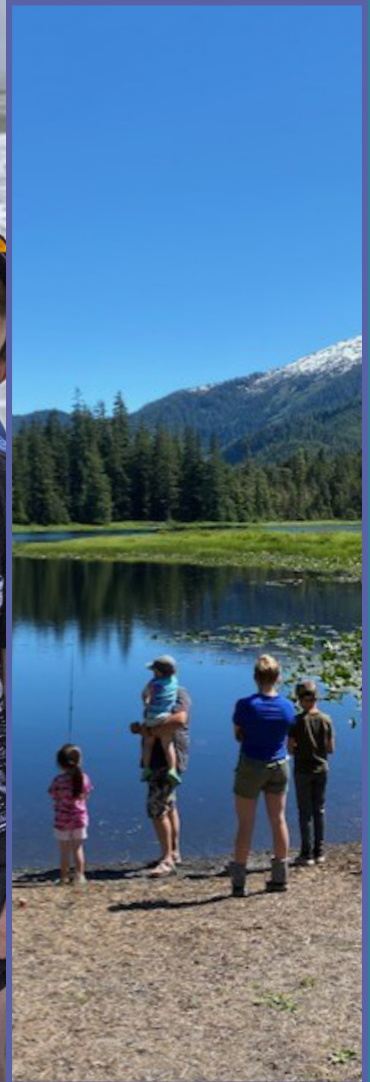


ALASKA TOBACCO PREVENTION AND CONTROL PROGRAM



TOBACCO FACTS 2022 UPDATE



Alaska Tobacco Facts

2022 Update

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I. Executive Summary

Alaska Tobacco Facts is an annual update of key indicators about tobacco prevention and control from state data sources. The report summarizes Alaska's most currently available data on tobacco and nicotine use among adults, youth, and pregnant women. The results can be used to educate Alaskans about the toll that tobacco continues to take on the health and well-being of our citizens.

The following are highlights from *Alaska Tobacco Facts: 2022 Update*. This report includes data collected from Alaska's adult surveys through 2020, and from youth surveys through 2019. These are the most recently available data.

Adults

- In 2020, 26% of adults statewide currently used some form of tobacco or nicotine. Between 2014 and 2020, the percentage of adults who currently use any tobacco or nicotine product remained stable.
- This translates to an estimated more than 142,800 adults in Alaska who are at risk for poor health outcomes due to tobacco or nicotine products.
- 19% of Alaska adults smoked cigarettes in 2020. Cigarette smoking prevalence among adults has declined significantly in the long term, from 27% in 1997. Smoking among adults has also declined in the past 10 years alone, from 23% in 2011. Adult smoking prevalence has also declined in the United States overall.
- Cigarette smoking prevalence is relatively greater among some populations, including Alaska Native adults, people ages 30-54, people experiencing frequent mental distress, people of lower socioeconomic status, people with less educational attainment, people unable to work or unemployed, and residents of the Northern and the Southwest regions of the state.
- A majority of adults who smoke cigarettes want to quit. Among adults who currently smoked in 2020, 57% had tried to quit in the past year and 72% of those who had a health care visit in the past 12 months were advised to quit by a health care provider. However, quitting successfully is difficult: among adults who were smoking in the past year, just 8% had quit for at least 3 months.
- 7% of Alaska adults currently used smokeless tobacco in 2020, which is higher than the comparable U.S. national estimate (2%). Adult smokeless tobacco use prevalence has not changed significantly in Alaska during the past 10 years.
- Smokeless tobacco use is relatively greater among Alaska Native adults, men, people ages 30-54, current and former smokers, people of lower socioeconomic status, and residents of Southwest Alaska.
- 5% of Alaska adults currently used electronic vapor products (e-cigarettes or "vapes") in 2020, which is similar to the U.S. national estimate. Among Alaska adults, this percentage has not changed significantly since consistent measurement began in 2014.
- Electronic vapor product use is relatively more common among adults ages 18-29, adults who smoke cigarettes, adults without a college degree, adults who are employed or unemployed (as compared to those not in the workforce), and among bisexual women.

Pregnant Women

- 10% of Alaska women who delivered a child reported smoking cigarettes during their last 3 months of pregnancy in 2020. The percentage of women who smoked during pregnancy has declined significantly from 14% in 2011.
- About half of women who smoked cigarettes before pregnancy quit smoking during pregnancy in 2020: 20% smoked before pregnancy, and 10% during the last 3 months of pregnancy.
- Some women appear to take up cigarette smoking again after delivery: 13% smoke after delivery vs. 10% during pregnancy. However, smoking after delivery does not immediately return to the same level as pre-pregnancy smoking.

Youth

- In 2019, 35% of high school students in Alaska used some form of tobacco or nicotine. This percentage has not changed significantly since 2015.
- This translates to an estimated more than 13,300 students in Alaska who are at risk of poor health outcomes due to tobacco or nicotine products.
- 26% of Alaska high school students currently used electronic vapor products (e-cigarettes or “vapes”) in 2019. Electronic vapor product use has increased significantly from 18% in 2015 to 26% in 2019. Similar increases have been seen in the U.S.
- 46% of Alaska high school students had ever tried using an electronic vapor product in 2019. This was a significant increase from 36% in 2015.
- 8% of Alaska high school students currently smoked cigarettes in 2019. Cigarette smoking has declined significantly among youth in the long term, from 37% in 1995, and during the past 10 years, from 16% in 2009.
- Current cigarette smoking prevalence is relatively higher among male students, Alaska Native youth, and among older (11th and 12th grade) high school students.
- 28% of Alaska high school students had ever tried smoking cigarettes in 2019; this is significantly fewer than in comparison to 72% in 1995 and 48% in 2009.
- 11% of Alaska high school students currently used smokeless tobacco in 2019. The percentage of students using smokeless tobacco has not changed significantly since 2013. Among all U.S. students, the percentage of students using smokeless tobacco has declined significantly during the same years, to 4% in 2019.
- Current smokeless tobacco use prevalence is relatively greater among Alaska Native students than among non-Native students (24% and 4%, respectively).
- 2% of Alaska high school students had smoked cigarettes on school property in the past month, and 7% had used smokeless tobacco on school property in the past month, in 2019.

II. Introduction

A. Purpose

Tobacco use remains a leading cause of preventable death and illness in Alaska. The Centers for Disease Control and Prevention (CDC) has identified reducing tobacco use as one of the most important “winnable battles” in public health. A winnable battle is a priority with large impacts on health and known, effective strategies to address the priority.¹

This report is intended as a resource for people working to support the health of Alaskans by reducing harms from tobacco use initiation, nicotine dependence, and secondhand smoke exposure. First, it provides information that can be used to educate about the need for continued efforts to reduce these harms. Second, it can help people who are planning programs, by providing a strategic view of tobacco use trends and use in different populations.

Alaska Tobacco Facts provides a summary of Alaska’s most current tobacco use prevalence estimates among three key populations: adults, pregnant women, and youth. Within these populations we show tobacco use estimates among different groups of people, including by demographic factors such as age, gender, race/ethnicity, and sexual orientation; social determinants of health such as education, socioeconomic status, employment status; and by geographic region in Alaska. This report also describes recent trends (up to 10 years for some measures) in different types of tobacco use or related indicators.

Changes to Alaska Tobacco Facts: 2022 Update. In contrast to versions of *Tobacco Facts* published prior to 2021, this report does not include information about exposure to secondhand smoke and some other previously reported adult measures. These measures were previously collected in a supplemental survey fielded using the framework of the Alaska Behavioral Risk Factor Surveillance System (BRFSS). Beginning in 2021, the state began using a new annual online survey to collect many of these measures and will use other reports to share those findings. Additionally, beginning with this year’s report the BRFSS data definition of “Alaska Native race” includes anyone self-identifying as Alaska Native or American Indian, even if they also identify with another race. Previous reports used single race definitions; therefore, some numbers from prior reports that used “single race” definitions have been updated.

Related reports. Other data reports that include information of potential interest to readers are available on the Alaska Tobacco Prevention and Control website:

<https://dhss.alaska.gov/dph/Chronic/Pages/Tobacco/publications.aspx#facts>

- *Regional Profiles.* Estimates of tobacco use, attitudes, and policy-related information for each of Alaska’s seven public health regions. These reports are organized by programmatic goals: prevention, quitting, and secondhand smoke.
- *Tobacco factsheets.* A series of data briefs that provide detail and discussion about specific topics. The most recent addition to this series is *E-cigarette use, suspension, and academic outcomes among Alaska high school students (2021)*.

¹ U.S. Centers for Disease Control and Prevention (CDC) *Winnable Battles*
<http://www.cdc.gov/winnablebattles/>

B. *Recent Major Events*

The following are a selection of recent important dates and events relevant to tobacco industry actions, health programs, policy implementation, or other effects on health in Alaska. These events occurred within the time period of this report, and they may be important to consider when thinking about trends reported here.

During the past 10 years:

- **2015.** JUUL developed a new electronic cigarette device using nicotine salts, which reduced throat irritation when users inhaled high levels of nicotine. This in turn makes it easier for new users to start the product, increasing the risk of youth initiation/addiction. (e-cigarettes had been available in retail stores since 2007).
- **2018.** Alaska passed a *Smokefree Workplace Law* (AS 18.35.301). Beginning October 2018, smoking and vaping are not allowed in Alaska’s enclosed public places and workplaces (including private offices, and hotel and motel rooms).
- **2019.** Federal *Food, Drug, and Cosmetic Act* signed in December 2019, raising the federal minimum age for sale of tobacco products (including e-cigarettes and electronic vapor products) to 21 years. This policy change is sometimes called “T-21”. However, no resources or support were provided to states to enforce it; Alaska maintains enforcement of the current state law, which is age 19 for purchase of tobacco and nicotine products.
- **2019.** Alaska updated state youth access law to include e-cigarettes and products containing nicotine (AS 11.76.109).
- **2020.** The global COVID-19 pandemic began in 2020, with various emergency “shutdown” orders implemented in March 2020. Alaskans were affected throughout the year. This report includes adult data from 2020, but no youth data have been collected since 2019 (prior to the pandemic).

C. *Unique Alaska Factors*

This report compares Alaska adult and youth tobacco use trends and current prevalence with similar data from the U.S. for some indicators (like cigarette smoking, smokeless tobacco use). In addition to major events that may have been Alaska-specific (see prior subsection), when comparing Alaska to the U.S. there are some factors unique to the state that may be important to consider.

- **Alaska’s higher legal age for tobacco purchase prior to recent federal policy change.** Most state policies and U.S. federal policies prior to 2019 had established the minimum age for tobacco purchase as 18.² Since 1988, Alaska’s minimum age to purchase tobacco products has been 19; in 2018, state law was amended to also

² A few states raised their minimum age for tobacco/nicotine purchase to 21 prior to federal policy change in 2019, including Hawaii in 2015, California in 2016, Oregon in 2018. Before states moved to raise the age to 21, Alaska, Alabama, and Utah were the only states with a minimum tobacco sales age of 19 and other states had a minimum age of 18.

include e-cigarettes.³ Youth data included in this report were collected through 2019, and therefore Alaska’s laws were relatively stricter than the U.S. during this period.

- **Iqmik (“ick-mick”) or blackbull, a unique Alaska smokeless tobacco variant.** Iqmik has been used among Alaska Native people in the Southwest region of the state since at least the 19th century. Iqmik

The ash increases the alkaline level of the tobacco, resulting in a more rapid absorption of nicotine. This is thought to increase risk for addiction, making it more difficult to quit.⁴ Iqmik, as well as commercial products, is important to consider when examining data on smokeless tobacco use patterns, especially within the Southwest region and among Alaska Native people.

D. **Tobacco Use Inequities**

This report examines tobacco use indicators for different demographic groups, including by age, gender, race and ethnicity, socioeconomic status, sexual orientation, and geographic region. Observed differences in tobacco use or harms between population groups, sometimes called “tobacco-related inequities”, are the result of complex factors. Underlying causes of these differences can be social determinants of health, tobacco industry influence, a lack of comprehensive tobacco control policies reaching specific communities, and a changing U.S. population.⁵

To improve understanding about how behavioral health factors can influence tobacco use and make quitting harder, this 2022 *Tobacco Facts* report has added a new characteristic with which to sort tobacco indicators: frequent mental distress. BRFSS asks adults about their mental health. “Frequent mental distress” is defined as self-reported 14 or more mentally unhealthy days in the past 30 days. Having frequent mental distress has been previously associated with smoking,⁶ and the prevalence of frequent mental distress varies by race, ethnicity, gender, and socioeconomic status (SES).⁷

Readers should keep in mind that external pressures can influence tobacco use and may need to be accounted for when designing interventions and evaluating their effectiveness. For example, research demonstrates that stress and depression are associated with

³ Alaska Statutes 2020: AS 11.76.105 Possession of tobacco, electronic smoking products, or products containing nicotine by a minor.

⁴ Bryan A. Hearn, PhD, Caroline C. Renner, MPH, Yan S. Ding, PhD, Christina Vaughan-Watson, MPH, Stephen B. Stanfill, MS, Liqin Zhang, MS, Gregory M. Polzin, PhD, David L. Ashley, PhD, Clifford H. Watson, PhD, Chemical Analysis of Alaskan Iq’mik Smokeless Tobacco, *Nicotine & Tobacco Research*, Volume 15, Issue 7, July 2013, Pages 1283–1288. <https://academic.oup.com/ntr/article/15/7/1283/1377797>

⁵ Centers for Disease Control and Prevention, *Best Practices User Guide: Health Equity in Tobacco Prevention and Control*. Atlanta: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, 2015. <https://www.cdc.gov/tobacco/stateandcommunity/guides/pdfs/bp-health-equity.pdf>

⁶ Strine TW, Balluz L, Chapman DP, Moriarty DG, Owens M, Mokdad AH. Risk behaviors and healthcare coverage among adults by frequent mental distress status, 2001. *Am J Prev Med*. 2004 Apr;26(3):213-6. doi: 10.1016/j.amepre.2003.11.002. PMID: 15026100.

⁷ *Self-Reported Frequent Mental Distress Among Adults --- United States, 1993--2001*. (n.d.). Retrieved September 4, 2022, from <https://www.cdc.gov/mmwr/preview/mmwrhtml/mm5341a1.htm>

prenatal and postnatal tobacco use.⁸ The experience of stress and depression can be related to other factors such as social determinants of health: poverty, housing, social support, discrimination, quality and safety of schools, health care access, and transportation.⁵ In other words, greater prevalence of tobacco use or other measures indicates that it is more difficult for some groups of people to avoid tobacco and quit successfully, rather than that they have less knowledge about dangers of tobacco use or motivation to quit. For example, this report shows that Alaska adults with lower socioeconomic status (SES) are more likely to have tried to quit smoking in the past year than adults with higher SES (59% vs. 55%, see Figure 29), yet they are less likely to maintain quitting in the long term (43% “quit ratio” or long-term quitting among low SES adults vs. 74% among higher SES adults, see Figure 25).

Therefore, data in this report that show greater tobacco use in some populations should be viewed not only with an eye toward more effective tobacco control interventions, but also with interventions that address and mitigate these foundational influences so that all people have equitable opportunities to achieve optimal health.

⁸ Allen A, Jung AM, Lemieux AM, Alezander AC, Allen SS, Ward KD, al’Absi M. Stressful life events are associated with perinatal cigarette smoking. *Preventive Medicine*, Volume 118,2019,Pages 264-271,ISSN 0091-7435, <https://doi.org/10.1016/j.ypmed.2018.11.012>. <https://www.sciencedirect.com/science/article/abs/pii/S0091743518303578?via%3Dihub>

III. Methods

A. Data sources

This report includes information from three primary Alaska public health data sources. These sources are summarized in Table 1, and more detailed information is included in the Appendix.

Table 1: Summary of key data sources used for this report

Data Source (Abbreviation)	Description
Alaska Behavioral Risk Factor Surveillance System (BRFSS)	<p>BRFSS is an anonymous telephone survey of adults ages 18 and older, sponsored by the Centers for Disease Control and Prevention (CDC) and implemented in all states. It is a primary source of information about a variety of adult health and related behaviors. Alaska has added multiple questions about tobacco use to the state’s survey.</p> <p>When examining differences among subgroups, including by region, sometimes multiple years of BRFSS data are combined so that there are enough data to report.</p>
Alaska Pregnancy Risk Assessment Monitoring System (PRAMS)	<p>PRAMS is an ongoing survey of mothers of newborns that is sponsored by the CDC and the sites that implement the program. PRAMS surveys a sample of women who have delivered a live newborn (about 1 in every 6 live births in Alaska). This survey asks about maternal behaviors and experiences, to plan and improve perinatal health programs. Multiple questions about tobacco have been included on the survey for many years.</p> <p>Sampled women are first mailed the survey approximately 2-6 months after delivery of their baby; if they do not respond after several mailings, women are contacted and interviewed by telephone.</p>
Alaska Youth Risk Behavior Survey (YRBS)	<p>YRBS data are collected from students in grades 9-12 using anonymous and voluntary school-based questionnaires. The survey is conducted in the spring of odd-numbered years and participation requires parental consent. The YRBS includes questions about tobacco use and related factors.</p> <p>Statewide estimates in this report are from a sample of traditional high schools across the state; data from alternative schools and correctional schools are not included in this report.</p>

B. Measures

This report describes tobacco use indicators among various groups of people. Below is a summary of how groups are defined per the surveys featured in this report. Additional detail about measures is available in Appendix A.

Current tobacco or nicotine use

- BRFSS: Current cigarette smoking is defined as having ever smoked at least 100 cigarettes (5 packs) and currently smoking “every day” or “some days”. Current smokeless tobacco use is defined only based on now using “every day” or “some days”. Electronic vapor product use was defined as having used on one or more of the past 30 days in 2014-2015. Current definition, since 2016, is using “every day” or “some days.”.
- PRAMS: Use prior to pregnancy, during the last 3 months of pregnancy, and after pregnancy are not more specifically defined but simply characterized as “yes” or “no”. Smokeless tobacco use during pregnancy is defined as use at any time (not specified) during the pregnancy.
- YRBS: Current use of all tobacco and nicotine products is defined as use on one or more of the past 30 days.

Race and Ethnicity

- BRFSS: Race and ethnicity are combined for reporting. Alaska Native race is defined as self-identification with American Indian or Alaska Native (AIAN) race, either alone or in combination with another race or Hispanic ethnicity. The comparison group “non-Native” includes adults who reported any other race group or Hispanic (and not AIAN). In the expanded race and ethnicity reporting, those in race categories of African American, Asian, Pacific Islander, and White self-identified as only that race group and do not include respondents of Hispanic ethnicity. Those who report being Hispanic or Latino are listed as “Hispanic” unless they also self-identified as AIAN.
- PRAMS: Maternal race is self-reported on a child’s birth certificate. Alaska Native race is based on any mention of American Indian or Alaska Native race. For this report, only Alaska Native and non-Native maternal race are described.
- YRBS: Race and ethnicity are combined for reporting. Alaska Native race is defined based on any mention of AIAN race (regardless of Hispanic ethnicity). White students are identified based on only reporting White race and non-Hispanic ethnicity. Hispanic students are those who indicate Hispanic ethnicity regardless of race (including if race is missing). For this report, insufficient numbers of students were available to report by any other meaningful race groups.

Sexual Orientation

- BRFSS: Adults self-report whether they are gay (men), lesbian (women), bisexual, or straight. Sexual orientation comparisons are stratified by sex, so that gay men and bisexual men are compared to straight men, and lesbian women and bisexual women to straight women.
- PRAMS: Not asked on this survey.
- YRBS: Not asked on this survey.

Frequent Mental Distress. See discussion in Section II.D.

- BRFSS: Adults self-report the number of days in the past 30 when their mental health was 'not good.' In response to the question, "Now, thinking about your mental health, which includes stress, depression, and problems with emotions, for how many days during the past 30 days was your mental health not good?," a person who reported 14 or more days was identified as having frequent mental distress.
- PRAMS: Not asked on this survey.
- YRBS: Not asked on this survey.

Social Determinants of Health

- BRFSS: Highest level of educational attainment, current employment status, and socioeconomic status (SES). SES is characterized as "low" or "high". "Low SES" is defined as household income at 185% or less of the Alaska Poverty Level Guideline (which is based on total annual household income and total number of household members).
- PRAMS: Highest level of educational attainment and enrollment in Denali KidCare (Medicaid).
- YRBS: No social determinants of health measures are explored for youth.

Region

- BRFSS: 7 Public Health Regions, based on borough of residence (see map in Appendix A, BRFSS section). These regions are similar to the Alaska Department of Labor and Workforce Development's 6 Economic Regions, except that Anchorage and Mat-Su are separated.
- PRAMS: 10 Behavioral Health Regions, based on borough of residence (see map in Appendix A, PRAMS section).
- YRBS: Only state data are reported.

C. *Analytic approaches*

Survey estimates. A great deal of this report relies on data collected through surveys. Data from surveys are referred to as “estimates” because we have responses from only a sample of the population and not the whole population. We match respondent characteristics such as age, gender, and race to known characteristics of the state population, and statistically adjust the estimates to represent the true population. Sometimes this is called “weighting” the data. For example, more women than men usually participate in surveys, so more survey respondents are women although the actual populations of women and men are about equal in size. Since women often report different information on surveys than men, statistical processes are used to create estimates that balance the answers from women and men equally when reporting on the whole population.

Statistically significant differences. Formal statistical tests were done for all subgroup comparisons in this report, and “differences” are only mentioned in the text if they were statistically significant. Statistical significance is a determination that a relationship (difference) between two or more groups or observations is a true difference, caused by something other than chance. We used a p-value of $<.05$ as our threshold for “significance”, which is a commonly used level for scientific reports. When shown, the p-value reported with significance tests is the probability of observing results as extreme as those in the data due to chance alone. For example, a p-value of $.05$ indicates there is a 5% chance that the “difference” observed between groups may be due only to chance. The p-value is interpreted as a “yes/no” threshold for whether significance is achieved; the magnitude of the p-value is not typically interpreted.

Whether differences are statistically significant depends both on the measured value and the precision of that measurement. Sometimes differences may look large, but the estimates may have wide confidence intervals (described below) and so we cannot be sure that the values are truly different, beyond just chance.

Trends. Regression tests were used to determine whether tobacco use prevalence indicators were changing over time. We used the 95% confidence level, with a p-value of $<.05$ to determine whether trends were significantly increasing or decreasing (different from “0” or a “flat” trend). Although for many data sources we have had data available for longer periods of time, we conducted trend tests only to identify significant changes during recent years, up to the past 10 years. As readers can see from representative data points included from earlier years, there have been large reductions in many tobacco use indicators in the long term. Focusing on the most recent years helps to isolate current trends, which are most meaningful for program planning.

Confidence intervals. Our report uses 95% confidence intervals, especially when describing results from survey data. Confidence intervals show a range that is likely to contain the true value for the population; we can be 95% sure (95 out of 100 times) that the range of the interval contains the “true value” of the indicator being measured. Confidence intervals also help to compare whether results from one group are significantly different from another group: when confidence intervals for two estimates in the same data system do not overlap,

those two estimates are “significantly” different from one another – meaning we can be reasonably sure there is a true difference.⁹ In this report, confidence intervals are shown visually in different ways: as shaded areas around lines in trend graphs, as “whiskers” around the estimates in bar graphs, and as a numeric range in tables. Although they look different, they mean the same thing.

Larger samples typically have smaller, more precise confidence intervals. Figures in this report that show trends in tobacco product use for the state and region show confidence intervals only for state-level data, to make the figures easier to view; regional confidence intervals will always be wider or larger. The confidence intervals for regional data are included in the technical appendix tables for this report. Whenever regional estimates are statistically different from the state based on formal statistical comparisons, that is noted in the text describing the data or figure. Although differences between groups may look large, they are not statistically significant unless noted in the text – in other words, they may be just chance differences.

Suppression of small numbers. To ensure confidentiality and data quality, estimates from surveys with small numbers are suppressed based on guidelines from the State of Alaska. For BRFSS, a minimum denominator of 50 unweighted respondents is required for reporting; for YRBS, a minimum of 100 is required; for PRAMS a minimum of 30 is required. All surveys also require a minimum numerator of 5 to report estimates. Measures that do not meet these minimum requirements are not included in this report. In some cases, we have combined multiple years of data to provide enough respondents to report prevalence estimates within small groups. Estimates with sufficient numbers within the denominator but which are still considered statistically unstable may also be flagged or suppressed.

Rounded estimates. Survey data shown in figures or tables within the main body of this report are rounded to whole numbers. This is for two reasons: first, because this more simply conveys sufficient information for most users of this report; second, because survey estimates for smaller numbers of people in subgroups often have wide confidence intervals, rounded estimates are one way of showing that such estimates are not highly precise. For those who want the information, tables of estimates included in the Appendix are reported to one decimal place, with confidence intervals.

Numbers of tobacco users. This report provides estimates of the number of adults, pregnant women, and youth who are at risk from tobacco use. This is a direct estimate, applying the most current prevalence of use to total population numbers, and rounding to the nearest hundred. These estimates are intended to give a sense of the large numbers of people who are affected at the current time. Notably, because populations typically grow over time, total numbers of people who are affected can increase even if the prevalence of tobacco use stays the same or declines.

⁹ Formal tests are more precise than confidence interval comparisons. We conducted formal statistical tests for this report, so sometimes differences are described as significant even when confidence intervals overlap to some degree.

D. *Limitations*

Local area data. This report includes regional estimates for BRFSS and PRAMS data. Notably, regional analyses of these datasets use different regional definitions: BRFSS data are reported by 7 Public Health Regions, and PRAMS data are reported by 10 Behavioral Health Regions. Maps of these different regions are included in Appendix A.

Regional YRBS data are not reported because scientific samples were not done systematically in all regions such that they could be compared with one another.

Stakeholders working in tobacco control within local communities would likely be interested in more specific data about borough or census areas, cities, and villages. Unfortunately, most surveys do not have enough respondents to report local-level results; however, the TPC program provides a separate *Regional Profiles* series of reports that integrates other data sources to provide as much relevant local area information as possible.

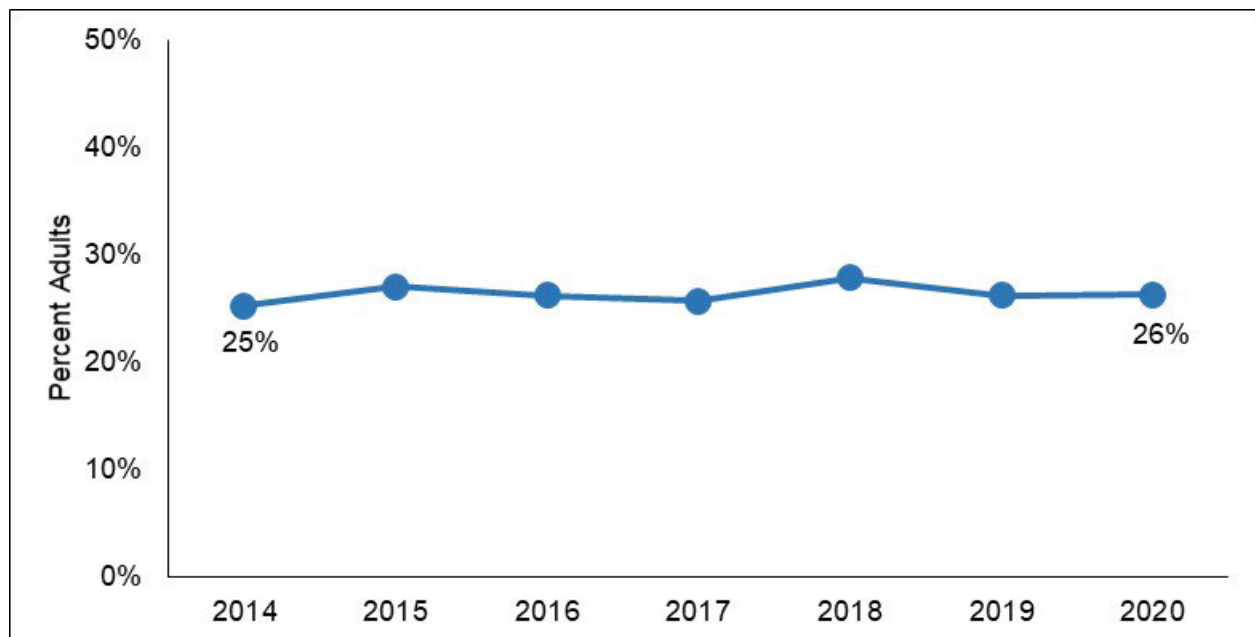
Reporting biases. This report provides data from surveys. In these surveys, people are asked about their tobacco use behaviors; none of these surveys uses physical measures or other means to verify whether people have used tobacco or not. If people perceive societal disapproval, they may be less likely to accurately report their tobacco use. Sometimes this is called “social desirability bias”. Alaska’s surveys attempt to reduce these biases by making sure that participants know their information is anonymous, that accurate information is important for providing results that help the people of Alaska, and by using questions that are phrased neutrally and do not convey judgement about behaviors. However, it is possible that as tobacco use has become less common in society, people may feel uncomfortable reporting truthfully about their tobacco-related behaviors and this could affect the quality of our reporting.

