

SUPPLEMENTARY TABLE. Percentage of middle and high school students who reported ever using tobacco product, by product,* overall and by school level, sex, and race and ethnicity — National Youth Tobacco Survey, United States, 2022

Tobacco Product	Sex		Race and ethnicity†							Total	
	Female, % (95% CI)	Male, % (95% CI)	White, NH, % (95% CI)	Black or African American, NH, % (95% CI)	Hispanic, % (95% CI)	Asian, NH, % (95% CI)	AI/AN, NH, % (95% CI)	NH/OPI, NH, % (95% CI)	Multiple, NH, % (95% CI)	% (95% CI)	Estimated no. of users‡
Overall											
Any tobacco product¶	25.7 (23.4–28.2)	24.0 (21.5–26.7)	26.4 (23.6–29.5)	24.6 (21.4–28.2)	24.9 (22.9–27.0)	11.4 (7.8–16.5)	30.2 (23.9–37.3)	21.6 (12.3–35.2)	28.7 (23.9–34.1)	24.8 (22.5–27.3)	6,770,000
E-cigarettes	21.6 (19.3–24.1)	18.6 (16.2–21.2)	22.2 (19.4–25.3)	16.7 (13.9–19.8)	20.2 (18.4–22.3)	7.5 (4.4–12.7)	19.6 (14.8–25.5)	—**	23.8 (19.2–29.1)	20.0 (17.8–22.4)	5,450,000
Cigarettes	8.2 (7.0–9.5)	8.5 (7.1–10.1)	9.8 (8.2–11.6)	5.5 (4.3–6.9)	8.1 (6.9–9.3)	3.1 (2.3–4.1)	15.5 (11.0–21.5)	—	8.4 (6.3–11.0)	8.3 (7.2–9.6)	2,260,000
Cigars	4.3 (3.6–5.2)	7.1 (5.8–8.7)	6.3 (5.1–7.8)	7.3 (5.7–9.1)	4.7 (3.8–5.8)	—	7.6 (4.4–12.9)	—	7.1 (5.2–9.7)	5.7 (4.8–6.9)	1,550,000
Smokeless tobacco (composite)**	2.5 (2.1–3.0)	5.2 (4.1–6.5)	5.3 (4.4–6.4)	1.6 (1.1–2.3)	2.9 (2.2–3.7)	—	8.1 (5.4–12.0)	—	4.0 (2.9–5.5)	3.9 (3.2–4.7)	1,040,000
Hookahs	3.3 (2.7–4.0)	3.1 (2.5–3.9)	2.3 (1.8–3.0)	6.0 (4.6–7.7)	3.7 (2.8–4.8)	—	5.0 (3.1–8.0)	—	4.8 (3.1–7.5)	3.2 (2.7–3.8)	860,000
Nicotine pouches	1.3 (1.0–1.6)	3.2 (2.2–4.6)	3.2 (2.3–4.4)	—	1.6 (1.1–2.3)	—	—	—	2.1 (1.3–3.5)	2.3 (1.7–3.0)	580,000
Heated tobacco products	1.5 (1.2–1.9)	2.2 (1.8–2.7)	1.7 (1.4–2.0)	1.8 (1.2–2.7)	2.3 (1.7–3.1)	—	—	—	2.4 (1.4–3.9)	1.9 (1.6–2.2)	470,000
Pipe tobacco	1.1 (0.8–1.4)	1.6 (1.3–2.1)	1.3 (1.0–1.7)	0.9 (0.5–1.6)	1.7 (1.2–2.2)	—	—	—	1.7 (1.0–3.0)	1.4 (1.1–1.7)	360,000
Any combustible tobacco product§§	12.5 (11.1–14.1)	13.4 (11.6–15.3)	13.4 (11.6–15.4)	15.1 (12.8–17.8)	12.4 (11.0–14.1)	5.1 (3.8–6.8)	18.9 (14.0–24.9)	—	15.7 (12.6–19.5)	12.9 (11.5–14.6)	3,510,000
Multiple tobacco products¶¶	10.9 (9.5–12.4)	11.5 (9.8–13.5)	12.4 (10.6–14.5)	10.2 (8.2–12.7)	10.9 (9.6–12.4)	3.0 (1.9–4.6)	18.7 (13.9–24.7)	—	13.7 (10.8–17.3)	11.2 (9.8–12.8)	3,060,000
High school (grades 9–12)											
Any tobacco product¶	34.8 (32.3–37.4)	32.9 (30.2–35.8)	36.5 (33.8–39.4)	30.5 (26.7–34.7)	32.6 (30.0–35.3)	16.9 (9.5–28.2)	41.1 (33.2–49.4)	—	38.5 (33.0–44.4)	33.9 (31.5–36.3)	5,180,000
E-cigarettes	30.5 (28.1–33.0)	27.3 (24.6–30.2)	32.3 (29.7–35.1)	22.8 (19.3–26.6)	27.6 (25.1–30.3)	—	26.7 (19.7–35.1)	—	33.4 (27.6–39.7)	28.9 (26.6–31.3)	4,410,000
Cigarettes	10.4 (8.8–12.2)	11.4 (9.7–13.4)	13.3 (11.3–15.6)	5.4 (4.2–6.8)	10.0 (8.2–12.0)	4.5 (2.7–7.6)	20.9 (13.5–31.0)	—	10.7 (7.8–14.6)	10.9 (9.5–12.6)	1,660,000
Cigars	6.2 (5.3–7.3)	10.9 (9.3–12.9)	9.8 (8.3–11.6)	9.2 (7.1–11.8)	6.8 (5.6–8.2)	—	12.9 (7.0–22.6)	—	10.0 (7.6–13.2)	8.6 (7.5–9.9)	1,300,000
Smokeless tobacco (composite)**	2.8 (2.2–3.6)	6.9 (5.5–8.6)	7.0 (5.9–8.5)	1.5 (0.9–2.6)	3.0 (2.2–4.2)	—	10.2 (5.8–17.3)	—	4.9 (3.3–7.3)	4.9 (4.0–5.9)	740,000
Hookahs	4.4 (3.7–5.4)	4.6 (3.7–5.6)	3.5 (2.8–4.4)	8.2 (6.6–10.0)	4.3 (3.2–5.9)	—	8.1 (4.8–13.1)	—	6.8 (4.4–10.4)	4.5 (3.9–5.3)	680,000
Nicotine pouches	1.3 (0.9–1.8)	4.8 (3.3–6.8)	4.8 (3.5–6.5)	—	1.4 (1.0–2.1)	—	—	—	2.9 (1.7–4.8)	3.1 (2.2–4.2)	440,000
Heated tobacco products	2.0 (1.5–2.6)	2.5 (2.0–3.2)	2.3 (1.9–2.8)	1.9 (1.1–3.2)	2.6 (2.0–3.4)	—	—	—	—	2.3 (1.9–2.7)	310,000
Pipe tobacco	1.3 (1.0–1.8)	2.1 (1.7–2.7)	1.8 (1.4–2.4)	—	1.8 (1.3–2.6)	—	—	—	—	1.7 (1.4–2.1)	260,000
Any combustible tobacco product§§	16.7 (14.9–18.7)	18.7 (16.6–21.0)	18.7 (16.6–21.0)	18.9 (16.2–21.8)	16.0 (14.0–18.4)	7.6 (4.4–12.8)	26.3 (18.5–36.0)	—	21.7 (17.8–26.2)	17.7 (16.1–19.5)	2,690,000

