence by Gender



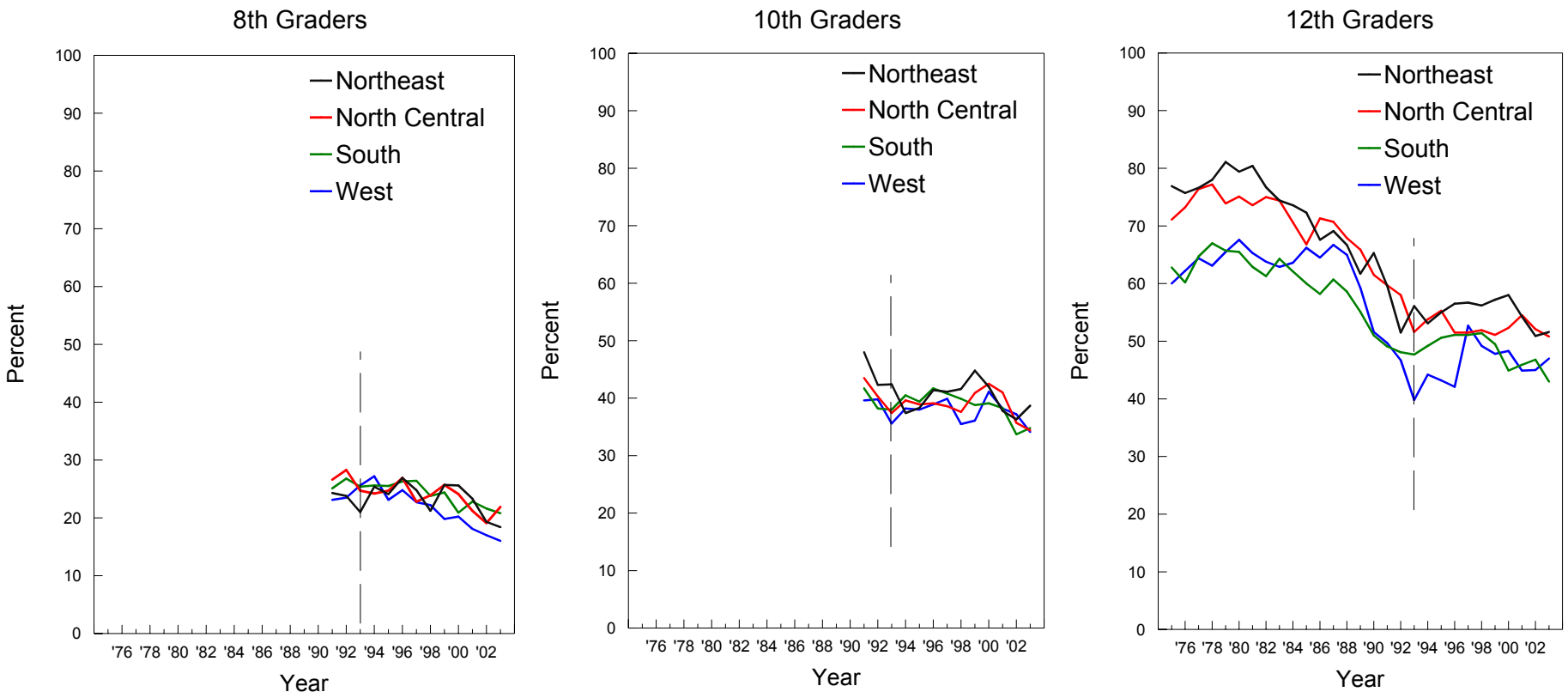
*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.

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



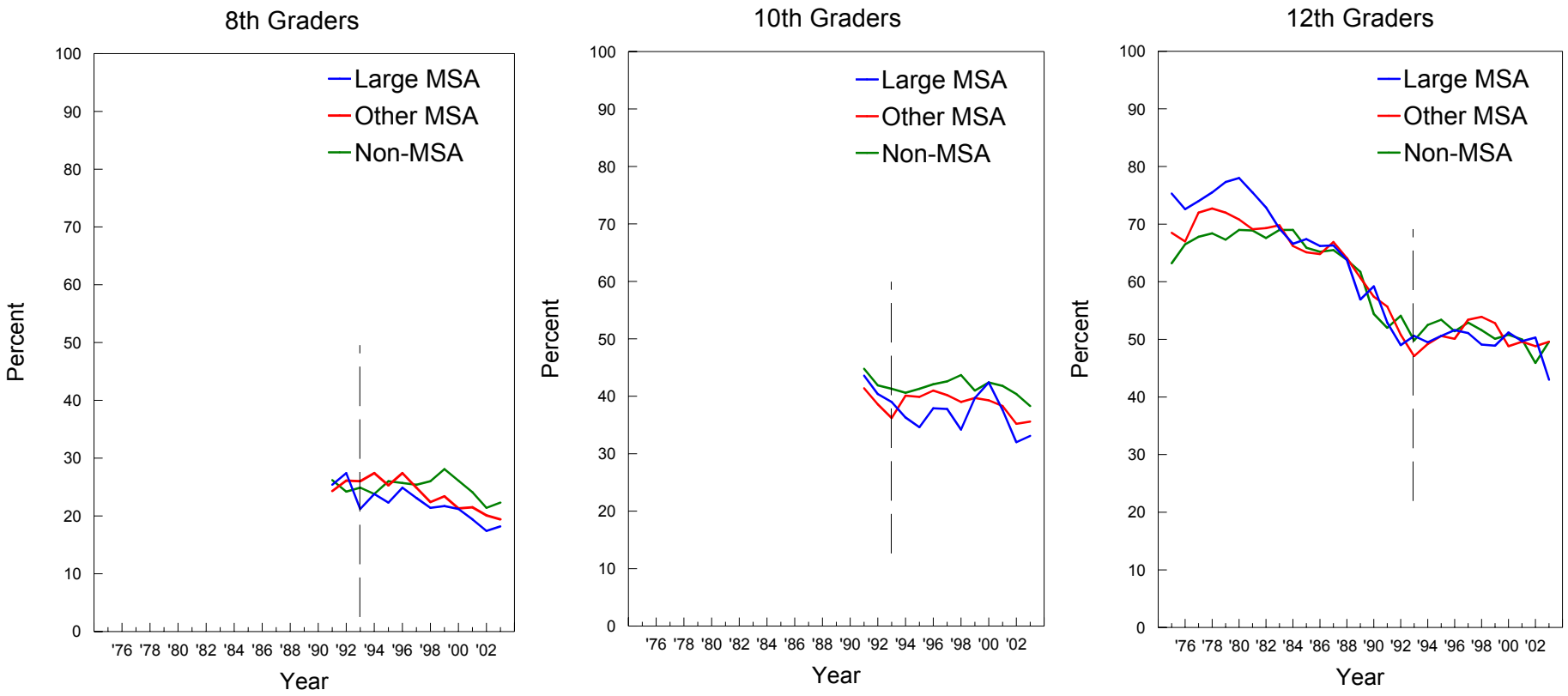
*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.

Alcohol:* Trends in 30-Day Prevalence by Region



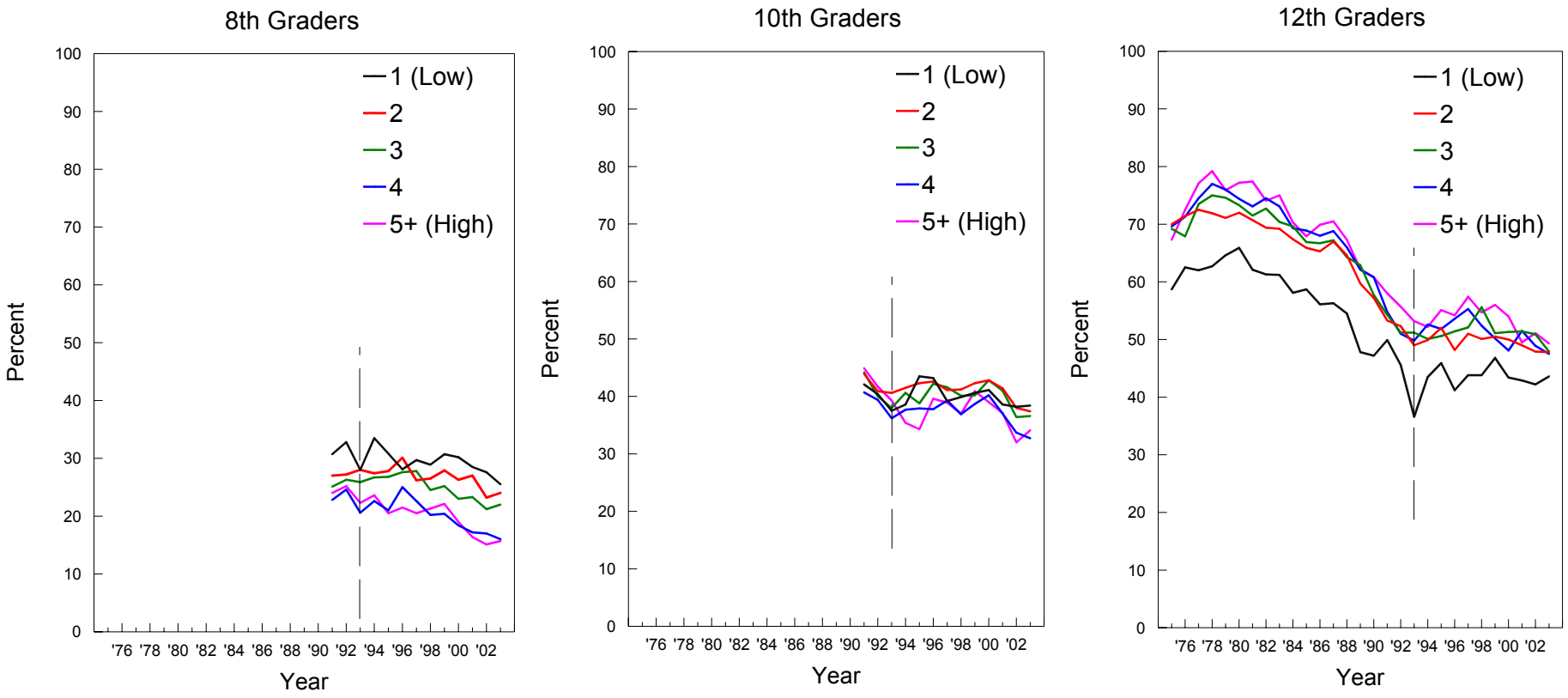
*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.

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



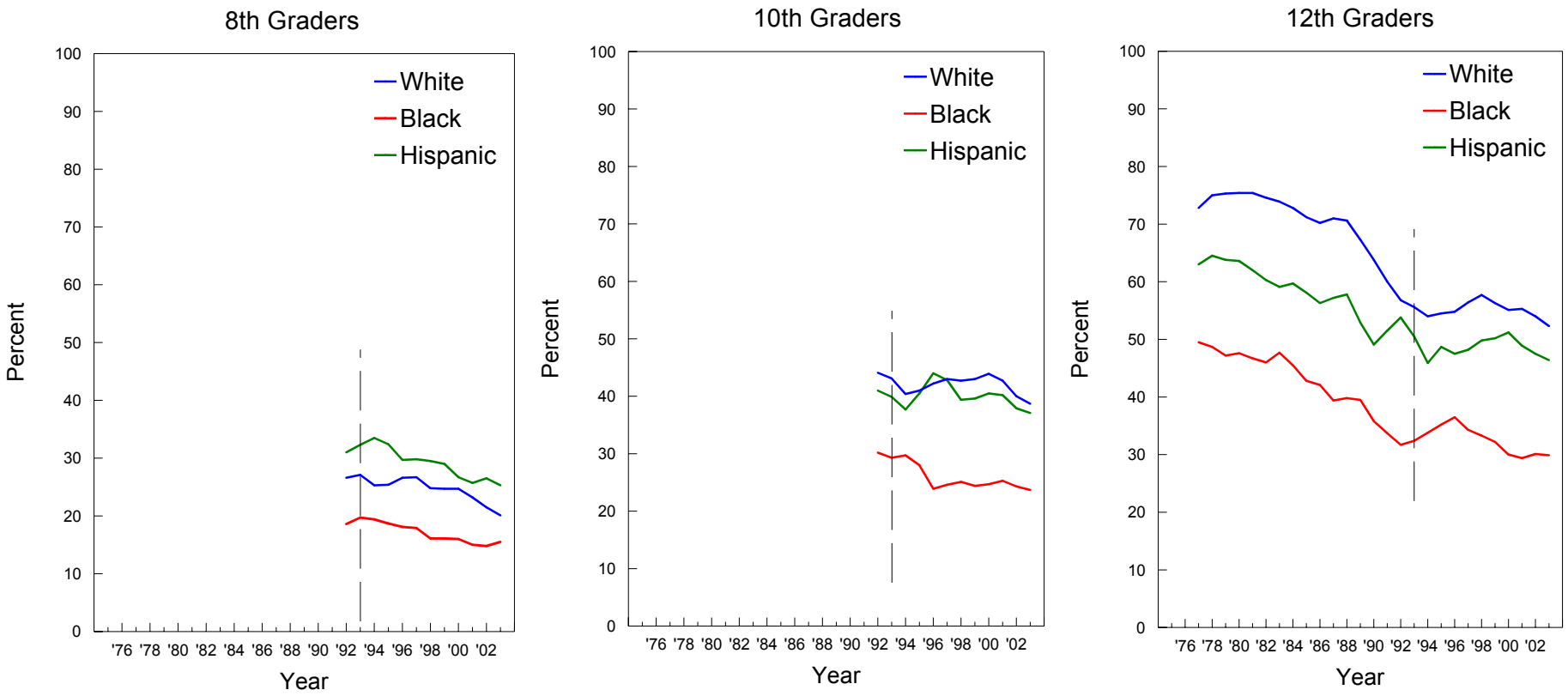
*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.

Alcohol:* Trends in 30-Day Prevalence by Parents' Average Education



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

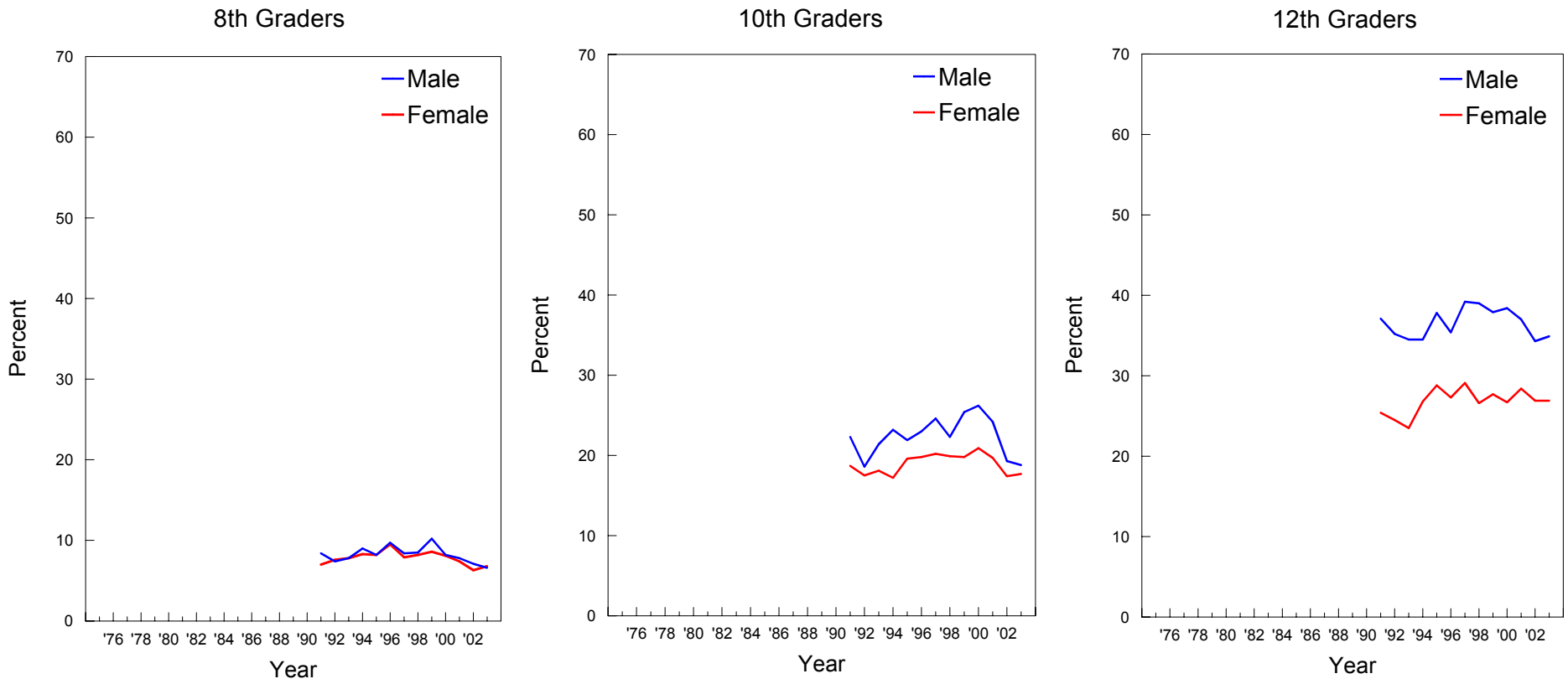
Alcohol:* Trends in 30-Day Prevalence by Race/Ethnicity**



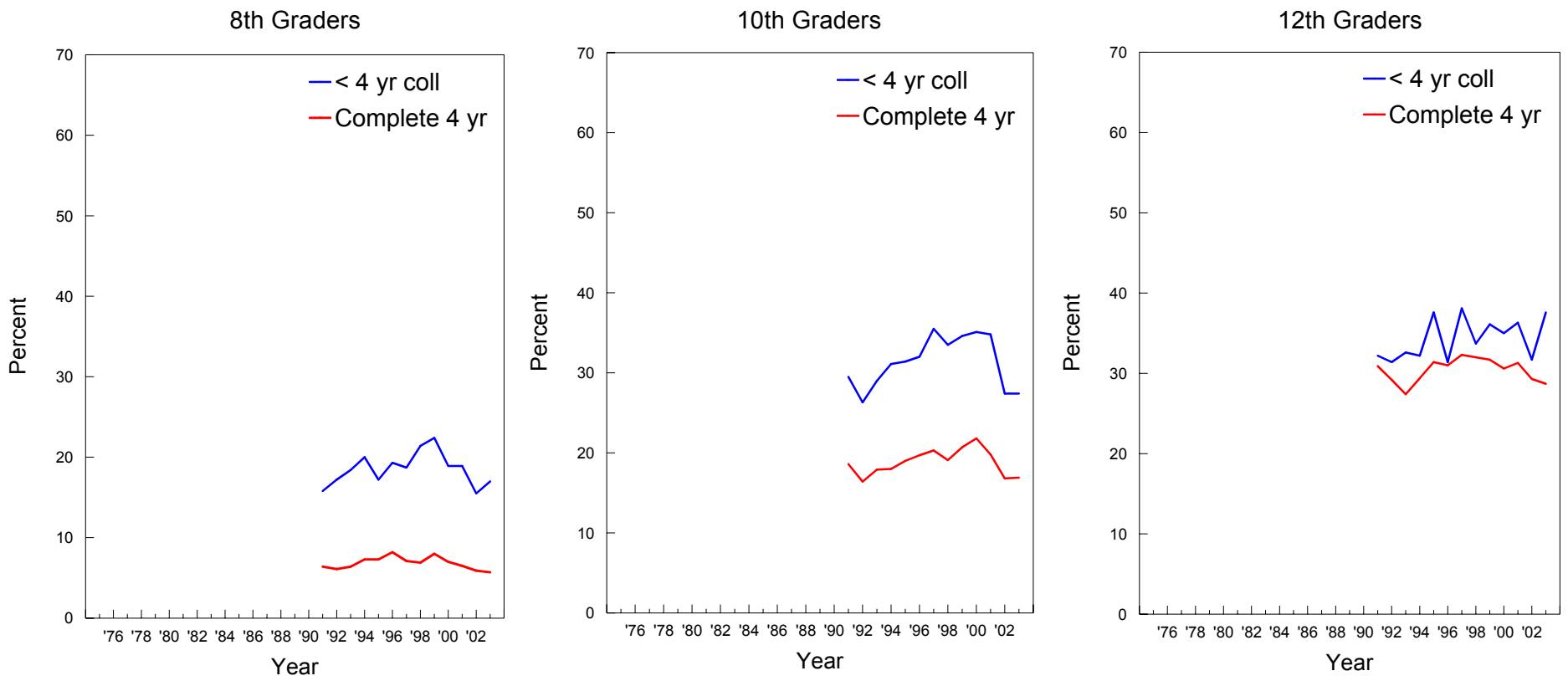
*Beginning in 1993, a revised set of questions on alcohol use was introduced. Refer to corresponding tables for further details.

**These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

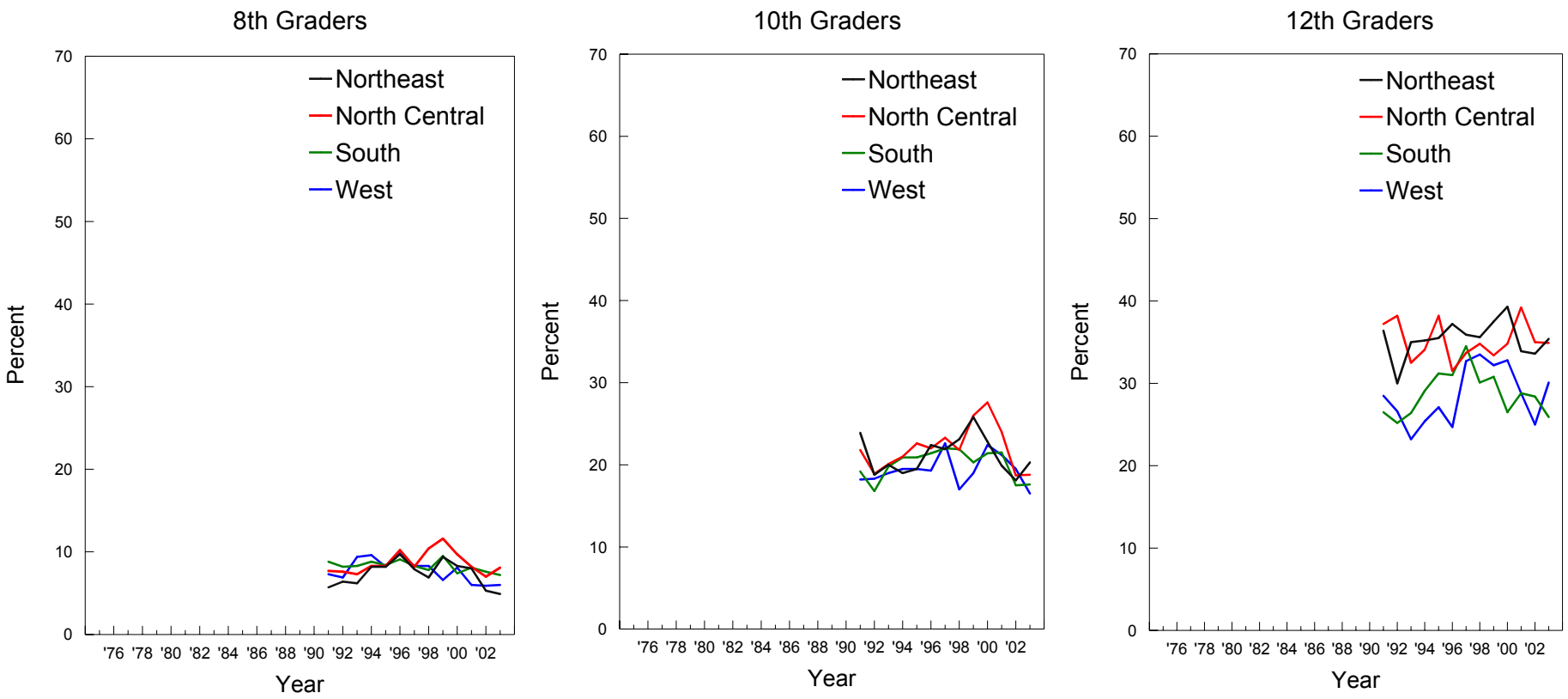
Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Gender



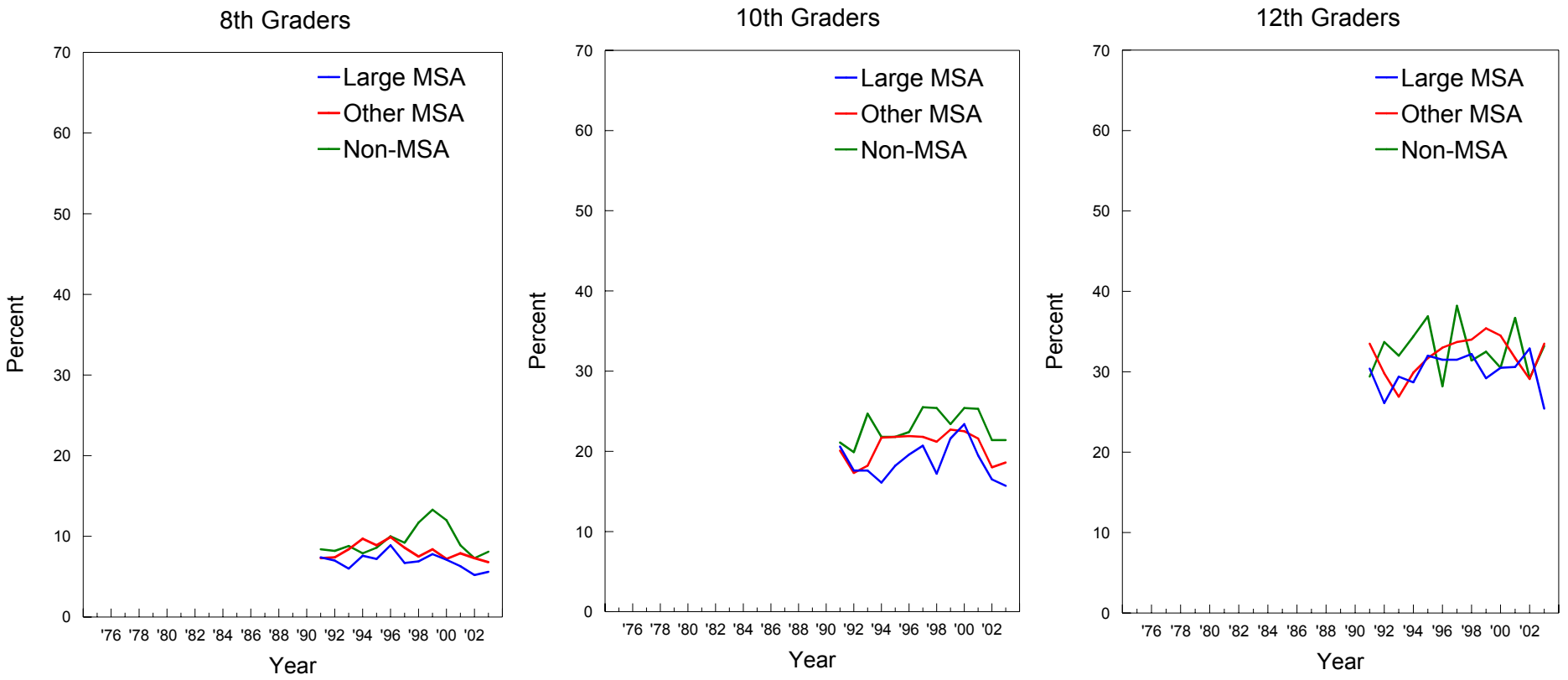
Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by College Plans



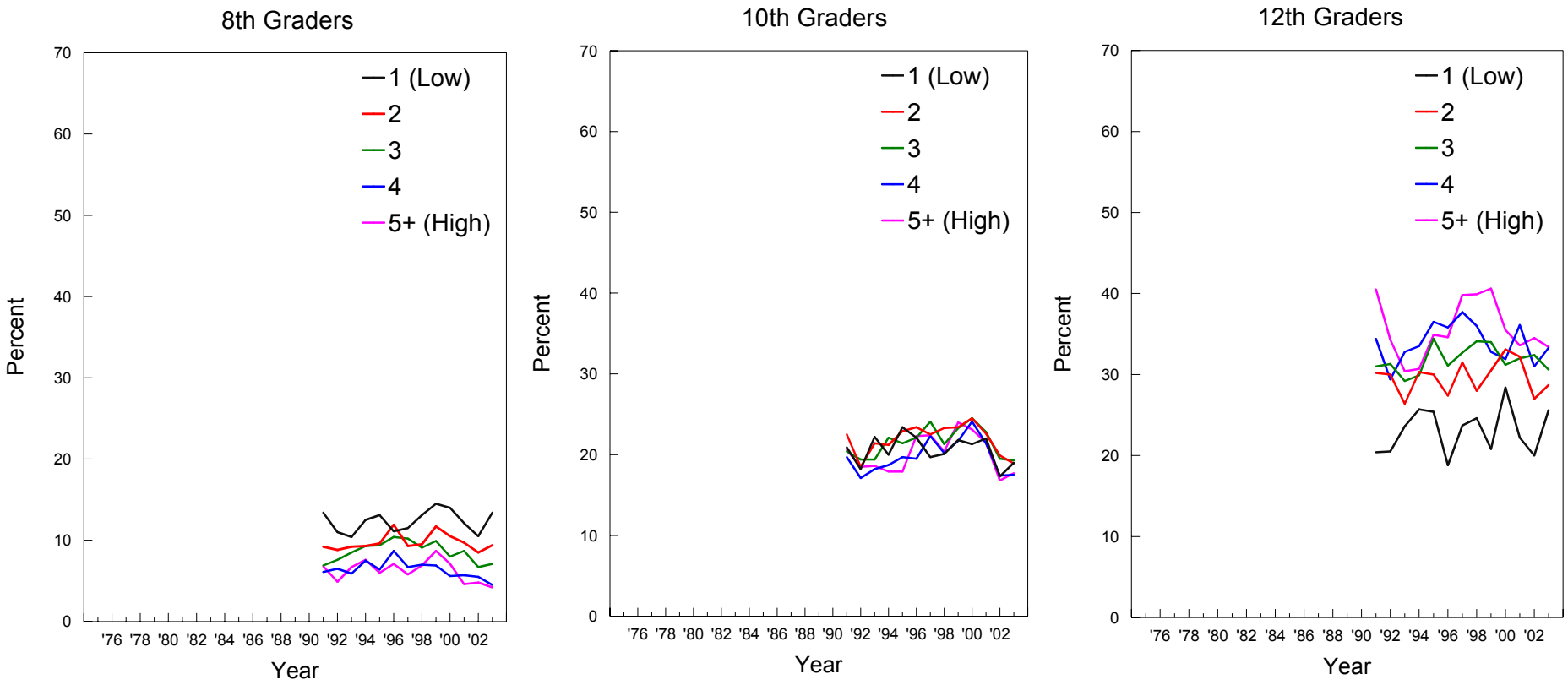
Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Region



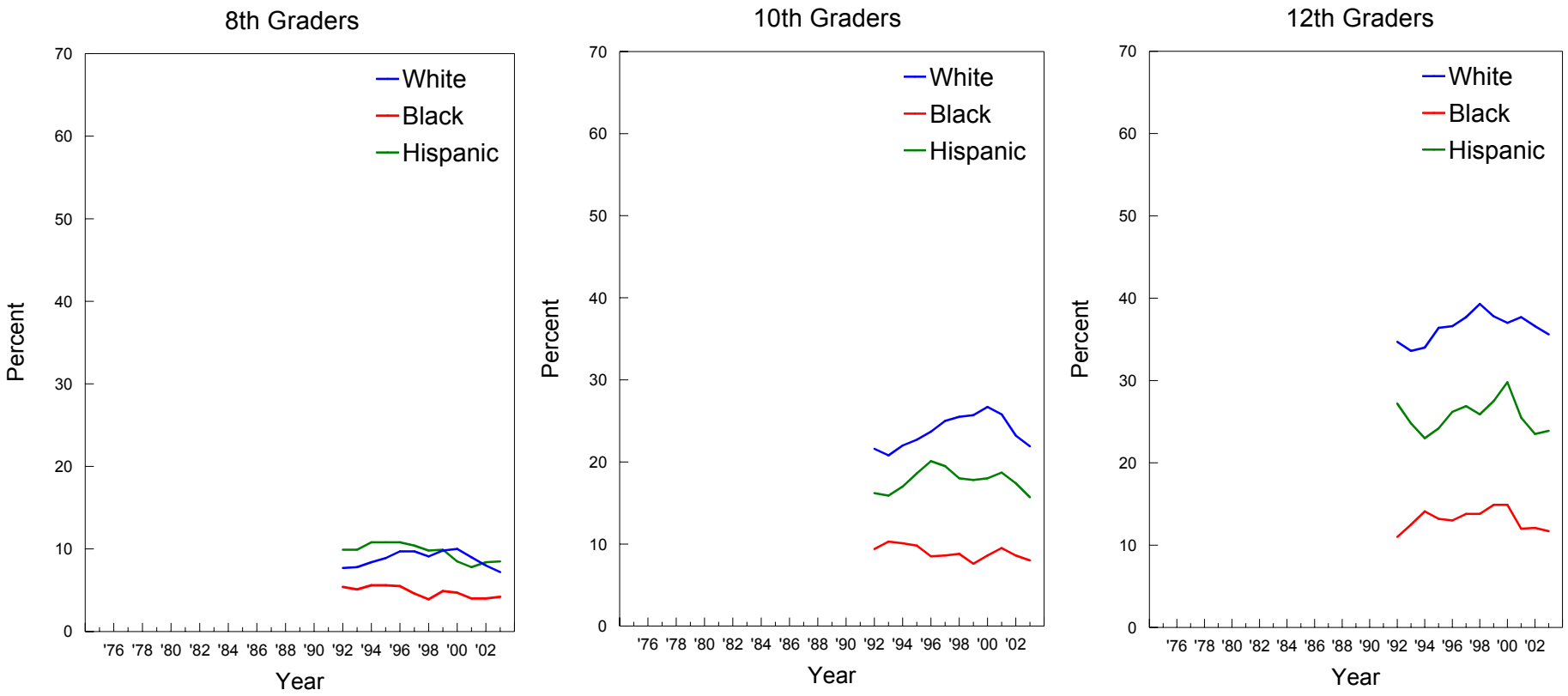
Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Population Density



Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Parents' Average Education

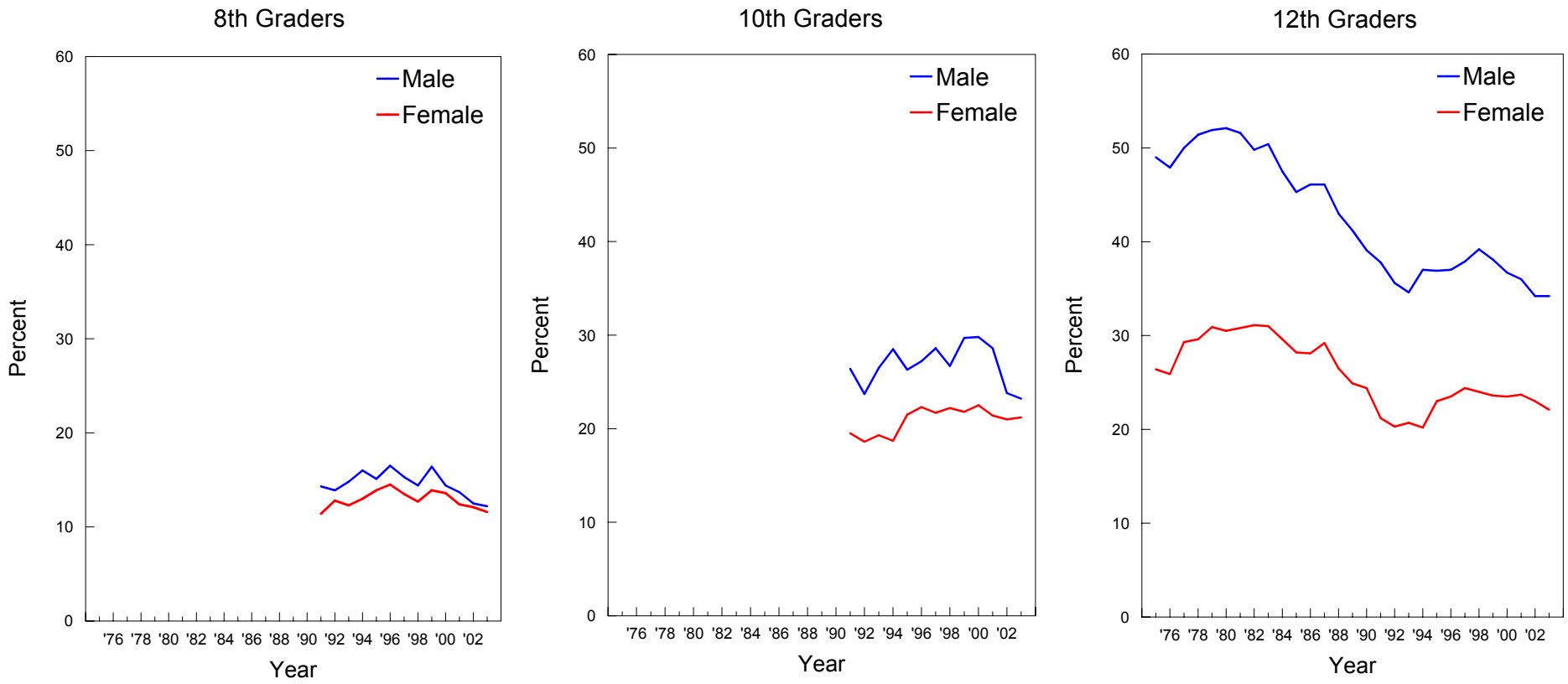


Alcohol: Trends in 30-Day Prevalence of Having Been Drunk by Race/Ethnicity*

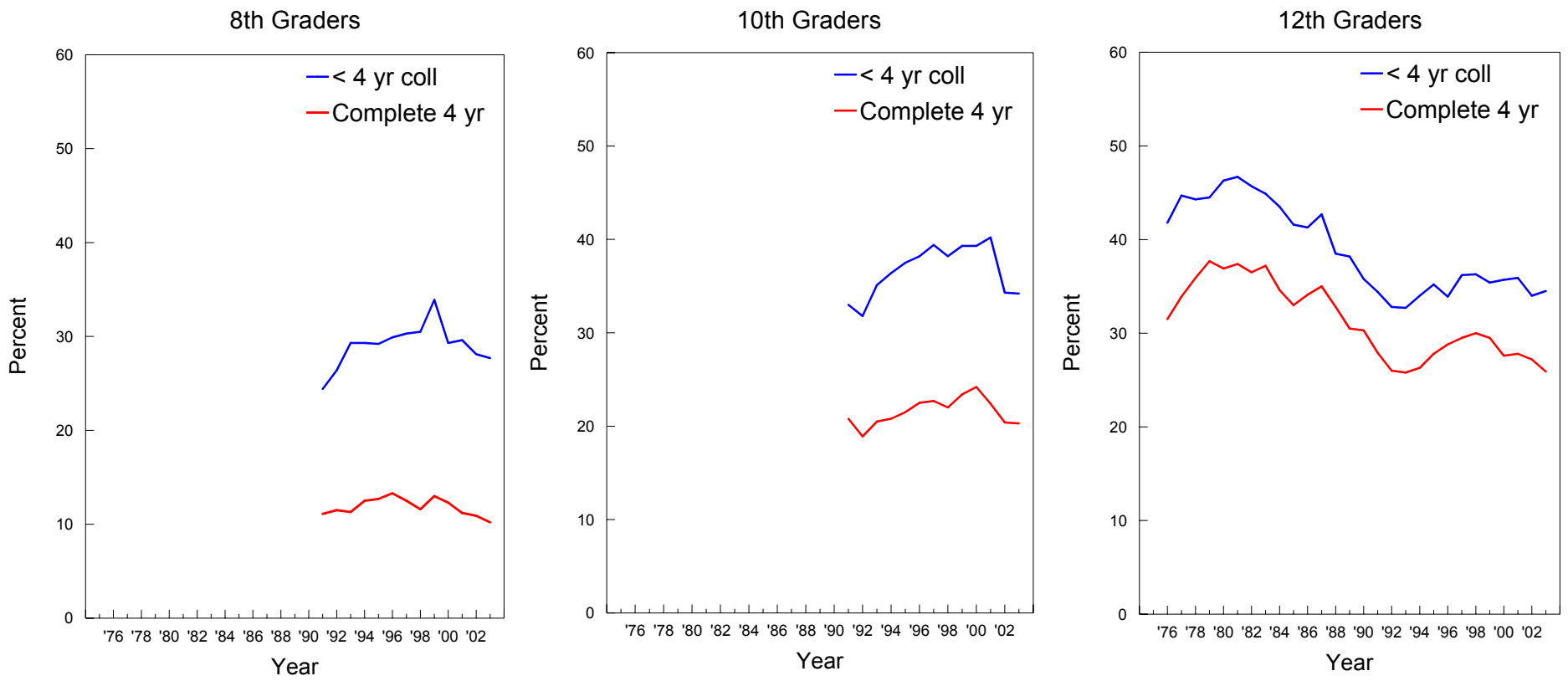


*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year) .

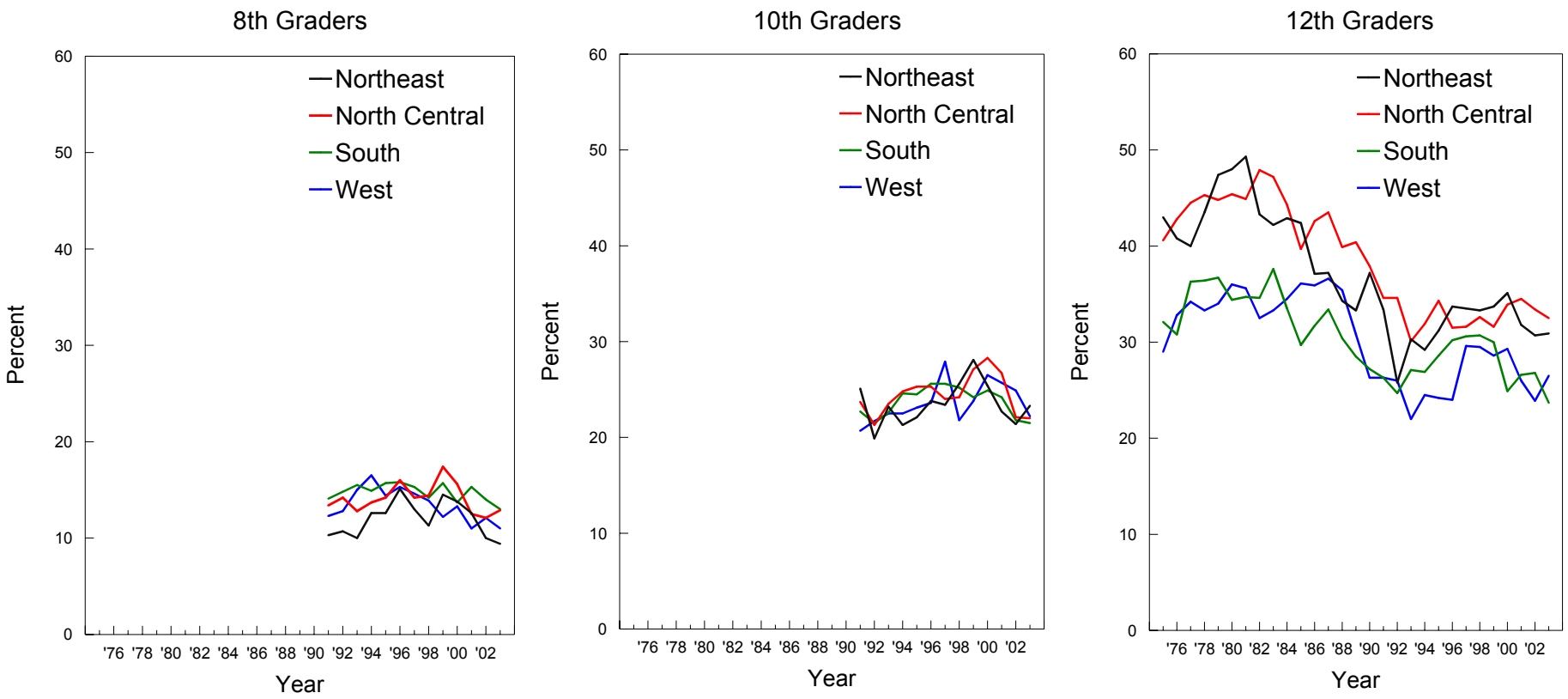
Alcohol: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Gender



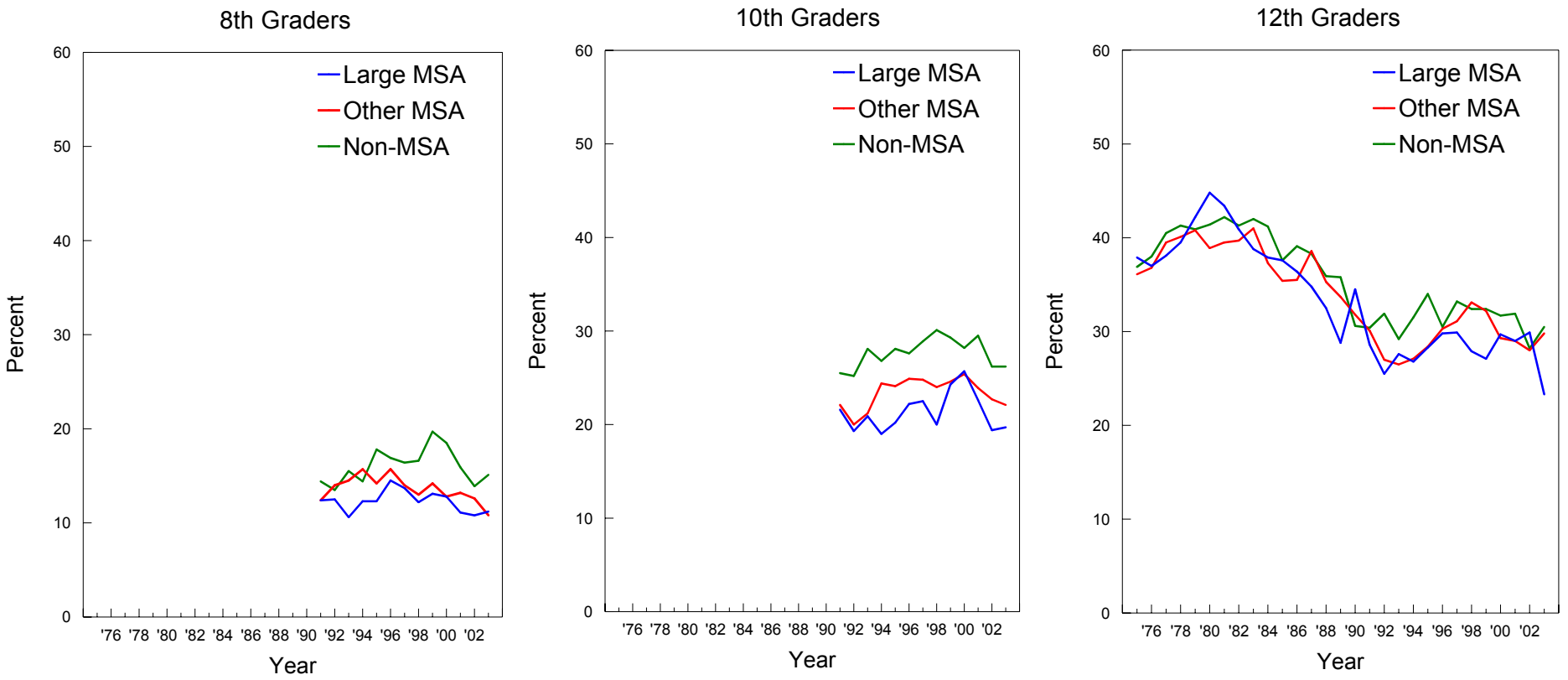
Alcohol: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by College Plans



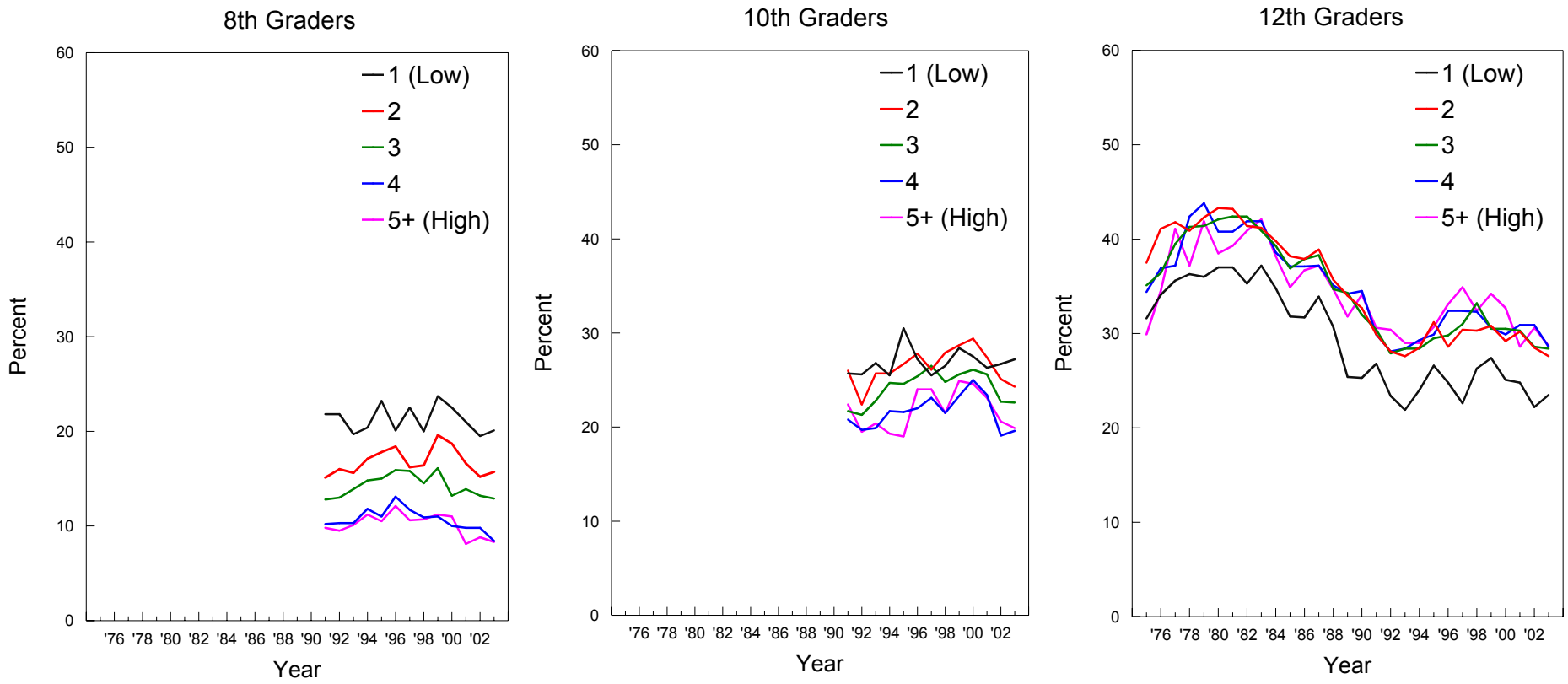
Alcohol: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Region



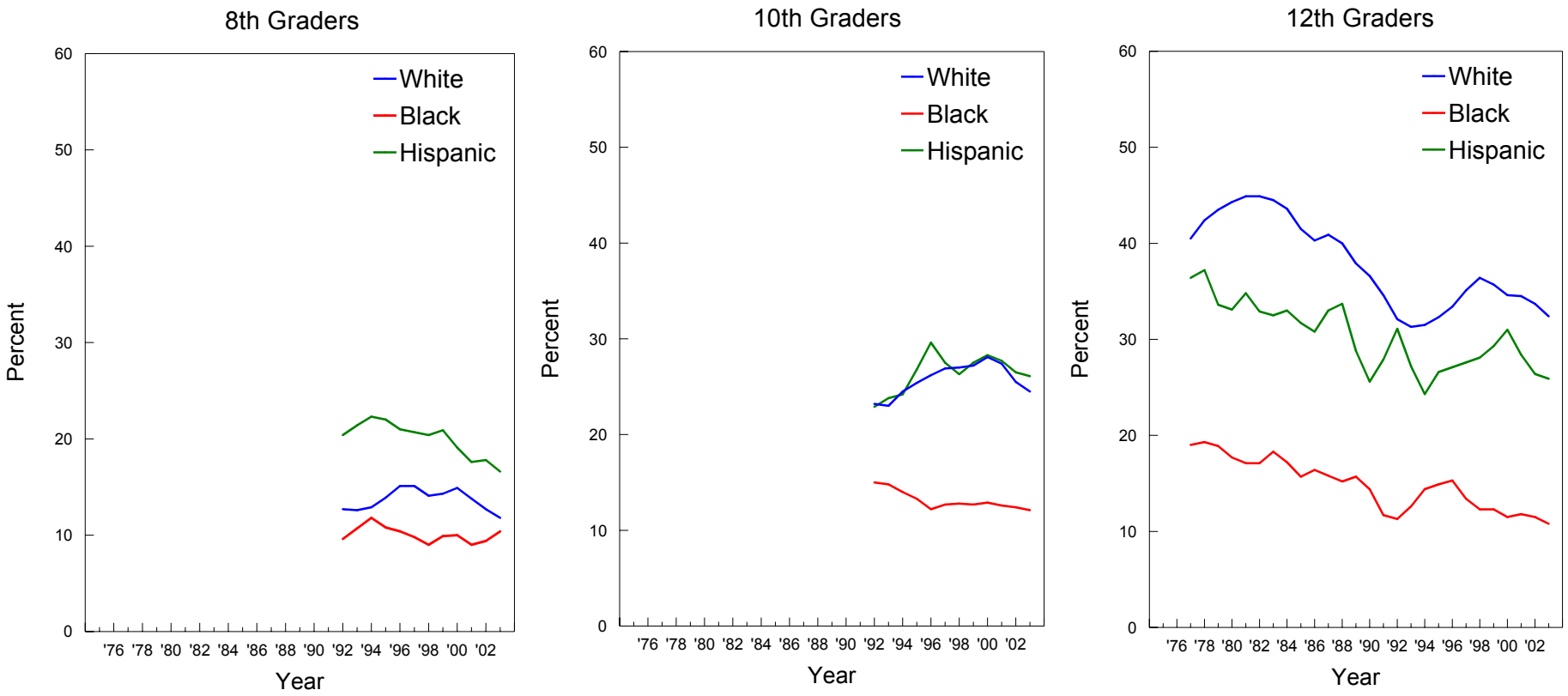
Alcohol: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Population Density



Alcohol: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Parents' Average Education

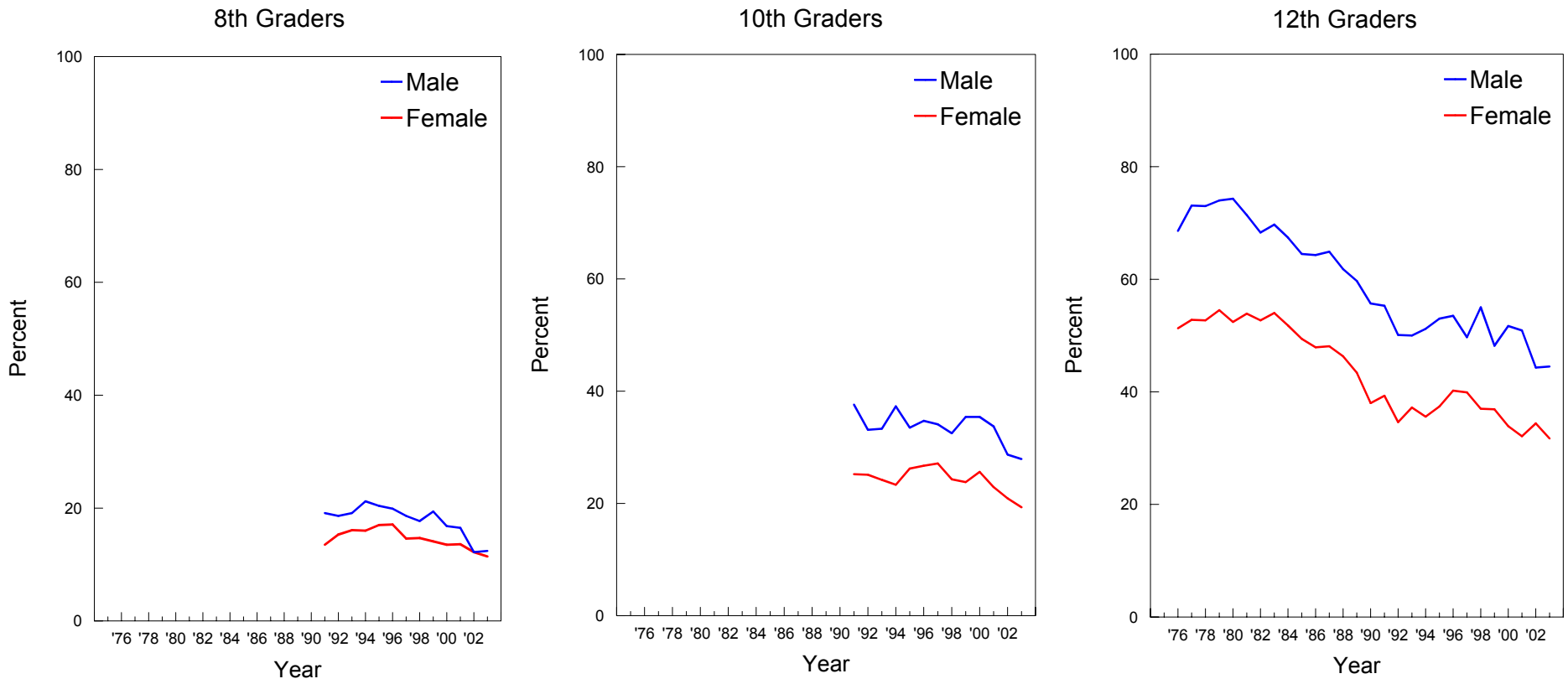


Alcohol: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Race/Ethnicity*

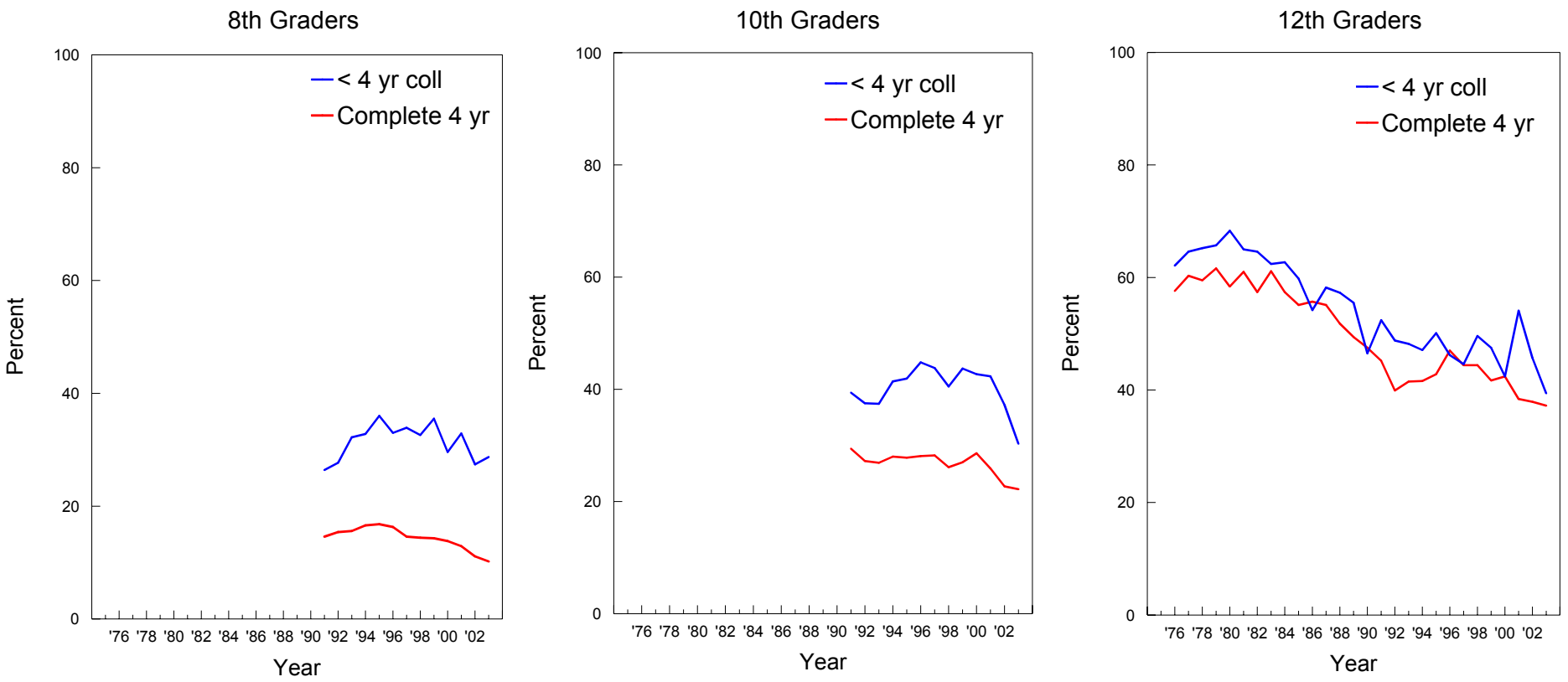


*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

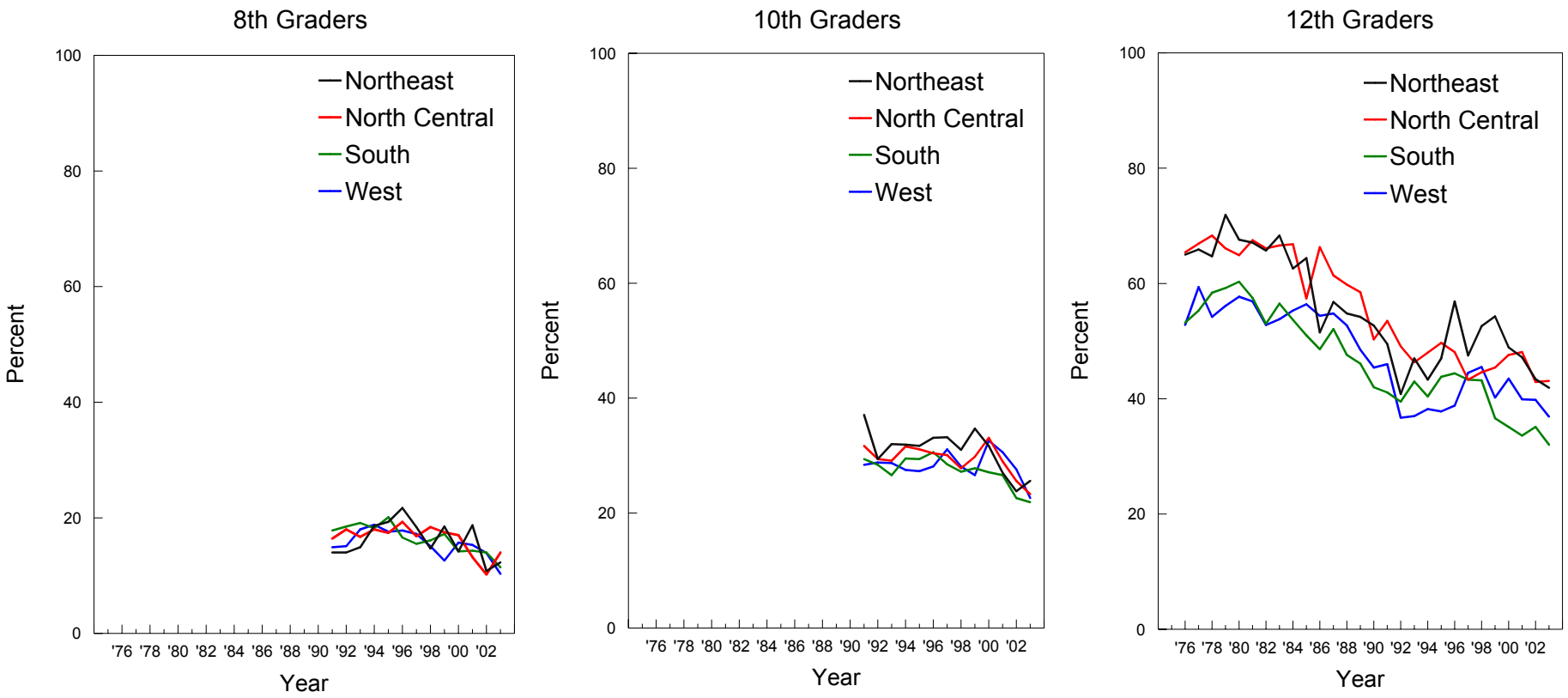
Beer: Trends in 30-Day Prevalence by Gender



