

**TABLE 13**  
**Trends in Disapproval of Drug Use in Grade 10**

Do you disapprove of people who . . .	Percentage who disapprove or strongly disapprove <sup>a</sup>															
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Use marijuana once or twice <sup>b</sup>	74.6	74.8	70.3	62.4	59.8	55.5	54.1	56.0	56.2	54.9	54.8	57.8	58.1	60.4	61.3	62.5
Use marijuana occasionally <sup>b</sup>	83.7	83.6	79.4	72.3	70.0	66.9	66.2	67.3	68.2	67.2	66.2	68.3	68.4	70.8	71.9	72.6
Use marijuana regularly <sup>b</sup>	90.4	90.0	87.4	82.2	81.1	79.7	79.7	80.1	79.8	79.1	78.0	78.6	78.8	81.3	82.0	82.5
Try inhalants once or twice <sup>c</sup>	85.2	85.6	84.8	84.9	84.5	86.0	86.9	85.6	88.4	87.5	87.8	88.6	87.7	88.5	88.1	88.1
Take inhalants regularly <sup>c</sup>	91.0	91.5	90.9	91.0	90.9	91.7	91.7	91.1	92.4	91.8	91.3	91.8	91.0	92.3	91.9	92.2
Take LSD once or twice <sup>d</sup>	—	—	82.1	79.3	77.9	76.8	76.6	76.7	77.8	77.0	75.4	74.6	74.4	72.4	71.8	71.2
Take LSD regularly <sup>d</sup>	—	—	86.8	85.6	84.8	84.5	83.4	82.9	84.3	82.1	80.8	79.4	77.6	75.9	75.0	74.9
Try ecstasy (MDMA, Molly) once or twice <sup>e</sup>	—	—	—	—	—	—	—	—	—	—	72.6	77.4	81.0	83.7	83.1	81.6
Take ecstasy (MDMA, Molly) occasionally <sup>e</sup>	—	—	—	—	—	—	—	—	—	—	81.0	84.6	86.3	88.0	87.4	86.0
Try cocaine once or twice <sup>b</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Take cocaine occasionally <sup>b</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Try crack once or twice <sup>c</sup>	92.5	92.5	91.4	89.9	88.7	88.2	87.4	87.1	87.8	87.1	86.9	88.0	87.6	88.6	88.8	89.5
Take crack occasionally <sup>c</sup>	94.3	94.4	93.6	92.5	91.7	91.9	91.0	90.6	91.5	90.9	90.6	91.0	91.0	91.8	91.8	92.0
Try cocaine powder once or twice <sup>c</sup>	90.8	91.1	90.0	88.1	86.8	86.1	85.1	84.9	86.0	84.8	85.3	86.4	85.9	86.8	86.9	87.3
Take cocaine powder occasionally <sup>c</sup>	94.0	94.0	93.2	92.1	91.4	91.1	90.4	89.7	90.7	89.9	90.2	89.9	90.4	91.2	91.2	91.4
Try heroin once or twice without using a needle <sup>d</sup>	—	—	—	—	89.7	89.5	89.1	88.6	90.1	90.1	89.1	89.2	89.3	90.1	90.3	91.1
Take heroin occasionally without using a needle <sup>d</sup>	—	—	—	—	91.6	91.7	91.4	90.5	91.8	92.3	90.8	90.7	90.6	91.8	92.0	92.5
Try one or two drinks of an alcoholic beverage (beer, wine, liquor) <sup>b</sup>	37.6	39.9	38.5	36.5	36.1	34.2	33.7	34.7	35.1	33.4	34.7	37.7	36.8	37.6	38.5	37.8
Take one or two drinks nearly every day <sup>b</sup>	81.7	81.7	78.6	75.2	75.4	73.8	75.4	74.6	75.4	73.8	73.8	74.9	74.2	75.1	76.9	76.4
Have five or more drinks once or twice each weekend <sup>b</sup>	76.7	77.6	74.7	72.3	72.2	70.7	70.2	70.5	69.9	68.2	69.2	71.5	71.6	71.8	73.7	72.9
Smoke one to five cigarettes per day <sup>e</sup>	—	—	—	—	—	—	—	—	67.8	69.1	71.2	74.3	76.2	77.5	79.3	80.2
Smoke one or more packs of cigarettes per day <sup>f</sup>	79.4	77.8	76.5	73.9	73.2	71.6	73.8	75.3	76.1	76.7	78.2	80.6	81.4	82.7	84.3	83.2
Use electronic cigarettes (e-cigarettes) regularly <sup>e</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Vape marijuana occasionally <sup>b</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Vape marijuana regularly <sup>b</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Vape an e-liquid with nicotine occasionally <sup>e,h</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Vape an e-liquid with nicotine regularly <sup>e,h</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Use JUUL occasionally <sup>e</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Use JUUL regularly <sup>e</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Use smokeless tobacco regularly <sup>b</sup>	75.4	74.6	73.8	71.2	71.0	71.0	72.3	73.2	75.1	75.8	76.1	78.7	79.4	80.2	80.5	80.5
Take steroids <sup>g</sup>	90.0	91.0	91.2	90.8	—	—	—	—	—	—	—	—	—	—	—	—
<i>Approximate weighted N = 14,800 14,800 15,300 15,900 17,000 15,700 15,600 15,000 13,600 14,300 14,000 14,300 15,800 16,400 16,200 16,200</i>																

