

**TABLE 1**  
**Annual Prevalence of Use for Various Types of Illicit Drugs, 2016**  
**Among Full-Time College Students**  
**1 to 4 Years beyond High School**  
**by Gender**  
(Entries are percentages.)

	<u>Total</u>	<u>Males</u>	<u>Females</u>
Any Illicit Drug <sup>a</sup>	42.8	44.9	41.5
Marijuana	39.3	41.2	38.2
Any Illicit Drug other than Marijuana <sup>a</sup>	19.7	22.7	17.9
Amphetamines, Adjusted <sup>b,c</sup>	9.8	11.3	8.8
Adderall <sup>b</sup>	9.9	9.5	10.2
Tranquilizers <sup>b</sup>	4.9	6.3	4.0
Ecstasy (MDMA)	4.7	6.3	3.7
Hallucinogens	4.5	6.2	3.5
Cocaine	4.0	6.3	2.6
Narcotics other than Heroin <sup>b</sup>	3.8	4.3	3.6
Hallucinogens other than LSD	3.4	4.3	2.8
LSD	3.1	4.5	2.2
Ritalin <sup>b</sup>	2.4	2.9	2.1
Sedatives (Barbiturates) <sup>b</sup>	2.1	2.2	2.0
OxyContin <sup>b</sup>	1.9	0.6	2.7
Vicodin <sup>b</sup>	1.3	0.8	1.6
Synthetic Marijuana	1.3	0.6	1.7
Ketamine	0.5	1.3	*
Heroin	0.2	0.6	*
Methamphetamine	*	*	*
Steroids	*	*	*
Crack	*	*	*
Bath Salts (synthetic stimulants)	*	*	*
GHB	*	*	*
Crystal Methamphetamine (Ice)	*	*	*
<i>Approximate Weighted N =</i>	<i>870</i>	<i>340</i>	<i>540</i>

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

Notes. \* \* \* indicates a prevalence rate of less than 0.05%.

See footnotes following Table 6.

**TABLE 2**  
**Annual Prevalence of Use for Alcohol and Tobacco, 2016**  
**Among Full-Time College Students**  
**1 to 4 Years beyond High School**  
**by Gender**

(Entries are percentages.)

	<u>Total</u>	<u>Males</u>	<u>Females</u>
Alcohol	78.9	77.5	79.8
Flavored Alcoholic Beverages	68.5	60.2	73.3
Been Drunk	60.7	62.3	59.8
Alcoholic Beverages containing Caffeine	29.4	35.8	25.3
Cigarettes	18.7	21.7	16.8
Small Cigars	17.6	26.3	12.5
Tobacco using a Hookah	16.9	17.7	16.4
Snus	3.3	8.9	*
Dissolvable Tobacco	0.3	0.8	*
<i>Approximate Weighted N =</i>	<i>870</i>	<i>340</i>	<i>540</i>

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

*Notes.* \* \* indicates a prevalence rate of less than 0.05%.

See footnotes following Table 6.

**TABLE 3**  
**Thirty-Day Prevalence of Use for Various Types of Drugs, 2016**  
**Among Full-Time College Students**  
**1 to 4 Years beyond High School**  
**by Gender**

(Entries are percentages.)

	<u>Total</u>	<u>Males</u>	<u>Females</u>
Marijuana	22.2	21.6	22.5
Amphetamines, Adjusted <sup>b,c</sup>	3.8	6.0	2.5
Alcohol	63.2	62.4	63.7
Been Drunk	40.8	45.4	38.1
Cigarettes	8.9	10.8	7.7
Electronic Vaporizers	6.9	9.5	5.2
Large Cigars	4.4	10.1	0.9
Flavored Little Cigars	5.6	5.4	5.8
Regular Little Cigars	3.6	4.4	3.2
<i>Approximate Weighted N =</i>	<i>870</i>	<i>340</i>	<i>540</i>

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

*Notes.* \* \* \* indicates a prevalence rate of less than 0.05%.

See footnotes following Table 6.

**TABLE 4**  
**Thirty-Day Prevalence of Daily<sup>d</sup> Use for Various Types of Drugs, 2016**  
**Among Full-Time College Students**  
**1 to 4 Years beyond High School**  
**by Gender**

(Entries are percentages.)

