monitoring the future occasional paper series

Paper 91

DEMOGRAPHIC SUBGROUP TRENDS AMONG YOUNG ADULTS IN THE USE OF VARIOUS LICIT AND ILLICIT DRUGS

1988–2017

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Ann Arbor, Michigan

2018
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, at least 13,000 high school seniors have participated in the annual survey, which is conducted in some 130 high schools nationwide. Since 1991, the study's annual surveys also have included surveys of similar nationally representative samples of eighth- and tenth-grade students. In addition, subsamples of high school seniors from previously participating classes receive follow-up questionnaires by mail each year.

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

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

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

This occasional paper presents subgroup findings from the Monitoring the Future (MTF) study on levels of, and trends in, the use of a number of substances for nationally representative samples of high school graduates ages 19–30. The data have been gathered in a series of follow-up surveys of representative subsamples of high school seniors who were first surveyed in 12th grade as part of the MTF study. Therefore, the universe being described omits people who did not complete high school—between 8 and 15% of each age group, with the most recent class cohorts closer to the bottom of that range. Surveys of the graduating cohorts of high school seniors started in 1976 and have continued with each graduating class since. Data were first available for the 19–22 age group in 1980 and for the older age groups in subsequent years, as the tables and figures in this occasional paper indicate.

The general epidemiological findings from these samples are discussed in Volume II of the annual monograph series. The subgroup trends shown in the current occasional paper complement the last section of Chapter 5 (Trends in Drug Use in Early and Middle Adulthood) of that monograph by presenting the trend data for young adult subgroups in both graphic and tabular form. The results are described and discussed in Chapter 5, but the extensive set of tables and figures is provided here for the reader who wishes to view the figures and the underlying numerical values.

Three demographic dimensions are differentiated: gender, region of the country, and population density. Gender includes trends for males and females; region describes trends for each of the four major regions defined by the U.S. Census; and population density differentiates trends for five levels of community size.

The Table of Contents and List of Figures in this occasional paper contain links to the content and figures herein. Following each figure is a table giving the numerical values associated with each trend line in that figure.

---

3 Beginning in 1987, a question about state of residence was added to all follow-up questionnaires, permitting trend data to be calculated for the four regions of the country since then. The four regions are: Northeast, Midwest, South, and West.
4 Based on the respondent’s answer to the question, “During March of this year did you live mostly …,” five levels of population density are distinguished: in a very large city (over 500,000 people); in a large city (100,000 to 500,000); in a medium-sized city (50,000 to 100,000); in a small city or town (under 50,000); and on a farm/in the country.” Data on the suburbs of cities of each size were combined with the corresponding city.
FIGURE 1
Trends in Annual Any Illicit Drug Use by Gender (4 yr. Age Groupings)
FIGURE 2
Trends in Any Illicit Drug Use by Region (1-10 yrs. Past High School)
FIGURE 3
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19-22 year olds

23-26 year olds

27-30 year olds
FIGURE 4
Trends in Annual Any Illicit Drug Other Than Marijuana Use by Gender (4 yr. Age Groupings)
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**Lifetime**

**Annual**

**30-Day**

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FIGURE 6
Trends in Annual Any Illicit Drug Other Than Marijuana Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds
FIGURE 7
Trends in Annual Marijuana Use by Gender (4 yr. Age Groupings)

19-22 year olds

23-26 year olds

27-30 year olds
FIGURE 8
Trends in 30-Day Marijuana Use by Gender (4 yr. Age Groupings)
FIGURE 9
Trends in Daily Marijuana Use by Gender (4 yr. Age Groupings)
FIGURE 10
Trends in Marijuana Use by Region (1-10 yrs. Past High School)