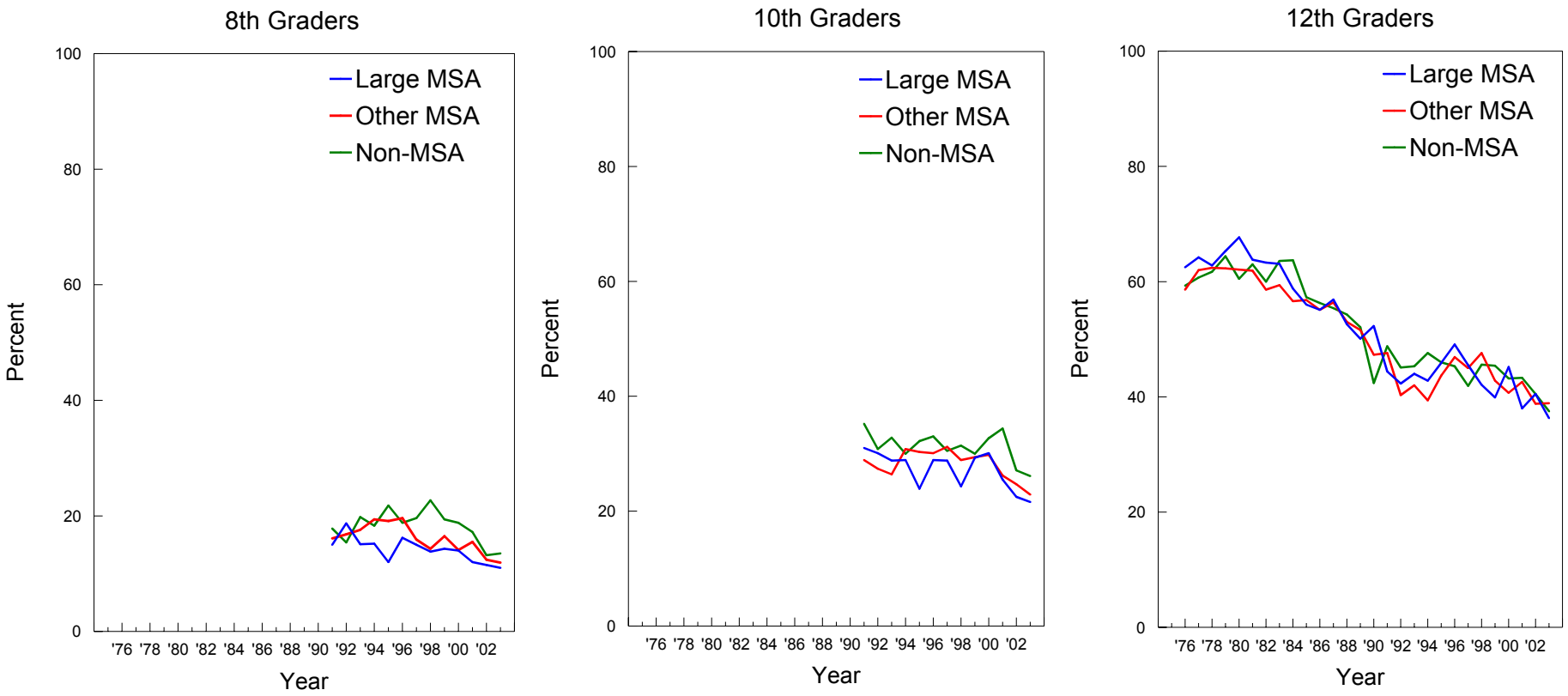
Beer: Trends in 30-Day Prevalence by College Plans



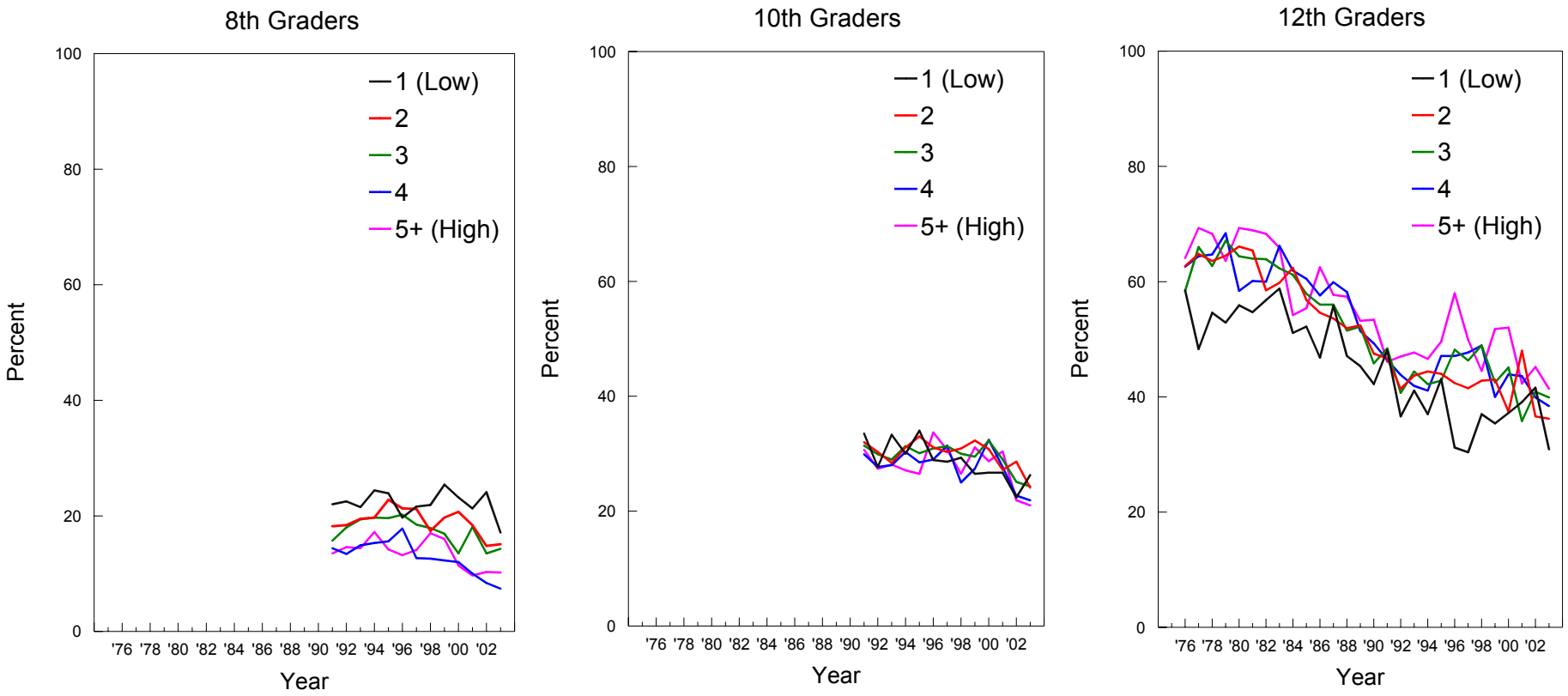
Beer: Trends in 30-Day Prevalence by Region



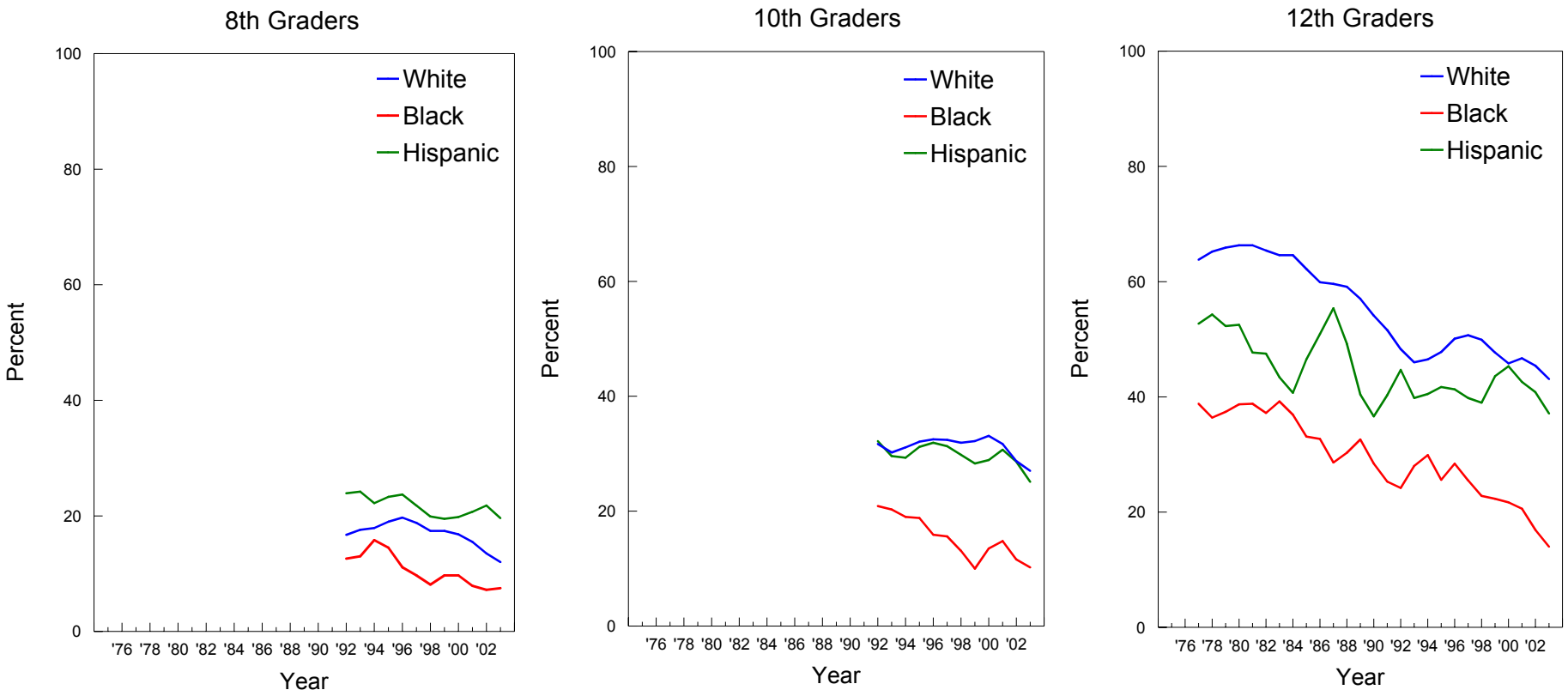
Beer: Trends in 30-Day Prevalence by Population Density



Beer: Trends in 30-Day Prevalence by Parents' Average Education

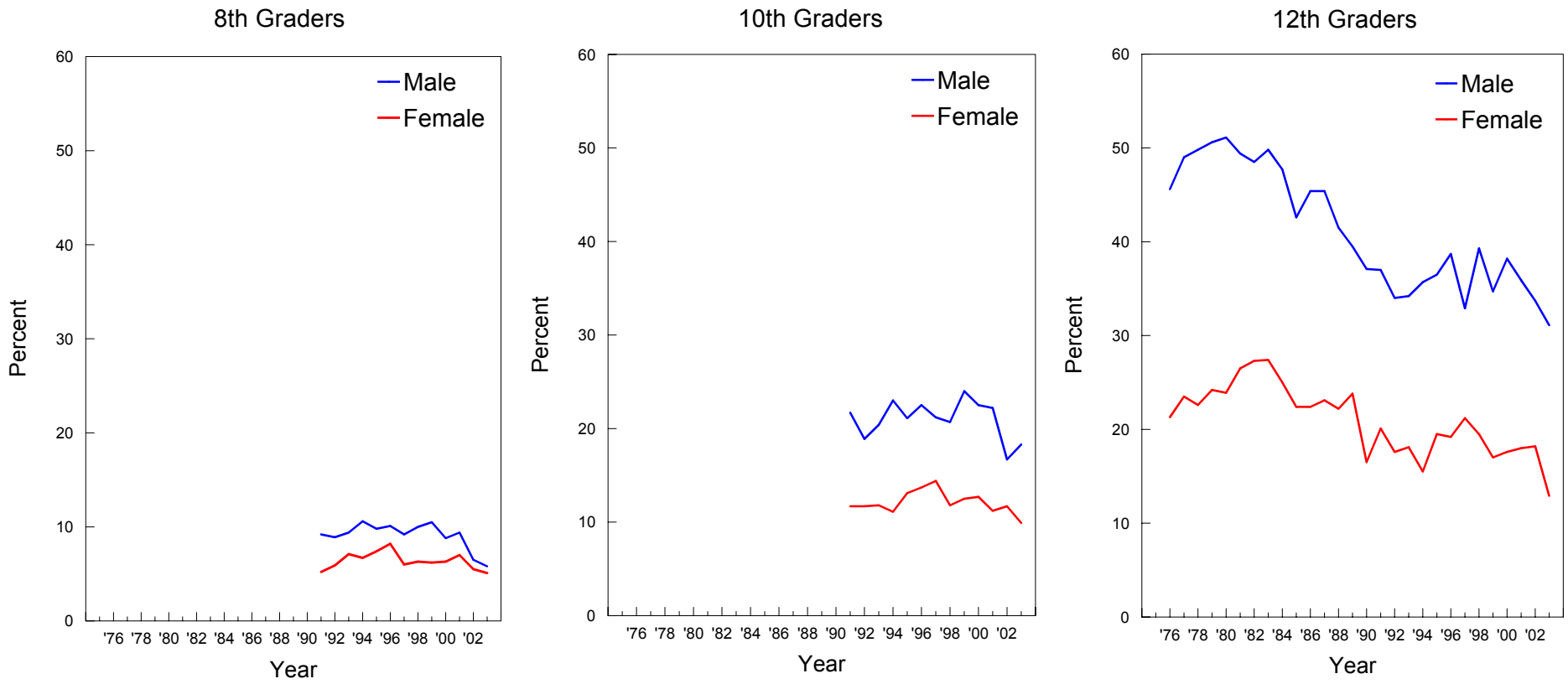


Beer: Trends in 30-Day Prevalence by Race/Ethnicity*

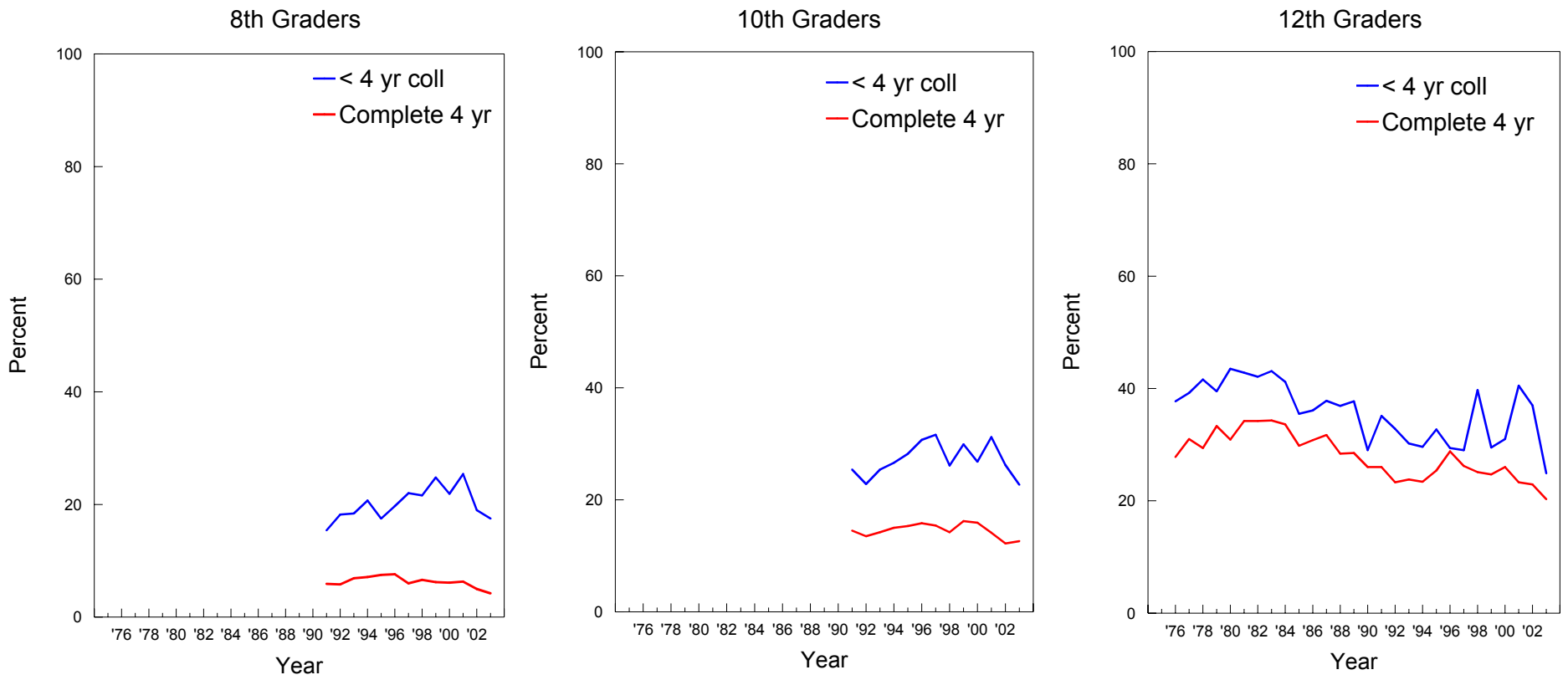


*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

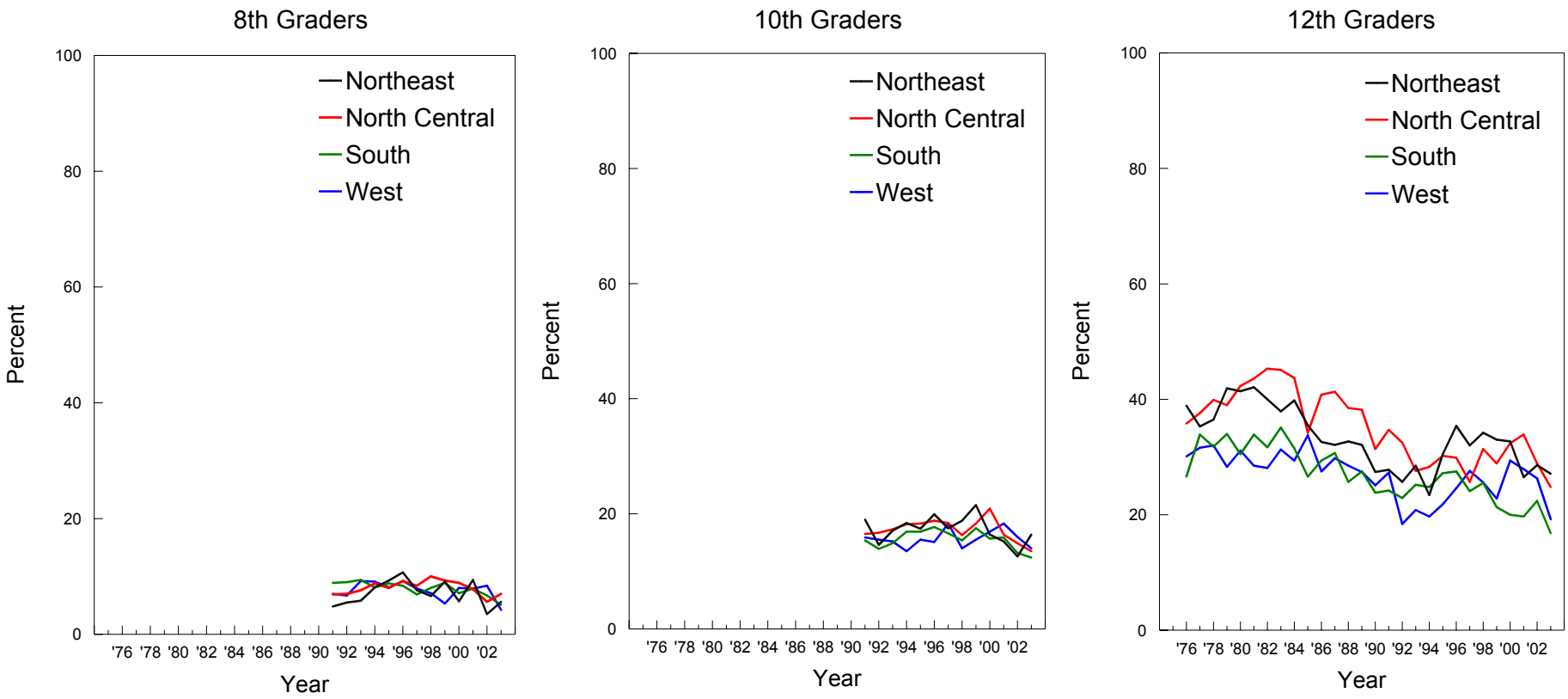
Beer: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Gender



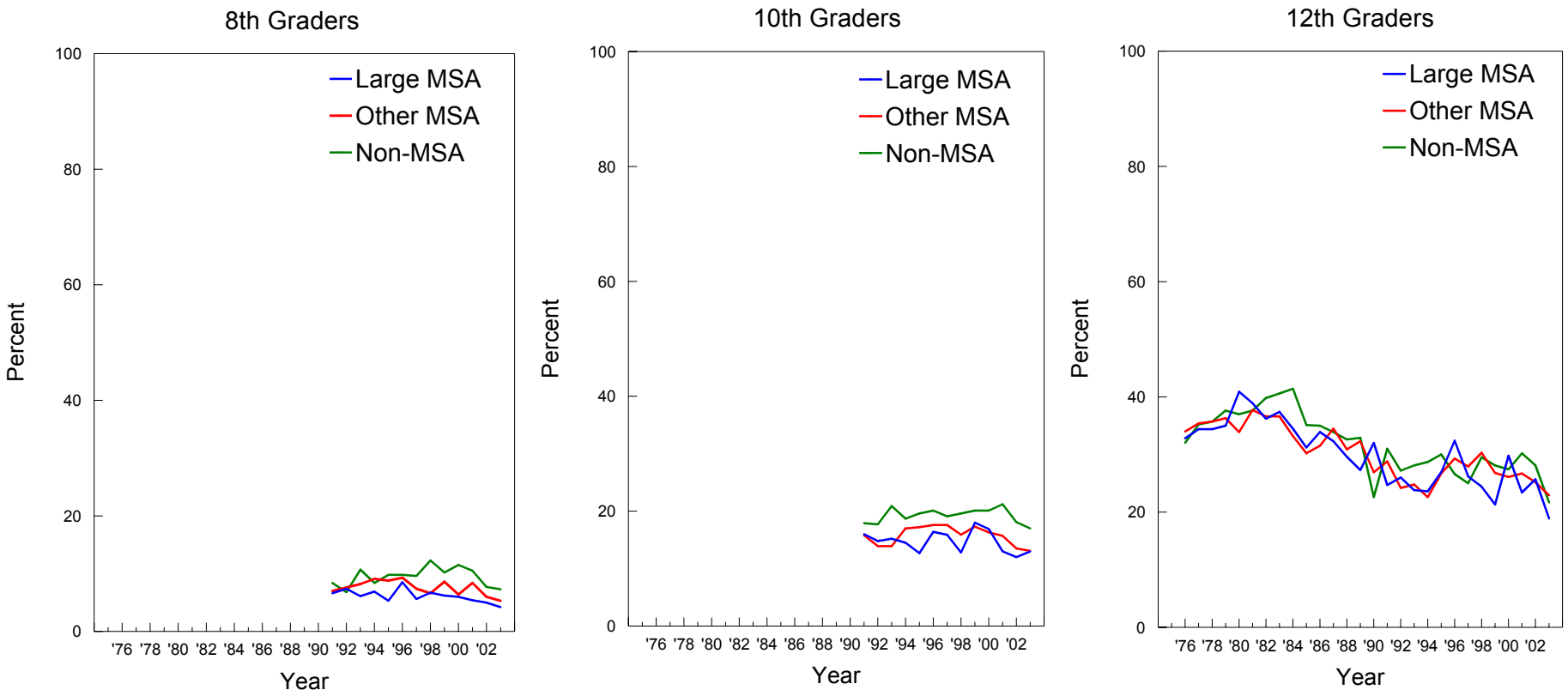
Beer: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by College Plans



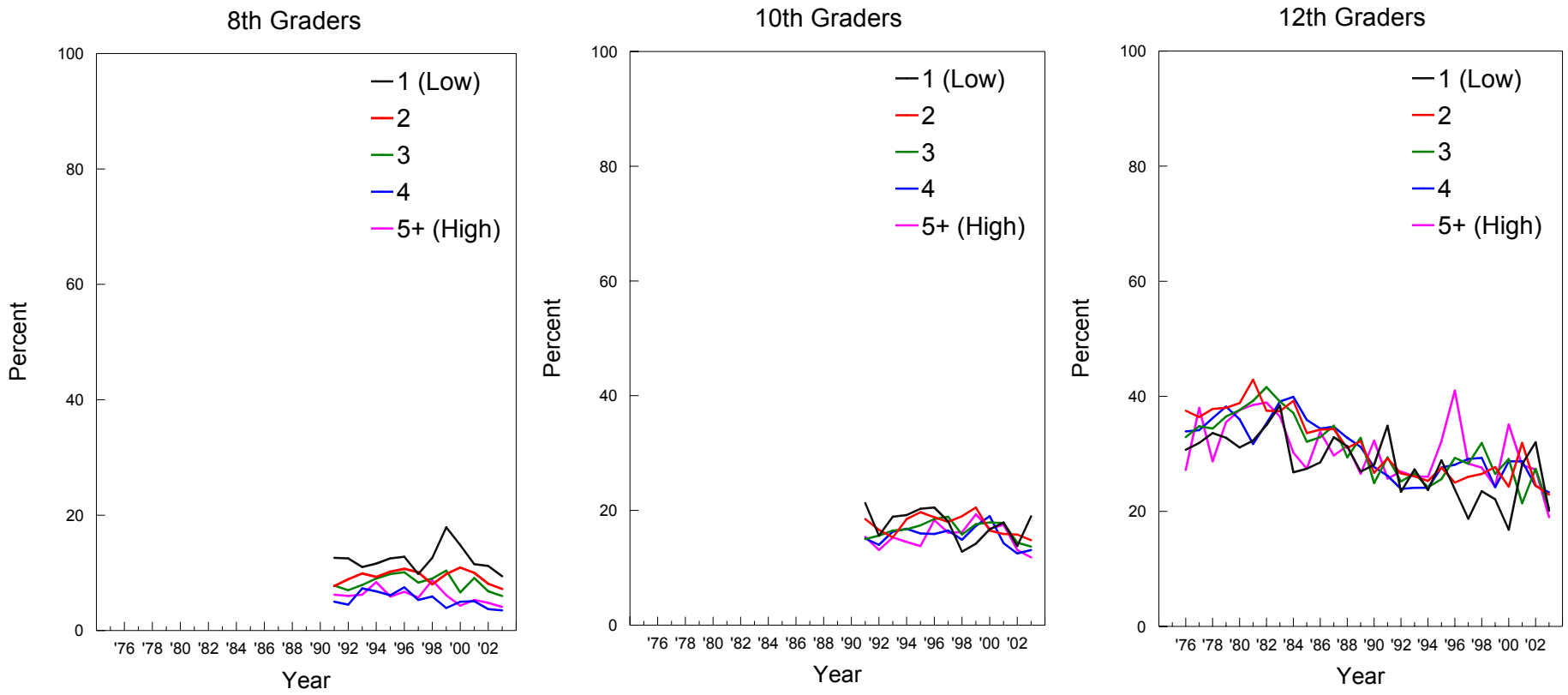
Beer: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Region



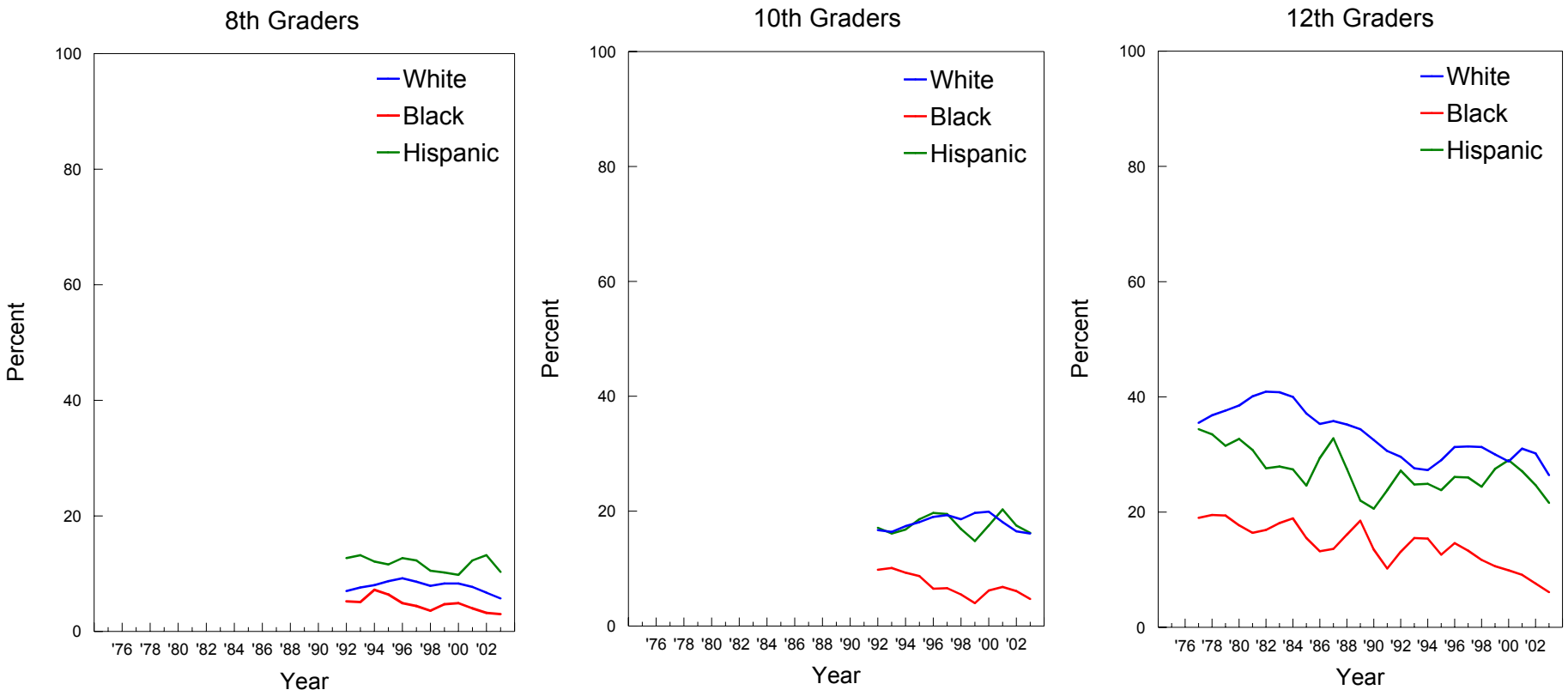
Beer: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Population Density



Beer: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Parents' Average Education

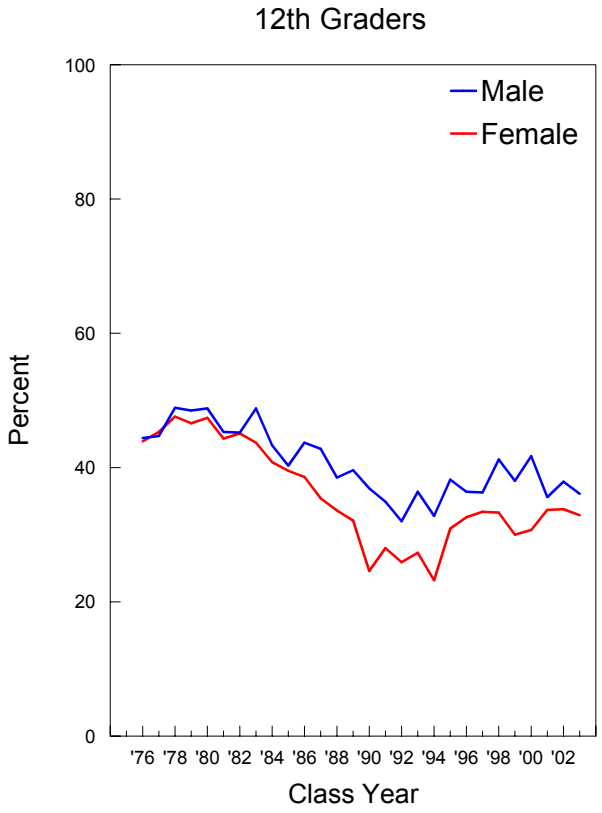


Beer: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Race/Ethnicity*

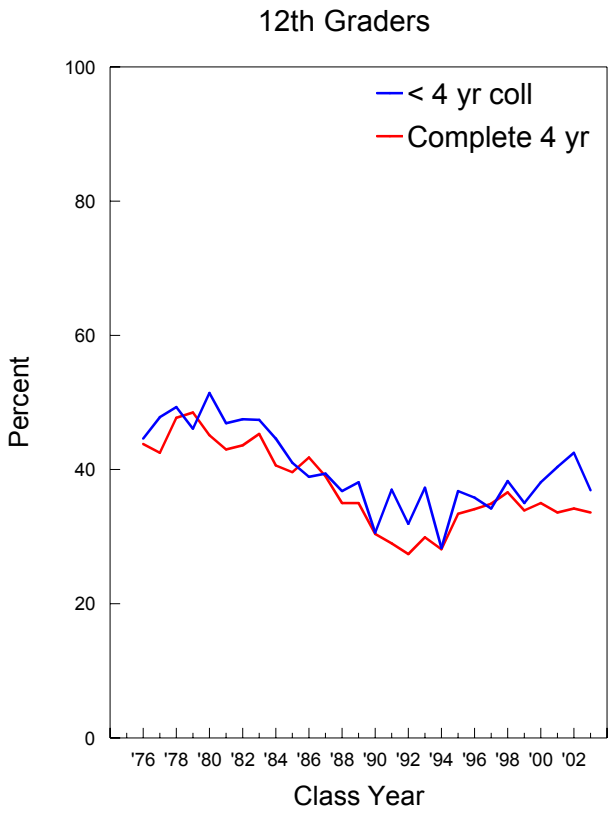


*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

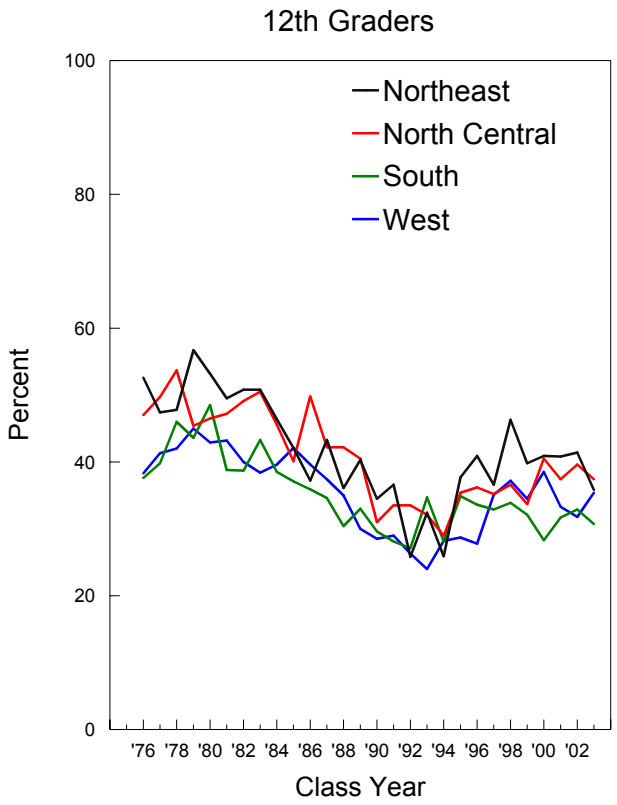
Liquor: Trends in 30-Day Prevalence by Gender



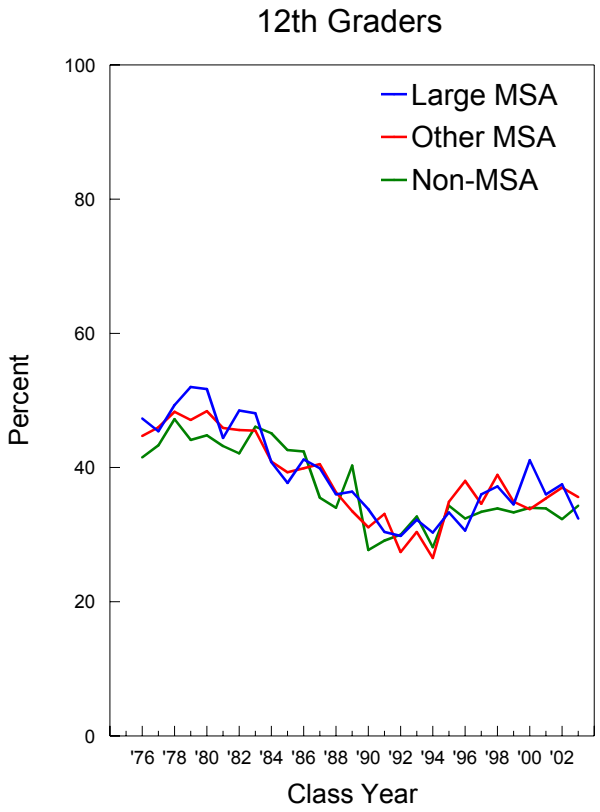
Liquor: Trends in 30-Day Prevalence by College Plans



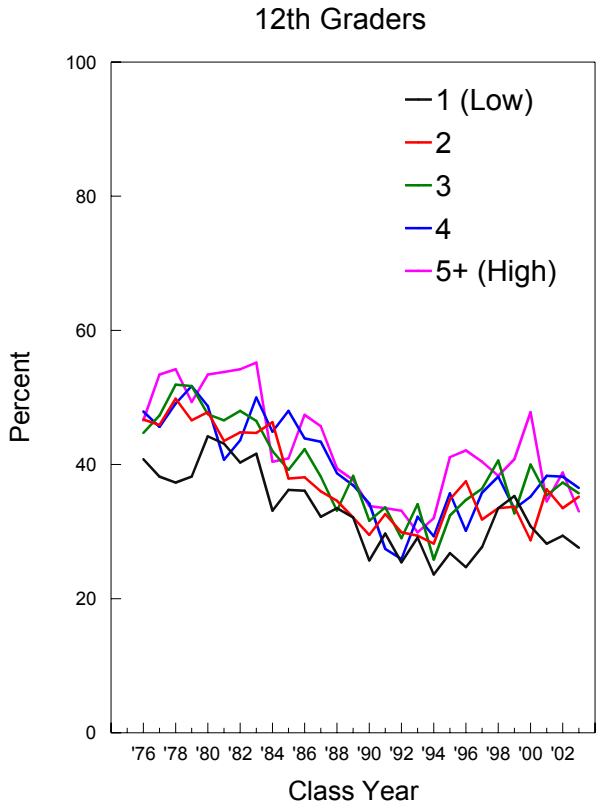
Liquor: Trends in 30-Day Prevalence by Region



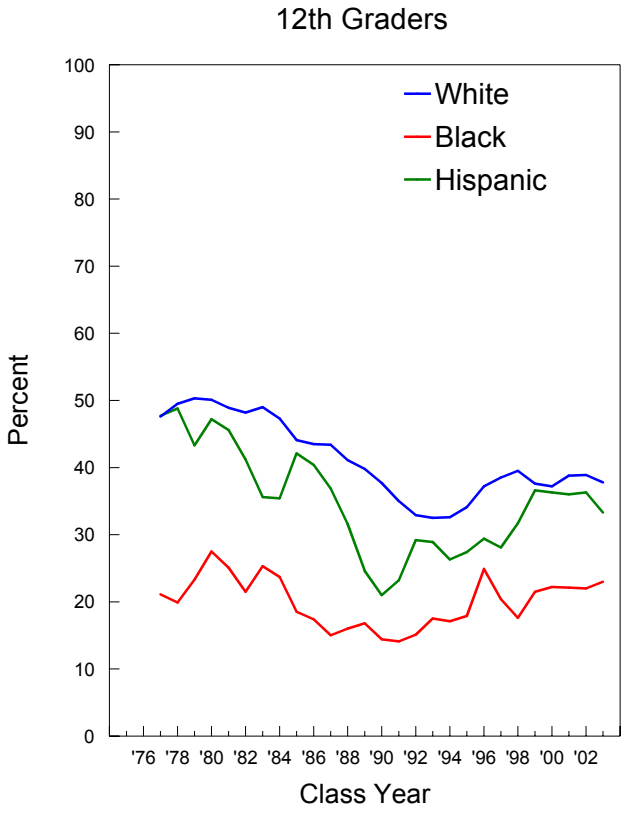
Liquor: Trends in 30-Day Prevalence by Population Density



Liquor: Trends in 30-Day Prevalence by Parents' Average Education

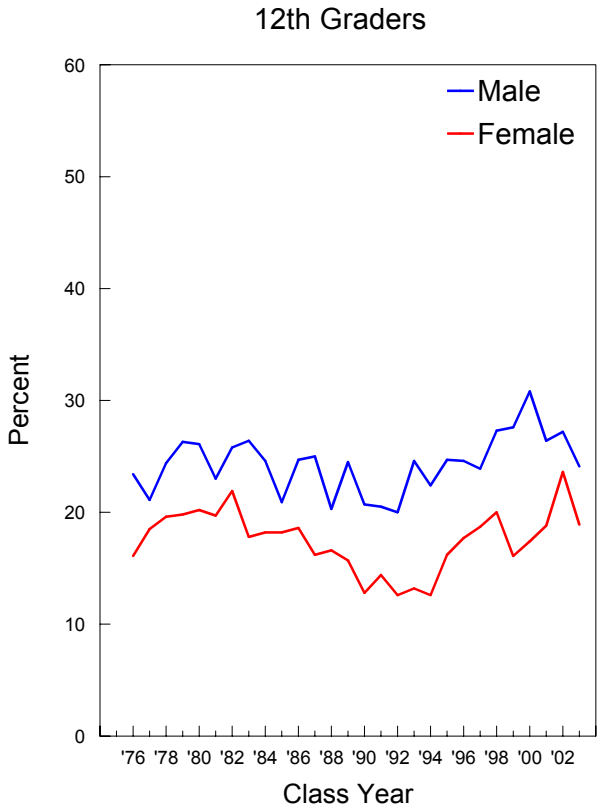


Liquor: Trends in 30-Day Prevalence by Race/Ethnicity*

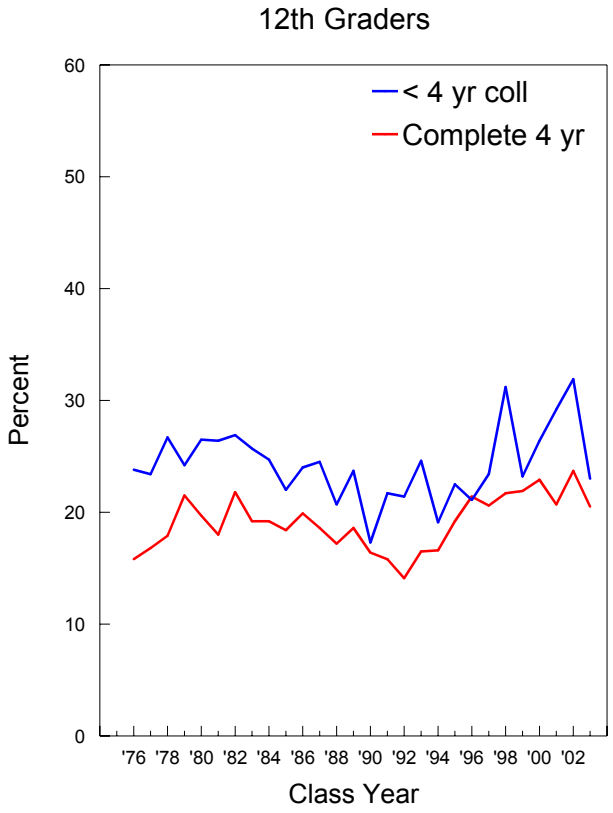


*These are two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

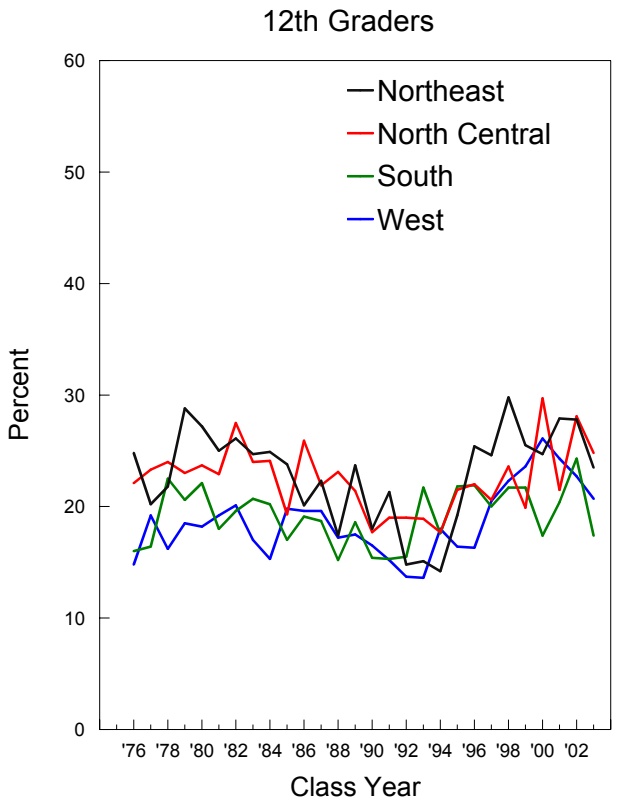
Liquor: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Gender



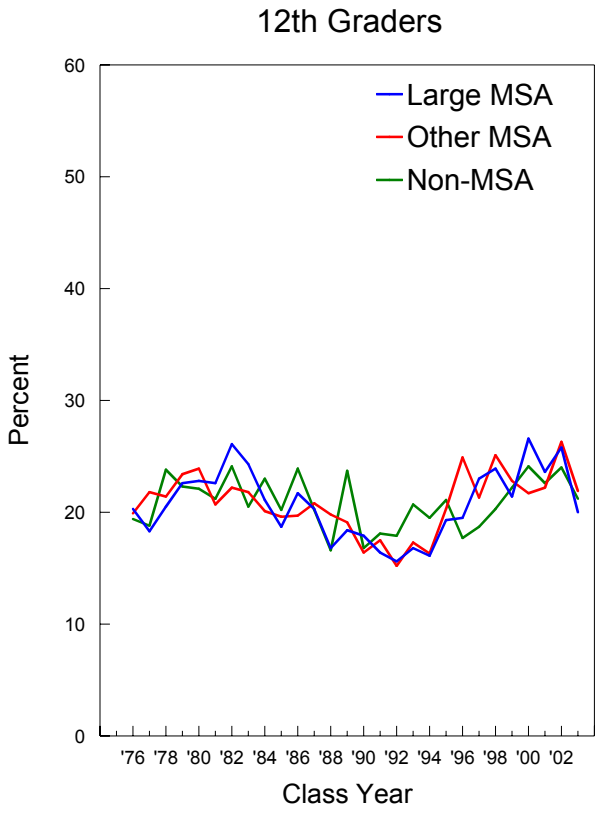
Liquor: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by College Plans



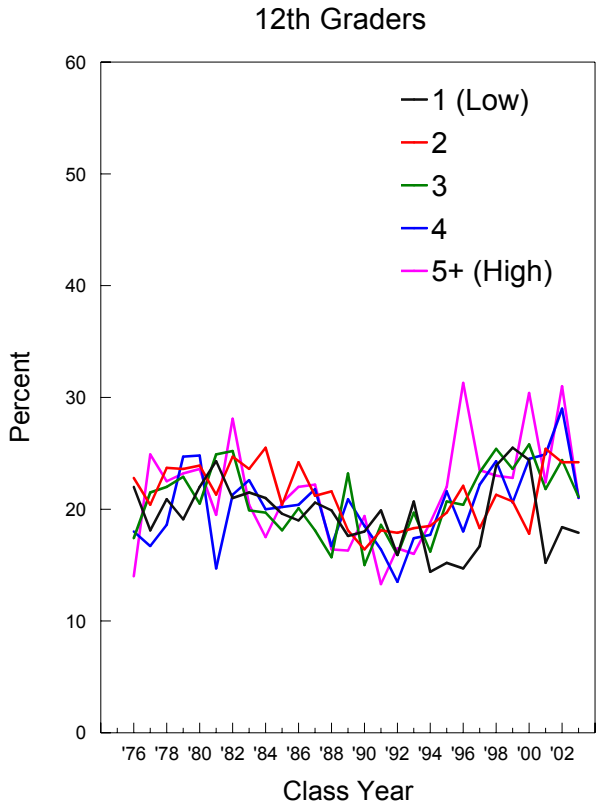
Liquor: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Region



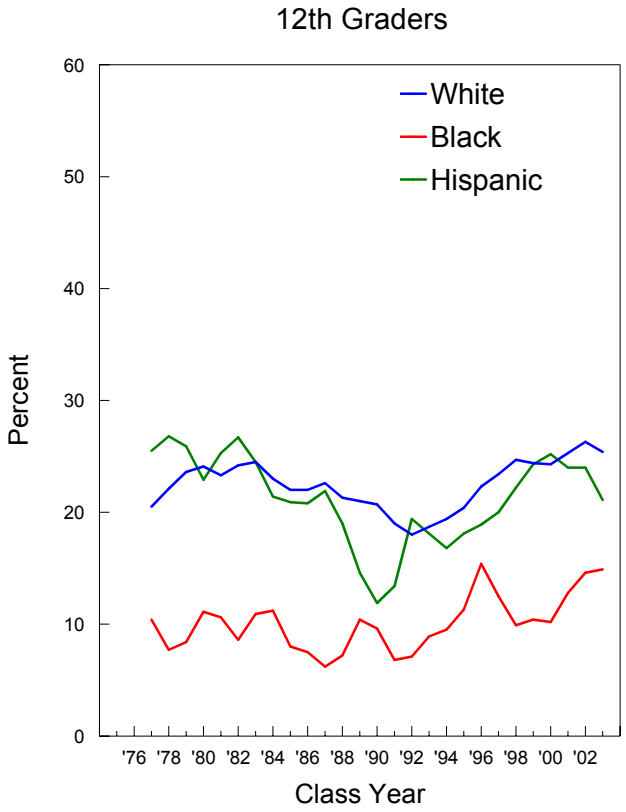
Liquor: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Population Density



Liquor: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Parents' Average Education



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



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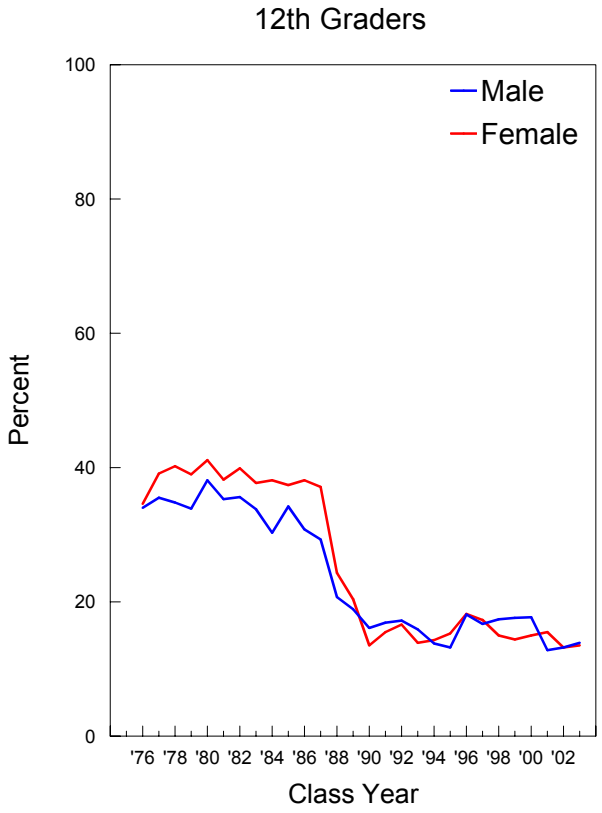
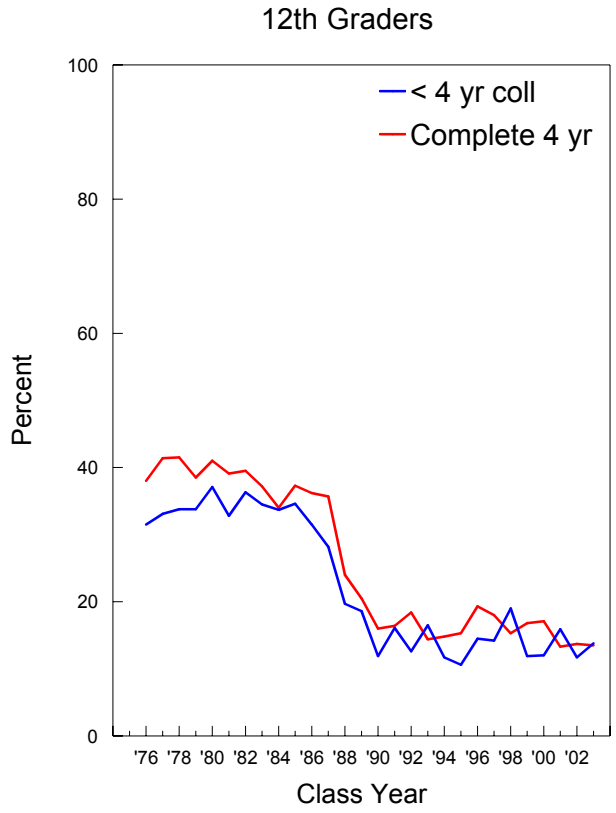
Wine:* Trends in 30-Day Prevalence by Gender



*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.