	<u>Total</u>	<u>Males</u>	<u>Females</u>
Marijuana	4.9	6.6	3.9
Cigarettes	2.6	2.9	2.4
Alcohol	4.3	6.1	3.2
<i>Approximate Weighted N =</i>	<i>870</i>	<i>340</i>	<i>540</i>

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

*Notes.* ' \* ' indicates a prevalence rate of less than 0.05%.

See footnotes following Table 6.

**TABLE 5**  
**Two-Week Prevalence of Binge Drinking, 2016**  
**Among Full-Time College Students**  
**1 to 4 Years beyond High School**  
**by Gender**

(Entries are percentages.)

	Total	Males	Females
5+ Drinks in a Row	32.4	35.4	30.5
<i>Approximate Weighted N =</i>	<i>870</i>	<i>340</i>	<i>540</i>
10+ Drinks in a Row*	10.1	16.5	6.2
15+ Drinks in a Row*	3.4	6.6	1.4
<i>Approximate Weighted N =</i>	<i>876</i>	<i>330</i>	<i>547</i>

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

*Notes.* ' \* ' indicates a prevalence rate of less than 0.05%.

See footnotes following Table 6.

\*Due to limited sample size, numbers for 10+ drinks in a row and 15+ drinks in a row is based on data for years 2012-2016 combined.

**TABLE 6**  
**Trends in Annual Prevalence of Various Types of Drugs**  
**among College Students 1 to 4 Years beyond High School**

(Entries are percentages.)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	(Years cont.)
Approximate Weighted N =	1,040	1,130	1,150	1,170	1,110	1,080	1,190	1,220	1,310	1,300	1,400	1,410	1,490	1,490	1,410	1,450	1,450	1,480	1,440	1,440	
Any Illicit Drug <sup>a</sup>	56.2	55.0	49.5	49.8	45.1	46.3	45.0	40.1	37.4	36.7	33.3	29.2	30.6	30.6	31.4	33.5	34.2	34.1	37.8	36.9	
Any Illicit Drug other than Marijuana <sup>a</sup>	32.3	31.7	29.9	29.9	27.2	26.7	25.0	21.3	19.2	16.4	15.2	13.2	13.1	12.5	12.2	15.9	12.8	15.8	14.0	15.4	
Synthetic Marijuana	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Marijuana	51.2	51.3	44.7	45.2	40.7	41.7	40.9	37.0	34.6	33.6	29.4	26.5	27.7	27.9	29.3	31.2	33.1	31.6	35.9	35.2	
Inhalants <sup>b</sup>	3.0	2.5	2.5	2.8	2.4	3.1	3.9	3.7	4.1	3.7	3.9	3.5	3.1	3.8	3.0	3.9	3.6	4.1	3.0	3.2	
Hallucinogens <sup>e</sup>	8.5	7.0	8.7	6.5	6.2	5.0	6.0	5.9	5.3	5.1	5.4	6.3	6.8	6.0	6.2	8.2	6.9	7.7	7.2	7.8	
LSD	6.0	4.6	6.3	4.3	3.7	2.2	3.9	4.0	3.6	3.4	4.3	5.1	5.7	5.1	5.2	6.9	5.2	5.0	4.4	5.4	
Hallucinogens other than LSD <sup>e</sup>	5.2	4.7	5.4	3.9	4.1	3.9	3.8	3.1	3.4	3.1	3.0	3.1	2.6	2.7	2.8	4.0	4.1	4.9	4.4	4.5	
Ecstasy (MDMA), original <sup>m</sup>	—	—	—	—	—	—	—	—	—	2.3	2.3	0.9	2.0	0.8	0.5	2.4	2.8	2.4	3.9	5.5	
Ecstasy (MDMA), revised <sup>m</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Salvia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Cocaine	16.8	16.0	17.2	17.3	16.3	17.3	17.1	13.7	10.0	8.2	5.6	3.6	3.0	2.7	2.0	3.6	2.9	3.4	4.6	4.6	
Crack	—	—	—	—	—	—	—	2.0	1.4	1.5	0.6	0.5	0.4	0.6	0.5	1.1	0.6	0.4	1.0	0.9	
Other Cocaine	—	—	—	—	—	—	—	10.7	10.6	9.3	5.1	3.2	2.4	2.5	1.8	3.3	2.3	3.0	4.2	4.2	
Heroin	0.4	0.2	0.1	*	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.3	0.6	0.2	
Narcotics other than Heroin <sup>b,f</sup>	5.1	4.3	3.8	3.8	3.8	2.4	4.0	3.1	3.1	3.2	2.9	2.7	2.7	2.5	2.4	3.8	3.1	4.2	4.2	4.3	
OxyContin <sup>b</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Vicodin <sup>b</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Amphetamines <sup>b,g</sup>	22.4	22.2	21.1	17.3	15.7	11.9	10.3	7.2	6.2	4.6	4.5	3.9	3.6	4.2	4.2	5.4	4.2	5.7	5.1	5.8	
Ritalin <sup>b</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Adderall <sup>b</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Methamphetamine	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.3	
Crystal Methamphetamine (Ice)	—	—	—	—	—	—	—	—	—	—	0.1	0.1	0.2	0.7	0.8	1.1	0.4	0.8	1.0	0.5	
Bath Salts (synthetic stimulants)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Sedatives (Barbiturates) <sup>b,i</sup>	2.9	2.8	3.2	2.2	1.9	1.3	2.0	1.2	1.1	1.0	1.4	1.2	1.4	1.5	1.2	2.0	2.3	3.0	2.5	3.2	
Sedatives, Adjusted <sup>b,h</sup>	8.3	8.0	8.0	4.5	3.5	2.5	2.6	1.7	1.5	1.0	—	—	—	—	—	—	—	—	—	—	
Methaqualone <sup>b</sup>	7.2	6.5	6.6	3.1	2.5	1.4	1.2	0.8	0.5	0.2	—	—	—	—	—	—	—	—	—	—	
Tranquilizers <sup>b,i</sup>	6.9	4.8	4.7	4.6	3.5	3.6	4.4	3.8	3.1	2.6	3.0	2.4	2.9	2.4	1.8	2.9	2.8	3.8	3.9	3.8	
Rohypnol	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
GHB	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Ketamine	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Alcohol <sup>j</sup>	90.5	92.5	92.2	91.6	90.0	92.0	91.5	90.9	89.6	89.6	89.0	88.3	86.9	85.1	82.7	83.2	83.0	82.4	84.6	83.6	
Been Drunk	—	—	—	—	—	—	—	—	—	—	—	69.1	67.3	65.6	63.1	62.1	64.2	66.8	67.0	65.4	
Flavored Alcoholic Beverages	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Alcoholic Beverages containing Caffeine <sup>k</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Cigarettes	36.2	37.6	34.3	36.1	33.2	35.0	35.3	38.0	36.6	34.2	35.5	35.6	37.3	38.8	37.6	39.3	41.4	43.6	44.3	44.5	
Tobacco Using a Hookah	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Small Cigars	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Snus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Dissolvable Tobacco	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Steroids	—	—	—	—	—	—	—	—	—	0.4	0.5	0.6	0.2	0.9	0.2	0.4	0.2	0.7	0.2	0.9	

