

SUPPLEMENTARY TABLE 2. Flavored tobacco product (except exclusive use of tobacco-flavored or unflavored)* use among middle and high school students overall and among those who reported current (past 30-day) use[†] of each tobacco product, by school level, sex, and race and ethnicity — National Youth Tobacco Survey, United States, 2023

Characteristic	Tobacco product type, % (95% CI)									
	Any tobacco [§]	E-cigarettes	Cigarettes [¶]	Cigars ^{**}	Smokeless tobacco (composite) ^{**}	Hookahs	Pipe tobacco	Heated tobacco products	Nicotine pouches	Other oral nicotine products ^{**}
Among all students regardless of tobacco use status^{††}										
Flavored tobacco product use	8.7 (7.7–9.9)	6.8 (6.1–7.7)	0.6 (0.5–0.9)	1.0 (0.8–1.3)	1.0 (0.7–1.5)	0.9 (0.7–1.2)	0.4 (0.3–0.5)	0.8 (0.6–1.1)	1.3 (0.9–1.8)	1.0 (0.8–1.2)
Among current tobacco product users^{§§}										
Estimated weighted number of flavored tobacco product users ^{¶¶}	2,430,000	1,900,000	170,000	270,000	270,000	240,000	100,000	210,000	340,000	270,000
Flavored tobacco product use among current tobacco users	86.9 (83.5–89.6)	89.4 (86.2–91.9)	40.4 (32.7–48.6)	64.8 (53.5–75.0)	83.2 (68.8–91.7)	84.1 (72.1–91.5)	73.9 (62.3–82.9)	82.1 (71.4–89.4)	86.6 (77.3–92.5)	87.0 (79.7–92.0)
School Level										
Middle School	83.7 (77.1–88.6)	87.1 (79.9–92.0)	36.3 (25.2–49.1)	53.1 (40.3–65.4)	81.3 (69.9–89.0)	83.4 (68.5–92.1)	— ^{***}	78.0 (57.3–90.4)	78.9 (57.9–91.0)	83.8 (65.0–93.5)
High School	88.3 (83.9–91.5)	90.3 (86.6–93.1)	42.3 (32.6–52.7)	70.7 (54.8–82.9)	83.7 (65.4–93.4)	85.1 (65.5–94.5)	67.9 (48.5–82.6)	84.9 (69.7–93.3)	92.7 (83.3–97.0)	88.9 (80.0–94.1)
Sex										
Female	89.8 (85.0–93.2)	90.8 (85.8–94.2)	35.8 (22.0–52.5)	51.9 (35.1–68.3)	84.9 (62.4–95.0)	79.9 (60.7–91.1)	66.3 (45.9–82.0)	77.1 (57.5–89.3)	90.2 (73.7–96.8)	94.7 (83.4–98.4)
Male	83.8 (78.7–87.8)	87.6 (82.4–91.5)	43.6 (30.3–58.0)	74.4 (62.8–83.3)	82.4 (65.0–92.2)	90.1 (78.3–95.8)	80.1 (64.0–90.2)	85.8 (69.8–94.0)	86.5 (73.9–93.6)	80.3 (69.6–88.0)
Race and ethnicity										
White, non-Hispanic	86.6 (80.9–90.7)	90.3 (85.7–93.5)	38.1 (25.8–52.1)	54.7 (38.0–70.4)	80.1 (59.7–91.6)	66.9 (45.3–83.1)	—	—	93.4 (83.5–97.5)	91.4 (74.9–97.4)
Black, non-Hispanic	90.0 (82.3–94.5)	90.0 (74.2–96.6)	—	—	—	—	—	—	—	—
Hispanic	84.1 (78.8–88.3)	86.3 (81.1–90.2)	31.5 (20.9–44.6)	78.5 (64.4–88.0)	83.0 (64.9–92.8)	86.3 (73.0–93.6)	80.7 (60.2–92.1)	76.2 (52.8–90.2)	77.9 (59.3–89.5)	88.3 (74.6–95.1)
Asian, non-Hispanic	97.8 (89.2–99.6)	—	—	—	—	—	—	—	—	—
AI/AN, non-Hispanic	83.2 (69.4–91.6)	85.2 (59.1–95.8)	—	—	—	—	—	—	—	—
Multiracial, non-Hispanic	92.4 (83.2–96.7)	91.5 (83.5–95.8)	—	—	—	—	—	—	—	—

Abbreviation: AI/AN= American Indian or Alaska Native.