Annual

30-Day

Daily

| Region | '87 | '88 | '89 | '90 | '91 | '92 | '93 | '94 | '95 | '96 | '97 | '98 | '99 | '00 | '01 | '02 | '03 | '04 | '05 | '06 | '07 | '08 | '09 | '10 | '11 | '12 | '13 | '14 | '15 | '16 | '17 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| NE     | 38.7| 35.9| 33.4| 29.3| 28.6| 28.5| 30.1| 28.6| 32.9| 31.8| 35.4| 34.7| 34.7| 33.3| 35.8| 32.3| 34.1| 34.1| 34.9| 34.7| 37.3| 36.3| 37.2| 39.1| 41.0| 40.8| -5.2|
| MW     | 35.4| 31.9| 29.7| 24.5| 26.1| 24.4| 26.5| 26.6| 26.5| 28.4| 28.6| 28.5| 27.3| 25.1| 28.3| 26.9| 29.7| 27.6| 31.2| 26.9| 31.3| 28.9| 32.9| 33.3| 35.3| +2.0|
| S      | 31.6| 27.2| 25.2| 21.4| 19.2| 19.9| 21.8| 20.1| 22.0| 23.6| 22.2| 25.3| 25.0| 25.1| 25.2| 24.9| 25.2| 25.1| 23.5| 25.0| 23.7| 24.8| 24.4| 24.3| 26.3| 26.1| 28.0| 28.5| 30.3| 31.6| 34.4| +2.8|
| W      | 36.4| 36.1| 30.2| 29.4| 26.9| 29.8| 26.9| 30.4| 30.1| 31.3| 29.8| 29.4| 30.0| 31.4| 31.7| 31.2| 29.9| 32.7| 32.9| 32.5| 32.3| 32.3| 35.1| 35.3| 35.3| 33.4| 36.0| 39.1| 41.9| +2.8|

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Annual

30-Day

Daily

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</table>
FIGURE 11
Trends in Annual Marijuana Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds
FIGURE 12
Trends in Thirty-Day Marijuana Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds
FIGURE 13
Trends in Daily Marijuana Use by Urbanicity (4 yr. Age Groups)
FIGURE 14
Trends in Annual Synthetic Marijuana Use by Gender (4 yr. Age Groupings)

19-22 year olds

23-26 year olds

27-30 year olds

Males

Females

Series 1

Series 2

YEAR OF ADMINISTRATION

PERCENT

Trends in Annual Synthetic Marijuana Use by Gender (4 yr. Age Groupings)
FIGURE 15
Trends in Synthetic Marijuana Use by Region (1-10 yrs. Past High School)

Annual

YEAR OF ADMINISTRATION

PERCENT

NE MW S W

'87 '88 '89 '90 '91 '92 '93 '94 '95 '96 '97 '98 '99 '00 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15 '16 '17

'16-'17 change

| NE | '87 | 5.5 | 10.1 | 14.6 | 18.1 | 21.6 | 25.1 | 28.6 | 32.1 | 35.6 | 39.1 | 42.6 | 46.1 | 49.6 | 53.1 |
| MW | '87 | 9.7 | 5.4 | 4.1 | 0.9 | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| S  | '87 | 6.6 | 4.3 | 2.4 | 1.2 | 0.5 | 0.6 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| W  | '87 | 6.6 | 4.3 | 2.4 | 1.2 | 0.5 | 0.6 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
FIGURE 16
Trends in Annual Synthetic Marijuana Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds

YEAR OF ADMINISTRATION

PERCENT

YEAR OF ADMINISTRATION

PERCENT

YEAR OF ADMINISTRATION

PERCENT

'16-'17 change

Farm/Country 17.3 10.2 1.8 1.5 2.1 1.0 3.7 +2.7
Sm. Town 13.2 6.1 3.9 2.5 2.5 1.9 1.2 -0.7
Med. City 11.7 4.0 4.0 1.2 0.9 3.4 0.8 -2.7
Lg. City 7.5 6.4 2.8 2.2 2.4 0.9 1.5 +0.5
V. Lg. City 5.7 10.2 2.8 1.1 2.8 0.0 1.3 +1.3

'16-'17 change

Farm/Country 8.7 2.7 2.6 2.0 1.6 0.0 0.0 0.0
Sm. Town 4.1 3.9 0.4 1.3 0.0 1.3 +1.3
Med. City 0.4 2.0 2.4 2.1 1.1 1.1 0.0 +0.0
Lg. City 2.4 8.0 4.3 1.1 0.4 0.0 -0.0
V. Lg. City 4.3 3.8 4.0 0.7 1.8 0.0 0.9 +0.9

'16-'17 change

Farm/Country 2.9 3.5 2.0 0.9 1.6 0.0 0.5 +0.5
Sm. Town 4.1 3.9 1.9 1.3 1.4 1.4 0.9 +0.3
Med. City 3.7 5.6 1.8 0.6 1.1 0.4 1.4 +1.0
Lg. City 2.5 1.9 1.5 0.8 0.0 0.5 0.7 +0.2
V. Lg. City 3.3 3.3 1.3 0.9 1.3 0.0 +0.9
**FIGURE 17**

Trends in Annual **Inhalant** Use by Gender (4 yr. Age Groupings)