IV. Adult Tobacco Use

A. *Healthy Alaskans 2030*

Reducing the use of any tobacco or nicotine product among adults is an important priority in the State of Alaska. *Healthy Alaskans 2030*¹⁰ includes the following indicator that is monitored to assess progress: *Reduce the percentage of adults who currently smoke cigarettes, use electronic vapor products, or use smokeless tobacco.*

Figure 1. Percentage of Adults Who Currently Use Any Tobacco by Year, Alaska, 2014-2020

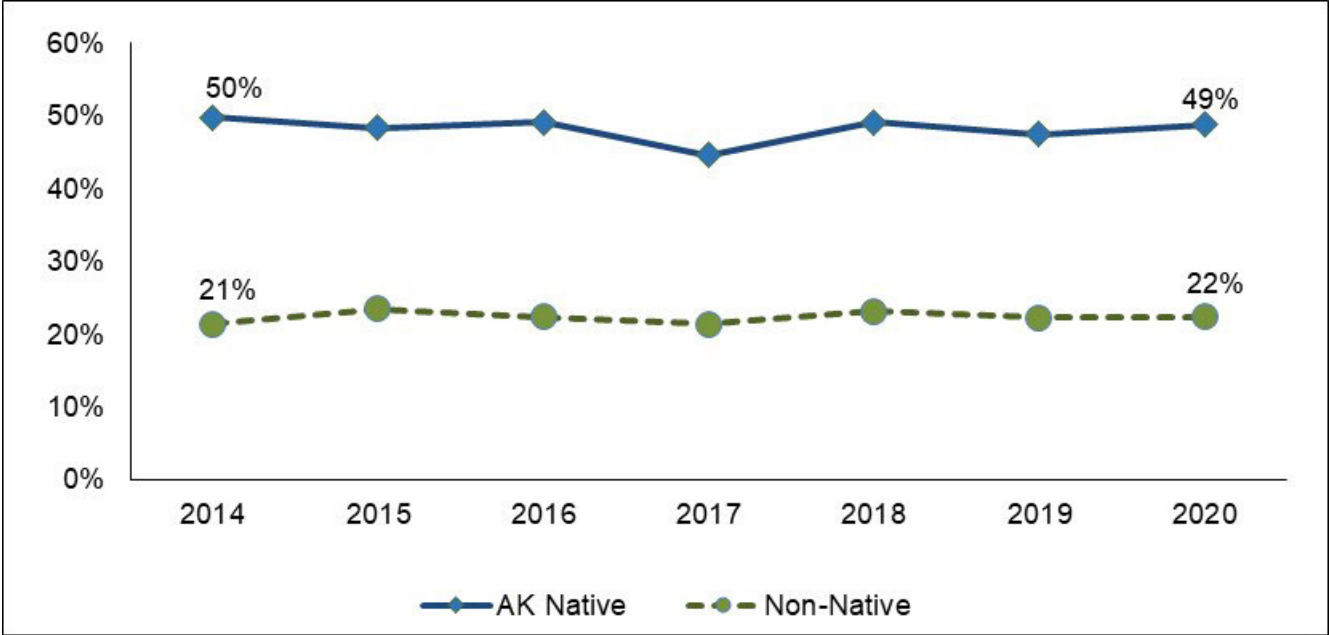


Source: Alaska BRFSS

- Between 2014 and 2020, the percentage of adults who currently use any tobacco or nicotine product remained stable. In 2020, 26% of adults statewide currently used some form of tobacco or nicotine.
- Based on these most recent data, we estimate there are more than 142,800 adults in Alaska who are at risk for poor health outcomes due to tobacco or nicotine products.

¹⁰ For more information about *Healthy Alaskans 2030*, see <https://www.healthyalaskans.org/>

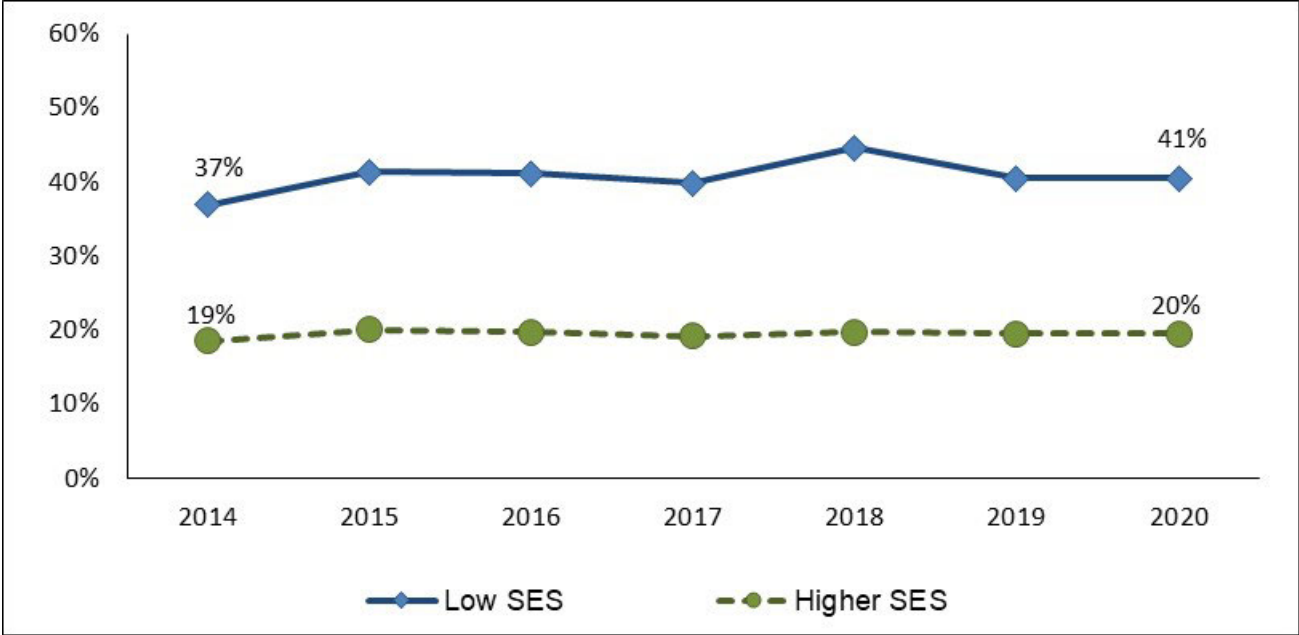
Figure 2. Percentage of Adults Who Currently Use Any Tobacco by Year and Alaska Native Race, Alaska, 2014-2020



Source: Alaska BRFSS

- Among both Alaska Native and non-Native adults, the percentage who use any tobacco did not change significantly from 2014 to 2020.
- Tobacco use among Alaska Native adults was significantly greater than among non-Native adults in all years, including 2020.

Figure 3. Percentage of Adults Who Currently Use Any Tobacco by Year and Socioeconomic Status, Alaska, 2014-2020

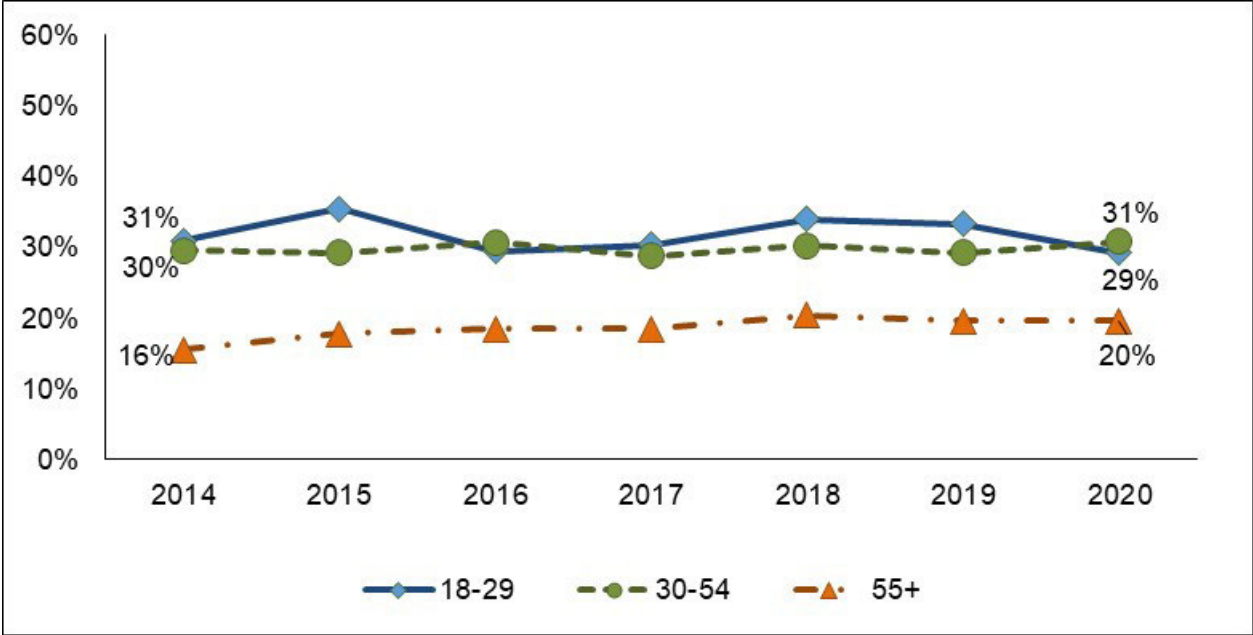


Source: Alaska BRFSS

Socioeconomic Status (SES) measure: “Low SES” is defined as living in a household that is at or below 185% of the Alaska Poverty Level Guideline. See Appendix A for more information.

- Among adults with either low socioeconomic status (SES) or higher SES, the percentage of adults who used any tobacco product did not change significantly from 2014 to 2020.
- Tobacco use among adults with low SES was significantly greater than among adults with higher SES in all years, including 2020.

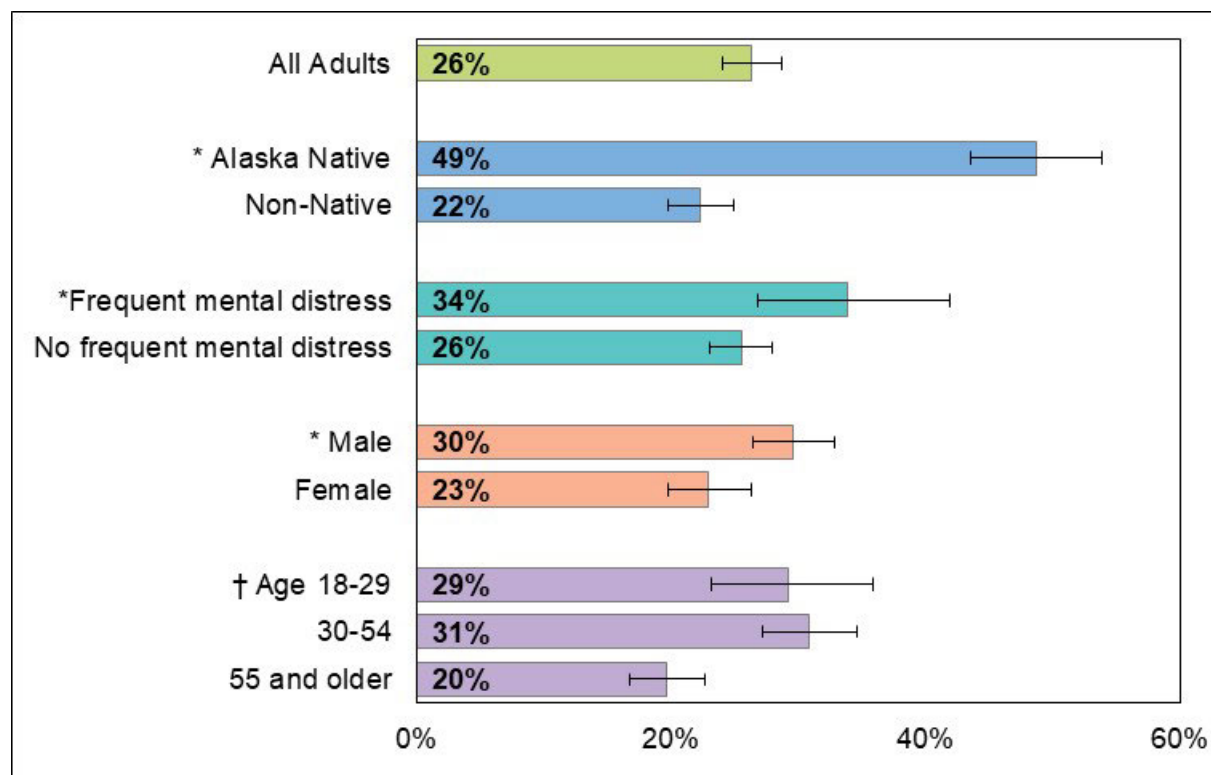
Figure 4. Percentage of Adults Who Currently Use Any Tobacco by Year and Age Group, Alaska, 2014-2020



Source: Alaska BRFSS

- Among adults in each age group, tobacco use has not significantly changed from 2014 to 2020.
- In 2020, and consistently over time, tobacco use among those ages 18 to 29 was significantly greater than among those ages 55 and older.
- Likewise, tobacco use among those ages 30 to 54 was consistently and significantly greater than those ages 55 and older.

Figure 5. Percentage of Adults Who Currently Use Any Tobacco by Selected Demographic Factors, Alaska, 2020



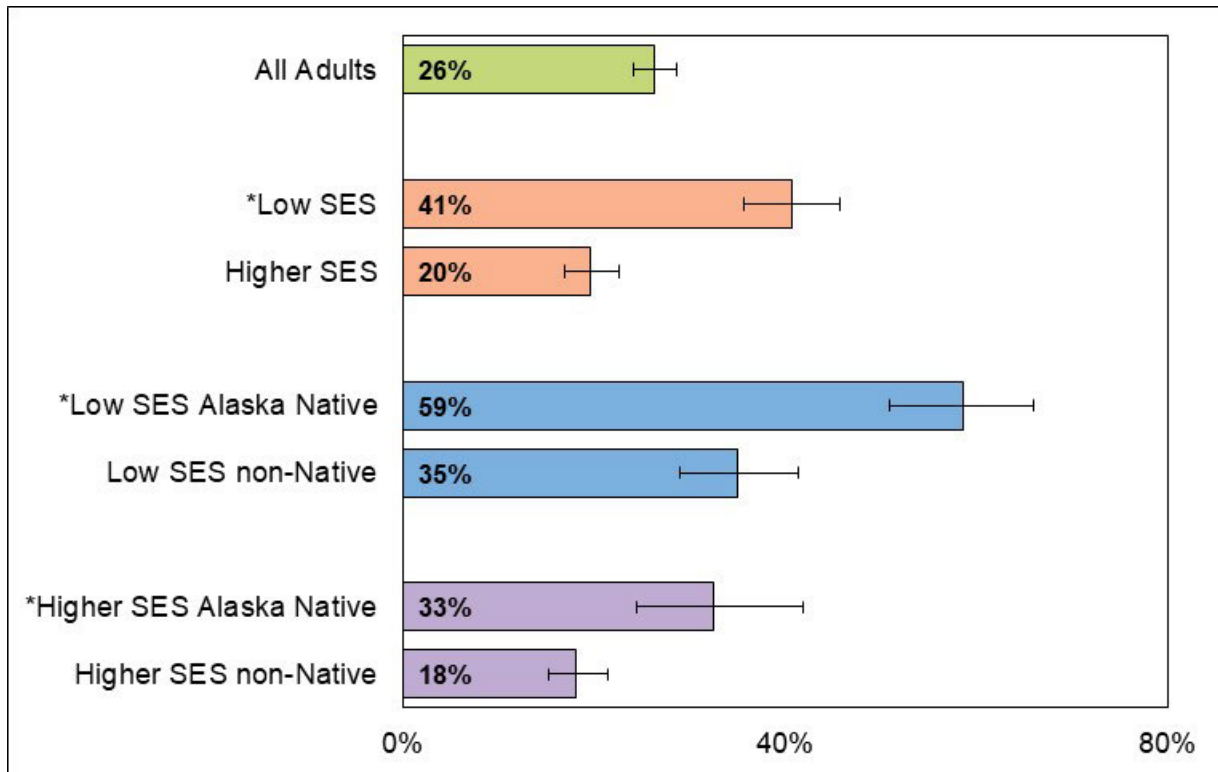
Source: Alaska BRFSS

* Significant difference between the two sub-groups.

† Significant differences between individual sub-groups, as described below.

- In 2020, the percentage of adults who used any tobacco was significantly higher among Alaska Native adults than among non-Native adults (49% vs. 22%).
- Adults experiencing frequent mental distress (14 or more days of poor mental health in the past month) were significantly more likely than those not experiencing frequent mental distress to use a tobacco product (34% vs. 26%).
- Men were significantly more likely than women to use a tobacco product (30% vs. 23%).
- Tobacco use prevalence was not significantly different between young adults ages 18 to 29 and adults ages 30 to 54 (29% and 31%). Adults in both age groups were significantly more likely to use a tobacco product than adults ages 55 and older (20%).

Figure 6. Percentage of Adults Who Currently Use Any Tobacco by Socioeconomic Status (SES), Alaska, 2020



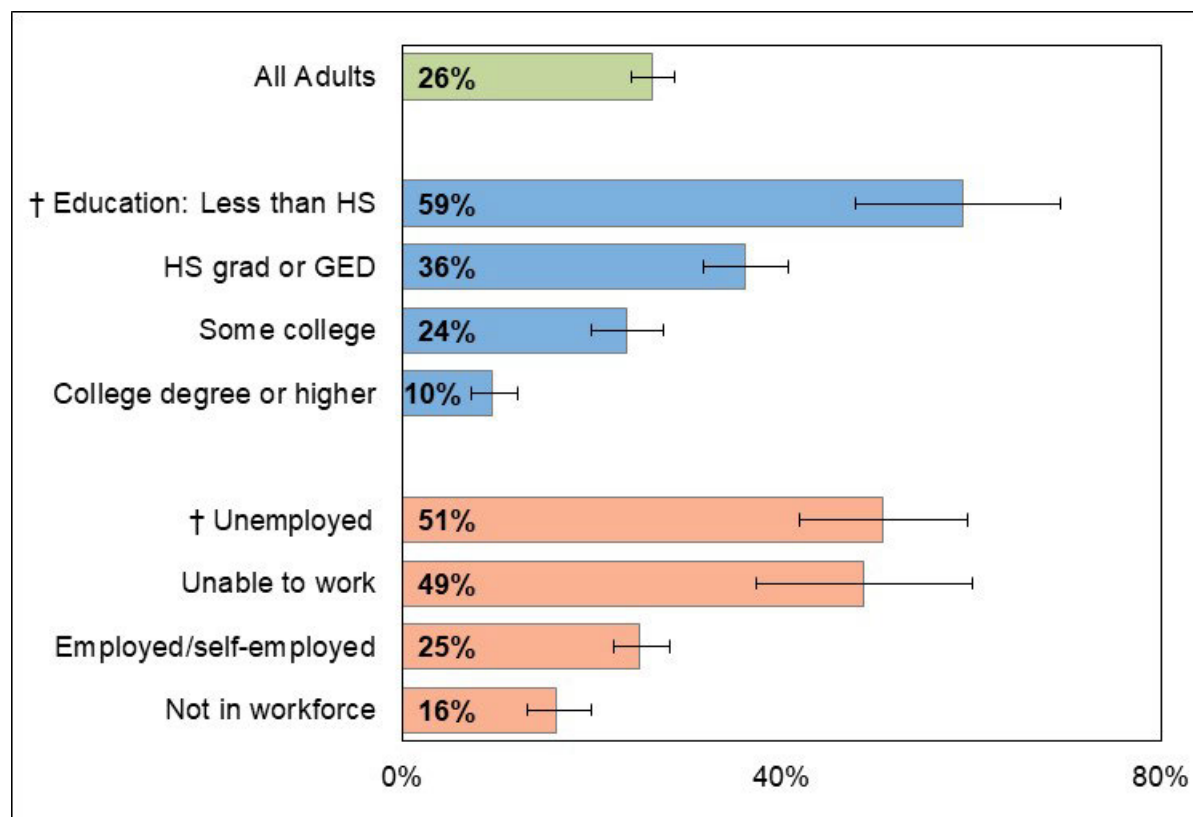
Source: Alaska BRFSS

* Significant difference between the two sub-groups.

Socioeconomic Status (SES) measure: "Low SES" is defined as living in a household that is at or below 185% of the Alaska Poverty Level Guideline. See Appendix A for more information.

- In 2020, the percentage of adults who used any tobacco was significantly higher among low SES adults than among higher SES adults (41% vs. 20%).
- Among low SES adults, Alaska Native adults were significantly more likely than non-Native adults to use a tobacco product (59% vs. 35%).
- Likewise, among higher SES adults, Alaska Native adults were significantly more likely than non-Native adults to use a tobacco product (33% vs. 18%).

Figure 7. Percentage of Adults Who Currently Use Any Tobacco by Formal Education Status and Employment Status, Alaska, 2020

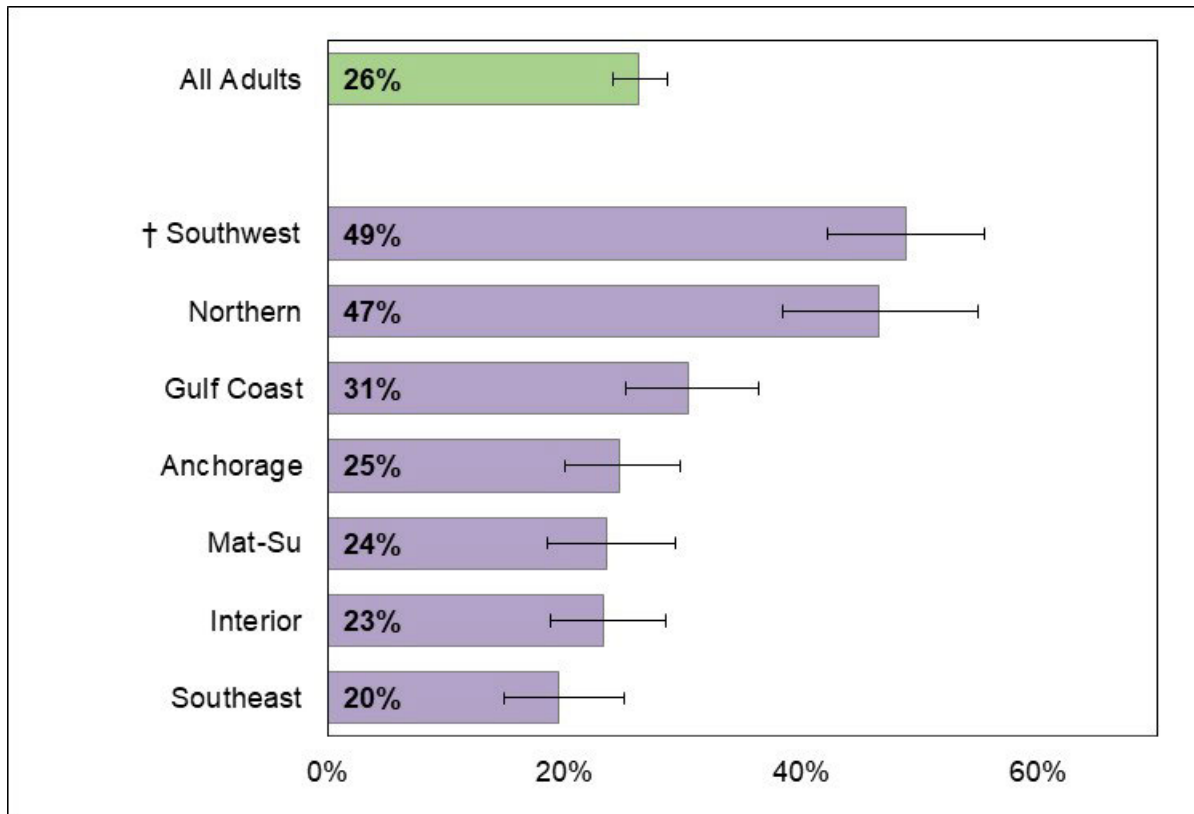


Source: Alaska BRFSS

† Significant differences between sub-groups, as described below.

- In 2020, the percentage of adults who used any tobacco was progressively lower among adults with greater levels of formal education. For example, adults with less than a high school education were significantly more likely to use a tobacco product than those with a high school education (59% vs. 36%). Those with a high school education or GED were significantly more likely to use a tobacco product than those with some college education (36% vs. 24%). Those with some college education were significantly more likely to use a tobacco product than those with a college degree or higher (24% vs. 10%).
- Adults who were not in the workforce (retirees, students, and homemakers) were significantly less likely to use any tobacco product than those in other employment categories (16% vs. 25% among those who were employed, 49% among those who were unable to work, and 51% among those who were unemployed). Likewise, adults who were employed were significantly less likely to use any tobacco product than those who were unemployed or unable to work.

Figure 8. Percentage of Adults Who Currently Use Any Tobacco by Region, Alaska, 2020



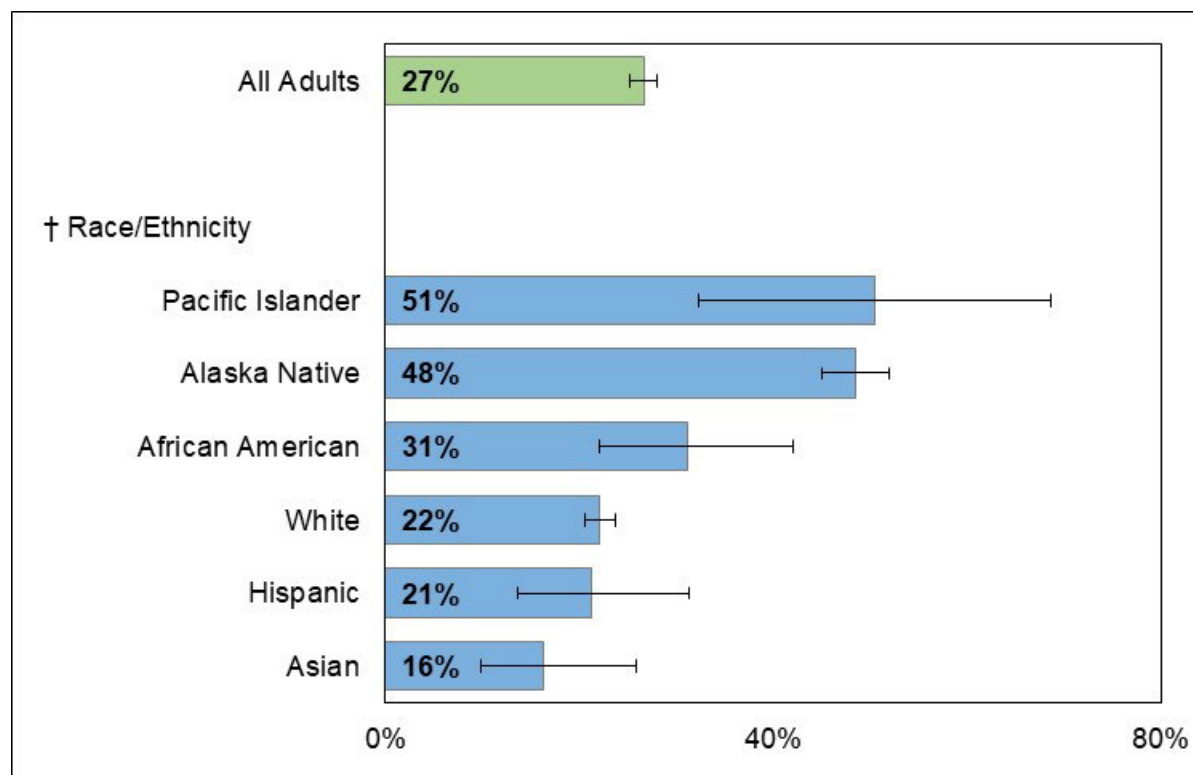
Source: Alaska BRFSS

† Significant differences between sub-groups, as described below.

