

SUPPLEMENTARY TABLE 3. Flavor types used (except exclusive use of tobacco-flavored or unflavored), use of any flavors that included the word “ice” or “iced”, and use of flavors with a name that did not describe a specific flavor, by tobacco product among middle and high school students— National Youth Tobacco Survey, United States, 2023

Flavor Types*	Tobacco product, % (95% CI)								
	E-cigarettes	Cigarettes [†]	Cigars [§]	Smokeless tobacco (composite) [¶]	Hookahs	Heated tobacco products	Nicotine pouches	Other oral nicotine products**	Pipe tobacco
Among middle and high school students who reported current use of respective flavored tobacco product^{††}									
Fruit	67.4 (63.5–71.0)	NA	43.8 (34.2–53.8)	23.5 (13.7–37.4)	51.9 (39.8–63.9)	33.7 (19.0–52.4)	20.5 (12.3–32.2)	47.1 (38.7–55.7)	18.3 (10.1–30.9)
Candy, desserts, or other sweets	37.2 (31.0–43.9)	NA	18.5 (13.0–25.8)	— ^{§§}	28.5 (15.6–46.2)	—	—	27.3 (17.9–39.4)	—
Mint	29.5 (23.6–36.2)	NA	13.7 (7.7–23.3)	39.7 (23.8–58.2)	30.8 (18.0–47.3)	25.7 (13.4–43.7)	50.8 (35.0–66.5)	38.8 (29.3–49.4)	—
Menthol	21.4 (16.5–27.3)	40.4 (32.7–48.6)	16.5 (9.6–26.8)	17.4 (9.8–28.9)	—	15.5 (9.4–24.4)	23.9 (15.9–34.4)	19.3 (13.4–26.9)	—
Non-alcoholic drinks ^{¶¶}	12.0 (6.8–20.2)	NA	13.5 (7.5–23.2)	—	—	8.4 (4.6–14.9)	—	16.8 (10.0–26.9)	—
Alcoholic drinks ^{¶¶}	9.0 (5.9–13.4)	NA	22.1 (13.9–33.4)	—	—	14.2 (7.6–25.0)	—	18.7 (12.0–27.9)	—
Clove or spice ^{¶¶}	6.3 (4.6–8.7)	NA	17.7 (12.8–24.0)	20.9 (12.3–33.3)	—	—	—	12.6 (7.6–20.1)	36.2 (19.0–57.9)
Chocolate	5.2 (3.6–7.5)	NA	18.1 (10.1–30.5)	18.7 (11.8–28.4)	—	14.3 (7.6–25.1)	—	12.0 (7.4–18.8)	—
Some other flavor	6.4 (4.5–9.0)	NA	14.3 (8.5–23.0)	23.6 (12.7–39.7)	—	15.6 (8.3–27.4)	—	—	—
Among middle and high school students who reported current use of respective tobacco product									
Use of any flavor that included the word “ice” or “iced” (such as blueberry ice or strawberry ice) ***	57.9 (52.5–63.1)	NA	22.6 (15.2–32.2)	NA	NA	NA	25.9 (15.4–40.2)	NA	NA
Use of any concept flavors with a name that did not describe a specific flavor (such as “solar,” “purple,” “jazz,” “island bash,” “fusion”) ***	16.1 (13.5–19.0)	NA	13.4 (9.1–19.3)	NA	NA	NA	—	NA	NA

* 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)?" Those who selected "some other flavor not listed here" could provide a write-in response; write-in responses corresponding to an original response option were recoded.

† Flavored cigarette use refers to menthol cigarettes. Thus, other flavor types for cigarettes were not applicable. 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. Flavor types were assessed separately among flavored smokeless tobacco products (chewing tobacco, snuff, dip, or snus). Flavored types were then recoded as a composite among users of any current smokeless tobacco product combined.

** 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.

†† 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)?"

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

¶¶ These flavor options provided examples: "Alcoholic drinks (such as wine, margarita, or other cocktails)"; "Non-Alcoholic drinks (such as coffee, soda, lemonade, or other beverage)"; "Spice (such as cinnamon, vanilla, or clove)."

*** Current users were asked, "Did any of the flavors you used in the past 30 days have names or descriptions that included the word 'ice' or 'iced' (for example, blueberry ice or strawberry ice)?" Those who reported using only 'unflavored' e-cigarettes (n=60)/nicotine pouches (n=11) did not receive the question.

††† Current users were asked, "Did any of the flavors that you used in the past 30 days have a name that did not describe a specific flavor, such as 'solar,' 'purple,' 'jazz,' 'island bash,' 'fusion' or some other word or phrase?" Those who reported using only "unflavored" e-cigarettes (n=60)/nicotine pouches (n=11) did not receive the question.