**19-22 year olds**

- **Males**: 2.8, 3.5, 3.7, 3.5, 3.3, 3.5, 3.8, 4.6, 4.9, 4.5, 4.2, 4.3, 4.8, 4.4, 4.4, 5.2, 3.7, 4.7, 3.4, 3.8, 4.5, 4.0, 3.1, 2.9, 2.2, 2.5, 2.0, 1.8, 1.5, 2.9, 1.1, 1.8, 0.8, 1.6, 0.4, 0.7, 2.0, +1.2

- **Females**: 1.7, 0.9, 1.1, 1.6, 1.5, 1.9, 2.5, 2.9, 2.5, 1.7, 2.4, 2.3, 2.0, 2.3, 2.2, 3.3, 3.1, 3.1, 2.8, 2.1, 1.8, 1.0, 1.1, 2.0, 2.1, 1.0, 1.5, 1.2, 1.4, 1.2, 1.4, 1.0, 1.0, +0.4

**23-26 year olds**

- **Males**: 0.3, 1.0, 1.0, 0.9, 0.8, 0.9, 1.2, 1.5, 0.3, 1.1, 0.8, 1.8, 0.7, 1.4, 0.8, 1.1, 0.9, 2.3, 0.7, 0.6, 2.0, 0.6, 1.2, 0.9, 1.0, 0.4, 0.9, 0.3, 1.7, 1.3, -0.3

- **Females**: 0.2, 0.3, 0.1, 0.4, 0.3, 0.4, 0.1, 0.2, 0.5, 0.5, 0.3, 0.1, 0.3, 0.4, 0.4, 0.5, 0.0, 0.2, 0.6, 0.2, 0.4, 0.0, 0.1, 0.2, 0.5, 0.0, 0.2, 0.8, 0.1, 0.5, 0.3, -0.2

**27-30 year olds**

- **Males**: 0.8, 0.7, 0.6, 0.8, 0.5, 0.7, 0.7, 0.8, 0.7, 0.5, 0.7, 1.0, 0.6, 0.6, 0.5, 0.8, 0.3, 0.7, 0.7, 0.8, 0.6, 0.3, 0.2, 0.9, 0.1, 0.4, 0.1, 0.7, 0.3, 0.9, 1.3, 0.7, 0.0, 0.7

- **Females**: 0.8, 0.7, 0.6, 0.8, 0.5, 0.7, 0.7, 0.8, 0.7, 0.5, 0.7, 1.0, 0.6, 0.6, 0.5, 0.8, 0.3, 0.7, 0.7, 0.8, 0.6, 0.3, 0.2, 0.9, 0.1, 0.4, 0.1, 0.7, 0.3, 0.9, 1.3, 0.7, 0.0, 0.7
FIGURE 18
Trends in Inhalant Use by Region (1-10 yrs. Past High School)
FIGURE 19
Trends in Annual Inhalant Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds
FIGURE 20
Trends in Hallucinogen Use by Region (1-10 yrs. Past High School)
FIGURE 21
Trends in Annual Hallucinogen Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds
FIGURE 22
Trends in Annual LSD Use by Gender (4 yr. Age Groupings)
FIGURE 23
Trends in LSD Use by Region (1-10 yrs. Past High School)

Lifetime

| Region | 1'87 | 1'88 | 1'89 | 1'90 | 1'91 | 1'92 | 1'93 | 1'94 | 1'95 | 1'96 | 1'97 | 1'98 | 1'99 | 2'00 | 2'01 | 2'02 | 2'03 | 2'04 | 2'05 | 2'06 | 2'07 | 2'08 | 2'09 | 2'10 | 2'11 | 2'12 | 2'13 | 2'14 | 2'15 | 2'16 | 2'17 |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| NE     | 14.4 | 14.3 | 14.2 | 14.1 | 14.0 | 13.9 | 13.8 | 13.7 | 13.6 | 13.5 | 13.4 | 13.3 | 13.2 | 13.1 | 13.0 | 12.9 | 12.8 | 12.7 | 12.6 | 12.5 | 12.4 | 12.3 | 12.2 | 12.1 | 12.0 | 11.9 | 11.8 | 11.7 | 11.6 |
| MW     | 13.9 | 14.4 | 12.8 | 14.2 | 13.8 | 13.6 | 12.9 | 13.2 | 14.6 | 14.0 | 14.6 | 14.5 | 15.8 | 14.4 | 15.6 | 14.3 | 15.7 | 13.0 | 12.2 | 10.2 | 10.5 | 7.8 | 8.5 | 6.4 | 6.7 | 5.6 | 7.1 | 5.0 | 8.2 | 7.7 | 9.4 | +1.7 |
| S      | 11.4 | 11.0 | 10.3 | 11.2 | 11.9 | 11.9 | 11.8 | 12.8 | 13.2 | 13.1 | 14.9 | 14.3 | 15.7 | 13.7 | 15.0 | 13.0 | 12.8 | 9.5 | 9.5 | 7.8 | 7.2 | 5.8 | 7.0 | 5.1 | 5.0 | 6.9 | 6.6 | 5.4 | 6.6 | 7.4 | +0.8 |
| W      | 19.8 | 19.1 | 18.6 | 19.0 | 17.1 | 18.5 | 12.1 | 19.8 | 20.3 | 15.4 | 14.2 | 11.4 | 11.1 | 11.3 | 10.5 | 12.1 | 11.0 | 11.9 | 11.2 | 11.3 | 11.2 | 11.0 | 10.8 | 11.2 | 10.8 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 12.0 |