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



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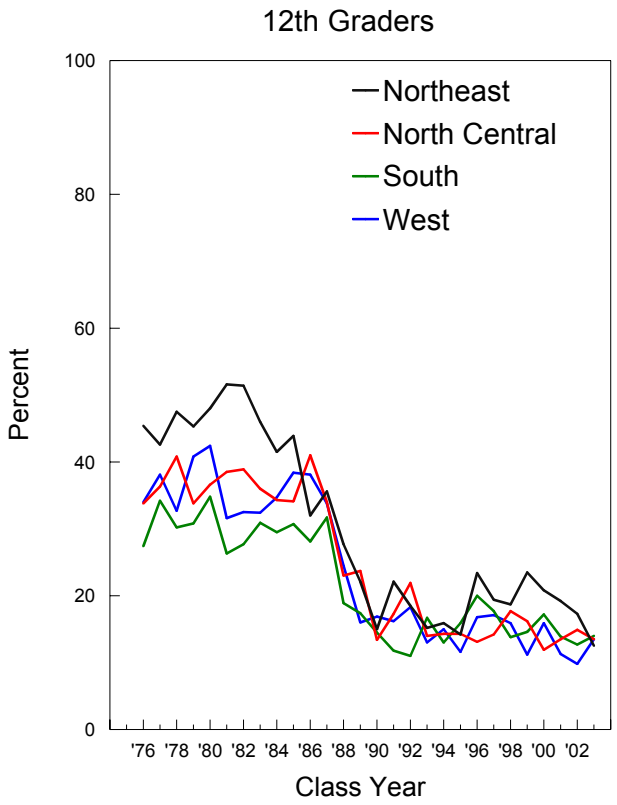
Wine:* Trends in 30-Day Prevalence by Region



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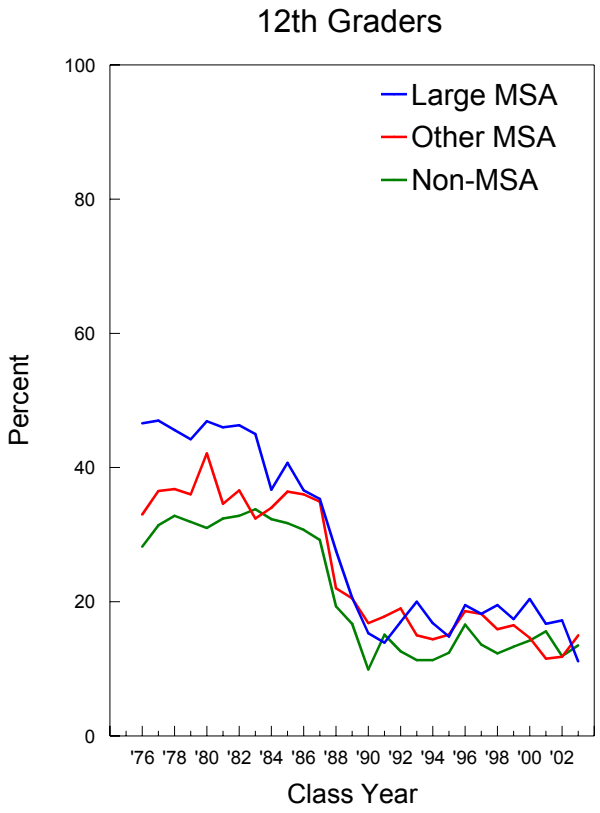
Wine:* Trends in 30-Day Prevalence by Population Density



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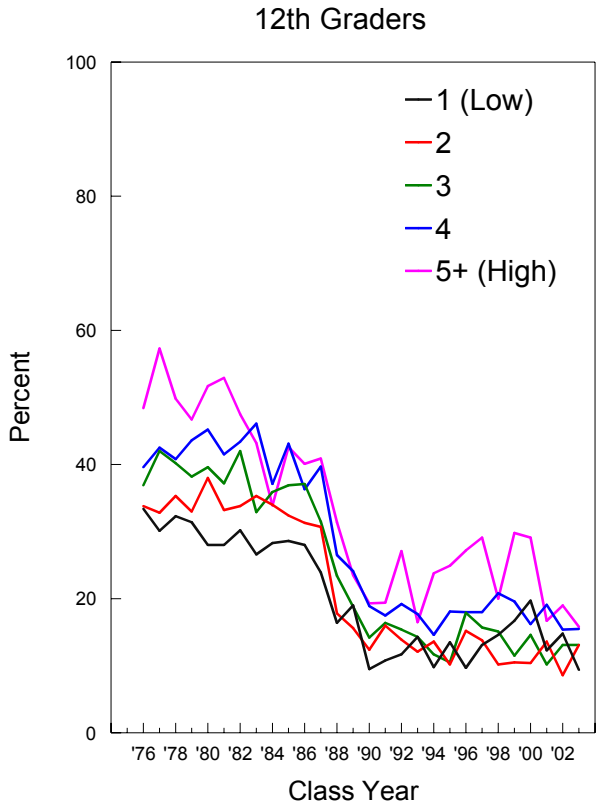
Wine:* Trends in 30-Day Prevalence by Parents' Average Education



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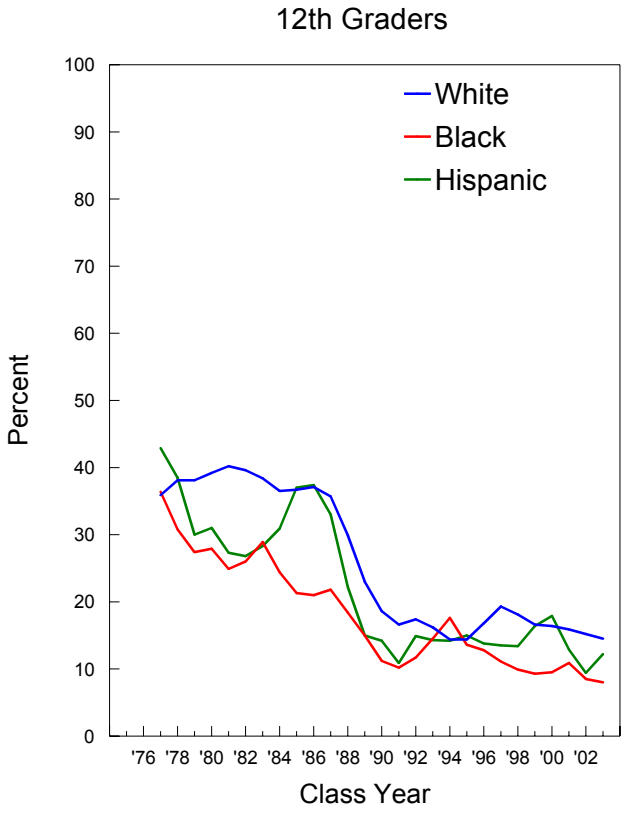
Wine:* Trends in 30-Day Prevalence by Race/Ethnicity**



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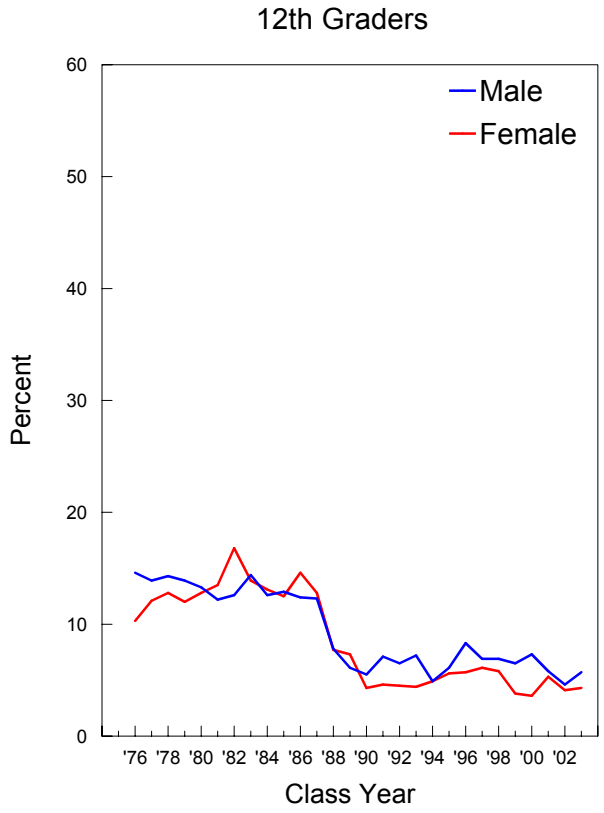
Wine:* Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Gender



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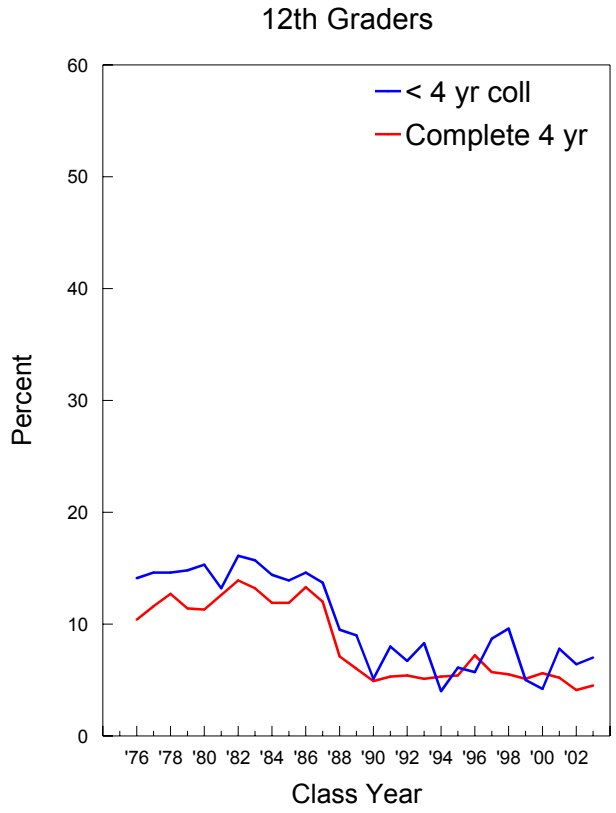
Wine:* Trends in Two-Week Prevalence of 5 or More Drinks in a Row by College Plans



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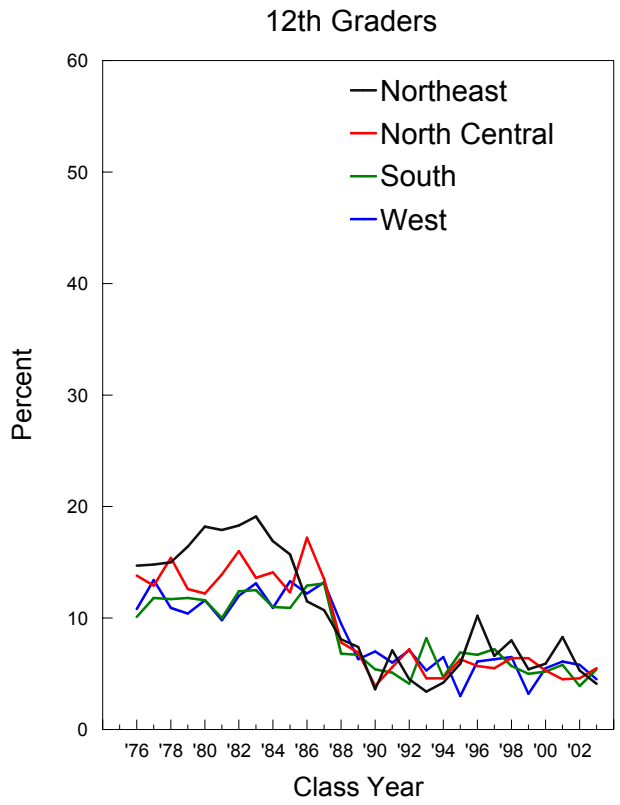
Wine:* Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Region



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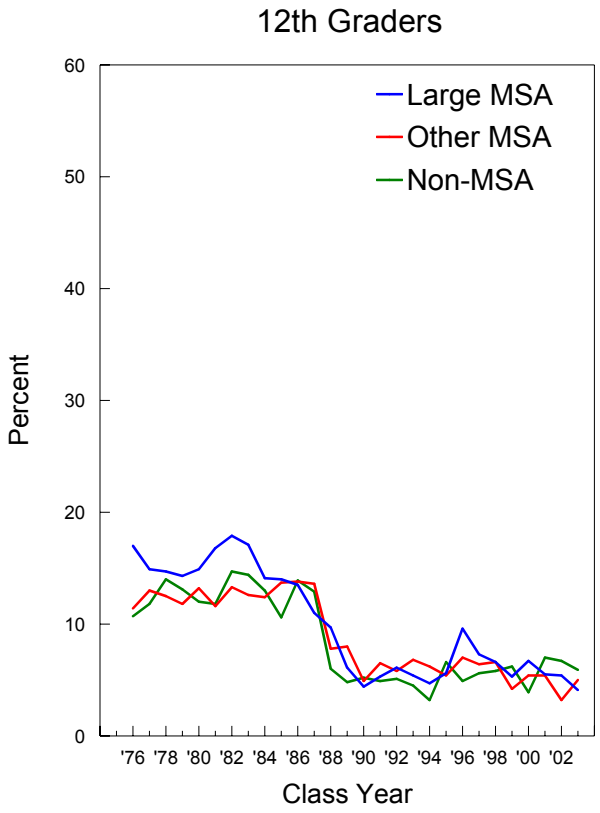
Wine:* Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Population Density



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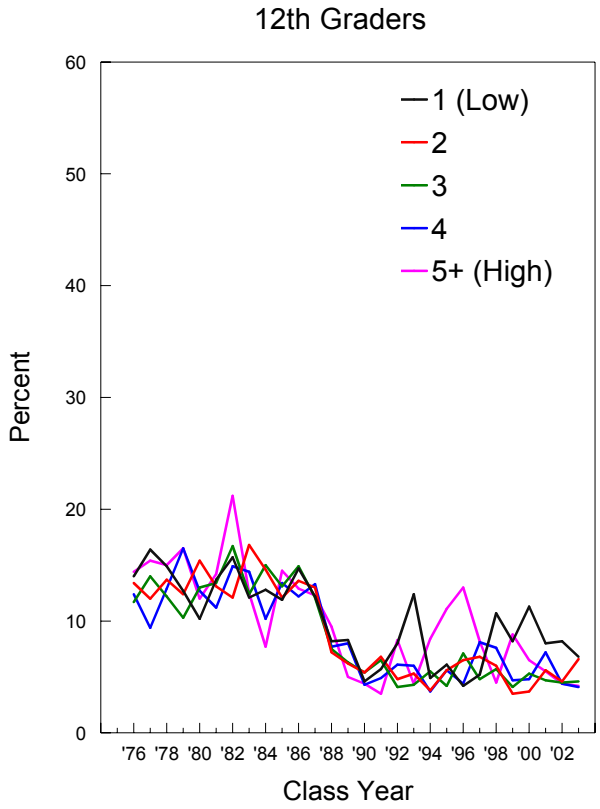
Wine:* Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Parents' Average Education



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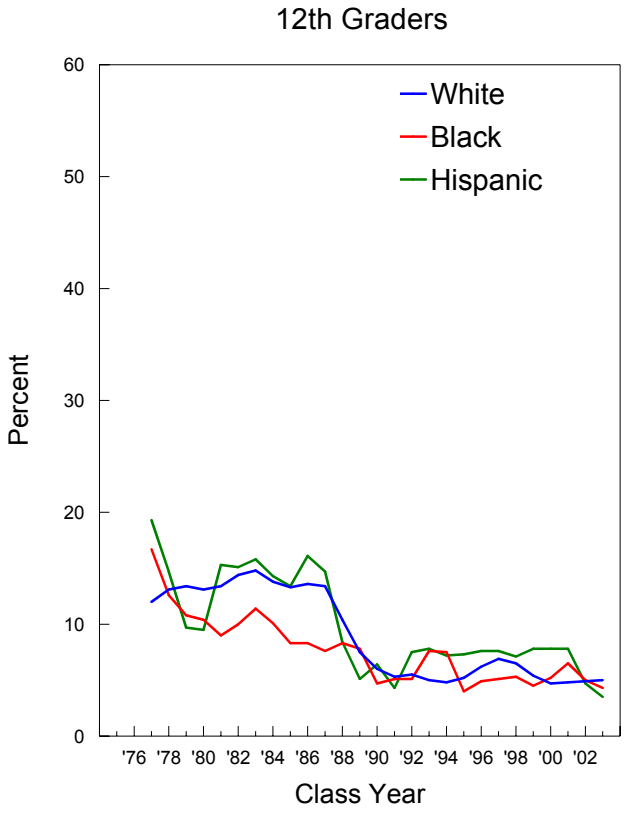
Wine:* Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Race/Ethnicity**



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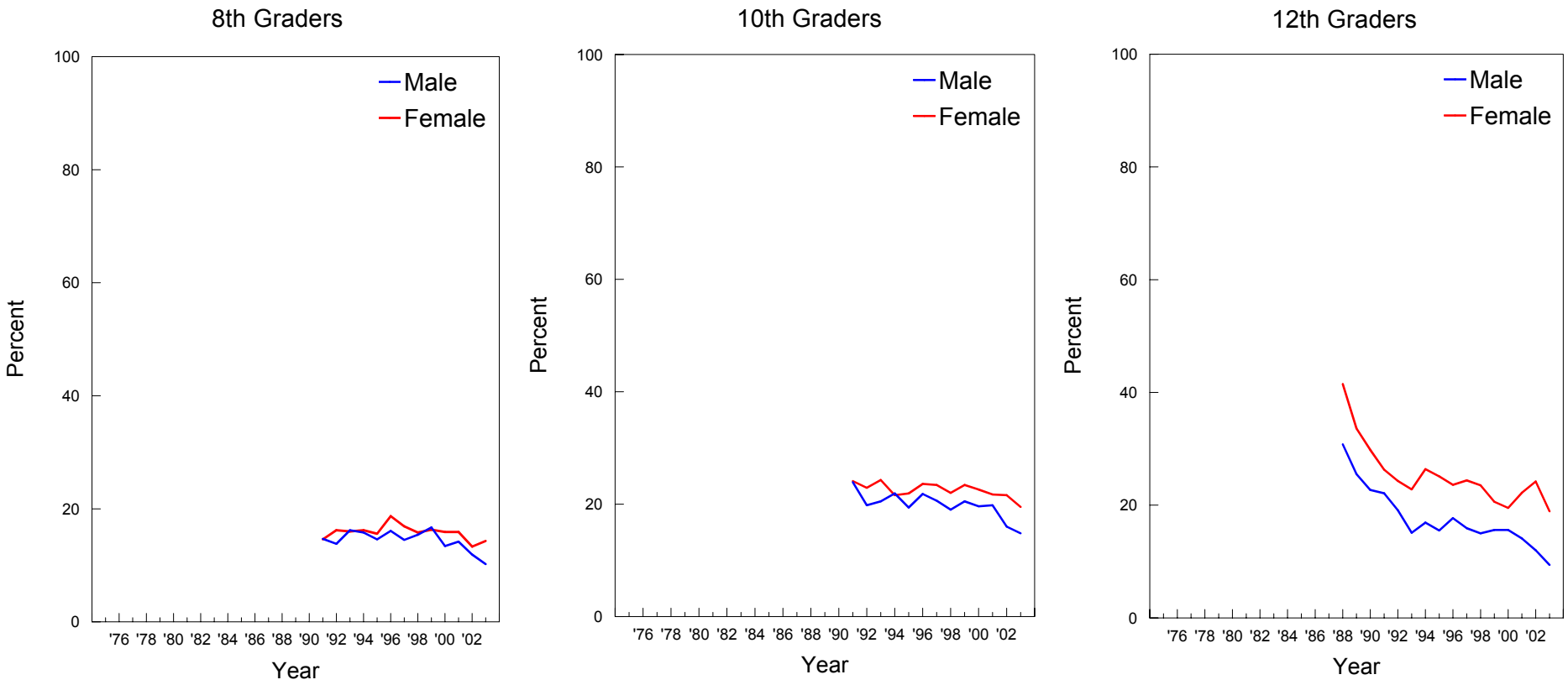
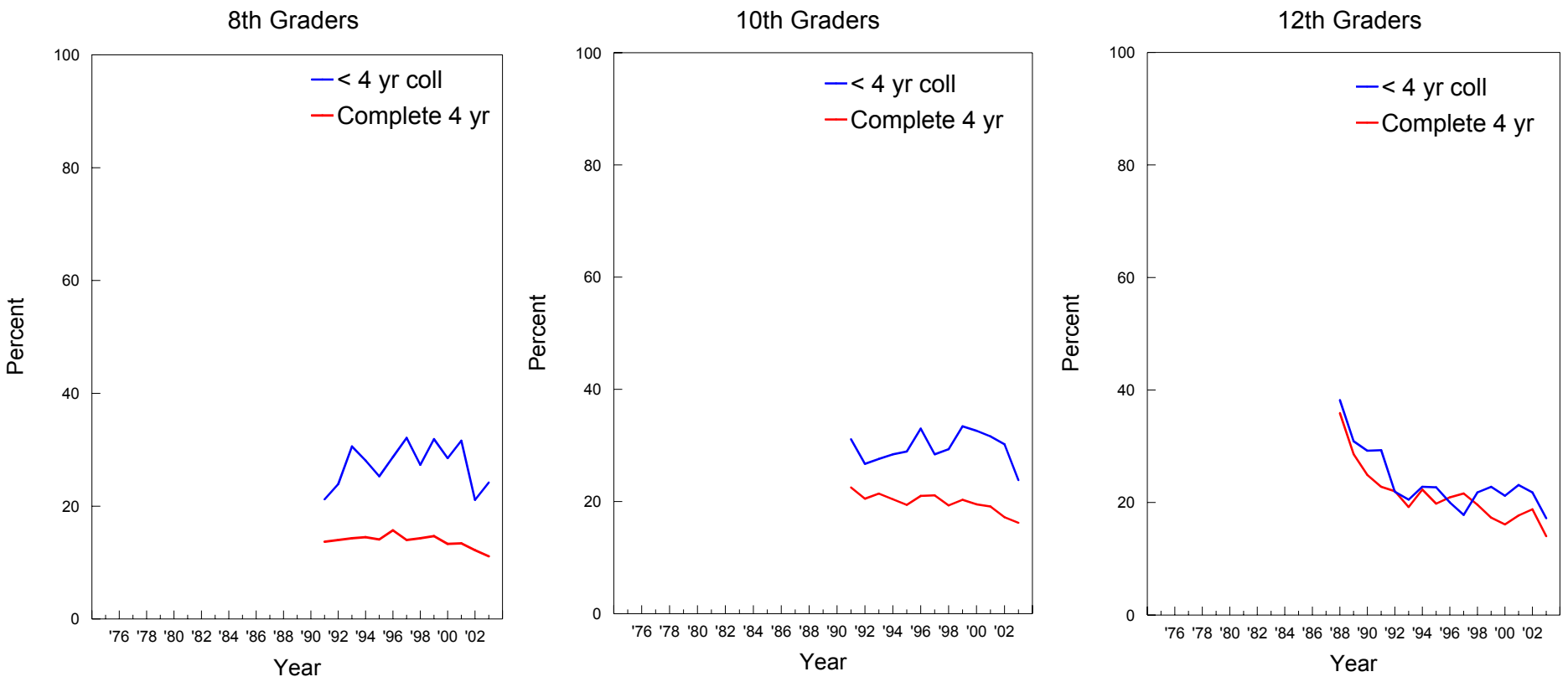
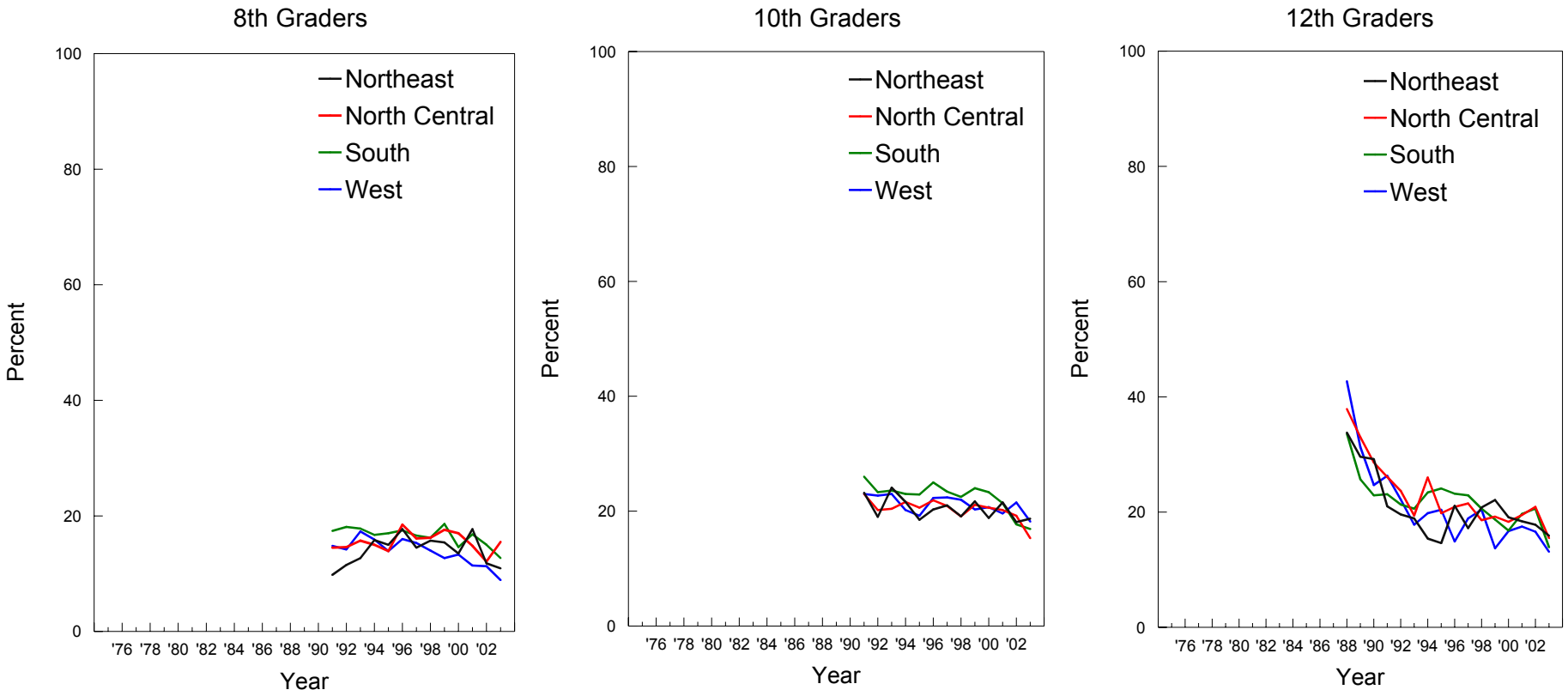
Wine Coolers: Trends in 30-Day Prevalence by Gender



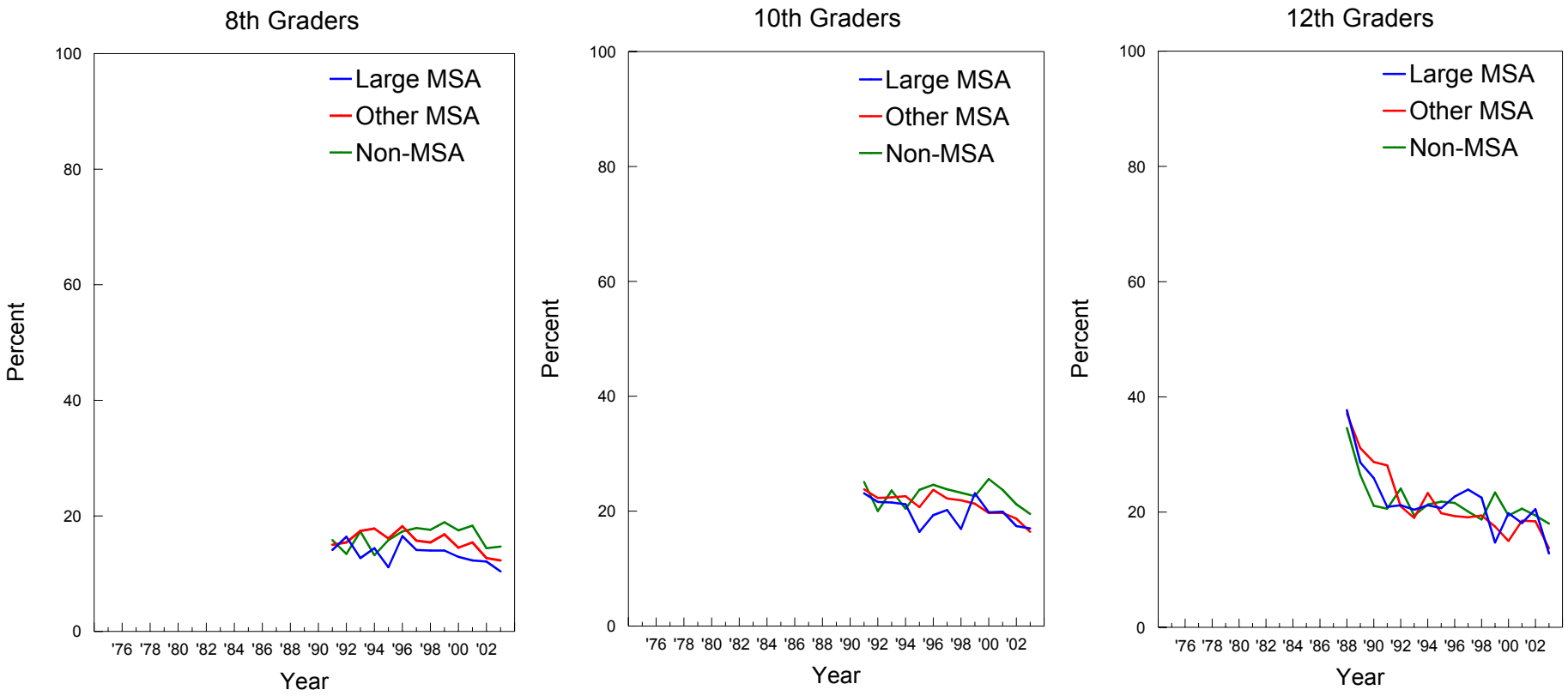
Wine Coolers: Trends in 30-Day Prevalence by College Plans



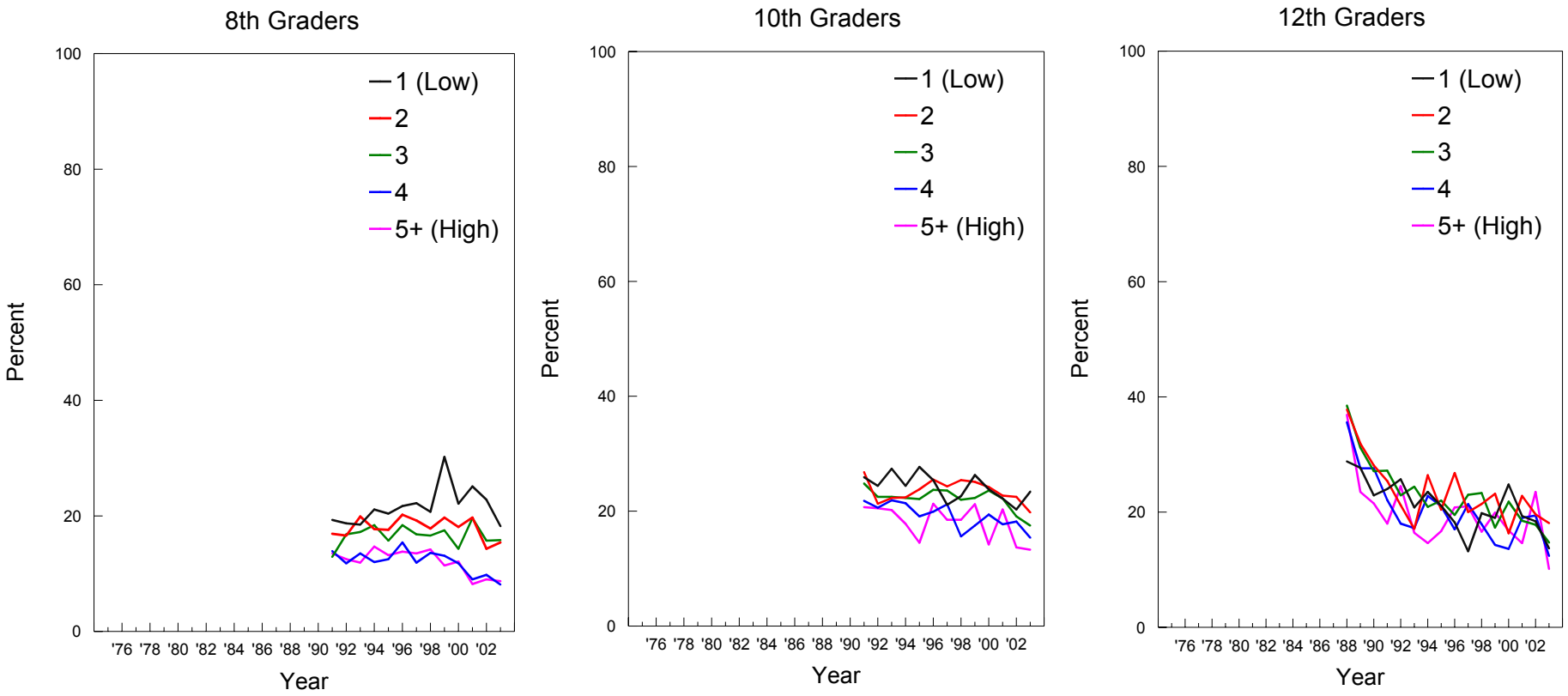
Wine Coolers: Trends in 30-Day Prevalence by Region



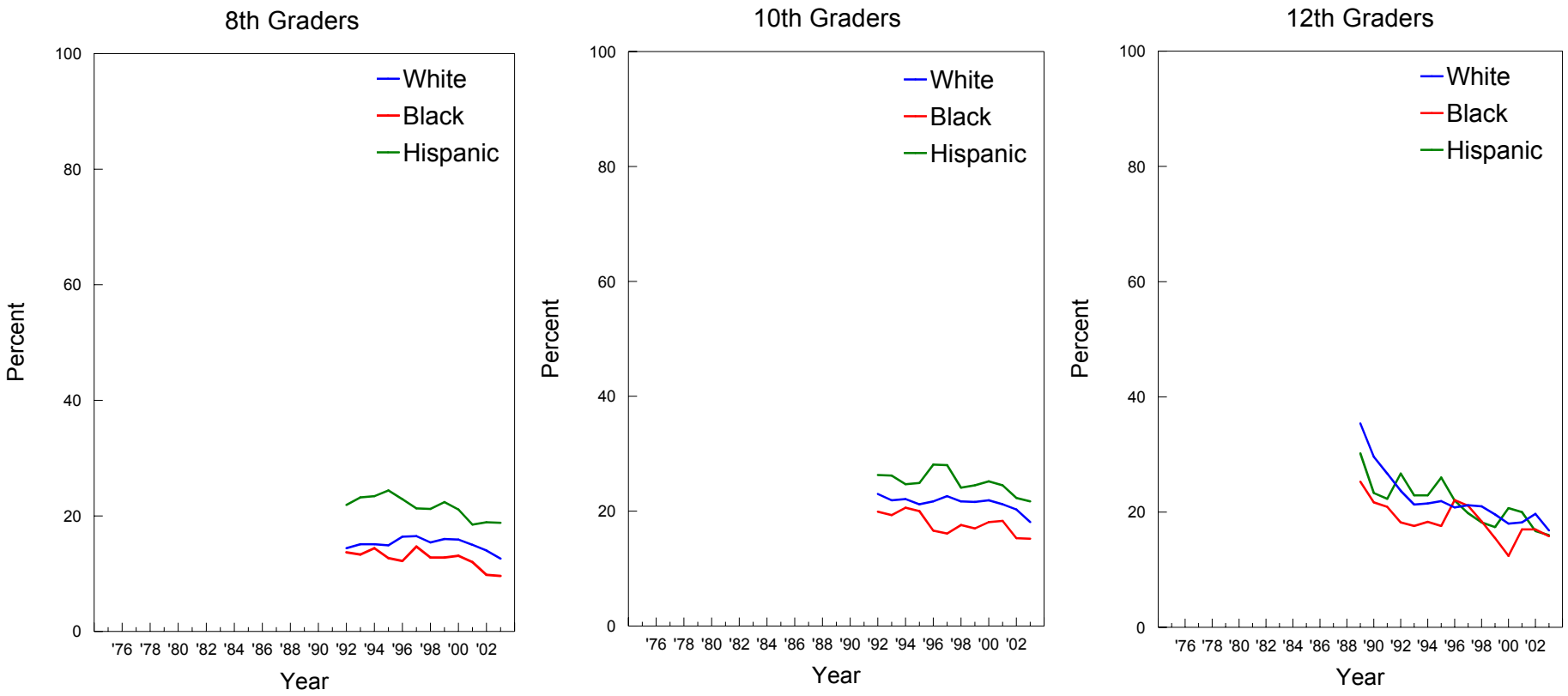
Wine Coolers: Trends in 30-Day Prevalence by Population Density



Wine Coolers: Trends in 30-Day Prevalence by Parents' Average Education



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



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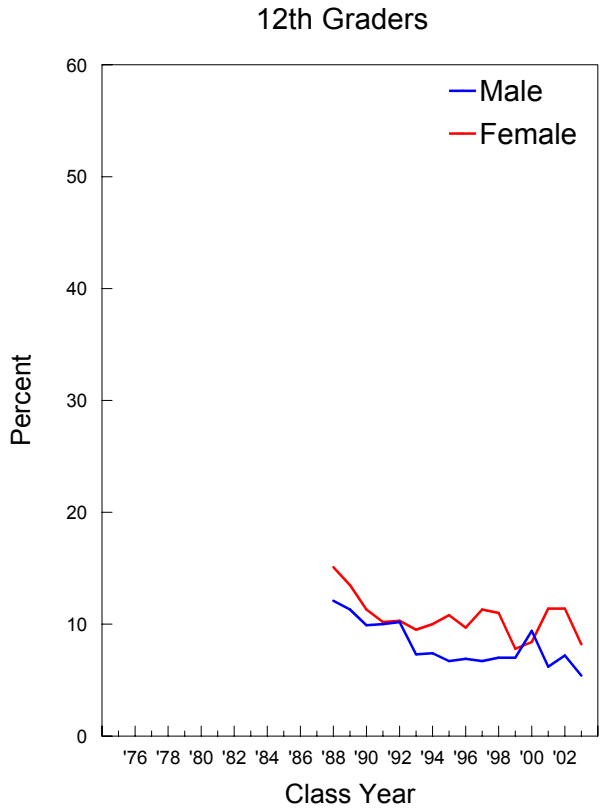
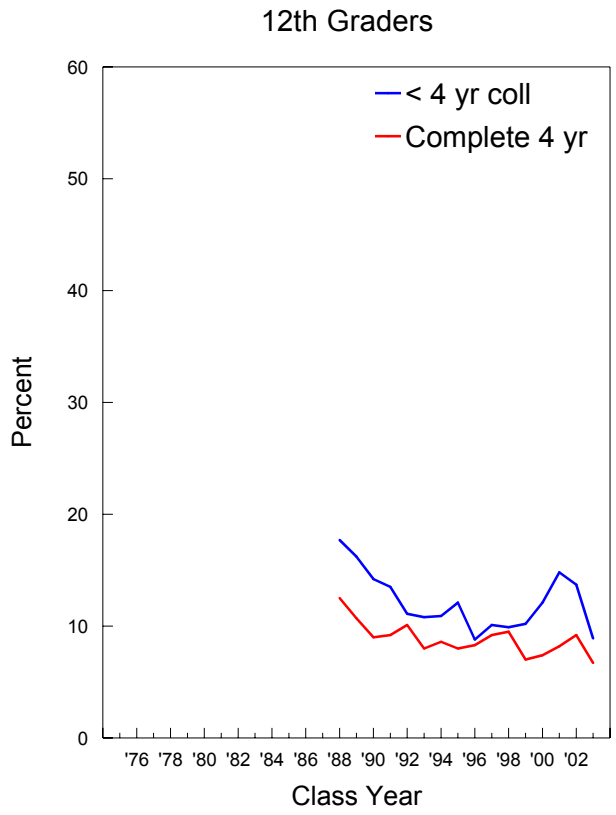
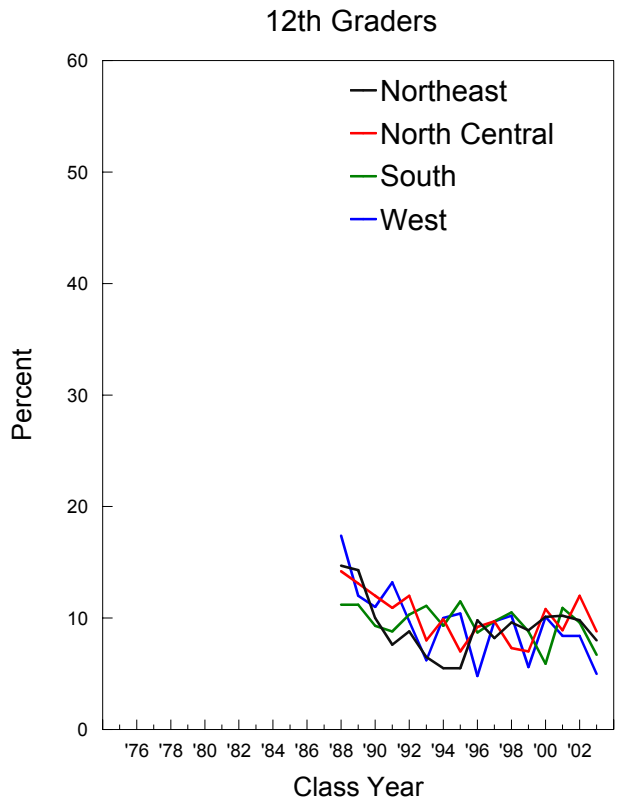
Wine Coolers: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Gender



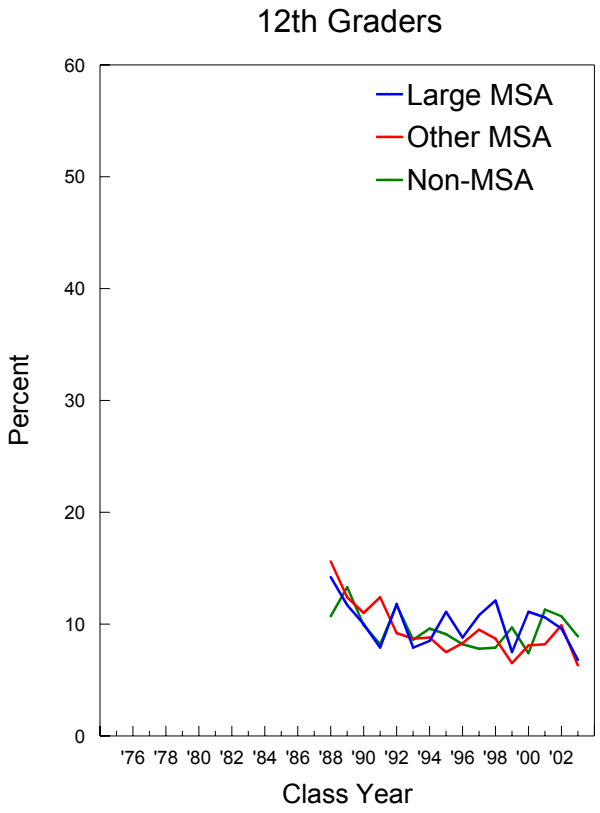
Wine Coolers: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by College Plans



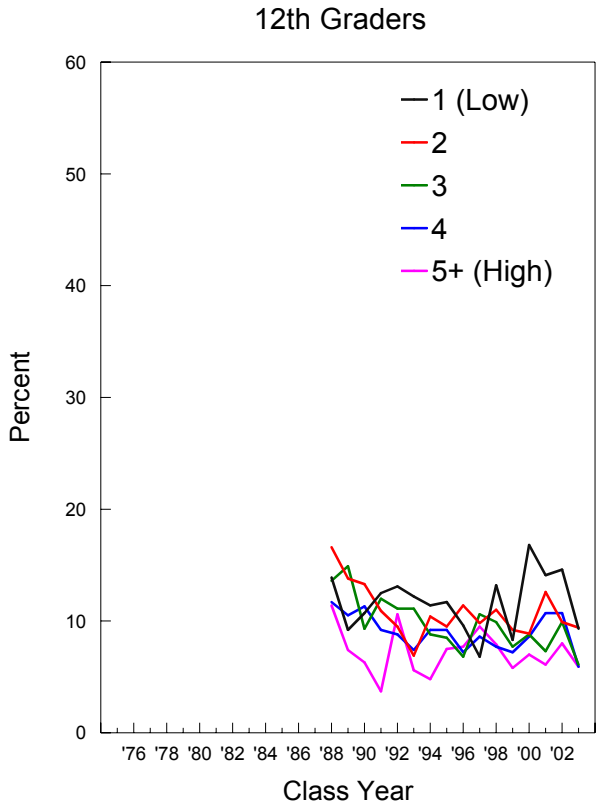
Wine Coolers: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Region



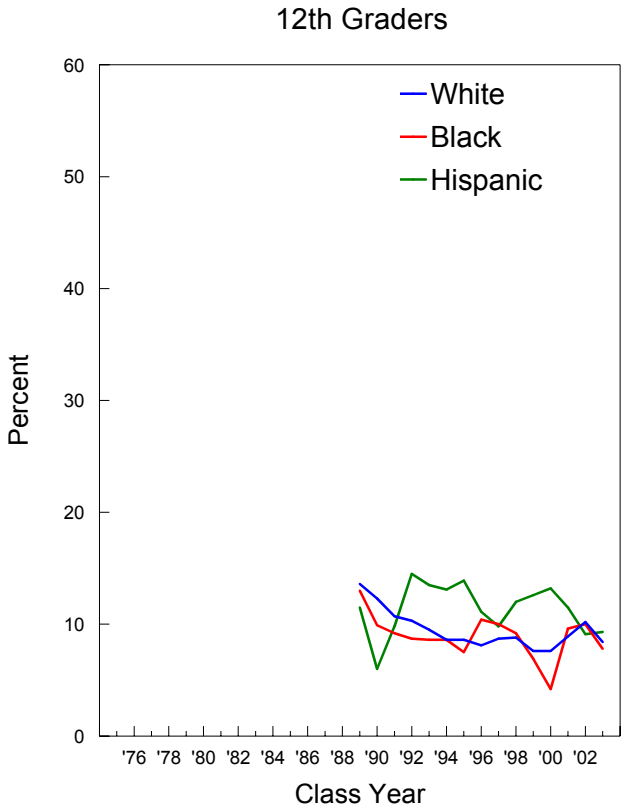
Wine Coolers: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Population Density



Wine Coolers: Trends in Two-Week Prevalence of 5 or More Drinks in a Row by Parents' Average Education



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



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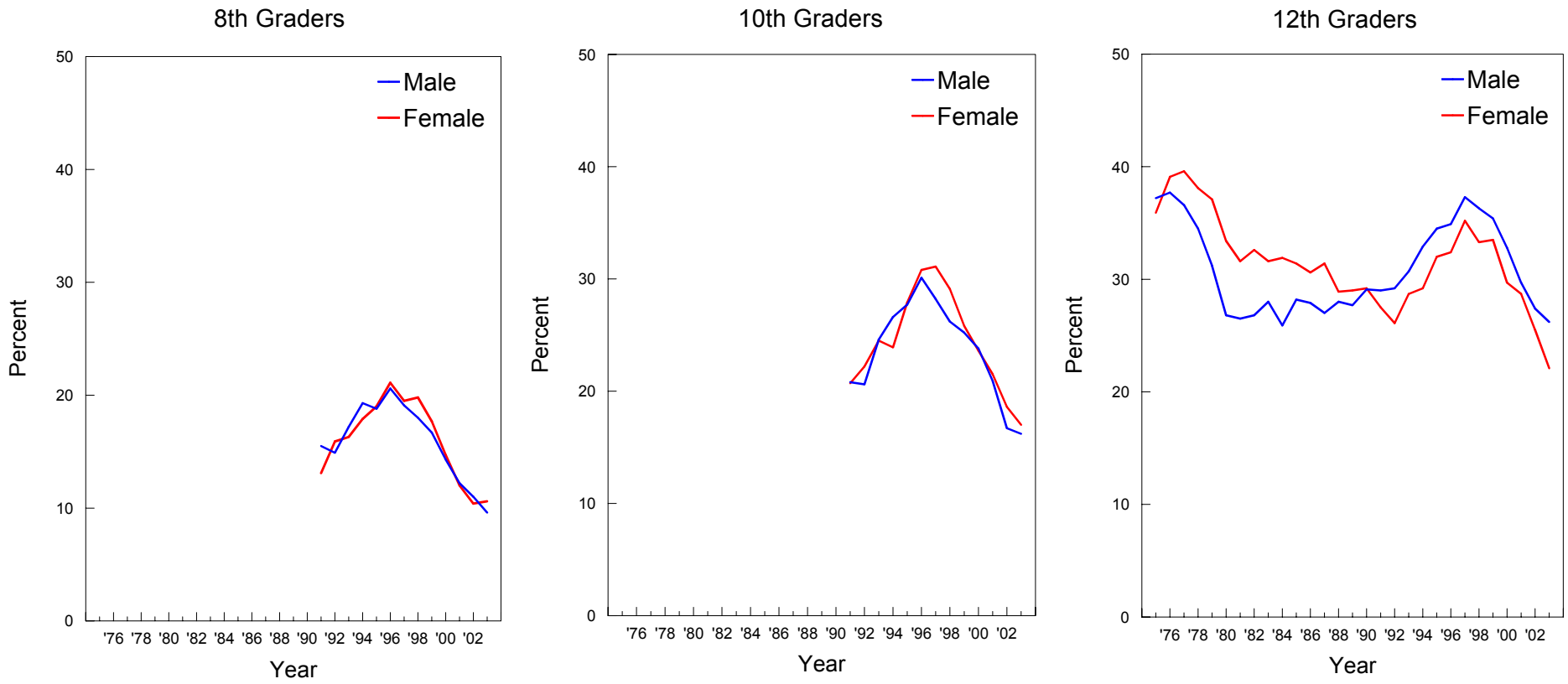
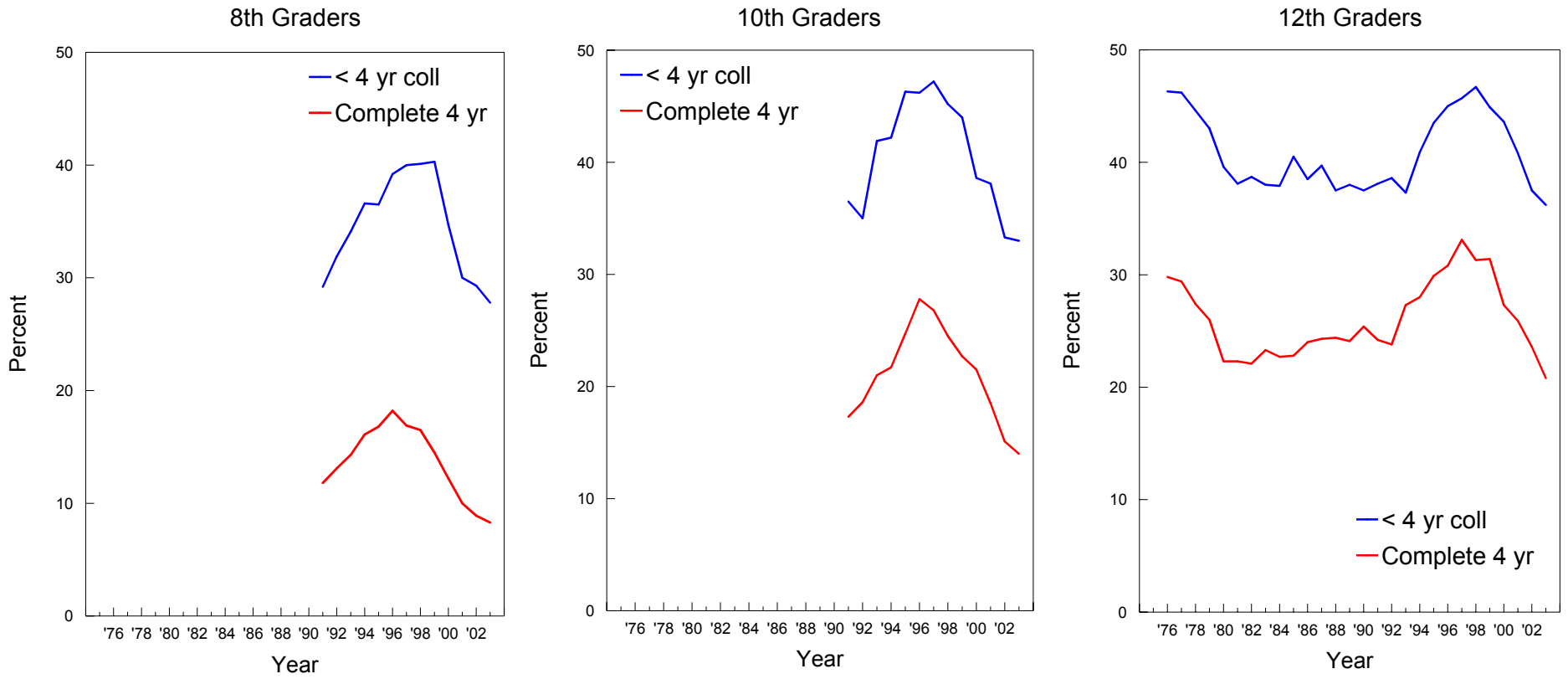
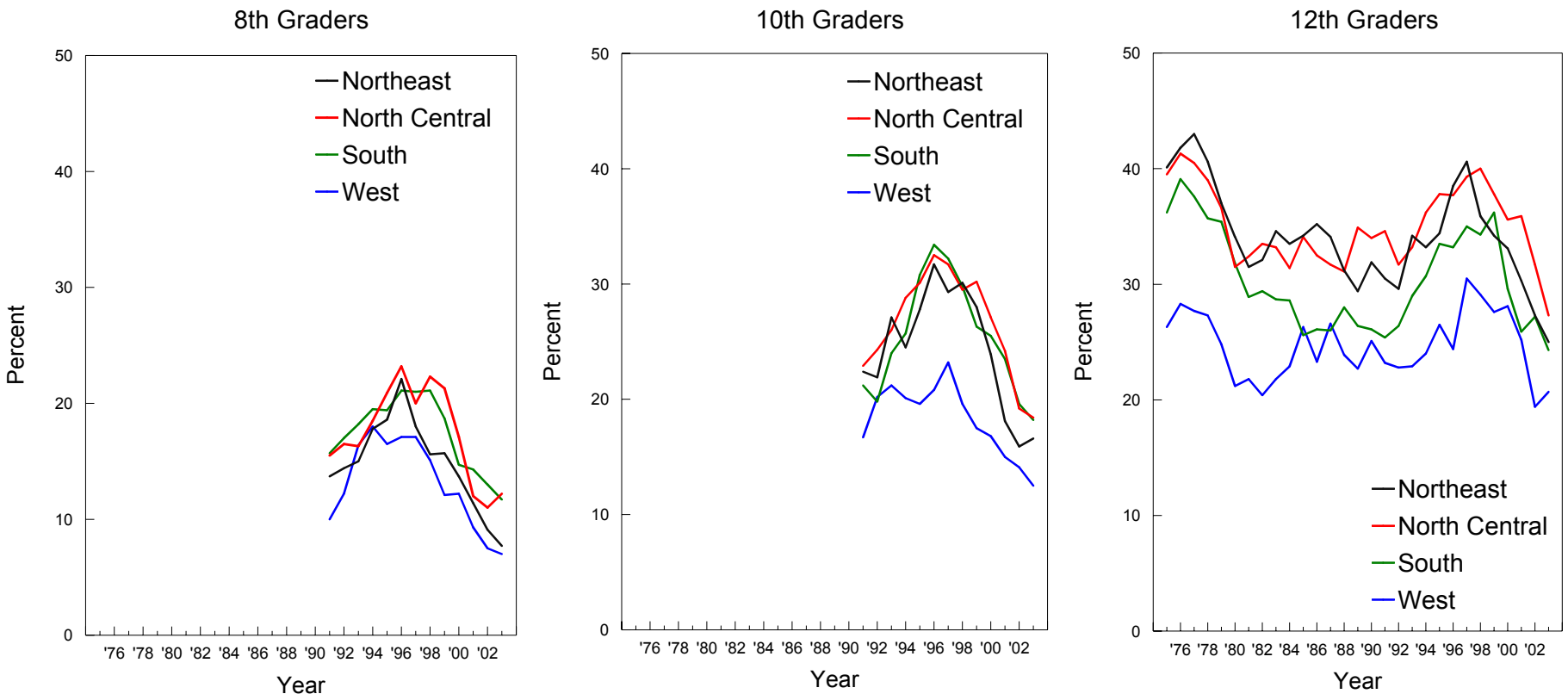
Cigarettes: Trends in 30-Day Prevalence by Gender



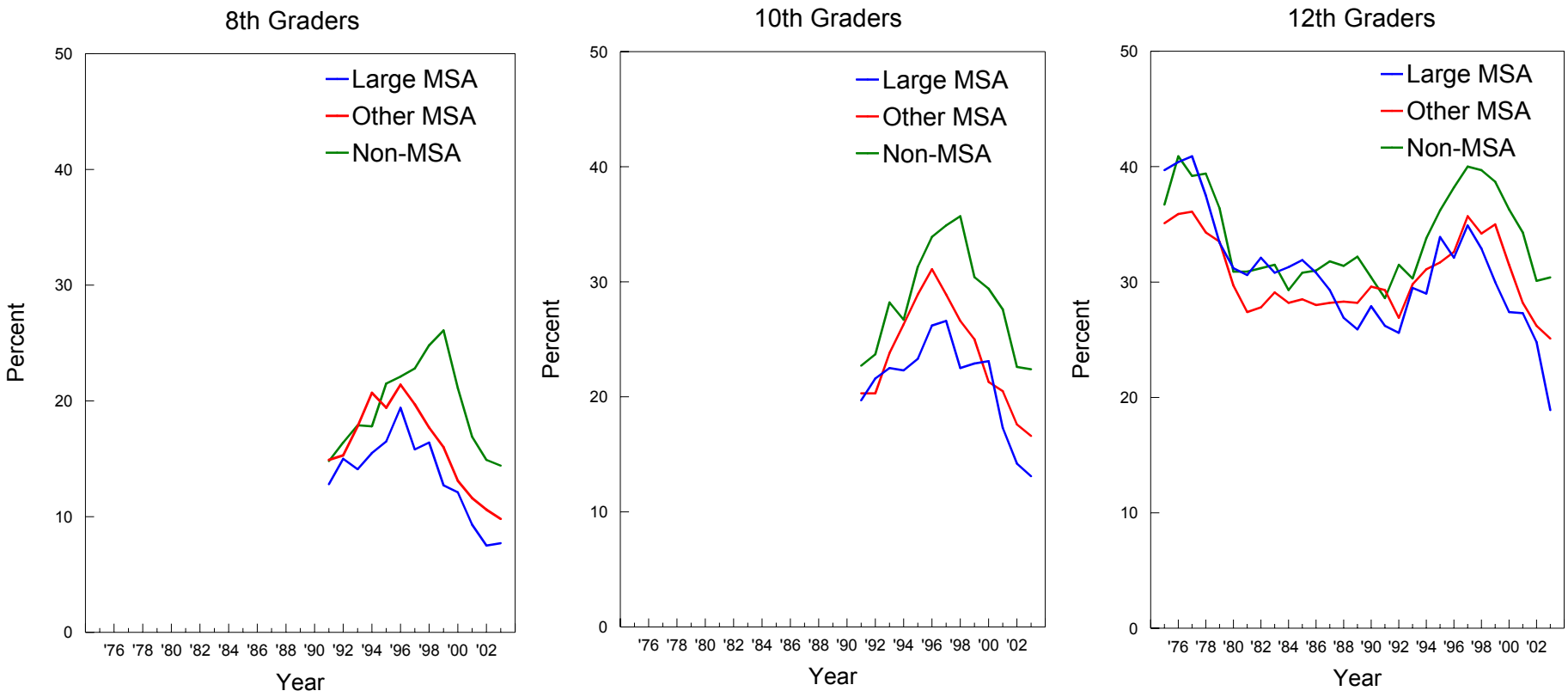
Cigarettes: Trends in 30-Day Prevalence by College Plans



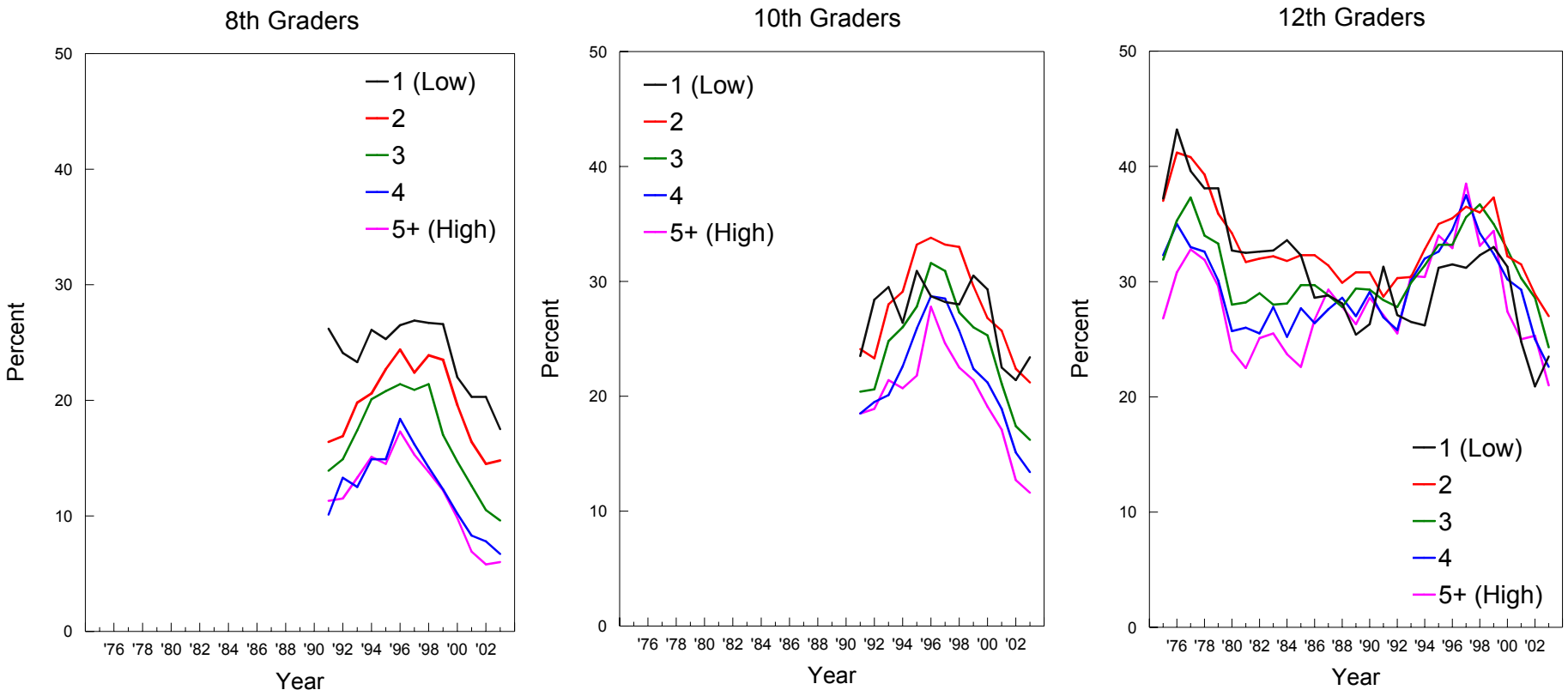
Cigarettes: Trends in 30-Day Prevalence by Region



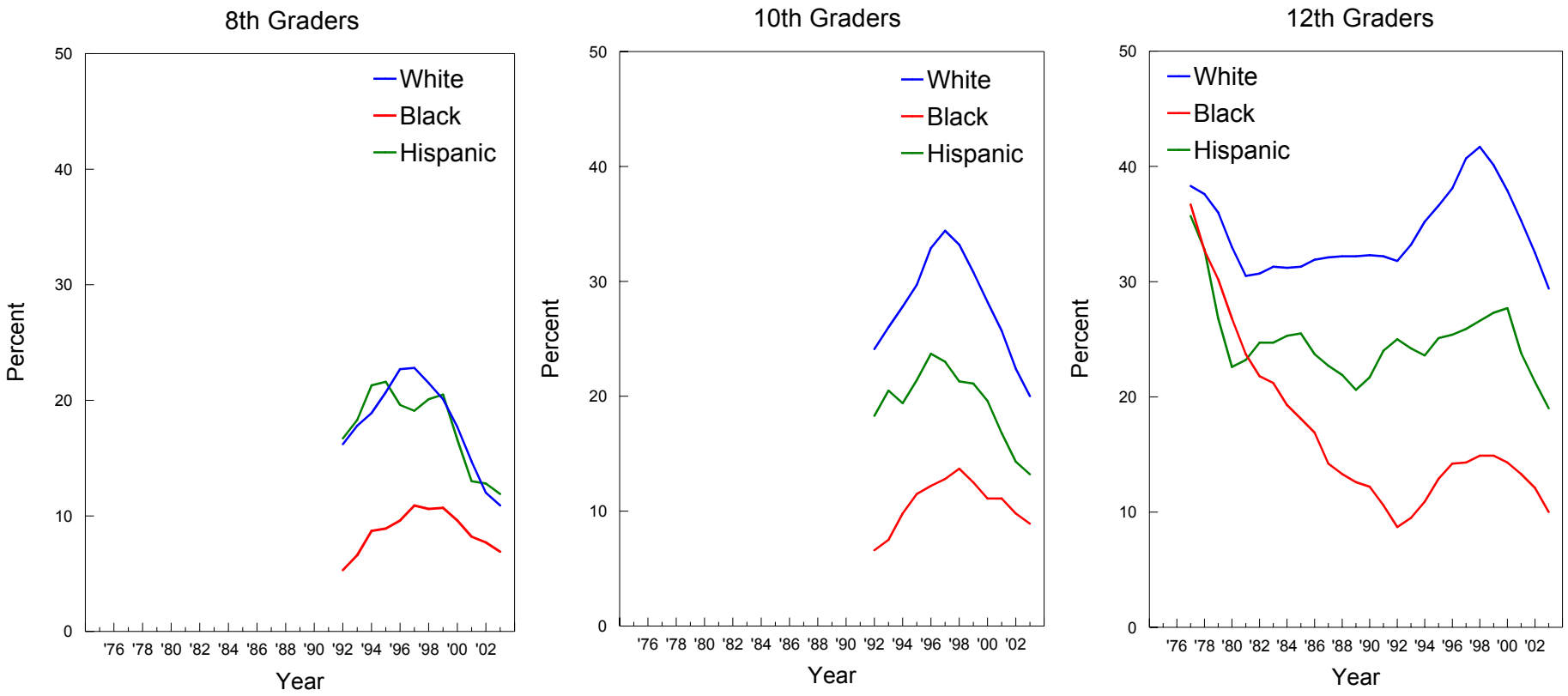
Cigarettes: Trends in 30-Day Prevalence by Population Density