Multiple tobacco products ^{¶¶}	14.8 (13.2–16.7)	16.8 (14.7–19.2)	17.9 (15.9–20.1)	13.9 (11.3–16.9)	13.9 (12.0–16.1)	—	27.6 (20.3–36.2)	—	19.6 (15.7–24.2)	15.9 (14.2–17.7)	2,420,000
Middle school (grades 6–8)											
Any tobacco product [¶]	13.9 (12.4–15.4)	12.5 (10.8–14.4)	12.4 (10.6–14.4)	16.4 (13.5–19.9)	14.7 (12.6–17.0)	6.2 (4.4–8.5)	17.8 (12.0–25.7)	—	16.5 (11.5–23.1)	13.1 (11.7–14.7)	1,560,000
E-cigarettes	9.9 (8.5–11.6)	7.2 (6.0–8.6)	8.0 (6.6–9.7)	8.2 (6.3–10.6)	10.4 (8.9–12.0)	—	11.6 (7.5–17.6)	—	11.8 (7.7–17.7)	8.5 (7.4–9.8)	1,010,000
Cigarettes	5.2 (4.2–6.4)	4.7 (3.8–5.7)	4.9 (3.8–6.3)	5.6 (3.8–8.1)	5.3 (4.4–6.5)	1.6 (1.0–2.8)	9.5 (5.2–16.8)	—	5.4 (3.3–8.5)	4.9 (4.2–5.8)	580,000
Cigars	1.7 (1.3–2.4)	2.1 (1.5–3.0)	1.5 (1.0–2.3)	4.6 (3.1–6.7)	1.6 (1.1–2.4)	—	—	—	3.5 (1.9–6.2)	1.9 (1.5–2.5)	220,000
Smokeless tobacco (composite) ^{¶¶}	2.0 (1.5–2.6)	2.8 (2.0–3.9)	2.9 (2.0–4.1)	—	2.3 (1.6–3.2)	1.0 (0.6–1.9)	—	—	—	2.4 (1.9–3.1)	280,000
Hookahs	1.6 (1.1–2.3)	1.2 (0.8–1.7)	0.5 (0.3–1.0)	2.9 (1.8–4.7)	2.4 (1.6–3.5)	—	—	—	—	1.4 (1.1–1.8)	160,000
Nicotine pouches	1.2 (0.8–1.8)	1.1 (0.7–1.8)	1.0 (0.7–1.6)	—	—	—	—	—	—	1.1 (0.8–1.6)	120,000
Heated tobacco products	0.9 (0.6–1.3)	1.6 (1.2–2.1)	0.8 (0.5–1.2)	—	1.5 (0.8–2.6)	—	—	—	—	1.3 (1.0–1.5)	140,000
Pipe tobacco	0.6 (0.4–0.9)	0.9 (0.6–1.4)	0.6 (0.4–1.0)	—	0.9 (0.6–1.4)	—	—	—	—	0.8 (0.5–1.1)	80,000
Any combustible tobacco product ^{§§}	7.0 (5.9–8.3)	6.4 (5.4–7.6)	6.0 (4.7–7.5)	10.0 (7.4–13.3)	7.3 (6.2–8.6)	2.8 (1.7–4.6)	10.6 (6.0–17.8)	—	8.3 (5.7–12.0)	6.7 (5.9–7.7)	790,000
Multiple tobacco products ^{¶¶}	5.7 (4.6–7.0)	4.6 (3.6–5.8)	4.6 (3.5–6.1)	5.2 (3.5–7.5)	6.5 (5.5–7.6)	1.4 (0.8–2.4)	8.7 (5.0–14.9)	—	6.3 (4.0–9.6)	5.1 (4.3–6.0)	600,000