See Appendix A for a map of Alaska's Public Health regions, within the BRFSS data description.

- In 2020, there was variation by Alaska region in the percentage of adults who used any tobacco. Prevalence within the Southwest and Northern regions was significantly higher than in all the other regions. Moreover, prevalence was higher in the Gulf Coast region than in the Southeast region.

Figure 9. Percentage of Adults Who Currently Use Any Tobacco by Race/Ethnicity, Alaska, 2018-2020



Source: Alaska BRFSS

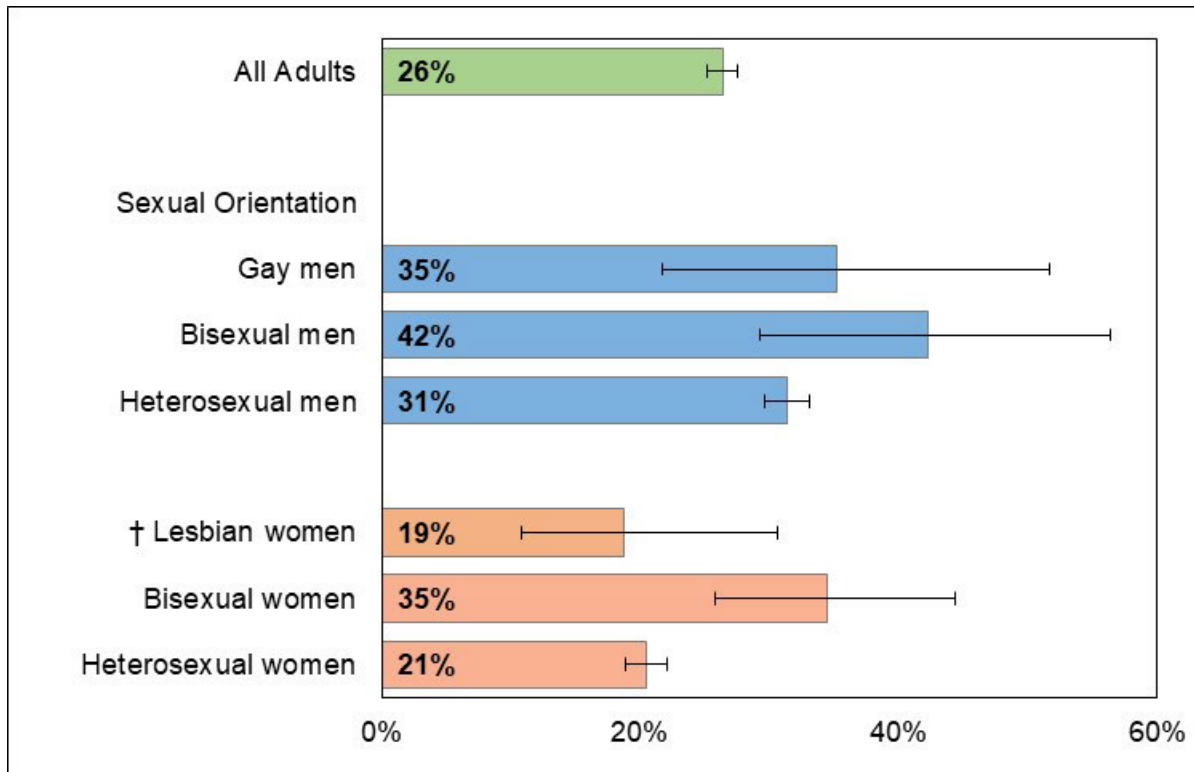
† Significant differences between sub-groups, as described below.

Note: The race category of Alaska Native includes those who self-identified as Alaska Native, alone or in combination with other races or ethnicity. The race categories of African American, Asian, Pacific Islander, and White include those who reported one race only and do not include respondents who self-identified as Hispanic or Latino. Percentages reported in this graph are for 2018-2020 combined and may differ from those reported elsewhere for 2020 only.

In 2018-2020:

- Alaska Native adults were significantly more likely to use a tobacco product than were adults from any other race or ethnicity group except for Pacific Islander adults.
- Pacific Islander adults were significantly more likely to use a tobacco product than were African American, White, Hispanic, and Asian adults.
- African American adults were significantly more likely to use a tobacco product than were Asian adults.

Figure 10. Percentage of Adults Who Currently Use Any Tobacco by Gender and Sexual Orientation, Alaska, 2017-2020



Source: Alaska BRFSS

† Significant differences between sub-groups, as described below.

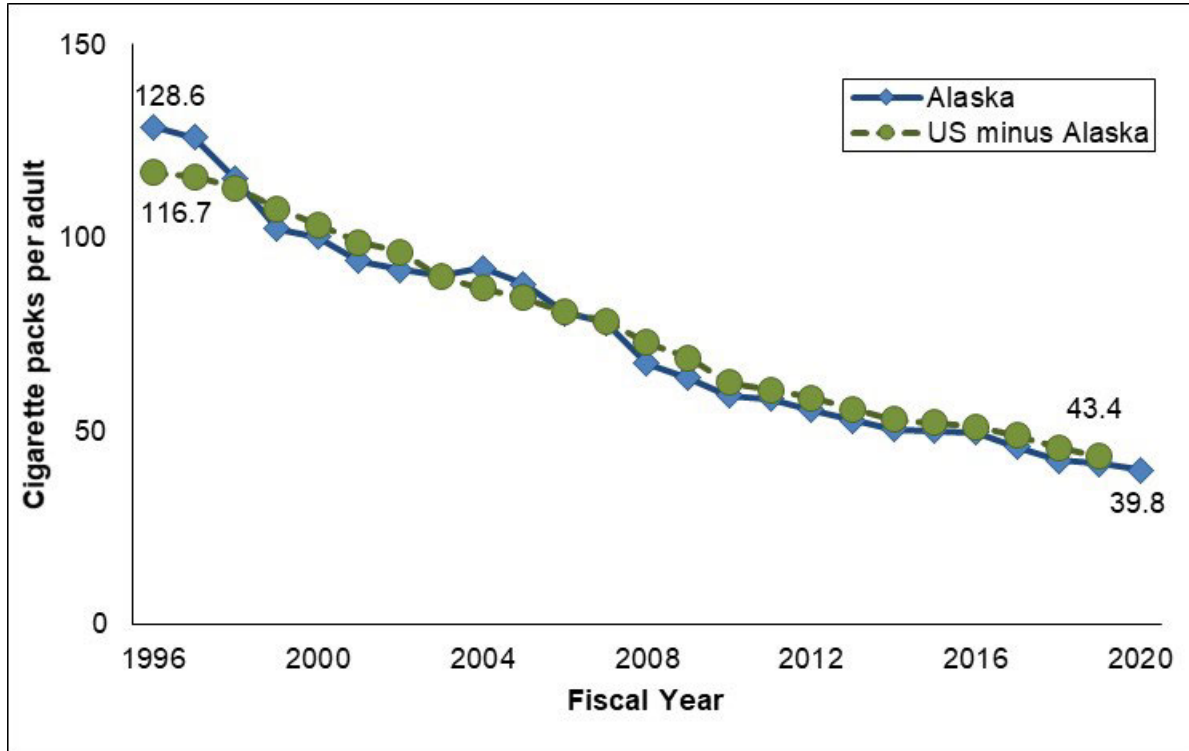
Note: Percentages reported in this graph are for 2017-2020 combined and may differ from those reported elsewhere for 2020 only.

In 2017-2020:

- There were no significant differences in tobacco use prevalence among men, regardless of sexual orientation.
- Women who identified as bisexual were significantly more likely to use a tobacco product than women who identified as lesbian or heterosexual/straight (35% vs. 19% and 21%, respectively).

B. Cigarette Use

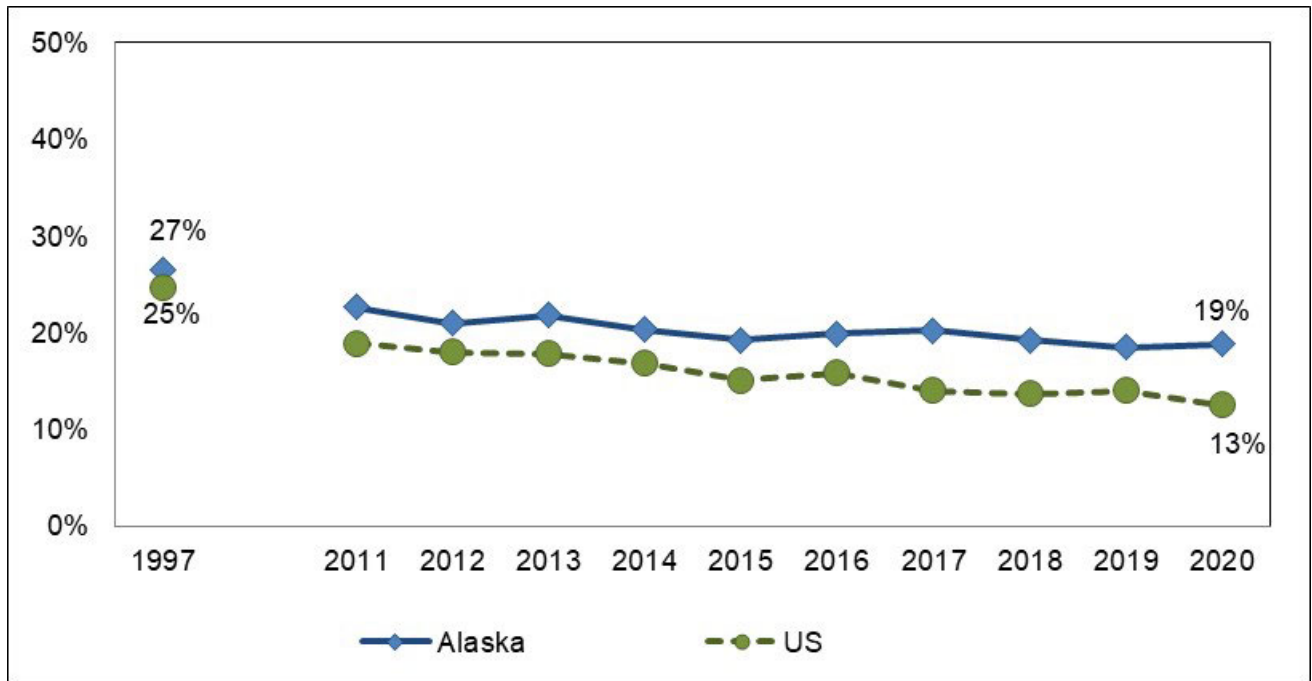
Figure 11. Annual Per Adult Sales of Cigarette Packs, by Fiscal Year, Alaska and U.S. (minus Alaska), 1996 – 2020



Sources: Alaska Department of Revenue, Tax Division FY20 Reports;
Orzechowski & Walker, *The Tax Burden on Tobacco*, 2020 (vol 55).

- The number of cigarette packs sold per adult in Alaska dropped by 69%, from 128.6 packs per adult in 1996 to 39.8 packs per adult in fiscal year 2020.
- This drop in cigarette sales translates to 615 million fewer cigarettes sold in Alaska in 2020 than in 1996.

Figure 12. Percentage of Adults Who Currently Smoke Cigarettes, by Year, Alaska, and US, 1997, 2011-2020



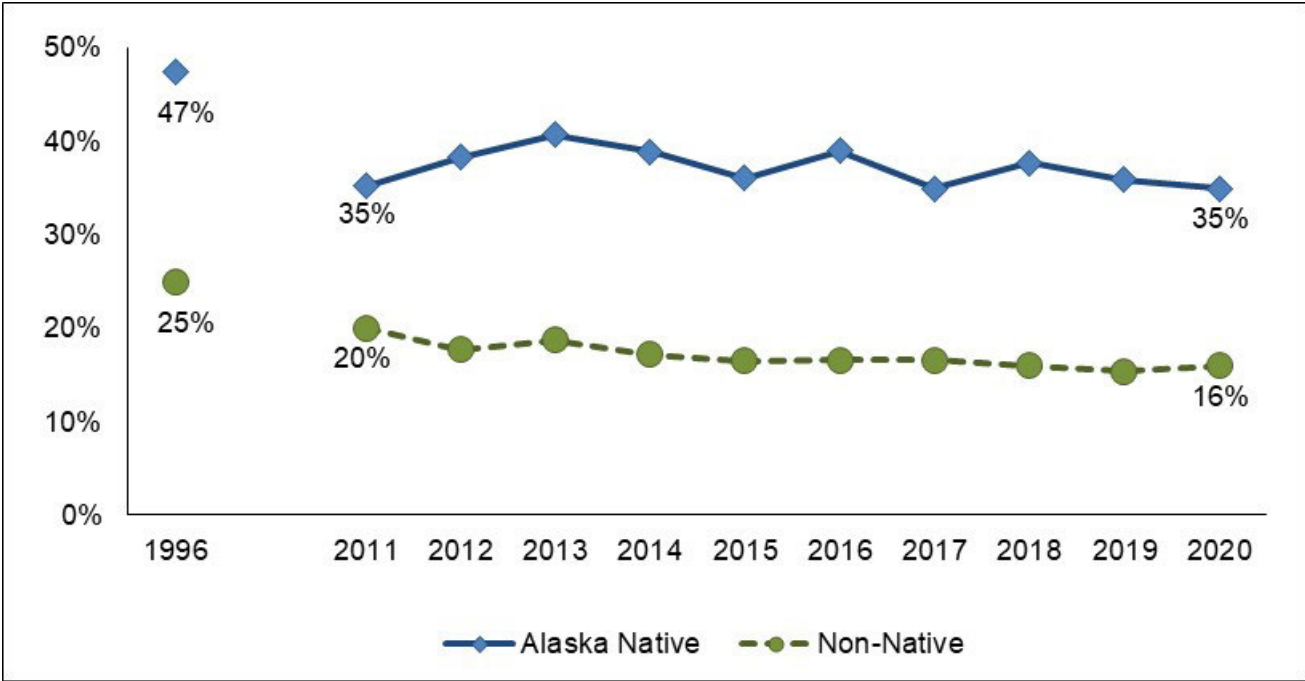
Sources: Alaska BRFSS, National Health Interview Survey.

BRFSS estimates for 2007 and later use an updated weighting method; see Appendix A for more information.

- Smoking prevalence among adults has declined significantly in the long term, from 27% in 1997 to 19% in 2020 in Alaska. Adult smoking prevalence has also declined in the United States overall.
- In Alaska, the percentage of adults who smoke has significantly declined in the past 10 years, from 23% in 2011 to 19% in 2020.
- Based on the most recent estimate of the percentage of adults who smoke, there are approximately 103,200 adults in Alaska who are at risk for poor health outcomes due to cigarette smoking.
- Reductions in smoking prevalence since 1997, which was just prior to the start of Alaska's Tobacco Prevention and Control Program, translate to just over 42,000 fewer Alaska adults who smoke.¹¹

¹¹ Had the adult smoking prevalence in 2020 been 26.5% (prevalence of adult smoking in 1997) there would be an estimated 42,300 more adults who smoke in 2020.

Figure 13. Percentage of Adults Who Currently Smoke Cigarettes, by Year and Race, Alaska, 1996, 2011-2020

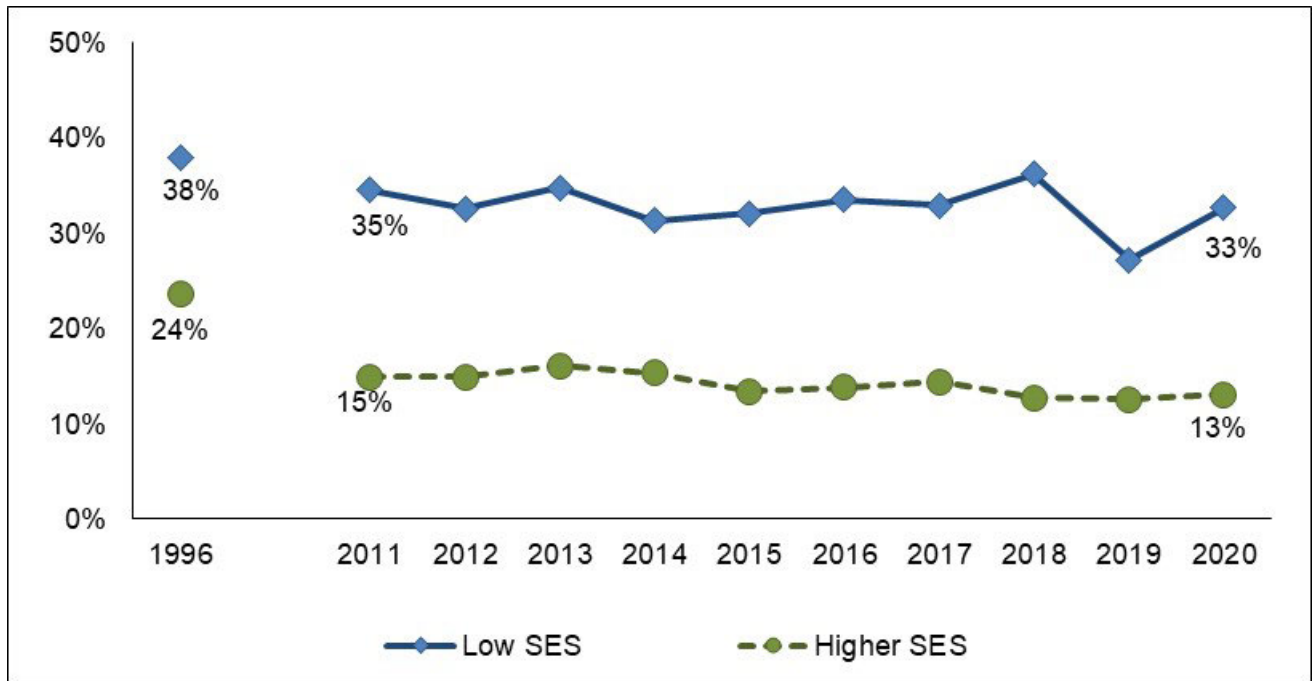


Source: Alaska BRFSS

Estimates for 2007 and later use an updated weighting method; see Appendix A for more information.

- Among Alaska Native adults, there was no significant change in the percentage of adults who smoke from 2011 to 2020.
- Among non-Native adults, smoking decreased significantly from 20% in 2011 to 16% in 2020.

Figure 14. Percentage of Adults Who Currently Smoke Cigarettes, by Year and Socioeconomic Status, Alaska, 1996, 2011-2020



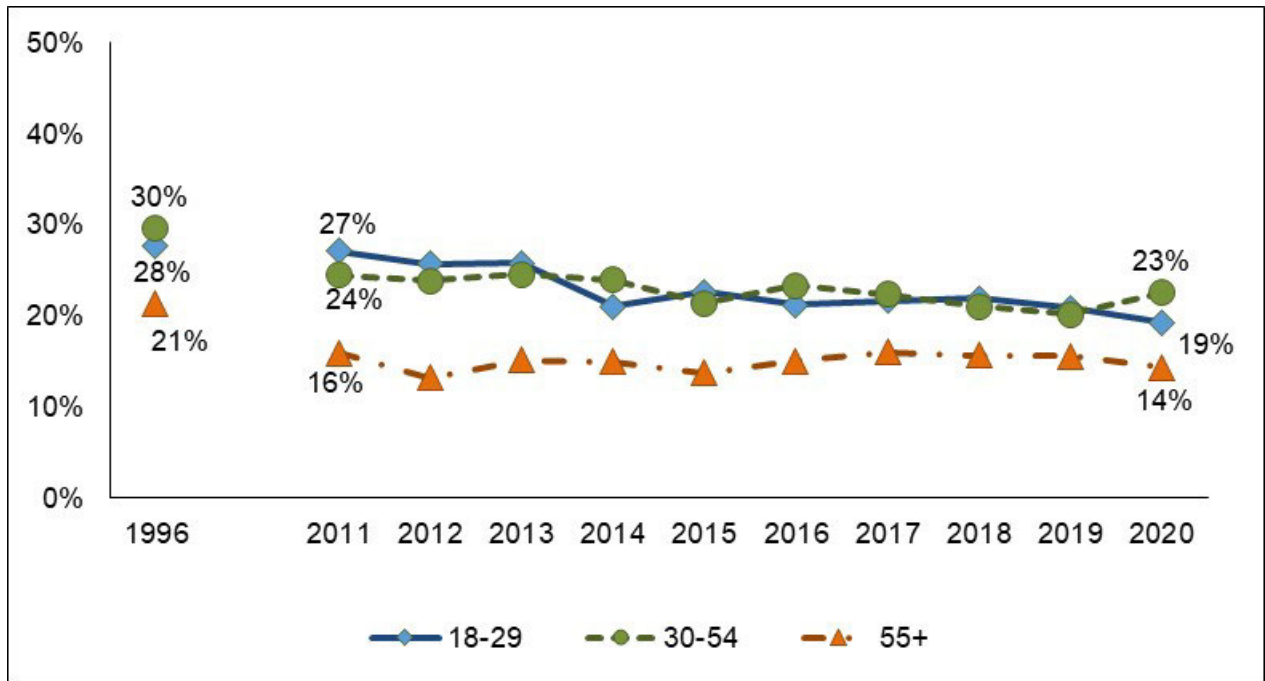
Source: Alaska BRFSS

Estimates for 2007 and later use an updated weighting method; see Appendix A for more information.

“Low SES” is defined as household income at 185% or less of the Alaska Poverty Level Guideline. See Appendix A for more information.

- Among adults with lower socioeconomic status (SES), smoking prevalence did not change significantly between 2011 and 2020.
- Among adults with higher SES, smoking prevalence did decrease significantly between 2011 and 2020.

Figure 15. Percentage of Adults Who Currently Smoke Cigarettes, by Year and Age Group, Alaska, 1996, 2011-2020

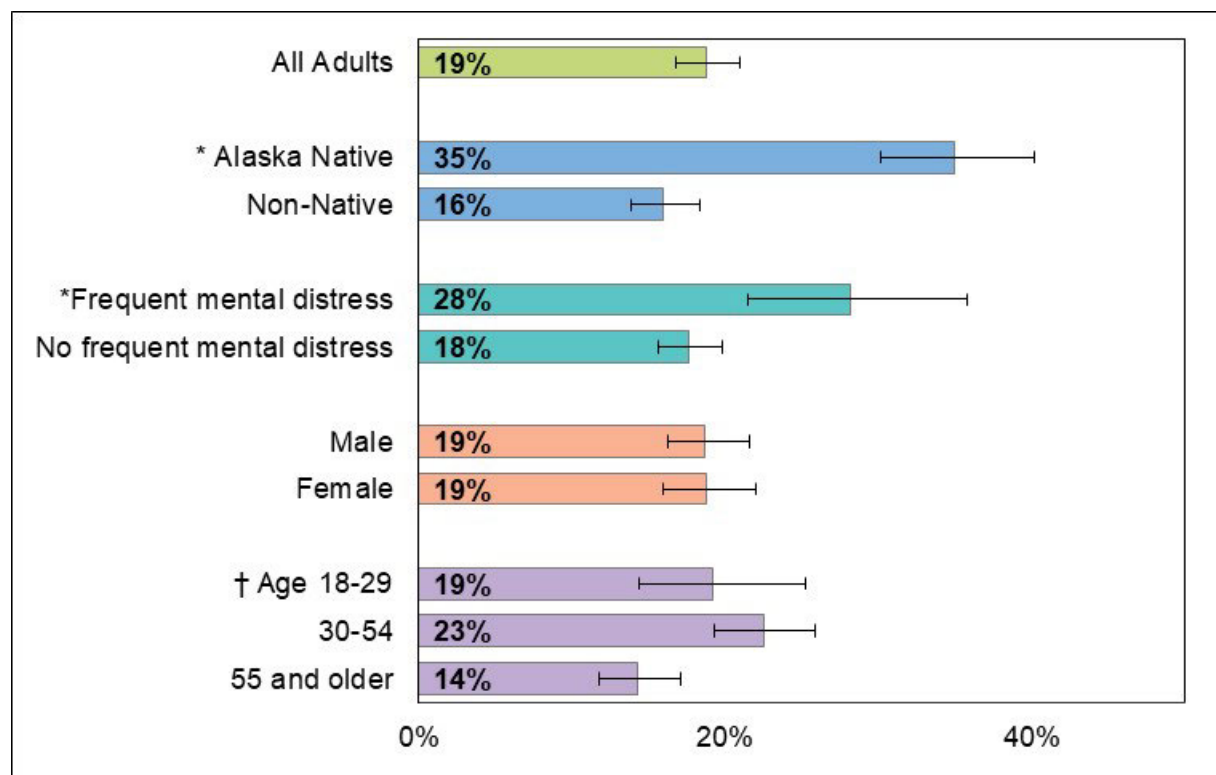


Source: Alaska BRFSS

Estimates for 2007 and later use an updated weighting method; see Appendix A for more information.

- Among adults age 18 to 29, smoking decreased significantly from 27% in 2011 to 19% in 2020.
- Among adults age 30 to 54, smoking decreased significantly from 24% in 2011 to 23% in 2020.
- Smoking did not change significantly among adults age 55 and older from 2011 to 2020, however prevalence among those age 55 and older remained significantly less than the other two age groups throughout these years.

Figure 16. Percentage of Adults Who Currently Smoke Cigarettes, by Selected Demographic Factors, Alaska, 2020



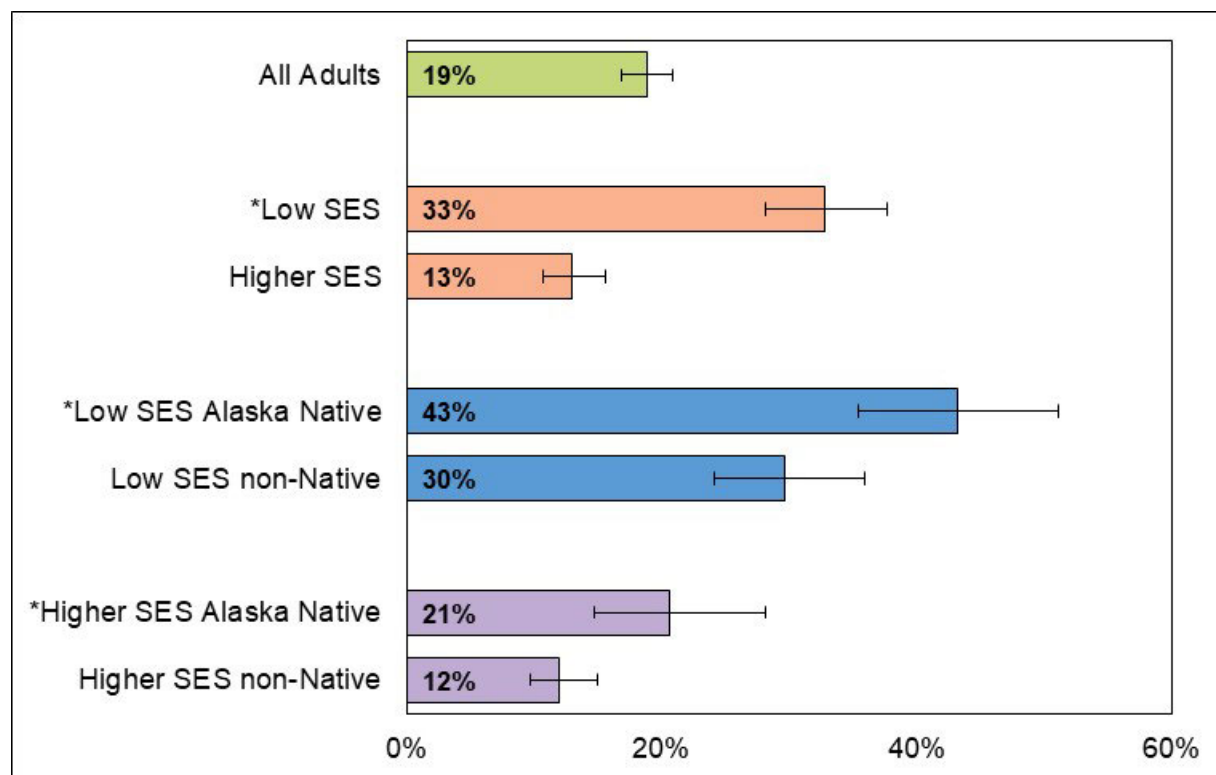
Source: Alaska BRFSS

* Significant difference between the two sub-groups.

† Significant differences between sub-groups, as described below.