Cigarettes: Trends in 30-Day Prevalence by Parents' Average Education



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



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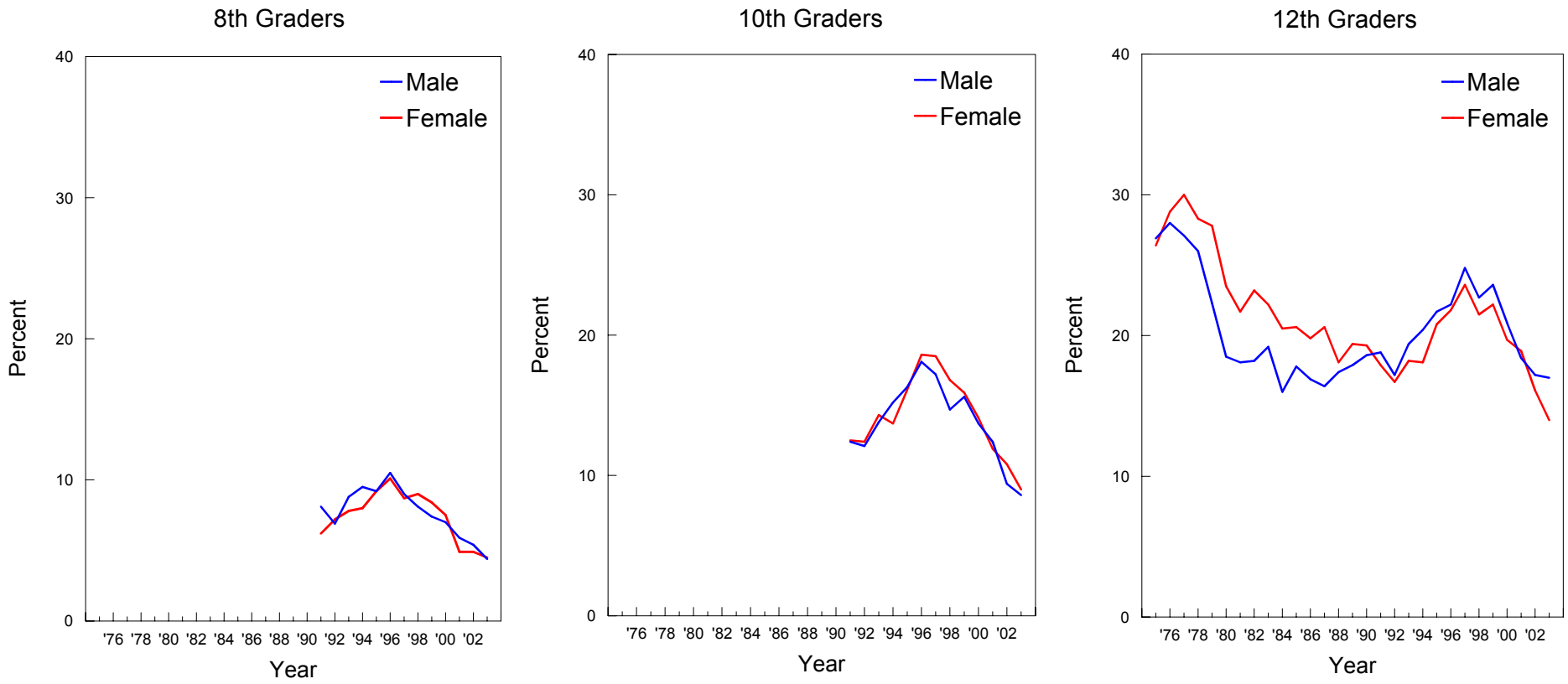
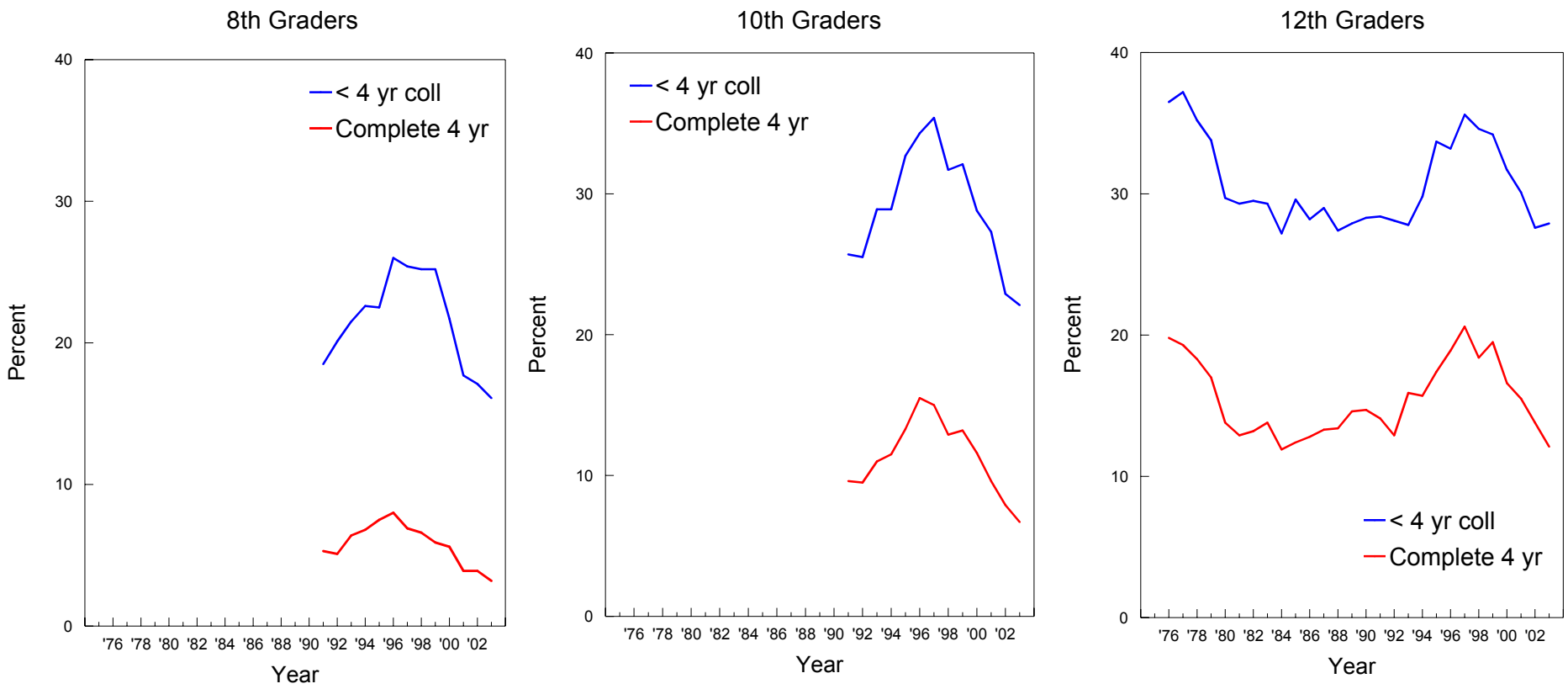
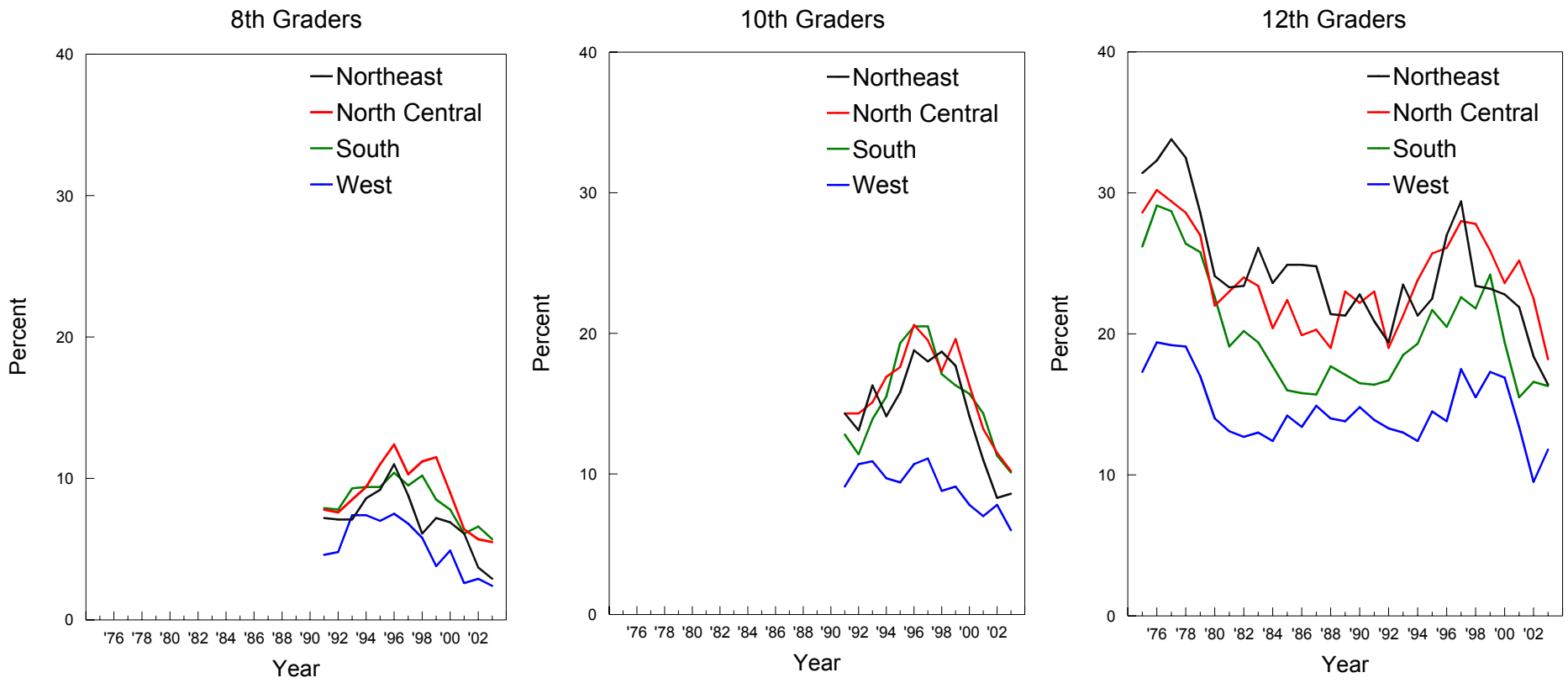
Cigarettes: Trends in 30-Day Prevalence of Daily Use by Gender



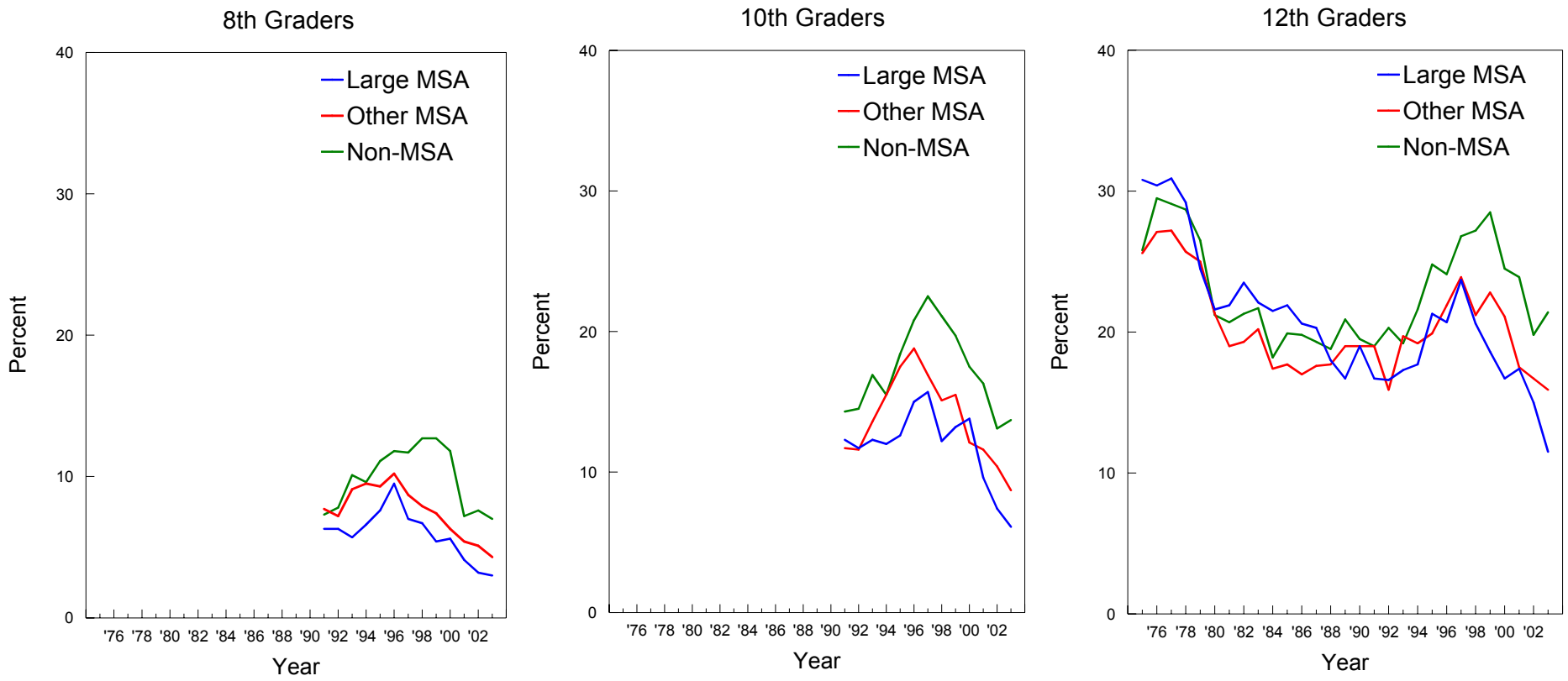
Cigarettes: Trends in 30-Day Prevalence of Daily Use by College Plans



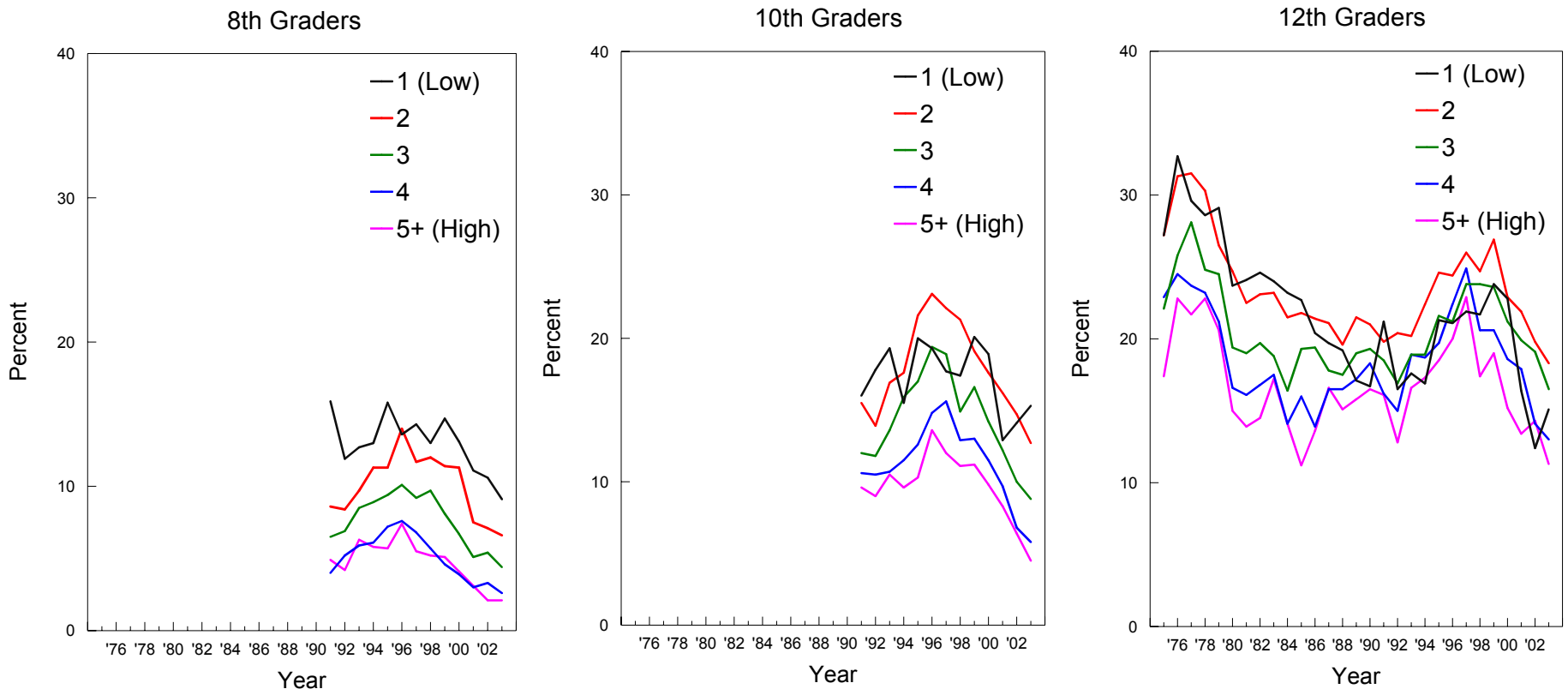
Cigarettes: Trends in 30-Day Prevalence of Daily Use by Region



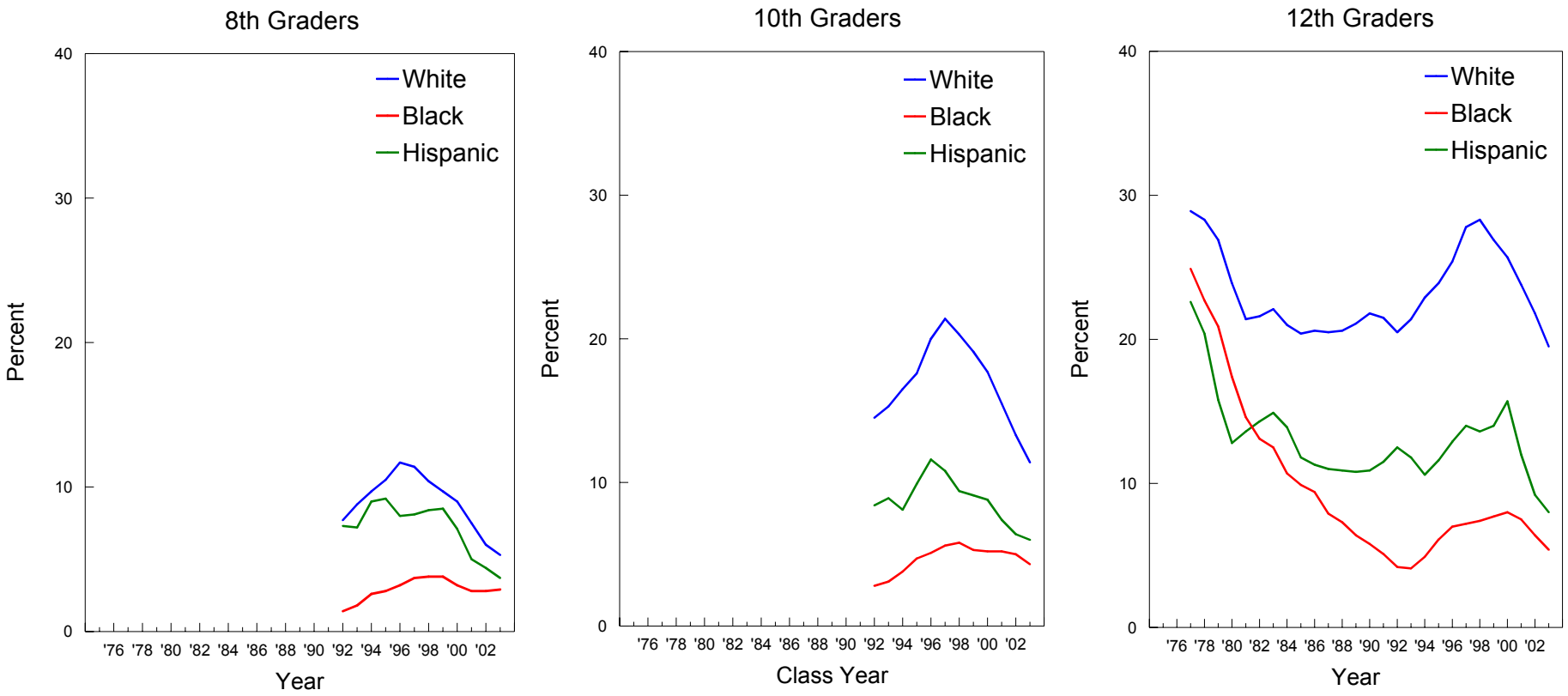
Cigarettes: Trends in 30-Day Prevalence of Daily Use by Population Density



Cigarettes: Trends in 30-Day Prevalence of Daily Use by Parents' Average Education

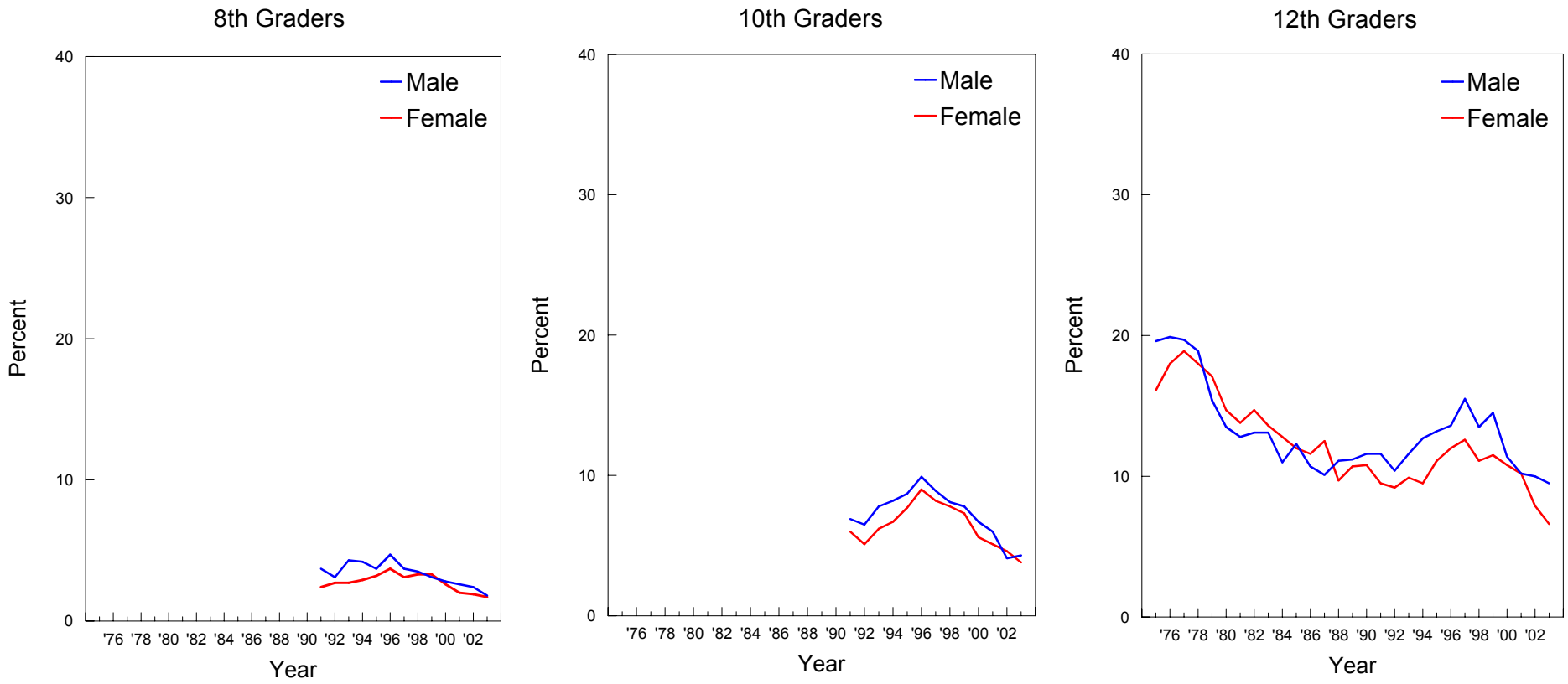


Cigarettes: Trends in 30-Day Prevalence of Daily Use by Race/Ethnicity*

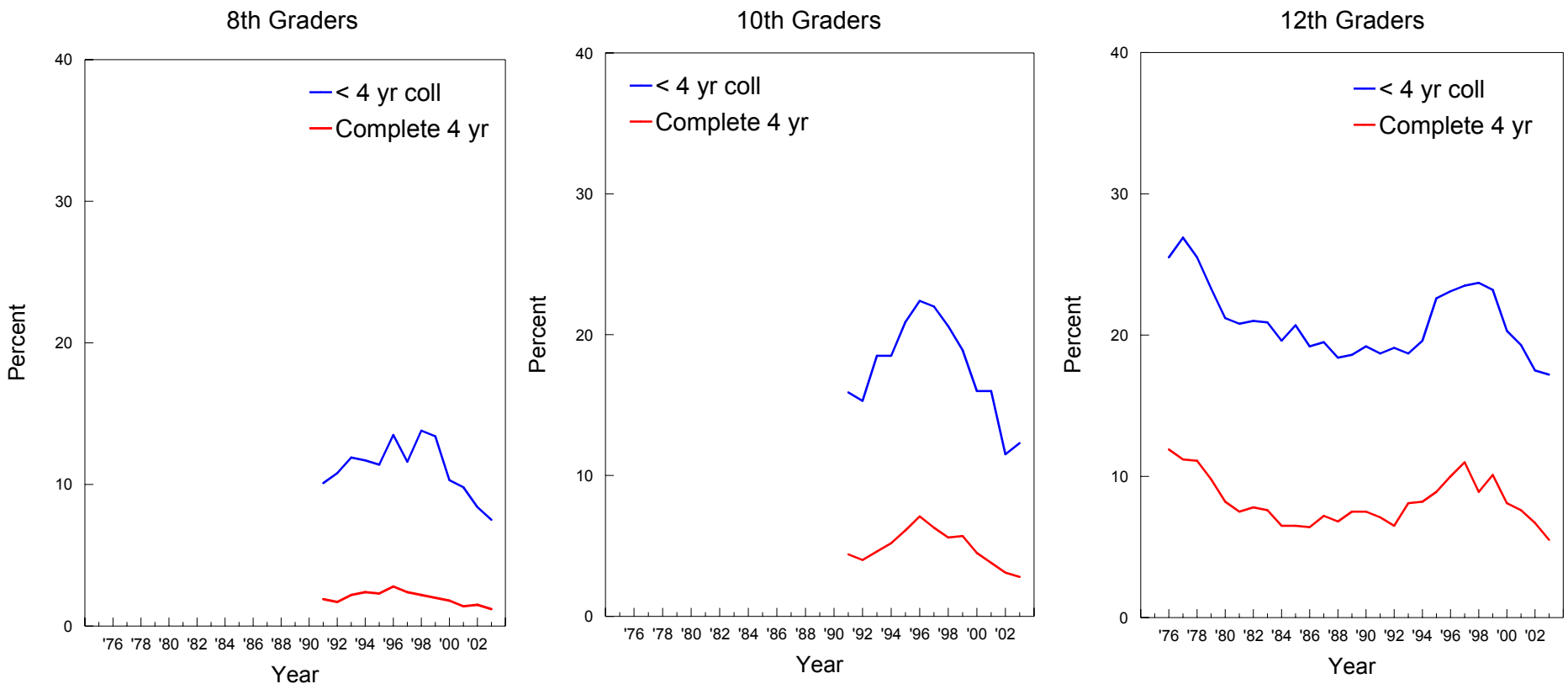


*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

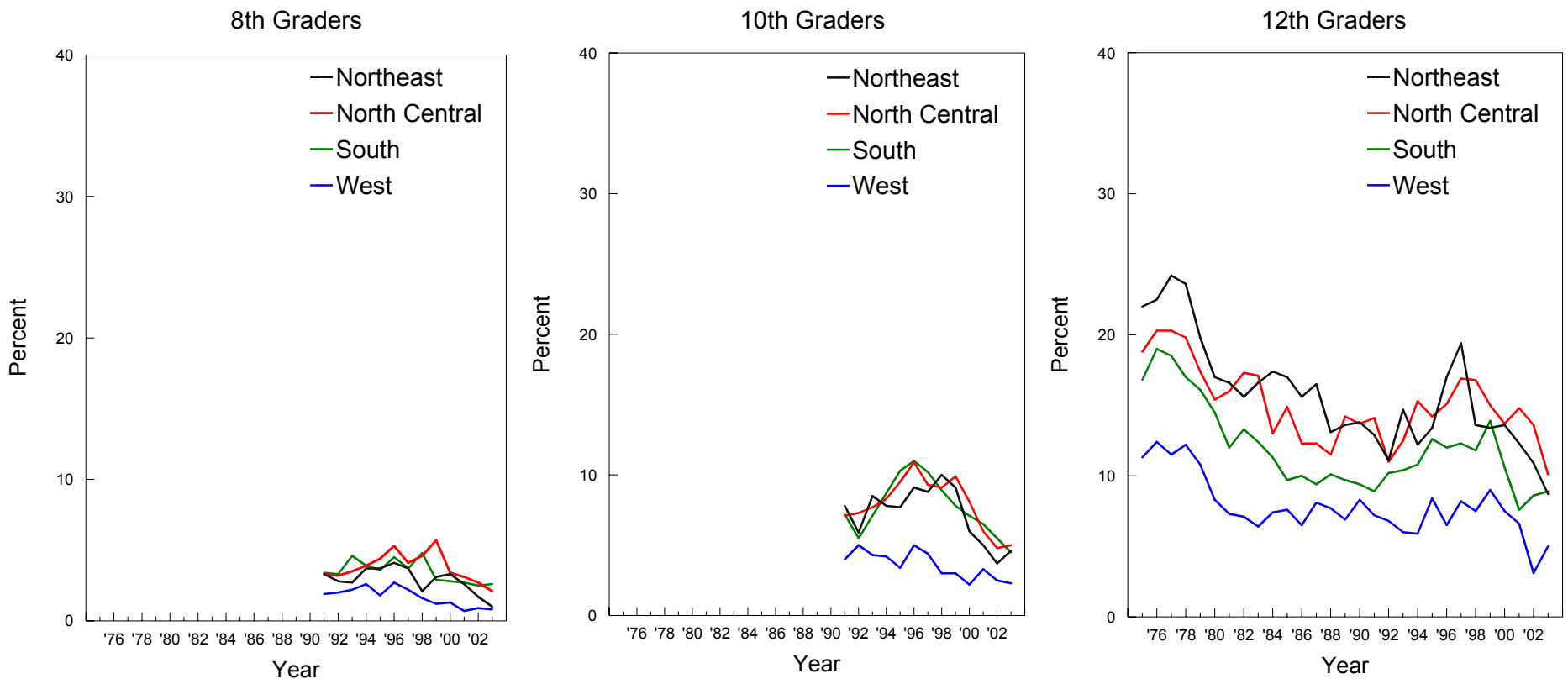
Cigarettes: Trends in 30-Day Prevalence of Use of Half-Pack a Day or More by Gender



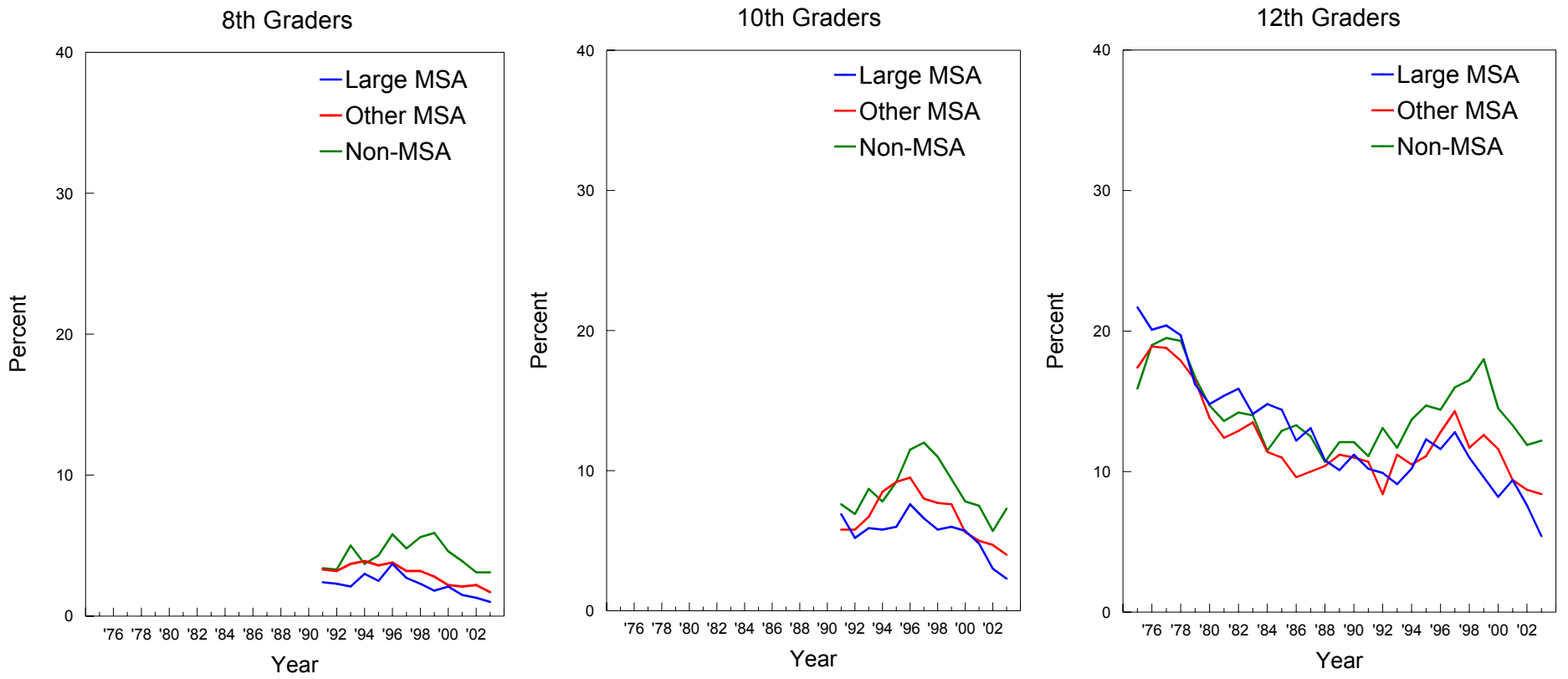
Cigarettes: Trends in 30-Day Prevalence of Use of Half-Pack a Day or More by College Plans



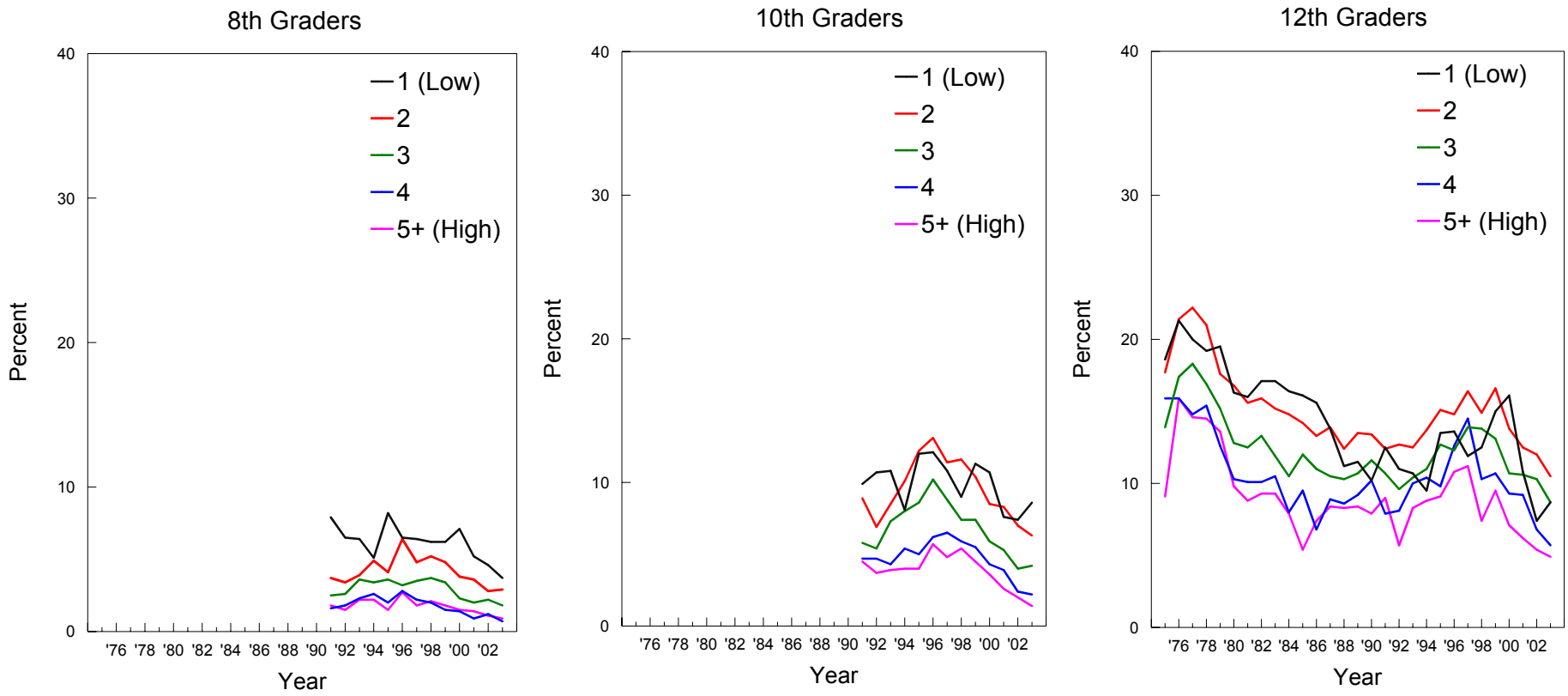
Cigarettes: Trends in 30-Day Prevalence of Use of Half-Pack a Day or More by Region



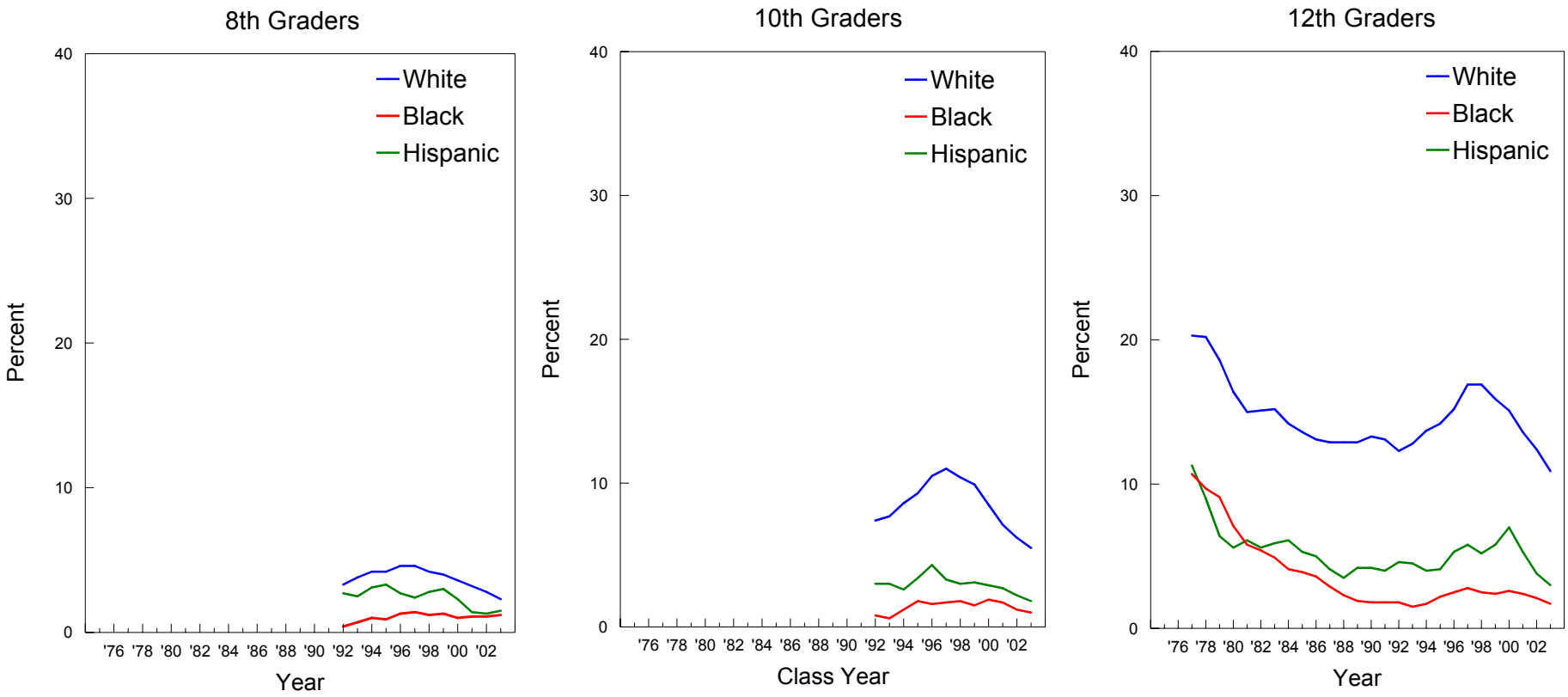
Cigarettes: Trends in 30-Day Prevalence of Use of Half-Pack a Day or More by Population Density



Cigarettes: Trends in 30-Day Prevalence of Use of Half-Pack a Day or More by Parents' Average Education

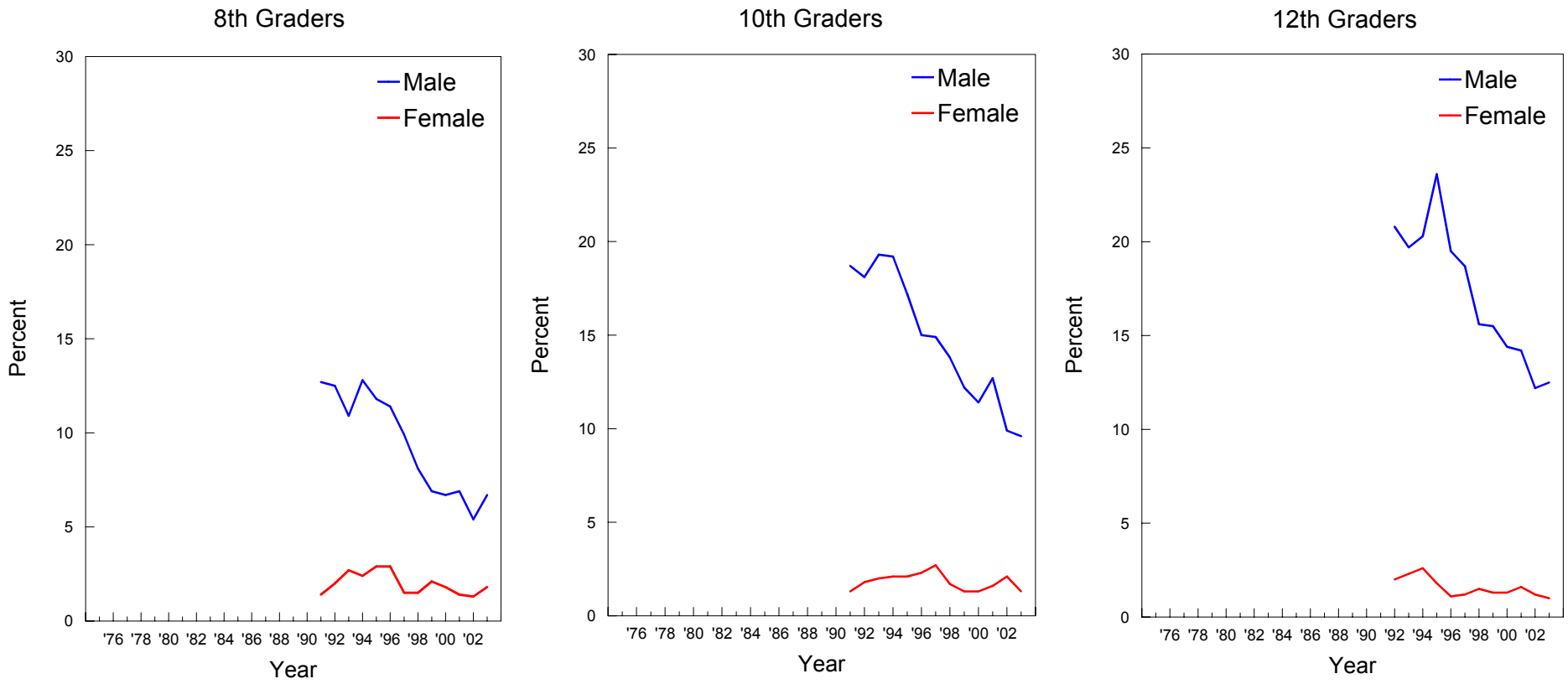


Cigarettes: Trends in 30-Day Prevalence of Use of Half-Pack a Day or More by Race/Ethnicity*

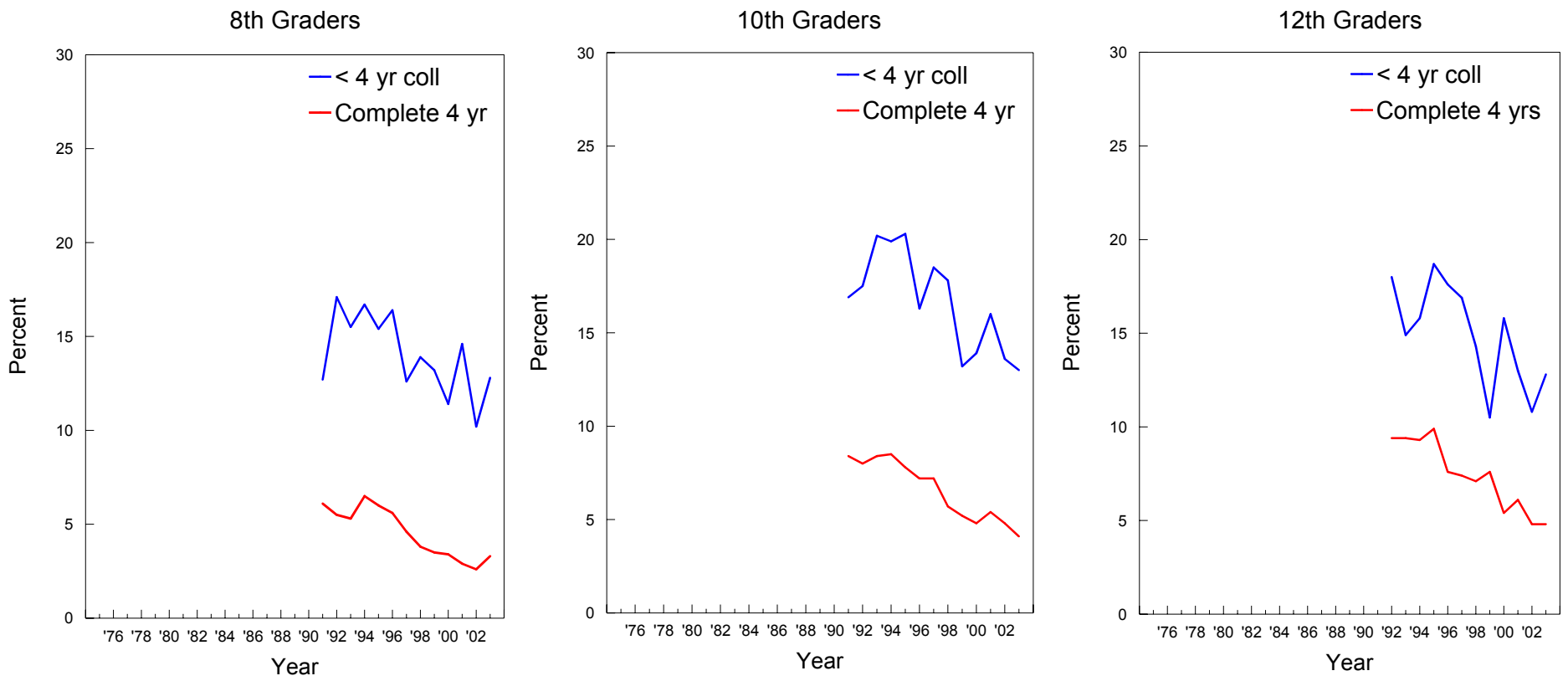


*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

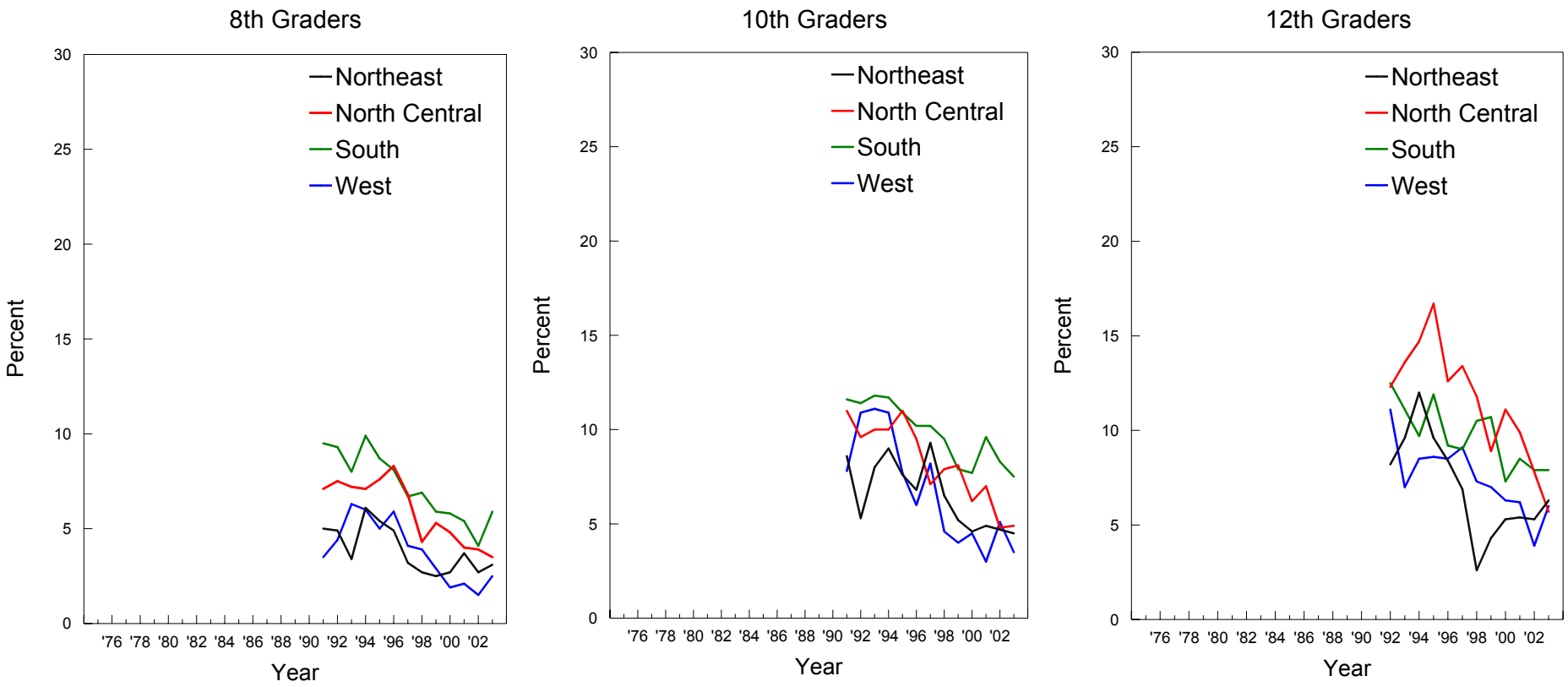
Smokeless Tobacco: Trends in 30-Day Prevalence by Gender



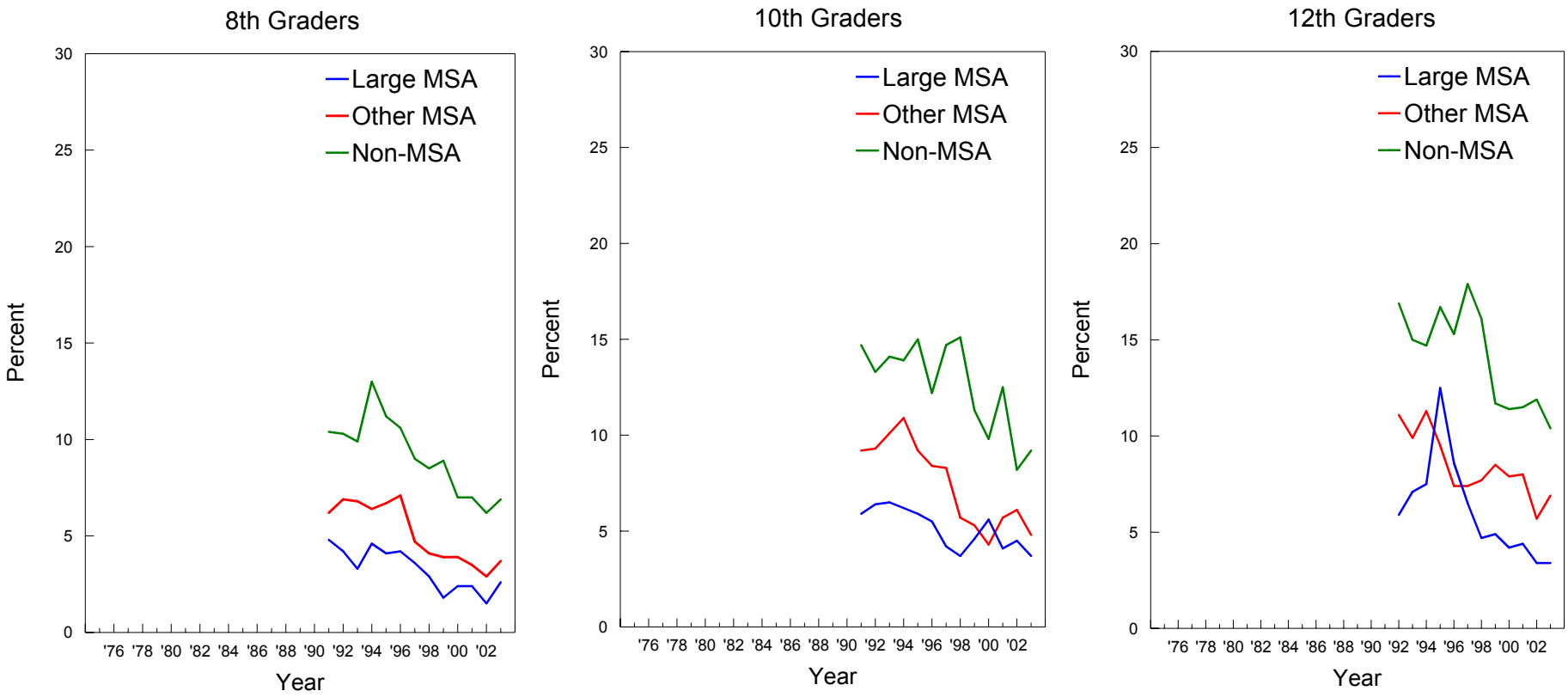
Smokeless Tobacco: Trends in 30-Day Prevalence by College Plans



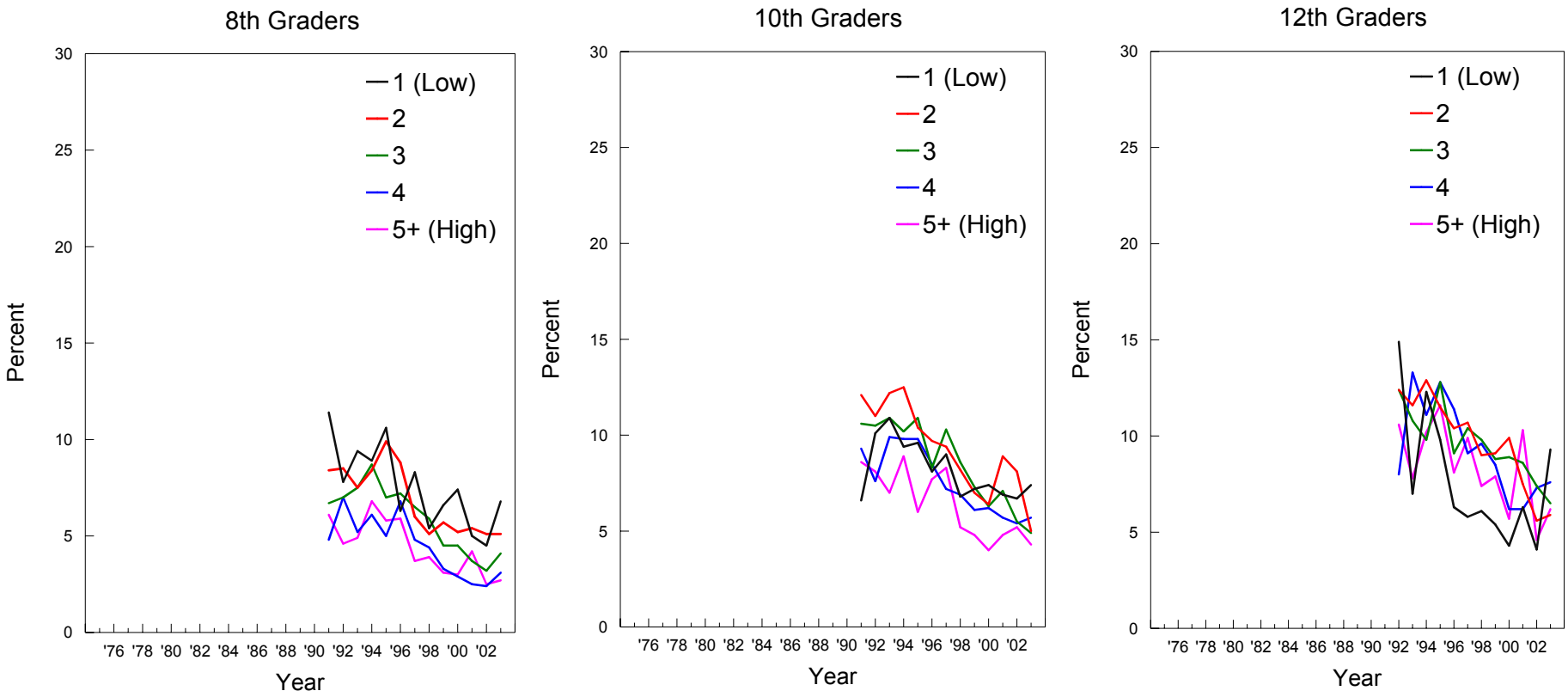
Smokeless Tobacco: Trends in 30-Day Prevalence by Region



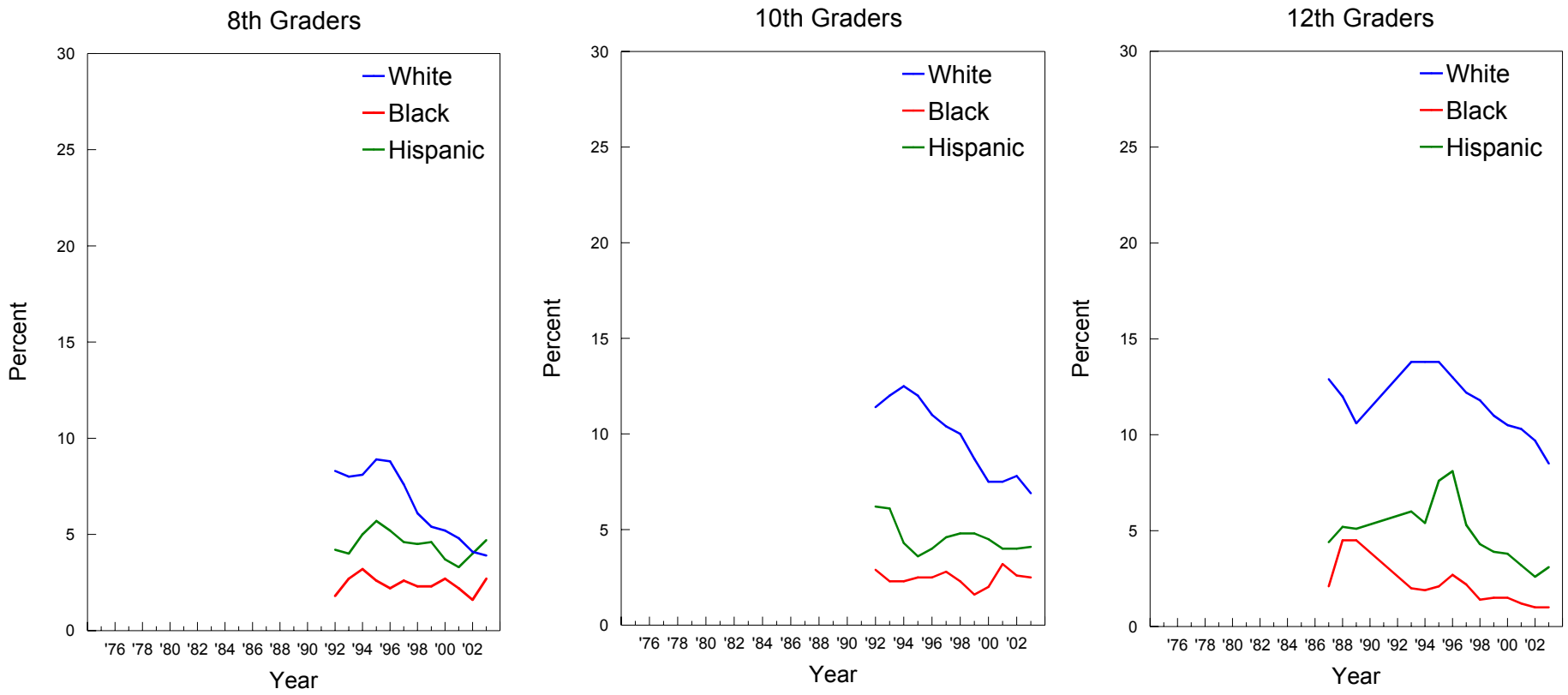
Smokeless Tobacco: Trends in 30-Day Prevalence by Population Density



Smokeless Tobacco: Trends in 30-Day Prevalence by Parents' Average Education

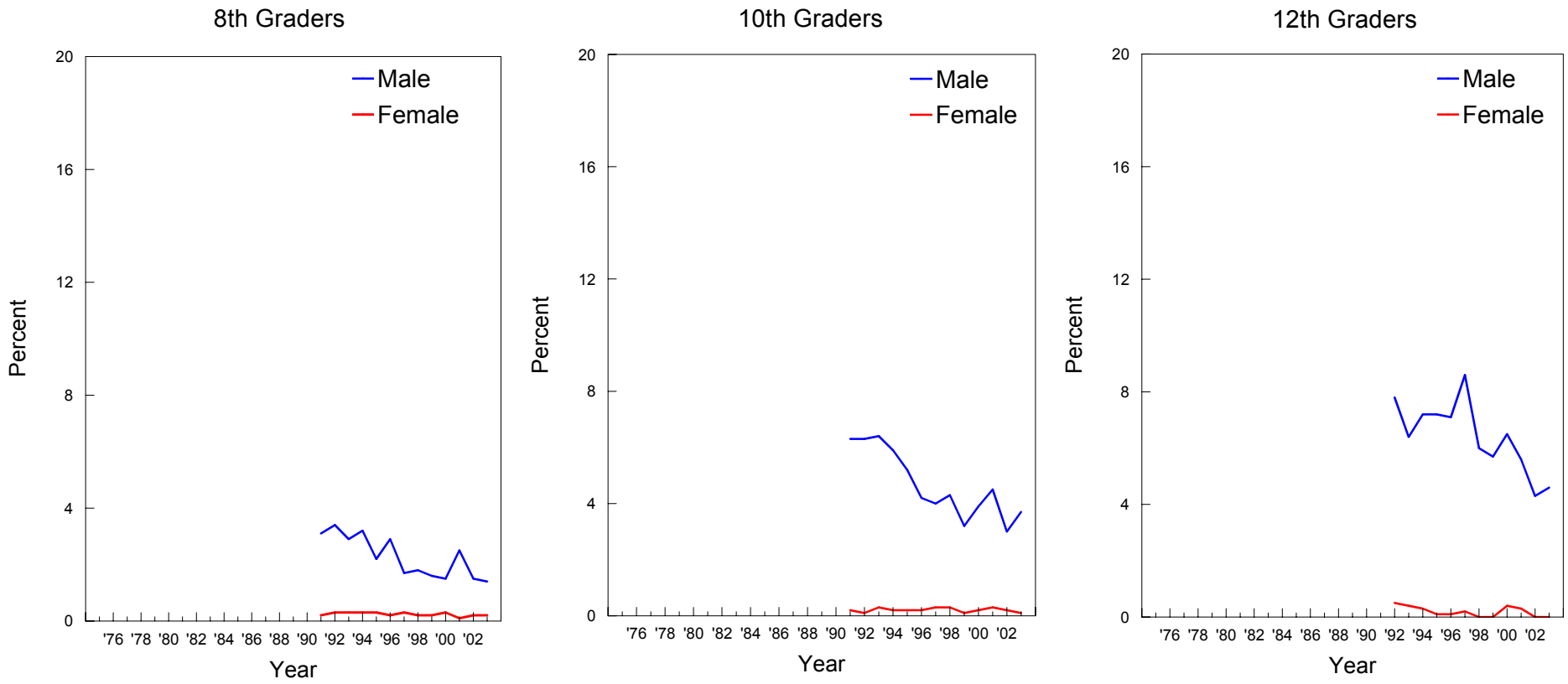


Smokeless Tobacco: Trends in 30-Day Prevalence by Race/Ethnicity*

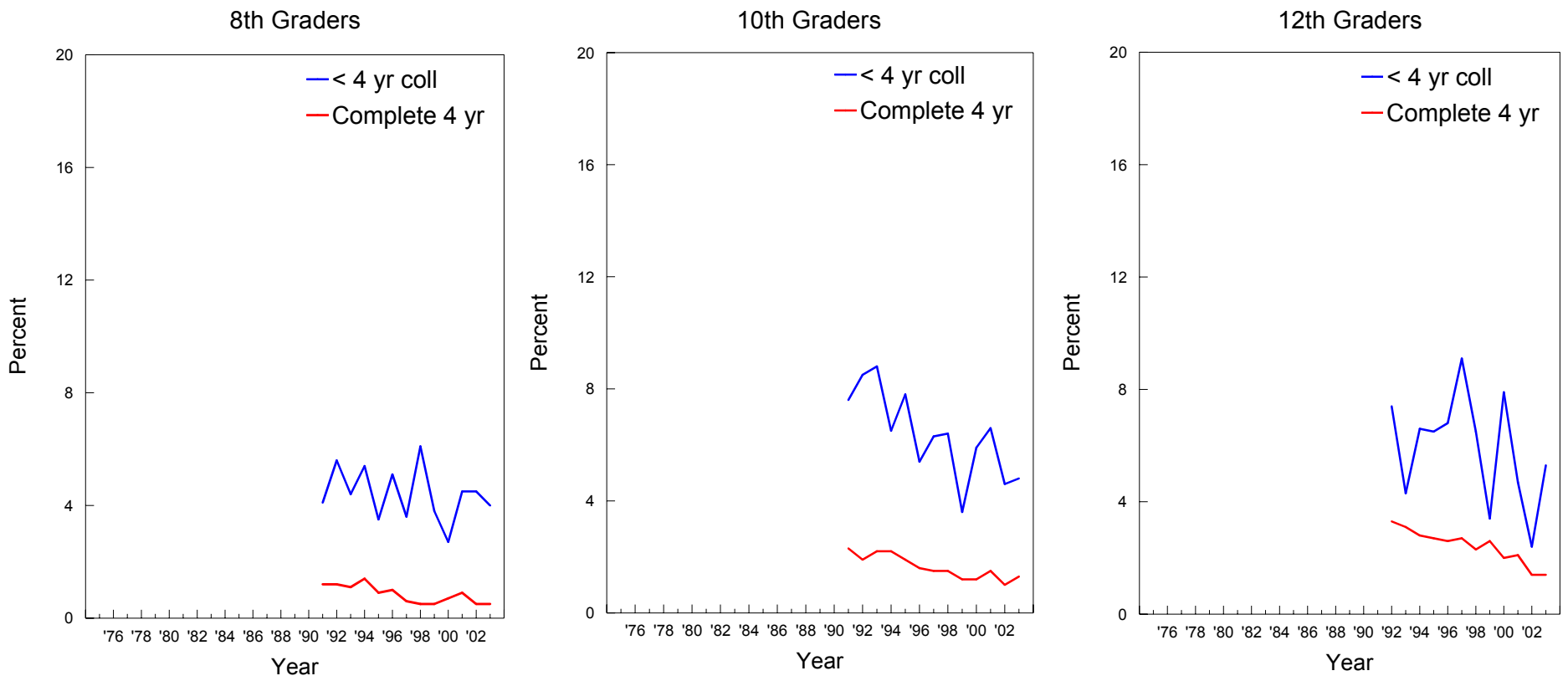


*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

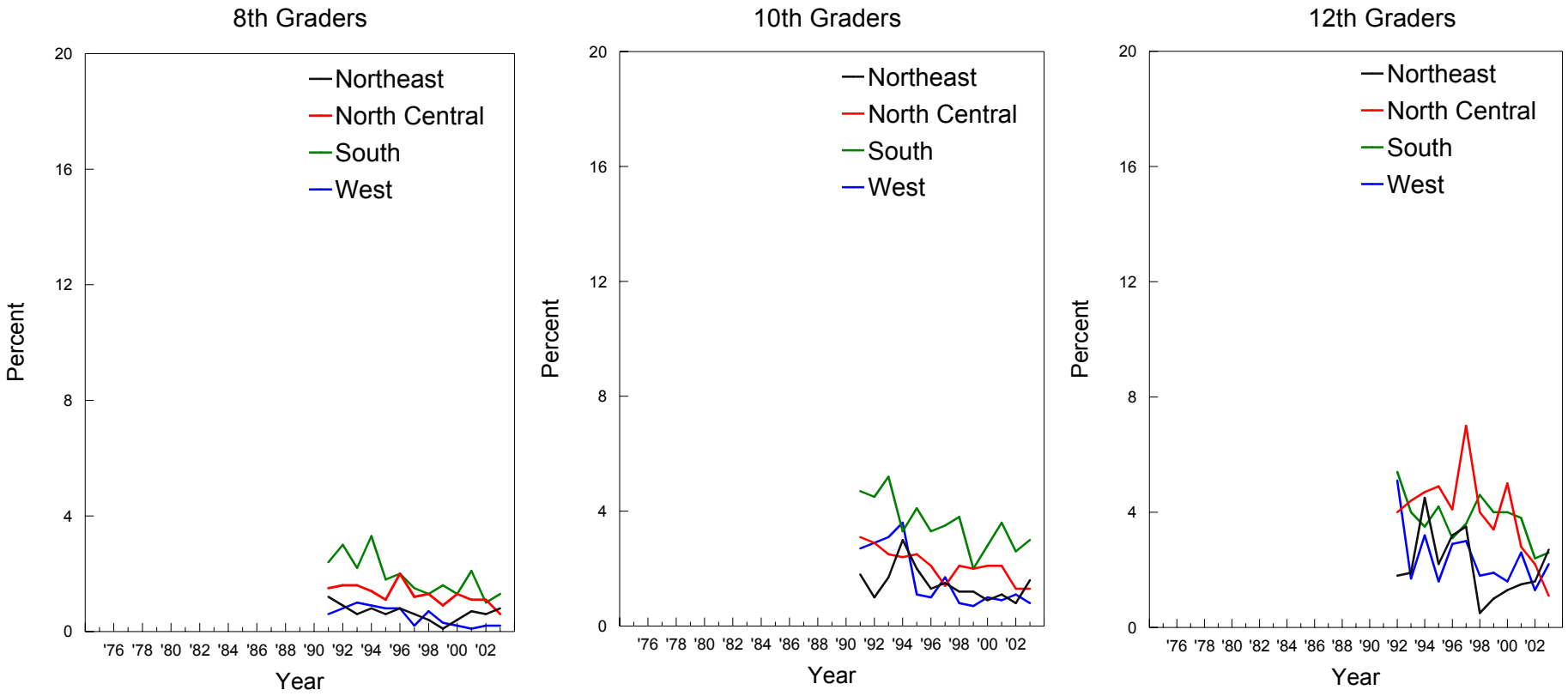
Smokeless Tobacco: Trends in Daily Prevalence by Gender