Table continued on next page.

**TABLE 13 (cont.)**  
**Trends in Disapproval of Drug Use in Grade 10**

Percentage who disapprove or strongly disapprove<sup>a</sup>

Do you disapprove of people who . . .	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 <sup>i</sup>	2020	2021 <sup>m</sup>
Use marijuana once or twice <sup>b</sup>	63.9	64.5	60.1	59.2	58.5	56.2	53.2	53.8	52.7	52.6	48.1	47.9	46.9	§	47.8*
Use marijuana occasionally <sup>b</sup>	73.3	73.6	69.2	68.0	67.9	65.7	62.1	62.9	62.6	61.9	58.1	57.4	56.0	§	56.6*
Use marijuana regularly <sup>b</sup>	82.4	83.0	79.9	78.7	78.8	77.3	73.8	74.6	74.3	73.5	70.2	69.7	67.7	§	70.2*
Try inhalants once or twice <sup>c</sup>	87.6	87.1	87.0	86.5	86.9	85.7	86.1	85.9	84.1	83.3	80.7	81.8	79.5	§	74.5*
Take inhalants regularly <sup>c</sup>	91.8	91.6	91.1	90.8	90.9	90.0	89.7	89.7	88.3	87.1	85.4	86.9	83.9	§	83.4*
Take LSD once or twice <sup>d</sup>	67.7	66.3	67.8	68.2	68.5	68.3	69.1	67.8	70.3	69.5	66.9	70.5	71.3	§	63.3*
Take LSD regularly <sup>d</sup>	71.5	69.8	72.2	72.9	72.5	73.0	74.2	73.3	76.5	74.9	74.5	76.5	79.9	§	75.3*
Try ecstasy (MDMA, Molly) once or twice <sup>e</sup>	80.0	78.1	76.5	75.5	76.1	75.3	75.4	74.4‡	78.0	76.8	74.7	75.3	76.6	§	68.6*
Take ecstasy (MDMA, Molly) occasionally <sup>e</sup>	84.3	83.0	81.3	81.3	82.2	81.2	81.3	80.4‡	84.0	81.7	80.0	79.5	82.4	§	75.8*
Try cocaine once or twice <sup>b</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	§	84.7*
Take cocaine occasionally <sup>b</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	§	89.0*
Try crack once or twice <sup>c</sup>	89.5	90.8	90.4	90.3	90.9	91.0	90.6	90.6	90.1	89.7	88.4	89.5	88.0	—	—
Take crack occasionally <sup>c</sup>	92.7	92.9	92.8	92.4	93.0	93.0	92.4	92.4	92.1	91.1	90.0	91.2	90.0	—	—
Try cocaine powder once or twice <sup>c</sup>	87.7	88.6	88.4	89.0	89.4	89.3	88.7	88.9	87.9	87.9	86.1	87.6	86.0	—	—
Take cocaine powder occasionally <sup>c</sup>	92.0	92.1	92.1	92.2	92.5	92.4	91.8	91.9	91.8	90.8	89.9	90.9	89.1	—	—
Try heroin once or twice without using a needle <sup>d</sup>	90.7	91.4	91.6	91.4	91.6	91.9	91.3	91.9	91.7	90.2	89.7	90.6	89.0	§	89.5*
Take heroin occasionally without using a needle <sup>d</sup>	92.5	92.5	93.0	92.4	92.4	92.9	92.3	92.7	92.7	90.9	90.5	91.2	89.3	§	90.3*
Try one or two drinks of an alcoholic beverage (beer, wine, liquor) <sup>b</sup>	39.5	41.8	39.7	40.3	41.5	39.6	38.5	40.7	40.0	41.8	39.3	39.6	41.0	§	36.7*
Take one or two drinks nearly every day <sup>b</sup>	77.1	79.1	77.6	77.6	80.0	78.0	77.1	77.9	78.2	78.6	77.7	77.9	77.6	§	77.1*
Have five or more drinks once or twice each weekend <sup>b</sup>	74.1	77.2	75.1	75.9	77.3	77.5	77.8	79.5	79.6	80.8	80.1	80.4	78.8	§	78.4*
Smoke one to five cigarettes per day <sup>e</sup>	79.7	82.5	80.0	80.6	82.1	—	—	—	—	—	—	—	—	—	—
Smoke one or more packs of cigarettes per day <sup>f</sup>	84.7	85.2	84.5	83.9	85.8	86.0	86.1	88.0	88.3	88.5	87.8	88.5	87.2	§	86.5*
Use electronic cigarettes (e-cigarettes) regularly <sup>e</sup>	—	—	—	—	—	—	—	54.6	59.9	65.0	—	—	—	—	—
Vape marijuana occasionally <sup>b</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	§	65.3*
Vape marijuana regularly <sup>b</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	§	74.8*
Vape an e-liquid with nicotine occasionally <sup>e,h</sup>	—	—	—	—	—	—	—	—	—	—	59.3	58.0	58.5	§	65.8*
Vape an e-liquid with nicotine regularly <sup>e,h</sup>	—	—	—	—	—	—	—	—	—	—	68.3	67.8	71.2	§	76.7*
Use JUUL occasionally <sup>e</sup>	—	—	—	—	—	—	—	—	—	—	—	—	59.0	§	71.4*
Use JUUL regularly <sup>e</sup>	—	—	—	—	—	—	—	—	—	—	—	—	69.8	§	79.2*
Use smokeless tobacco regularly <sup>b</sup>	80.9	81.8	79.5	78.5	79.5	79.5	77.7	78.7	80.1	81.2	80.7	80.7	80.2	§	79.6*
Take steroids <sup>g</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Approximate weighted N = 16,100 15,100 15,900 15,200 14,900 15,000 12,900 13,000 15,600 14,700 13,500 14,300 7,000 § 11,000															