- In 2020, adult smoking was significantly higher among Alaska Native adults than among non-Native adults (35% vs. 16%).
- Adults experiencing frequent mental distress (14 or more days of poor mental health in the past month) were significantly more likely to be smokers than those not experiencing frequent mental distress (28% vs. 18%).
- There was no difference between men and women.
- Smoking prevalence was similar for young adults age 18 to 29 and adults age 30 to 54 (19% and 23%, respectively). However, adults ages 30 to 54 were significantly more likely to be smokers than adults age 55 and older (23% vs. 14%).

Figure 17. Percentage of Adults Who Currently Smoke Cigarettes, by Socioeconomic Status (SES), Alaska, 2020



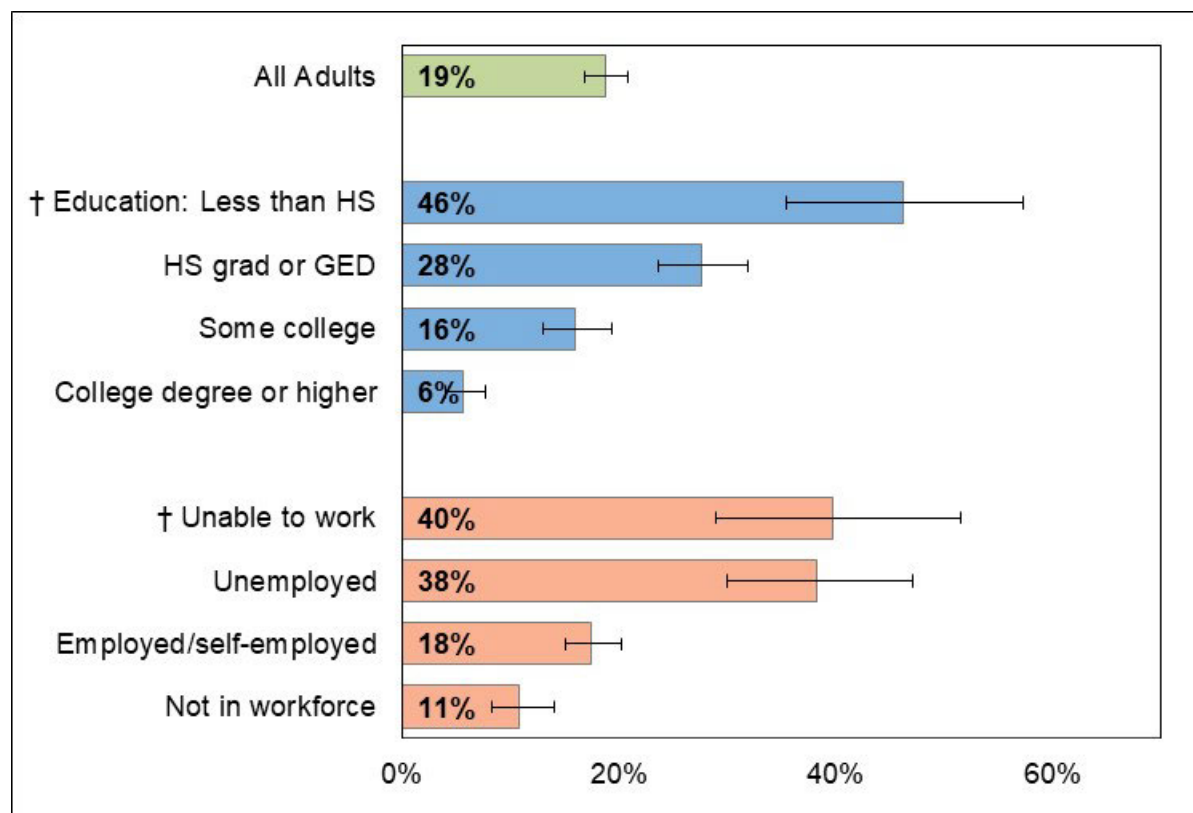
Source: Alaska BRFSS

* Significant difference between the two sub-groups.

“Low SES” is defined as household income at 185% or less of the Alaska Poverty Level Guideline. See Appendix A for more information.

- In 2020, the percentage of adults who smoked was significantly higher among low SES adults than among higher SES adults (33% vs. 13%).
- Among low SES adults, Alaska Native adults were significantly more likely than non-Native adults to smoke (43% vs. 30%).
- Likewise, among higher SES adults, Alaska Native adults were significantly more likely than non-Native adults to smoke (21% vs. 12%).

Figure 18. Percentage of Adults Who Currently Smoke Cigarettes, by Formal Education Status and Employment Status, Alaska, 2020

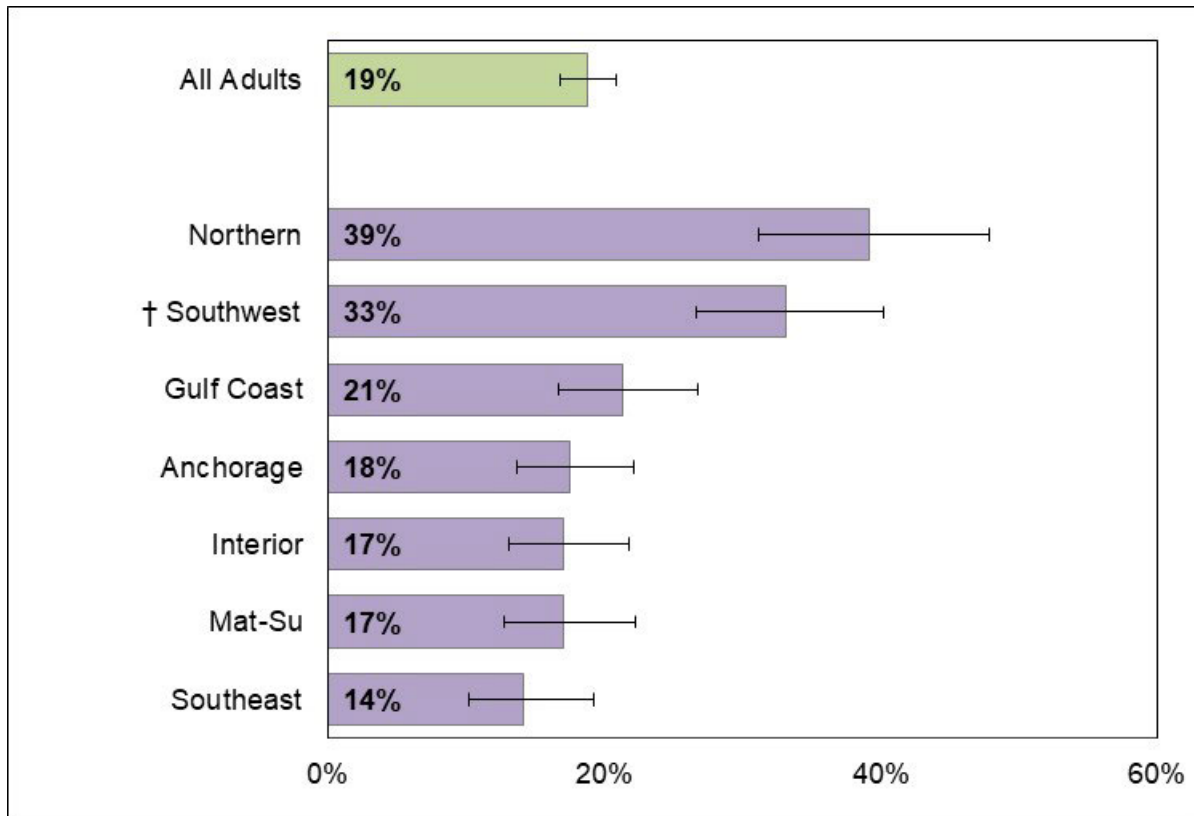


Source: Alaska BRFSS

† Significant differences between sub-groups, as described below.

- In 2020, the percentage of adults who smoked was progressively lower among adults with greater levels of formal education. For example, adults with less than a high school education were significantly more likely to smoke than those with a high school education (46% vs. 28%). Those with a high school education or GED were significantly more likely to smoke than those with some college education (28% vs. 16%). Those with some college education were significantly more likely to smoke than those with a college degree or higher (16% vs. 6%).
- Adults who were not in the workforce (retirees, students, and homemakers) were significantly less likely to smoke than those in other employment categories (11% vs. 18% among those who were employed, 38% among those who were unemployed, and 40% among those who were unable to work). Likewise, adults who were employed were significantly less likely to smoke than those who were unemployed or unable to work.

Figure 19. Percentage of Adults Who Currently Smoke Cigarettes by Region, Alaska, 2020

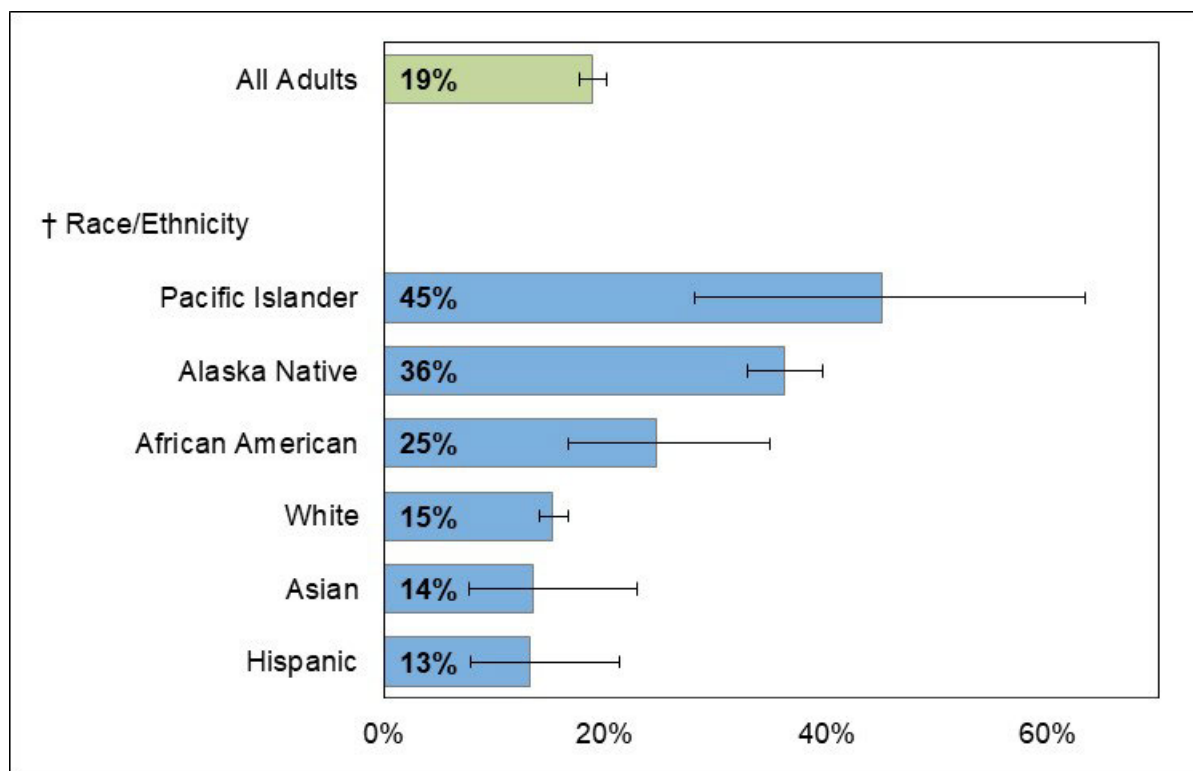


Source: Alaska BRFSS

† Significant differences between sub-groups, as described below.

- In 2020, adults in the Northern and Southwest regions were significantly more likely to smoke than adults in all other regions.

Figure 20. Percentage of Adults Who Currently Smoke Cigarettes, by Race/Ethnicity, Alaska, 2018-2020



Source: Alaska BRFSS

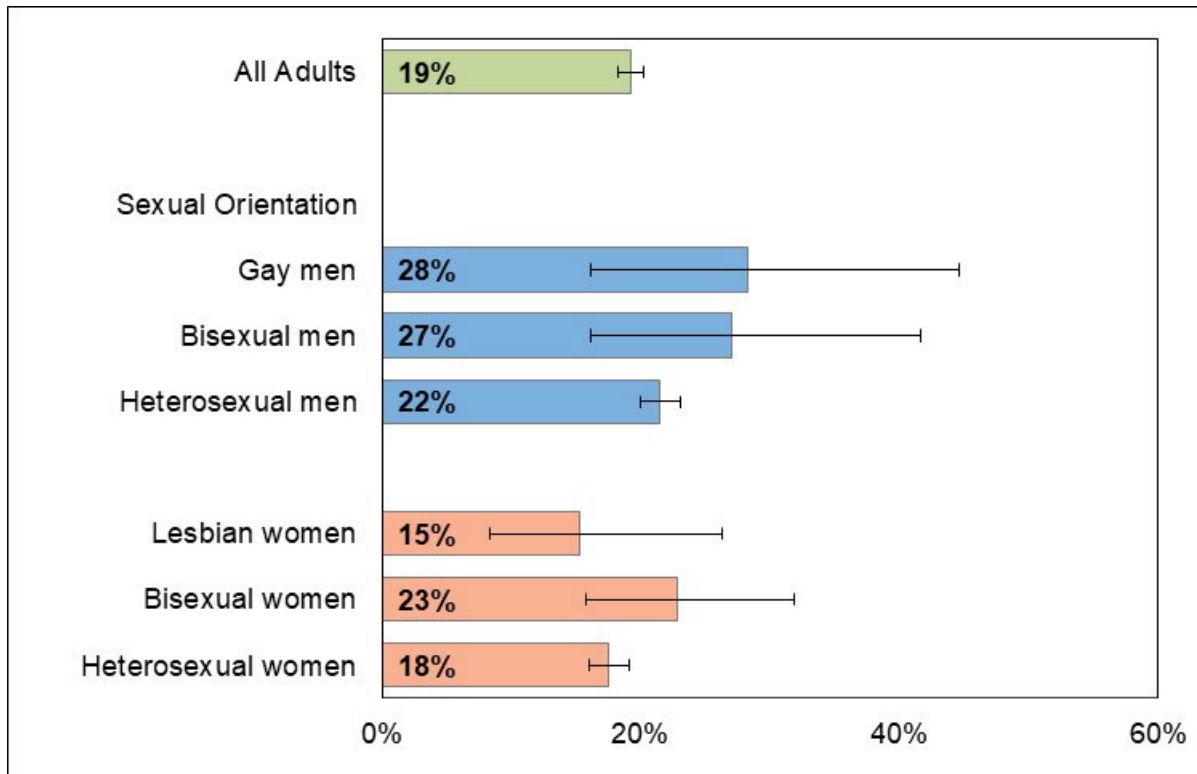
† Significant differences between sub-groups, as described below.

Note: The race category of Alaska Native includes those who self-identified as Alaska Native, alone or in combination with other races or ethnicity. The race categories of African American, Asian, Pacific Islander, and White include those who reported one race only and do not include respondents who self-identified as Hispanic or Latino. Percentages reported in this graph are for 2018-2020 combined and may differ from those reported elsewhere for 2020 only.

In 2018-2020:

- Alaska Native adults were significantly more likely to smoke than adults from any other race or ethnicity group except Pacific Islander adults.
- Pacific Islander adults were significantly more likely to smoke than Asian, White, or Hispanic adults
- African American adults were significantly more likely to be smokers than White or Hispanic adults.

Figure 21. Percentage of Adults Who Currently Smoke Cigarettes, by Gender and Sexual Orientation, Alaska, 2017-2020



Source: Alaska BRFSS

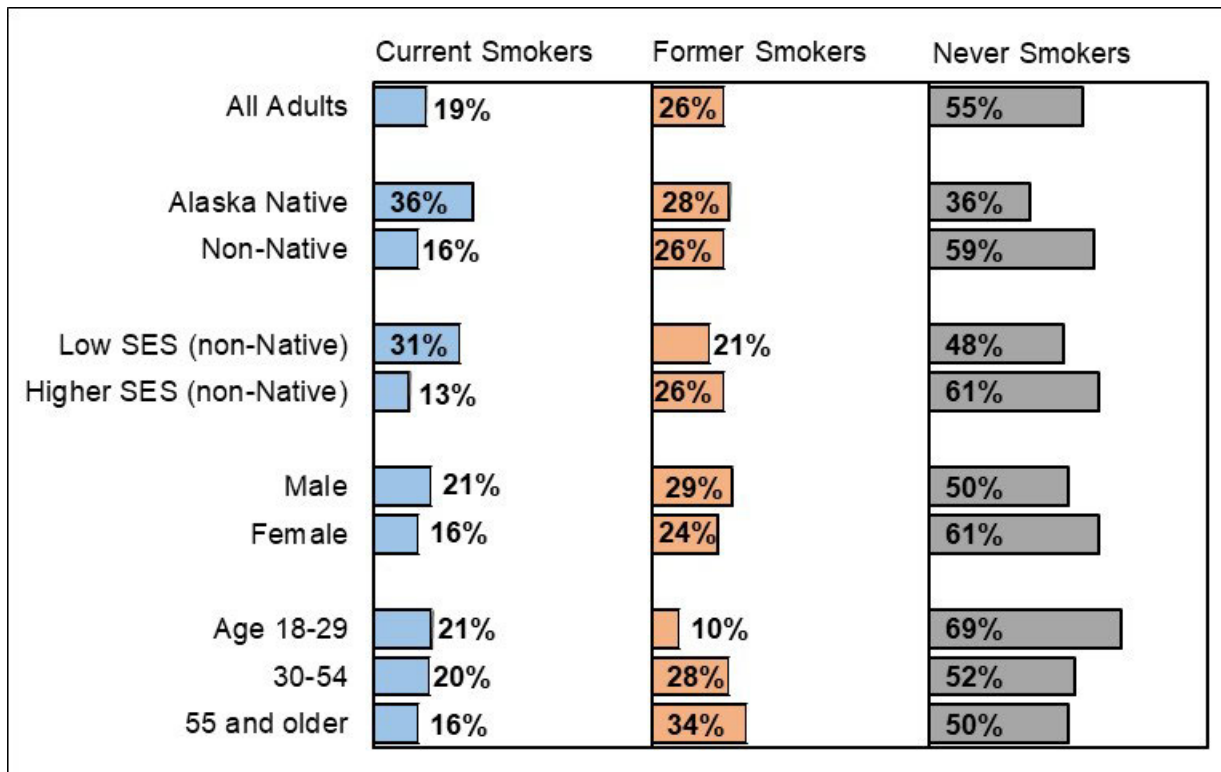
Note: Percentages reported in this graph are for 2017-2020 combined and may differ from those reported elsewhere for 2020 only.

In 2017-2020:

- Among men, there were no significant differences in smoking prevalence by sexual orientation.
- Likewise, among women there were no significant differences in smoking prevalence by sexual orientation.

C. Quitting Cigarettes

Figure 22. Current Cigarette Smoking Status among Adults by Selected Demographic Factors, Alaska, 2020

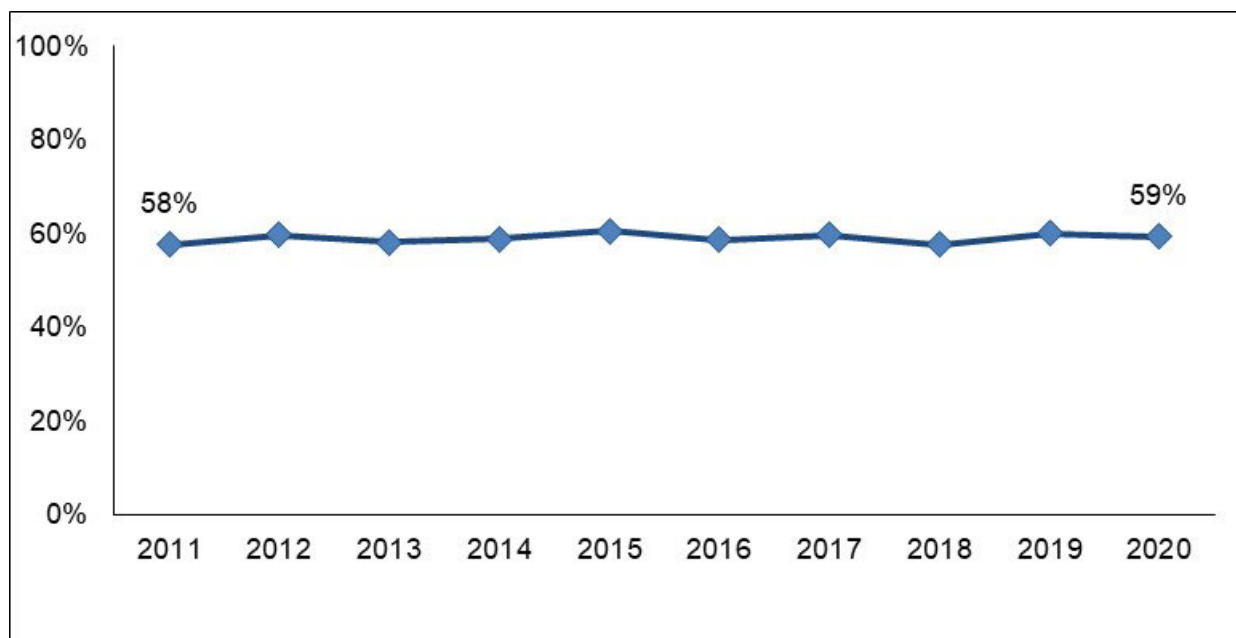


Source: Alaska BRFSS

“Low SES” is defined as household income at 185% or less of the Alaska Poverty Level Guideline. See Appendix A for more information.

- In 2020, there were significant differences in the percentages of current and never-smoking status among Alaska Native and non-Native adults, as well as between low SES and higher SES adults. The percentage of adults who were former smokers was similar for these sets of groups and not significantly different.
- Among age groups, young adults were significantly less likely to be former smokers. Likewise, young adults ages 18-29 were significantly more likely to report never-smoking than both adults ages 30-54 and adults age 55 and older.

Figure 23. Quit Ratio: Among Adults Age 25 or Older Who Ever Smoked Cigarettes, Percentage Who Have Quit Smoking, Alaska, 2011-2020



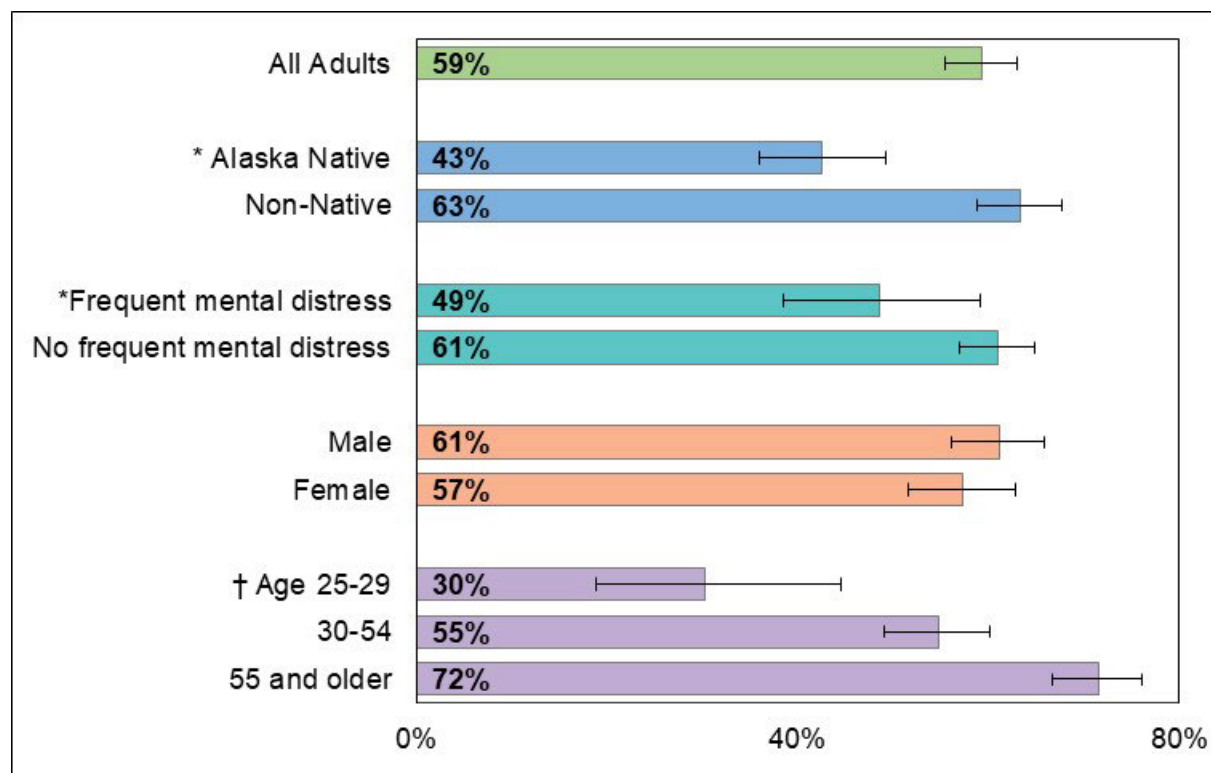
Source: Alaska BRFSS

Quit ratio is the proportion of people who have quit smoking among those who have ever smoked. This measure is reported among adults who are age 25 or older, so that the trend is less likely to be affected by changes in initiation of smoking occurring in those who are less than 25 years of age.¹²

- In Alaska, the quit ratio has not increased significantly from 2011 to 2020 among all adults.
- Moreover, the quit ratio did not change significantly from 2011 to 2020 among subgroups of adults, including by gender, race, SES status, region, work status, or sexual orientation (data not shown).

¹² This is different than “quit attempts” which is reported for all ages who currently smoke (see Figure 26).

Figure 24. Quit Ratio: Among Adults Age 25 or Older Who Ever Smoked Cigarettes, Percentage Who Have Quit Smoking, by Selected Demographic Factors, Alaska, 2020



Source: Alaska BRFSS

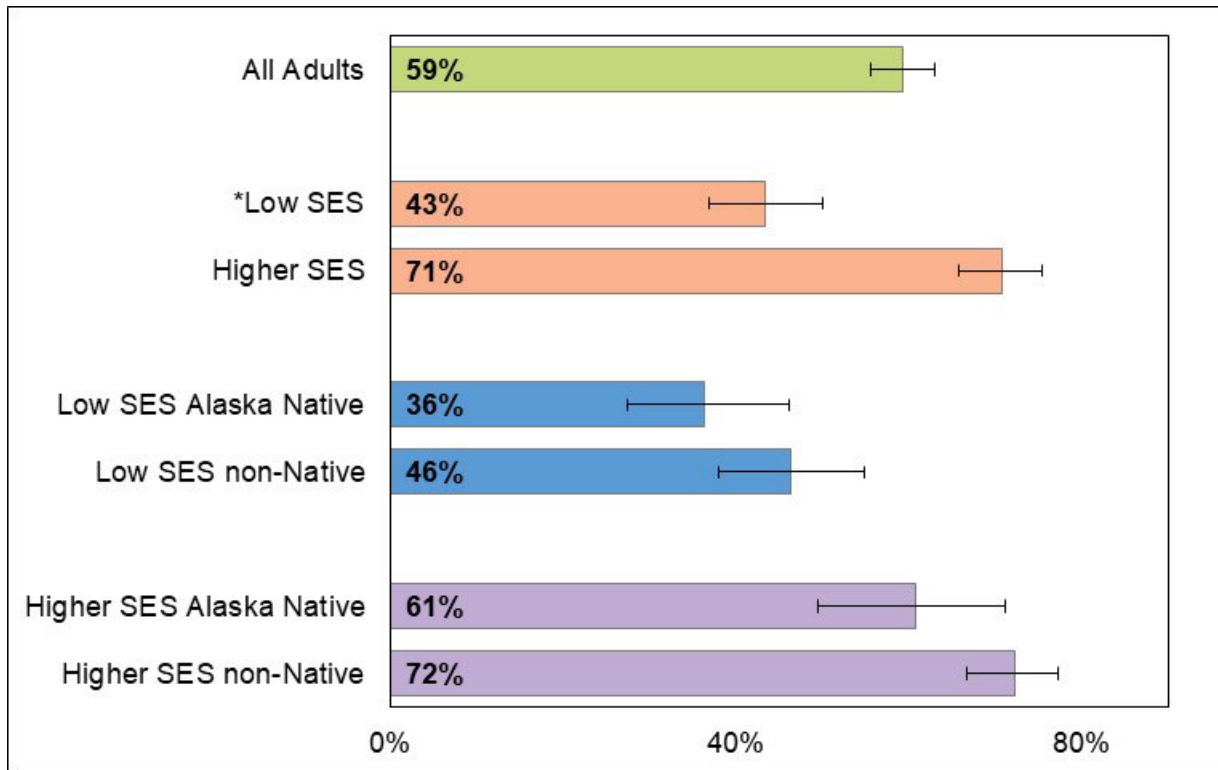
* Significant difference between the two sub-groups

† Significant differences between sub-groups, as described below.