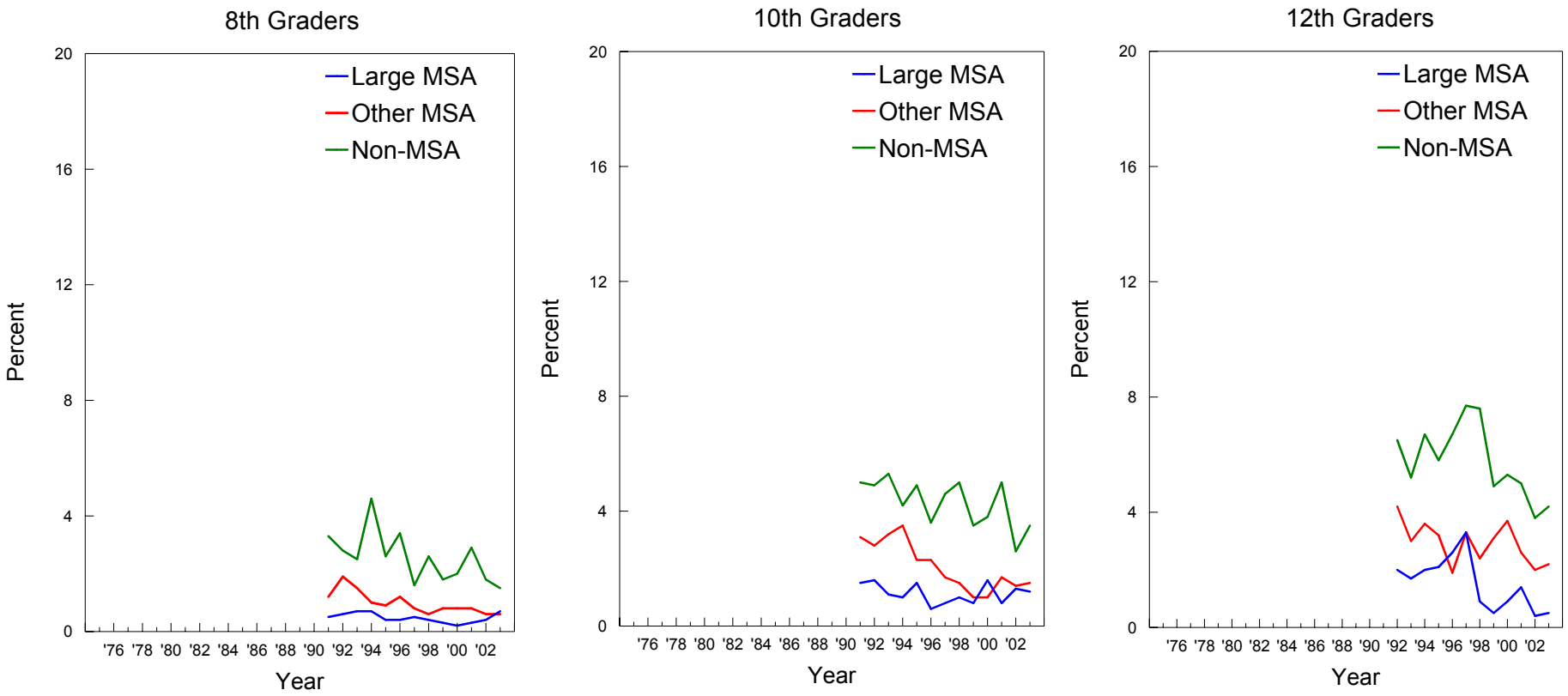
Smokeless Tobacco: Trends in Daily Prevalence by College Plans



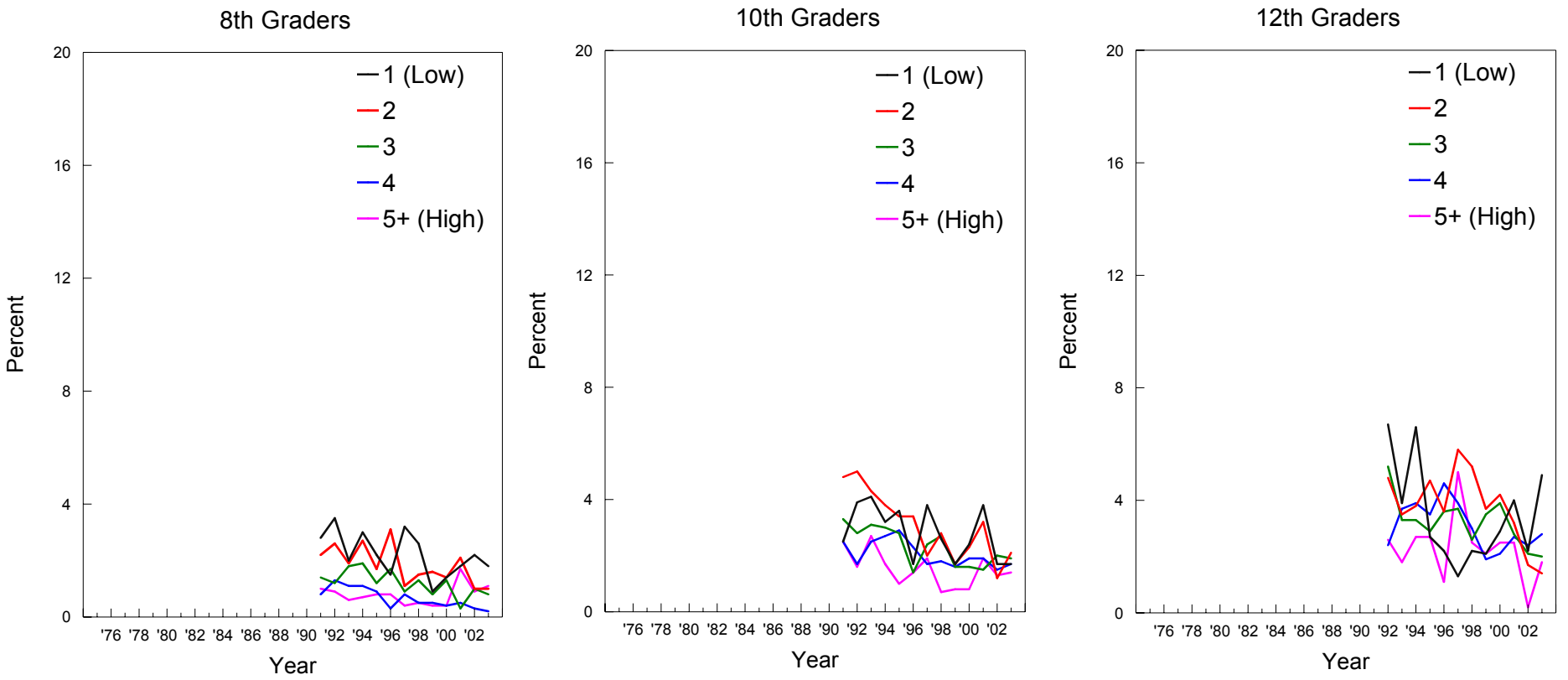
Smokeless Tobacco: Trends in Daily Prevalence by Region



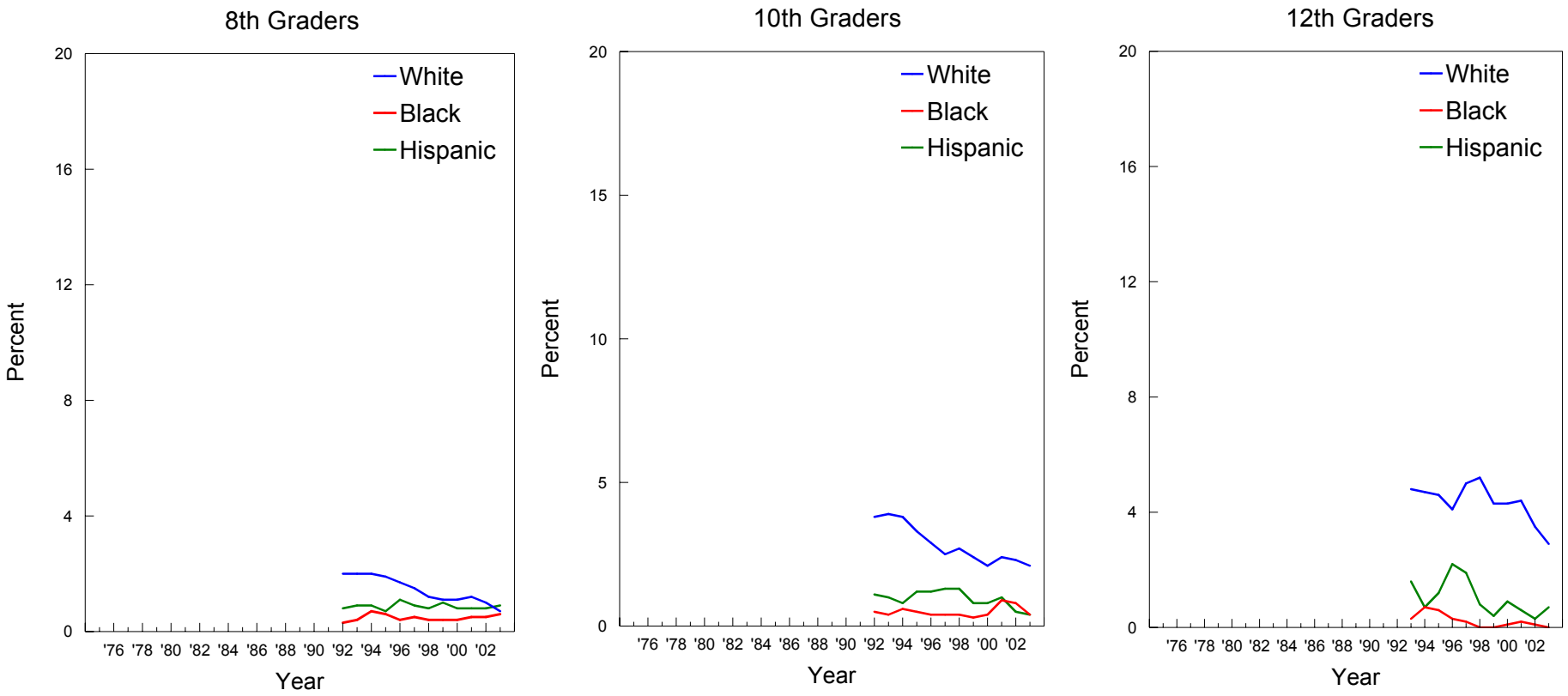
Smokeless Tobacco: Trends in Daily Prevalence by Population Density



Smokeless Tobacco: Trends in Daily Prevalence by Parents' Average Education

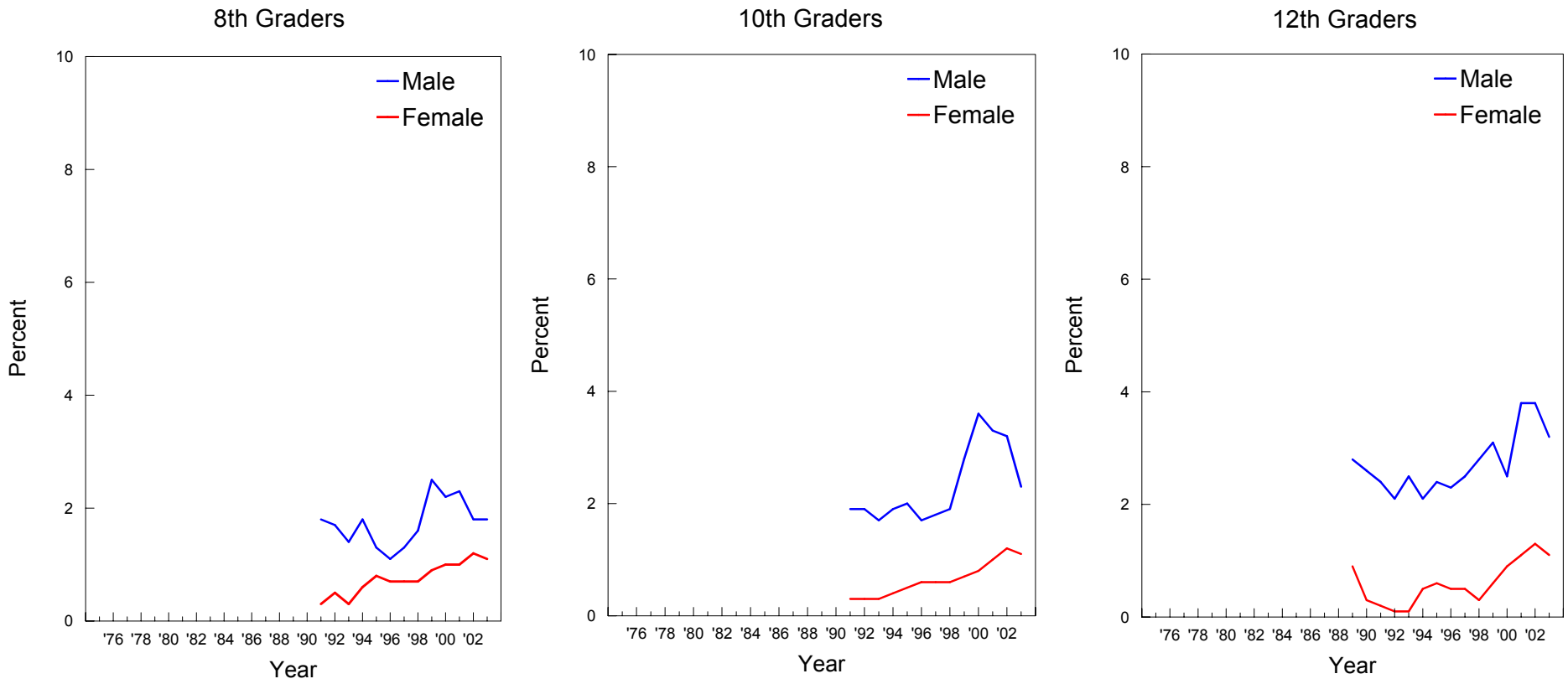


Smokeless Tobacco: Trends in Daily Prevalence by Race/Ethnicity*

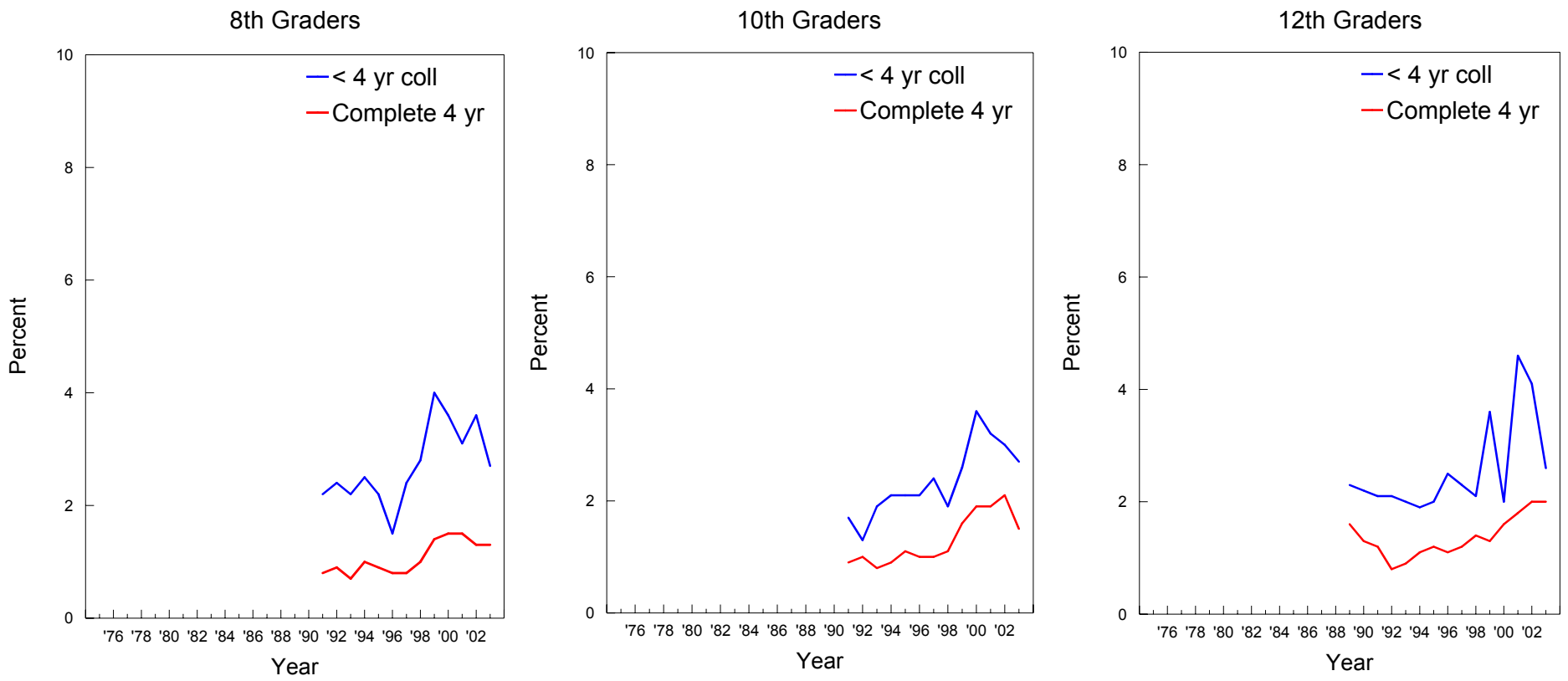


*These graphs contain two-year moving averages (i.e., the mean of the observation in the indicated year plus the corresponding observation from the previous year).

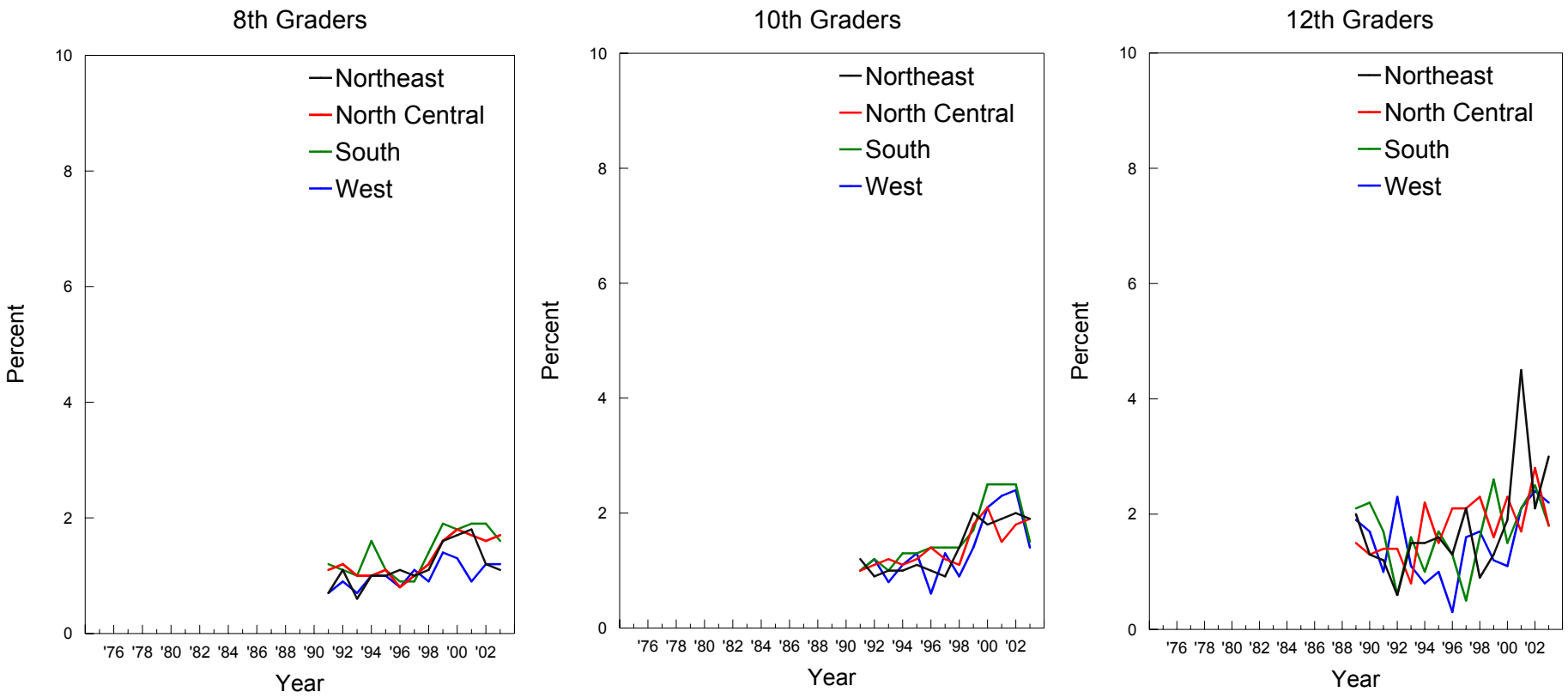
Steroids: Trends in Annual Prevalence by Gender



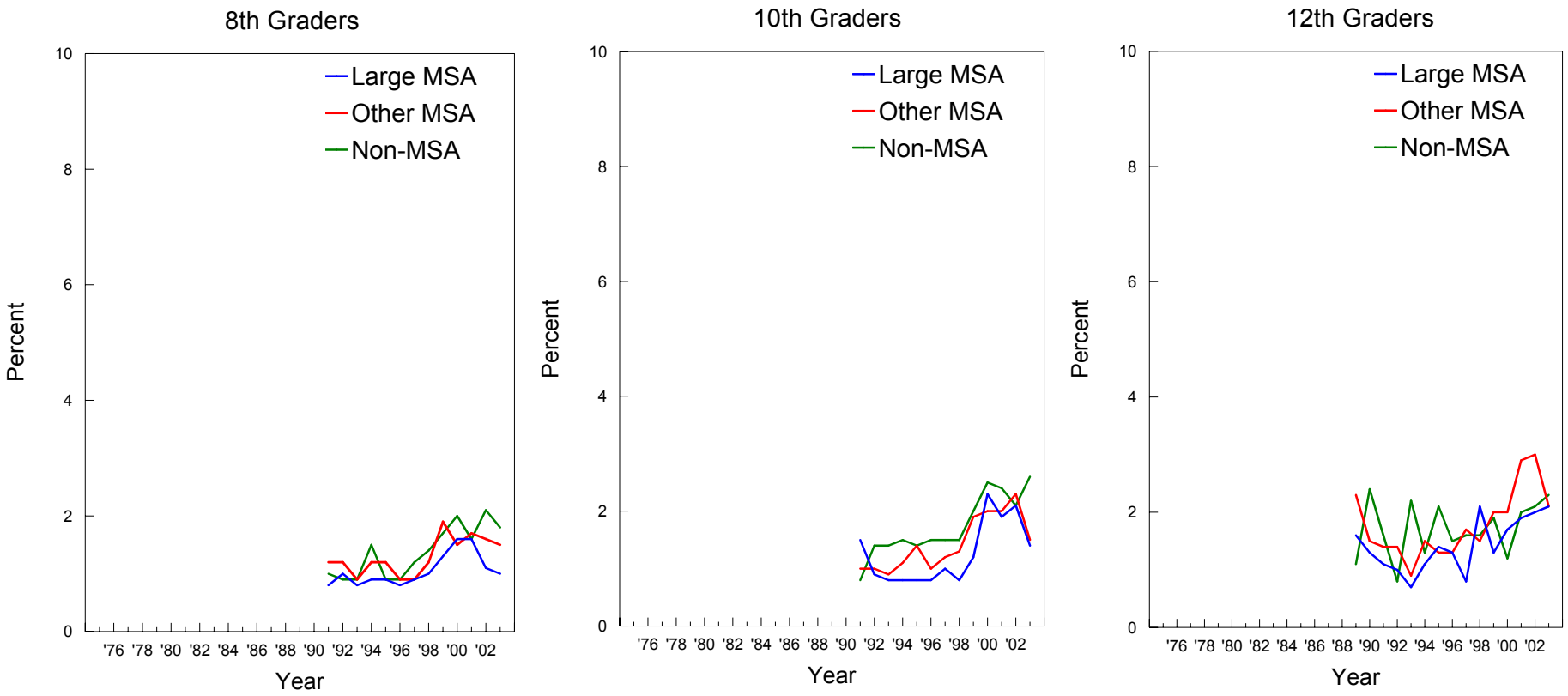
Steroids: Trends in Annual Prevalence by College Plans



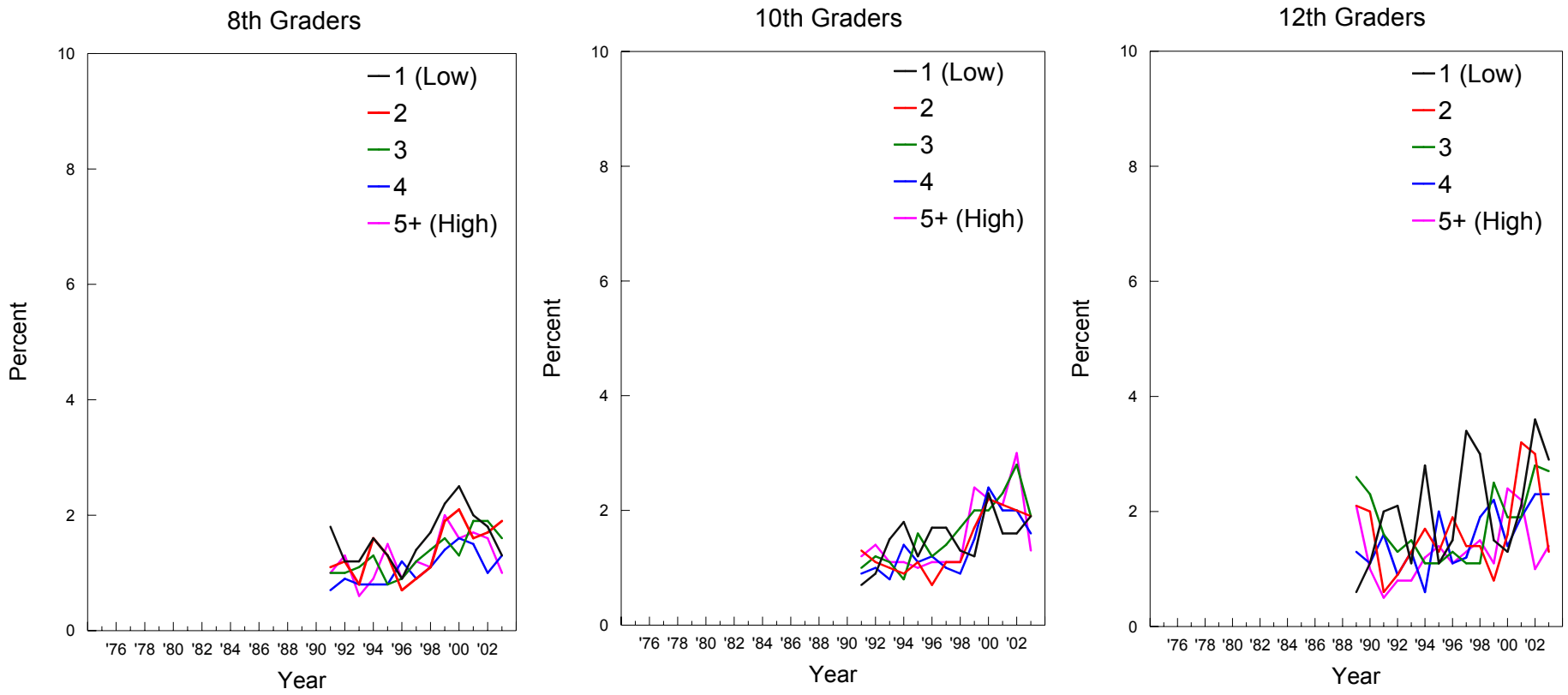
Steroids: Trends in Annual Prevalence by Region



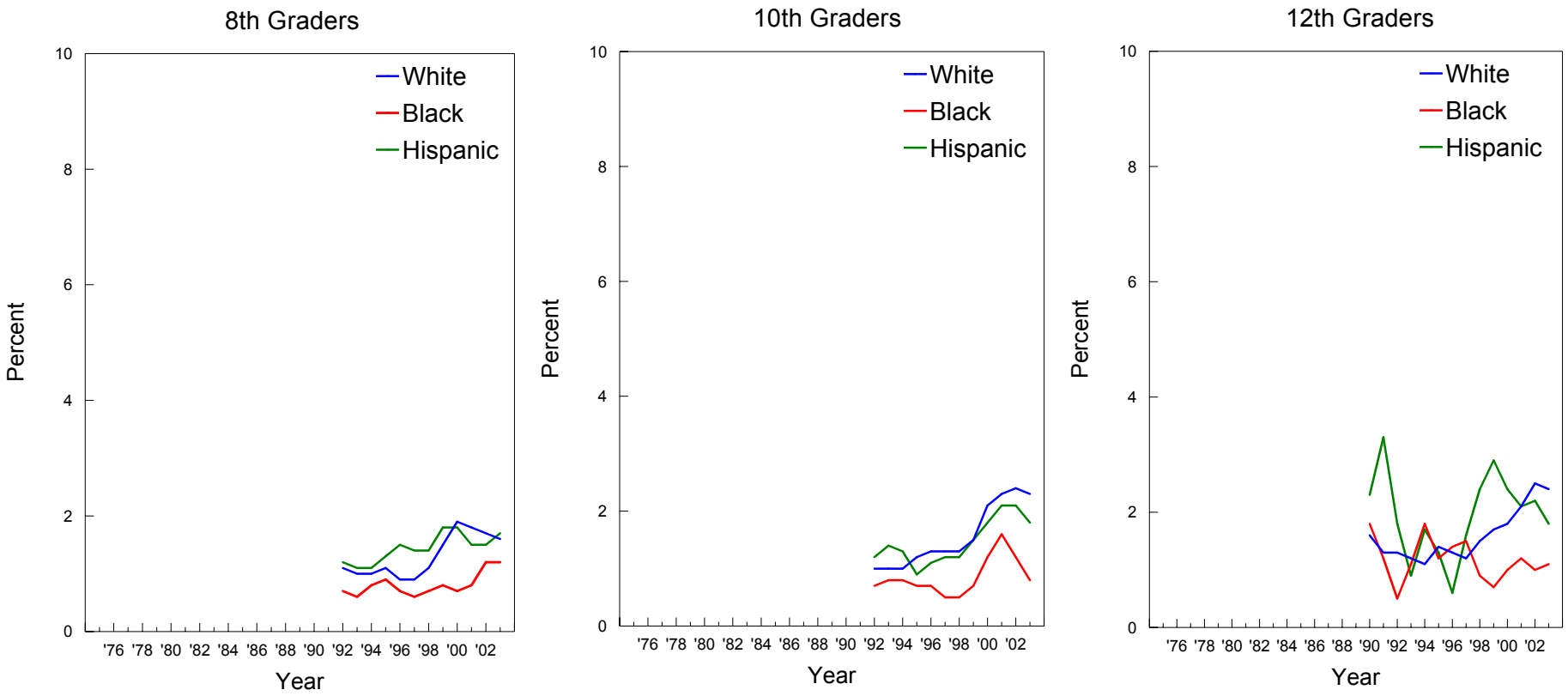
Steroids: Trends in Annual Prevalence by Population Density



Steroids: Trends in Annual Prevalence by Parents' Average Education



Steroids: Trends in Annual Prevalence by Race/Ethnicity*



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Appendix B

DEFINITION OF BACKGROUND AND DEMOGRAPHIC SUBGROUPS

Throughout this volume, data are presented for the total sample of 8th, 10th, and 12th graders. Data are also presented for many subgroups of students. The following are brief descriptions 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 of the study.

Gender: ***Male and female.*** Respondents with missing data on the question asking the respondent's gender are omitted from the data presented by gender.

College Plans: Respondents not answering the college plans question are omitted from both groupings. College plans groupings are defined as follows, based on respondent's response to the question about his or her expectation of graduating from a four-year college:

None or under 4 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 4 years. Respondents who indicate they "definitely will" or "probably will" graduate from a four-year college program.

Region: Region of the country in which the respondent's school is located. There are four mutually exclusive regions of the country based on Census categories, defined as follows:

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

North Central (Midwest). Census classifications of East North Central and West North Central states include 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 include 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 include Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Washington, Oregon, and California.

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, the other half of the sample 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; and after 1994, all samples were based on the 1990 Census.) The three levels of population density were defined in terms of Standard Metropolitan Statistical Area (SMSAs) designations through 1985, and then changed to the new Census Bureau classifications of Metropolitan Statistical Areas (MSAs), as described here:

Large MSAs. In the 1975-1985 samples these were the 12 largest Standard Metropolitan Statistical Areas (SMSA) as of the 1970 Census: New York, Los Angeles, Chicago, Philadelphia, Detroit, San Francisco, Washington, Boston, Pittsburgh, St. Louis, Baltimore, and Cleveland. From 1986 to 1994, the "large MSA" group consisted of the 16 largest MSAs as of the 1980 Census. These 16 MSAs include all of the MSAs mentioned above (except Cleveland) plus the MSAs of Dallas-Fort Worth, Houston, Nassau-Suffolk, Minneapolis-St. Paul, and Atlanta.

Beginning with the first-year schools in 1994, the new sample design was developed, based on the 1990 Census. In the 1990s sample only the eight largest MSAs are represented with certainty at all three grade levels; the 16 next largest MSAs containing a single large city 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 purpose of this split was to reduce the study's burden on each MSA.) 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-Hialeah, Newark, Denver, San Francisco, and Kansas City MO-KS.

Other MSAs. Includes all other Metropolitan Statistical Areas (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. Includes all areas not designated as Metropolitan Statistical Areas (MSAs)—in other words, they do not contain a town of at least 50,000 population. 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 was allowed on one of the two variables. The respondent is 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: A general question asks, "How do you describe yourself?"

White. Includes those respondents who describe themselves as White or Caucasian.

Black. Includes those respondents who in 1975-1990 describe themselves as Black or Afro-American or who, after 1990, describe themselves as Black or African American.

Hispanic. Includes 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.

Appendix D

SUPPLEMENTAL TABLES FOR SECONDARY SCHOOL STUDENTS: TRENDS BY SUBGROUP

Trend data for the population subgroups discussed in this volume (defined by gender, college plans, region, community size, level of parental education, and racial/ethnic distinctions) are presented here for the major classes of licit and illicit drugs. Due to the sheer quantity of information such trend tables generate, we have selected the prevalence periods that seem most useful for understanding differences by subgroup. For most drugs, the trends are given only for annual prevalence. Other prevalence rates are provided for alcohol, cigarettes, and smokeless tobacco.

The subgroups distinguished in these tables are the standard ones used throughout this volume and are operationally defined in Appendix B. The reader should note that *two-year moving averages* are given for the three racial/ethnic groups described in order to damp down random fluctuations in the trends for the minority groups, particularly among Hispanics. A footnote in each table describes the procedure.

For nearly all drugs there is one table presenting the subgroup trends for 8th- and 10th-grade students and a second table giving the longer-term trends for 12th-grade students. However, for two of the drugs—sedatives (barbiturates) and narcotics other than heroin—the 8th- and 10th-grade data have been omitted, as they are throughout the volume, because we are less certain about the validity of the answers provided by the younger students. Specifically, we believe that they often fail to omit substances that should be omitted (e.g., non-prescription substances). A few other drugs are simply not asked of 8th and 10th graders; thus only 12th-grade tables are presented.

Sample sizes should be taken into account when interpreting the importance of any changes observed, of course. They are provided in the last two pages of the appendix. However, the reader should be aware that the numbers provided in those tables assume that all respondents 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 of the bottom of each table will indicate if only a fraction of the sample received the question.

Graphic presentations of the trends presented in these tables for the various demographic subgroups may be found in Occasional Paper No. 60, which is on the study's Web site (http://monitoringthefuture.org) under "Publications."[117] This graphic presentation, which is printed in color to help distinguish the various subgroups, is published in electronic form only, due to the high cost of printing a document of this length in color. These graphic presentations are considerably easier to comprehend, so their use is recommended.

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[117]Johnston, L. D., O'Malley, P. M., Bachman, J. G., & Schulenberg, J. E. (2004*). Demographic subgroup trends for various licit and illicit drugs, 1975-2003*. (Monitoring the Future Occasional Paper No. 60) [On-line]. Ann Arbor, MI: Institute for Social Research. c. 336 pp.

List of 2003 Appendix D Tables

Substance	Table Number		Time Period		
	8th/10th	12th	Annual	30-Day	Daily
Any illicit drug	D-1	D-2	X		
Any illicit drug other than marijuana	D-3	D-4	X		
Marijuana	D-5	D-6	X		
Inhalants	D-7	D-8	X		
Hallucinogens	D-9	D-10	X		
LSD	D-11	D-12	X		
Hallucinogens other than LSD	D-13	D-14	X		
MDMA (ecstasy)	D-15	D-16	X		
Cocaine	D-17	D-18	X		
Crack	D-19	D-20	X		
Other cocaine	D-21	D-22	X		
Heroin	D-23	D-24	X		
Heroin with a needle	D-25	D-26	X		
Heroin without a needle	D-27	D-28	X		
Other narcotics	—	D-29	X		
OxyContin	D-30	D-31	X		
Vicodin	D-32	D-33	X		
Amphetamines	D-34	D-35	X		
Ritalin	D-36	D-37	X		
Methamphetamine	D-38	D-39	X		
Crystal methamphetamine (ice)	—	D-40	X		
Barbiturates	—	D-41	X		
Tranquilizers	D-42	D-43	X		
Rohypnol	D-44	D-45	X		
Alcohol	D-46	D-47		X	
Been drunk	D-48	D-49		X	
5+ drinks in a row	D-50	D-51			X
Beer	D-52	D-53		X	
5+ drinks in a row	D-54	D-55			X
Liquor	—	D-56		X	
5+ drinks in a row	—	D-57			X
Wine	—	D-58		X	
5+ drinks in a row	—	D-59			X
Wine coolers	D-60	D-61		X	
5+ drinks in a row	—	D-62			X
Cigarettes	D-63	D-64		X	
Daily	D-65	D-66			X
1/2 pack+/day	D-67	D-68			X
Smokeless tobacco	D-69	D-70		X	
Daily	D-71	D-72			X
Steroids	D-73	D-74	X		
Weighted Ns by subgroups	D-75/D-76	D-77			

TABLE D-1
Any Illicit Drug:[a] Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	-1.7s	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	-2.8s
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	-2.8ss	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	-2.7s
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	-0.8	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	-2.9s
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	-2.0	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	-2.8
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	-1.7s	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	-2.9s
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	-0.7	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	-2.6
North Central	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	-1.3	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	-4.9s
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	-2.0	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	+0.2
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	-2.8	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	-5.4s
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	-1.6	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	-2.5
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	-2.1	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	-4.5ss
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	-0.8	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	+0.7
Parental Education:[b]																												
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	-0.9	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	-0.5
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	-2.0	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	-3.0
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	-1.6	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	-2.2
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	-2.5s	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	-4.1s
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	-1.1	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	-1.5
Race (2-year average):[c]																												
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	-1.8	—	22.4	23.7	27.9	32.6	36.5	39.3	38.2	36.4	36.9	37.6	37.6	35.0	-2.6
Black	—	7.9	9.3	13.0	15.8	17.5	18.1	18.1	18.6	18.3	16.7	15.1	14.6	-0.5	—	10.8	11.9	18.5	23.6	27.3	30.2	28.9	28.4	29.7	30.5	28.5	27.3	-1.2
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	-2.0	—	23.6	26.3	30.3	34.3	40.0	41.3	38.1	38.4	39.3	38.8	36.2	33.8	-2.4

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]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 other narcotics and 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).

[b]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-2
Any Illicit Drug:[a,b] Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last twelve months

	Class of:																													'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
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	39.0	40.2	42.4	41.4	42.1	40.9	41.4	41.0	39.3	-1.7
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	41.5	43.4	44.1	45.2	45.0	43.4	43.8	43.5	41.3	-2.2
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	35.8	36.2	40.0	37.2	38.9	38.0	38.4	37.8	36.7	-1.1
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	44.1	46.2	48.8	47.3	47.9	45.1	46.2	46.2	46.8	+0.6
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	36.7	37.8	40.1	39.1	40.3	38.8	39.6	39.3	36.6	-2.6
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	41.7	44.6	47.7	46.2	42.5	46.2	47.4	45.7	43.7	-2.0
North Central	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	40.9	40.9	40.6	38.1	42.1	38.9	42.0	41.6	40.0	-1.6
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	36.4	37.6	38.8	40.5	40.8	35.3	37.3	38.1	34.8	-3.3
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	38.2	39.1	45.9	43.1	44.2	47.4	41.9	40.5	41.4	+0.9
Population Density:																														
Large	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	41.7	41.3	42.1	42.0	42.4	41.1	43.9	41.9	35.7	-6.2s
Other	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	39.0	42.3	44.2	42.1	43.3	42.6	41.0	42.4	42.7	+0.4
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	35.9	35.4	39.2	39.3	39.9	37.5	39.4	37.1	37.6	+0.5
Parental Education:[c] (Low)																														
1.0-2.0	—	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	37.7	36.6	40.3	38.9	40.9	41.3	38.8	35.3	35.8	+0.4
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	38.3	39.9	40.8	40.5	43.7	40.5	41.9	39.3	39.0	-0.3
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	38.8	40.4	42.0	42.9	42.9	41.6	42.7	43.2	41.3	-1.9
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	39.0	40.5	43.6	40.9	40.0	39.6	41.3	42.0	38.9	-3.1
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	40.7	40.6	44.0	41.8	42.3	41.1	40.1	40.6	36.5	-4.1
Race (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	39.0	40.8	42.8	44.0	43.3	42.8	43.1	43.6	42.8	-0.8
Black	—	—	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	29.6	32.4	33.0	32.3	32.8	32.7	31.7	30.4	28.3	-2.1
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	35.5	38.0	41.2	41.9	42.5	44.8	41.8	39.0	35.8	-3.2

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

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

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

[c]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-3
Any Illicit Drug Other Than Marijuana:[a] Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months

	8th Grade														10th Grade												
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001[b]	2002[b]	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001[b]	2002[b]	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	0.0	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	-2.0ss
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	-0.1	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	-2.1s
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	+0.1	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	-2.1s
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	+0.2	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	-3.3
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	-0.1	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	-1.9s
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	+1.3	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	-1.7
North Central	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	0.0	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	-2.2
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	-0.5	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	-1.1
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	-0.5	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	-3.0
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	-0.3	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	-3.5ss
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	-0.5	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	-2.3s
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	+1.2	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	+1.1
Parental Education:[c]																												
1.0-2.0 (Low)	12.9	12.9	14.4	15.6	18.0	15.5	14.8	17.3	16.0	15.8‡	14.3	13.0	14.1	+1.1	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	-2.0
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	+0.1	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	-1.6
3.5-4.0	8.7	10.1	10.6	11.8	14.2	14.5	12.5	11.2	11.3	10.6‡	11.7	9.0	9.0	-0.1	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	-1.6
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	-0.9	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	-2.5s
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	+0.4	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	-1.6
Race (2-year average):[d]																												
White	—	9.0	10.0	10.8	12.6	13.9	13.5	12.5	11.5	11.1	10.6‡	10.3[e]	9.3	-1.0	—	13.7	14.4	15.4	17.7	20.0	20.5	19.7	18.7	18.6	19.2‡	18.9[e]	17.2	-1.7
Black	—	4.9	5.0	5.9	5.7	5.3	4.7	4.0	4.1	3.8	3.9‡	4.4[e]	4.4	+0.1	—	4.3	4.6	5.4	5.4	4.5	4.8	4.7	4.5	4.2	4.7‡	5.7[e]	4.7	-0.9
Hispanic	—	12.2	13.7	15.2	15.3	14.7	13.6	13.5	14.5	13.9	12.2‡	11.9[e]	10.8	-1.1	—	11.8	13.7	16.1	16.9	18.8	19.1	17.5	17.9	17.8	15.8‡	15.7[e]	15.2	-0.5

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 of use estimates for the two most recent classes is due to rounding error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]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 other narcotics and 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).

[b]In 2001 the question text was changed in half of the questionnaire forms for each grade. "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.

[c]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

[e]The 2002 data comprise half of the 2001 sample data double-weighted and all of the 2002 sample data.

TABLE D-4
Any Illicit Drug Other Than Marijuana:[a,b] Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last twelve months

	Class of:																													'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001[c]	2002[c]	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
Total	26.2	25.4	26.0	27.1	28.2	30.4	34.0	30.1	28.4	28.0	27.4	25.9	24.1	21.1	20.0	17.9	16.2	14.9	17.1	18.0	19.4	19.8	20.7	20.2	20.7	20.4‡	21.6	20.9	19.8	-1.1
Gender:																														
Male	25.9	25.7	26.3	27.9	29.4	30.2	32.8	31.0	28.9	28.2	27.9	26.2	24.3	22.2	21.0	19.2	17.0	15.5	17.8	18.5	20.7	21.7	21.7	21.7	22.5	21.5‡	23.3	22.0	21.1	-0.9
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	17.3	16.8	18.8	18.0	18.5	18.6‡	19.0	19.0	17.9	-1.1
College Plans:																														
None or under 4 years	—	28.7	30.1	30.0	31.8	35.5	38.3	34.0	32.3	32.9	31.6	31.3	28.8	24.5	25.5	23.1	20.1	19.5	19.8	22.9	23.9	24.2	25.8	26.5	24.4	24.7‡	24.5	27.2	26.5	-0.6
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	17.5	17.9	18.4	17.8	19.4	18.5‡	19.9	19.0	17.4	-1.6
Region:																														
Northeast	26.0	26.1	27.8	30.7	32.0	32.1	38.0	33.5	31.2	33.8	32.9	29.5	25.5	20.2	19.2	17.1	15.6	14.7	18.6	17.2	20.2	22.9	24.1	20.7	19.5	21.7‡	22.4	21.5	19.3	-2.2
North Central	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	19.1	19.2	18.9	19.8	20.9	18.9‡	24.0	19.9	18.7	-1.3
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	19.0	18.6	19.8	20.3	21.2	19.0‡	18.6	21.3	19.4	-1.9
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	19.9	19.2	20.9	20.0	20.8	23.2‡	22.6	21.1	22.4	+1.3
Population Density:																														
Large	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	20.2	18.9	18.6	19.0	17.6	19.4‡	23.6	20.6	15.9	-4.6ss
Other	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	19.2	20.2	21.5	20.4	21.6	20.9‡	21.2	21.6	22.0	+0.4
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	18.7	19.8	21.2	21.3	22.4	20.7‡	20.3	20.2	20.9	+0.7
Parental Education:[d]																														
1.0-2.0	—	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	19.4	16.9	19.9	20.0	22.2	20.0‡	17.3	17.8	19.4	+1.6
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	19.4	19.7	19.4	20.1	21.0	19.9‡	20.9	20.3	19.6	-0.7
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	19.2	19.8	20.4	21.0	21.9	20.5‡	24.5	22.0	21.7	-0.3
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	19.4	19.3	21.0	19.1	19.3	20.1‡	20.1	21.2	18.5	-2.7
5.5-6.0	—	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	18.3	20.2	21.7	18.9	19.4	20.3‡	18.7	19.8	17.0	-2.8
Race (2-year average):[e]																														
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	20.3	21.2	22.3	23.1	22.9	22.7	23.0‡	24.1[f]	23.0	-1.0
Black	—	—	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	6.9	6.0	6.4	7.1	6.8	6.4	6.3‡	6.0[f]	6.3	+0.3
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	17.9	19.7	18.9	17.5	18.5	21.2	18.2‡	16.1[f]	16.0	-0.2

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 of use estimates for the two most recent classes is due to rounding error. See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

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

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

[c]In 2001 the question text was changed in 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.

[d]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

[f]The 2002 data comprise half of the 2001 sample data double-weighted and all of the 2002 sample data.

TABLE D-5
Marijuana: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	-1.9ss	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	-2.1
Gender:																												
Male	7.3	7.4	10.5	15.1	17.7	19.6	19.2	18.0	18.1	16.7	18.1	17.0	13.9	-3.2sss	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	-2.3
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	-0.9	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	-2.0
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	-1.9	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	-2.0
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	-2.0sss	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	-2.2s
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	-1.4	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	-2.2
North Central	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	-2.0	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	-4.0
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	-1.8	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	+0.7
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	-2.4	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	-4.6
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	-1.2	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	-1.9
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	-2.3s	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	-3.8s
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	-1.9	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	+1.3
Parental Education:[a]																												
1.0-2.0 (Low)	13.2	12.7	13.6	18.7	23.0	20.2	24.8	25.0	25.8	26.2	26.0	24.2	22.5	-1.7	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	+0.2
2.5-3.0	7.0	7.7	10.7	14.5	17.9	20.6	20.3	20.0	20.8	19.4	19.5	18.7	16.5	-2.3	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	-2.9
3.5-4.0	6.2	7.0	9.7	13.2	17.2	20.2	19.5	17.7	16.3	15.9	16.7	15.4	13.7	-1.7	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	-0.7
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	-2.5s	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	-3.6s
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	-1.8	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	-1.5
Race (2-year average):[b]																												
White	—	6.4	7.8	10.0	13.5	16.7	17.8	16.7	15.4	14.9	14.7	14.5	13.0	-1.4	—	17.0	18.0	22.6	27.7	32.0	35.3	34.2	32.5	32.6	32.9	32.7	30.6	-2.2
Black	—	4.1	5.7	8.9	11.9	14.0	15.3	16.0	16.3	16.1	14.6	12.7	12.6	-0.1	—	7.6	8.7	15.3	20.9	25.7	28.4	26.9	26.3	27.6	28.7	26.5	25.1	-1.5
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	-2.0	—	18.9	21.3	25.1	29.2	34.6	36.8	34.4	34.0	34.8	34.9	31.6	28.8	-2.8

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-6
Marijuana: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last twelve months

	Class of:																													'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
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	34.7	35.8	38.5	37.5	37.8	36.5	37.0	36.2	34.9	-1.4
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	38.1	39.4	40.9	41.7	41.4	39.2	40.1	39.9	37.8	-2.1
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	30.6	31.6	35.5	33.0	34.1	33.4	33.6	32.4	31.6	-0.8
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	39.0	41.7	44.6	43.0	43.2	40.3	41.5	40.9	42.1	+1.1
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	32.6	33.4	36.4	35.2	35.9	34.6	35.3	34.7	32.3	-2.3
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	37.7	40.0	43.5	43.0	39.0	42.3	43.8	41.9	40.5	-1.4
North Central	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	36.9	36.9	36.5	33.8	38.0	34.5	36.9	37.5	36.5	-1.0
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	31.8	32.8	35.0	36.5	36.0	30.7	32.4	32.6	29.4	-3.2
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	33.8	35.6	42.6	39.0	39.8	43.1	38.4	35.2	36.2	+1.0
Population Density:																														
Large	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	37.5	37.2	38.3	38.4	38.7	37.1	39.2	37.7	32.3	-5.4s
Other	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	34.9	38.6	40.5	38.8	39.1	38.1	36.7	38.0	38.1	+0.1
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	31.0	29.6	34.9	33.5	34.7	32.9	35.1	30.8	32.2	+1.4
Parental Education:[a] (Low)																														
1.0-2.0	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	30.9	31.3	34.8	34.2	35.5	36.5	33.9	30.8	31.4	+0.6
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	33.8	35.1	37.4	36.1	38.6	35.1	37.0	34.9	34.2	-0.7
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	34.2	36.1	38.1	39.0	38.6	36.8	38.4	38.5	36.2	-2.3
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	35.0	36.6	40.1	37.4	35.9	35.8	37.4	37.0	35.4	-1.6
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	37.5	36.7	39.7	38.3	39.2	38.0	35.2	36.1	32.6	-3.5
Race (2-year average):[b]																														
White	—	—	46.8	50.1	51.8	51.2	49.1	47.1	44.6	42.0	41.6	41.4	39.7	37.6	34.5	31.6	28.2	24.9	25.9	30.2	34.2	36.4	38.7	39.9	39.1	38.2	38.5	38.7	37.9	-0.8
Black	—	—	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	26.8	30.2	30.4	30.0	30.4	30.0	29.0	27.3	26.3	-1.0
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	29.7	32.3	36.4	37.2	37.8	40.5	37.6	34.6	31.1	-3.5

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-7
Inhalants: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*1750*	*1860*	*1830*	*1730*	*1750*	*1780*	*1860*	*1810*	*1670*	*1670*	*1620*	*1510*	*1650*		*1480*	*1480*	*1530*	*1580*	*1700*	*1560*	*1550*	*1500*	*1360*	*1430*	*1400*	*1430*	*1580*	
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	+1.1s	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	-0.3
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	+0.1	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	-0.2
Female	9.0	9.8	11.9	12.2	14.0	14.1	12.9	11.6	11.1	9.9	9.9	7.8	9.6	+1.8s	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	-0.4
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	+2.0	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	-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	+0.9	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	-0.4
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	+2.1	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	-0.1
North Central	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	+1.5	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	+0.2
South	8.9	9.1	10.0	11.3	12.1	11.3	11.6	11.3	9.9	8.4	9.5	8.4	7.9	-0.5	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	-0.8
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	+2.5s	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	-0.7
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	+0.9	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	-0.3
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	+0.6	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	-0.3
Non-MSA	9.1	8.6	8.5	9.3	12.3	11.0	13.9	14.0	12.3	10.9	10.4	7.8	10.1	+2.3s	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	-0.3
Parental Education:[a]																												
1.0-2.0 (Low)	12.0	11.4	11.5	12.4	13.0	11.3	12.1	14.4	12.9	13.1	10.7	10.3	10.6	+0.2	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	+0.2
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	+1.8	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	+0.3
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	+1.4	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	-0.5
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	+0.1	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	-0.5
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	+0.3	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	-0.8
Race (2-year average):[b]																												
White	—	10.1	11.3	12.4	13.8	14.6	14.1	13.3	12.1	10.9	10.1	9.1	8.8	-0.3	—	8.3	8.8	9.6	10.6	11.0	10.4	9.6	8.9	8.4	7.9	7.1	6.6	-0.6
Black	—	4.4	4.6	5.3	5.0	4.2	3.8	4.2	4.2	4.3	4.8	5.0	4.9	-0.1	—	3.6	3.7	3.3	2.8	2.3	2.3	2.4	2.0	2.0	2.1	2.4	2.0	-0.4
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	-0.3	—	6.4	8.3	9.0	8.5	8.2	7.9	7.6	7.3	6.3	5.9	4.8	4.8	0.0

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-8
Inhalants:[a] Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last twelve months

	Class of:																													'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
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	8.0	7.6	6.7	6.2	5.6	5.9	4.5	4.5	3.9	-0.6
Adjusted[b]	—	—	—	—	8.9	7.9	6.1	6.6	6.2	7.2	7.5	8.9	8.1	7.1	6.9	7.5	6.9	6.4	7.4	8.2	8.4	8.5	7.3	7.1	6.0	6.2	4.9	4.9	4.5	-0.5
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	9.9	9.1	8.3	7.5	6.5	6.8	5.5	5.8	5.2	-0.7
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	6.2	6.1	5.2	5.1	4.9	5.1	3.5	3.3	2.9	-0.5
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	9.7	8.2	8.0	7.9	6.5	6.7	6.6	6.3	5.1	-1.2
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	7.4	7.3	6.5	5.7	5.4	5.5	3.9	4.2	3.5	-0.8
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	10.3	10.8	9.4	8.0	6.2	6.3	5.7	5.4	5.1	-0.2
North Central	—	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	8.6	7.6	6.9	7.6	6.3	5.5	5.0	5.6	3.7	-1.9
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	7.0	6.5	5.6	5.1	5.2	5.5	3.4	4.1	3.5	-0.6
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	6.7	6.0	5.4	4.7	4.9	6.7	4.8	3.2	3.6	+0.5
Population Density:																														
Large	—	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	8.5	7.8	5.9	5.5	4.8	6.3	4.4	4.4	3.5	-0.9
Other	—	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	7.8	7.9	6.5	6.1	5.3	4.9	4.3	4.4	4.4	-0.1
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	7.8	7.0	8.1	7.4	6.9	7.2	5.2	4.8	3.7	-1.2
Parental Education:[c] (Low)																														
1.0-2.0	—	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	7.5	5.8	5.4	6.3	4.8	4.0	3.2	5.7	3.4	-2.3
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	8.0	7.9	6.3	6.0	5.4	5.2	5.7	4.3	3.8	-0.5
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	6.7	7.8	7.1	7.3	6.1	6.1	4.2	4.5	3.9	-0.6
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	8.9	7.4	7.9	5.3	5.6	5.9	3.8	4.7	4.4	-0.2
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	9.7	8.5	6.0	6.2	6.1	7.5	5.8	4.6	4.0	-0.6
Race (2-year average):[d]																														
White	—	—	3.6	4.3	5.1	5.3	4.7	4.7	4.8	5.1	5.9	6.5	7.3	7.6	7.0	7.2	7.6	7.2	7.6	8.6	9.1	9.0	8.6	7.9	7.0	6.4	5.9	5.2	4.9	-0.3
Black	—	—	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	2.6	2.2	1.9	1.7	1.4	1.9	2.2	1.9	1.5	-0.4
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	5.8	5.9	4.7	4.5	5.5	6.3	4.5	3.4	2.7	-0.6

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.
Data based on four of five forms in 1976–88; N is four-fifths of N indicated in Table D-77. Data based on five of six forms in 1989–98; N is five-sixths of N indicated in Table D-77. Data based on three of six forms beginning in 1999; N is one-half of N indicated in Table D-77.

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

[a]All data are unadjusted for underreporting of amyl and butyl nitrites, except where otherwise noted.

[b]Adjusted for underreporting of amyl and butyl nitrites. See text for details.

[c]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-9
Hallucinogens: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001[a]	2002[a]	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001[a]	2002[a]	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	0.0	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	-0.6
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	-0.1	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	-0.7
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	+0.1	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	-0.5
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	+0.9	7.5	7.5	9.1	10.4	12.5	14.5	13.6	14.2	14.3	12.3‡	5.0	10.3	8.9	-1.4
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	-0.2	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	-0.6
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	+1.0	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	-0.2
North Central	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	-0.2	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	-1.6
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	-0.2	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	-0.1
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	-0.3	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	-0.9
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	+0.2	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	-1.5
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	0.0	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	-0.5
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	-0.3	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	+0.1
Parental Education:[b]																												
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	-0.1	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	+1.2
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	0.0	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	-0.5
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	0.0	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	-0.8
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	-0.1	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	-0.5
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	+0.3	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	-1.8s
Race (2-year average):[c]																												
White	—	2.2	2.6	2.8	3.6	4.5	4.5	3.9	3.2	3.1	2.9‡	2.7[d]	2.8	+0.1	—	4.9	5.1	5.6	7.1	8.6	8.9	8.4	8.2	7.6	6.6‡	5.6[d]	5.3	-0.3
Black	—	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.6	0.7	0.7‡	0.7[d]	0.9	+0.1	—	0.2	0.6	1.1	1.2	0.9	1.0	1.1	1.0	1.0	1.3‡	1.4[d]	1.0	-0.4
Hispanic	—	3.8	4.1	4.0	4.0	4.1	4.2	4.6	4.5	4.0	3.4‡	3.6[d]	2.9	-0.7	—	3.6	4.5	5.7	6.3	6.6	7.3	7.3	6.4	5.2	4.4‡	4.5[d]	3.9	-0.7

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 of use estimates for the two most recent classes is due to rounding error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]In 2001 the question text was changed in half of the questionnaire forms for each grade. "Other psychedelics" was changed to "other hallucinogens" and "shrooms" was added to the list of examples. The 2001 estimates 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.

[b]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

[d]The 2002 data comprise half of the 2001 sample data double-weighted and all of the 2002 sample data.