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**TABLE 13 (cont.)**  
**Trends in Disapproval of Drug Use in Grade 10**

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

*Notes.* Level of significance of difference between the two most recent classes:  $s = .05$ ,  $ss = .01$ ,  $sss = .001$ . '—' indicates data not available. Any apparent inconsistency between the change estimate and the prevalence estimates for the two most recent years is due to rounding. '‡' indicates that the question changed the following year.

§Estimates not presented due to insufficient data this year.

\*Results may not be comparable to previous years. In 2021 MTF conducted survey administrations via the internet for the first time, and responses, especially on attitudes, can be sensitive to mode effects.

<sup>a</sup>Answer alternatives were: (1) Don't disapprove, (2) Disapprove, (3) Strongly disapprove, and (4) Can't say, drug unfamiliar. Percentages are shown for categories (2) and (3) combined.

<sup>b</sup>Beginning in 2012, data based on two thirds of  $N$  indicated.

<sup>c</sup>Beginning in 1997, data based on two thirds of  $N$  indicated due to changes in questionnaire forms.

<sup>d</sup>Data based on one of two forms in 1993–1996;  $N$  is one half of  $N$  indicated. Beginning in 1997, data based on one third of  $N$  indicated due to changes in questionnaire forms.

<sup>e</sup>Data based on one third of  $N$  indicated. For MDMA "Molly" was added to the question text in 2015; 2014 and 2015 data are not comparable due to this change.

<sup>f</sup>Beginning in 1999, data based on two thirds of  $N$  indicated due to changes in questionnaire forms.

<sup>g</sup>Data based on two forms in 1991 and 1992. Data based on one of two forms in 1993 and 1994;  $N$  is one half of  $N$  indicated.

<sup>h</sup>Percentages for all years reported here include respondents who replied "can't say, drug unfamiliar" in the denominator. The percentage for 2017 published in late 2017 and early 2018 did not include these respondents in the denominator.

<sup>i</sup>The  $N$  for 2019 is approximately one-half of that for the full sample, because it is based on the half-sample who received the traditional paper and pencil questionnaire form.

<sup>m</sup>Sample is decreased by as much as 50% for the following drugs due to survey question experiments: alcohol, inhalants, heroin, JUUL, LSD, and ecstasy (MDMA, molly).