Quit ratio is the proportion of people who have quit smoking among those who have ever smoked. This measure is reported among adults who are age 25 or older.

- In 2020, non-Native adults were significantly more likely to have quit than Alaska Native adults (63% vs. 43%).
- Adults who did not experience frequent mental distress (14 or more days of poor mental health in the past month) were significantly more likely to have quit smoking than those experiencing frequent mental distress (61% vs. 49%).
- Adults ages 55 and older were significantly more likely to have quit than adults ages 30 to 54 (72% vs. 55%). Similarly, adults age 30-54 were significantly more likely to have quit than those age 25-29 (55% vs. 30%).

Figure 25. Quit Ratio: Among Adults Ages 25 or Older Who Ever Smoked Cigarettes, Percentage Who Have Quit Smoking by Socioeconomic Status (SES), Alaska, 2020



Source: Alaska BRFSS

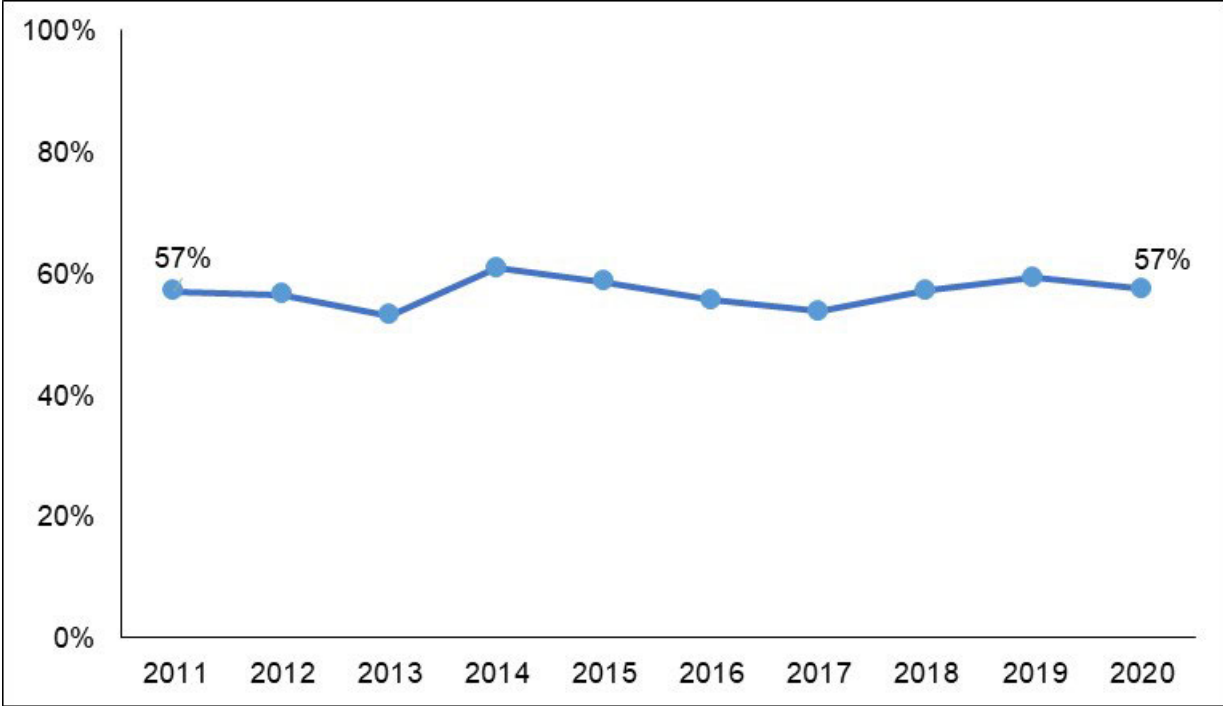
* Significant difference between the two sub-groups.

“Low SES” is defined as household income at 185% or less of the Alaska Poverty Level Guideline. See Appendix A for more information.

Quit ratio is the proportion of people who have quit smoking among those who have ever smoked. This measure is reported among adults who are age 25 or older.

- In 2020, those in the higher SES group were significantly more likely to have quit than those in the lower SES group (71% compared to 43%).
- There was no significant difference in the likelihood of having quit smoking between low SES Alaska Native and low SES non-Native adults. Likewise, there was not a significant difference in the likelihood of having quit smoking between higher SES Alaska Native and higher SES non-Native adults.

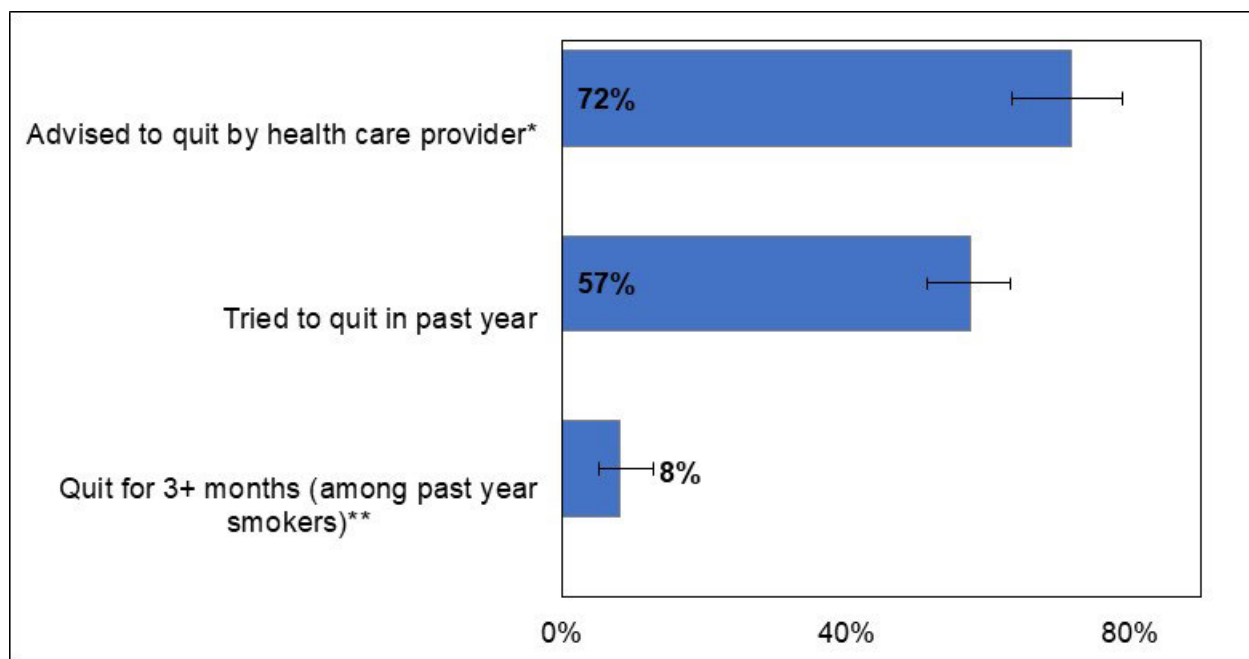
Figure 26. Attempted to Quit During Past Year, among Adults Who Currently Smoke Cigarettes, Alaska, 2011-2020



Source: Alaska BRFSS

- The percentage of Alaska adults who currently smoke and tried to quit in the past year has remained relatively stable for the past 10 years.
- More than half of adults who smoke had tried to quit during the past year in 2011 (57%) and in 2020 (57%).

Figure 27. Percentage of Adults Reporting Selected Indicators Related to Quitting, among Adults Who Smoke Cigarettes, Alaska, 2020



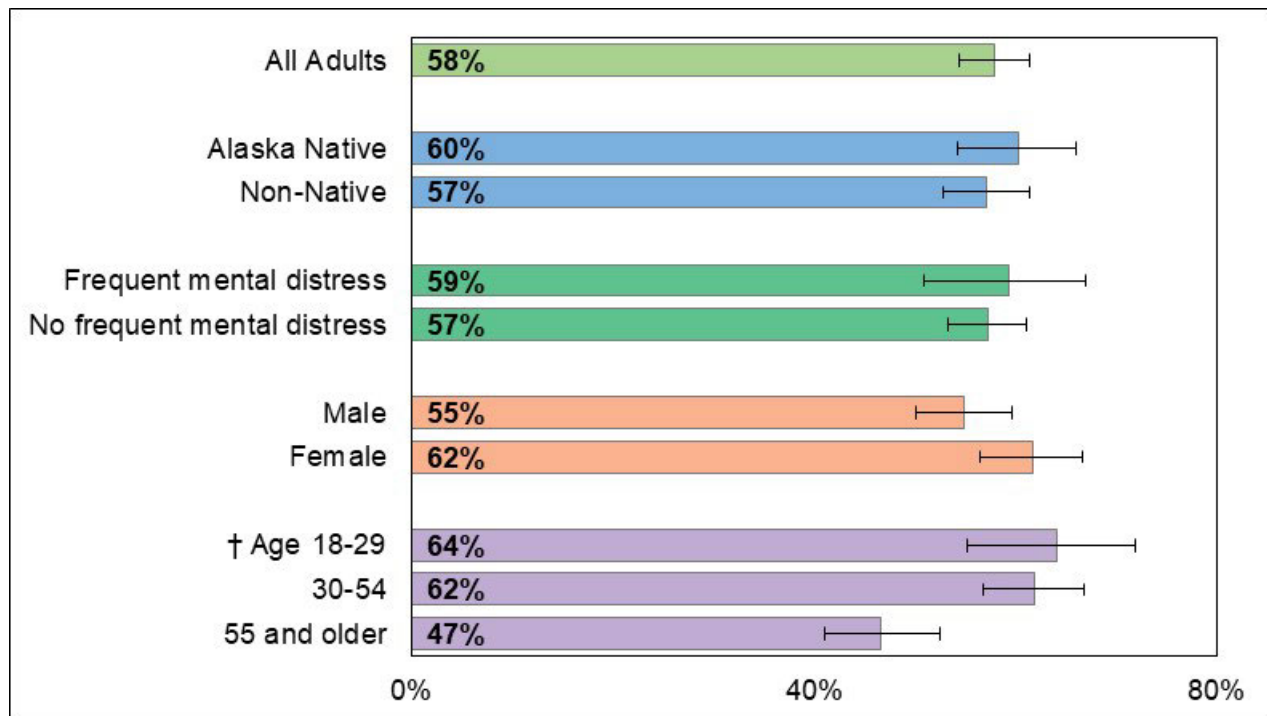
Sources: Alaska BRFSS

*Among current smokers who had a health care visit in the past 12 months.

**Among current and former smokers who were smoking in the past year.

- The majority of adults who smoke and who have had a health care visit in the past 12 months have been advised to quit by a health care provider (72%).
- In 2020, more than half of current smokers (57%) attempted to quit in the past 12 months.
- In 2020, 8% of Alaska adults who smoked in the past year had successfully sustained quitting for 3 or more months.

Figure 28. Attempted to Quit during Past Year, among Adults Who Currently Smoke Cigarettes, by Demographic Groups, Alaska, 2018-2020



Source: Alaska BRFSS

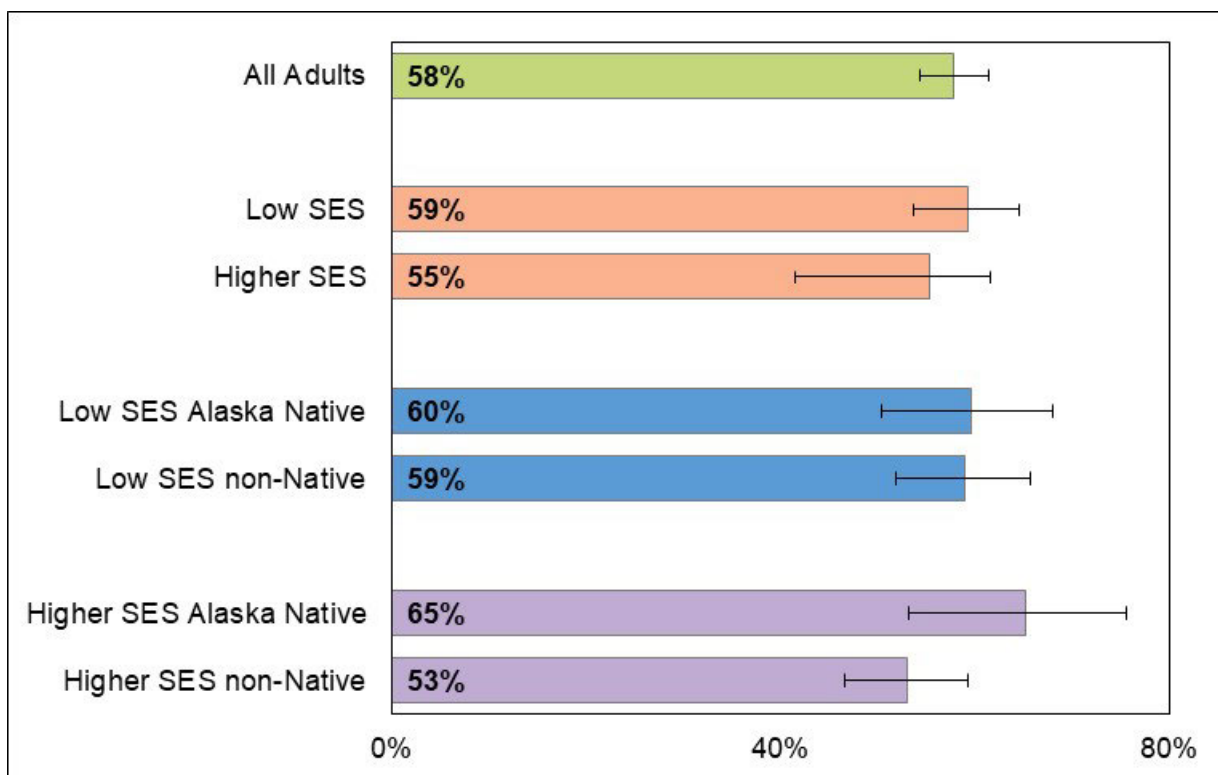
† Significant differences between sub-groups, as described below.

Although there are disparities in the percentage of adults who are able to sustain quitting (see Figures 24 and 25), interest in quitting is relatively uniform across groups.

For 2018-2020 combined:

- More than half of adults who currently smoke cigarettes had tried to quit in the past year (58%).
- The percentage of adults who currently smoke and had tried to quit was similar for Alaska Native and non-Native adults, for those experiencing frequent mental distress and no frequent mental distress as well as for men and women.
- The percentage of adults who attempted to quit was different by age group. The percentage of young adults (ages 18-29) who tried to quit was greater than for adults age 55+ (64% vs. 47%). Likewise, a significantly higher percentage of adults age 30-54 attempted to quit as compared to the percentage of adults age 55+ who attempted to quit (62% vs. 47%).

Figure 29. Attempted to Quit during Past Year, among Adults Who Currently Smoke Cigarettes, by Socioeconomic Status (SES), Alaska, 2018-2020



Source: Alaska BRFSS

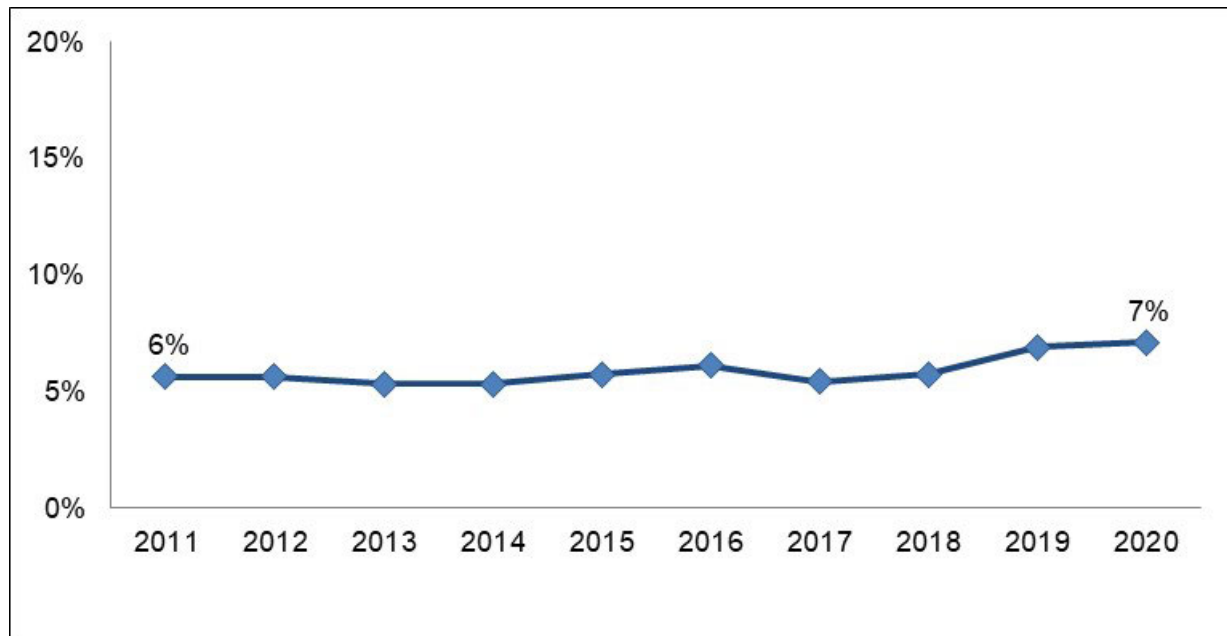
“Low SES” is defined as household income at 185% or less of the Alaska Poverty Level Guideline. See Appendix A for more information.

For 2018-2020 combined:

- There was no difference in attempts to quit smoking among low and higher SES adults (59% vs. 55%).
- There was no significant difference in attempts to quit smoking between low SES Alaska Native and low SES non-Native adults. Likewise, there was not a significant difference in attempts to quit smoking between higher SES Alaska Native and higher SES non-Native adults.

D. Smokeless Tobacco Use

Figure 30. Percentage of Adults Who Currently Use Smokeless Tobacco, by Year, Alaska, 2011-2020



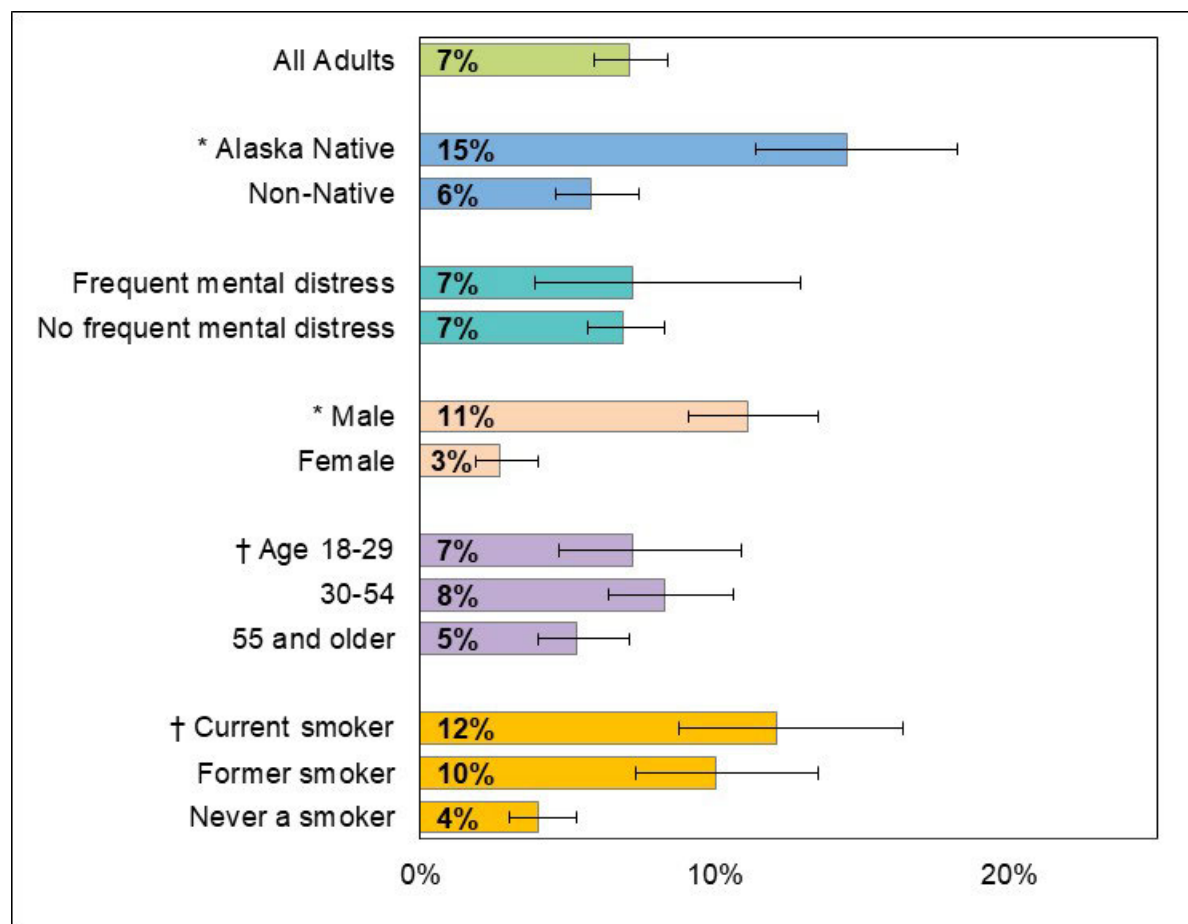
Source: Alaska BRFSS

Note: Question about SLT use in Alaska includes the variant known as *iqmik* (see Introduction of this report).

- Adult use of smokeless tobacco (SLT) in Alaska increased significantly from 2011 to 2020, rising from 6% in 2011 to 7% in 2020.
- Although a national source of comparable SLT trend data is not available, the questions used in the National Health Interview Survey (NHIS) are similar to the BRFSS questions. In 2020, NHIS data show that nationally, 2% of U.S. adults and 5% of adult men currently used SLT,¹³ suggesting that Alaska SLT use may be greater than in the general U.S. population.
- Based on the most recent percentage of adults who use smokeless tobacco, there are almost 39,000 adults in Alaska who are at risk for poor health outcomes due to smokeless tobacco products.

¹³ Cornelius ME, Loretan CG, Wang TW, Jamal A, Homa DM. Tobacco Product Use Among Adults — United States, 2020. MMWR Morb Mortal Wkly Rep 2022; 71:397–405. DOI: <https://www.cdc.gov/mmwr/volumes/71/wr/pdfs/mm7111a1-H.pdf> Accessed June 23, 2022.

Figure 31. Percentage of Adults Who Currently Use Smokeless Tobacco by Selected Demographic Factors and Cigarette Smoking Status, Alaska, 2020



Source: Alaska BRFSS

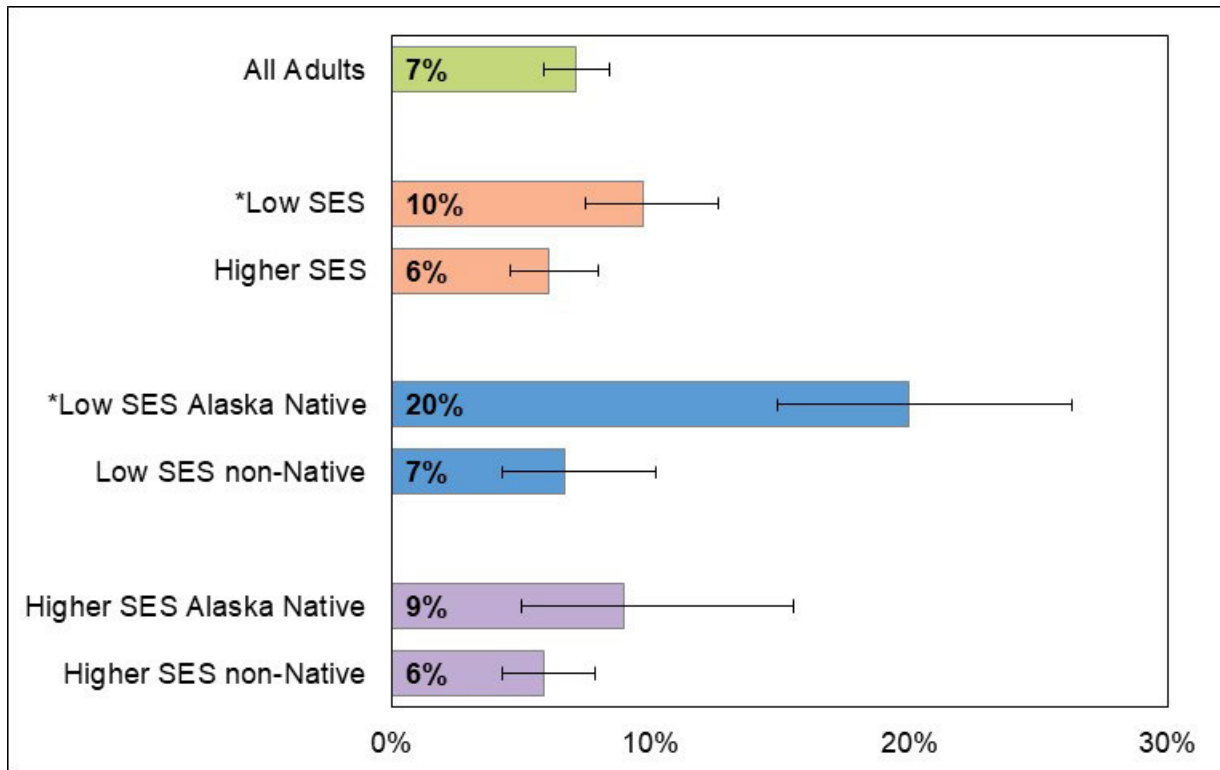
* Significant difference between the two sub-groups.

† Significant differences between sub-groups, as described below.

Note: Question about SLT use in Alaska includes the variant known as *iqmik* (see Introduction of this report).

- Use of smokeless tobacco (SLT) was significantly higher among Alaska Native adults than non-Native adults (15% vs. 6%).
- Men were significantly more likely than women to use SLT (11% vs. 3%).
- Middle-age adults (ages 30 to 54) were significantly more likely than older adults (age 55 and older) to use SLT.
- Adults who were current smokers or former smokers were significantly more likely to use SLT than were never smokers.

Figure 32. Percentage of Adults Who Currently Use Smokeless Tobacco by Socioeconomic Status (SES), Alaska, 2020



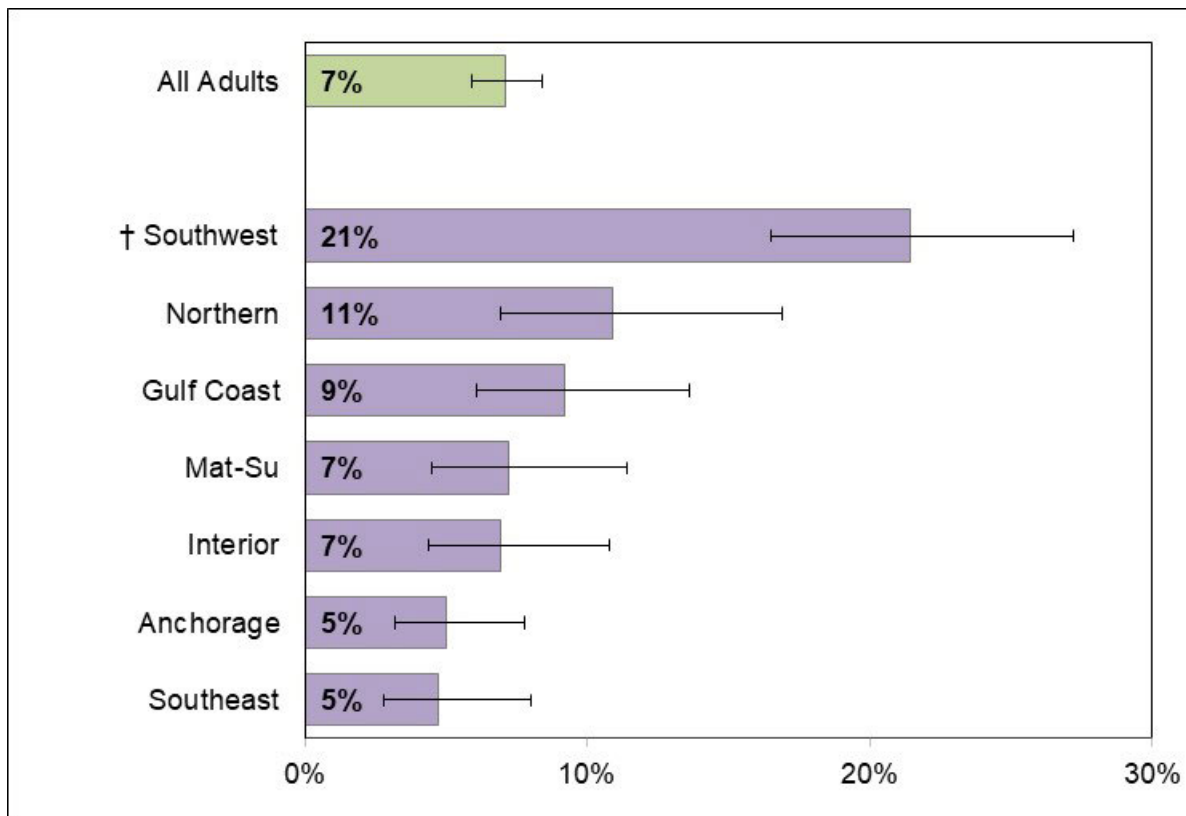
Source: Alaska BRFSS

* Significant difference between the two sub-groups.