TABLE D-10
Hallucinogens:[a] Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last twelve months

	Class of:																													'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001[b]	2002[b]	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
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	9.3	10.1	9.8	9.0	9.4	8.1‡	9.1	6.6	5.9	-0.7
Adjusted[c]	—	—	—	—	11.8	10.4	10.1	9.0	8.3	7.3	7.6	7.6	6.7	5.8	6.2	6.0	6.1	6.2	7.8	7.8	9.7	10.7	10.0	9.2	9.8	8.7‡	9.7	7.2	6.5	-0.7
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	11.9	12.4	12.0	11.0	11.4	9.6‡	11.1	8.4	7.8	-0.6
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	6.3	7.3	7.4	6.8	7.4	6.3‡	6.8	4.7	3.8	-0.8
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	11.9	12.1	11.3	12.0	10.5	10.3‡	10.4	9.8	8.2	-1.7
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	8.2	9.0	9.0	7.8	8.7	7.0‡	8.0	5.5	5.0	-0.6
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	10.1	13.3	13.9	10.7	9.8	9.3‡	9.8	9.1	7.8	-1.3
North Central	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	9.2	8.8	7.6	8.4	9.8	7.0‡	11.4	6.4	5.4	-1.1
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	8.8	8.9	9.2	8.5	8.6	6.9‡	5.8	5.6	4.9	-0.7
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	9.6	10.5	9.5	9.1	10.0	10.5‡	10.8	6.2	6.3	+0.1
Population Density:																														
Large	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	11.0	10.5	8.8	8.7	8.4	8.9‡	1.5	6.8	4.4	-2.4ss
Other	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	9.5	11.4	11.2	9.9	10.4	8.3‡	8.7	7.2	7.2	0.0
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	7.0	7.4	8.3	7.4	8.8	7.0‡	7.3	5.2	5.5	+0.3
Parental Education:[d]																														
1.0-2.0	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	7.2	7.4	7.3	7.9	9.0	7.0‡	6.3	5.1	5.3	+0.3
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	8.7	8.8	8.5	8.8	8.6	7.4‡	9.1	6.6	4.9	-1.7s
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	9.5	10.3	9.9	9.5	10.6	8.2‡	9.4	7.1	6.4	-0.7
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	9.6	10.5	10.4	8.6	9.3	7.7‡	8.6	6.7	6.5	-0.1
5.5-6.0	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	9.5	11.4	11.6	9.4	8.4	9.6‡	8.8	5.9	5.3	-0.6
Race (2-year average):[e]																														
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	9.5	10.8	11.6	11.3	10.7	9.9	9.0‡	8.4[f]	7.2	-1.2
Black	—	—	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	1.2	1.7	1.9	1.4	1.2	1.6	1.4‡	1.2[f]	1.3	+0.2
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	7.1	8.3	7.3	6.8	7.9	9.6	7.8‡	6.0[f]	4.6	-1.4

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 of use estimates for the two most recent classes is due to rounding error. See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]All data are unadjusted for underreporting of PCP, unless otherwise indicated.

[b]In 2001 the question text was changed in 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.

[c]Adjusted for underreporting of PCP. See text for details.

[d]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

[f]The 2002 data comprise half of the 2001 sample data double-weighted and all of the 2002 sample data.

TABLE D-11
LSD: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*1750*	*1860*	*1830*	*1730*	*1750*	*1780*	*1860*	*1810*	*1670*	*1670*	*1620*	*1510*	*1650*		*1480*	*1480*	*1530*	*1580*	*1700*	*1560*	*1550*	*1500*	*1360*	*1430*	*1400*	*1430*	*1580*	
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	-0.2	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	-0.9ss
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	-0.4	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	-1.2ss
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	-0.1	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	-0.5
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	-1.4	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	-1.6
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	-0.1	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	-0.8ss
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	+0.5	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	-0.4
North Central	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	-0.6	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	-1.0
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	-0.5	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	-0.6
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	0.0	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	-1.5s
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	0.0	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	-1.3s
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	-0.2	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	-1.0s
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	-0.5	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	0.0
Parental Education:[a]																												
1.0-2.0 (Low)	3.5	3.1	3.1	2.8	4.6	4.4	4.7	4.4	3.7	4.9	4.1	3.4	2.3	-1.0	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	+1.0
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	-0.6	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	-0.9
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	+0.1	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	-1.1s
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	-0.1	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	-0.9s
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	-0.1	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	-1.2
Race (2-year average):[b]																												
White	—	1.9	2.3	2.5	3.1	3.9	3.9	3.2	2.6	2.6	2.6	2.0	1.5	-0.6	—	4.6	4.6	5.0	6.4	7.7	7.9	7.3	7.0	6.5	5.2	3.8	2.4	-1.4ss
Black	—	0.5	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.6	+0.2	—	0.2	0.5	0.9	1.0	0.8	0.9	1.0	0.9	0.9	0.9	0.6	0.4	-0.2
Hispanic	—	3.3	3.7	3.6	3.3	3.5	3.9	4.2	3.9	3.5	3.2	2.4	1.7	-0.7	—	3.2	4.1	5.0	5.7	6.1	6.7	6.6	5.6	4.6	3.7	2.9	2.4	-0.5

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-12
LSD: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last twelve months

	Class of:																													'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
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	8.4	8.8	8.4	7.6	8.1	6.6	6.6	3.5	1.9	-1.6sss
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	10.7	10.9	10.3	9.3	10.0	7.6	7.9	4.4	2.5	-2.0sss
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	5.8	6.5	6.2	5.7	6.1	5.3	5.0	2.3	1.2	-1.2ss
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	11.2	11.4	10.3	10.9	9.4	8.7	8.2	5.7	3.0	-2.7sss
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	7.3	7.7	7.4	6.3	7.3	5.6	5.7	2.7	1.4	-1.3sss
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	8.8	11.9	11.8	8.2	7.8	7.1	6.7	5.4	2.4	-2.9ss
North Central	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	8.3	7.7	7.0	7.6	9.1	5.9	8.6	3.7	1.8	-1.9s
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	8.1	7.9	8.1	7.4	7.7	6.0	4.7	3.1	1.9	-1.2s
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	8.5	8.8	6.9	7.1	7.7	7.9	6.6	2.1	1.4	-0.7
Population Density:																														
Large	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	9.7	9.0	7.7	7.2	6.8	6.7	7.7	3.3	1.5	-1.8ss
Other	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	8.7	10.0	9.3	8.4	9.2	6.9	6.4	4.0	2.2	-1.7ss
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	6.5	6.5	7.3	6.1	7.4	5.9	5.6	2.7	1.7	-0.9
Parental Education:[a] (Low)																														
1.0-2.0	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	6.6	6.7	6.8	6.8	8.6	5.6	5.4	2.4	1.5	-0.9
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	8.1	8.2	7.3	7.8	7.6	6.4	6.7	3.4	1.9	-1.5ss
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	8.6	9.3	8.5	8.2	9.0	6.7	6.3	4.0	1.7	-2.2sss
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	8.6	8.7	8.6	6.5	8.0	6.0	6.7	3.1	1.7	-1.4ss
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	8.3	9.2	9.5	7.3	6.4	7.0	5.6	2.8	1.7	-1.1
Race (2-year average):[b]																														
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	8.6	9.7	10.1	9.5	9.1	8.3	7.5	5.8	3.0	-2.9sss
Black	—	—	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	1.0	1.3	1.6	1.1	0.8	1.3	1.3	0.8	0.8	0.0
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	6.4	7.4	6.3	5.9	7.0	7.6	5.8	3.8	1.8	-2.0

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-13
Hallucinogens Other Than LSD: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001[a]	2002[a]	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001[a]	2002[a]	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	+0.1	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	-0.5
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	-0.1	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	-0.3
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	+0.1	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	-0.6
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	+1.1	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	-1.5
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	-0.1	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	-0.4
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	+0.7	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	-0.2
North Central	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	+0.1	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	-1.4s
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	0.0	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	+0.1
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	-0.3	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	-0.6
Population Density:																												
Large MSA	0.7	0.8	0.7	1.6	1.6	1.8	1.4	1.3	1.1	1.2‡	1.9	1.6	1.6	+0.1	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	-1.2s
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	+0.2	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	-0.1
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	0.0	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	-0.1
Parental Education:[b]																												
1.0-2.0 (Low)	1.5	1.8	1.4	1.6	2.4	2.2	2.6	2.7	2.6	2.5‡	5.0	3.4	3.5	+0.1	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	+0.8
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	+0.2	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	0.0
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	+0.3	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	-0.7
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	-0.1	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	-0.3
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	+0.1	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	-1.6s
Race (2-year average):[c]																												
White	—	0.9	1.0	1.2	1.7	2.1	2.1	1.8	1.6	1.6	1.4‡	1.5[d]	2.3	+0.7s	—	1.5	1.8	2.3	2.8	3.4	3.9	4.0	4.0	3.8	3.4‡	4.0[d]	4.7	+0.7
Black	—	0.4	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3‡	0.4[d]	0.6	+0.2	—	0.1	0.4	0.7	0.7	0.4	0.3	0.4	0.5	0.6	1.1‡	1.3[d]	0.9	-0.4
Hispanic	—	1.5	1.5	1.5	1.8	2.1	2.0	2.2	2.2	1.8	1.2‡	1.8[d]	2.2	+0.4	—	1.3	1.5	1.9	2.0	2.1	2.4	2.8	2.6	2.0	1.6‡	2.5[d]	2.9	+0.4

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 of use estimates for the two most recent classes is due to rounding error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]In 2001 the question text was changed in half of the questionnaire forms for each grade. "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.

[b]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

[d]The 2002 data comprise half of the 2001 sample data double-weighted and all of the 2002 sample data.

TABLE D-14
Hallucinogens Other Than LSD: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last twelve months

	Class of:																												'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001[a]	2002[a]	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
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	3.8	4.4	4.6	4.6	4.3	4.4‡	5.9	5.4	5.4	0.0
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	5.3	5.7	5.9	6.0	5.4	5.8‡	7.2	7.2	7.2	0.0
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	2.1	2.8	3.2	3.0	3.1	2.9‡	4.2	3.5	3.4	-0.1
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	4.4	5.1	4.7	6.1	4.4	5.6‡	7.3	7.9	7.3	-0.6
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	3.4	4.0	4.4	3.9	4.0	3.8‡	5.0	4.6	4.5	-0.1
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	5.3	6.1	6.6	6.3	5.5	5.0‡	6.9	7.5	7.3	-0.2
North Central	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	3.2	3.5	2.8	4.1	3.7	3.6‡	6.9	5.0	4.7	-0.3
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	3.1	3.6	4.0	3.5	3.3	3.3‡	3.1	4.5	4.3	-0.3
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	4.5	5.4	6.1	5.5	5.7	6.9‡	8.0	5.6	6.0	+0.4
Population Density:																														
Large	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	4.9	5.2	4.0	4.4	4.5	5.2‡	7.6	5.9	3.9	-1.9ss
Other	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	3.7	4.7	5.4	5.1	4.2	4.3‡	5.4	5.8	6.5	+0.8
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	2.7	3.1	3.6	3.7	4.2	3.8‡	4.8	4.3	5.1	+0.8
Parental Education:[b] (Low)																														
1.0-2.0	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	2.7	3.5	2.7	3.7	2.2	3.8‡	3.8	4.3	4.7	+0.5
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	3.4	3.0	3.5	3.9	3.3	3.6‡	5.4	5.4	4.3	-1.1
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	3.6	4.0	4.8	4.6	5.1	4.2‡	6.1	5.6	5.9	+0.3
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	4.2	5.2	5.3	5.0	4.4	4.6‡	5.5	5.8	6.0	+0.1
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	4.1	5.9	5.9	5.4	4.7	5.8‡	6.6	5.1	4.8	-0.3
Race (2-year average):[c]																														
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	3.8	4.4	5.2	5.6	5.2	4.8	4.7‡	5.4[d]	6.3	+0.8
Black	—	—	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	0.8	0.8	0.7	0.6	0.6	1.0	0.9‡	0.9[d]	0.9	0.0
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	2.6	3.5	3.1	2.7	3.0	4.6	4.8‡	4.1[d]	4.1	0.0

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 of use estimates for the two most recent classes is due to rounding error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]In 2001 the question text was changed in 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.

[b]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

[d]The 2002 data comprise half of the 2001 sample data double-weighted and all of the 2002 sample data.

TABLE D-15
MDMA (Ecstasy): Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months

	8th Grade										10th Grade									
	1991–95	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991–95	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	—	*1780*	*1860*	*1810*	*1670*	*1670*	*1620*	*1510*	*16500*		—	*1560*	*1550*	*1500*	*1360*	*1430*	*1400*	*1430*	*15800*	
Total	—	2.3	2.3	1.8	1.7	3.1	3.5	2.9	2.1	-0.8s	—	4.6	3.9	3.3	4.4	5.4	6.2	4.9	3.0	-1.8sss
Gender:																				
Male	—	2.2	2.7	2.3	1.7	3.1	3.4	3.1	1.8	-1.3s	—	4.9	4.7	3.5	4.7	5.7	7.6	4.3	2.8	-1.5s
Female	—	2.3	2.0	1.3	1.7	3.0	3.7	2.6	2.2	-0.4	—	4.2	3.1	2.9	4.2	4.8	4.9	5.2	3.2	-2.1sss
College Plans:																				
None or under 4 years	—	4.8	6.1	4.8	5.3	6.5	9.2	9.1	6.9	-2.2	—	7.7	7.5	5.4	8.5	10.7	13.6	10.1	5.7	-4.4ss
Complete 4 years	—	1.9	2.0	1.5	1.2	2.7	2.9	2.3	1.5	-0.8ss	—	4.0	3.3	2.9	3.7	4.5	5.1	4.1	2.6	-1.4sss
Region:																				
Northeast	—	2.1	1.5	1.6	1.8	2.4	3.8	2.0	1.8	-0.2	—	4.4	3.0	3.8	7.0	6.4	8.2	4.4	2.7	-1.8
North Central	—	1.7	1.7	1.7	1.4	3.5	2.9	2.3	2.1	-0.2	—	3.6	3.2	2.2	2.3	5.2	4.8	4.6	2.5	-2.1s
South	—	2.8	2.3	2.7	1.8	3.2	3.7	3.7	2.5	-1.3	—	5.6	5.0	4.1	4.1	5.2	5.9	5.1	3.8	-1.4
West	—	2.3	3.8	0.8	1.7	2.9	3.6	3.0	1.6	-1.5	—	4.1	3.7	2.7	4.4	5.0	6.8	5.2	3.0	-2.2s
Population Density:																				
Large MSA	—	2.9	1.8	1.8	1.6	3.0	3.1	2.6	1.8	-0.8	—	5.6	4.0	2.5	5.2	7.0	7.3	5.1	2.4	-2.8sss
Other MSA	—	2.5	3.1	2.1	1.8	3.4	4.3	3.3	1.9	-1.4s	—	4.6	3.6	4.1	4.7	5.3	5.5	5.2	3.1	-2.1ss
Non-MSA	—	1.2	1.5	1.5	1.6	2.5	2.5	2.5	2.7	+0.2	—	3.3	4.2	2.7	2.8	3.7	6.3	3.7	3.8	+0.1
Parental Education:[a]																				
1.0-2.0 (Low)	—	2.9	2.2	2.1	2.5	4.2	5.8	6.0	3.6	-2.5	—	4.8	3.0	1.9	3.7	7.0	7.2	5.8	2.4	-3.4s
2.5-3.0	—	2.2	2.4	1.4	2.0	3.9	4.3	3.6	3.1	-0.5	—	4.7	3.9	3.1	4.4	4.9	6.5	5.5	3.8	-1.7
3.5-4.0	—	2.2	2.9	2.6	1.5	2.8	2.4	2.9	2.1	-0.9	—	4.7	5.2	4.3	4.0	6.3	7.0	5.5	3.5	-2.0s
4.5-5.0	—	2.6	2.0	1.4	1.2	3.1	3.3	2.4	1.4	-1.1s	—	4.2	2.5	2.9	4.3	5.0	5.3	3.9	2.7	-1.1
5.5-6.0 (High)	—	2.4	2.7	2.5	2.3	2.0	3.0	1.2	2.0	+0.8	—	5.3	4.0	4.4	5.6	4.8	5.8	4.6	2.3	-2.3s
Race (2-year average):[b]																				
White	—	—	2.7	2.4	1.9	2.5	3.2	2.9	2.4	-0.4	—	—	4.8	4.0	4.4	5.3	6.0	6.2	4.6	-1.6s
Black	—	—	0.3	0.4	0.5	0.6	1.1	1.1	1.0	-0.1	—	—	0.8	1.2	1.3	1.5	2.2	1.8	1.5	-0.3
Hispanic	—	—	2.5	1.7	1.9	3.3	5.3	5.9	4.0	-2.0	—	—	3.6	2.3	2.4	4.6	5.4	4.3	3.4	-0.9

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.
Data based on one of four forms in 1996–2001; N is one-third of N indicated in Tables D-75 and D-76. Data based on two of four forms beginning in 2002; N is one-half of N indicated in Tables D-75 and D-76.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-16
MDMA (Ecstasy): Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

	Percentage who used in last twelve months											
	Class of:											'02–'03
	1975–79	1980–89	1990–95	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N =	—	—	—	*1430*	*0015*	*4000*	*1520*	*0013*	*6000*	*1280*	*0012*	*8000*
Total	—	—	—	4.6	4.0	3.6	5.6	8.2	9.2	7.4	4.5	-2.9sss
Gender:												
Male	—	—	—	4.8	5.6	4.8	5.6	8.1	10.5	8.2	4.8	-3.4ss
Female	—	—	—	4.2	2.5	2.7	5.6	8.2	8.0	6.4	4.0	-2.5ss
College Plans:												
None or under 4 years	—	—	—	6.9	3.8	4.7	4.2	8.5	9.8	8.9	6.5	-2.4
Complete 4 years	—	—	—	4.0	3.9	3.3	6.2	8.0	8.7	7.1	3.9	-3.2sss
Region:												
Northeast	—	—	—	6.3	6.9	3.7	9.4	8.8	10.1	10.3	5.1	-5.2ss
North Central	—	—	—	3.7	1.3	2.7	3.3	5.7	11.8	5.0	4.7	-0.3
South	—	—	—	4.6	4.3	4.0	5.7	5.9	5.7	7.9	4.2	-3.7ss
West	—	—	—	3.9	4.1	4.0	5.0	14.4	10.3	6.8	4.2	-2.6
Population Density:												
Large MSA	—	—	—	3.6	3.6	3.2	6.1	8.7	10.9	8.4	4.3	-4.1ss
Other MSA	—	—	—	5.1	4.6	4.3	6.1	8.4	9.7	8.1	5.0	-3.2ss
Non-MSA	—	—	—	4.5	3.4	2.7	4.2	7.4	6.4	4.6	4.0	-0.6
Parental Education:[a]												
1.0-2.0 (Low)	—	—	—	5.5	3.5	4.2	6.8	7.3	3.8	4.8	4.1	-0.7
2.5-3.0	—	—	—	5.0	3.1	3.2	5.1	7.7	10.3	8.0	3.8	-4.2ss
3.5-4.0	—	—	—	4.9	3.8	3.2	5.7	6.2	8.4	7.5	5.7	-1.8
4.5-5.0	—	—	—	4.0	2.9	4.3	6.2	8.3	11.2	7.3	5.0	-2.3
5.5-6.0 (High)	—	—	—	4.1	8.7	3.5	4.7	10.6	8.1	7.6	3.3	-4.3s
Race (2-year average):[b]												
White	—	—	—	—	5.2	4.7	5.1	7.6	9.6	8.5	6.4	-2.2s
Black	—	—	—	—	0.4	0.4	0.5	1.3	2.4	1.7	1.4	-0.3
Hispanic	—	—	—	—	2.8	2.7	6.0	10.6	10.2	7.0	5.3	-1.7

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 error.
See Table D-77 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 D-77. Data based on two of six forms beginning in 2002; N is two-sixths of N indicated in Table D-77.

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

CAUTION: Limited sample sizes (see "Notes" above). Use caution in interpreting subgroup trends.

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-17
Cocaine: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	-0.1	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	-0.8
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	-0.4	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	-0.9
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	0.0	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	-0.7
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	-0.2	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	-1.8
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	-0.1	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	-0.7
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	0.0	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	+0.7
North Central	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	-0.3	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	-1.0
South	1.1	1.7	2.1	2.5	2.4	2.7	2.6	3.8	3.1	2.2	3.2	2.6	2.5	-0.1	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	-0.3
West	1.5	2.0	2.7	2.3	3.3	3.7	3.7	3.3	2.7	3.7	2.4	2.4	2.3	-0.1	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	-2.8ss
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	-0.3	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	-1.2
Other MSA	1.1	1.7	2.2	2.5	2.8	3.2	2.9	3.3	2.8	2.5	2.8	2.3	2.2	-0.2	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	-1.2s
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	+0.1	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	+0.8
Parental Education:[a]																												
1.0-2.0 (Low)	2.4	3.2	2.9	3.5	4.9	3.9	4.7	6.3	5.6	5.3	4.4	3.7	4.1	+0.4	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	-1.0
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	-0.5	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	-0.9
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	0.0	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	-0.4
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	-0.5	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	-0.2
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	+0.6	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	-1.6s
Race (2-year average):[b]																												
White	—	1.2	1.3	1.6	2.3	2.8	3.0	2.8	2.6	2.5	2.5	2.4	2.2	-0.1	—	2.1	2.0	2.2	3.0	3.8	4.4	4.7	4.9	4.7	3.9	3.9	3.9	+0.1
Black	—	0.7	0.7	0.7	0.6	0.6	0.5	0.7	0.8	0.8	0.8	0.8	0.9	+0.1	—	0.6	0.6	1.0	0.9	0.7	0.8	1.0	0.9	0.6	0.8	1.0	0.9	-0.1
Hispanic	—	3.1	4.0	4.5	4.7	4.8	4.3	5.2	5.9	4.7	4.2	4.1	3.8	-0.3	—	3.7	3.7	4.9	5.5	7.0	8.5	8.3	8.2	8.0	6.6	6.0	6.1	+0.1

NOTES: Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available.
Any apparent inconsistency between the change estimate and the prevalence of use estimates for the two most recent classes is due to rounding error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-18
Cocaine: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last twelve months

	Class of:																													'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
Total	5.6	6.0	7.2	9.0	12.0	12.3	12.4	11.5	11.4	11.6	13.1	12.7	10.3	7.9	6.5	5.3	3.5	3.1	3.3	3.6	4.0	4.9	5.5	5.7	6.2	5.0	4.8	5.0	4.8	-0.1
Gender:																														
Male	7.5	7.5	9.3	11.4	14.6	14.8	13.8	13.1	13.2	13.8	14.8	14.3	11.3	9.1	8.1	6.6	4.1	3.7	4.0	4.5	4.8	6.0	6.6	6.8	7.3	5.8	5.4	5.9	5.9	0.0
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	3.1	3.5	4.2	4.5	5.0	3.9	4.1	4.0	3.7	-0.4
College Plans:																														
None or under 4 years	—	6.6	8.1	9.5	13.7	13.2	12.4	12.5	12.2	13.2	14.7	15.7	12.4	9.7	9.3	7.8	4.9	5.1	4.5	5.3	5.6	7.5	8.1	9.7	9.1	7.1	8.2	8.6	6.0	-2.6ss
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	3.4	4.0	4.4	4.5	5.4	4.2	3.7	3.9	4.2	+0.3
Region:																														
Northeast	5.3	6.6	7.9	11.8	13.8	14.2	16.8	16.9	15.2	19.5	20.8	17.9	13.3	9.1	7.3	6.5	3.8	2.8	3.1	3.1	3.8	5.5	6.6	5.9	4.3	4.1	4.8	5.0	5.2	+0.2
North Central	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	3.4	3.8	4.7	5.8	6.2	4.8	5.7	5.2	3.9	-1.3
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	3.6	4.6	4.8	5.8	6.9	4.7	3.9	5.0	4.7	-0.3
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	5.8	6.1	6.8	5.4	6.9	6.3	5.0	4.6	5.8	+1.2
Population Density:																														
Large	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	4.4	4.8	4.7	5.4	5.0	4.1	4.3	4.1	3.8	-0.3
Other	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	3.9	4.9	5.6	5.8	6.6	4.9	5.0	5.4	5.7	+0.2
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	3.9	4.9	6.0	6.0	6.9	6.1	5.2	5.3	4.6	-0.7
Parental Education:[a] (Low)																														
1.0-2.0	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	4.8	5.3	6.5	6.9	9.0	6.2	5.7	6.6	4.8	-1.8
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	3.9	5.0	5.5	6.3	6.0	4.6	6.0	5.3	4.1	-1.2
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	4.2	5.0	5.6	6.0	6.8	5.0	4.8	5.3	5.2	-0.1
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	3.7	4.8	5.2	5.0	5.4	5.3	4.4	4.2	4.7	+0.5
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	3.4	4.3	4.4	4.4	5.2	3.9	2.6	4.3	4.4	+0.2
Race (2-year average):[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	4.0	4.5	5.5	6.3	6.7	6.2	5.5	5.7	5.6	-0.1
Black	—	—	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	1.0	0.8	0.9	0.9	0.9	1.0	1.0	0.9	1.1	+0.2
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	5.5	7.3	7.6	6.7	7.5	7.6	6.1	5.5	4.9	-0.6

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-19
Crack: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	-0.1	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	-0.7sss
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	-0.3	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	-0.8ss
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	+0.1	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	-0.6s
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	+0.1	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	-1.1
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	-0.1	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	-0.7sss
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	+0.1	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	-0.1
North Central	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	-0.2	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	-0.7s
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	+0.1	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	+0.1
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	-0.2	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	-2.5sss
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	-0.2	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	-1.0ss
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	+0.1	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	-0.8ss
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	-0.1	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	-0.1
Parental Education:[a]																												
1.0-2.0 (Low)	1.7	2.2	1.8	2.8	3.0	2.7	3.0	5.0	3.6	3.7	3.2	3.1	3.3	+0.2	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	-1.0
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	-0.3	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	-0.7
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	+0.2	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	-0.6
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	-0.2	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	-0.1
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	+0.1	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	-1.4ss
Race (2-year average):[b]																												
White	—	0.7	0.8	1.0	1.4	1.7	1.7	1.7	1.8	1.7	1.7	1.5	1.5	0.0	—	0.9	0.9	1.1	1.5	1.9	2.2	2.3	2.4	2.2	1.8	2.0	2.0	0.0
Black	—	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.5	0.6	0.7	+0.1	—	0.3	0.4	0.8	0.6	0.4	0.4	0.5	0.5	0.5	0.7	0.8	0.6	-0.1
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	+0.1	—	1.5	1.7	1.9	2.5	3.7	3.7	4.1	4.4	4.0	3.7	3.6	3.5	-0.1

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-20
Crack: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last twelve months

	Class of:																				'02–'03
	1975–79	1980–85	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N =	—	—	*1520*	*0016*	*3000*	*1630*	*0016*	*7000*	*1520*	*0150*	*0015*	*8000*	*1630*	*0154*	*0015*	*4000*	*1540*	*0014*	*3000*	*1540*	*0015*	*2000*	*1360*	*0012*	*8000*	*1280*	*0012*	*9000*	*1460*	*0*
Total	—	—	4.1	3.9	3.1	3.1	1.9	1.5	1.5	1.5	1.9	2.1	2.1	2.4	2.5	2.7	2.2	2.1	2.3	2.2	-0.1
Gender:																					
Male	—	—	4.2	4.6	4.0	4.3	2.3	1.8	1.7	1.9	2.4	2.5	2.6	3.0	3.1	2.9	2.5	2.4	2.6	2.3	-0.3
Female	—	—	3.6	3.0	2.0	1.8	1.4	1.0	1.0	1.1	1.3	1.5	1.6	1.8	2.0	2.2	1.7	1.8	1.8	1.9	+0.1
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	3.0	4.0	4.3	4.6	5.0	3.5	4.4	4.5	2.7	-1.8ss
Complete 4 years	—	—	2.8	2.7	2.3	2.7	1.2	1.1	1.0	1.2	1.4	1.7	1.6	1.7	1.9	1.9	1.7	1.5	1.7	1.8	+0.1
Region:																					
Northeast	—	—	6.0	4.0	2.3	3.3	2.0	1.3	1.3	1.2	1.5	1.6	2.1	2.6	3.0	2.4	1.8	2.0	2.0	2.0	0.0
North Central	—	—	3.1	3.5	2.4	2.2	1.6	1.5	1.4	1.3	2.2	2.0	2.3	2.2	2.6	2.8	2.0	2.6	2.6	1.9	-0.8
South	—	—	1.6	2.8	2.6	3.3	1.8	1.2	1.2	1.5	1.6	1.7	1.7	1.8	2.0	2.3	1.8	1.2	1.9	2.0	+0.2
West	—	—	7.5	6.1	5.6	3.8	2.7	1.8	2.1	2.1	2.3	3.5	2.6	3.4	3.2	3.4	3.2	3.0	2.8	3.0	+0.2
Population Density:																					
Large MSA	—	—	5.9	4.7	3.9	3.4	1.6	1.2	1.3	1.3	1.5	2.0	2.1	2.2	2.5	2.0	1.8	1.5	1.6	1.8	+0.1
Other MSA	—	—	3.5	3.5	3.2	3.3	2.0	1.7	1.6	1.8	2.1	2.1	1.9	2.3	2.4	2.5	2.1	2.2	2.4	2.3	-0.1
Non-MSA	—	—	3.5	3.7	2.0	2.2	2.0	1.2	1.3	1.4	1.9	2.1	2.5	2.8	2.9	3.6	2.8	2.8	2.8	2.4	-0.4
Parental Education:[a]																					
1.0-2.0 (Low)	—	—	1.2	3.6	3.3	3.1	2.2	1.6	1.9	2.6	2.7	3.4	3.4	3.6	3.9	3.2	2.8	3.8	4.8	2.5	-2.4ss
2.5-3.0	—	—	5.3	4.2	2.6	3.1	2.2	1.5	1.9	1.6	2.2	2.3	2.4	2.5	2.8	2.8	2.1	2.6	2.2	1.6	-0.7
3.5-4.0	—	—	4.0	4.0	3.4	2.8	1.8	1.7	1.3	1.5	1.8	1.7	2.2	2.0	2.4	3.0	2.2	1.8	2.3	2.3	0.0
4.5-5.0	—	—	2.9	3.4	3.1	2.6	1.1	0.9	1.0	1.4	1.1	1.9	1.6	2.5	2.1	2.2	1.8	1.9	1.7	2.2	+0.5
5.5-6.0 (High)	—	—	3.7	2.4	2.1	3.7	1.8	1.1	0.8	1.0	1.8	1.5	1.6	1.8	2.1	1.6	2.2	1.2	1.5	1.9	+0.4
Race (2-year average):[b]																					
White	—	—	—	3.8	3.4	3.1	2.1	1.6	1.3	1.3	1.6	1.9	2.0	2.2	2.6	2.8	2.5	2.2	2.3	2.2	-0.1
Black	—	—	—	1.9	2.5	2.0	1.3	1.0	0.6	0.6	0.9	1.0	0.7	0.5	0.3	0.4	0.5	0.5	0.7	1.2	+0.5
Hispanic	—	—	—	5.5	3.7	3.2	4.2	3.4	2.7	2.5	2.4	3.1	4.1	4.2	3.9	3.5	3.4	3.1	3.1	2.9	-0.2

NOTES: Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available.
Any apparent inconsistency between the change estimate and the prevalence of use estimates for the two most recent classes is due to rounding error.
See Table D-77 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 D-77. Data based on two forms in 1987–89; N is two-fifths of N indicated in 1987–88 and two-sixths of N indicated in 1989 in Table D-77. Data based on six forms beginning in 1990.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-21
Other Cocaine: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*1750*	*0018*	*6000*	*1830*	*0173*	*0017*	*5000*	*1780*	*0186*	*0018*	*1001*	*6700*	*1670*	*0162*	*0015*	*1001*	*6500*		*1480*	*0014*	*8001*	*5300*	*1580*	*0017*	*0001*	*5600*	*1550*	*0015*	*0001*	*3600*	*1430*	*0014*	*0001*	*4300*	*1580*	*0*
Total	1.0	1.2	1.3	1.7	2.1	2.5	2.2	2.4	2.3	1.9	1.9	1.8	1.6	-0.2	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	-0.6
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	-0.2	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	-0.7
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	-0.2	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	-0.6
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	-1.4	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	-1.4
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	-0.1	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	-0.5
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	-0.2	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	+0.9
North Central	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	-0.1	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	-0.9
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	-0.2	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	-0.2
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	-0.3	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	-2.3s
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	-0.2	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	-1.0
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	-0.2	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	-0.9
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	-0.2	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	+0.7
Parental Education:[a]																												
1.0-2.0 (Low)	2.1	2.7	2.2	3.1	4.3	3.2	3.5	4.7	5.1	4.2	3.7	2.8	2.9	+0.2	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	-0.6
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	-0.5	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	-0.4
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	-0.4	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	-0.3
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	-0.5	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	-0.3
5.5-6.0 (High)	1.0	1.2	0.8	1.2	2.0	1.9	1.7	1.8	1.8	1.3	1.1	0.8	1.5	+0.7	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	-1.5s
Race (2-year average):[b]																												
White	—	0.9	1.0	1.2	1.8	2.4	2.5	2.2	2.1	1.9	1.8	1.8	1.8	0.0	—	1.9	1.8	1.9	2.6	3.2	3.7	4.1	4.3	4.1	3.4	3.3	3.4	+0.1
Black	—	0.6	0.5	0.6	0.5	0.4	0.3	0.5	0.7	0.6	0.5	0.5	0.6	+0.1	—	0.5	0.5	0.9	0.8	0.6	0.6	0.9	0.8	0.5	0.5	0.7	0.7	0.0
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	-0.5	—	3.4	3.4	4.6	5.2	6.1	7.5	7.0	6.8	7.1	5.6	5.0	5.2	+0.2

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-22
Other Cocaine: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last twelve months

	Class of:																			'02–'03
	1975–79	1980–86	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N =	—	—	*16300*	*16300*	*16700*	*15200*	*15000*	*15800*	*16300*	*15400*	*15400*	*14300*	*15400*	*15200*	*13600*	*12800*	*12800*	*12900*	*14600*	
Total	—	—	9.8	7.4	5.2	4.6	3.2	2.6	2.9	3.0	3.4	4.2	5.0	4.9	5.8	4.5	4.4	4.4	4.2	-0.1
Gender:																				
Male	—	—	10.1	8.0	6.5	5.8	3.7	3.1	3.7	3.7	4.0	4.9	5.7	5.6	7.1	5.5	4.9	5.0	5.4	+0.4
Female	—	—	9.1	6.2	4.0	3.2	2.4	2.0	2.0	2.3	2.5	3.2	4.0	3.9	4.2	3.4	3.7	3.7	2.9	-0.8
College Plans:																				
None or under 4 years	—	—	9.8	6.0	7.3	6.3	4.0	4.0	3.9	4.3	4.5	5.7	7.0	8.9	7.6	6.7	7.4	7.1	4.8	-2.3s
Complete 4 years	—	—	8.3	6.7	4.2	3.7	2.8	2.0	2.5	2.5	2.9	3.5	4.1	3.5	5.2	3.7	3.4	3.4	3.8	+0.3
Region:																				
Northeast	—	—	12.9	7.0	4.9	5.6	3.4	2.8	2.3	2.8	4.2	5.2	5.9	4.7	4.1	3.7	4.4	4.3	5.3	+1.0
North Central	—	—	8.2	5.6	4.8	3.7	2.9	2.2	2.3	3.5	2.7	3.2	4.1	5.3	5.7	4.5	5.6	4.8	3.2	-1.6
South	—	—	5.8	5.8	4.6	4.1	2.8	2.5	2.6	2.6	3.1	4.2	4.6	4.9	6.6	4.0	3.9	4.4	4.1	-0.4
West	—	—	15.3	13.4	7.5	6.1	3.9	3.1	4.6	3.5	4.0	4.5	6.2	4.4	6.1	5.9	3.5	3.9	4.7	+0.9
Population Density:																				
Large MSA	—	—	13.3	9.8	5.6	5.0	3.7	3.1	2.6	2.6	3.7	3.9	4.2	4.8	4.8	3.7	4.1	3.5	3.0	-0.6
Other MSA	—	—	8.9	7.8	5.4	4.7	3.3	2.5	3.6	3.5	3.3	4.4	5.2	4.9	6.0	4.5	4.3	4.7	5.3	+0.6
Non-MSA	—	—	8.0	4.5	4.4	4.1	2.5	2.3	2.0	2.6	3.1	4.2	5.6	4.9	6.7	5.4	5.0	4.9	3.9	-1.0
Parental Education:[a]																				
1.0-2.0 (Low)	—	—	5.3	4.9	3.3	3.4	3.5	3.7	3.9	2.7	2.9	5.2	6.4	5.5	7.4	5.4	3.7	5.1	4.1	-1.0
2.5-3.0	—	—	10.5	6.5	4.6	5.0	3.5	2.3	2.3	3.2	3.4	3.8	4.9	5.3	5.0	3.8	5.6	4.7	3.4	-1.3
3.5-4.0	—	—	10.5	7.2	5.1	4.7	3.2	2.6	3.3	3.4	3.6	4.6	4.9	5.3	6.9	4.7	4.7	4.9	4.6	-0.3
4.5-5.0	—	—	9.0	7.7	6.1	4.1	2.7	2.3	2.9	2.6	3.2	3.9	4.4	4.2	5.5	4.5	3.9	3.4	4.3	+1.0
5.5-6.0 (High)	—	—	9.7	9.0	6.5	5.4	2.4	2.0	1.7	3.1	2.7	3.8	4.8	3.5	3.6	4.2	2.2	3.9	3.8	0.0
Race (2-year average):[b]																				
White	—	—	—	9.3	7.0	5.3	4.2	2.9	2.6	2.9	3.3	3.9	5.0	5.6	6.0	5.7	5.0	5.1	4.9	-0.2
Black	—	—	—	2.8	1.4	0.7	1.0	1.0	0.7	0.8	0.8	0.7	0.7	0.6	0.8	1.0	0.9	0.8	1.0	+0.2
Hispanic	—	—	—	6.3	5.1	5.1	5.0	4.3	5.1	5.1	4.0	5.6	6.9	6.0	5.8	6.6	5.8	4.7	3.9	-0.8

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.
Data based on one form in 1987–89; N is one-fifth of N indicated in 1987–88 and one-sixth of N indicated in 1989 in Table D-77. Data based on four of six forms beginning in 1990; N is four-sixths of N indicated in Table D-77.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-23
Heroin: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months

	8th Grade														10th Grade														
	1991	1992	1993	1994	1995[a]	1996[a]	1997[a]	1998[a]	1999[a]	2000[a]	2001[a]	2002[a]	2003[a]	'02–'03 change	1991	1992	1993	1994	1995[a]	1996[a]	1997[a]	1998[a]	1999[a]	2000[a]	2001[a]	2002[a]	2003[a]	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	0.0	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	-0.3ss
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	0.0	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	-0.5ss
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	0.0	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	-0.1
College Plans:																												
None or under 4 years	2.1	2.7	2.0	3.9	4.4	4.1	3.4	5.0	3.7	3.5	3.1	2.9	3.1	+0.3	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	-0.7
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	-0.1	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	-0.3s
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	-0.1	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	-0.3
North Central	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	0.0	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	-0.5s
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	+0.1	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	+0.1
West	1.0	0.7	1.1	1.1	1.2	1.6	1.4	1.3	1.2	1.4	0.7	1.0	0.9	-0.1	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	-0.8ss
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	+0.1	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	-0.4
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	-0.1	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	-0.2
Non-MSA	0.8	0.7	0.4	1.0	1.5	1.5	1.5	1.6	1.5	1.0	1.1	1.1	1.2	+0.1	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	-0.6
Parental Education:[b]																												
1.0-2.0 (Low)	1.5	1.4	0.8	2.0	2.6	2.0	2.3	3.5	2.8	1.7	2.6	1.2	2.1	+0.9	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	-0.9
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	-0.3	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	0.0
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	-0.1	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	-0.4
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	-0.2	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	0.0
5.5-6.0 (High)	0.5	0.8	0.6	1.3	1.6	1.0	1.5	1.4	1.8	1.0	0.8	0.6	0.7	+0.1	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	-1.3sss
Race (2-year average):[c]																												
White	—	0.6	0.6	0.8	1.2	1.6	1.6	1.3	1.2	1.2	1.0	1.0	0.9	0.0	—	0.6	0.7	0.8	1.0	1.2	1.4	1.4	1.5	1.5	1.2	1.0	0.9	-0.1
Black	—	0.4	0.3	0.6	0.7	0.5	0.4	0.5	0.7	0.5	0.6	0.6	0.5	-0.1	—	0.3	0.4	0.6	0.6	0.2	0.2	0.4	0.5	0.5	0.5	0.3	0.3	0.0
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	+0.2	—	0.7	0.7	0.7	1.0	1.0	1.3	1.6	1.7	1.4	1.4	1.1	1.1	-0.1

NOTES: Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available.
Any apparent inconsistency between the change estimate and the prevalence of use estimates for the two most recent classes is due to rounding error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]In 1995, the heroin question was changed in half of the forms. Separate questions were asked for use with injection and without injection. In 1996, the remaining form was also changed. Data presented here represent the combined data from all forms.

[b]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-24
Heroin: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last twelve months

	Class of:																													'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995[a]	1996[a]	1997[a]	1998[a]	1999[a]	2000[a]	2001[a]	2002[a]	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
Total	1.0	0.8	0.8	0.8	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.6	0.5	0.4	0.6	0.5	0.6	1.1	1.0	1.2	1.0	1.1	1.5	0.9	1.0	0.8	-0.2
Gender:																														
Male	1.2	1.0	1.2	1.1	0.6	0.6	0.6	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.9	0.6	0.6	0.8	0.7	0.8	1.4	1.3	1.5	1.4	1.4	1.7	1.3	1.1	0.8	-0.2
Female	0.8	0.5	0.4	0.6	0.3	0.4	0.3	0.4	0.4	0.3	0.3	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.8	0.7	0.9	0.7	0.8	1.2	0.6	0.8	0.5	-0.3
College Plans:																														
None or under 4 years	—	0.9	1.1	1.0	0.7	0.6	0.5	0.7	0.9	0.6	0.7	0.8	0.5	0.8	0.9	0.6	0.5	0.9	1.0	1.1	1.5	1.8	1.8	1.7	1.3	2.2	1.3	2.3	0.9	-1.5sss
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	0.9	0.8	1.0	0.8	1.0	1.1	0.7	0.7	0.6	0.0
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	1.0	1.6	1.7	1.3	1.2	1.0	1.2	1.2	0.8	-0.5
North Central	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	0.7	0.7	0.9	1.0	0.9	1.4	1.3	1.0	0.6	-0.4
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	1.4	1.0	1.1	1.1	1.3	1.6	0.6	1.2	1.0	-0.2
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	1.0	0.9	1.2	0.6	0.9	1.8	0.8	0.5	0.5	+0.1
Population Density:																														
Large	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	1.4	1.1	1.1	0.9	0.8	1.9	1.1	1.0	0.7	-0.3
Other	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	0.9	1.1	1.3	1.3	1.3	1.3	0.8	1.0	0.8	-0.2
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	1.0	0.9	1.0	0.6	1.0	1.3	0.9	1.1	0.9	-0.2
Parental Education:[b] (Low)																														
1.0-2.0	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	1.8	1.1	2.1	1.2	2.3	2.3	1.3	2.1	1.1	-1.1
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	1.1	0.9	1.0	1.0	0.9	1.6	0.5	1.0	0.7	-0.3
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	0.9	1.1	1.2	1.2	1.0	1.3	1.0	0.9	0.8	-0.1
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	1.1	1.0	1.1	1.0	1.1	1.5	1.0	0.7	0.6	0.0
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	1.0	0.8	1.1	0.7	1.1	1.1	0.8	1.0	0.6	-0.5
Race (2-year average):[c]																														
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	0.8	1.0	1.2	1.2	1.1	1.3	1.3	1.0	0.8	-0.2
Black	—	—	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	0.4	0.5	0.5	0.4	0.3	0.5	0.4	0.5	0.7	+0.2
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	1.2	1.5	1.1	0.8	1.0	2.0	1.6	0.8	0.8	0.0

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]In 1995, the heroin question was changed in half of the forms. Separate questions were asked for use with injection and without injection. Data presented here represent the combined data from all forms.

[b]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-25
Heroin with a Needle: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months

	8th Grade											10th Grade										
	1991–94	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991–94	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	—	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		—	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
Total	—	0.9	1.0	0.8	0.8	0.9	0.6	0.7	0.6	0.6	0.0	—	0.6	0.7	0.7	0.8	0.6	0.5	0.4	0.6	0.5	-0.1
Gender:																						
Male	—	1.2	1.0	0.8	1.0	1.0	0.7	0.7	0.6	0.7	+0.1	—	0.8	0.8	0.9	1.0	0.8	0.6	0.5	0.6	0.5	-0.1
Female	—	0.5	1.0	0.7	0.7	0.8	0.6	0.7	0.6	0.5	-0.1	—	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.4	0.4	0.0
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	0.0	—	1.6	1.4	1.5	1.6	1.7	1.7	1.4	1.5	1.4	-0.2
Complete 4 years	—	0.6	0.7	0.6	0.6	0.7	0.5	0.6	0.5	0.4	-0.1	—	0.4	0.5	0.6	0.6	0.5	0.3	0.3	0.4	0.3	-0.1
Region:																						
Northeast	—	0.8	1.3	0.5	0.6	1.0	0.8	0.9	0.6	0.4	-0.2	—	0.5	0.3	0.6	0.8	0.7	0.5	0.5	0.4	0.4	0.0
North Central	—	0.9	1.1	0.7	0.9	1.2	0.9	0.7	0.8	0.6	-0.2	—	0.6	1.0	0.8	0.9	0.7	0.5	0.5	0.6	0.5	-0.1
South	—	0.8	0.9	0.8	1.0	0.9	0.3	0.9	0.6	0.7	+0.1	—	0.6	0.7	0.8	0.8	0.6	0.6	0.3	0.5	0.5	0.0
West	—	1.0	1.0	1.0	0.8	0.7	0.8	0.3	0.6	0.7	+0.2	—	0.5	0.5	0.6	0.6	0.6	0.4	0.5	0.8	0.5	-0.3
Population Density:																						
Large MSA	—	0.9	0.7	0.6	0.8	0.8	0.7	0.7	0.4	0.5	+0.1	—	0.5	0.5	0.6	0.7	0.6	0.6	0.4	0.5	0.4	-0.1
Other MSA	—	0.9	1.2	0.8	0.8	0.9	0.6	0.6	0.7	0.6	-0.1	—	0.5	0.7	0.6	0.7	0.5	0.4	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	0.0	—	0.8	0.8	1.1	1.0	1.0	0.6	0.4	1.0	0.6	-0.3
Parental Education:[a]																						
1.0-2.0 (Low)	—	1.3	0.9	1.5	2.3	2.0	1.2	2.0	1.1	1.6	+0.5	—	1.6	0.6	0.7	1.3	1.2	1.0	0.5	1.2	0.8	-0.4
2.5-3.0	—	0.5	1.2	0.8	0.8	0.9	0.5	0.7	0.9	0.6	-0.3	—	0.5	0.8	0.6	0.6	0.7	0.8	0.7	0.3	0.4	+0.2
3.5-4.0	—	0.8	1.2	0.6	0.6	0.9	0.4	0.6	0.6	0.4	-0.2	—	0.7	0.7	0.9	0.9	0.6	0.5	0.2	0.6	0.5	-0.1
4.5-5.0	—	1.0	0.8	0.7	0.7	0.5	0.4	0.5	0.5	0.5	0.0	—	0.4	0.5	0.7	0.6	0.6	0.3	0.3	0.3	0.5	+0.2
5.5-6.0 (High)	—	1.0	0.6	0.9	0.9	1.2	0.9	0.7	0.4	0.5	+0.1	—	0.3	0.6	0.7	0.8	0.6	0.3	0.5	1.1	0.2	-0.9ss
Race (2-year average):[b]																						
White	—	—	1.1	1.0	0.7	0.8	0.7	0.6	0.7	0.6	-0.1	—	—	0.6	0.7	0.7	0.6	0.5	0.4	0.5	0.5	0.0
Black	—	—	0.3	0.2	0.3	0.4	0.3	0.5	0.5	0.4	-0.1	—	—	0.1	0.1	0.3	0.3	0.3	0.3	0.2	0.1	-0.1
Hispanic	—	—	1.1	1.0	1.1	1.5	1.2	0.8	0.7	0.9	+0.3	—	—	0.6	0.6	0.8	1.0	0.9	0.9	0.7	0.7	0.0

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 error.
See Tables D-75 and D-76 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 Tables D-75 and D-76.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-26
Heroin with a Needle: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

	Percentage who used in last twelve months												
	Class of:												'02–'03
	1975–79	1980–89	1990–94	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N =	—	—	—	*15400*	*14300*	*15400*	*15200*	*13600*	*12800*	*12800*	*12900*	*14600*	
Total	—	—	—	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	+0.1
Gender:													
Male	—	—	—	0.7	0.9	0.9	0.6	0.6	0.6	0.5	0.5	0.6	+0.1
Female	—	—	—	0.3	0.1	0.2	0.3	0.2	0.2	0.1	0.2	0.3	+0.1
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	-0.5
Complete 4 years	—	—	—	0.4	0.4	0.4	0.3	0.4	0.2	0.2	0.3	0.4	+0.1
Region:													
Northeast	—	—	—	0.4	0.6	0.6	0.7	0.3	0.2	0.7	0.6	0.6	0.0
North Central	—	—	—	0.5	0.4	0.8	0.4	0.5	0.4	0.2	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	+0.3
West	—	—	—	0.8	0.5	0.5	0.1	0.3	0.1	0.4	0.2	0.2	0.0
Population Density													
Large MSA	—	—	—	0.6	0.7	0.3	0.3	0.4	0.8	0.4	0.5	0.5	+0.1
Other MSA	—	—	—	0.4	0.5	0.6	0.5	0.3	0.3	0.3	0.3	0.4	+0.2
Non-MSA	—	—	—	0.6	0.3	0.7	0.5	0.6	0.3	0.2	0.5	0.4	-0.1
Parental Education:[a]													
1.0-2.0 (Low)	—	—	—	0.7	0.9	1.8	0.8	1.5	1.2	0.7	0.8	0.5	-0.3
2.5-3.0	—	—	—	0.6	0.5	0.4	0.5	0.1	0.4	0.3	0.4	0.7	+0.3
3.5-4.0	—	—	—	0.2	0.3	0.3	0.4	0.5	0.2	0.1	0.5	0.3	-0.2
4.5-5.0	—	—	—	0.5	0.7	0.6	0.4	0.3	0.4	0.4	0.2	0.4	+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	+0.2
Race (2-year average):[b]													
White	—	—	—	—	0.4	0.5	0.5	0.4	0.3	0.2	0.2	0.3	+0.1
Black	—	—	—	—	0.2	0.5	0.4	0.2	0.5	0.4	0.2	0.4	+0.2
Hispanic	—	—	—	—	1.0	0.7	0.5	0.6	1.0	0.6	0.4	0.6	+0.1

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.
Data based on three of six forms; N is one-half of N indicated in Table D-77.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-27
Heroin without a Needle: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months

	8th Grade											10th Grade										
	1991–94	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991–94	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	—	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		—	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
Total	—	0.8	1.0	0.8	0.8	0.9	0.7	0.6	0.6	0.6	0.0	—	0.8	0.9	1.1	1.0	1.1	1.1	0.7	0.8	0.5	-0.3s
Gender:																						
Male	—	1.0	0.9	0.9	0.9	0.8	0.5	0.6	0.6	0.6	0.0	—	0.9	1.1	1.2	1.2	1.3	1.1	0.8	0.9	0.6	-0.3
Female	—	0.6	0.9	0.7	0.8	0.8	0.8	0.6	0.7	0.6	-0.1	—	0.7	0.7	1.0	0.8	1.0	1.0	0.6	0.6	0.4	-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	+0.6	—	1.7	1.8	2.1	1.8	2.5	2.7	1.7	2.2	1.4	-0.8
Complete 4 years	—	0.5	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.4	-0.1	—	0.6	0.7	1.0	0.9	0.8	0.8	0.5	0.6	0.4	-0.2
Region:																						
Northeast	—	0.9	1.1	0.8	0.7	0.7	0.6	0.7	0.3	0.5	+0.2	—	0.5	0.7	1.0	1.4	1.6	1.2	0.8	0.7	0.4	-0.3
North Central	—	1.0	1.0	0.9	0.9	1.0	0.8	0.6	0.7	0.8	+0.1	—	0.5	0.8	1.2	0.7	1.0	1.2	0.8	0.9	0.5	-0.3
South	—	0.8	0.8	0.7	0.9	0.9	0.5	0.6	0.7	0.7	0.0	—	1.1	1.1	1.2	1.0	1.0	1.3	0.7	0.5	0.7	+0.1
West	—	0.7	1.1	1.1	0.9	0.9	0.8	0.5	0.7	0.5	-0.2	—	0.9	0.9	1.0	0.8	0.8	0.5	0.5	1.2	0.4	-0.8ss
Population Density:																						
Large MSA	—	0.9	1.0	0.6	0.5	0.8	0.7	0.5	0.6	0.6	0.0	—	0.9	0.9	1.3	0.8	0.9	1.5	0.8	0.6	0.4	-0.2
Other MSA	—	0.8	1.0	0.9	1.0	0.8	0.8	0.8	0.5	0.6	+0.1	—	0.7	1.0	1.0	1.1	1.2	1.0	0.7	0.8	0.6	-0.2
Non-MSA	—	0.9	0.9	1.0	1.0	1.1	0.5	0.4	0.8	0.7	-0.1	—	0.9	0.7	1.1	1.0	1.2	0.9	0.7	1.0	0.6	-0.4
Parental Education:[a]																						
1.0-2.0 (Low)	—	1.9	1.5	1.3	2.4	1.7	1.1	1.3	0.5	1.4	+1.0s	—	1.7	0.8	0.9	1.2	1.8	1.1	0.9	1.5	0.9	-0.5
2.5-3.0	—	0.7	0.9	1.1	0.7	1.0	1.3	0.6	0.8	0.6	-0.2	—	0.6	0.7	1.0	1.0	1.1	1.1	0.9	0.7	0.7	0.0
3.5-4.0	—	0.5	1.2	0.5	0.8	0.6	0.5	0.6	0.6	0.7	+0.1	—	0.9	1.0	1.3	1.2	0.9	1.3	0.5	0.8	0.4	-0.4
4.5-5.0	—	0.8	0.8	0.8	0.6	0.8	0.5	0.5	0.6	0.4	-0.2	—	0.5	0.8	1.1	1.0	1.0	1.0	0.6	0.5	0.5	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	+0.1	—	0.9	1.1	1.0	0.7	1.1	1.1	0.6	1.1	0.1	-1.1sss
Race (2-year average):[b]																						
White	—	—	1.0	1.0	0.8	0.8	0.8	0.7	0.6	0.6	0.0	—	—	0.9	1.0	1.1	1.1	1.2	1.0	0.8	0.7	-0.1
Black	—	—	0.2	0.2	0.4	0.5	0.3	0.3	0.3	0.3	0.0	—	—	0.1	0.1	0.2	0.3	0.3	0.4	0.3	0.3	0.0
Hispanic	—	—	1.5	1.2	1.1	1.4	1.1	0.8	1.0	1.0	0.0	—	—	0.8	1.1	1.4	1.3	0.9	0.8	0.8	0.8	0.0

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 error.
See Tables D-75 and D-76 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 Tables D-75 and D-76.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-28
Heroin without a Needle: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

	Percentage who used in last twelve months												
	Class of:												'02–'03
	1975–79	1980–89	1990–94	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N =	—	—	—	*15400*	*14300*	*15400*	*15200*	*13600*	*12800*	*12800*	*12900*	*14600*	
Total	—	—	—	1.0	1.0	1.2	0.8	1.0	1.6	0.8	0.8	0.8	-0.1
Gender:													
Male	—	—	—	1.4	1.3	1.4	1.0	1.3	1.8	1.3	0.9	0.9	0.0
Female	—	—	—	0.7	0.7	0.9	0.7	0.8	1.5	0.4	0.7	0.7	-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	-1.4s
Complete 4 years	—	—	—	0.9	0.8	1.0	0.6	1.0	1.3	0.7	0.4	0.7	+0.3
Region:													
Northeast	—	—	—	0.9	1.9	1.9	1.1	1.3	0.9	1.3	1.1	0.6	-0.5
North Central	—	—	—	0.7	0.5	1.0	0.6	0.7	1.6	1.1	0.9	0.7	-0.2
South	—	—	—	1.4	0.9	1.1	1.1	1.2	1.8	0.3	0.9	1.2	+0.3
West	—	—	—	0.8	0.7	0.6	0.3	1.0	2.0	0.9	0.4	0.3	-0.1
Population Density:													
Large MSA	—	—	—	1.3	1.1	1.2	0.9	0.9	2.5	1.0	0.6	0.8	+0.3
Other MSA	—	—	—	0.8	1.2	1.1	0.9	1.2	1.2	0.8	1.1	0.7	-0.5
Non-MSA	—	—	—	1.0	0.4	1.2	0.4	0.8	1.4	0.7	0.6	1.0	+0.4
Parental Education:[a]													
1.0-2.0 (Low)	—	—	—	1.0	0.8	1.7	0.5	2.0	2.7	1.5	1.8	1.0	-0.8
2.5-3.0	—	—	—	1.1	0.6	0.8	1.1	1.1	1.8	0.5	0.9	0.9	0.0
3.5-4.0	—	—	—	0.9	1.1	1.3	0.9	0.8	1.7	0.8	1.0	0.7	-0.3
4.5-5.0	—	—	—	1.2	1.2	1.2	0.8	1.1	1.6	1.1	0.2	0.8	+0.6s
5.5-6.0 (High)	—	—	—	0.6	1.0	1.0	0.5	1.0	0.6	0.8	0.8	0.7	-0.1
Race (2-year average):[b]													
White	—	—	—	—	1.1	1.3	1.2	1.1	1.4	1.3	1.0	0.8	-0.1
Black	—	—	—	—	0.2	0.3	0.3	0.1	0.4	0.4	0.4	0.6	+0.3
Hispanic	—	—	—	—	0.9	0.6	0.4	0.6	1.8	1.3	0.5	0.7	+0.2

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.
Data based on three of six forms; N is one-half of N indicated in Table D-77.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-29
Other Narcotics: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last twelve months[a]

	Class of:																												'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001[b]	2002[b]	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
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	4.7	5.4	6.2	6.3	6.7	7.0	6.7‡	9.4	9.3	-0.2
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	5.6	6.4	7.1	7.4	8.2	8.0	8.0‡	11.6	10.7	-0.9
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	3.8	4.4	5.4	5.1	5.2	5.9	5.6‡	7.4	7.8	+0.4
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	5.6	7.0	8.2	8.4	7.0	7.8	7.5‡	12.4	12.3	-0.1
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	4.4	4.9	5.7	5.5	6.6	6.6	6.4‡	8.8	8.4	-0.4
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	4.3	6.1	7.8	6.5	6.2	6.7	7.2‡	10.6	9.3	-1.3
North Central	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	5.2	6.0	6.1	6.5	7.5	7.2	7.8‡	8.8	9.1	+0.4
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	4.5	5.1	6.1	6.5	7.5	6.6	5.7‡	9.3	8.0	-1.3
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	4.7	4.1	4.7	5.2	4.7	7.5	6.5‡	9.5	11.4	+1.9
Population Density:																														
Large	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	4.8	4.6	4.6	5.2	5.4	7.0	8.4‡	8.9	7.4	-1.5
Other	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	4.7	5.4	7.2	6.8	7.4	7.2	5.6‡	10.3	10.3	0.0
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	4.7	6.0	6.0	6.5	6.8	6.6	6.9‡	8.5	9.7	+1.2
Parental Education:[c] (Low)																														
1.0-2.0	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	4.0	4.5	4.7	4.7	4.6	4.6	5.1‡	6.2	7.9	+1.7
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	4.2	5.6	5.3	5.9	5.9	6.4	6.4‡	8.9	9.3	+0.4
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	4.4	5.5	6.5	6.8	7.2	7.3	7.1‡	10.4	9.8	-0.6
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	5.4	6.8	6.2	7.4	7.9	7.0‡	10.3	9.5	-0.8
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	5.5	5.6	7.6	6.6	7.4	7.5	7.0‡	8.7	8.8	+0.1
Race (2-year average):[d]																														
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	5.0	5.9	7.1	7.6	7.7	8.3	8.5	10.3‡	10.2[d]	(-0.7)[e]
Black	—	—	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	1.4	1.2	1.8	2.4	2.0	1.7	1.8	1.9‡	2.1[d]	(+0.6)[e]
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	2.5	3.7	3.1	2.8	3.6	4.6	4.5	4.3‡	5.2[d]	(+0.6)[e]

NOTES: '‡' indicates some change in the question. See relevant footnote. 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 error. See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Only drug use not under a doctor's orders is included here.

[b]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. In 2003, the data are based on all forms.

[c]Parental education is an average score of mother's education and father's education. See Appendix B for details.

[d]To derive percentages for each racial subgroup, data for the specified year *and* the previous year have been combined to increase subgroup sample sizes and thus provide more stable estimates. The 2003 data comprise half of the 2002 sample data double-weighted and all of the 2003 sample data.

[e]This value is our best estimate of the actual change. The 2002–2003 change score is calculated as the combination of the data from half of the 2002 forms containing the old question wording plus the data from half of the 2003 forms with the new question wording minus the combination of the data from half of the 2001 forms with the old question wording combined with the data from half of the 2002 forms with the new question wording.

Other Narcotics: Annual prevalence of use by subgroups is not reported for 8th and 10th graders.