(Table continued on next page.)

**TABLE 6 (cont.)**  
**Trends in Annual Prevalence of Various Types of Drugs**  
**among College Students 1 to 4 Years beyond High School**  
(Entries are percentages.)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Approximate Weighted N =	1,350	1,340	1,260	1,270	1,400	1,360	1,280	1,250	1,270	1,320	1,260	1,230	1,150	1,090	1,030	1,020	870
Any Illicit Drug <sup>a</sup>	36.1	37.9	37.0	36.5	36.2	36.6	33.9	35.0	35.2	36.0	35.0	36.3	37.3	40.5	38.6	41.4	42.8
Any Illicit Drug other than Marijuana <sup>a</sup>	15.6	16.4	16.6	17.9	18.6	18.5	18.1	17.3	15.3	16.9	17.1	16.8	17.1	19.3	20.8	18.5	19.7
Synthetic Marijuana	—	—	—	—	—	—	—	—	—	—	—	8.5	5.3	2.3	0.9	1.5	1.3
Marijuana	34.0	35.6	34.7	33.7	33.3	33.3	30.2	31.8	32.3	32.8	32.7	33.2	34.9	35.5	34.4	37.9	39.3
Inhalants <sup>b</sup>	2.9	2.8	2.0	1.8	2.7	1.8	1.5	1.5	1.1	1.2	1.7	0.9	1.5	0.5	1.3	0.6	0.2
Hallucinogens <sup>e</sup>	6.7	7.5	6.3	7.4	5.9	5.0	5.6	4.9	5.1	4.7	4.9	4.1	4.5	4.5	4.0	4.3	4.5
LSD	4.3	4.0	2.1	1.4	1.2	0.7	1.4	1.3	2.6	2.0	2.1	2.0	1.9	2.6	2.2	3.0	3.1
Hallucinogens other than LSD <sup>e</sup>	4.4	5.5	5.8	7.1	5.6	5.0	5.4	4.7	4.4	4.1	4.4	3.4	3.9	3.7	3.2	3.0	3.4
Ecstasy (MDMA), original <sup>m</sup>	9.1	9.2	6.8	4.4	2.2	2.9	2.6	2.2	3.7	3.1	4.3	4.2	5.8	5.3	5.0	—	—
Ecstasy (MDMA), revised <sup>m</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.9	4.2	4.7
Salvia	—	—	—	—	—	—	—	—	—	5.8	3.5	3.1	1.5	1.0	1.1	0.4	0.7
Cocaine	4.8	4.7	4.8	5.4	6.6	5.7	5.1	5.4	4.4	4.2	3.5	3.3	3.1	2.7	4.4	4.3	4.0
Crack	0.9	0.9	0.4	1.3	1.3	0.8	1.0	0.6	0.5	0.3	0.4	0.3	0.3	0.3	0.8	0.2	0.0
Other Cocaine	4.1	4.1	5.0	5.1	6.3	5.0	3.8	5.3	4.2	4.2	4.0	3.0	3.0	2.8	4.1	4.2	4.7
Heroin	0.5	0.4	0.1	0.2	0.4	0.3	0.3	0.2	0.3	0.4	0.2	0.1	0.1	0.3	0.0	0.1	0.2
Narcotics other than Heroin <sup>b,f</sup>	4.5	5.7	7.4	8.7	8.2	8.4	8.8	7.7	6.5	7.6	7.2	6.2	5.4	5.4	4.8	3.3	3.8
OxyContin <sup>b</sup>	—	—	1.5	2.2	2.5	2.1	3.0	2.8	3.6	5.0	2.3	2.4	1.2	2.3	1.3	1.5	1.9