"Low SES" is defined as household income at 185% or less of the Alaska Poverty Level Guideline. See Appendix A for more information.

- Use of smokeless tobacco (SLT) was significantly higher among adults with lower socioeconomic status (10% vs. 6%).
- Among adults with lower socioeconomic status, Alaska Native adults were significantly more likely to use SLT than were non-Native adults (20% vs. 7%).

Figure 33. Percentage of Adults Who Currently Use Smokeless Tobacco, by Region, Alaska, 2020



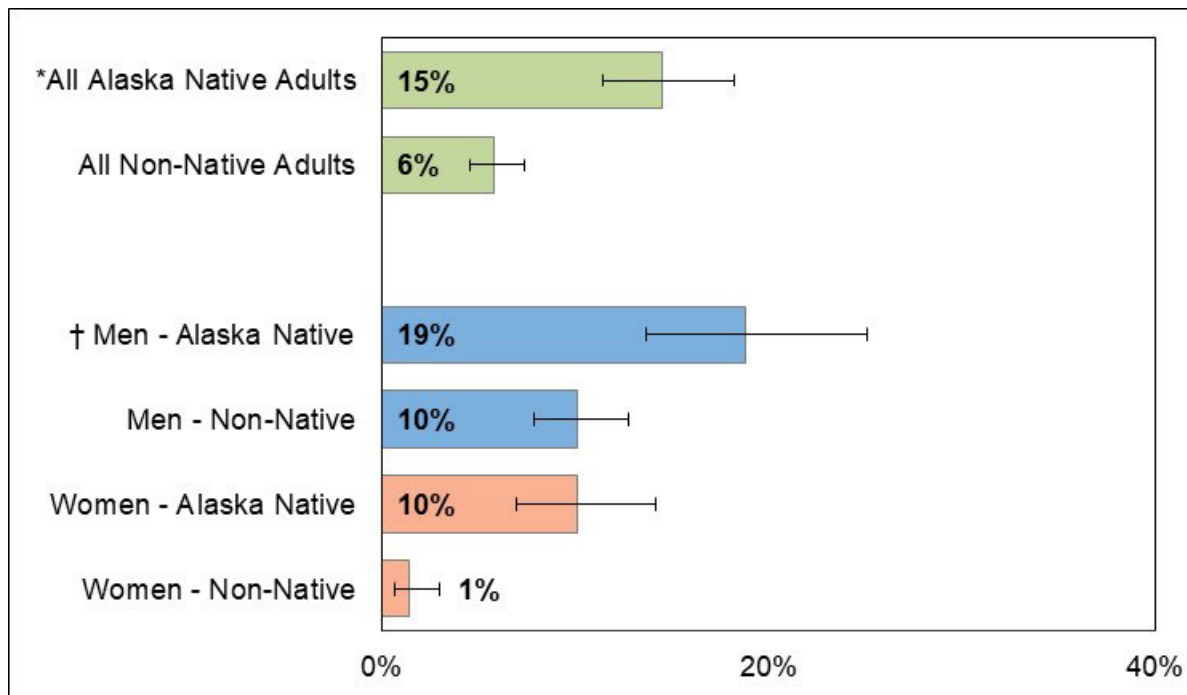
Source: Alaska BRFSS

† Significant differences between sub-groups, as described below.

Note: Question about SLT use in Alaska includes the variant known as *iqmik* (see Introduction of this report).

- Adults in the Southwest region were significantly more likely to use SLT than adults in all other regions (21% vs. 11% or less in any other region).
- Adults in the Northern region were significantly more likely to use SLT than adults in the Anchorage or Southeast regions (11% compared to 5%).

Figure 34. Percentage of Adults Who Currently Use Smokeless Tobacco, by Gender and Alaska Native Race, Alaska, 2020



Source: Alaska BRFSS

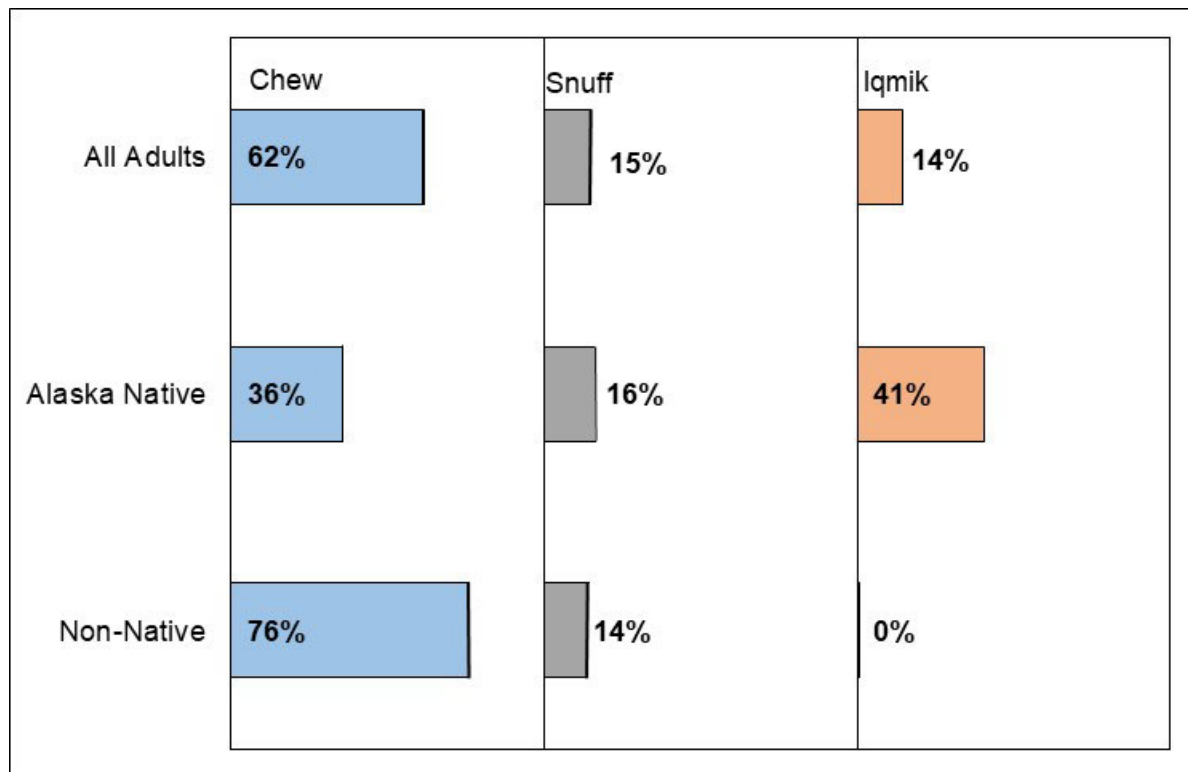
* Significant difference between the two sub-groups.

† Significant differences between sub-groups, as described below.

Note: Question about SLT use in Alaska includes the variant known as *iqmik* (see Introduction of this report).

- In 2020, as historically, SLT use among Alaska Native adults was higher than among non-Native adults (15% vs. 6%).
- In 2020, Alaska Native men were more likely to use SLT than non-Native men (19% vs. 10%).
- Alaska Native women were significantly more likely to use SLT than non-Native women (10% vs. 1%).

Figure 35. Single Type of Smokeless Tobacco Currently Used by Adults, Alaska, 2020



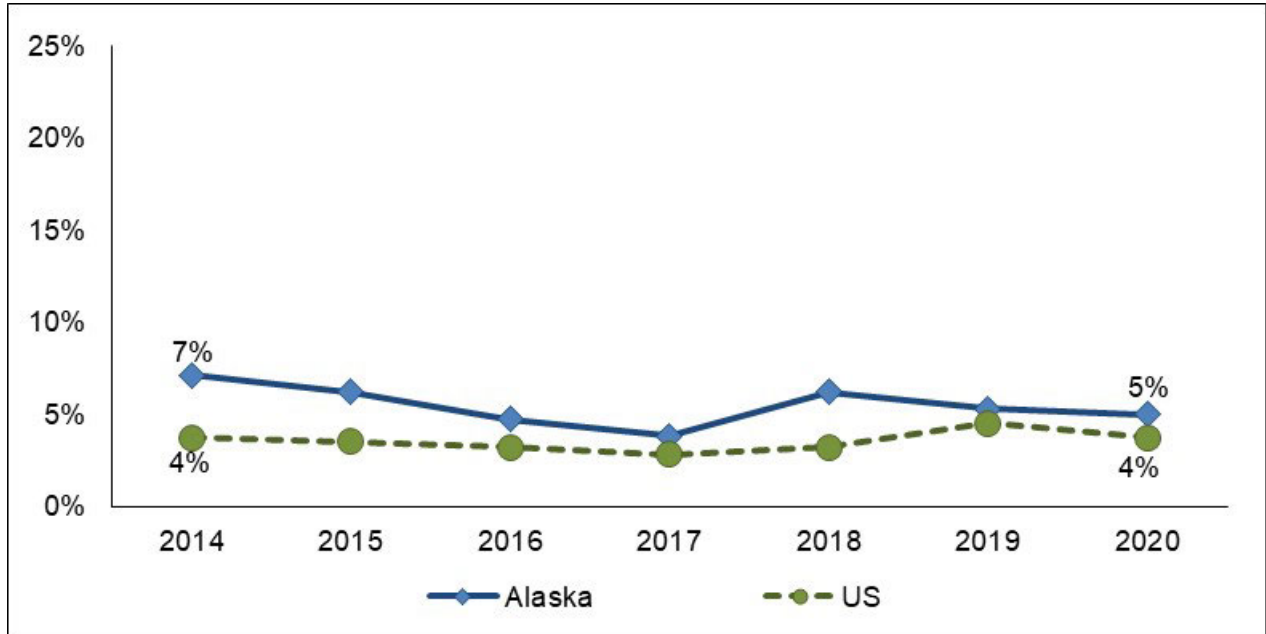
Source: Alaska BRFSS

Most adults who use smokeless tobacco (SLT) use a single type of smokeless product, although some (9% of adults who use SLT) do use more than one type (date not shown).

- In 2020, 62% of all Alaska adults who used SLT reported “chewing tobacco” as their only type of SLT use. However, the proportion using only chewing tobacco differs by race group. Among Alaska Native adults who used SLT, 36% reported using only chewing tobacco, compared to 76% of non-Native adults.
- Iqmik, also known as Blackbull, is an Alaska-specific SLT variant prepared by mixing chewing tobacco with the ash of a punk fungus (see Introduction of this report). Among the total population of adults who use SLT, 14% reported using iqmik as their only type of SLT. However, use by Alaska Native adults was greater than use by non-Native adults (41% vs. 0.2%). Iqmik is used primarily by Alaska Native people in the Southwest region of Alaska (see Figure 33).

E. *Electronic Vapor Product Use*

Figure 36. Percentage of Adults Who Currently Use Electronic Vapor Products, by Year, Alaska and US, 2014-2020



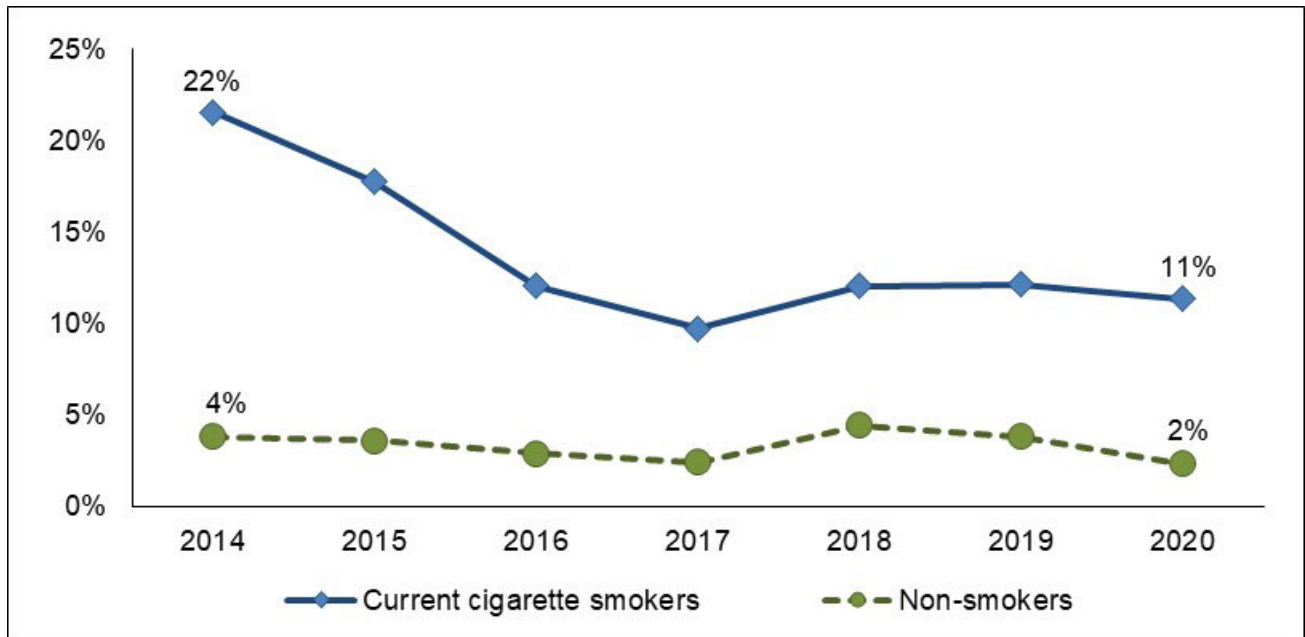
Source for AK data: Alaska BRFSS

Source for U.S. data 2014-2020: National Health Interview Survey (see Appendix A).

Electronic vapor products are battery-operated nicotine devices that heat a liquid solution into a vapor which is inhaled. Electronic vapor products include e-cigarettes, vape pipes, vaping pens, e-hookahs, and hookah pens.

- Electronic vapor product use among adults in Alaska has not changed significantly since 2014. The percentage of adults who used electronic vapor products was 7% in 2014 and 5% in 2020.
- During this same time period, vape use among adults nationwide remained unchanged at 4% in 2014 and 2020.
- Based on the most recent percentage of adults who use electronic vapor products, there are more than 27,400 adults in Alaska who are at risk for poor health outcomes due to electronic vapor products.

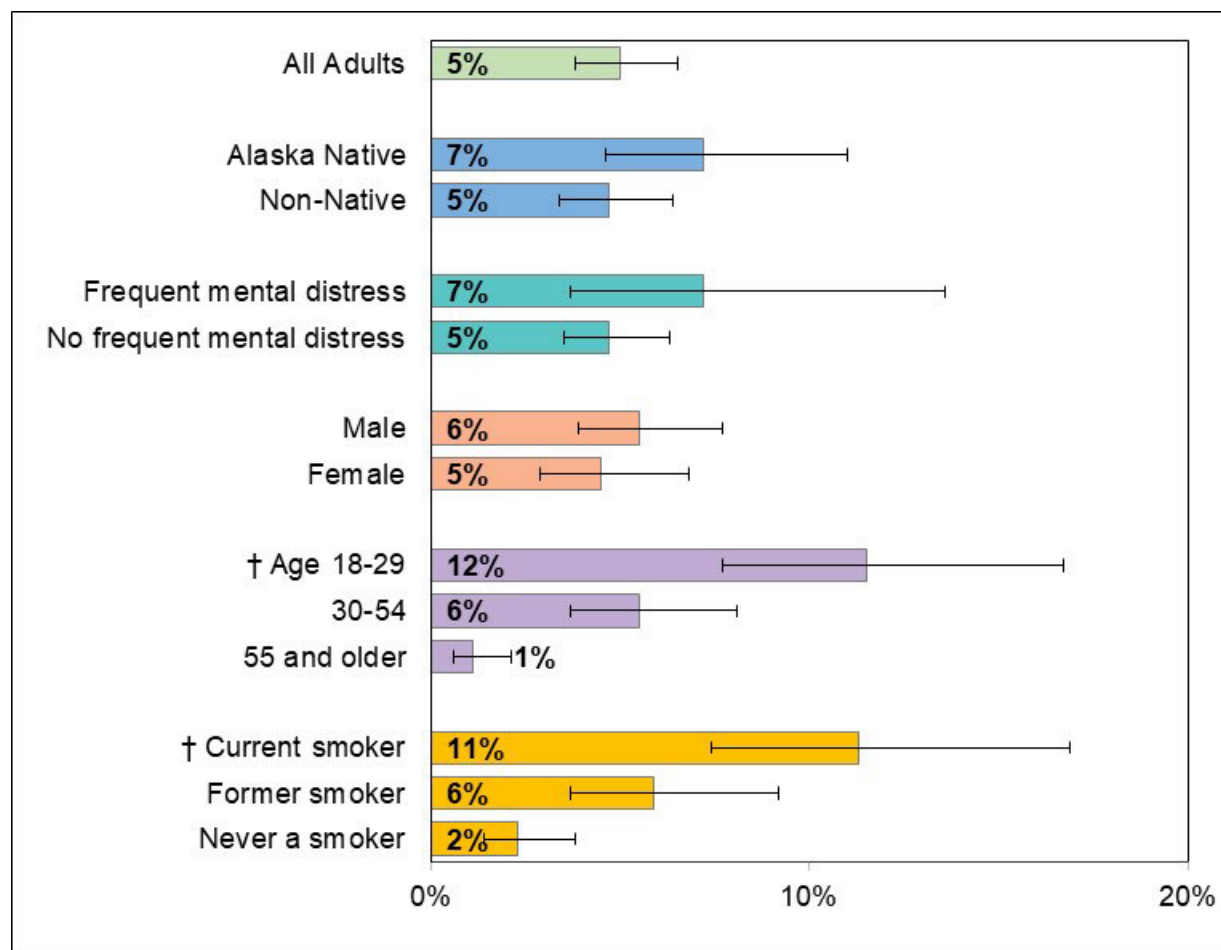
Figure 37. Percentage of Adults Who Currently Use Electronic Vapor Products, by Year and Combustible Cigarette Smoking Status, Alaska, 2014-2020



Source: Alaska BRFSS

- Among adults who currently smoke cigarettes, the percentage who also use electronic vapor products significantly decreased from 22% in 2014 to 11% in 2020.
- Among adults who do not smoke cigarettes, the percentage who use electronic vapor products did not change significantly from 2014 to 2020.

Figure 38. Percentage of Adults Who Currently Use Electronic Vapor Products, by Selected Demographic Factors, Alaska, 2020

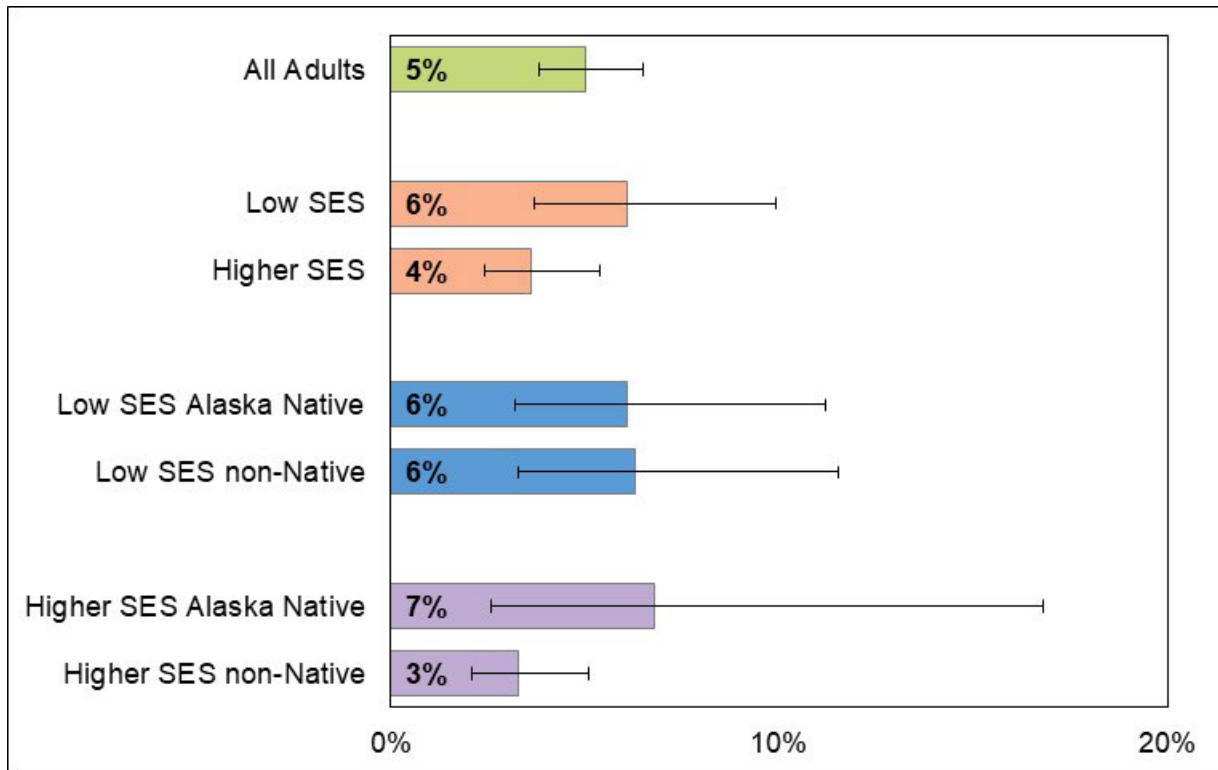


Source: Alaska BRFSS

† Significant differences between sub-groups, as described below.

- Alaskans ages 55 and older were significantly less likely than adults ages 18-54 to use electronic vapor products; additionally, those age 30 to 54 were also significantly less likely than younger adults (age 18 to 29) to vape.
- Adults who currently smoke combustible cigarettes were significantly more likely to use electronic vapor products than both adults who formerly and never smoked (11% vs. 6% and 2%). Adults who were former smokers were significantly more likely to use electronic vapor products than were adults who were never smokers.
- There were no significant differences in electronic vapor product use among adults by Alaska Native race, frequent mental distress, or gender.

Figure 39. Percentage of Adults Who Use E-Cigarettes or Other Vapor Products by Socioeconomic Status (SES), Alaska, 2020

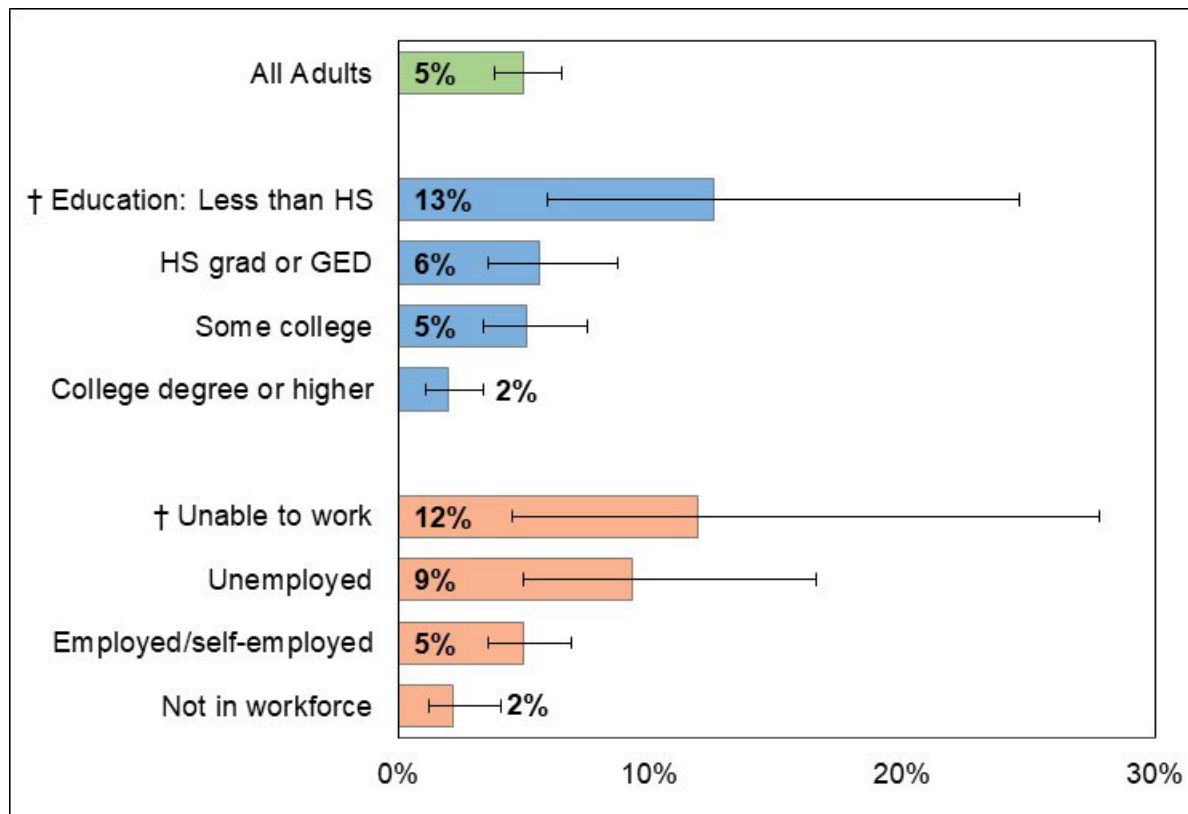


Source: Alaska BRFSS

“Low SES” is defined as household income at 185% or less of the Alaska Poverty Level Guideline. See Appendix A for more information.

- There were no significant differences among adults who used e-cigarettes or other vapor products regardless of socioeconomic status. This was true as well for Alaska Native adults and non-Native adults in both the lower and higher socioeconomic groups.