TABLE D-30
OxyContin: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

	Percentage who used in last twelve months									
	8th Grade					10th Grade				
	1991–99	2000–01	2002	2003	'02–'03 change	1991–99	2000–01	2002	2003	'02–'03 change
Approx. N =	—	—	*15100*	*16500*		—	—	*14300*	*15800*	
Total	—	—	1.3	1.7	+0.4	—	—	3.0	3.6	+0.6
Gender:										
Male	—	—	1.9	1.6	-0.2	—	—	3.6	4.3	+0.7
Female	—	—	0.9	1.7	+0.8s	—	—	2.4	2.9	+0.5
College Plans:										
None or under 4 years	—	—	4.3	7.5	+3.2	—	—	6.5	10.8	+4.3s
Complete 4 years	—	—	1.0	1.1	+0.2	—	—	2.5	2.5	0.0
Region:										
Northeast	—	—	1.0	1.2	+0.2	—	—	3.6	3.7	+0.1
North Central	—	—	1.7	1.7	+0.1	—	—	2.1	2.9	+0.8
South	—	—	1.5	2.1	+0.6	—	—	3.7	4.2	+0.4
West	—	—	0.9	1.3	+0.4	—	—	2.6	3.5	+1.0
Population Density:										
Large MSA	—	—	1.2	1.1	-0.1	—	—	2.0	2.3	+0.3
Other MSA	—	—	1.4	1.7	+0.3	—	—	3.3	3.6	+0.2
Non-MSA	—	—	1.5	2.5	+1.0	—	—	3.7	5.7	+2.0
Parental Education:[a]										
1.0-2.0 (Low)	—	—	2.9	4.0	+1.1	—	—	6.5	5.9	-0.6
2.5-3.0	—	—	2.0	2.3	+0.4	—	—	3.8	3.9	+0.2
3.5-4.0	—	—	1.0	1.9	+0.9	—	—	2.0	4.1	+2.1s
4.5-5.0	—	—	0.9	0.7	-0.2	—	—	1.7	2.9	+1.2
5.5-6.0 (High)	—	—	1.3	1.6	+0.3	—	—	4.4	2.8	-1.6
Race (2-year average):[b]										
White	—	—	—	1.6	—	—	—	—	3.6	—
Black	—	—	—	0.9	—	—	—	—	2.3	—
Hispanic	—	—	—	1.3	—	—	—	—	2.5	—

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 error.
See Tables D-75 and D-76 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 Tables D-75 and D-76.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-31
OxyContin: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

	Percentage who used in last twelve months						
	Class of:						'02–'03
	1975–79	1980–89	1990–99	2000–01	2002	2003	change
Approx. N =	—	—	—	—	*12900*	*14600*	
Total	—	—	—	—	4.0	4.5	+0.5
Gender:							
Male	—	—	—	—	5.6	6.2	+0.6
Female	—	—	—	—	2.6	2.8	+0.2
College Plans:							
None or under 4 years	—	—	—	—	7.0	8.8	+1.8
Complete 4 years	—	—	—	—	3.2	3.1	-0.2
Region:							
Northeast	—	—	—	—	5.0	5.5	+0.5
North Central	—	—	—	—	5.0	4.5	-0.5
South	—	—	—	—	3.6	4.0	+0.5
West	—	—	—	—	2.6	4.4	+1.8
Population Density:							
Large MSA	—	—	—	—	3.7	2.8	-0.9
Other MSA	—	—	—	—	3.8	5.3	+1.5
Non-MSA	—	—	—	—	4.7	5.2	+0.5
Parental Education:[a]							
1.0-2.0 (Low)	—	—	—	—	6.3	6.9	+0.6
2.5-3.0	—	—	—	—	5.3	6.8	+1.4
3.5-4.0	—	—	—	—	3.9	3.4	-0.5
4.5-5.0	—	—	—	—	2.2	3.6	+1.4
5.5-6.0 (High)	—	—	—	—	4.0	2.5	-1.5
Race (2-year average):[b]							
White	—	—	—	—	—	4.7	—
Black	—	—	—	—	—	2.5	—
Hispanic	—	—	—	—	—	2.5	—

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 error.
See Table D-77 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 D-77.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-32
Vicodin: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

	Percentage who used in last twelve months									
	8th Grade					10th Grade				
	1991–99	2000–01	2002	2003	'02–'03 change	1991–99	2000–01	2002	2003	'02–'03 change
Approx. N =	—	—	*15100*	*16500*		—	—	*14300*	*15800*	
Total	—	—	2.5	2.8	+0.2	—	—	6.9	7.2	+0.3
Gender:										
Male	—	—	2.7	2.8	0.0	—	—	7.4	8.4	+1.0
Female	—	—	2.4	2.8	+0.4	—	—	6.1	6.1	-0.1
College Plans:										
None or under 4 years	—	—	5.9	6.3	+0.4	—	—	13.4	15.8	+2.4
Complete 4 years	—	—	2.1	2.4	+0.3	—	—	5.7	5.8	+0.1
Region:										
Northeast	—	—	1.5	1.1	-0.4	—	—	6.2	5.6	-0.6
North Central	—	—	3.3	3.9	+0.7	—	—	7.2	9.4	+2.2
South	—	—	2.5	2.1	-0.4	—	—	5.3	5.0	-0.2
West	—	—	2.6	4.2	+1.6	—	—	10.0	9.1	-0.9
Population Density:										
Large MSA	—	—	2.6	2.4	-0.2	—	—	5.7	7.1	+1.4
Other MSA	—	—	3.0	3.1	+0.1	—	—	7.9	6.4	-1.5
Non-MSA	—	—	1.6	2.5	+0.9	—	—	6.2	9.2	+3.0
Parental Education:[a]										
1.0-2.0 (Low)	—	—	3.3	3.3	+0.1	—	—	6.1	6.4	+0.3
2.5-3.0	—	—	3.9	3.4	-0.5	—	—	8.0	8.3	+0.3
3.5-4.0	—	—	3.4	2.9	-0.6	—	—	7.5	8.5	+1.0
4.5-5.0	—	—	1.4	2.1	+0.7	—	—	5.7	6.3	+0.6
5.5-6.0 (High)	—	—	1.3	2.1	+0.8	—	—	6.6	5.6	-1.0
Race (2-year average):[b]										
White	—	—	—	3.0	—	—	—	—	8.0	—
Black	—	—	—	1.4	—	—	—	—	3.1	—
Hispanic	—	—	—	2.1	—	—	—	—	6.5	—

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 error.
See Tables D-75 and D-76 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 Tables D-75 and D-76.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-33
Vicodin: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

	Percentage who used in last twelve months						
	Class of:						'02–'03
	1975–79	1980–89	1990–99	2000–01	2002	2003	change
Approx. N =	—	—	—	—	*12900*	*14600*	
Total	—	—	—	—	9.6	10.5	+0.9
Gender:							
Male	—	—	—	—	12.0	13.0	+1.0
Female	—	—	—	—	7.5	8.1	+0.6
College Plans:							
None or under 4 years	—	—	—	—	13.0	14.7	+1.7
Complete 4 years	—	—	—	—	8.4	9.1	+0.7
Region:							
Northeast	—	—	—	—	8.1	9.4	+1.4
North Central	—	—	—	—	11.6	13.2	+1.6
South	—	—	—	—	8.1	6.1	-2.0
West	—	—	—	—	10.9	16.3	+5.4s
Population Density:							
Large MSA	—	—	—	—	9.7	7.3	-2.4
Other MSA	—	—	—	—	10.6	12.2	+1.7
Non-MSA	—	—	—	—	7.8	11.4	+3.6
Parental Education:[a]							
1.0-2.0 (Low)	—	—	—	—	12.1	9.4	-2.8
2.5-3.0	—	—	—	—	9.6	10.8	+1.2
3.5-4.0	—	—	—	—	9.5	12.0	+2.5
4.5-5.0	—	—	—	—	9.9	9.7	-0.1
5.5-6.0 (High)	—	—	—	—	8.6	8.8	+0.2
Race (2-year average):[b]							
White	—	—	—	—	—	11.7	—
Black	—	—	—	—	—	3.3	—
Hispanic	—	—	—	—	—	7.1	—

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 error.
See Table D-77 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 D-77.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-34
Amphetamines: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months[a]

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	0.0	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	-1.7ss
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	-0.4	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	-1.8s
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	+0.4	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	-1.7s
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	+0.2	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	-1.8
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	0.0	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	-1.8ss
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	+0.7	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	-1.9
North Central	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	0.0	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	-0.7
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	-0.3	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	-2.0
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	-0.2	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	-1.5
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	-0.3	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	-3.6sss
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	-0.4	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	-1.5
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	+1.2	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	+1.0
Parental Education:[b]																												
1.0-2.0 (Low)	8.3	8.4	10.2	11.2	11.8	10.1	9.6	11.2	8.9	9.7	7.4	6.3	8.4	+2.1	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	-2.2
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	+0.1	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	-1.5
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	+0.3	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	-1.3
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	-0.7	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	-1.9s
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	-0.5	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	-1.7
Race (2-year average):[c]																												
White	—	6.8	7.4	8.1	9.3	10.2	9.9	9.0	8.4	8.0	7.8	7.2	6.4	-0.8	—	9.4	10.1	11.0	12.4	13.9	14.2	13.6	12.6	12.7	13.4	13.4	12.2	-1.2
Black	—	3.3	3.4	3.9	3.9	3.4	3.0	2.8	2.7	2.4	2.3	2.7	2.5	-0.2	—	2.8	3.0	4.0	4.0	3.4	3.1	2.9	2.8	2.5	2.9	3.5	2.8	-0.7
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	-0.9	—	6.2	7.0	7.7	8.9	10.3	9.8	8.9	8.8	9.1	8.3	7.9	7.7	-0.2

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Only drug use not under a doctor's orders is included here.

[b]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-35
Amphetamines, Adjusted: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last twelve months[a]

	Class of:																												'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
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	9.3	9.5	10.2	10.1	10.2	10.5	10.9	11.1	9.9	-1.3s
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	9.5	9.6	10.1	10.3	10.6	10.4	10.9	11.3	9.8	-1.5
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	8.9	8.8	10.2	9.8	9.6	10.5	10.6	10.7	9.5	-1.2
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	12.3	12.8	14.1	13.6	12.7	13.9	14.4	14.8	14.4	-0.4
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	8.3	8.4	8.9	9.0	9.5	9.6	9.8	10.1	8.4	-1.7s
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	9.6	10.4	11.1	9.0	9.9	10.6	12.0	11.5	9.7	-1.8
North Central	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	9.5	10.0	10.8	11.0	10.5	10.4	12.7	11.3	10.3	-1.0
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	9.2	9.1	9.8	10.4	10.8	10.2	9.5	11.7	9.7	-2.0
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	8.9	8.3	9.1	9.6	8.8	10.9	9.7	9.6	9.7	+0.1
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	9.1	7.9	8.9	9.0	7.0	8.3	10.6	10.7	7.5	-3.2ss
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	8.5	8.9	9.5	9.9	10.8	10.9	10.8	11.0	10.5	-0.4
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	10.8	11.9	13.0	12.2	12.4	12.4	11.4	12.1	11.7	-0.4
Parental Education:[b] (Low)																														
1.0-2.0	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	9.9	8.1	9.8	9.7	9.9	11.0	8.9	8.1	10.6	+2.5
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	9.9	10.5	10.3	10.6	11.3	11.0	12.2	11.4	9.9	-1.5
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	9.1	9.3	10.8	11.4	10.8	10.6	11.6	12.3	10.7	-1.6
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	9.2	8.9	9.4	9.4	9.7	10.3	10.7	11.1	9.4	-1.7
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	8.1	9.1	10.2	8.7	8.4	10.2	8.7	10.2	7.7	-2.5
Race (2-year average)[c]																														
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	10.7	10.5	11.4	12.1	11.9	11.9	12.6	13.2	12.4	-0.8
Black	—	—	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	3.4	2.9	2.8	2.8	2.5	2.6	3.0	2.9	2.8	-0.1
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	7.1	7.8	7.3	7.0	7.6	9.2	9.2	7.9	6.8	-1.1

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]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. (In 1982 and 1983, these data were based on three of the five questionnaire forms.) Only drug use not under a doctor's orders is included here.

[b]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-36
Ritalin: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

	Percentage who used in last twelve months											
	8th Grade						10th Grade					
	1991–99	2000	2001	2002	2003	'02–'03 change	1991–99	2000	2001	2002	2003	'02–'03 change
Approx. N =	—	—	*16200*	*15100*	*16500*		—	—	*14000*	*14300*	*15800*	
Total	—	—	2.9	2.8	2.6	-0.2	—	—	4.8	4.8	4.1	-0.8
Gender:												
Male	—	—	3.2	3.2	2.9	-0.3	—	—	5.2	4.9	4.2	-0.7
Female	—	—	2.6	2.5	2.3	-0.2	—	—	4.3	4.6	3.8	-0.8
College Plans:												
None or under 4 years	—	—	8.1	7.7	6.8	-1.0	—	—	7.2	10.2	11.0	+0.9
Complete 4 years	—	—	2.4	2.2	2.1	-0.1	—	—	4.3	3.8	2.9	-0.9
Region:												
Northeast	—	—	1.5	2.8	1.7	-1.1	—	—	5.5	3.6	3.8	+0.2
North Central	—	—	3.0	3.0	2.9	0.0	—	—	4.6	4.8	4.2	-0.5
South	—	—	3.5	2.8	2.9	+0.1	—	—	5.3	5.2	4.2	-1.0
West	—	—	2.9	2.5	2.2	-0.4	—	—	3.1	5.1	3.9	-1.2
Population Density:												
Large MSA	—	—	2.2	2.3	2.3	0.0	—	—	4.3	3.6	4.0	+0.4
Other MSA	—	—	2.9	3.1	2.8	-0.3	—	—	4.6	5.8	3.7	-2.1s
Non-MSA	—	—	3.5	2.8	2.4	-0.5	—	—	5.8	4.3	5.1	+0.8
Parental Education:[a]												
1.0-2.0 (Low)	—	—	4.8	5.3	2.5	-2.8	—	—	5.0	7.7	4.2	-3.5
2.5-3.0	—	—	3.3	4.0	2.8	-1.2	—	—	5.4	5.9	5.0	-0.8
3.5-4.0	—	—	3.5	3.3	3.3	+0.1	—	—	5.0	4.2	4.1	-0.1
4.5-5.0	—	—	2.4	1.5	1.8	+0.3	—	—	4.2	3.6	3.7	+0.1
5.5-6.0 (High)	—	—	2.1	1.7	2.1	+0.4	—	—	4.6	4.7	3.3	-1.5
Race (2-year average):[b]												
White	—	—	—	3.0	2.8	-0.2	—	—	—	5.5	4.8	-0.6
Black	—	—	—	1.0	1.3	+0.3	—	—	—	1.8	2.5	+0.7
Hispanic	—	—	—	3.8	2.7	-1.1	—	—	—	3.1	4.4	+1.3

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 error.
See Tables D-75 and D-76 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 Tables D-75 and D-76.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-37
Ritalin: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

	Percentage who used in last twelve months							
	Class of:							'02–'03
	1975–79	1980–89	1990–99	2000	2001	2002	2003	change
Approx. N =	—	—	—	—	*12800*	*12900*	*14600*	
Total	—	—	—	—	5.1	4.0	4.0	0.0
Gender:								
Male	—	—	—	—	6.0	5.1	5.5	+0.4
Female	—	—	—	—	4.1	2.8	2.6	-0.2
College Plans:								
None or under 4 years	—	—	—	—	6.4	7.7	4.4	-3.4s
Complete 4 years	—	—	—	—	4.7	3.0	3.7	+0.7
Region:								
Northeast	—	—	—	—	4.7	4.5	4.6	0.0
North Central	—	—	—	—	7.4	5.4	3.8	-1.6
South	—	—	—	—	4.1	3.4	3.5	+0.1
West	—	—	—	—	3.8	2.6	4.4	+1.8
Population Density:								
Large MSA	—	—	—	—	7.2	3.9	3.2	-0.7
Other MSA	—	—	—	—	3.7	4.0	5.1	+1.1
Non-MSA	—	—	—	—	5.4	4.0	2.9	-1.0
Parental Education:[a]								
1.0-2.0 (Low)	—	—	—	—	5.6	5.3	3.1	-2.3
2.5-3.0	—	—	—	—	4.5	4.2	3.7	-0.5
3.5-4.0	—	—	—	—	5.0	3.9	4.8	+0.9
4.5-5.0	—	—	—	—	4.7	3.5	3.5	0.0
5.5-6.0 (High)	—	—	—	—	6.6	3.9	4.0	+0.1
Race (2-year average):[b]								
White	—	—	—	—	—	5.4	4.6	-0.8
Black	—	—	—	—	—	0.8	1.2	+0.4
Hispanic	—	—	—	—	—	3.1	3.3	+0.2

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 error.
See Table D-77 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 D-77.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-38
Methamphetamine: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

	Percentage who used in last twelve months													
	8th Grade							10th Grade						
	1991–98	1999	2000	2001	2002	2003	'02–'03 change	1991–98	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	—	*16700*	*16700*	*16200*	*15100*	*16500*		—	*13600*	*14300*	*14000*	*14300*	*15800*	
Total	—	3.2	2.5	2.8	2.2	2.5	+0.4	—	4.6	4.0	3.7	3.9	3.3	-0.6
Gender:														
Male	—	3.1	2.2	2.5	2.0	2.0	0.0	—	4.5	4.5	3.8	3.9	3.0	-0.8
Female	—	3.2	2.8	3.0	2.4	3.0	+0.5	—	4.7	3.6	3.5	3.6	3.7	0.0
College Plans:														
None or under 4 years	—	7.4	6.8	6.6	6.6	7.9	+1.3	—	9.1	8.8	7.0	9.1	9.4	+0.3
Complete 4 years	—	2.7	2.0	2.3	1.7	2.0	+0.3	—	3.9	3.3	3.1	3.0	2.3	-0.7
Region:														
Northeast	—	1.6	2.0	1.2	0.8	1.7	+0.9	—	5.1	4.1	2.3	1.5	2.1	+0.5
North Central	—	4.4	3.0	3.2	2.5	3.5	+1.0	—	4.6	4.0	3.8	3.0	3.4	+0.4
South	—	3.4	2.4	3.4	2.8	2.4	-0.4	—	4.0	3.8	4.0	4.6	3.8	-0.9
West	—	2.8	2.5	2.4	2.0	2.4	+0.4	—	5.1	4.4	4.6	5.8	3.8	-1.9
Population Density:														
Large MSA	—	2.2	2.1	1.6	1.3	2.0	+0.7	—	3.8	4.4	4.0	3.1	2.3	-0.8
Other MSA	—	3.6	2.6	3.4	2.5	2.4	-0.1	—	4.8	3.4	3.6	4.4	3.8	-0.6
Non-MSA	—	3.5	3.0	2.8	2.7	3.4	+0.7	—	5.2	4.8	3.6	3.7	3.7	0.0
Parental Education:[a]														
1.0-2.0 (Low)	—	6.3	5.0	4.4	4.3	4.2	0.0	—	7.2	7.0	5.6	6.2	7.3	+1.2
2.5-3.0	—	4.3	3.1	4.0	3.0	3.4	+0.4	—	4.2	4.3	4.6	4.9	4.1	-0.8
3.5-4.0	—	3.3	2.4	3.0	2.0	2.5	+0.4	—	4.8	4.3	3.2	3.7	3.2	-0.5
4.5-5.0	—	1.9	1.3	1.6	1.9	1.6	-0.2	—	4.8	3.5	3.6	2.4	2.2	-0.1
5.5-6.0 (High)	—	3.2	2.2	1.2	1.1	2.3	+1.2	—	3.3	3.5	2.5	4.0	2.1	-1.9
Race (2-year average):[b]														
White	—	—	3.2	3.1	2.8	2.7	-0.2	—	—	4.7	4.1	4.1	4.2	0.0
Black	—	—	1.1	0.8	0.6	0.8	+0.3	—	—	0.4	1.0	1.1	0.6	-0.5
Hispanic	—	—	4.0	3.3	3.2	3.2	0.0	—	—	3.9	3.0	4.4	4.6	+0.3

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 error.
See Tables D-75 and D-76 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 Tables D-75 and D-76.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-39
Methamphetamine: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

	Percentage who used in last twelve months								
	Class of:								'02–'03
	1975–79	1980–89	1990–98	1999	2000	2001	2002	2003	change
Approx. N =	—	—	—	*1360*	*0012*	*8000*	*1280*	*0012*	*9000*
Total	—	—	—	4.7	4.3	3.9	3.6	3.2	-0.5
Gender:									
Male	—	—	—	5.0	4.4	4.3	4.3	3.6	-0.6
Female	—	—	—	4.5	4.2	3.4	3.0	2.9	-0.2
College Plans:									
None or under 4 years	—	—	—	6.8	6.2	6.9	6.5	5.8	-0.8
Complete 4 years	—	—	—	4.0	3.8	3.2	2.7	2.4	-0.4
Region:									
Northeast	—	—	—	3.1	4.5	3.4	1.6	1.8	+0.2
North Central	—	—	—	5.1	4.1	4.7	4.5	4.2	-0.3
South	—	—	—	3.9	3.7	3.4	3.0	2.8	-0.2
West	—	—	—	7.1	5.4	4.4	5.4	4.0	-1.4
Population Density:									
Large MSA	—	—	—	4.2	3.6	2.7	2.1	1.8	-0.4
Other MSA	—	—	—	4.0	4.9	4.0	4.4	3.0	-1.4s
Non-MSA	—	—	—	6.4	4.3	5.3	4.1	5.3	+1.2
Parental Education:[a]									
1.0-2.0 (Low)	—	—	—	6.0	7.7	5.0	3.5	4.3	+0.8
2.5-3.0	—	—	—	4.8	3.5	4.8	4.9	3.6	-1.3
3.5-4.0	—	—	—	5.2	3.9	3.8	3.8	3.6	-0.2
4.5-5.0	—	—	—	3.7	4.2	3.1	2.9	2.9	0.0
5.5-6.0 (High)	—	—	—	4.2	5.5	3.2	3.1	1.0	-2.1s
Race (2-year average):[b]									
White	—	—	—	—	4.9	4.6	4.2	3.5	-0.7
Black	—	—	—	—	1.1	1.0	0.5	1.4	+1.0
Hispanic	—	—	—	—	4.9	4.6	3.9	3.4	-0.5

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 error.
See Table D-77 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 D-77.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-40
Ice (Crystal Methamphetamine): Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

	Percentage who used in last twelve months																
	Class of:																'02–'03
	1975–79	1980–89	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N =	—	—	*1520*	*0015*	*0001*	*5800*	*1630*	*0015*	*4001*	*5400*	*1543*	*0015*	*4001*	*5200*	*1360*	*0012*	*8001*	*2800*	*1290*	*0014*	*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	-1.1ss
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	-1.0
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	-1.0
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	-2.2s
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	-0.7
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	-1.3
North Central	—	—	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	-0.9
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	-1.2
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	-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	-0.3
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	-1.6ss
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	-1.1
Parental Education:[a]																	
1.0-2.0 (Low)	—	—	1.1	1.0	0.9	1.6	1.0	3.2	3.4	2.2	2.8	3.6	3.2	5.9	3.7	3.7	0.0
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	-1.9s
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	-0.2
4.5-5.0	—	—	1.2	1.8	1.4	1.8	1.3	2.5	2.9	2.9	2.6	1.3	2.8	1.5	2.8	1.5	-1.3
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	-1.1
Race (2-year average):[b]																	
White	—	—	—	1.3	1.3	1.5	1.7	2.0	2.5	2.6	2.9	2.8	2.3	2.4	2.6	2.3	-0.3
Black	—	—	—	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	-0.2
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	-1.1

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 error.
See Table D-77 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 D-77.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

Ice (Crystal Methamphetamine): Annual prevalence of use by subgroups is not asked of 8th and 10th graders.

TABLE D-41
Sedatives (Barbiturates): Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last twelve months[a]

	Class of:																												'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
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	4.7	4.9	5.1	5.5	5.8	6.2	5.7	6.7	6.0	-0.7
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	5.1	5.2	5.3	6.3	6.3	6.9	6.3	7.4	6.7	-0.7
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	4.2	4.4	4.8	4.8	5.3	5.4	5.1	5.9	5.4	-0.5
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	5.9	6.7	6.6	6.9	7.0	7.0	7.1	9.8	9.6	-0.2
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	4.4	4.3	4.6	5.1	5.5	6.0	5.4	6.0	5.1	-0.8s
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	4.1	5.6	5.7	5.5	4.7	5.6	5.3	5.9	4.8	-1.1
North Central	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	4.5	4.9	4.4	4.8	6.0	5.2	5.6	6.4	5.1	-1.3
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	5.3	5.4	5.8	6.8	6.8	7.5	6.1	8.4	7.1	-1.3
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	4.3	3.3	4.2	4.2	4.9	5.7	5.6	5.1	6.5	+1.4
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	4.1	3.6	4.2	4.6	3.7	5.1	5.9	6.5	4.2	-2.3ss
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	4.9	5.4	5.0	5.6	6.2	6.6	6.1	6.7	6.6	-0.2
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	5.0	5.4	6.4	6.8	7.4	6.8	4.9	7.0	7.4	+0.4
Parental Education:[b]																														
(Low)																														
1.0-2.0	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	4.9	4.8	4.3	6.4	7.5	5.2	6.3	5.1	6.7	+1.6
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	5.2	4.9	4.9	6.3	6.2	7.1	5.3	7.1	6.5	-0.6
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	4.6	4.9	6.0	5.6	6.4	5.8	6.1	7.7	7.2	-0.4
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	4.4	5.0	5.1	5.0	5.0	6.7	5.9	6.3	4.7	-1.5s
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	4.1	4.6	4.6	5.0	5.1	5.5	5.8	6.6	4.3	-2.3s
Race (2-year average):[c]																														
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	4.9	5.4	5.9	6.5	6.7	6.9	7.0	7.5	7.6	+0.1
Black	—	—	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	1.6	1.1	1.0	1.4	1.4	1.3	1.5	1.4	1.7	+0.3
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	3.5	4.0	3.7	3.3	4.0	5.1	4.7	4.5	4.1	-0.4

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Only drug use not under a doctor's orders is included here.

[b]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

Sedatives (Barbiturates): Annual prevalence of use by subgroups is not reported for 8th and 10th graders.

TABLE D-42
Tranquilizers: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months[a]

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001[b]	2002[b]	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001[b]	2002[b]	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	+0.1	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	-1.0s
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	0.0	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	-1.0
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	+0.2	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	-1.1s
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	-0.2	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	-2.4
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	+0.2	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	-0.8s
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	0.0	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	-0.3
North Central	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	-0.2	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	-1.0
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	0.0	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	-0.6
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	+0.7	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	-1.7s
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	-0.2	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	-1.2
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	+0.1	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	-1.1
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	+0.5	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	-0.3
Parental Education:[c]																												
1.0-2.0 (Low)	3.6	3.8	2.5	3.2	3.9	4.9	4.3	5.5	5.0	5.6‡	3.7	5.0	3.9	-1.0	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	+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	-0.2	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	-0.2
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	+0.6	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	-1.0
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	+0.1	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	-1.8ss
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	0.0	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	-1.2
Race (2-year average):[d]																												
White	—	2.0	2.0	2.2	2.7	3.2	3.4	3.1	2.9	3.0	3.0‡	3.0[e]	2.8	-0.2	—	4.0	3.8	3.6	4.1	4.9	5.6	6.0	6.1	6.4	7.0‡	7.6[e]	7.4	-0.2
Black	—	0.9	1.1	1.2	1.2	1.3	1.2	0.9	0.7	0.5	0.5‡	0.6[e]	1.0	+0.4	—	0.9	0.9	0.9	0.8	0.7	0.9	1.0	1.2	1.1	1.5‡	1.5[e]	1.3	-0.2
Hispanic	—	2.7	3.1	3.4	3.3	3.5	3.5	3.4	3.5	3.5	3.6‡	3.8[e]	3.4	-0.4	—	2.9	3.3	3.1	3.1	3.4	3.5	3.5	3.7	4.0	4.0‡	4.3[e]	4.4	+0.1

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 of use estimates for the two most recent classes is due to rounding error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Only drug use not under a doctor's orders is included here.

[b]In 2001, for the tranquilizer list of examples, Miltown was replaced with Xanax in half of the questionnaire forms for each grade. 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.

[c]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

[e]The 2002 data comprise half of the 2001 sample data double-weighted and all of the 2002 sample data.

TABLE D-43
Tranquilizers: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last twelve months[a]

	Class of:																													'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001[b]	2002[b]	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
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	4.4	4.6	4.7	5.5	5.8	5.7‡	6.9	7.7	6.7	-1.0s
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	4.7	5.0	5.4	6.3	6.9	6.4‡	7.9	8.4	6.9	-1.5s
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	4.1	4.0	3.9	4.7	4.8	4.9‡	5.8	6.9	6.3	-0.6
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	5.6	5.6	6.2	6.8	6.4	6.7‡	7.6	9.9	9.6	-0.3
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	4.1	4.2	4.0	5.1	5.6	5.2‡	6.7	7.1	6.0	-1.1s
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	3.9	4.8	5.3	4.9	5.6	5.2‡	5.7	6.8	5.4	-1.4
North Central	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	4.0	4.4	3.5	3.7	5.1	4.7‡	8.1	6.5	5.5	-1.0
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	5.0	5.3	5.4	7.5	7.6	6.7‡	7.4	10.4	8.5	-1.9s
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	4.3	3.0	4.3	4.4	3.9	5.6‡	5.5	5.8	6.6	+0.9
Population Density:																														
Large	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	4.0	3.7	4.2	4.8	4.0	4.7‡	7.9	7.8	4.7	-3.1sss
Other	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	4.5	4.9	4.8	5.7	6.6	6.2‡	6.4	8.2	7.8	-0.4
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	4.8	4.7	5.1	5.9	6.5	6.0‡	6.7	6.8	7.4	+0.7
Parental Education:[c] (Low)																														
1.0-2.0	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	3.4	4.0	3.9	3.3	4.2	3.9	4.2	3.9	6.4	5.2	6.4‡	5.4	5.2	7.1	1.9
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	3.2	3.6	2.8	3.3	3.5	4.7	4.0	4.3	5.2	6.2	5.3‡	6.7	7.9	6.5	-1.4
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	4.4	3.1	2.7	3.5	3.6	4.3	4.7	4.6	6.0	6.4	5.6‡	7.7	8.4	7.6	-0.8
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	3.1	3.9	3.0	3.4	3.7	4.5	4.6	5.4	4.9	5.4	5.9‡	7.4	7.9	5.9	-2.0s
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	4.0	2.2	4.2	4.2	4.1	5.3	5.1	5.5	5.6	5.8‡	6.0	7.9	6.2	-1.7
Race (2-year average):[d]																														
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	4.6	5.1	5.5	6.2	6.8	6.9	7.7‡	9.2[e]	8.7	-0.5
Black	—	—	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	1.2	0.9	0.8	1.0	1.0	0.7	0.6‡	1.1[e]	1.3	+0.2
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	3.5	4.3	3.8	3.3	3.5	4.3	3.9‡	4.1[e]	4.5	+0.5

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 of use estimates for the two most recent classes is due to rounding error. See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Only drug use not under a doctor's orders is included here.

[b]In 2001, for the tranquilizer list of examples, Miltown was replaced with Xanax in half of the questionnaire forms. 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.

[c]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

[e]The 2002 data comprise half of the 2001 sample data double-weighted and all of the 2002 sample data.

TABLE D-44
Rohypnol: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months

	8th Grade										10th Grade									
	1991–95	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991–95	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	—	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		—	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
Total	—	1.0	0.8	0.8	0.5	0.5	0.7	0.3	0.5	+0.2	—	1.1	1.3	1.2	1.0	0.8	1.0	0.7	0.6	-0.1
Gender:																				
Male	—	1.1	0.7	0.8	0.6	0.5	0.6	0.2	0.4	+0.1	—	1.1	1.4	1.4	1.2	1.0	1.1	0.4	0.7	+0.3
Female	—	1.0	0.9	0.9	0.2	0.6	0.7	0.2	0.4	+0.2	—	1.1	1.1	1.1	0.9	0.6	0.9	0.9	0.6	-0.3
College Plans:																				
None or under 4 years	—	2.5	1.5	3.0	0.9	2.2	2.0	1.0	1.3	+0.3	—	2.9	2.7	2.9	2.8	1.4	2.8	0.5	0.3	-0.2
Complete 4 years	—	0.8	0.7	0.6	0.4	0.4	0.5	0.2	0.4	+0.1	—	0.8	1.1	0.9	0.8	0.6	0.7	0.7	0.6	-0.2
Region:																				
Northeast	—	0.9	0.3	0.9	0.3	0.6	0.9	0.2	0.2	0.0	—	0.6	0.7	0.9	0.4	0.6	0.9	0.4	1.0	+0.6
North Central	—	0.9	0.8	0.8	0.3	0.4	1.0	0.4	0.2	-0.2	—	0.5	0.8	1.0	0.9	0.4	0.9	0.3	0.2	0.0
South	—	1.3	1.1	0.9	0.7	0.9	0.6	0.4	0.6	+0.2	—	1.9	2.4	2.0	1.8	1.2	1.0	0.4	0.8	+0.4
West	—	1.0	0.7	0.8	0.5	*	0.4	0.1	0.7	+0.6	—	1.1	0.6	0.5	0.6	0.7	1.3	2.0	0.4	-1.6s
Population Density:																				
Large MSA	—	1.2	0.8	0.7	0.4	0.9	1.2	0.1	0.1	0.0	—	1.1	1.3	1.3	0.9	0.9	1.2	0.7	0.3	-0.3
Other MSA	—	1.1	0.9	1.0	0.6	0.5	0.5	0.3	0.4	+0.1	—	1.4	1.3	1.3	1.3	0.9	0.8	0.9	0.4	-0.5
Non-MSA	—	0.8	0.7	0.8	0.3	0.2	0.4	0.5	1.0	+0.5	—	0.6	1.3	1.0	0.7	0.5	1.2	0.3	1.5	+1.2
Parental Education:[a]																				
1.0-2.0 (Low)	—	2.0	2.1	2.2	0.2	0.9	1.3	0.9	1.8	+0.9	—	1.7	1.3	1.7	1.2	1.3	2.3	0.4	1.3	+1.0
2.5-3.0	—	1.1	1.1	0.8	0.3	0.8	0.3	0.0	0.9	+0.9	—	1.0	1.1	1.6	1.6	0.5	1.1	0.9	0.7	-0.2
3.5-4.0	—	1.2	0.7	0.9	0.6	0.2	1.2	0.2	0.1	-0.1	—	1.5	1.6	1.0	0.8	0.8	0.7	1.0	0.9	-0.2
4.5-5.0	—	0.8	0.6	0.6	0.5	0.4	0.7	0.6	0.4	-0.2	—	0.7	1.5	0.9	0.6	0.7	1.1	0.7	0.2	-0.5
5.5-6.0 (High)	—	0.8	0.5	0.9	0.7	0.9	0.2	0.2	0.0	-0.2	—	1.1	0.8	1.3	1.1	0.8	0.3	0.2	0.4	+0.3
Race (2-year average):[b]																				
White	—	—	0.9	0.8	0.7	0.5	0.6	0.5	0.4	-0.1	—	—	1.4	1.5	1.5	1.0	1.0	1.0	0.6	-0.3
Black	—	—	0.4	0.4	0.4	0.3	0.4	0.4	0.3	-0.1	—	—	0.1	0.1	0.1	0.1	0.2	0.3	0.1	-0.1
Hispanic	—	—	1.4	1.5	1.5	0.6	0.9	0.8	0.4	-0.5	—	—	1.0	1.2	1.1	0.7	0.9	1.0	0.7	-0.3

NOTES: Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available.
'*' indicates less than .05 percent but greater than 0 percent.
Any apparent inconsistency between the change estimate and the prevalence of use estimates for the two most recent classes is due to rounding error.
See Tables D-75 and D-76 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 Tables D-75 and D-76. Data based on three of four forms in 1997–98; N is two-thirds of N indicated in Tables D-75 and D-76. Data based on two of four forms in 1999–2001; N is one-third of N indicated in Tables D-75 and D-76. Data based on one of four forms beginning in 2002; N is one-sixth of N indicated in Tables D-75 and D-76.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-45
Rohypnol: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

	Percentage who used in last twelve months											
	Class of:											'02–'03
	1975–79	1980–89	1990–95	1996	1997	1998	1999	2000	2001	2002[a]	2003	change
Approx. N =	—	—	—	*14300*	*15400*	*15200*	*13600*	*12800*	*12800*	*12900*	*14600*	
Total	—	—	—	1.1	1.2	1.4	1.0	0.8	0.9‡	1.6	1.3	-0.3
Gender:												
Male	—	—	—	1.8	1.2	1.7	1.0	0.8	1.1‡	2.3	2.0	-0.2
Female	—	—	—	0.3	1.1	1.1	1.0	0.7	0.6‡	1.0	0.5	-0.5
College Plans:												
None or under 4 years	—	—	—	1.4	0.5	1.8	1.0	0.1	1.2‡	2.5	2.1	-0.3
Complete 4 years	—	—	—	0.8	1.3	1.3	1.0	0.9	0.8‡	1.4	0.9	-0.4
Region:												
Northeast	—	—	—	0.9	0.6	1.2	0.8	0.3	1.7‡	1.2	1.4	+0.2
North Central	—	—	—	1.0	0.5	1.0	0.8	0.9	0.5‡	1.8	1.2	-0.6
South	—	—	—	1.8	2.2	2.6	1.6	1.3	1.0‡	1.5	1.4	-0.1
West	—	—	—	0.1	0.8	0.0	0.2	0.1	0.8‡	2.0	1.1	-0.9
Population Density:												
Large MSA	—	—	—	1.3	0.9	0.8	0.3	0.3	1.0‡	1.6	1.1	-0.6
Other MSA	—	—	—	1.3	1.5	2.2	1.4	1.1	1.2‡	2.0	1.7	-0.3
Non-MSA	—	—	—	0.7	0.7	0.6	0.9	0.7	0.3‡	1.1	0.9	-0.2
Parental Education:[b]												
1.0-2.0 (Low)	—	—	—	1.6	0.4	0.6	4.7	0.0	4.2‡	3.7	2.8	-0.9
2.5-3.0	—	—	—	0.5	0.6	1.0	0.3	0.4	0.4‡	2.9	1.8	-1.1
3.5-4.0	—	—	—	0.8	1.4	1.1	1.1	1.5	0.8‡	0.8	1.2	+0.4
4.5-5.0	—	—	—	0.9	1.7	2.7	0.3	0.6	0.8‡	1.6	0.9	-0.7
5.5-6.0 (High)	—	—	—	1.8	1.7	1.4	0.7	0.0	0.2‡	0.8	0.2	-0.6
Race (2-year average):[c]												
White	—	—	—	—	1.2	1.6	1.5	0.9	0.8‡	—	1.5	—
Black	—	—	—	—	0.1	0.0	0.2	0.4	0.2‡	—	0.8	—
Hispanic	—	—	—	—	2.0	1.3	1.0	0.6	1.3‡	—	1.6	—

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 of use estimates for the two most recent classes is due to rounding error.
See Table D-77 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 D-77. Data based on two of six forms beginning in 2002; N is two-sixths of N indicated in Table D-77.

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

CAUTION: Limited sample sizes (see "Notes" above). Use caution in interpreting subgroup trends.

[a]The 2001 and 2002 data are not comparable due to changes in the questionnaire forms.

[b]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-46
Alcohol: Trends in Thirty-Day Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last thirty days

	8th Grade														10th Grade													
	1991	1992	1993[a]	1994[a]	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993[a]	1994[a]	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	+0.1	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	0.0
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	+0.4	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	0.0
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	-0.2	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	-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	0.0	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	-0.5
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	-0.1	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	+0.1
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	-0.9	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	+2.4
North Central	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	+2.8	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	-1.3
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	-0.8	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	+1.1
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	-1.0	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	-3.2
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	+0.8	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	+1.1
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	-0.6	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	+0.4
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	+0.9	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	-2.1
Parental Education:[b]																												
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	-2.2	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	+0.3
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	+0.8	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	-0.6
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	+0.8	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	+0.2
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	-1.0	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	-1.1
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	+0.6	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	+2.0
Race (2-year average):[c]																												
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	-1.4	—	44.1	43.1‡	40.4	41.0	42.2	43.0	42.7	43.0	43.9	42.7	40.0	38.7	-1.3
Black	—	18.6	19.7‡	19.4	18.7	18.1	17.9	16.1	16.1	16.0	15.0	14.8	15.5	+0.8	—	30.2	29.3‡	29.7	28.0	23.9	24.6	25.1	24.4	24.7	25.3	24.3	23.7	-0.6
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	-1.2	—	41.0	39.9‡	37.7	40.5	44.0	42.8	39.4	39.6	40.5	40.2	37.9	37.1	-0.8

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 of use estimates for the two most recent classes is due to rounding error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]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 forms 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.

[b]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-47
Alcohol: Trends in Thirty-Day Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last thirty days

	Class of:																													'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993[a]	1994[a]	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
Total	68.2	68.3	71.2	72.1	71.8	72.0	70.7	69.7	69.4	67.2	65.9	65.3	66.4	63.9	60.0	57.1	54.0	51.3‡	48.6	50.1	51.3	50.8	52.7	52.0	51.0	50.0	49.8	48.6	47.5	-1.0
Gender:																														
Male	75.0	74.5	77.8	77.5	76.7	77.4	75.7	74.1	74.4	71.4	69.8	69.0	69.9	68.0	65.1	61.3	58.4	55.8‡	54.2	55.5	55.7	54.8	56.2	57.3	55.3	54.0	54.7	52.3	51.7	-0.6
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	47.0	46.9	48.9	46.9	46.8	46.1	45.1	45.1	43.8	-1.3
College Plans:																														
None or under 4 years	—	69.9	72.8	72.7	72.2	73.5	72.1	71.6	70.5	69.0	67.9	66.6	68.6	65.0	61.6	58.7	57.1	54.9‡	52.4	53.6	55.9	54.8	56.1	56.0	55.2	54.3	55.5	53.0	55.4	+2.4
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	49.6	49.3	51.4	50.9	49.8	48.3	47.9	47.4	45.2	-2.2
Region:																														
Northeast	76.9	75.7	76.6	78.0	81.1	79.4	80.4	76.7	74.4	73.6	72.3	67.6	69.1	66.7	61.7	65.3	59.6	51.5‡	56.1	53.1	55.0	56.5	56.7	56.2	57.2	58.0	54.3	50.9	51.6	+0.7
North Central	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	55.3	51.5	51.5	51.9	51.1	52.3	54.5	52.1	50.8	-1.4
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	50.6	51.1	51.1	51.4	49.5	44.9	45.9	46.8	43.0	-3.8
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	43.2	42.1	52.7	49.2	47.8	48.3	44.9	45.0	47.0	+1.9
Population Density:																														
Large	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	50.6	51.6	51.1	49.1	48.9	51.2	49.7	50.3	43.0	-7.3sss
Other	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	50.6	50.1	53.4	53.9	52.8	48.8	49.6	48.8	49.6	+0.8
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	53.4	51.4	52.9	51.6	50.1	50.8	50.0	45.9	49.6	+3.7
Parental Education:[b] (Low)																														
1.0-2.0	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	45.9	41.2	43.8	43.8	46.8	43.4	42.9	42.2	43.6	+1.4
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	52.0	48.2	51.0	50.1	50.5	50.0	49.0	47.9	47.8	-0.2
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	50.6	51.4	52.1	55.6	51.1	51.3	51.4	50.9	47.9	-3.0
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	51.8	53.6	55.3	52.4	50.2	48.1	51.5	48.9	47.5	-1.4
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	55.1	54.2	57.4	54.7	56.0	54.0	49.5	51.1	49.3	-1.8
Race (2-year average):[c]																														
White	—	—	72.8	75.0	75.3	75.4	75.4	74.6	73.9	72.8	71.2	70.2	71.0	70.6	67.3	63.8	60.0	56.8	55.6‡	54.0	54.5	54.8	56.4	57.7	56.3	55.1	55.3	54.0	52.3	-1.7
Black	—	—	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	35.2	36.5	34.3	33.3	32.2	30.0	29.4	30.1	29.9	-0.3
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	48.7	47.5	48.2	49.8	50.2	51.2	48.9	47.5	46.4	-1.1

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 of use estimates for the two most recent classes is due to rounding error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]In 1993, the question text was changed slightly in three of six forms to indicate that a "drink" meant "more than a few sips." The 1993 data are based on the changed forms only; N is one-half 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.

[b]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-48
Been Drunk: Trends in Thirty-Day Prevalence by Subgroups for Eighth and Tenth Graders

Percentage who had been drunk in last thirty days

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	+0.1	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	-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	-0.5	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	-0.4
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	+0.5	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	+0.4
College Plans:																												
None or under 4 years	15.8	17.2	18.4	20.0	17.2	19.3	18.7	21.4	22.4	18.9	18.9	15.5	17.0	+1.6	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	0.0
Complete 4 years	6.4	6.1	6.4	7.3	7.3	8.2	7.1	6.9	8.0	7.0	6.5	5.9	5.7	-0.1	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	0.0
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	-0.4	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	+2.2
North Central	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	+1.1	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	+0.1
South	8.8	8.2	8.3	8.8	8.4	9.1	8.3	7.8	9.5	7.4	8.1	7.6	7.2	-0.5	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	+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	+0.1	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	-3.0
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	+0.4	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	-0.8
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	-0.5	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	+0.5
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	+0.7	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	0.0
Parental Education:[a]																												
1.0-2.0 (Low)	13.4	11.0	10.4	12.5	13.1	11.1	11.5	13.1	14.5	14.0	12.1	10.5	13.4	+2.9	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	+1.7
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	+0.9	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	-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	+0.4	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	-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	-1.0	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	+0.1
5.5-6.0 (High)	6.8	4.9	6.7	7.6	6.0	7.1	5.8	6.9	8.7	7.1	4.6	4.8	4.2	-0.6	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	+0.9
Race (2-year average):[b]																												
White	—	7.7	7.8	8.4	8.9	9.7	9.7	9.1	9.8	10.0	9.0	8.0	7.2	-0.9	—	21.6	20.8	22.0	22.7	23.7	25.0	25.5	25.7	26.7	25.8	23.2	21.9	-1.3
Black	—	5.4	5.1	5.6	5.6	5.5	4.6	3.9	4.9	4.7	4.0	4.0	4.2	+0.2	—	9.4	10.3	10.1	9.8	8.5	8.6	8.8	7.6	8.6	9.5	8.6	8.0	-0.6
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	+0.1	—	16.2	15.9	17.0	18.6	20.1	19.5	18.0	17.8	18.0	18.7	17.4	15.7	-1.6

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-49
Been Drunk: Trends in Thirty-Day Prevalence by Subgroups for Twelfth Graders

Percentage who had been drunk in last thirty days

	Class of:																'02–'03
	1975–79	1980–89	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N =	—	—	—	*1500*	*1580*	*1630*	*1540*	*1540*	*1430*	*1540*	*1520*	*1360*	*1280*	*1280*	*1290*	*1460*	*0*
Total	—	—	—	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	+0.6
Gender:																	
Male	—	—	—	37.1	35.2	34.5	34.5	37.8	35.4	39.2	39.0	37.9	38.4	37.0	34.3	34.9	+0.6
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	0.0
College Plans:																	
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	+6.0
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	-0.6
Region:																	
Northeast	—	—	—	36.4	30.0	35.0	35.2	35.5	37.2	35.9	35.6	37.5	39.3	33.9	33.6	35.4	+1.8
North Central	—	—	—	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	-0.2
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	-2.5
West	—	—	—	28.5	26.6	23.2	25.4	27.1	24.7	32.7	33.5	32.2	32.8	28.8	25.0	30.1	+5.1
Population Density:																	
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	-7.5s
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	+4.4
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	+4.0
Parental Education:[a]																	
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	+5.6
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	+1.7
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	-1.8
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	+2.3
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	-1.1
Race (2-year average):[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	-1.0
Black	—	—	—	—	11.0	12.5	14.1	13.2	13.0	13.8	13.8	14.9	14.9	12.0	12.1	11.7	-0.4
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	+0.4

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 error.
See Table D-77 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 D-77.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-50
Alcohol: Trends in Two-Week Prevalence of Five or More Drinks in a Row by Subgroups for Eighth and Tenth Graders

Percentage reporting 5+ drinks in a row on one or more occasions

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
Total	12.9	13.4	13.5	14.5	14.5	15.6	14.5	13.7	15.2	14.1	13.2	12.4	11.9	-0.5	22.9	21.1	23.0	23.6	24.0	24.8	25.1	24.3	25.6	26.2	24.9	22.4	22.2	-0.3
Gender:																												
Male	14.3	13.9	14.8	16.0	15.1	16.5	15.3	14.4	16.4	14.4	13.7	12.5	12.2	-0.3	26.4	23.7	26.5	28.5	26.3	27.2	28.6	26.7	29.7	29.8	28.6	23.8	23.2	-0.6
Female	11.4	12.8	12.3	13.0	13.9	14.5	13.5	12.7	13.9	13.6	12.4	12.1	11.6	-0.5	19.5	18.6	19.3	18.7	21.5	22.3	21.7	22.2	21.8	22.5	21.4	21.0	21.2	+0.2
College Plans:																												
None or under 4 years	24.4	26.4	29.3	29.3	29.2	29.9	30.3	30.5	33.9	29.3	29.6	28.1	27.7	-0.4	33.0	31.8	35.1	36.4	37.5	38.2	39.4	38.2	39.3	39.3	40.2	34.3	34.2	-0.1
Complete 4 years	11.1	11.5	11.3	12.5	12.7	13.3	12.5	11.6	13.0	12.3	11.2	10.9	10.2	-0.7	20.8	18.9	20.5	20.8	21.5	22.5	22.7	22.0	23.4	24.2	22.4	20.4	20.3	-0.1
Region:																												
Northeast	10.3	10.7	10.0	12.6	12.6	15.1	13.0	11.3	14.5	13.8	12.6	10.0	9.4	-0.6	25.1	19.9	23.2	21.3	22.1	23.8	23.4	25.6	28.1	25.4	22.7	21.4	23.3	+1.9
North Central	13.4	14.2	12.8	13.7	14.2	16.0	14.2	14.4	17.4	15.6	12.5	12.1	12.9	+0.8	23.7	21.3	23.5	24.8	25.3	25.3	24.0	24.2	27.1	28.3	26.7	22.1	22.0	-0.1
South	14.1	14.8	15.5	14.9	15.7	15.8	15.3	14.2	15.7	13.7	15.3	14.0	13.0	-1.0	22.7	21.5	22.6	24.6	24.5	25.6	25.6	25.2	24.2	24.9	24.2	21.8	21.5	-0.3
West	12.3	12.8	15.0	16.5	14.4	15.3	14.6	13.9	12.2	13.3	11.0	12.1	11.0	-1.1	20.7	21.7	22.5	22.5	23.1	23.6	27.9	21.8	23.8	26.5	25.7	24.9	22.2	-2.8
Population Density:																												
Large MSA	12.4	12.5	10.6	12.3	12.3	14.5	13.7	12.2	13.1	12.8	11.1	10.8	11.2	+0.4	21.6	19.3	20.9	19.0	20.2	22.2	22.5	20.0	24.3	25.7	22.6	19.4	19.7	+0.3
Other MSA	12.4	14.0	14.5	15.7	14.2	15.7	14.0	13.0	14.2	12.8	13.2	12.6	10.8	-1.8	22.1	20.0	21.2	24.4	24.1	24.9	24.8	24.0	24.6	25.4	23.9	22.7	22.1	-0.5
Non-MSA	14.4	13.5	15.5	14.4	17.8	16.9	16.4	16.6	19.7	18.5	15.9	13.9	15.1	+1.1	25.5	25.2	28.1	26.8	28.1	27.6	28.9	30.1	29.3	28.2	29.5	26.2	26.2	+0.1
Parental Education:[a]																												
1.0-2.0 (Low)	21.8	21.8	19.7	20.4	23.2	20.1	22.5	20.0	23.7	22.5	21.0	19.5	20.1	+0.6	25.7	25.6	26.8	25.5	30.5	27.2	25.5	26.5	28.4	27.5	26.3	26.7	27.2	+0.5
2.5-3.0	15.1	16.0	15.6	17.1	17.8	18.4	16.2	16.4	19.6	18.7	16.6	15.2	15.7	+0.4	26.0	22.4	25.7	25.7	26.7	27.8	26.1	27.9	28.7	29.4	27.4	25.1	24.3	-0.8
3.5-4.0	12.8	13.0	13.9	14.8	15.0	15.9	15.8	14.5	16.1	13.2	13.9	13.2	12.9	-0.4	21.7	21.3	22.8	24.7	24.6	25.4	26.5	24.8	25.6	26.1	25.6	22.7	22.6	-0.2
4.5-5.0	10.2	10.3	10.3	11.8	11.0	13.1	11.7	10.9	11.0	10.0	9.8	9.8	8.4	-1.3	20.8	19.7	19.9	21.7	21.6	22.0	23.1	21.5	23.3	25.0	23.4	19.1	19.6	+0.5
5.5-6.0 (High)	9.8	9.5	10.1	11.2	10.5	12.1	10.6	10.7	11.2	11.0	8.1	8.8	8.3	-0.5	22.4	19.5	20.4	19.3	19.0	24.0	24.0	21.5	24.9	24.6	23.1	20.6	19.9	-0.7
Race (2-year average):[b]																												
White	—	12.7	12.6	12.9	13.9	15.1	15.1	14.1	14.3	14.9	13.8	12.7	11.8	-0.9	—	23.2	23.0	24.5	25.4	26.2	26.9	27.0	27.2	28.1	27.4	25.5	24.5	-1.1
Black	—	9.6	10.7	11.8	10.8	10.4	9.8	9.0	9.9	10.0	9.0	9.4	10.4	+1.0	—	15.0	14.8	14.0	13.3	12.2	12.7	12.8	12.7	12.9	12.6	12.4	12.1	-0.3
Hispanic	—	20.4	21.4	22.3	22.0	21.0	20.7	20.4	20.9	19.1	17.6	17.8	16.6	-1.2	—	22.9	23.8	24.2	26.8	29.6	27.5	26.3	27.5	28.3	27.7	26.5	26.1	-0.3

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-51
Alcohol: Trends in Two-Week Prevalence of Five or More Drinks in a Row by Subgroups for Twelfth Graders

Percentage reporting 5+ drinks in a row on one or more occasions

	Class of:																													'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
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	29.8	30.2	31.3	31.5	30.8	30.0	29.7	28.6	27.9	-0.7
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	36.9	37.0	37.9	39.2	38.1	36.7	36.0	34.2	34.2	0.0
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	23.0	23.5	24.4	24.0	23.6	23.5	23.7	23.0	22.1	-1.0
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	35.2	33.9	36.2	36.3	35.4	35.7	35.9	34.0	34.5	+0.5
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	27.8	28.8	29.5	30.0	29.5	27.6	27.8	27.2	25.9	-1.4
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	31.2	33.7	33.5	33.5	33.7	35.1	31.8	30.7	30.9	+0.2
North Central	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	34.3	31.5	31.6	32.6	31.6	33.9	34.5	33.4	32.5	-0.8
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	28.6	30.2	30.6	30.7	30.0	24.9	26.6	26.8	23.7	-3.2
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	24.2	24.0	29.6	29.5	28.6	29.3	26.0	23.9	26.5	+2.6
Population Density:																														
Large	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	28.3	29.8	29.9	27.9	27.1	29.7	29.0	29.9	23.3	-6.6sss
Other	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	28.4	30.3	31.1	33.1	32.2	29.3	29.0	28.0	29.8	+1.8
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	34.0	30.5	33.2	32.4	32.4	31.7	31.9	28.2	30.5	+2.4
Parental Education:[a] (Low)																														
1.0-2.0	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	26.6	24.8	22.6	26.3	27.4	25.1	24.8	22.2	23.5	+1.3
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	31.2	28.6	30.4	30.3	30.8	29.2	30.2	28.5	27.6	-0.9
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	29.5	29.8	31.0	33.2	30.5	30.5	30.3	28.6	28.4	-0.3
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	29.9	32.4	32.4	32.3	30.6	29.9	30.9	30.9	28.6	-2.2
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	30.7	33.1	34.9	32.4	34.2	32.7	28.6	30.6	28.7	-1.9
Race (2-year average):[b]																														
White	—	—	40.5	42.4	43.5	44.3	44.9	44.9	44.5	43.6	41.5	40.3	40.9	40.0	37.9	36.6	34.6	32.1	31.3	31.5	32.3	33.4	35.1	36.4	35.7	34.6	34.5	33.7	32.4	-1.4
Black	—	—	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	14.9	15.3	13.4	12.3	12.3	11.5	11.8	11.5	10.8	-0.8
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	26.6	27.1	27.6	28.1	29.3	31.0	28.4	26.4	25.9	-0.5

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-52
Beer: Trends in Thirty-Day Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last thirty days

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	-0.3	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	-1.4
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	+0.2	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	-0.8
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	-0.8	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	-1.7
College Plans:																												
None or under 4 years	26.4	27.7	32.2	32.8	36.0	33.0	33.9	32.6	35.5	29.6	32.9	27.4	28.7	+1.3	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	-6.9s
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	-0.9	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	-0.4
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	+1.5	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	+1.8
North Central	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	+3.8	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	-2.3
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	-2.6	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	-0.7
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	-3.6	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	-5.0
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	-0.5	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	-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	-0.5	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	-1.7
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	+0.3	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	-1.0
Parental Education:[a]																												
1.0-2.0 (Low)	22.0	22.5	21.5	24.4	23.9	19.7	21.6	21.9	25.4	23.2	21.3	24.1	17.1	-7.0	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	+3.9
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	+0.3	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	-4.5s
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	+0.9	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	-0.8
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	-1.0	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	-0.8
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	-0.1	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	-0.9
Race (2-year average):[b]																												
White	—	16.7	17.6	17.9	19.0	19.7	18.8	17.4	17.4	16.8	15.5	13.5	12.0	-1.4	—	31.7	30.2	31.1	32.1	32.5	32.4	31.9	32.2	33.1	31.7	28.7	27.0	-1.7
Black	—	12.6	13.0	15.8	14.5	11.1	9.7	8.1	9.7	9.7	7.9	7.2	7.5	+0.3	—	20.9	20.3	19.0	18.8	15.9	15.6	13.1	10.0	13.5	14.8	11.6	10.2	-1.4
Hispanic	—	23.9	24.2	22.2	23.3	23.7	21.8	19.9	19.5	19.8	20.7	21.8	19.6	-2.2	—	32.2	29.6	29.3	31.2	31.9	31.3	29.8	28.3	28.9	30.7	28.6	25.1	-3.5

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.
Data based on one of two forms in 1991–96; N is one-half of N indicated in Tables D-75 and D-76. Data based on one of four forms beginning in 1997; N is one-third of N indicated in Tables D-75 and D-76.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-53
Beer: Trends in Thirty-Day Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last thirty days

	Class of:																													'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	—	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
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	44.9	46.9	44.4	45.6	42.7	42.7	41.5	39.7	37.8	-2.0
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	53.0	53.5	49.7	55.0	48.2	51.7	50.9	44.3	44.5	+0.2
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	37.4	40.2	39.9	37.0	36.9	33.9	32.1	34.4	31.7	-2.7
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	50.1	46.2	44.6	49.6	47.5	42.4	54.1	45.7	39.4	-6.3
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	42.8	47.0	44.4	44.4	41.7	42.4	38.4	37.9	37.2	-0.7
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	47.0	56.9	47.5	52.6	54.3	48.9	47.2	43.4	41.9	-1.5
North Central	—	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	49.7	48.1	43.3	44.6	45.4	47.6	48.1	42.9	43.1	+0.2
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	43.8	44.4	43.3	43.2	36.6	35.1	33.6	35.1	32.0	-3.1
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	37.8	38.8	44.5	45.5	40.2	43.5	39.9	39.8	36.9	-2.9
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	45.9	49.1	45.5	42.1	39.9	45.2	38.0	40.5	36.3	-4.2
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	43.7	46.9	45.0	47.6	42.8	40.7	42.6	38.8	38.9	+0.2
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	46.0	45.3	41.9	45.6	45.4	43.2	43.3	40.5	37.5	-3.0
Parental Education:[a] (Low)																														
1.0-2.0	—	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	43.1	31.2	30.4	37.0	35.4	37.2	39.1	41.6	30.9	-10.7s
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	44.0	42.4	41.5	42.8	43.0	37.4	48.0	36.6	36.2	-0.4
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	42.8	48.2	46.3	48.9	42.5	45.1	35.8	40.9	39.9	-1.1
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	47.1	47.1	47.7	48.9	40.0	43.9	43.6	39.9	38.4	-1.5
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	49.6	58.0	49.9	44.5	51.8	52.0	42.3	45.2	41.4	-3.9
Race (2-year average):[b]																														
White	—	—	—	63.8	65.2	65.9	66.3	66.3	65.4	64.6	64.6	62.2	59.9	59.6	59.1	57.0	54.1	51.6	48.3	46.0	46.5	47.8	50.1	50.7	49.9	47.7	45.8	46.7	45.4	43.1	-2.4
Black	—	—	—	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	25.6	28.4	25.5	22.8	22.3	21.7	20.6	16.9	14.0	-2.9
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	41.7	41.3	39.8	39.0	43.6	45.3	42.6	40.8	37.2	-3.6

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.
Data based on one of five forms in 1976–88; N is one-fifth of N indicated in Table D-77. Data based on one of six forms beginning in 1989; N is one-sixth of N indicated in Table D-77.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-54
Beer: Trends in Two-Week Prevalence of Five or More Drinks in a Row by Subgroups for Eighth and Tenth Graders

Percentage reporting 5+ drinks in a row on one or more occasions

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	-0.7	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	-0.2
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	-0.7	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	+1.7
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	-0.4	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	-1.8
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	-1.4	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	-3.5
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	-0.8	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	+0.4
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	+2.1	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	+3.9
North Central	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	+1.3	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	-1.4
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	-1.6	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	-0.8
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	-4.2s	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	-2.0
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	-0.9	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	+1.0
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	-0.7	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	-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	-0.4	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	-1.0
Parental Education:[a]																												
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	-1.8	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	+5.2
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	-0.9	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	-1.1
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	-0.7	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	-0.7
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	-0.3	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	+0.6
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	-0.7	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	-1.3
Race (2-year average):[b]																												
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	-1.0	—	16.7	16.4	17.4	18.1	19.0	19.3	18.6	19.7	19.9	18.1	16.5	16.1	-0.5
Black	—	5.2	5.1	7.2	6.4	4.9	4.4	3.6	4.7	4.9	4.0	3.2	3.0	-0.3	—	9.8	10.1	9.3	8.7	6.5	6.6	5.5	4.0	6.2	6.8	6.1	4.7	-1.3
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	-2.9	—	17.2	16.1	16.8	18.6	19.7	19.5	16.9	14.8	17.5	20.3	17.5	16.2	-1.3

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.
Data based on one of two forms in 1991–96; N is one-half of N indicated in Tables D-75 and D-76. Data based on one of four forms beginning in 1997; N is one-third of N indicated in Tables D-75 and D-76.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-55
Beer: Trends in Two-Week Prevalence of Five or More Drinks in a Row by Subgroups for Twelfth Graders

Percentage reporting 5+ drinks in a row on one or more occasions

	Class of:																													'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	—	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
Total	—	33.0	35.1	35.4	36.4	36.6	38.0	37.6	38.1	36.2	32.0	33.1	33.8	31.0	31.3	27.0	28.5	25.4	25.5	24.6	27.6	29.2	26.7	28.5	25.6	27.5	26.7	26.1	21.4	-4.7ss
Gender:																														
Male	—	45.6	49.0	49.8	50.6	51.1	49.4	48.5	49.8	47.7	42.6	45.4	45.4	41.5	39.5	37.1	37.0	34.0	34.2	35.7	36.5	38.7	32.9	39.3	34.7	38.2	35.9	33.7	31.1	-2.6
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	19.5	19.2	21.2	19.5	17.0	17.6	18.0	18.2	12.9	-5.3s
College Plans:																														
None or under																														
4 years	—	37.7	39.2	41.6	39.5	43.5	42.8	42.1	43.1	41.2	35.5	36.1	37.8	36.9	37.7	29.0	35.1	32.8	30.2	29.6	32.7	29.4	29.0	39.7	29.5	31.0	40.5	37.0	24.9	-12.1sss
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	25.4	28.8	26.2	25.1	24.7	26.0	23.3	22.9	20.3	-2.7
Region:																														
Northeast	—	39.0	35.3	36.5	41.9	41.4	42.1	40.0	37.9	39.8	35.5	32.6	32.1	32.7	32.1	27.4	27.8	25.7	28.5	23.4	30.5	35.4	32.0	34.2	33.0	32.7	26.5	28.6	27.1	-1.4
North Central	—	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	30.2	29.9	25.7	31.4	28.9	32.4	33.9	28.9	24.8	-4.2
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	27.2	27.5	24.1	25.5	21.3	20.0	19.7	22.4	16.8	-5.6s
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	21.8	24.6	27.6	25.6	22.8	29.4	27.9	26.3	19.2	-7.1s
Population Density:																														
Large MSA	—	32.8	34.4	34.4	35.0	40.9	38.9	36.2	37.4	34.5	31.2	33.9	32.3	29.6	27.3	32.0	24.7	26.0	23.8	23.6	26.9	32.4	26.2	24.4	21.3	29.8	23.4	25.7	18.9	-6.8
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	26.7	29.3	27.9	30.3	26.8	26.1	26.7	25.2	22.9	-2.3
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	30.0	26.6	25.0	29.5	28.1	27.4	30.2	28.1	21.7	-6.4s
Parental Education:[a] (Low)																														
1.0-2.0	—	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	28.9	23.8	18.7	23.5	22.1	16.8	28.2	32.0	20.1	-12.0s
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	27.6	25.0	26.0	26.5	27.7	24.3	31.9	24.5	22.9	-1.5
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	25.6	29.3	28.3	31.9	26.5	29.1	21.4	27.4	20.5	-6.9s
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	27.6	28.1	29.1	29.3	24.2	28.7	28.7	24.4	23.3	-1.1
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	32.2	41.0	28.3	27.6	24.3	35.1	28.0	27.3	19.0	-8.3
Race (2-year average):[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	29.0	31.3	31.4	31.3	30.0	28.8	31.0	30.2	26.4	-3.8
Black	—	—	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	12.6	14.6	13.3	11.7	10.6	9.9	9.1	7.6	6.1	-1.5
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	23.8	26.1	26.0	24.4	27.5	29.0	27.1	24.7	21.6	-3.1