Vicodin <sup>b</sup>	—	—	6.9	7.5	7.4	9.6	7.6	6.7	6.7	8.4	4.9	5.8	3.8	4.4	2.8	1.6	1.3
Amphetamines <sup>b,g</sup>	6.6	7.2	7.0	7.1	7.0	6.7	6.0	6.9	5.7	7.5	9.0	9.3	11.1	9.6	10.1	9.7	9.8
Ritalin <sup>b</sup>	—	—	5.7	4.7	4.7	4.2	3.9	3.7	3.2	1.7	1.9	2.3	1.8	3.6	1.6	2.0	2.4
Adderall <sup>b</sup>	—	—	—	—	—	—	—	—	—	10.2	9.0	9.8	9.0	10.7	9.6	10.7	9.9
Methamphetamine	1.6	2.4	1.2	2.6	2.9	1.7	1.2	0.4	0.5	0.3	0.4	0.2	0.0	0.4	0.1	0.5	0.0
Crystal Methamphetamine (Ice)	0.5	0.6	0.8	0.9	1.1	1.4	0.6	0.7	0.1	0.1	0.5	0.1	0.6	*	*	*	*
Bath Salts (synthetic stimulants)	—	—	—	—	—	—	—	—	—	—	—	—	0.3	0.1	0.2	0.1	*
Sedatives (Barbiturates) <sup>b,l</sup>	3.7	3.8	3.7	4.1	4.2	3.9	3.4	3.6	3.7	3.1	2.5	1.7	2.2	2.7	3.1	2.3	2.1
Sedatives, Adjusted <sup>b,h</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Methaqualone <sup>b</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tranquilizers <sup>b,i</sup>	4.2	5.1	6.7	6.9	6.7	6.4	5.8	5.5	5.0	5.4	4.9	4.2	3.4	4.4	3.5	4.3	4.9
Rohypnol	—	—	0.7	0.4	0.3	0.1	0.2	0.1	0.3	*	—	—	—	—	—	—	—
GHB	—	—	0.6	0.3	0.7	0.4	*	0.1	0.2	*	0.1	0.1	*	0.1	0.2	*	*
Ketamine	—	—	1.3	1.0	1.5	0.5	0.9	0.2	0.4	0.1	0.7	0.6	0.4	0.9	0.1	0.6	0.5
Alcohol <sup>j</sup>	83.2	83.0	82.9	81.7	81.2	83.0	82.1	80.9	82.1	79.4	78.6	77.4	79.2	75.6	76.1	79.0	78.9
Been Drunk	64.7	68.8	66.0	64.7	67.1	64.2	66.2	64.8	66.8	61.5	63.8	60.1	61.5	57.9	60.5	61.6	60.7
Flavored Alcoholic Beverages	—	—	—	—	63.2	67.0	63.5	62.6	65.0	66.1	60.3	63.0	58.1	57.6	64.2	64.5	68.5
Alcoholic Beverages containing Caffeine <sup>k</sup>	—	—	—	—	—	—	—	—	—	—	—	33.6	33.8	39.1	32.8	34.1	29.4
Cigarettes	41.3	39.0	38.3	35.2	36.7	36.0	30.9	30.7	30.0	29.9	28.1	25.8	23.4	23.2	22.6	20.1	18.7
Tobacco Using a Hookah	—	—	—	—	—	—	—	—	—	—	—	—	27.9	25.7	26.1	32.7	23.4
Small Cigars	—	—	—	—	—	—	—	—	—	—	—	23.6	20.3	19.0	24.2	19.6	17.6
Snus	—	—	—	—	—	—	—	—	—	—	—	6.5	4.7	4.8	5.0	5.8	3.3
Dissolvable Tobacco	—	—	—	—	—	—	—	—	—	—	—	*	0.3	0.2	0.5	1.1	0.3
Steroids	0.1	0.6	0.5	0.3	0.6	0.5	0.8	0.6	0.1	0.7	0.3	0.2	0.3	0.8	0.5	0.3	0.0