Annual

30-Day
FIGURE 25
Trends in Annual Hallucinogens Other Than LSD Use by Gender (4 yr. Age Groupings)
FIGURE 26
Trends in Hallucinogens Other Than LSD Use by Region (1-10 yrs. Past High School)
FIGURE 27
Trends in Annual Hallucinogen Other Than LSD Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds

YEAR OF ADMINISTRATION
FIGURE 28
Trends in Annual MDMA (Ecstasy, Molly) Use by Gender (4 yr. Age Groupings)
FIGURE 29
Trends in MDMA (Ecstasy, Molly) Use by Region (1-10 yrs. Past High School)

YEAR OF ADMINISTRATION


YEAR OF ADMINISTRATION


YEAR OF ADMINISTRATION


YEAR OF ADMINISTRATION


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change 16-17

change 16-17

change 16-17

change 16-17

change 16-17

change 16-17

change 16-17

change 16-17

change 16-17

change 16-17
FIGURE 30
Trends in Annual MDMA (Ecstasy, Molly) Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds

Note: Zeros in italics indicate a prevalence rate of less than 0.05%, but greater than true zero.
FIGURE 31
Trends in Annual Salvia Use by Gender (4 yr. Age Groupings)
FIGURE 32
Trends in Salvia Use by Region (1-10 yrs. Past High School)

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CHANGE

0.2
FIGURE 33
Trends in Annual Salvia Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds

Note: Zeros in italics indicate a prevalence rate of less than 0.05%, but greater than true zero.
FIGURE 34
Trends in Annual Cocaine Use by Gender (4 yr. Age Groupings)
FIGURE 35
Trends in Cocaine Use by Region (1-10 yrs. Past High School)

Lifetime

Annual

30-Day
FIGURE 36
Trends in Annual Cocaine Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds
FIGURE 37
Trends in Annual Crack Cocaine Use by Gender (4 yr. Age Groupings)
FIGURE 39
Trends in Annual Crack Cocaine Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds
FIGURE 40
Trends in Annual Heroin Use by Gender (4 yr. Age Groupings)

19-22 year olds

23-26 year olds

27-30 year olds

FIGURE 40
Trends in Annual Heroin Use by Gender (4 yr. Age Groupings)
FIGURE 41
Trends in Heroin Use by Region (1-10 yrs. Past High School)

Lifetime

YEAR OF ADMINISTRATION

Annual

30-Day

YEAR OF ADMINISTRATION

Trends in Heroin Use by Region (1-10 yrs. Past High School)
FIGURE 42
Trends in Annual Heroin Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds
FIGURE 43
Trends in Annual Narcotics Other Than Heroin Use by Gender (4 yr. Age Groupings)
FIGURE 44
Trends in Narcotics Other Than Heroin Use by Region (1-10 yrs. Past High School)
FIGURE 45
Trends in Annual Narcotics Other Than Heroin Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds

* adjusted
FIGURE 46
Trends in Annual OxyContin by Gender (4 yr. Age Groupings)
FIGURE 47
Trends in OxyContin Use by Region (1-10 yrs. Past High School)

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PERCENT

YEAR OF ADMINISTRATION
FIGURE 49
Trends in Annual Vicodin by Gender (4 yr. Age Groupings)

19-22 year olds

23-26 year olds

27-30 year olds

Males

Females
FIGURE 50
Trends in Vicodin Use by Region (1-10 yrs. Past High School)

