

Footnotes for Prevalence Dashboard

Notes. Level of significance of difference between the two most recent classes: * = .05, ** = .01, *** = .001.

. ' indicates data not available. ' ‡ ' indicates some change in the

question. See relevant footnote for that drug. Any apparent inconsistency between the change estimates and the prevalence estimates is due to rounding.

§ This estimate is not presented in 2020 due to small sample size. The survey question for this estimate appears on a randomly-selected 1/6 of the questionnaires, and the number of responses is uniquely small in 2020 when the COVID-19 pandemic halted MTF data collection prematurely and the resulting sample size was only 25% of the target.

Approximate

Weighted Ns	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
8th Graders	17,500	18,600	18,300	17,300	17,500	17,800	18,600	18,100	16,700	16,700	16,200	15,100	16,500	17,000	16,800	16,500	16,100
10th Graders	14,800	14,800	15,300	15,800	17,000	15,600	15,500	15,000	13,600	14,300	14,000	14,300	15,800	16,400	16,200	16,200	16,100
12th Graders	15,000	15,800	16,300	15,400	15,400	14,300	15,400	15,200	13,600	12,800	12,800	12,900	14,600	14,600	14,700	14,200	14,500

Approximate

Weighted Ns	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
8th Graders	15,700	15,000	15,300	16,000	15,100	14,600	14,600	14,400	16,900	15,300	14,000	13,600	3,100	10,700	9,300	5,700
10th Graders	15,100	15,900	15,200	14,900	15,000	12,900	13,000	15,600	14,700	13,500	14,300	14,000	4,800	11,000	11,200	8,100
12th Graders	14,000	13,700	14,400	14,100	13,700	12,600	12,400	12,900	11,800	12,600	13,300	12,900	3,500	8,300	8,900	7,100

^aFor 12th graders only: Use of any illicit drug includes any use of marijuana, LSD, other hallucinogens, crack, other cocaine, or heroin; or any use of narcotics other than heroin, amphetamines, sedatives (barbiturates), or tranquilizers not under a doctor's orders. For 8th and 10th graders only: The use of narcotics other than heroin and sedatives (barbiturates) has been excluded because these younger respondents appear to overreport use (perhaps because they include the use of nonprescription drugs in their answers). Due to changes in the amphetamine questions 2013 data are based on half the forms for all grades; *N* is one half of *N* indicated except for 12th grade any illicit use including inhalants which are based on one form; *N* is one sixth of *N* indicated. See amphetamine note for details. 2014 data based on all forms.

^bIn 2001 the question text was changed on half of the questionnaire forms for each age group. Other psychedelics was changed to other hallucinogens and shrooms was added to the list of examples. For the tranquilizer list of examples, Miltown was replaced with Xanax. For 8th, 10th, and 12th graders: The 2001 data presented here are based on the changed forms only; *N* is one half of *N* indicated. In 2002 the remaining forms were changed to the new wording. The data are based on all forms beginning in 2002. Data for any illicit drug other than marijuana and data for hallucinogens are also affected by these changes and have been handled in a parallel manner. For 12th graders only: Data based on five of six forms beginning in 2014; *N* is five sixths of *N* indicated. For 12th graders only: In 2015 LSD and hallucinogens other than LSD were dropped from one form. Data for hallucinogens are also affected by this change.

^cFor 12th graders only: Data based on five of six forms in 1991–1998; *N* is five sixths of *N* indicated. Data based on three of six forms beginning in 1999; *N* is three sixths of *N* indicated. For 8th and 10th graders only: Data based on three of four forms beginning in 2014; *N* is two thirds of *N* indicated.

^dDaily use is defined as use on 20 or more occasions in the past 30 days except for cigarettes and smokeless tobacco, for which actual daily use is measured, 5+ drinks, for which the prevalence of having five or more drinks in a row in the last two weeks is measured, and for vaping, for which it is defined as using every day for the past 30 days.

^eFor 8th and 10th graders only: Data based on one of four forms; *N* is one third of *N* indicated. For flavored and regular little cigars or cigarillos, large cigars, and tobacco with a hookah, data based on two of four forms until 2019 and one of four forms beginning in 2019; *N* is two sixths of *N* indicated.

Androstenedione was dropped from the study in 2016. For 12th graders only: Data based on two of six forms; *N* is two sixths of *N* indicated. Small cigar data based on one of six forms; *N* is one sixth of *N* indicated. Androstenedione was dropped from one form in 2016; *N* is one sixth of *N* indicated.

^fInhalants are unadjusted for underreporting of amyl and butyl nitrites.