Abbreviation: AI/AN = American Indian or Alaska Native; NH/OPI = Native Hawaiian or other Pacific Islander; NH = non-Hispanic.

* Ever use is defined as ever having used the product, even once or twice. Because of missing data on the ever use questions, denominators for each tobacco product might be different. For each question, response options were “yes” or “no.”

[†] The race and ethnicity measure used in analyses allowed for multiple races, which differs from the measure used in previous National Youth Tobacco Survey publications that categorized all respondents into single race and ethnicity groups. Hispanic persons could be of any race (White, Black or African American, Asian, AI/AN, NH/OPI, or multiple races).

[§] Estimated weighted total number of ever tobacco product users was rounded down to the nearest 10,000 persons. Overall estimates were reported among 28,291 U.S. middle and high school students. School level was determined by self-reported grade level: high school (grades 9–12; n = 16,118) and middle school (grades 6–8; n = 12,041). Overall population estimates might not total to sums of corresponding subgroup population estimates due to rounding or inclusion of students who did not self-report sex, race and ethnicity, or grade level.

[¶] Any tobacco product use is defined as ever use of one or more of the following tobacco products: e-cigarettes, cigarettes, cigars, smokeless tobacco (chewing tobacco, snuff, and dip; snus; and dissolvable tobacco products), hookahs, nicotine pouches, heated tobacco products, pipe tobacco, or bidis (small brown cigarettes wrapped in a leaf).

** Dashes indicated that data were statistically unreliable because of an unweighted denominator <50 or a relative standard error >30%.

^{¶¶} Smokeless tobacco was defined as chewing tobacco, snuff, dip, snus, or dissolvable tobacco products.

^{§§} Any combustible tobacco product use was defined as ever use of one or more of the following tobacco products: cigarettes, cigars, hookahs, pipe tobacco, or bidis.

^{¶¶} Multiple tobacco product use was defined as ever use of two or more of the following tobacco products: e-cigarettes, cigarettes, cigars, smokeless tobacco, hookahs, nicotine pouches, heated tobacco products, pipe tobacco, or bidis.