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.
Data based on one of five forms in 1976–88; N is one-fifth of N indicated in Table D-77. Data based on one of six forms beginning in 1989; N is one-sixth of N indicated in Table D-77.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-56
Liquor: Trends in Thirty-Day Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last thirty days

	Class of:																													'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	—	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
Total	—	44.1	45.0	48.2	47.3	47.9	44.6	45.2	46.4	42.3	40.0	41.0	39.0	35.6	35.7	30.8	31.3	28.6	31.4	28.0	34.3	34.7	34.6	37.3	34.3	36.0	35.1	36.0	34.3	-1.6
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	38.2	36.4	36.3	41.2	38.0	41.7	35.6	37.9	36.1	-1.9
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	30.9	32.6	33.4	33.3	30.0	30.7	33.7	33.8	32.9	-0.9
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	36.8	35.8	34.2	38.3	35.0	38.1	40.4	42.5	36.9	-5.6
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	33.4	34.1	34.9	36.6	33.9	35.0	33.6	34.2	33.6	-0.6
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	37.7	40.9	36.6	46.3	39.8	40.9	40.8	41.4	35.8	-5.7
North Central	—	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	35.4	36.2	35.2	36.6	33.7	40.5	37.4	39.6	37.4	-2.3
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	34.9	33.6	32.9	33.9	32.1	28.3	31.7	32.9	30.7	-2.2
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	28.7	27.8	35.1	37.2	34.5	38.5	33.3	31.8	35.4	+3.5
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	33.3	30.6	36.0	37.2	34.5	41.1	36.0	37.5	32.4	-5.0
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	34.9	38.0	34.6	38.9	34.9	33.8	35.4	37.0	35.6	-1.4
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	34.3	32.4	33.4	33.9	33.3	34.0	33.9	32.3	34.3	+2.0
Parental Education:[a] (Low)																														
1.0-2.0	—	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	26.8	24.7	27.7	33.5	35.3	30.8	28.2	29.4	27.6	-1.8
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	34.8	37.5	31.8	33.5	33.7	28.7	36.3	33.5	35.2	+1.7
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	32.4	34.7	36.4	40.6	32.7	40.0	35.4	37.3	35.7	-1.6
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	35.7	30.1	35.8	38.2	33.4	35.2	38.3	38.2	36.5	-1.8
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	41.1	42.1	40.4	38.3	40.8	47.8	34.5	38.8	33.0	-5.9
Race (2-year average):[b]																														
White	—	—	47.5	49.5	50.3	50.1	48.9	48.2	49.0	47.3	44.1	43.5	43.4	41.1	39.8	37.7	35.0	32.9	32.5	32.6	34.1	37.2	38.5	39.5	37.6	37.2	38.8	38.9	37.8	-1.1
Black	—	—	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	17.9	24.9	20.4	17.6	21.5	22.2	22.1	22.0	23.0	+1.0
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	27.4	29.4	28.1	31.7	36.6	36.3	36.0	36.3	33.3	-3.0

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.
Data based on one of five forms in 1976–88; N is one-fifth of N indicated in Table D-77. Data based on one of six forms beginning in 1989; N is one-sixth of N indicated in Table D-77.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-57
Liquor: Trends in Two-Week Prevalence of Five or More Drinks in a Row by Subgroups for Twelfth Graders

Percentage reporting 5+ drinks in a row on one or more occasions

	Class of:																													'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	—	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
Total	—	19.8	19.9	22.0	22.8	23.0	21.3	23.8	22.0	21.3	19.6	21.4	20.5	18.2	20.0	16.8	17.4	16.0	18.2	17.1	20.2	21.6	21.1	23.6	22.3	23.8	22.7	25.6	21.1	-4.5s
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	24.7	24.6	23.9	27.3	27.6	30.8	26.4	27.2	24.1	-3.0
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	16.2	17.7	18.7	20.0	16.1	17.4	18.8	23.6	18.9	-4.7s
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	22.5	21.1	23.4	31.2	23.2	26.4	29.2	31.9	23.0	-8.9s
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	19.2	21.4	20.6	21.7	21.9	22.9	20.7	23.7	20.5	-3.2
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	19.2	25.4	24.6	29.8	25.5	24.7	27.9	27.8	23.5	-4.3
North Central	—	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	21.5	22.0	20.6	23.6	19.9	29.7	21.5	28.1	24.8	-3.4
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	21.8	21.9	20.0	21.7	21.7	17.4	20.4	24.3	17.4	-6.9
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	16.4	16.3	20.5	22.3	23.6	26.1	24.3	22.7	20.7	-2.0
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	19.3	19.5	23.0	23.9	21.4	26.6	23.6	25.8	20.0	-5.9
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	20.3	24.9	21.3	25.1	22.8	21.7	22.2	26.3	21.9	-4.4
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	21.1	17.7	18.7	20.3	22.2	24.1	22.6	24.0	21.2	-2.8
Parental Education:[a] (Low)																														
1.0-2.0	—	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	15.2	14.7	16.7	23.9	25.5	24.4	15.2	18.4	17.9	-0.5
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	19.7	22.1	18.3	21.3	20.7	17.8	25.4	24.2	24.2	0.0
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	20.7	20.4	23.3	25.4	23.6	25.8	21.8	24.4	21.1	-3.4
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	21.6	18.0	22.2	24.3	20.6	24.5	24.9	29.0	21.0	-8.0s
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	22.0	31.3	23.5	23.0	22.8	30.4	22.4	31.0	21.0	-10.0s
Race (2-year average):[b]																														
White	—	—	20.5	22.1	23.6	24.1	23.3	24.2	24.5	23.0	22.0	22.0	22.6	21.3	21.0	20.7	19.0	18.0	18.7	19.4	20.4	22.3	23.4	24.7	24.4	24.3	25.3	26.3	25.4	-0.9
Black	—	—	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	11.3	15.4	12.5	9.9	10.4	10.2	12.8	14.6	14.9	+0.3
Hispanic	—	—	25.5	26.8	25.9	22.9	25.3	26.7	24.5	21.4	20.9	20.8	21.9	19.0	14.6	11.9	13.4	19.4	18.1	16.8	18.1	18.9	20.0	22.2	24.3	25.2	24.0	24.0	21.1	-2.8

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.
Data based on one of five forms in 1976–88; N is one-fifth of N indicated in Table D-77. Data based on one of six forms beginning in 1989; N is one-sixth of N indicated in Table D-77.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-58
Wine: Trends in Thirty-Day Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last thirty days

	Class of:																												'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988[a]	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	—	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
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	14.3	18.3	17.0	16.0	15.8	16.2	14.1	13.4	13.4	0.0
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	13.2	18.1	16.7	17.4	17.6	17.7	12.8	13.2	13.9	+0.8
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	15.3	18.2	17.3	15.0	14.4	15.0	15.5	13.2	13.5	+0.3
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	10.6	14.5	14.2	19.0	11.9	12.0	15.9	11.7	13.8	+2.1
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	15.3	19.3	18.0	15.3	16.8	17.1	13.3	13.7	13.5	-0.2
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	14.2	23.4	19.4	18.7	23.5	20.8	19.2	17.3	12.5	-4.9
North Central	—	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	14.3	13.1	14.2	17.7	16.2	11.9	13.5	14.9	13.5	-1.5
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	15.9	20.0	17.7	13.8	14.6	17.2	13.9	12.7	14.0	+1.3
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	11.6	16.8	17.1	15.9	11.2	15.9	11.3	9.8	13.5	+3.7
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	14.8	19.5	18.2	19.5	17.4	20.4	16.7	17.2	11.1	-6.1s
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	15.1	18.6	18.2	15.9	16.5	14.6	11.5	11.8	15.0	+3.2
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	12.4	16.6	13.6	12.3	13.3	14.2	15.6	11.9	13.5	+1.6
Parental Education:[b] (Low)																														
1.0-2.0	—	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	13.5	9.7	13.1	14.6	16.7	19.7	12.3	14.8	9.4	-5.4
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	10.2	15.2	13.8	10.2	10.5	10.4	13.6	8.6	13.1	+4.5
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	10.5	17.9	15.7	15.1	11.5	14.6	10.2	13.1	13.1	-0.1
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	18.1	18.0	18.0	20.8	19.6	16.2	19.1	15.4	15.5	+0.1
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	24.9	27.2	29.1	20.0	29.8	29.1	16.7	19.0	15.8	-3.1
Race (2-year average):[c]																														
White	—	—	35.9	38.1	38.1	39.2	40.2	39.6	38.4	36.5	36.7	37.1	35.7	29.9	23.0	18.6	16.6	17.4	16.2	14.4	14.4	16.8	19.3	18.1	16.6	16.4	15.9	15.2	14.5	-0.7
Black	—	—	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	13.6	12.8	11.1	9.9	9.3	9.5	10.9	8.5	8.0	-0.5
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	15.0	13.8	13.5	13.4	16.4	17.9	12.9	9.4	12.2	+2.8

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.
Data based on one of five forms in 1976–88; N is one-fifth of N indicated in Table D-77. Data based on one of six forms beginning in 1989; N is one-sixth of N indicated in Table D-77.

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

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

[b]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-59
Wine: Trends in Two-Week Prevalence of Five or More Drinks in a Row by Subgroups for Twelfth Graders

Percentage reporting 5+ drinks in a row on one or more occasions

	Class of:																												'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988[a]	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	—	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
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	5.8	7.0	6.4	6.4	5.0	5.4	5.9	4.7	5.0	+0.2
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	6.1	8.3	6.9	6.9	6.5	7.3	5.8	4.6	5.7	+1.1
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	5.6	5.7	6.1	5.8	3.8	3.6	5.3	4.1	4.3	+0.2
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	6.1	5.7	8.7	9.6	5.0	4.2	7.8	6.4	7.0	+0.5
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	5.4	7.2	5.7	5.5	5.1	5.6	5.2	4.1	4.5	+0.3
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	5.9	10.2	6.6	8.0	5.4	5.9	8.3	5.3	4.1	-1.1
North Central	—	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	6.3	5.7	5.5	6.4	6.4	5.3	4.5	4.6	5.5	+1.0
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	6.9	6.7	7.2	5.7	5.0	5.2	5.8	3.9	5.4	+1.5
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	3.0	6.1	6.3	6.5	3.2	5.5	6.1	5.8	4.5	-1.4
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	5.6	9.6	7.3	6.6	5.3	6.7	5.5	5.4	4.1	-1.3
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	5.4	7.0	6.4	6.6	4.2	5.4	5.4	3.2	5.0	+1.8
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	6.6	4.9	5.6	5.8	6.2	3.9	7.0	6.7	5.9	-0.9
Parental Education:[b] (Low)																														
1.0-2.0	—	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	6.1	4.2	5.2	10.7	8.2	11.3	8.0	8.2	6.8	-1.5
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	5.6	6.5	6.8	6.0	3.5	3.7	5.6	4.6	6.6	+2.0
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	4.2	7.1	4.8	5.7	4.1	5.3	4.7	4.5	4.6	+0.1
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	5.6	4.4	8.1	7.6	4.7	4.8	7.2	4.4	4.1	-0.3
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	11.1	13.0	8.2	4.5	8.8	6.5	5.5	4.4	4.2	-0.1
Race (2-year average):[c]																														
White	—	—	12.0	13.1	13.4	13.1	13.4	14.4	14.8	13.8	13.3	13.6	13.4	10.4	7.5	6.0	5.3	5.5	5.0	4.8	5.2	6.2	6.9	6.5	5.4	4.7	4.8	4.9	5.0	+0.1
Black	—	—	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	4.0	4.9	5.1	5.3	4.5	5.2	6.5	5.0	4.3	-0.7
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	7.3	7.6	7.6	7.1	7.8	7.8	7.8	4.7	3.5	-1.3

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.
Data based on one of five forms in 1976–88; N is one-fifth of N indicated in Table D-77. Data based on one of six forms beginning in 1989; N is one-sixth of N indicated in Table D-77.

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

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

[b]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-60
Wine Coolers: Trends in Thirty-Day Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last thirty days

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	-0.6	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	-1.8
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	-1.7	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	-1.3
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	+1.0	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	-2.2
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	+3.2	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	-6.4s
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	-1.1	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	-1.0
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	-0.9	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	+0.7
North Central	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	+3.5	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	-3.9
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	-2.4	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	-0.8
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	-2.5	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	-3.2
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	-1.7	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	-0.5
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	-0.4	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	-2.4
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	+0.3	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	-1.8
Parental Education:[a]																												
1.0-2.0 (Low)	19.3	18.7	18.5	21.1	20.4	21.7	22.2	20.7	30.2	22.1	25.1	22.8	18.2	-4.5	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	+3.1
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	+1.0	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	-2.7
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	0.0	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	-1.6
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	-1.7	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	-2.8
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	-0.3	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	-0.3
Race (2-year average):[b]																												
White	—	14.4	15.1	15.1	14.9	16.4	16.5	15.4	16.0	15.9	15.0	14.0	12.6	-1.4	—	23.0	21.9	22.1	21.2	21.7	22.6	21.7	21.6	21.9	21.2	20.3	18.1	-2.3
Black	—	13.7	13.3	14.4	12.7	12.2	14.7	12.8	12.8	13.1	12.0	9.8	9.6	-0.2	—	19.9	19.3	20.6	20.0	16.6	16.1	17.6	17.0	18.1	18.3	15.3	15.2	0.0
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	0.0	—	26.3	26.2	24.7	24.9	28.1	28.0	24.1	24.5	25.2	24.5	22.3	21.7	-0.6

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.
Data based on one of two forms in 1991–96; N is one-half of N indicated in Tables D-75 and D-76. Data based on one of four forms beginning in 1997; N is one-third of N indicated in Tables D-75 and D-76.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-61
Wine Coolers: Trends in Thirty-Day Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last thirty days

	Class of:																		'02–'03
	1975–79	1980–87	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	—	—	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
Total	—	—	36.6	29.4	26.2	24.3	21.9	19.4	22.2	20.6	20.7	20.7	20.1	18.4	17.6	19.0	19.3	14.6	-4.7ss
Gender:																			
Male	—	—	30.8	25.5	22.7	22.1	19.1	15.1	16.9	15.5	17.7	15.9	15.0	15.6	15.6	14.1	12.0	9.4	-2.7
Female	—	—	41.5	33.6	29.8	26.3	24.3	22.8	26.4	25.1	23.6	24.4	23.5	20.6	19.5	22.2	24.2	18.9	-5.3ss
College Plans:																			
None or under 4 years	—	—	38.2	30.9	29.2	29.3	21.9	20.5	22.8	22.7	20.0	17.8	21.8	22.8	21.2	23.1	21.8	17.2	-4.6
Complete 4 years	—	—	35.9	28.6	24.9	22.8	22.0	19.2	22.3	19.8	20.9	21.6	19.6	17.3	16.1	17.7	18.8	14.0	-4.7s
Region:																			
Northeast	—	—	33.8	29.6	29.2	21.0	19.6	18.9	15.4	14.6	21.1	17.2	20.8	22.1	19.1	18.4	17.8	15.9	-1.9
North Central	—	—	37.9	33.0	28.6	26.1	23.7	19.4	26.0	19.8	20.9	21.5	18.6	19.2	18.3	19.5	20.9	15.5	-5.4
South	—	—	33.6	25.7	22.9	23.1	21.3	20.6	23.4	24.1	23.2	22.9	20.6	18.7	16.8	19.7	20.6	13.9	-6.7s
West	—	—	42.7	31.3	24.7	26.3	22.2	17.8	19.8	20.4	14.9	18.9	20.4	13.7	16.7	17.5	16.6	13.1	-3.5
Population Density:																			
Large MSA	—	—	37.7	28.6	25.9	20.9	21.2	20.4	21.2	20.7	22.7	23.9	22.5	14.7	19.8	18.1	20.5	12.8	-7.6s
Other MSA	—	—	37.1	31.1	28.7	28.1	21.0	19.0	23.3	19.8	19.3	19.1	19.4	17.5	15.0	18.5	18.4	13.7	-4.7s
Non-MSA	—	—	34.6	26.4	21.1	20.6	24.1	19.4	21.3	21.8	21.6	20.1	18.7	23.4	19.4	20.6	19.4	18.0	-1.4
Parental Education:[a]																			
1.0-2.0 (Low)	—	—	28.8	27.7	22.9	24.0	25.7	20.8	23.5	21.1	18.2	13.2	19.8	19.0	24.8	19.3	18.4	13.7	-4.7
2.5-3.0	—	—	37.8	31.9	28.1	25.4	21.2	17.1	26.4	20.4	26.8	20.0	21.4	23.2	16.3	22.8	19.6	18.1	-1.6
3.5-4.0	—	—	38.5	31.2	27.1	27.2	22.9	24.4	20.9	22.0	19.5	23.0	23.3	17.3	21.8	18.5	17.8	14.7	-3.1
4.5-5.0	—	—	35.6	27.6	27.6	22.1	18.0	17.2	22.8	21.0	17.0	21.4	17.9	14.3	13.6	19.0	19.4	12.4	-7.0s
5.5-6.0 (High)	—	—	36.9	23.5	21.5	18.0	24.5	16.4	14.6	16.7	20.8	21.0	16.6	19.9	16.8	14.6	23.5	10.1	-13.5ss
Race (2-year average):[b]																			
White	—	—	—	35.4	29.6	26.7	23.7	21.3	21.5	21.9	20.8	21.2	21.0	19.6	18.0	18.2	19.7	16.8	-2.9
Black	—	—	—	25.3	21.7	20.9	18.2	17.6	18.3	17.6	22.1	21.1	18.4	15.5	12.4	17.0	17.0	15.8	-1.1
Hispanic	—	—	—	30.2	23.3	22.3	26.7	22.9	22.9	26.0	22.0	19.8	18.2	17.4	20.7	20.0	16.7	16.0	-0.7

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 error.
See Table D-77 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 D-77. Data based on one of six forms beginning in 1989; N is one-sixth of N indicated in Table D-77.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-62
Wine Coolers: Trends in Two-Week Prevalence of Five or More Drinks in a Row by Subgroups for Twelfth Graders

Percentage reporting 5+ drinks in a row on one or more occasions

	Class of:																		'02–'03
	1975–79	1980–87	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	—	—	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
Total	—	—	13.9	12.4	10.5	10.2	10.4	8.5	8.9	9.0	8.4	9.4	9.5	7.7	8.8	9.7	10.0	7.1	-2.9ss
Gender:																			
Male	—	—	12.1	11.3	9.9	10.0	10.2	7.3	7.4	6.7	6.9	6.7	7.0	7.0	9.4	6.2	7.2	5.4	-1.8
Female	—	—	15.1	13.5	11.3	10.2	10.3	9.5	10.0	10.8	9.7	11.3	11.0	7.8	8.4	11.4	11.4	8.2	-3.2
College Plans:																			
None or under 4 years	—	—	17.7	16.2	14.2	13.5	11.1	10.8	10.9	12.1	8.8	10.1	9.9	10.2	12.1	14.8	13.7	8.9	-4.8s
Complete 4 years	—	—	12.5	10.7	9.0	9.2	10.1	8.0	8.6	8.0	8.3	9.2	9.5	7.0	7.4	8.2	9.2	6.7	-2.5s
Region:																			
Northeast	—	—	14.7	14.3	10.0	7.6	8.8	6.5	5.5	5.5	9.8	8.2	9.6	8.9	10.1	10.2	9.8	8.0	-1.8
North Central	—	—	14.2	13.1	12.0	10.9	12.0	8.0	9.9	7.0	9.2	9.7	7.3	7.0	10.8	8.9	12.0	8.8	-3.2
South	—	—	11.2	11.2	9.3	8.8	10.3	11.1	9.3	11.5	8.7	9.7	10.5	8.8	5.9	10.9	9.6	6.7	-2.9s
West	—	—	17.4	12.0	11.0	13.2	9.7	6.2	10.0	10.4	4.8	9.7	10.2	5.6	10.1	8.4	8.4	5.0	-3.5
Population Density:																			
Large MSA	—	—	14.2	11.7	10.0	7.9	11.8	7.9	8.5	11.1	8.8	10.8	12.1	7.5	11.1	10.6	9.6	6.8	-2.8
Other MSA	—	—	15.6	12.4	11.0	12.4	9.2	8.7	8.8	7.5	8.3	9.5	8.7	6.5	8.1	8.2	9.9	6.3	-3.7s
Non-MSA	—	—	10.7	13.3	9.9	8.2	11.7	8.6	9.6	9.1	8.2	7.8	7.9	9.7	7.4	11.3	10.7	8.9	-1.7
Parental Education:[a]																			
1.0-2.0 (Low)	—	—	13.9	9.2	10.7	12.5	13.1	12.2	11.4	11.7	9.6	6.8	13.2	8.3	16.8	14.1	14.6	9.3	-5.3
2.5-3.0	—	—	16.6	13.8	13.3	10.9	9.5	6.9	10.4	9.5	11.4	9.8	11.0	9.2	8.8	12.6	9.9	9.4	-0.5
3.5-4.0	—	—	13.6	14.9	9.3	12.0	11.1	11.1	8.8	8.5	6.8	10.6	9.9	7.7	8.8	7.3	9.9	6.1	-3.8
4.5-5.0	—	—	11.7	10.5	11.3	9.2	8.8	7.4	9.2	9.2	7.2	8.6	7.7	7.2	8.6	10.7	10.7	5.9	-4.8
5.5-6.0 (High)	—	—	11.4	7.4	6.3	3.7	10.6	5.6	4.8	7.5	7.7	9.5	7.9	5.8	7.0	6.1	8.0	5.9	-2.2
Race (2-year average):[b]																			
White	—	—	—	13.6	12.3	10.7	10.3	9.5	8.6	8.6	8.1	8.7	8.8	7.6	7.6	8.9	10.2	8.4	-1.9
Black	—	—	—	13.0	9.9	9.2	8.7	8.6	8.6	7.5	10.4	10.0	9.2	6.9	4.2	9.6	10.0	7.8	-2.2
Hispanic	—	—	—	11.5	6.0	9.8	14.5	13.5	13.1	13.9	11.1	9.8	12.0	12.6	13.2	11.5	9.1	9.3	+0.2

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 error.
See Table D-77 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 D-77. Data based on one of six forms beginning in 1989; N is one-sixth of N indicated in Table D-77.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-63
Cigarettes: Trends in Thirty-Day Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last thirty days

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	-0.5	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	-1.0
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	-1.4	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	-0.5
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	+0.3	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	-1.6
College Plans:																												
None or under 4 years	29.2	31.9	34.1	36.6	36.5	39.2	40.0	40.1	40.3	34.7	30.0	29.3	27.8	-1.5	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	-0.3
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	-0.6	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	-1.1
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	-1.4	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	+0.7
North Central	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	+1.2	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	-0.9
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	-1.3	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	-1.3
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	-0.5	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	-1.6
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	+0.2	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	-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	-0.8	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	-1.0
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	-0.6	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	-0.2
Parental Education:[a]																												
1.0-2.0 (Low)	26.2	24.1	23.3	26.1	25.3	26.5	26.9	26.7	26.6	22.0	20.3	20.3	17.5	-2.7	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	+2.0
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	+0.3	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	-1.2
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	-0.9	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	-1.1
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	-1.1	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	-1.7
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	+0.1	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	-1.1
Race (2-year average):[b]																												
White	—	16.2	17.8	18.9	20.7	22.7	22.8	21.5	20.1	17.7	14.7	12.0	10.9	-1.1	—	24.1	26.0	27.8	29.7	32.9	34.4	33.2	30.8	28.2	25.7	22.4	20.0	-2.5s
Black	—	5.3	6.6	8.7	8.9	9.6	10.9	10.6	10.7	9.6	8.2	7.7	6.9	-0.8	—	6.6	7.5	9.8	11.5	12.2	12.8	13.7	12.5	11.1	11.1	9.8	8.9	-0.9
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	-0.9	—	18.3	20.5	19.4	21.4	23.7	23.0	21.3	21.1	19.6	16.8	14.3	13.2	-1.1

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-64
Cigarettes: Trends in Thirty-Day Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last thirty days

	Class of:																														'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
Total	36.7	38.8	38.4	36.7	34.4	30.5	29.4	30.0	30.3	29.3	30.1	29.6	29.4	28.7	28.6	29.4	28.3	27.8	29.9	31.2	33.5	34.0	36.5	35.1	34.6	31.4	29.5	26.7	24.4	-2.3s
Gender:																														
Male	37.2	37.7	36.6	34.5	31.2	26.8	26.5	26.8	28.0	25.9	28.2	27.9	27.0	28.0	27.7	29.1	29.0	29.2	30.7	32.9	34.5	34.9	37.3	36.3	35.4	32.8	29.7	27.4	26.2	-1.2
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	32.0	32.4	35.2	33.3	33.5	29.7	28.7	25.5	22.1	-3.4s
College Plans:																														
None or under 4 years	—	46.3	46.2	44.6	43.0	39.6	38.1	38.7	38.0	37.9	40.5	38.5	39.7	37.5	38.0	37.5	38.1	38.6	37.3	40.9	43.5	45.0	45.7	46.7	44.9	43.6	40.8	37.5	36.2	-1.3
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	29.9	30.8	33.1	31.3	31.4	27.3	25.9	23.6	20.8	-2.8ss
Region:																														
Northeast	40.1	41.8	43.0	40.6	37.0	34.1	31.5	32.1	34.6	33.5	34.2	35.2	34.1	31.2	29.4	31.9	30.5	29.6	34.2	33.2	34.4	38.5	40.6	35.9	34.2	33.1	30.3	27.3	25.0	-2.3
North Central	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	37.8	37.7	39.3	40.0	37.8	35.6	35.9	31.7	27.3	-4.4s
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	33.5	33.2	35.0	34.3	36.2	29.6	25.9	27.2	24.3	-3.0
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	26.5	24.4	30.5	29.1	27.6	28.1	25.2	19.4	20.7	+1.2
Population Density:																														
Large MSA	39.7	40.4	40.9	37.5	33.4	31.2	30.6	32.1	30.8	31.3	31.9	30.8	29.3	26.9	25.9	27.9	26.2	25.6	29.5	29.0	33.9	32.1	34.9	32.9	30.0	27.4	27.3	24.8	18.9	-5.9sss
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	31.7	32.6	35.7	34.2	35.0	31.5	28.2	26.2	25.1	-1.1
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	36.2	38.2	40.0	39.7	38.7	36.3	34.3	30.1	30.4	+0.3
Parental Education:[a]																														
(Low)																														
1.0-2.0	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	31.2	31.5	31.2	32.3	33.0	31.3	24.8	20.9	23.5	+2.6
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	35.0	35.5	36.5	36.0	37.3	32.2	31.5	28.9	27.0	-1.9
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	33.2	33.2	35.6	36.7	35.0	32.8	30.3	28.6	24.3	-4.4ss
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	32.6	34.5	37.5	34.2	32.4	30.2	29.3	25.0	22.6	-2.4
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	34.0	32.9	38.5	33.1	34.4	27.4	25.0	25.3	21.0	-4.3s
Race (2-year average):[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	36.6	38.1	40.7	41.7	40.1	37.9	35.3	32.5	29.4	-3.0s
Black	—	—	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	12.9	14.2	14.3	14.9	14.9	14.3	13.3	12.1	10.0	-2.1
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	25.1	25.4	25.9	26.6	27.3	27.7	23.8	21.3	19.0	-2.2

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-65
Cigarettes: Trends in Thirty-Day Prevalence of Daily Use by Subgroups for Eighth and Tenth Graders

Percentage who used daily in last thirty days

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
Total	7.2	7.0	8.3	8.8	9.3	10.4	9.0	8.8	8.1	7.4	5.5	5.1	4.5	-0.6	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	-1.2
Gender:																												
Male	8.1	6.9	8.8	9.5	9.2	10.5	9.0	8.1	7.4	7.0	5.9	5.4	4.4	-1.0	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	-0.8
Female	6.2	7.2	7.8	8.0	9.2	10.1	8.7	9.0	8.4	7.5	4.9	4.9	4.5	-0.4	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	-1.8
College Plans:																												
None or under 4 years	18.5	20.1	21.5	22.6	22.5	26.0	25.4	25.2	25.2	21.7	17.7	17.1	16.1	-0.9	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	-0.8
Complete 4 years	5.3	5.1	6.4	6.8	7.5	8.0	6.9	6.6	5.9	5.6	3.9	3.9	3.2	-0.7	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	-1.2s
Region:																												
Northeast	7.2	7.1	7.1	8.6	9.2	11.0	8.8	6.1	7.2	6.9	6.1	3.7	2.9	-0.8	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	+0.2
North Central	7.8	7.6	8.5	9.4	11.0	12.4	10.3	11.2	11.5	9.0	6.4	5.7	5.5	-0.2	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	-1.3
South	7.9	7.8	9.3	9.4	9.4	10.4	9.5	10.2	8.5	7.8	6.1	6.6	5.7	-0.9	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	-1.3
West	4.6	4.8	7.4	7.4	7.0	7.5	6.8	5.8	3.8	4.9	2.6	2.9	2.4	-0.5	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	-1.8
Population Density:																												
Large MSA	6.3	6.3	5.7	6.6	7.6	9.5	7.0	6.7	5.4	5.6	4.1	3.2	3.0	-0.2	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	-1.3
Other MSA	7.7	7.2	9.1	9.5	9.3	10.2	8.7	7.9	7.4	6.3	5.4	5.1	4.3	-0.8	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	-1.7
Non-MSA	7.3	7.8	10.1	9.6	11.1	11.8	11.7	12.7	12.7	11.8	7.2	7.6	7.0	-0.6	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	+0.6
Parental Education:[a]																												
1.0-2.0 (Low)	15.9	11.9	12.7	13.0	15.8	13.6	14.3	13.0	14.7	13.1	11.1	10.6	9.1	-1.5	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	+1.2
2.5-3.0	8.6	8.4	9.7	11.3	11.3	14.0	11.7	12.0	11.4	11.3	7.5	7.1	6.6	-0.6	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	-2.0
3.5-4.0	6.5	6.9	8.5	8.9	9.4	10.1	9.2	9.7	8.1	6.7	5.1	5.4	4.4	-0.9	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	-1.2
4.5-5.0	4.0	5.2	5.9	6.1	7.2	7.6	6.8	5.7	4.6	3.9	3.0	3.3	2.6	-0.7	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	-1.1
5.5-6.0 (High)	4.9	4.2	6.3	5.8	5.7	7.4	5.5	5.2	5.1	4.1	3.1	2.1	2.1	0.0	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	-1.9
Race (2-year average):[b]																												
White	—	7.7	8.8	9.7	10.5	11.7	11.4	10.4	9.7	9.0	7.5	6.0	5.3	-0.8	—	14.5	15.3	16.5	17.6	20.0	21.4	20.3	19.1	17.7	15.5	13.3	11.4	-1.9s
Black	—	1.4	1.8	2.6	2.8	3.2	3.7	3.8	3.8	3.2	2.8	2.8	2.9	+0.1	—	2.8	3.1	3.8	4.7	5.1	5.6	5.8	5.3	5.2	5.2	5.0	4.3	-0.7
Hispanic	—	7.3	7.2	9.0	9.2	8.0	8.1	8.4	8.5	7.1	5.0	4.4	3.7	-0.6	—	8.4	8.9	8.1	9.9	11.6	10.8	9.4	9.1	8.8	7.4	6.4	6.0	-0.4

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-66
Cigarettes: Trends in Thirty-Day Prevalence of Daily Use by Subgroups for Twelfth Graders

Percentage who used daily in last thirty days

	Class of:																												'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
Total	26.9	28.8	28.8	27.5	25.4	21.3	20.3	21.1	21.2	18.7	19.5	18.7	18.7	18.1	18.9	19.1	18.5	17.2	19.0	19.4	21.6	22.2	24.6	22.4	23.1	20.6	19.0	16.9	15.8	-1.1
Gender:																														
Male	26.9	28.0	27.1	26.0	22.3	18.5	18.1	18.2	19.2	16.0	17.8	16.9	16.4	17.4	17.9	18.6	18.8	17.2	19.4	20.4	21.7	22.2	24.8	22.7	23.6	20.9	18.4	17.2	17.0	-0.2
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	20.8	21.8	23.6	21.5	22.2	19.7	18.9	16.1	14.0	-2.2
College Plans:																														
None or under 4 years	—	36.5	37.2	35.2	33.8	29.7	29.3	29.5	29.3	27.2	29.6	28.2	29.0	27.4	27.9	28.3	28.4	28.1	27.8	29.8	33.7	33.2	35.6	34.6	34.2	31.7	30.1	27.6	27.9	+0.3
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	17.4	18.9	20.6	18.4	19.5	16.6	15.5	13.8	12.1	-1.7s
Region:																														
Northeast	31.4	32.3	33.8	32.5	28.6	24.1	23.3	23.4	26.1	23.6	24.9	24.9	24.8	21.4	21.3	22.8	20.9	19.4	23.5	21.3	22.5	27.0	29.4	23.4	23.2	22.8	21.9	18.4	16.4	-2.0
North Central	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	25.7	26.1	28.0	27.8	25.9	23.6	25.2	22.5	18.2	-4.4s
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	21.7	20.5	22.6	21.8	24.2	19.4	15.5	16.6	16.3	-0.3
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	14.5	13.8	17.5	15.5	17.3	16.9	13.4	9.5	11.8	+2.2
Population Density:																														
Large	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	21.3	20.7	23.7	20.6	18.6	16.7	17.4	15.0	11.5	-3.5s
Other	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	19.9	21.9	23.9	21.2	22.8	21.1	17.5	16.7	15.9	-0.8
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	24.8	24.1	26.8	27.2	28.5	24.5	23.9	19.8	21.4	+1.6
Parental Education:[a] (Low)																														
1.0-2.0	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	21.3	21.1	21.9	21.7	23.8	22.8	16.4	12.4	15.1	+2.7
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	24.6	24.4	26.0	24.7	26.9	22.9	21.9	19.8	18.3	-1.4
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	21.6	21.2	23.8	23.8	23.6	21.2	19.9	19.1	16.5	-2.6s
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	19.7	22.4	24.9	20.6	20.6	18.6	17.9	14.1	13.0	-1.1
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	18.5	20.0	22.9	17.4	19.0	15.2	13.4	14.3	11.3	-3.0
Race (2-year average):[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	23.9	25.4	27.8	28.3	26.9	25.7	23.8	21.8	19.5	-2.3
Black	—	—	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	6.1	7.0	7.2	7.4	7.7	8.0	7.5	6.4	5.4	-1.0
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	11.6	12.9	14.0	13.6	14.0	15.7	12.0	9.2	8.0	-1.2

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-67
Cigarettes: Trends in Thirty-Day Prevalence of Use of Half-pack a Day or More by Subgroups for Eighth and Tenth Graders

Percentage who used daily in last thirty days

	8th Grade														10th Grade												
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	-0.3	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	-0.2
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	-0.6	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	+0.2
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	-0.2	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	-0.8
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	-0.9	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	+0.8
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	-0.3	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	-0.4
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	-0.8	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	+0.8
North Central	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	-0.7	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	+0.2
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	+0.1	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	-1.0
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	-0.2	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	-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	-0.3	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	-0.7
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	-0.5	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	-0.6
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	0.0	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	+1.7
Parental Education:[a]																												
1.0-2.0 (Low)	7.9	6.5	6.4	5.1	8.2	6.5	6.4	6.2	6.2	7.1	5.2	4.6	3.7	-1.0	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	+1.1
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	+0.1	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	-0.6
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	-0.4	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	+0.2
4.5-5.0	1.6	1.8	2.3	2.6	2.0	2.8	2.2	2.0	1.5	1.4	0.9	1.2	0.7	-0.5	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	-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	-0.3	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	-0.6
Race (2-year average):[b]																												
White	—	3.3	3.8	4.2	4.2	4.6	4.6	4.2	4.0	3.6	3.2	2.8	2.3	-0.5	—	7.4	7.7	8.6	9.3	10.5	11.0	10.4	9.9	8.5	7.1	6.2	5.5	-0.7
Black	—	0.4	0.7	1.0	0.9	1.3	1.4	1.2	1.3	1.0	1.1	1.1	1.2	+0.1	—	0.8	0.6	1.2	1.8	1.6	1.7	1.8	1.5	1.9	1.7	1.2	1.0	-0.1
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	+0.1	—	3.0	3.0	2.6	3.4	4.3	3.3	3.0	3.1	2.9	2.7	2.2	1.8	-0.4

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-68
Cigarettes: Trends in Thirty-Day Prevalence of Use of Half-pack a Day or More by Subgroups for Twelfth Graders

Percentage who used daily in last thirty days

	Class of:																												'02–'03
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N (in 1,000s) =	*9.4*	*15.4*	*17.1*	*17.8*	*15.5*	*15.9*	*17.5*	*17.7*	*16.3*	*15.9*	*16.0*	*15.2*	*16.3*	*16.3*	*16.7*	*15.2*	*15.0*	*15.8*	*16.3*	*15.4*	*15.4*	*14.3*	*15.4*	*15.2*	*13.6*	*12.8*	*12.8*	*12.9*	*14.6*	
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	12.4	13.0	14.3	12.6	13.2	11.3	10.3	9.1	8.4	-0.8
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	13.2	13.6	15.5	13.5	14.5	11.4	10.2	10.0	9.5	-0.5
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	11.1	12.0	12.6	11.1	11.5	10.8	10.2	7.9	6.6	-1.4
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	22.6	23.1	23.5	23.7	23.2	20.3	19.3	17.5	17.2	-0.3
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	8.9	10.0	11.0	8.9	10.1	8.1	7.6	6.7	5.5	-1.3s
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	13.4	17.0	19.4	13.6	13.4	13.6	12.3	10.9	8.7	-2.2
North Central	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	14.2	15.1	16.9	16.8	15.0	13.7	14.8	13.6	10.1	-3.6ss
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	12.6	12.0	12.3	11.8	13.9	10.6	7.6	8.6	8.9	+0.3
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	8.4	6.5	8.2	7.5	9.0	7.5	6.6	3.1	5.0	+1.8s
Population Density:																														
Large	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	12.3	11.6	12.8	11.0	9.6	8.2	9.4	7.6	5.4	-2.2s
Other	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	11.1	12.8	14.3	11.7	12.6	11.6	9.4	8.7	8.4	-0.3
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	14.7	14.4	16.0	16.5	18.0	14.5	13.3	11.9	12.2	+0.3
Parental Education:[a] (Low)																														
1.0-2.0	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	13.5	13.6	11.9	12.5	15.0	16.1	10.8	7.4	8.7	+1.3
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	15.1	14.8	16.4	14.9	16.6	13.8	12.5	12.0	10.5	-1.4
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	12.7	12.3	13.9	13.8	13.1	10.7	10.6	10.3	8.7	-1.6
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	9.8	12.6	14.5	10.3	10.7	9.3	9.2	6.8	5.7	-1.1
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	9.1	10.8	11.2	7.4	9.5	7.1	6.2	5.4	4.9	-0.6
Race (2-year average):[b]																														
White	—	—	20.3	20.2	18.6	16.4	15.0	15.1	15.2	14.2	13.6	13.1	12.9	12.9	12.9	13.3	13.1	12.3	12.8	13.7	14.2	15.2	16.9	16.9	15.9	15.1	13.6	12.4	10.9	-1.5
Black	—	—	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	2.2	2.5	2.8	2.5	2.4	2.6	2.4	2.1	1.7	-0.5
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	4.1	5.3	5.8	5.2	5.8	7.0	5.3	3.8	3.0	-0.8

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-69
Smokeless Tobacco: Trends in Thirty-Day Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last thirty days

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*1750*	*0018*	*6000*	*1830*	*0173*	*0017*	*5000*	*1780*	*0186*	*0018*	*1000*	*1670*	*0167*	*0016*	*2001*	*5100*	*0016*	*500*			*1480*	*0014*	*8000*	*1530*	*0015*	*8000*	*1700*	*0156*	*0015*	*5500*	*1500*	*0013*	*6000*	*1430*	*0014*	*0001*	*4300*	*1580*	*0*	
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	+0.9	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	-0.8
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	+1.3	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	-0.3
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	+0.5	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	-0.8
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	+2.6	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	-0.6
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	+0.7	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	-0.7
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	+0.4	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	-0.3
North Central	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	-0.5	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	+0.1
South	9.5	9.3	8.0	9.9	8.7	8.1	6.7	6.9	5.9	5.8	5.4	4.1	5.9	+1.8	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	-0.8
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	+1.1	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	-1.6
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	+1.1	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	-0.8
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	+0.8	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	-1.4
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	+0.8	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	+1.0
Parental Education:[a]																												
1.0-2.0 (Low)	11.4	7.8	9.4	8.9	10.6	6.3	8.3	5.4	6.6	7.4	5.0	4.5	6.8	+2.4	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	+0.7
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	-0.1	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	-3.1s
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	+0.9	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	-0.6
4.5-5.0	4.8	7.0	5.2	6.1	5.0	6.8	4.8	4.4	3.3	2.9	2.5	2.4	3.1	+0.7	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	+0.3
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	+0.2	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	-1.0
Race (2-year average):[b]																												
White	—	8.3	8.0	8.1	8.9	8.8	7.6	6.1	5.4	5.2	4.8	4.1	3.9	-0.2	—	11.4	12.0	12.5	12.0	11.0	10.4	10.0	8.7	7.5	7.5	7.8	6.9	-0.9
Black	—	1.8	2.7	3.2	2.6	2.2	2.6	2.3	2.3	2.7	2.2	1.6	2.7	+1.0	—	2.9	2.3	2.3	2.5	2.5	2.8	2.3	1.6	2.0	3.2	2.6	2.5	-0.1
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	+0.7	—	6.2	6.1	4.3	3.6	4.0	4.6	4.8	4.8	4.5	4.0	4.0	4.1	+0.1

NOTES: Level of significance of difference between the two most recent classes: s = .05, ss = .01, sss = .001. '—' indicates data not available.
Any apparent inconsistency between the change estimate and the prevalence of use estimates for the two most recent classes is due to rounding error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.
Data based on one of two forms in 1991–96 and on two of four forms beginning in 1997; N is one-half of N indicated in Tables D-75 and D-76.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-70
Smokeless Tobacco: Trends in Thirty-Day Prevalence of Use by Subgroups for Twelfth Graders

Percentage who used in last thirty days

	Class of:																				'02–'03
	1975–79	1980–85	1986	1987	1988	1989	1990[a]	1991[a]	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N =	—	—	*15200*	*16300*	*16300*	*16700*	—	—	*15800*	*16300*	*15400*	*15400*	*14300*	*15400*	*15200*	*13600*	*12800*	*12800*	*12900*	*14600*	
Total	—	—	11.5	11.3	10.3	8.4	—	—	11.4	10.7	11.1	12.2	9.8	9.7	8.8	8.4	7.6	7.8	6.5	6.7	+0.2
Gender:																					
Male	—	—	22.3	22.8	19.9	15.9	—	—	20.8	19.7	20.3	23.6	19.5	18.7	15.6	15.5	14.4	14.2	12.2	12.5	+0.3
Female	—	—	1.6	0.7	1.7	1.2	—	—	2.0	2.3	2.6	1.8	1.1	1.2	1.5	1.3	1.3	1.6	1.2	1.0	-0.2
College Plans:																					
None or under 4 years	—	—	14.5	15.5	13.1	9.6	—	—	18.0	14.9	15.8	18.7	17.6	16.9	14.3	10.5	15.8	13.0	10.8	12.8	+2.0
Complete 4 years	—	—	9.8	9.0	8.8	7.7	—	—	9.4	9.4	9.3	9.9	7.6	7.4	7.1	7.6	5.4	6.1	4.8	4.8	+0.1
Region:																					
Northeast	—	—	9.5	7.3	5.9	5.0	—	—	8.2	9.6	12.0	9.6	8.4	6.9	2.6	4.3	5.3	5.4	5.3	6.3	+1.0
North Central	—	—	13.5	11.3	10.8	8.3	—	—	12.3	13.6	14.7	16.7	12.6	13.4	11.8	8.9	11.1	9.9	7.8	5.7	-2.0
South	—	—	12.2	13.7	12.1	9.8	—	—	12.5	11.1	9.7	11.9	9.2	9.0	10.5	10.7	7.3	8.5	7.9	7.9	+0.1
West	—	—	9.3	11.7	10.9	9.1	—	—	11.1	7.0	8.5	8.6	8.5	9.1	7.3	7.0	6.3	6.2	3.9	6.0	+2.2
Population Density:																					
Large MSA	—	—	9.0	6.4	7.7	6.8	—	—	5.9	7.1	7.5	12.5	8.6	6.5	4.7	4.9	4.2	4.4	3.4	3.4	0.0
Other MSA	—	—	8.9	10.5	8.5	7.6	—	—	11.1	9.9	11.3	9.5	7.4	7.4	7.7	8.5	7.9	8.0	5.7	6.9	+1.2
Non-MSA	—	—	17.1	17.5	16.1	11.7	—	—	16.9	15.0	14.7	16.7	15.3	17.9	16.1	11.7	11.4	11.5	11.9	10.4	-1.6
Parental Education:[b]																					
1.0-2.0 (Low)	—	—	8.6	11.7	10.7	5.3	—	—	14.9	7.0	12.3	9.8	6.3	5.8	6.1	5.4	4.3	6.3	4.1	9.3	+5.1
2.5-3.0	—	—	14.4	11.5	10.7	7.0	—	—	12.4	11.6	12.9	11.5	10.4	10.7	9.0	9.1	9.9	7.5	5.6	5.9	+0.3
3.5-4.0	—	—	11.5	12.1	10.6	9.0	—	—	12.4	10.8	9.8	12.8	9.1	10.4	9.8	8.8	8.9	8.6	7.4	6.5	-0.9
4.5-5.0	—	—	10.4	11.7	11.8	10.2	—	—	8.0	13.3	11.1	12.8	11.4	9.1	9.6	8.5	6.2	6.2	7.3	7.6	+0.3
5.5-6.0 (High)	—	—	7.7	8.1	7.2	8.4	—	—	10.6	7.8	10.2	11.6	8.1	9.9	7.4	7.9	5.7	10.3	4.6	6.2	+1.6
Race (2-year average):[c]																					
White	—	—	—	12.9	12.0	10.6	—	—	—	13.8	13.8	13.8	13.0	12.2	11.8	11.0	10.5	10.3	9.7	8.5	-1.3
Black	—	—	—	2.1	4.5	4.5	—	—	—	2.0	1.9	2.1	2.7	2.2	1.4	1.5	1.5	1.2	1.0	1.0	0.0
Hispanic	—	—	—	4.4	5.2	5.1	—	—	—	6.0	5.4	7.6	8.1	5.3	4.3	3.9	3.8	3.2	2.6	3.1	+0.5

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 error.
See Table D-77 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 D-77.

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

CAUTION: Limited sample sizes (see "Notes" above). Use caution in interpreting subgroup trends.

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

[b]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-71
Smokeless Tobacco: Trends in Thirty-Day Prevalence of Daily Use by Subgroups for Eighth and Tenth Graders

Percentage who used daily in last thirty days

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	0.0	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	+0.2
Gender:																												
Male	3.1	3.4	2.9	3.2	2.2	2.9	1.7	1.8	1.6	1.5	2.5	1.5	1.4	0.0	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	+0.7
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	0.0	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	-0.1
College Plans:																												
None or under 4 years	4.1	5.6	4.4	5.4	3.5	5.1	3.6	6.1	3.8	2.7	4.5	4.5	4.0	-0.5	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	+0.2
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	0.0	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	+0.3
Region:																												
Northeast	1.2	0.9	0.6	0.8	0.6	0.8	0.6	0.4	0.1	0.4	0.7	0.6	0.8	+0.2	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	+0.9
North Central	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	-0.5	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	0.0
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	+0.3	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	+0.3
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	0.0	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	-0.3
Population Density:																												
Large MSA	0.5	0.6	0.7	0.7	0.4	0.4	0.5	0.4	0.3	0.2	0.3	0.4	0.7	+0.4	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	-0.1
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	0.0	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	+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	-0.3	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	+0.9
Parental Education:[a]																												
1.0-2.0 (Low)	2.8	3.5	2.0	3.0	2.2	1.5	3.2	2.6	0.9	1.4	1.8	2.2	1.8	-0.4	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	0.0
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	0.0	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	+0.9
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	-0.2	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	-0.1
4.5-5.0	0.8	1.3	1.1	1.1	0.9	0.3	0.8	0.5	0.5	0.4	0.5	0.3	0.2	-0.1	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	+0.2
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	+0.2	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	0.0
Race (2-year average):[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	-0.4	—	3.8	3.9	3.8	3.3	2.9	2.5	2.7	2.4	2.1	2.4	2.3	2.1	-0.2
Black	—	0.3	0.4	0.7	0.6	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.6	+0.1	—	0.5	0.4	0.6	0.5	0.4	0.4	0.4	0.3	0.4	0.9	0.8	0.4	-0.4
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	+0.1	—	1.1	1.0	0.8	1.2	1.2	1.3	1.3	0.8	0.8	1.0	0.5	0.4	-0.1

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.
Data based on one of two forms in 1991–96 and on two of four forms beginning in 1997; N is one-half of N indicated in Tables D-75 and D-76.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-72
Smokeless Tobacco: Trends in Thirty-Day Prevalence of Daily Use by Subgroups for Twelfth Graders

Percentage who used daily in last thirty days

	Class of:																				'02–'03
	1975–79	1980–85	1986	1987	1988	1989	1990[a]	1991[a]	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N =	—	—	*1520*	*0163*	*0016*	*3700*	—	—	*1580*	*0163*	*0015*	*4001*	*5400*	*1430*	*0154*	*0015*	*2001*	*3600*	*1280*	*0128*	*0014*	*4600*	
Total	—	—	4.7	5.1	4.3	3.3	—	—	4.3	3.3	3.9	3.6	3.3	4.4	3.2	2.9	3.2	2.8	2.0	2.2	+0.2
Gender:																					
Male	—	—	10.0	10.7	8.6	6.8	—	—	7.8	6.4	7.2	7.2	7.1	8.6	6.0	5.7	6.5	5.6	4.3	4.6	+0.3
Female	—	—	0.1	0.1	0.5	0.0	—	—	0.5	0.4	0.3	0.1	0.1	0.2	0.0	0.0	0.4	0.3	0.0	0.0	0.0
College Plans:																					
None or under 4 years	—	—	7.1	7.8	5.8	4.2	—	—	7.4	4.3	6.6	6.5	6.8	9.1	6.5	3.4	7.9	4.7	2.4	5.3	+2.8
Complete 4 years	—	—	3.3	3.7	3.5	2.7	—	—	3.3	3.1	2.8	2.7	2.6	2.7	2.3	2.6	2.0	2.1	1.4	1.4	0.0
Region:																					
Northeast	—	—	4.6	2.1	2.3	1.3	—	—	1.8	1.9	4.5	2.2	3.2	3.5	0.5	1.0	1.3	1.5	1.6	2.7	+1.1
North Central	—	—	4.5	4.5	3.5	2.2	—	—	4.0	4.4	4.7	4.9	4.1	7.0	4.0	3.4	5.0	2.8	2.2	1.1	-1.1
South	—	—	6.1	7.4	6.3	4.2	—	—	5.4	4.0	3.5	4.2	3.1	3.6	4.6	4.0	4.0	3.8	2.4	2.6	+0.2
West	—	—	2.9	5.5	4.0	4.9	—	—	5.1	1.7	3.2	1.6	2.9	3.0	1.8	1.9	1.6	2.6	1.3	2.2	+0.9
Population Density:																					
Large MSA	—	—	3.4	3.3	3.0	3.0	—	—	2.0	1.7	2.0	2.1	2.6	3.3	0.9	0.5	0.9	1.4	0.4	0.5	0.0
Other MSA	—	—	3.3	4.3	2.5	2.8	—	—	4.2	3.0	3.6	3.2	1.9	3.3	2.4	3.1	3.7	2.6	2.0	2.2	+0.2
Non-MSA	—	—	7.8	8.5	8.9	4.6	—	—	6.5	5.2	6.7	5.8	6.7	7.7	7.6	4.9	5.3	5.0	3.8	4.2	+0.4
Parental Education:[b]																					
1.0-2.0 (Low)	—	—	1.9	5.6	5.3	1.8	—	—	6.7	3.9	6.6	2.7	2.2	1.3	2.2	2.1	2.9	4.0	2.2	4.9	+2.7
2.5-3.0	—	—	7.6	6.9	3.2	3.9	—	—	4.8	3.5	3.8	4.7	3.6	5.8	5.2	3.7	4.2	3.2	1.7	1.4	-0.3
3.5-4.0	—	—	3.5	4.7	5.4	3.1	—	—	5.2	3.3	3.3	2.9	3.6	3.7	2.6	3.5	3.9	2.8	2.1	2.0	-0.1
4.5-5.0	—	—	3.9	5.0	4.7	4.6	—	—	2.4	3.7	3.9	3.5	4.6	3.9	3.0	1.9	2.1	2.7	2.4	2.8	+0.4
5.5-6.0 (High)	—	—	3.3	2.1	3.5	1.2	—	—	2.6	1.8	2.7	2.7	1.1	5.0	2.5	2.1	2.5	2.5	0.2	1.8	+1.6
Race (2-year average):[c]																					
White	—	—	—	5.8	5.4	4.5	—	—	—	4.8	4.7	4.6	4.1	5.0	5.2	4.3	4.3	4.4	3.5	2.9	-0.6
Black	—	—	—	0.6	1.0	0.5	—	—	—	0.3	0.7	0.6	0.3	0.2	0.0	0.0	0.1	0.2	0.1	0.0	-0.1
Hispanic	—	—	—	0.8	2.1	2.1	—	—	—	1.6	0.7	1.2	2.2	1.9	0.8	0.4	0.9	0.6	0.3	0.7	+0.4

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 error.
See Table D-77 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 D-77.

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

CAUTION: Limited sample sizes (see "Notes" above). Use caution in interpreting subgroup trends.

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

[b]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-73
Steroids: Trends in Annual Prevalence of Use by Subgroups for Eighth and Tenth Graders

Percentage who used in last twelve months

	8th Grade														10th Grade													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	'02–'03 change
Approx. N =	*17500*	*18600*	*18300*	*17300*	*17500*	*17800*	*18600*	*18100*	*16700*	*16700*	*16200*	*15100*	*16500*		*14800*	*14800*	*15300*	*15800*	*17000*	*15600*	*15500*	*15000*	*13600*	*14300*	*14000*	*14300*	*15800*	
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	-0.1	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	-0.5ss
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	0.0	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	-0.9ss
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	-0.1	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	-0.1
College Plans:																												
None or under 4 years	2.2	2.4	2.2	2.5	2.2	1.5	2.4	2.8	4.0	3.6	3.1	3.6	2.7	-0.9	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	-0.3
Complete 4 years	0.8	0.9	0.7	1.0	0.9	0.8	0.8	1.0	1.4	1.5	1.5	1.3	1.3	-0.1	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	-0.6ss
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	-0.1	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	-0.1
North Central	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	0.0	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	+0.1
South	1.2	1.1	1.0	1.6	1.1	0.9	0.9	1.4	1.9	1.8	1.9	1.9	1.6	-0.3	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	-1.0ss
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	0.0	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	-1.0s
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	-0.1	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	-0.7s
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	0.0	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	-0.8ss
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	-0.3	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	+0.4
Parental Education:[a]																												
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	-0.5	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	+0.3
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	+0.2	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	-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	-0.4	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	-0.9s
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	+0.2	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	-0.3
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	-0.6	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	-1.7ss
Race (2-year average):[b]																												
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	-0.2	—	1.0	1.0	1.0	1.2	1.3	1.3	1.3	1.5	2.1	2.3	2.4	2.3	-0.1
Black	—	0.7	0.6	0.8	0.9	0.7	0.6	0.7	0.8	0.7	0.8	1.2	1.2	-0.1	—	0.7	0.8	0.8	0.7	0.7	0.5	0.5	0.7	1.2	1.6	1.2	0.8	-0.4
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	+0.2	—	1.2	1.4	1.3	0.9	1.1	1.2	1.2	1.5	1.8	2.1	2.1	1.8	-0.3

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 error.
See Tables D-75 and D-76 for the number of subgroup cases. See Appendix B for definition of variables in table.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-74
Steroids: Trends in Annual Prevalence of Use by Subgroups for Twelfth Graders

	Percentage who used in last twelve months																	
	Class of:																	'02–'03
	1975–79	1980–88	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	change
Approx. N =	—	—	*1670*	*0015*	*2001*	*5000*	*1580*	*0163*	*0015*	*4001*	*5400*	*1430*	*0015*	*4001*	*5200*	*1360*	*0128*	*0012*	*8001*	*2900*	*1460*	*0*
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	-0.4
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	-0.6
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	-0.2
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	-1.6
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	0.0
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	+0.8
North Central	—	—	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	-1.0
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	-0.7
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	-0.1
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	+0.1
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	-0.9
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	+0.1
Parental Education:[a]																		
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	-0.7
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	-1.6s
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	-0.1
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	0.0
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	+0.5
Race (2-year average):[b]																		
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	-0.1
Black	—	—	—	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	+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	-0.4

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 error.
See Table D-77 for the number of subgroup cases. See Appendix B for definition of variables in table.
Data based on one of six forms in 1989–90; N is one-sixth of N indicated in Table D-77. Data based on two of six forms beginning in 1991; N is two-sixths of N indicated in Table D-77.

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

[a]Parental education is an average score of mother's education and father's education. See Appendix B for details.

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

TABLE D-75
Approximate Weighted Ns by Subgroups for Eighth Graders

	8th Grade												
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
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
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
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
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
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
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
North Central	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
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
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
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
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
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
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
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
3.5-4.0	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
4.5-5.0	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
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
Race (2-year average):[a]													
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
Black	—	4,200	4,800	5,500	5,600	5,300	4,700	4,900	5,000	4,800	4,500	4,500	4,400
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

NOTES: '—' indicates data not available. See Appendix B for definition of variables in table.
SOURCE: The Monitoring the Future Study, the University of Michigan.
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, that means the entire sample received the question.

[a]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.

TABLE D-76
Approximate Weighted Ns by Subgroups for Tenth Graders

10th Grade

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
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
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
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
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
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
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
North Central	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
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
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
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
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
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
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
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
3.5-4.0	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
4.5-5.0	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
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
Race (2-year average):[a]													
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
Black	—	3,900	3,600	3,300	3,300	3,100	3,200	3,600	3,600	3,100	2,800	3,400	4,600
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

NOTES: '—' indicates data not available. See Appendix B for definition of variables in table.
SOURCE: The Monitoring the Future Study, the University of Michigan.
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, that means the entire sample received the question.

[a]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.

TABLE D-77
Approximate Weighted Ns by Subgroups for Twelfth Graders

	Class of:														
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
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
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
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
College Plans:															
None or uder 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
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
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
North Central	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
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
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
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
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
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
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
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
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
4.5-5.0	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
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
Race (2-year average):[a]															
White	—	—	23,400	26,500	27,500	25,600	26,300	27,300	26,200	24,700	24,200	23,600	23,800	24,200	24,000
Black	—	—	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
Hispanic	—	—	890	1,000	940	740	930	1,300	1,300	1,200	1,200	1,500	1,900	2,100	2,400

NOTES: '—' indicates data not available.
See Appendix B for definition of variables in table.

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

CAUTION: The Ns in this table are based on the entire twelfth-grade sample. 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, that means the entire sample received the question.

[a]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.

(Table continued on next page)

TABLE D-77 (cont.)
Approximate Weighted Ns by Subgroups for Twelfth Graders

	Class of:													
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total	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
Gender:														
Male	7,700	7,400	7,400	7,500	6,900	7,200	6,700	7,100	7,100	6,300	5,800	5,800	5,800	6,600
Female	7,100	7,200	7,900	8,200	8,000	7,800	7,100	7,700	7,500	6,700	6,400	6,500	6,600	7,400
College Plans:														
None or under 4 years	4,200	4,000	3,700	3,700	3,400	3,300	2,600	3,200	3,100	2,800	2,600	2,500	2,400	2,800
Complete 4 years	10,100	10,300	11,200	11,600	11,100	11,200	10,800	11,000	11,100	10,200	9,300	9,600	9,700	11,100
Region:														
Northeast	3,300	2,800	2,800	2,700	2,700	2,800	3,000	3,300	2,800	2,500	2,500	2,400	2,500	3,100
North Central	4,200	4,000	4,400	4,600	4,000	4,300	3,800	4,100	3,800	3,600	3,100	3,700	3,300	3,600
South	5,000	5,100	5,600	5,800	5,700	5,400	5,100	5,300	5,700	4,900	4,500	4,100	4,300	4,900
West	2,700	3,100	3,000	3,200	3,000	2,900	2,400	2,700	2,900	2,600	2,700	2,600	2,800	3,000
Population Density:														
Large MSA	3,800	3,600	3,600	3,700	4,300	4,400	3,400	4,100	4,300	3,800	3,800	3,800	4,000	4,600
Other MSA	7,700	7,200	8,200	7,800	7,100	7,000	7,000	7,500	7,500	6,200	5,800	5,800	5,900	6,500
Non-MSA	3,700	4,200	4,000	4,800	4,000	4,000	3,900	3,800	3,400	3,600	3,200	3,200	3,000	3,500
Parental Education:														
1.0-2.0 (Low)	1,600	1,500	1,400	1,600	1,400	1,200	1,100	1,300	1,200	960	860	1,000	980	1,200
2.5-3.0	4,300	4,100	4,100	4,300	3,700	3,700	3,300	3,600	3,700	3,200	3,000	2,900	2,800	3,400
3.5-4.0	4,100	4,200	4,600	4,500	4,300	4,400	3,800	4,100	4,300	3,900	3,600	3,600	3,800	4,200
4.5-5.0	3,100	3,100	3,400	3,600	3,500	3,700	3,500	3,500	3,300	3,200	3,100	3,200	3,100	3,400
5.5-6.0 (High)	1,600	1,500	1,700	1,700	1,800	1,800	2,100	2,100	2,000	1,800	1,600	1,600	1,500	1,800
Race (2-year average):[a]														
White	23,400	21,900	21,500	22,000	21,800	21,600	20,700	19,800	20,200	19,500	17,700	16,200	16,300	17,800
Black	3,500	3,200	3,900	4,200	3,600	3,300	3,200	3,600	3,700	3,400	3,300	3,100	2,900	3,000
Hispanic	2,500	2,400	2,600	2,900	3,100	2,700	2,600	2,800	3,000	2,500	2,200	2,600	3,100	3,100

NOTES: '—' indicates data not available.
See Appendix B for definition of variables in table.
SOURCE: The Monitoring the Future Study, the University of Michigan.
CAUTION: The Ns in this table are based on the entire twelfth-grade sample. 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, that means the entire sample received the question.

[a]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.

2002-2003 Change Score Calculation
for Table D-29

For other narcotics, the 2002-2003 change score is calculated as the combination of the data from half of the 2002 forms containing the old question wording plus the data from half of the 2003 forms with the new question wording minus the combination of the data from half of the 2001 forms with the old question wording combined with the data from half of the 2002 forms with the new question wording.