Figure 40. Percentage of Adults Who Currently Use Electronic Vapor Products, by Formal Education Status and Employment Status, Alaska, 2020

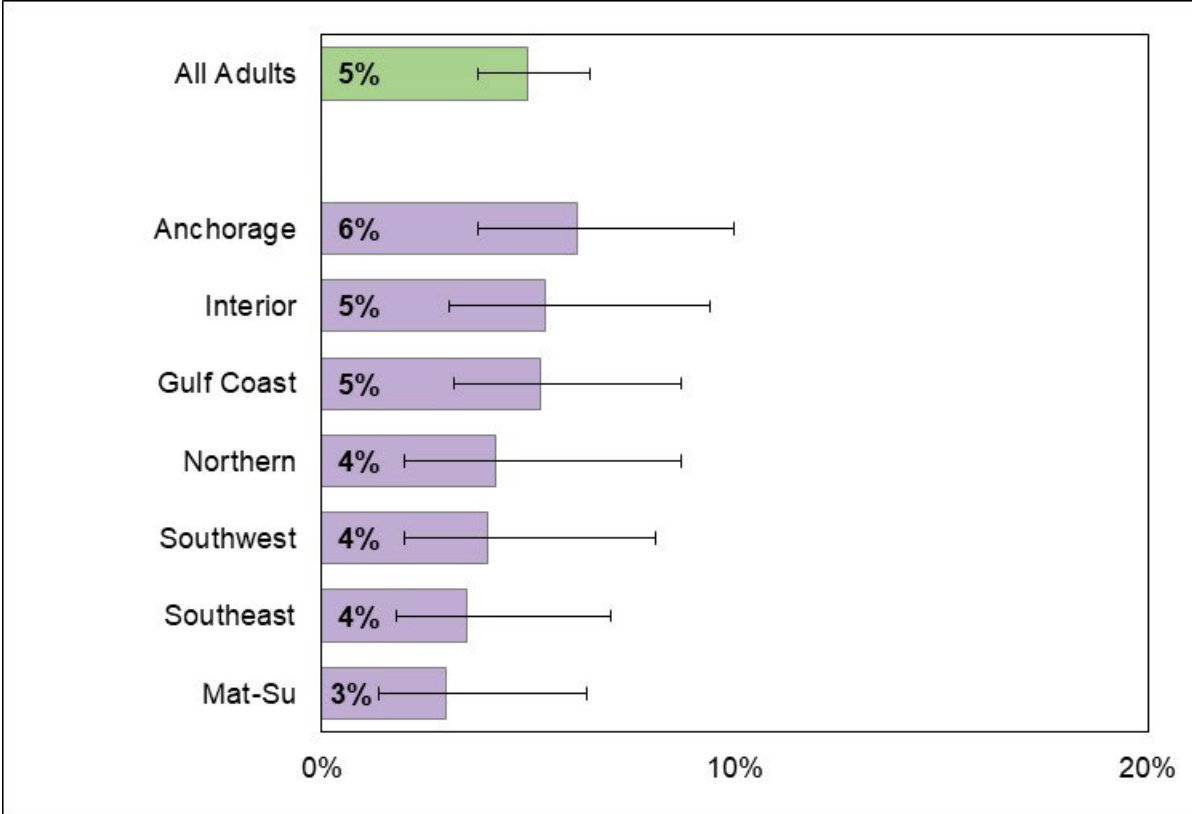


Source: Alaska BRFSS

† Significant differences between sub-groups, as described below.

- In 2020, adults with a college degree or higher were significantly less likely to use electronic vapor products than were adults with some college education, adults with a high school diploma, or those with less than a high school diploma.
- Adults who were not in the workforce (students, homemakers, retirees) were significantly less likely to use electronic vapor products than were adults who were employed or unemployed.

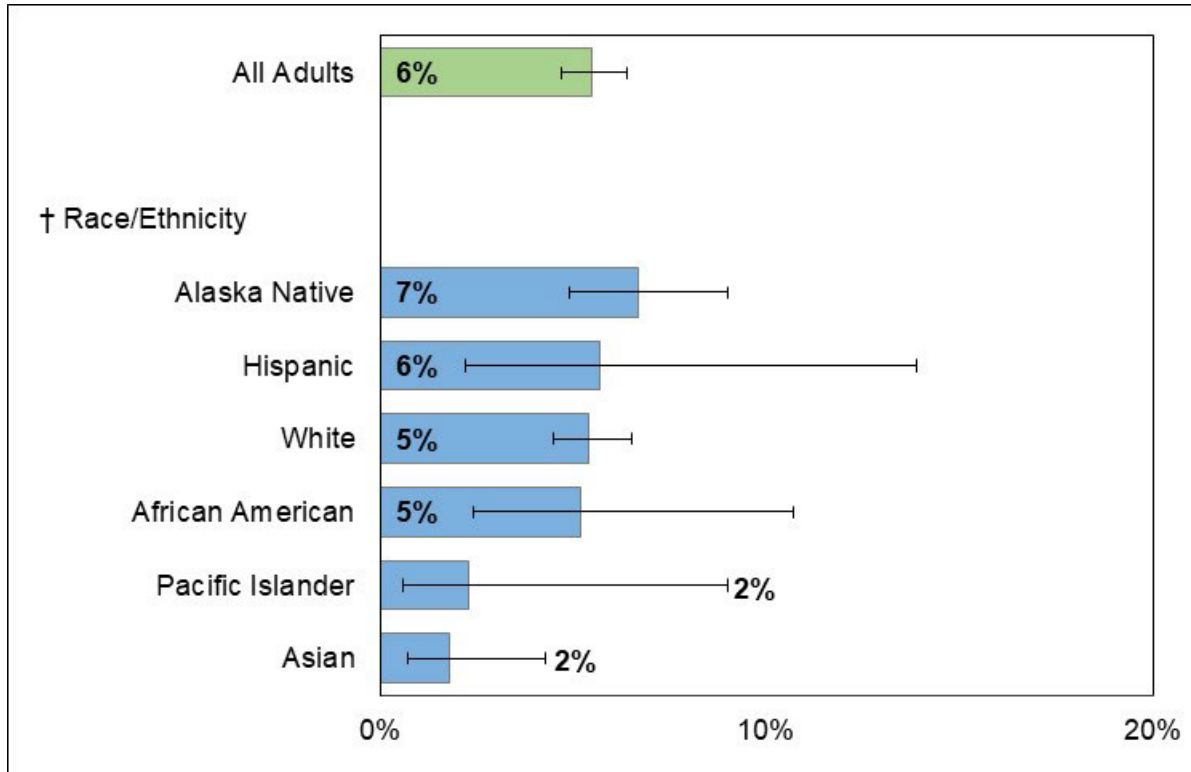
Figure 41. Percentage of Adults Who Currently Use Electronic Vapor Products, by Region, Alaska, 2020



Source: Alaska BRFSS

- In 2020, there were no significant differences in the percentage of adults who used electronic vapor products by region.

Figure 42. Percentage of Adults Who Currently Use Electronic Vapor Products, by Race/Ethnicity, Alaska, 2018-2020

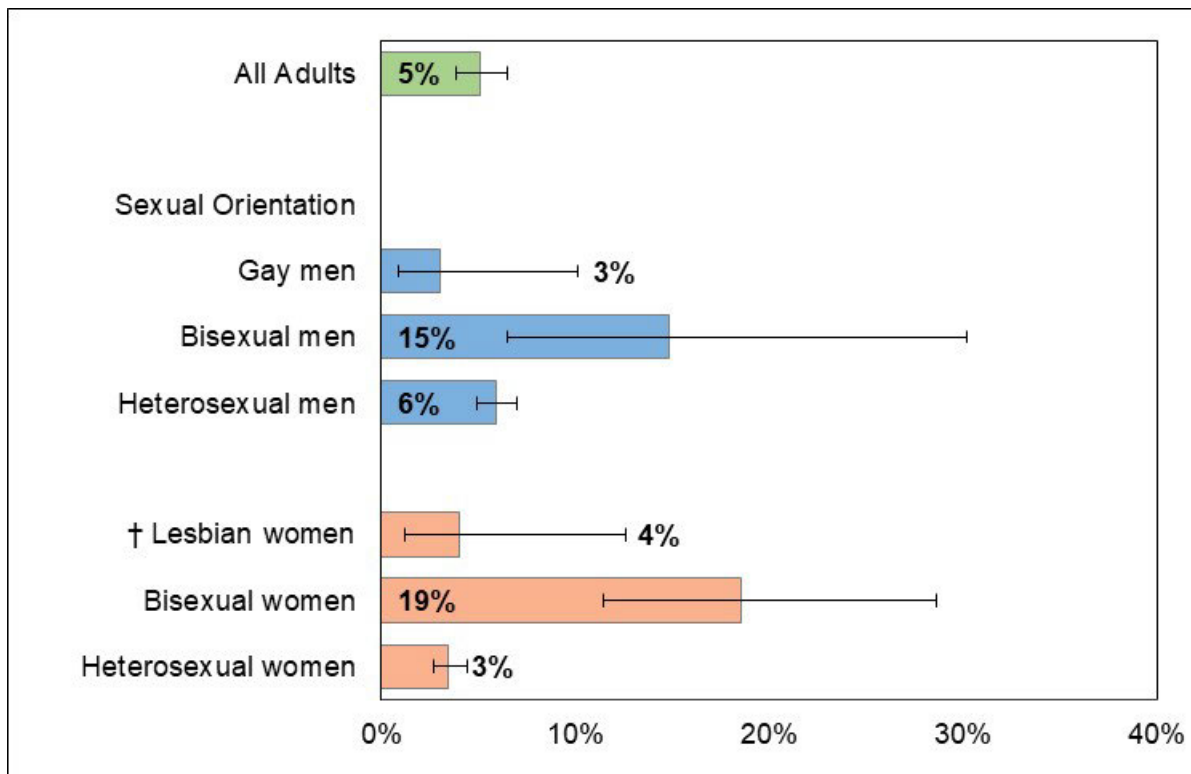


Source: Alaska BRFSS

† Significant differences between sub-groups, as described below.

- In 2018-2020, Alaska Native adults were significantly more likely to use electronic vapor products than were Asian and Pacific Islander adults.
- White adults were significantly more likely to use electronic vapor products than were Asian adults (5% compared to 2%).

Figure 43. Percentage of Adults Who Currently Use Electronic Vapor Products, by Gender and Sexual Orientation, Alaska, 2017-2020



Source: Alaska BRFSS

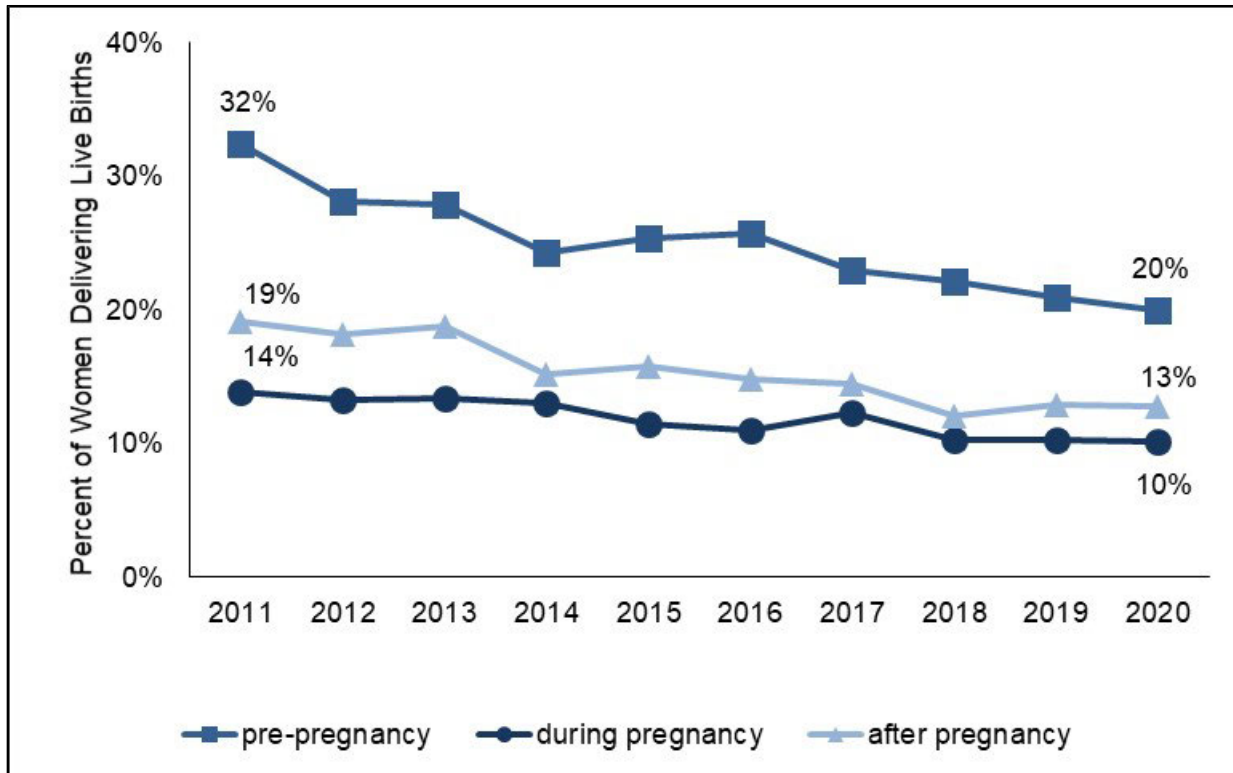
† Significant differences between sub-groups, as described below.

For 2017-2020 combined:

- Women who identified as bisexual were significantly more likely to use electronic vapor products than both lesbian and heterosexual/straight women (19% vs. 4% and 3%).
- There were no significant differences among men by sexual orientation.

V. Tobacco Use During Pregnancy

Figure 44. Percentage of Alaska Mothers Who Smoked Cigarettes before, during, or after Pregnancy, by Year, Alaska, 2011-2020

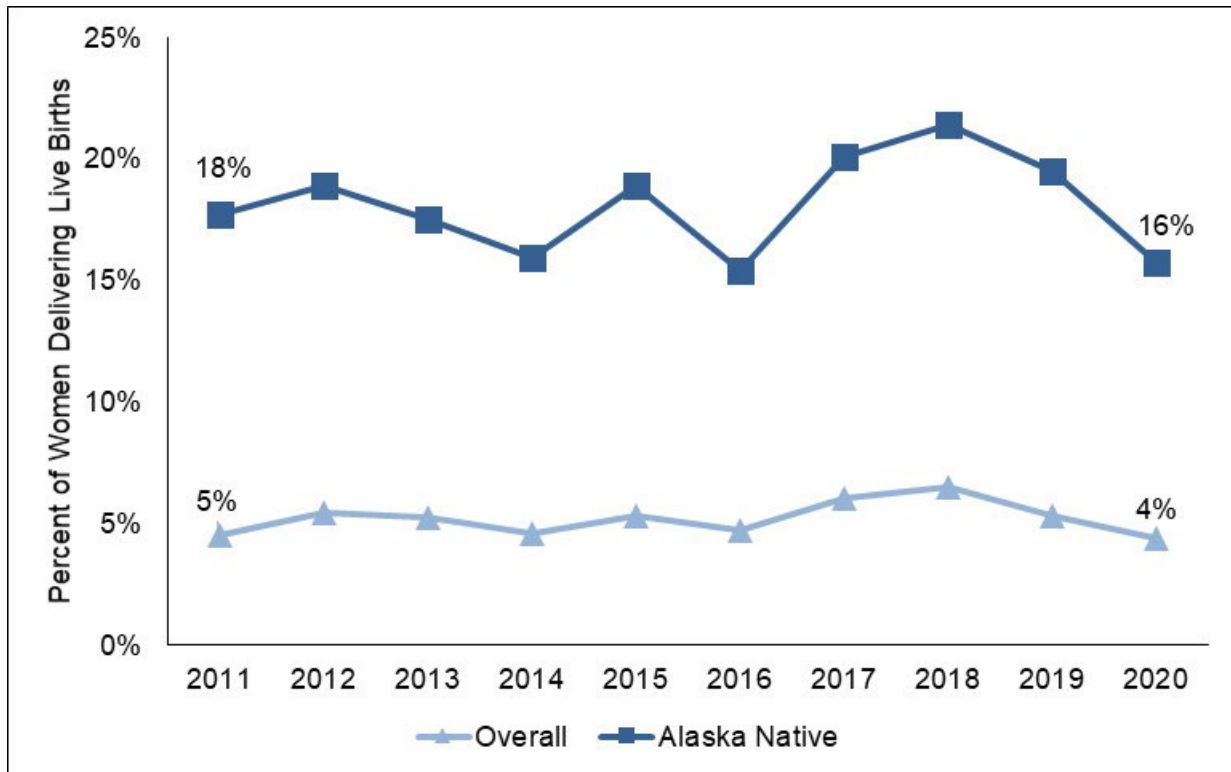


Source: Alaska PRAMS

Definitions: “Pre-Pregnancy” or “Before pregnancy” is 3 months before pregnancy; “During pregnancy” is during the last 3 months prior to delivery; “After pregnancy” is approximately 4 months after delivery.

- Among women who recently delivered a child, smoking before pregnancy decreased significantly during the past 10 years, from 32% in 2011 to 20% in 2020.
- Smoking during the last 3 months of pregnancy has also decreased significantly during the past 10 years, from 14% in 2011 to 10% in 2020.
- Smoking after pregnancy (about 4 months after the birth of a child) has also decreased significantly during the same time period, from 19% in 2011 to 13% in 2020.
- Data in 2020 suggest that about half of mothers are quitting smoking during pregnancy: pre-pregnancy smoking was 20%, dropping to 10% during pregnancy. Some mothers appear to take up smoking again after delivery: 13% smoke after delivery vs. 10% during pregnancy. However, smoking immediately after delivery does not return to the same level as pre-pregnancy smoking.

Figure 45. Percentage of Alaska Mothers Who Used Smokeless Tobacco (SLT) during Pregnancy, by Year and Alaska Native Race, Alaska, 2011-2020

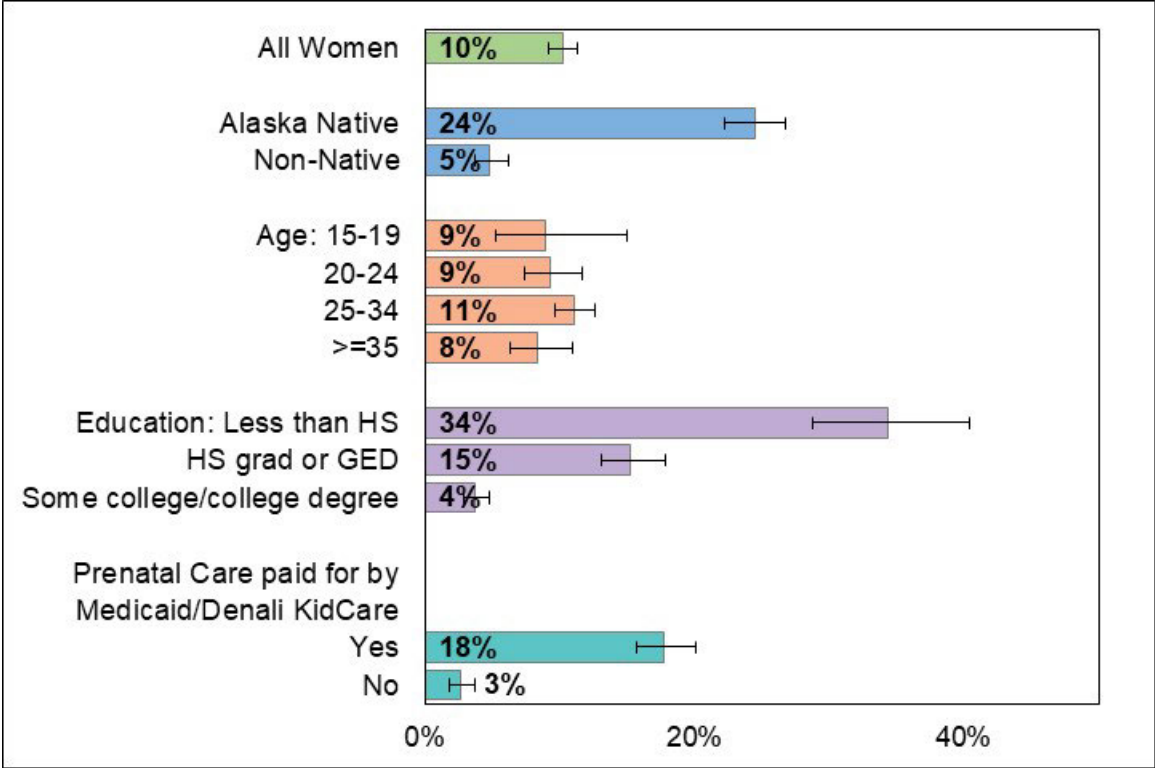


Source: Alaska PRAMS

Note: Smokeless tobacco (SLT) includes chew, snuff, snus, and iqmik, a unique Alaska SLT variant (see report Introduction). Questions about use of SLT during pregnancy cover the entire prenatal period.

- The percentage of all Alaska women who used smokeless tobacco (SLT) during pregnancy has remained at around 5% from 2011 to 2020.
- Prenatal SLT use among Alaska Native women has been consistently higher than for women overall.
- The prevalence of SLT use during pregnancy among Alaska Native women did not change significantly during this time period: the percentage who used SLT during pregnancy was 18% in 2011 and 16% in 2020.

Figure 46. Percentage of Alaska Mothers Who Smoked Cigarettes during Pregnancy by Selected Demographic Factors, Alaska, 2018-2020

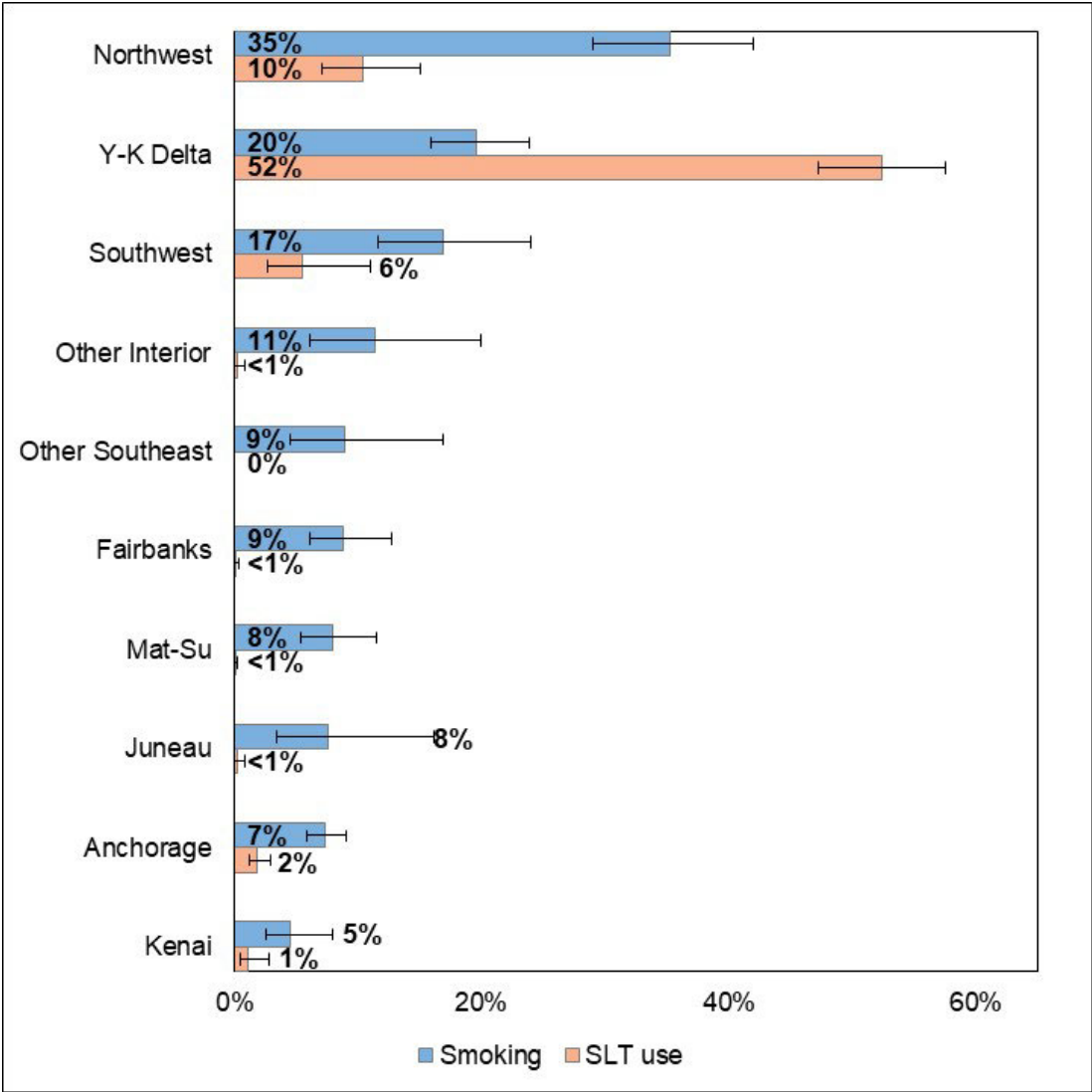


Source: Alaska PRAMS

“Smoking during pregnancy” is defined as having smoked during the last 3 months of pregnancy.

- During 2018-2020 combined, Alaska Native mothers were more likely to smoke during their pregnancy than were non-Native mothers (24% vs. 5%).
- In 2018-2020, mothers who had completed less formal education were more likely to smoke during their pregnancies than those who had completed more: 34% of mothers with less than a high school (HS) education smoked, compared to 15% of mothers who had graduated or had a GED. Smoking during pregnancy was lowest among women who had attended college (4%).
- Mothers who had their prenatal care paid for by Medicaid or Denali KidCare were more likely to smoke during pregnancy (18% vs. 3%). These programs support people with lower incomes, so enrollment in them is a proxy measure for low socioeconomic status (SES).

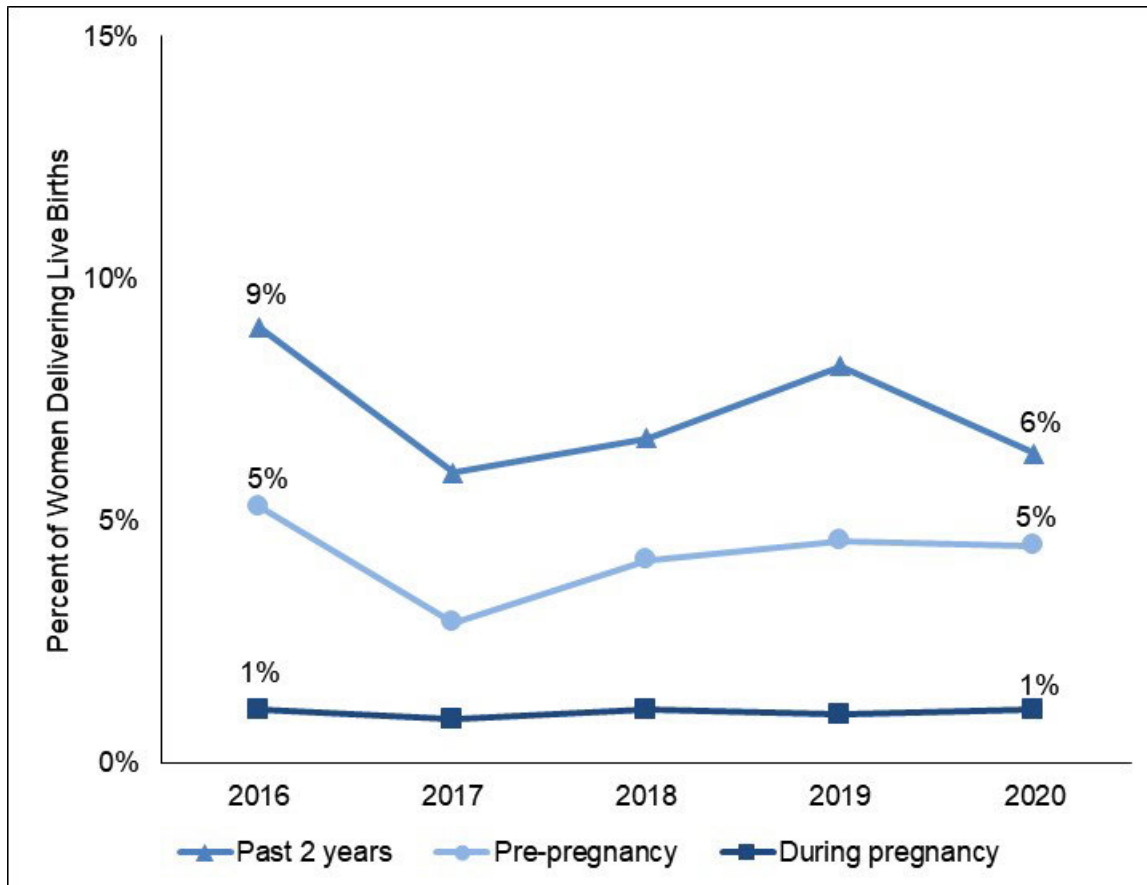
Figure 47. Percentage of Alaska Mothers Who Smoked Cigarettes or Who Used Smokeless Tobacco (SLT) during Pregnancy, by Behavioral Health Systems Region, Alaska, 2018-2020



Source: Alaska PRAMS
 Behavioral Health Systems Regions are not the same as Public Health Regions. See Appendix A for map.
 “Smoking during pregnancy” is defined as having smoked cigarettes during the last 3 months of pregnancy.
 “Smokeless tobacco (SLT) use during pregnancy” means using chew, snuff, snus, or iqmik at any time during pregnancy. *Note: Iqmik is a unique SLT variant in Alaska (see Introduction of this report).*

- For the period of 2018-2020, prenatal smoking was higher in the Northwest region than in any other region; 35% of mothers in that region reported smoking cigarettes during the last 3 months of pregnancy, compared to between 5% and 20% in the other regions.
- In the Y-K Delta, 52% of mothers reported using SLT during pregnancy, which was higher than in any other region. Use of iqmik occurs primarily in this region.
- Although lower than the Y-K Delta region, prenatal SLT use was somewhat higher in the Northwest (10%) and Southwest (6%) regions, in comparison to other regions.