^gFor 12th graders only: Data based on one of six forms; *N* is one sixth of *N* indicated. For flavored alcoholic beverages: In 2011 Skyy Blue and Zima were deleted from the list of examples. An examination of the data did not show any effect from the wording change. In 2014 PCP was dropped from one form and the annual use was moved to another form.

(Footnotes continued on next page.)

Footnotes for Prevalence Dashboard (cont.)

^hHallucinogens are unadjusted for underreporting of PCP.

ⁱFor 8th and 10th graders only: Data based on one of two forms in 1996; *N* is one half of *N* indicated. Data based on one third of *N* indicated in 1997–2001 due to changes in the questionnaire forms. Data based on two of four forms beginning in 2002; *N* is one half of *N* indicated. For 12th graders only: Data based on one of six forms in 1996–2001; *N* is one sixth of *N* indicated. Data based on two of six forms beginning in 2002; *N* is two sixths of *N* indicated. For MDMA, grades 8th, 10th, and 12th: In 2014 a revised question on use of ecstas (MDMA) was added to one form in each grade. The 2013 and 2014 "Original wording" data reported here are only for the questionnaires using the original question wording (for 8th and 10th graders *N* is one half of *N* indicated, for 12th graders *N* is two sixths of *N* indicated). The 2014 and 2015 data reported here for the "Revised wording" which includes "Molly" are for only the questionnaires using the revised wording (for 8th and 10th graders *N* is one sixth of the *N* indicated in 2014 and five sixths of the *N* indicated in 2015, for 12th graders *N* is one sixth of the *N* indicated for 2014 and three sixths of the *N* indicated in 2015).

^jFor 8th and 10th graders only: Data based on one of four forms; *N* is one third of *N* indicated. For flavored alcoholic beverages: In 2011 Skyy Blue and Zima were deleted from the list of examples. An examination of the data did not show any effect from the wording change.

^kFor 12th graders only: Data based on two of six forms; *N* is two sixths of *N* indicated. For bidis only: Data based on one of six forms beginning in 2009; *N* is one sixth of *N* indicated. For Kreteks only: Data based on one of six forms beginning in 2009; *N* is one sixth of *N* indicated.

^lFor 12th graders only: Data based on four of six forms; *N* is four sixths of *N* indicated.

^mIn 1995 the heroin question was changed in one of two forms for 8th and 10th graders and in three of six forms for 12th graders. Separate questions were asked for use with and without injection. In 1996, the heroin question was changed in all remaining 8th- and 10th-grade forms. Data presented here represent the combined data from all forms.

ⁿFor 8th and 10th graders only: Data based on one of two forms in 1995; *N* is one half of *N* indicated. Data based on all forms beginning in 1996. For 8th and 10th graders: In 2015 for use of heroin with and without a needle, the components of heroin use, were dropped from one form; *N* is four sixth of *N* indicated. For 12th graders only: Data based on three of six forms; *N* is three sixths of *N* indicated.

^oOnly drug use not under a doctor's orders is included here.

^pIn 2002 the question text was changed in half of the questionnaire forms. The list of examples of narcotics other than heroin was updated: Talwin, laudanum, and paregoric—all of which had negligible rates of use by 2001—were replaced with Vicodin, OxyContin, and Percocet. The 2002 data presented here are based on the changed forms only; *N* is one half of *N* indicated. In 2003, the remaining forms were changed to the new wording. The data are based on all forms beginning in 2003. In 2013 the list of examples was changed on one form: MS Contin, Roxycodone, Hydrocodone (Lortab, Lorcet, Norco), Suboxone, Tylox, and Tramadol were added to the list. An examination of the data did not show any effect from the wording change.

^qFor 12th graders only: Data based on two of six forms in 2002–2005; *N* is two sixths of *N* indicated. Data based on three of six forms beginning in 2006; *N* is three sixths of *N* indicated.

^rFor 8th, 10th, and 12th graders: In 2009, the question text was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change. In 2010 the remaining forms were changed in a like manner. In 2011 the question text was changed slightly in one form; bennies, Benzedrine, and Methedrine were dropped from the list of examples. An examination of the data did not show any effect from the wording change. In 2013 the question wording was changed in two of the 8th and 10th grade questionnaire forms and in three of the 12th grade questionnaires. The new wording in 2013 asked "On how many occasions (if any) have you taken amphetamines **or other prescription stimulant drugs...**" In contrast, the old wording did not include the text highlighted in red. Results in 2013 indicated higher prevalence in questionnaires with the new as compared to the old wording; it was proportionally 61% higher in 8th grade, 34% higher in 10th grade, and 21% higher in 12th grade. 2013 data are based on the changed forms only; for 8th, 10th, and 12th graders *N* is one half of *N* indicated. Beginning in 2014 all questionnaires included the new, updated wording.