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*15-17 change*
FIGURE 51
Trends in Annual Vicodin Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 years olds

27-30 year olds
FIGURE 52
Trends in Annual Amphetamine Use by Gender (4 yr. Age Groupings)
FIGURE 53
Trends in Amphetamine Use by Region (1-10 yrs. Past High School)

**Lifetime**

**Annual**

**30-Day**

YEAR OF ADMINISTRATION
FIGURE 54
Trends in Annual Amphetamine Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

YEAR OF ADMINISTRATION

PERCENT

20.9 24.2 15.8 17.8 17.1 13.9 12.3 10.3 8.2 6.8 6.5 6.1 6.0 3.6 5.3 8.1 6.2 6.7 6.5 8.1 7.2 9.0 8.7 7.8 7.0 5.1 7.4 7.9 2.8 9.8 4.5 7.8 8.1 3.7 8.0 4.4 9.4 5.5 7.7 -1.9

Farm/Country

Sm. Town

Med. City

Lg. City

V. Lg. City

23-26 year olds

YEAR OF ADMINISTRATION

PERCENT

12.5 12.1 8.9 6.8 6.6 6.5 3.5 3.0 4.8 3.3 4.2 3.7 1.3 3.8 4.8 5.0 4.7 5.7 5.9 4.3 5.7 5.1 3.0 4.4 5.5 3.9 4.3 4.6 3.9 3.7 4.1 2.8 4.2 3.1 -1.1

Farm/Country

Sm. Town

Med. City

Lg. City

V. Lg. City

27-30 year olds

YEAR OF ADMINISTRATION

PERCENT

5.3 5.4 3.4 3.6 3.3 2.5 4.0 1.3 2.2 2.5 2.8 2.6 2.0 3.7 3.0 3.4 3.6 3.9 5.2 3.0 4.0 3.7 3.7 3.3 4.4 3.6 3.9 4.0 5.4 +1.4

Farm/Country

Sm. Town

Med. City

Lg. City

V. Lg. City

Change
FIGURE 55
Trends in Annual Ritalin by Gender (4 yr. Age Groupings)

19-22 year olds

23-26 year olds

27-30 year olds

Males
Females

YEAR OF ADMINISTRATION

PERCENT

0.0
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2.0
3.0
4.0
5.0
6.0
7.0
8.0


Sources of data used in preparation of this report include:

Males
Females

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1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0


PERCENT

YEAR OF ADMINISTRATION

Sources of data used in preparation of this report include:
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Trends in Ritalin Use by Region (1-10 yrs. Past High School)

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Annual

PERCENT

YEAR OF ADMINISTRATION

'87 '88 '89 '90 '91 '92 '93 '94 '95 '96 '97 '98 '99 '00 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15 '16 '17

'16-'17 change:
NE +0.8
MW +0.2
S -0.4
W -0.4
FIGURE 57
Trends in Annual Ritalin Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds
FIGURE 58
Trends in Annual Adderall by Gender (4 yr. Age Groupings)

19-22 year olds

YEAR OF ADMINISTRATION

23-26 year olds

YEAR OF ADMINISTRATION

27-30 year olds

YEAR OF ADMINISTRATION

Males 10.3 10.4 11.2 9.9 10.6 10.3 11.7 8.6 8.1 -0.5

Females 6.3 7.3 7.1 6.9 8.0 7.6 7.6 8.5 8.5 0.0

Males 5.5 8.0 5.8 8.5 8.2 9.2 11.7 6.1 10.9 +4.8

Females 3.5 6.5 5.3 6.6 3.8 6.8 5.1 6.9 6.9 0.0

Males 4.0 5.1 3.3 5.7 4.1 6.6 3.9 6.2 9.9 +3.7

Females 2.8 2.1 3.0 4.0 4.0 4.9 3.2 6.0 4.9 -1.1
FIGURE 60
Trends in Methamphetamine Use by Region (1-10 yrs. Past High School)
FIGURE 61
Trends in Annual Methamphetamine Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds
FIGURE 62
Trends in Annual Crystal Methamphetamine (Ice) Use by Gender (4 yr. Age Groupings)

19-22 year olds

23-26 year olds

27-30 year olds

---

Males
Females

62
FIGURE 63
Trends in Crystal Meth (Ice) Use by Region (1-10 yrs. Past High School)

lifetime

Annual

30-Day

Note: Zeros in italics indicate a prevalence rate of less than 0.05%, but greater than true zero.
FIGURE 64  
Trends in Annual Crystal Meth (Ice) Use by Urbanicity (4 yr. Age Groups)
FIGURE 65
Trends in Annual Use of Bath Salts (Synthetic Stimulants) by Gender (4 yr. Age Groupings)
FIGURE 66
Trends in Use of Bath Salts (Synthetic Stimulants) by Region (1-10 yrs. Past High School)