* For each respective tobacco product excluding cigarettes, current (past 30-day) users were asked, "In the past 30 days when you used [tobacco product], what flavors did you use? (Select one or more)?" For each respective product, flavored tobacco product use was defined as use of any flavor except for the exclusive use of "tobacco flavored" or "unflavored." Those reporting use of "tobacco-flavored" or "unflavored" products in addition to other flavor(s) were defined as flavored tobacco product users.

† Reported among respective current (past 30-day) users for each product. Past 30-day use of a tobacco product was determined by asking, "During the past 30 days, on how many days did you use [tobacco product]?"

§ Any tobacco product use is defined as current use of one or more of the following tobacco products on ≥ 1 day during the past 30 days: e-cigarettes, cigars, cigarettes, smokeless tobacco (composite), hookahs, nicotine pouches, heated tobacco products, pipe tobacco, bidis (small brown cigarettes wrapped in a leaf), or other oral nicotine products.

¶ Flavored cigarette use refers to menthol cigarette use. Current cigarette smokers were categorized as flavored (menthol) cigarette smokers: if they responded "yes" to the question, "Menthol cigarettes are cigarettes that taste like mint. During the past 30 days, were the cigarettes that you usually smoked menthol?"; or if they indicated "Kool" or "Newport" as a brand they usually smoked in the past 30 days. Usual brand was determined based on responses to two questions: 1) "During the past 30 days, what brands of cigarettes did you smoke? (Select one or more)" and 2) "During the past 30 days, what brand of cigarettes did you usually smoke? (Choose only one answer)." If "Kool" or "Newport" was the only brand selected for the first question, or if multiple brands were selected in the first question and "Kool" or "Newport" was selected for the second question, "Kool" or "Newport" was considered the respondent's usual brand. Those who selected "some other brand(s) not listed here" could provide a write-in response; write-in responses corresponding to an original response option were recoded. Those who reported "No" or "Not sure" to the menthol question or those who did not report "Newport" or "Kool" as their usual brand were categorized as nonmenthol smokers; all other past 30-day cigarette smokers who did not provide any valid responses were assigned as missing menthol smoking status.

** Cigars were defined as cigars, cigarillos, or little cigars. Smokeless tobacco (composite) was defined as chewing tobacco, snuff, dip, or snus. Other oral nicotine products were defined as lozenges, discs, tablets, gums, dissolvable tobacco products, and other products. In 2023, dissolvable tobacco products were reclassified from smokeless tobacco (composite) to other oral nicotine products.

†† Calculated among all respondents regardless of tobacco product use status. Because of missing data, denominators for each tobacco product might be different: any tobacco (n = 21,872), e-cigarettes (n = 21,772), cigarettes (n = 21,491), cigars (n = 21,423), smokeless tobacco (composite) (n = 21,365), hookahs (n = 21,175), pipe tobacco (n = 21,129), heated tobacco products (n = 21,039), nicotine pouches (n = 21,128), and other oral nicotine products (n = 21,182).

§§ Calculated among current users of any tobacco (n = 2,071), e-cigarettes (n = 1,565), cigarettes (n = 367), cigars (n = 334), smokeless tobacco (composite) (n = 244), hookahs (n = 223), pipe tobacco (n = 133), heated tobacco products (n = 199), nicotine pouches (n = 272), and other oral nicotine products (n=274).

¶¶ Estimated weighted total number of flavored tobacco product users was rounded down to the nearest 10,000 persons. Estimates among non-Hispanic Native Hawaiian or other Pacific Islander students were statistically unreliable for all measures and are not presented in this table.

*** Data were statistically unreliable because of unweighted denominator <50 or a relative standard error >30%.