^sFor 12th graders only: In 2004 the barbiturate question text was changed on half of the questionnaire forms. Barbiturates was changed to sedatives including barbiturates, and "have you taken barbiturates . . ." was changed to "have you taken sedatives . . ." In the list of examples downs, downers, goofballs, yellow, reds, blues, rainbows were changed to downs, or downers, and include Phenobarbital, Tuinal, Nembutal, and Seconal. An examination of the data did not show any effect from the wording change. In 2005 the remaining forms were changed in a like manner. In 2013 the question text was changed in all forms: Tuinal, Nembutal, and Seconal were replaced with Ambien, Lunesta, and Sonata. In one form the list of examples was also changed: Tuinal was dropped from the list and Dalmane, Restoril, Halcion, Intermezzo, and Zolpimist were added. An examination of the data did not show any effect from the wording change.

(Footnote continued on next page.)

Footnotes for Prevalence Dashboard (cont.)

^lFor 8th and 10th graders only: Data based on one of two forms in 1996; N is one half of N indicated. Data based on three of four forms in 1997–1998; N is two thirds of N indicated. Data based on two of four forms in 1999–2001; N is one third of N indicated. Data based on one of four forms beginning in 2002; N is one sixth of N indicated. For 12th graders only: Data based on one of six forms in 1996–2001; N is one sixth of N indicated. Data based on two of six forms beginning in 2002; N is two sixths of N indicated. Data for 2001 and 2002 are not comparable due to changes in the questionnaire forms. Data based on one of six forms beginning in 2010; N is one sixth of N indicated.

^uFor 12th graders only: Data based on two of six forms in 2000; N is two sixths of N indicated. Data based on three of six forms in 2001; N is three sixths of N indicated. Data based on one of six forms beginning in 2002; N is one sixth of N indicated.

^vData based on two of six forms in 2000; N is two sixths of N indicated. Data based on three of six forms beginning in 2001; N is three sixths of N indicated. Data based on two of six forms beginning in 2010; N is two sixths of N indicated.

^wFor 8th, 10th, and 12th graders: In 1993, the question text was changed slightly in half of the forms to indicate that a drink meant more than just a few sips. The 1993 data are based on the changed forms only; N is one half of N indicated for these groups. In 1994 the remaining forms were changed to the new wording. The data are based on all forms beginning in 1994. In 2004, the question text was changed slightly in half of the forms. An examination of the data did not show any effect from the wording change. The remaining forms were changed in 2005.

^xFor 8th and 10th graders, data based on one of two forms in 1991–1996; N is one half of N indicated. Data based on one of four forms beginning in 1997; N is one third of N indicated. For 12th graders, data based on one of six forms; N is one sixth of N indicated.

^yThe 2003 flavored alcoholic beverage data were created by adjusting the 2004 data to reflect the change in the 2003 and 2004 alcopops data.

^zFor 8th and 10th graders only: Data based on one of four forms; N is one third of N indicated. For 12th graders only: Data based on two of six forms; N is two sixths of N indicated. For all grades: In 2011 the question text was "...had an alcoholic beverage containing caffeine (like Four Loko or Jooze)." In 2012 the question text was changed to "...had an alcoholic beverage mixed with an energy drink (like Red Bull)." An examination of the data did not show any effect from the wording changes.

^{aa}For 8th and 10th graders only: Data based on one of two forms for 1991–1996 and on two of four forms beginning in 1997; N is one half of N indicated. For 12th graders only: Data based on one of six forms; N is one sixth of N indicated. In 2011 snus and dissolvable tobacco were added to the list of examples. An examination of the data did not show any effect from the wording change.

^{bb}For 8th, 10th, and 12th graders: In 2006, the question text was changed slightly in some of the forms. An examination of the data did not show any effect from the wording change. In 2007 the remaining forms were changed in a like manner. In 2008 and 2009 the question text was changed slightly. An examination of the data did not show any effect from the wording change. For 12th graders only: Data based on two of six forms in 1991–2005 and beginning again in 2019; N is two sixths of N indicated. Data based on three of six forms from 2006–2018; N is three sixths of N indicated.

^{cc}For 8th and 10th graders, see Tables D-S1 and D-S2 in *Volume I*, Appendix D for sample sizes. For 12th graders, data based on two of six forms in 1991–2005; N is two sixths of N indicated in Table D-S3. Data based on three of six forms beginning in 2006; N is three sixths of N indicated in Table D-S3 in *Volume I*, Appendix D.