Annual
FIGURE 67
Trends in Annual Bath Salts (Synthetic Stimulants) Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

YEAR OF ADMINISTRATION

23-26 year olds

YEAR OF ADMINISTRATION

27-30 year olds

YEAR OF ADMINISTRATION

16/17
Farm/Country
Sm. Town
Med. City
Lg. City
V. Lg. City

16/17
Farm/Country
Sm. Town
Med. City
Lg. City
V. Lg. City

16-17
change
Farm/Country
Sm. Town
Med. City
Lg. City
V. Lg. City
FIGURE 68
Trends in Annual Sedative (Barbiturate) Use by Gender (4 yr. Age Groupings)
FIGURE 69
Trends in Sedative (Barbiturate) Use by Region (1-10 yrs. Past High School)

Lifetime

Annual

30-Day

YEAR OF ADMINISTRATION

YEAR OF ADMINISTRATION

YEAR OF ADMINISTRATION

16-'17

change

16-'17

change

16-'17

change

S

W

NE

MW

W
FIGURE 70
Trends in Annual Sedative (Barbiturate) Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds
FIGURE 71
Trends in Annual Tranquilizer Use by Gender (4 yr. Age Groupings)
FIGURE 72
Trends in Tranquilizer Use by Region (1-10 yrs. Past High School)

Lifetime

Annual

30-Day
FIGURE 73
Trends in Annual Tranquilizer Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds
FIGURE 74
Trends in Annual Rohypnol by Gender (4 yr. Age Groupings)
FIGURE 75
Trends in Rohypnol Use by Region (1-10 yrs. Past High School)

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*Note: Values represent the percentage of individuals using Rohypnol.*

### Graph

- **NE**: Blue line and markers
- **MW**: Red line and markers
- **S**: Green line and markers
- **W**: Black line and markers

The graph shows the annual trends from 1987 to 2017 for various regions, indicating a decrease in Rohypnol use over time.
FIGURE 76
Trends in Annual GHB by Gender (4 yr. Age Groupings)
FIGURE 77
Trends in GHB Use by Region (1-10 yrs. Past High School)

Annual

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PERCENT

YEAR OF ADMINISTRATION

16 - 17 change

1987 - 2017
FIGURE 78
Trends in Annual GHB Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds

YEAR OF ADMINISTRATION

PERCENT

YEAR OF ADMINISTRATION

PERCENT

YEAR OF ADMINISTRATION

PERCENT
FIGURE 79
Trends in Annual Ketamine by Gender (4 yr. Age Groupings)

19-22 year olds

23-26 year olds

27-30 year olds
### FIGURE 80
Trends in Ketamine Use by Region (1-10 yrs. Past High School)

#### Annual

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#### Change
- NE: -0.5
- MW: 0.2
- S: 0.4
- W: 0.1

The chart shows the percentage of individuals using ketamine annually by region from 1987 to 2017, with the change in usage noted for each year.
FIGURE 81
Trends in Annual Ketamine Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

YEAR OF ADMINISTRATION

Farm/Country
Sm. Town
Med. City
Lg. City
V. Lg. City

23-26 year olds

YEAR OF ADMINISTRATION

Farm/Country
Sm. Town
Med. City
Lg. City
V. Lg. City

27-30 year olds

YEAR OF ADMINISTRATION

Farm/Country
Sm. Town
Med. City
Lg. City
V. Lg. City
FIGURE 82
Trends in 30-Day Alcohol Use by Gender (4 yr. Age Groupings)
FIGURE 83
Trends in Daily Alcohol Use by Gender (4 yr. Age Groupings)

![Graph showing trends in daily alcohol use by gender across different age groupings.](image)

- **19-22 year olds**
  - Males
  - Males: Few Sips
  - Females
  - Females: Few Sips

- **23-26 year olds**
  - Males
  - Males: Few Sips
  - Females
  - Females: Few Sips

- **27-30 year olds**
  - Males
  - Males: Few Sips
  - Females
  - Females: Few Sips

---

FIGURE 84
Trends in Two-Week Binge Drinking by Gender (4 yr. Age Groupings)