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

See footnotes on following page.

## Footnotes for Tables 1 through 6

<sup>a</sup>Use of any illicit drug includes any use of marijuana, hallucinogens, cocaine, heroin or other narcotics, amphetamines, sedatives (barbiturates), or tranquilizers not under a doctor's orders.

<sup>b</sup>Only drug use that was not under a doctor's orders is included here.

<sup>c</sup>Based on the data from the revised question, which attempts to exclude inappropriate reporting of nonprescription amphetamines.

<sup>d</sup>Daily use is defined as use on 20 or more occasions in the past 30 days except for cigarettes, measured as actual daily use, and 5+ drinks, measured as having five or more drinks in a row in the last two weeks.

<sup>e</sup>In 2001 the question text was changed on three of the six questionnaire forms. Other psychedelics was changed to other hallucinogens, and shrooms was added to the list of examples. Beginning in 2002 the remaining forms were changed to the new wording.

<sup>f</sup>In 2002 the question text was changed on three of the six questionnaire forms. The list of examples of narcotics other than heroin was updated: Talwin, laudanum, and paregoric—all of which had negligible rates of use by 2001—were replaced by Vicodin, OxyContin, and Percocet. The 2002 data presented here are based on the changed forms only; In 2003 the remaining forms were changed to the new wording.

<sup>g</sup>Revised questions about amphetamine use were introduced in 1982 to more completely exclude inappropriate reporting of nonprescription amphetamines. In 2013 the question wording was changed slightly in three of the six questionnaire forms. 2013 data are based on the changed forms only.

<sup>h</sup>Sedatives, adjusted data are a combination of barbiturate and methaqualone data.

<sup>i</sup>In 2001 the question text was changed on three of the six questionnaire forms. Miltown was replaced with Xanax in the list of examples. Beginning in 2002 the remaining forms were changed to the new wording.

<sup>j</sup>In 1993 and 1994, the question text was changed slightly in three of the six questionnaire forms to indicate that a drink meant more than just a few sips. Because this revision resulted in rather little change in reported prevalence in the surveys of high school graduates, the data for all forms combined are used in order to provide the most reliable estimate of change. After 1994 the new question text was used in all six of the questionnaire forms.

<sup>k</sup>In 2012 the alcoholic beverage containing caffeine question text was changed to alcoholic beverage mixed with an energy drink. The data in 2011 and 2012 are not comparable due to this question change.

<sup>l</sup>In 2013 the question text was changed on all forms: Tuinal, Nembutal, and Seconal were replaced with Ambien, Lunesta, and Sonata. The data in 2012 and 2013 are not comparable due to this question change.

<sup>m</sup>In 2014 a revised question on use of ecstasy (MDMA) including "Molly" was added to one form at each level. The 2013 and 2014 "Original wording" data reported here are for only the questionnaires using the original question wording. The 2014 and 2015 "Revised wording" data reported here are for only the questionnaires using the version which includes "Molly."