^{dd}In 2017, the surveys switched from asking about vaping in general to asking separately about vaping nicotine, marijuana, and just flavoring. Beginning in 2017, data presented for any vaping are based on these new questions.

^{ee}For 12th graders, in 2005 data omitted for one of the questionnaire forms due to an error in the skip pattern in the questionnaire. In 2005 data based on one of six questionnaire forms and N is one sixth of N indicated. Beginning in 2006, data based on two of six forms and N is two sixths of N indicated.

^{ff}The question about current use of prescription ADHD drugs is asked differently than that for other drugs presented here. Therefore, the estimates indicate youth who reported "Yes, I take them now."

^{gg}For 8th and 10th graders only: data based on one of four forms until 2019; N is one third of N indicated. In 2019, data based on two of four forms; N is two thirds of N indicated. Beginning in 2020, data based on all available forms. For 12th graders only: data based on two of six forms until 2019; N is two sixths of N indicated. In 2019, data based on four of six forms; N is four sixths of N indicated. Beginning in 2020, data based on all available forms.

^{hh}For 8th and 10th graders only: In 2019, data based on one of four forms; N is one sixth of N indicated. Beginning in 2020, data based on all available forms. For 12th graders only: In 2019, data based on one of six forms. N is one sixth of N indicated. Beginning in 2020, data based on all available forms.

Footnotes for Prevalence Dashboard (cont.)

ⁱⁱDrug prevalence results in 2019 combine results from paper-and-pencil surveys with those completed using electronic tablets. In 2019 students in a randomly-selected half of schools completed MTF surveys on paper-and-pencil and students in the other half completed the surveys using electronic tablets. Analysis of this randomized controlled trial demonstrated that these results did not significantly differ across survey mode (Miech, R.A., Couper, M.P., Heeringa, S. G., and Patrick M. E. Forthcoming. The Impact of Survey Mode on US National Estimates of Adolescent Drug Prevalence: Results from a Randomized Controlled Study, Addiction). Results for student attitudes and beliefs in 2019 are based on answers from electronic tablets only because these appear more susceptible to survey mode effects. Readers are cautioned that large changes in these results from 2018 to 2019 may stem from survey mode effects.

^{jj}For 8th and 10th graders only: In 2021 and 2022, the question on marijuana use was changed in half of the questionnaire forms to include smoking, vaping, and edibles in the list of examples. Data presented here for 2021 and 2022 based on the forms that included the original question wording. *N* is one half of *N* indicated. Any illicit drug use, any illicit drug use including inhalants, and abstainers were also impacted by this change. Data based on all four forms again beginning in 2023.

^{kk}A survey change that removed a skip pattern in 2022 resulted in higher levels of inconsistent responses for alcohol use among 8th and 10th grade students. Specifically, as a result of the change adolescents were more likely to indicate an inconsistent pattern (i.e., report lifetime alcohol use early in the survey but then later report that they had never used alcohol). These inconsistent responders were coded as missing in 2022; the skip pattern was reintroduced into the survey in 2023.

^{ll}The use of any prescription drug includes use of any of the following: amphetamines, sedatives (barbiturates), narcotics other than heroin, or tranquilizers "...without a doctor telling you to use them."

^{mm}Includes use of any of the following: cigarettes, large cigars, flavored small cigars, regular small cigars, tobacco using a hookah, or smokeless tobacco.

ⁿⁿFor 8th and 10th graders only: Data based on one third of *N* indicated. For 12th graders only: Data based on one of six forms; *N* is one sixth of *N* indicated.

^{oo}Includes use of any of the following: cigarettes, large cigars, flavored small cigars, regular small cigars, tobacco using a hookah, smokeless tobacco, or vaping nicotine.

^{pp}In 2005, data omitted for one of the questionnaire forms due to an error in the skip pattern in the questionnaire. In 2005, data based on one of six forms and *N* is one sixth of *N* indicated. Beginning in 2006, data based on two of six forms and *N* is two sixths of *N* indicated.

^{qq}For the use of prescription ADHD drugs, the question is asked differently than that for other drugs presented here. Therefore, the estimates indicate youth who reported "Yes, I take them now."

^{rr}For 8th and 10th graders only: Data based on one third of *N* indicated. For 12th graders only: Data based on one of six forms; *N* is one sixth of *N* indicated.

^{ss}Respondents who report no use of alcohol, marijuana, or nicotine (either vaping or cigarettes).

^{tt}All results from 2020 are from surveys completed before March 15, 2020, when national social distancing policies were implemented and the survey halted due to pandemic concerns.