Males 53.1 56.3 51.9 53.0 52.5 53.8 54.2 49.9 49.9 49.2 47.5 48.4 46.5 46.3 48.4 44.6 45.2 49.0 49.5 46.9 47.3 48.5 47.9 45.4 45.7 47.6 43.6 45.5 42.4 40.5 41.2 42.0 38.2 39.4 41.9 33.6 35.6 36.7 +1.1

Females 31.5 32.8 32.8 31.8 30.5 30.1 29.9 30.4 31.3 29.4 28.8 30.3 28.9 29.4 28.4 27.7 28.3 30.3 28.3 31.3 30.8 32.6 31.7 30.9 33.6 32.4 34.2 34.0 32.1 30.2 28.3 29.4 31.4 29.4 26.7 26.1 27.8 28.4 +0.5

Males 46.9 50.0 46.8 48.0 47.4 47.8 48.8 46.1 44.8 46.0 43.6 44.6 46.1 44.9 45.6 48.0 47.0 49.3 48.9 48.9 51.0 50.5 51.7 51.1 52.8 52.9 48.9 48.6 44.0 47.2 42.7 42.5 42.3 38.4 -4.0

Females 23.6 23.7 22.4 23.6 22.6 21.8 21.1 22.9 24.4 24.1 23.2 21.7 23.8 22.1 24.2 26.1 25.3 25.6 29.2 29.1 29.4 30.1 31.6 31.2 33.7 33.2 31.4 33.3 32.1 30.2 26.5 29.8 29.5 28.3 -1.2

Males 38.4 40.8 39.6 39.1 40.4 37.7 40.8 38.4 39.6 40.7 39.7 42.6 37.9 41.1 40.3 40.8 42.7 43.0 43.4 43.3 44.9 46.0 47.3 45.9 45.8 46.4 44.3 40.2 40.9 40.1 -0.8

Females 17.9 17.8 16.6 15.8 16.8 18.2 17.7 17.6 17.9 18.3 19.0 16.8 17.7 17.9 19.0 19.7 21.5 22.3 22.4 23.6 24.2 25.1 24.1 26.6 23.7 25.9 22.8 23.0 23.7 +0.7
FIGURE 85
Trends in Two-Week Binge Drinking by College Student Status (by Gender)

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Trends in Two-Week Binge Drinking by College Student Status (by Gender): Males and Females aged 19-22 years old.
FIGURE 86
Trends in Alcohol Use by Region (1-10 yrs. Past High School)
FIGURE 87
Trends in Annual Alcohol Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds

Note: The alcohol prevalence question was changed in 1993 in 3 of the forms and in 1994 in all 6 forms in order to exclude consumption of less than "a few sips." N's in 1993 are one half the usual for both prevalences.
FIGURE 88
Trends in Thirty-Day Alcohol Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

![Graph showing trends in alcohol use by urbanicity for 19-22 year olds.]

23-26 year olds

![Graph showing trends in alcohol use by urbanicity for 23-26 year olds.]

27-30 year olds

![Graph showing trends in alcohol use by urbanicity for 27-30 year olds.]

Note: The alcohol prevalence question was changed in 1993 in 3 of the forms and in 1994 in all 6 forms in order to exclude consumption of less than a "few sips." Ns in 1993 are one half the usual for both prevalences.
FIGURE 89
Trends in Daily Alcohol Use by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds

Note: The alcohol prevalence question was changed in 1993 in 3 of the forms and in 1994 in all 6 forms in order to exclude consumption of less than a "few sips." N's in 1993 are one half the usual for both prevalences.
FIGURE 90
Trends in Binge Drinking by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds
FIGURE 91
Trends in 30-Day Cigarette Smoking by Gender (4 yr. Age Groupings)

Males
Females

19-22 year olds

23-26 year olds

27-30 year olds

YEAR OF ADMINISTRATION

PERCENT
FIGURE 92
Trends in Daily Cigarette Smoking by Gender (4 yr. Age Groupings)

Male
Female

19-22 year olds

23-26 year olds

27-30 year olds

YEAR OF ADMINISTRATION

YEAR OF ADMINISTRATION

YEAR OF ADMINISTRATION
FIGURE 93
Trends in Daily Half Pack or More Cigarette Smoking by Gender (4 yr. Age Groupings)

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YEAR OF ADMINISTRATION
FIGURE 94
Trends in Cigarette Smoking by Region (1-10 yrs. Past High School)

30-Day

YEAR OF ADMINISTRATION

PERCENT


Change

NE 35.5 26.3 23.1 28.6 28.5 31.4 32.7 37.5 45.7 47.8 47.8 47.8 47.5 47.8 47.5 47.5 47.5 47.5 47.5 47.5 47.5 47.5 47.5 47.5 47.5 47.5 47.5 47.5 47.5 47.5 47.5

MW 38.9 30.5 30.6 30.4 30.5 30.6 30.5 30.6 30.5 30.6 30.5 30.6 30.5 30.6 30.5 30.6 30.5 30.6 30.5 30.6 30.5 30.6 30.5 30.6 30.5 30.6 30.5 30.6 30.5 30.6

S 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3 32.3

W 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3 23.3

Daily

YEAR OF ADMINISTRATION

PERCENT


Change

NE 17.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5

MW 23.0 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7 19.7

S 24.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1

W 17.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5

Half Pack or More per Day

YEAR OF ADMINISTRATION

PERCENT


Change

NE 17.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5

MW 22.9 21.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0


W 12.1 12.1 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9 11.9

94
FIGURE 95
Trends in Thirty-Day Cigarette Smoking by Urbanicity (4 yr. Age Groups)

19-22 year olds

YEAR OF ADMINISTRATION

23-26 year olds

YEAR OF ADMINISTRATION

27-30 year olds

YEAR OF ADMINISTRATION
FIGURE 96
Trends in Daily Cigarette Smoking by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds
FIGURE 97
Trends in Half Pack or More Daily Cigarette Smoking by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds
FIGURE 98
Trends in Annual Use of Tobacco with a Hookah by Gender (4 yr. Age Groupings)

19-22 year olds

23-26 year olds

27-30 year olds

Males

Females

0.0 5.0 10.0 15.0 20.0 25.0 30.0 35.0 40.0

PERCENT

YEAR OF ADMINISTRATION

Males

Females

16-'17

change

16-'17

change

16-'17

change

-1.7

22.8 23.2 24.6 25.0 23.3 17.1 11.7 -5.4

Males

Females

-0.4

10.8 11.5 13.4 15.2 13.9 9.7 9.3

Males

Females

0.3

7.1 7.8 8.8 8.5 8.1 7.1 7.4 0.3

Males

Females

-0.1

15.4 14.7 14.3 18.2 15.3 13.7 13.7

Males

Females

-4.4

10.4 11.3 12.4 11.3 11.3 11.3 11.3 11.3

Males

Females
FIGURE 99
Trends in Use of Tobacco Using a Hookah by Region (1-10 yrs. Past High School)
FIGURE 100
Trends in Annual Use of Tobacco with a Hookah by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds

Note: Zeros in italics indicate a prevalence rate of less than 0.05%, but greater than true zero.
FIGURE 101
Trends in Annual Use of Small Cigars by Gender (4 yr. Age Groupings)

19-22 year olds

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Males: +3.0
Females: -3.0

23-26 year olds

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Males: +1.9
Females: -0.1

27-30 year olds

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Males: +2.4
Females: +1.2

YEAR OF ADMINISTRATION

PERCENT
FIGURE 102
Trends in Use of Small Cigars by Region (1-10 yrs. Past High School)
FIGURE 103
Trends in Annual Use of Small Cigars by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds

Note: Zeros in italics indicate a prevalence rate of less than 0.05%, but greater than true zero.
FIGURE 104
Trends in Annual Use of Dissolvable Tobacco by Gender (4 yr. Age Groupings)

19-22 year olds

23-26 year olds

27-30 year olds

Males
Females

YEAR OF ADMINISTRATION

PERCENT
FIGURE 105
Trends in Use of Dissolvable Tobacco by Region (1-10 yrs. Past High School)
FIGURE 106
Trends in Annual Use of Dissolvable Tobacco by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds

Note: Zeros in italics indicate a prevalence rate of less than 0.05%, but greater than true zero.
FIGURE 107
Trends in Annual Use of Snus by Gender (4 yr. Age Groupings)

19-22 year olds

23-26 year olds

27-30 year olds

YEAR OF ADMINISTRATION
FIGURE 108
Trends in Use of Snus by Region (1-10 yrs. Past High School)

Annual

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Change: 16-17
-0.2
FIGURE 109
Trends in Annual Use of Snus by Urbanicity (4 yr. Age Groups)

19-22 year olds

23-26 year olds

27-30 year olds

Note: Zeros in italics indicate a prevalence rate of less than 0.05%, but greater than true zero.