Figure 48. Percentage of Alaska Mothers Who Used E-Cigarettes or Other Electronic Nicotine Products before Pregnancy and during Pregnancy, Alaska, 2016-2020



Source: Alaska PRAMS

Pre-pregnancy is defined as 3 months prior to pregnancy and during pregnancy is defined as the last 3 months of pregnancy.

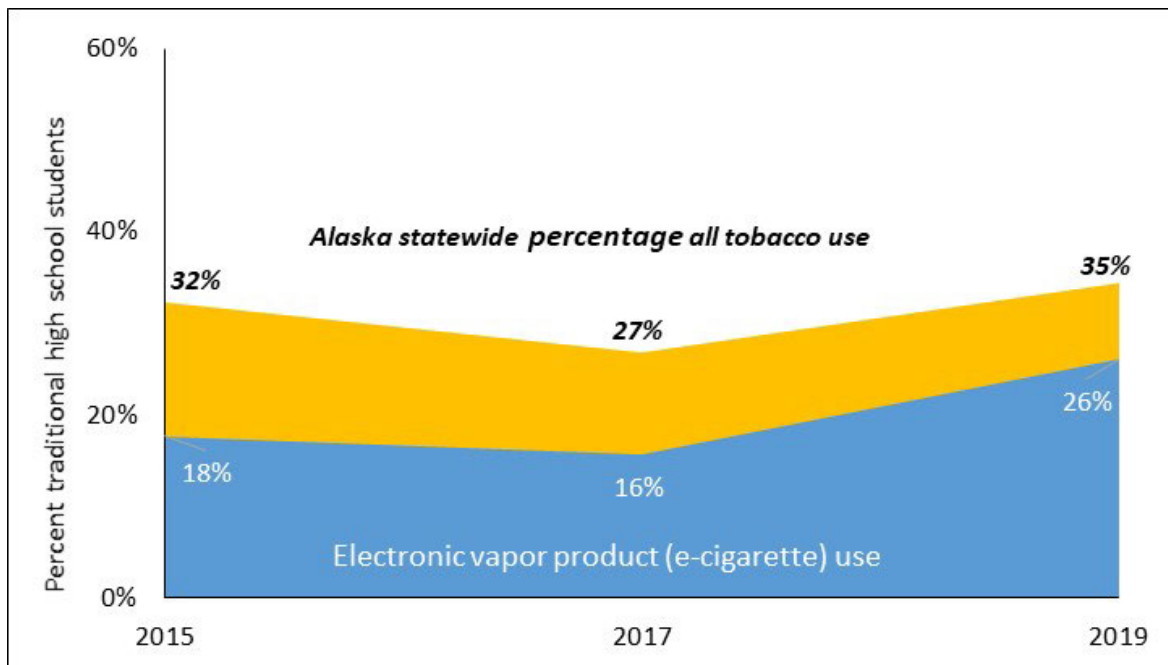
- There was no significant change from 2016-2020 in the prevalence of e-cigarette or vapor product use among Alaska mothers in the 2 years prior to pregnancy, pre-pregnancy (3 months before pregnancy), or during pregnancy (last 3 months of pregnancy).
- In 2020, fewer mothers used e-cigarettes or other vapor products during the last three months of pregnancy as compared to three months pre-pregnancy or during the past two years during 2020 (1% compared to 5% and 6%, respectively).

VI. Youth Tobacco Use

Healthy Alaskans 2030

Reducing the use of any tobacco or nicotine product among adolescents is an important priority in the State of Alaska. *Healthy Alaskans 2030*¹⁴ includes the following indicator that is monitored to assess progress: *Reduce the percentage of adolescents who currently smoke cigarettes or use electronic vapor products, smokeless tobacco, or other tobacco products.*

Figure 49. Any Tobacco Use among High School Students, Alaska, 2015-2019



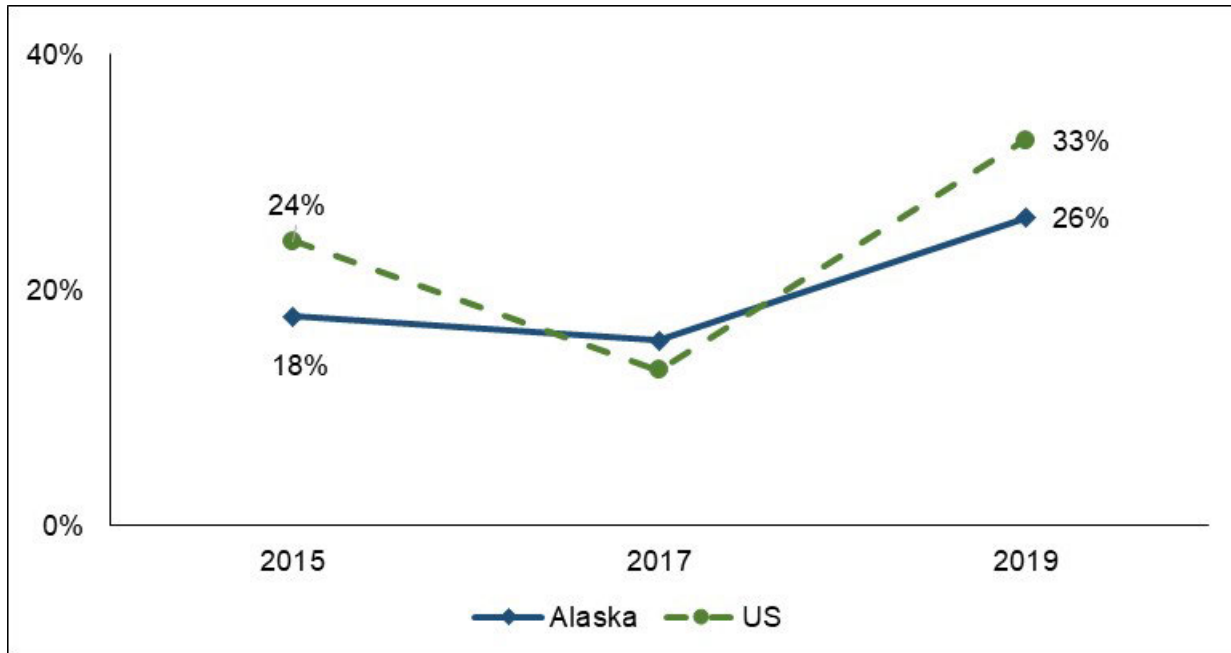
Source: Alaska YRBS, state sample of traditional high school students. Includes the percentage of students who used cigarettes, smokeless tobacco (including iqmik), electronic vapor products, or cigars in the past 30 days. Questions about electronic vapor product use—with example products, such as Vuse and blu, listed in the instructions—were added to the Alaska YRBS in 2015. JUUL was added as an example product in 2019.

- This measure is reported beginning in 2015, the first year that questions about electronic vapor products were added to the Alaska YRBS.
- The percentage of high school students who currently vape increased statewide, from 18% in 2015 to 26% in 2019.
- Between 2015 and 2019, the percentage of high school students who currently used any tobacco or nicotine product statewide varied, but the change over time is non-significant (32% in 2015 vs. 35% in 2019).
- Based on the most recent percentage of students who use tobacco or nicotine products, there are more than 13,300 students in Alaska who are at risk for poor health outcomes due to tobacco or nicotine products. This includes 9,900 students who are at risk for poor health outcomes due to vaping.

¹⁴ For more information about Healthy Alaskans 2030, see <https://www.healthyalaskans.org/>

A. *Electronic Vapor Product Use*

Figure 50. Percentage of High School Students Who Currently Use Electronic Vapor Products, Alaska and US, 2015-2019



Source: Alaska YRBS and National YRBS

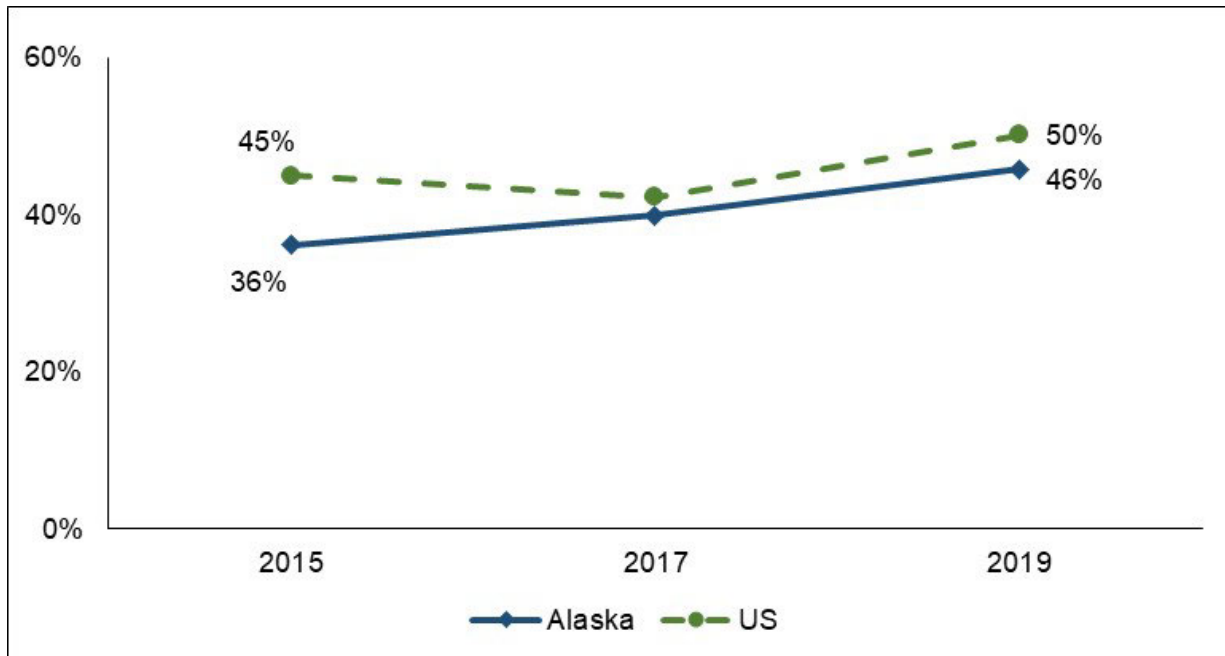
“Current use” among youth is defined as using on one or more of the past 30 days.

Electronic vapor products are battery-operated nicotine devices that heat a liquid solution containing nicotine, flavorings and other chemicals into an aerosol that is inhaled. The YRBS asks about these products with the following introduction: “The next questions ask about electronic vapor products, such as JUUL, Vuse, MarkTen, and blu. Electronic vapor products include e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods.”

The Alaska YRBS has included a question about electronic vapor product use since 2015.

- Youth electronic vapor product use in Alaska increased significantly from 18% in 2015 to 26% in 2019.
- Nationally, the proportion of high school students who used electronic vapor products increased from 24% in 2015 to 33% in 2019.
- Based on the most recent percentage of students who use tobacco or nicotine products, there are more than 9,900 students in Alaska who are at risk for poor health outcomes due to electronic vapor products.

Figure 51. Percentage of High School Students Who Ever Used Electronic Vapor Products, Alaska and US, 2015-2019



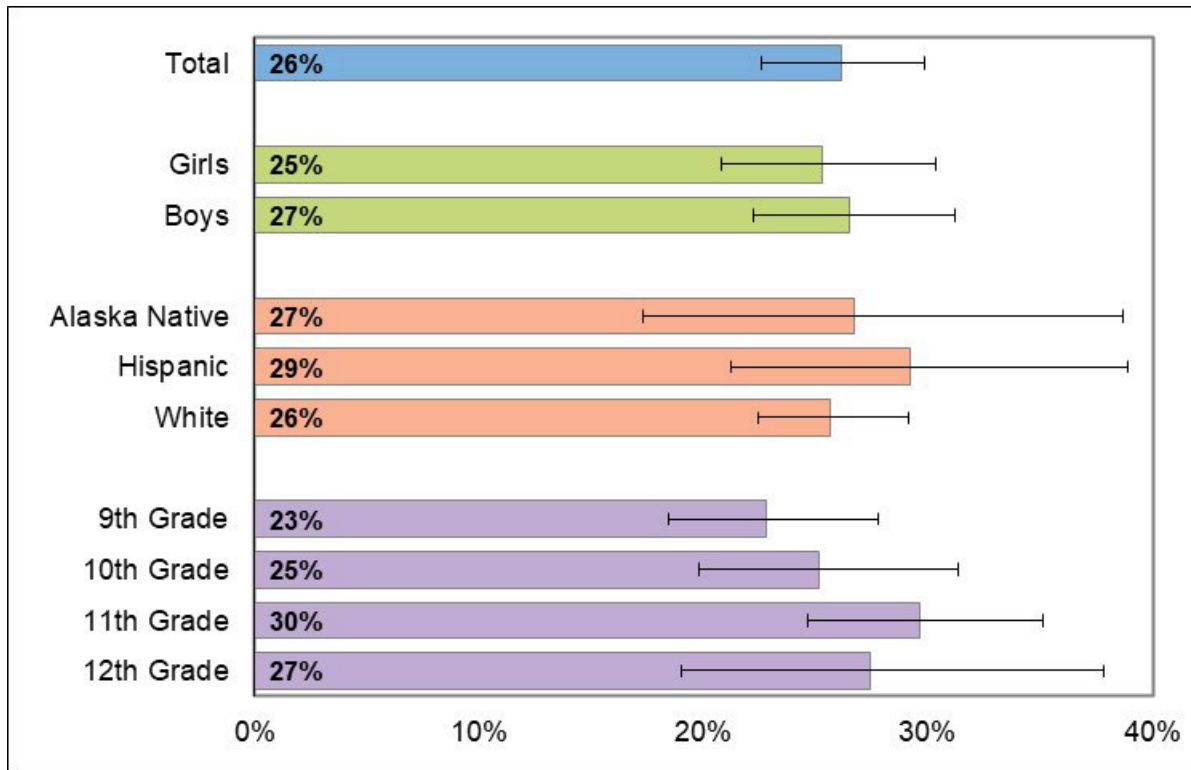
Source: Alaska YRBS and National YRBS

- Overall, the percentage of Alaska high school students who ever tried electronic vapor products increased significantly between 2015 and 2019 (36% vs. 46%).
- Nationally, the percentage also increased, from 45% in 2015 to 50% in 2019.

Among specific populations in Alaska (data not shown):

- The percentage of female students who ever tried electronic vapor products increased significantly between 2015 and 2019 (32% vs. 47%); the percentage of male students who had ever tried electronic vapor products did not change significantly.
- The percentage of both Alaska Native students (33% vs. 50%) and White non-Hispanic students (35% vs. 43%) who ever tried electronic vapor products increased significantly between 2015 and 2019.

Figure 52. Percentage of High School Students Who Currently Use Electronic Vapor Products, by Selected Demographic Factors, Alaska, 2019

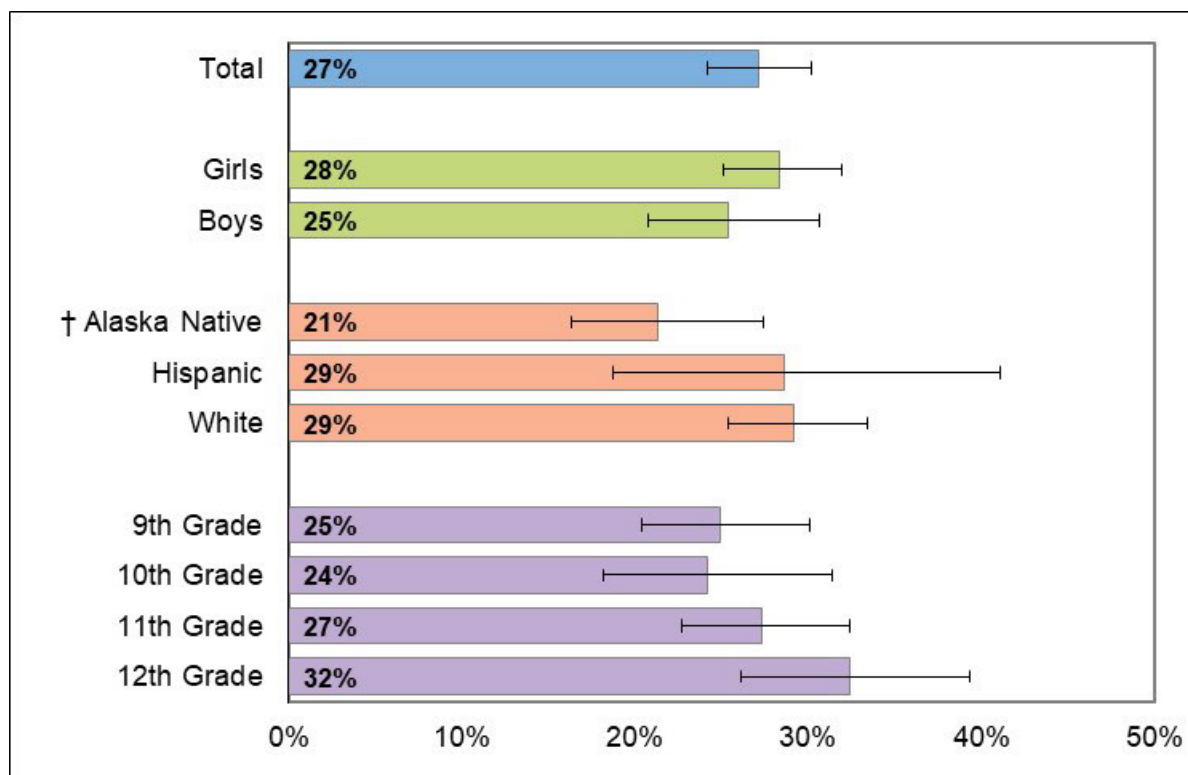


Source: Alaska YRBS

“Current use” among youth is defined as using on one or more of the past 30 days.

- 26% of high school students reported using an electronic vapor product in the past 30 days.
- There were no significant differences in electronic vapor product use by gender, race/ethnicity group, or grade.

Figure 53. Percentage of High School Students Who Think People take a Great Risk Harming Themselves if they use Electronic Vapor Products Every Day, by Selected Demographic Factors, Alaska, 2019

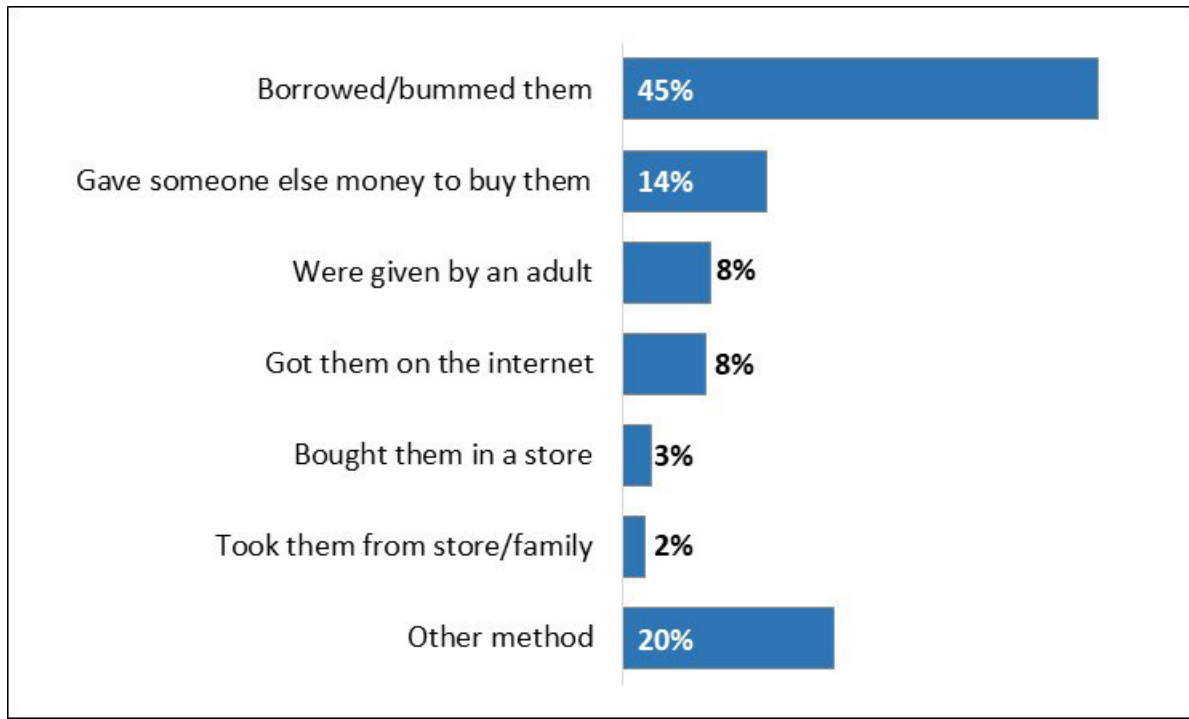


Source: Alaska YRBS

† Significant difference between the Alaska Native and White sub-groups.

- In 2019, Alaska Native students were significantly less likely than White non-Hispanic students to think that people take a great risk in using electronic vapor products daily (21% vs. 29%).
- There were no significant differences in perceived harm of electronic vapor product use between genders or grades.

Figure 54. Usual Method of Getting Electronic Vapor Products in the Past 30 Days among High School Students Who Currently Use Electronic Vapor Products, Alaska, 2019



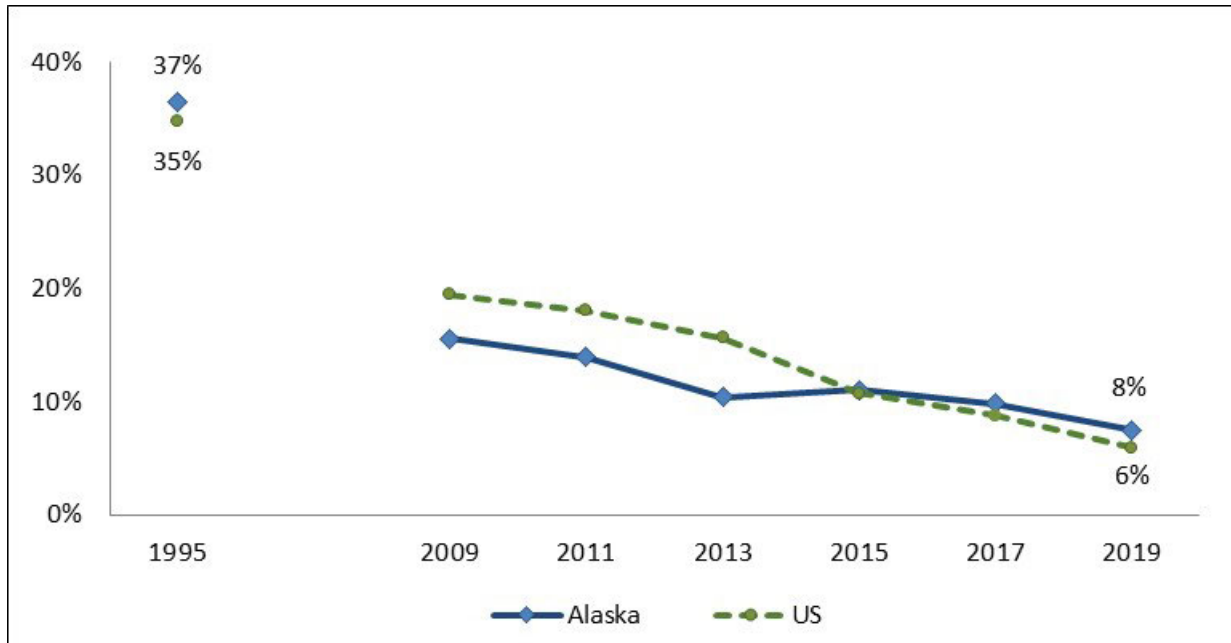
Source: Alaska YRBS

“Current use” among youth is defined as using on one or more of the past 30 days.

- In 2019, more than two-thirds of high school students who currently used electronic vapor products reported that they usually got their products with help from other people. This includes 45% who usually borrowed or “bummed” them and 14% who gave money to someone else to buy them, and 8% who were given e-vape products by an adult.
- 8% of high school students who used electronic vapor products said that they usually got them online.
- Few high school students who used electronic vapor products said that they bought them from a store (3%) or took them from a store or family member (2%).
- About one in five (20%) high school students who used electronic vapor products said that they got them some other way.

B. Cigarette Use

Figure 55. Percentage of High School Students Who Currently Smoke Cigarettes, Alaska and US, 1995, 2009 – 2019



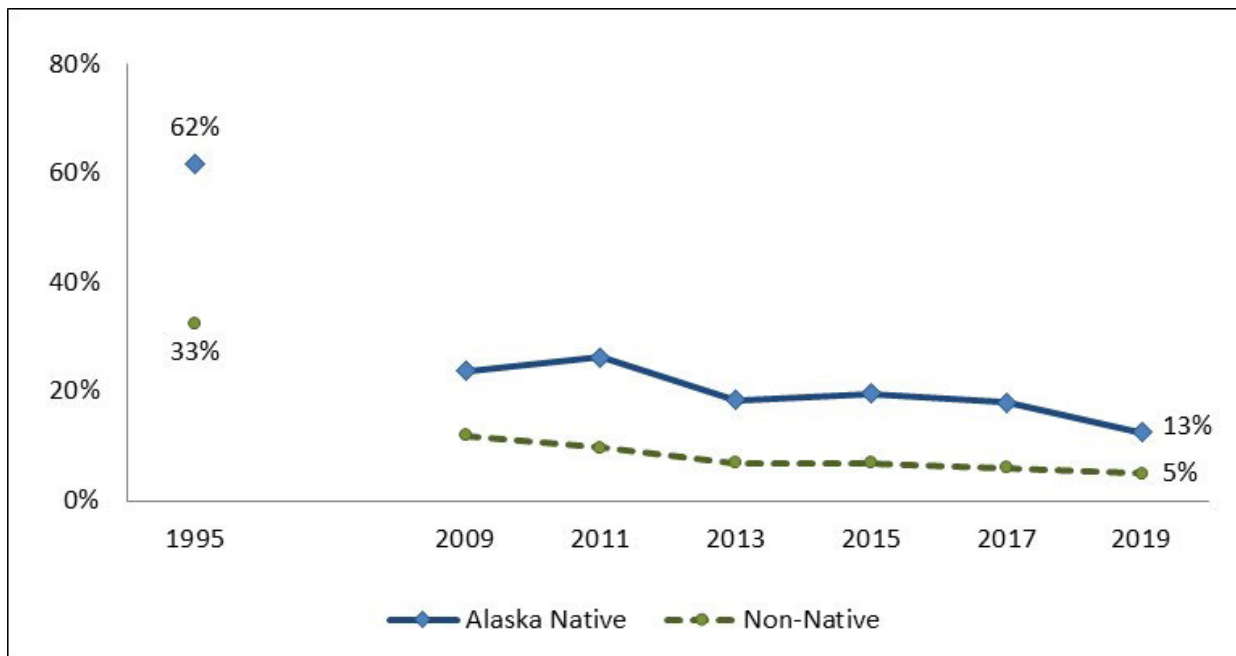
Source: Alaska YRBS and National YRBS

“Current smoking” among youth is defined as smoking on one or more of the past 30 days.

- Smoking has decreased nationally and in Alaska since 1995. Smoking among Alaska high school students fell significantly from 37% in 1995 to 8% in 2019.
- Smoking has decreased significantly among high school students in Alaska during the past 10 years, from 16% in 2009 to 8% in 2019.
- Based on the most recent percentage of students who smoke cigarettes, there are more than 3,000 students in Alaska who are at risk for poor health outcomes due to smoking cigarettes.
- Reductions in student smoking prevalence since 1995, which was just prior to the start of Alaska’s Tobacco Prevention and Control Program, translate to nearly 12,000 fewer youth who smoke in the state.¹⁵

¹⁵ Had the youth smoking prevalence in 2019 been 36.5% (prevalence of youth smoking in 1995) there would be an estimated 11,900 more Alaska youth who smoke in 2019.

Figure 56. Percentage of High School Students Who Currently Smoke Cigarettes, by Alaska Native Race, Alaska, 1995, 2009 – 2019

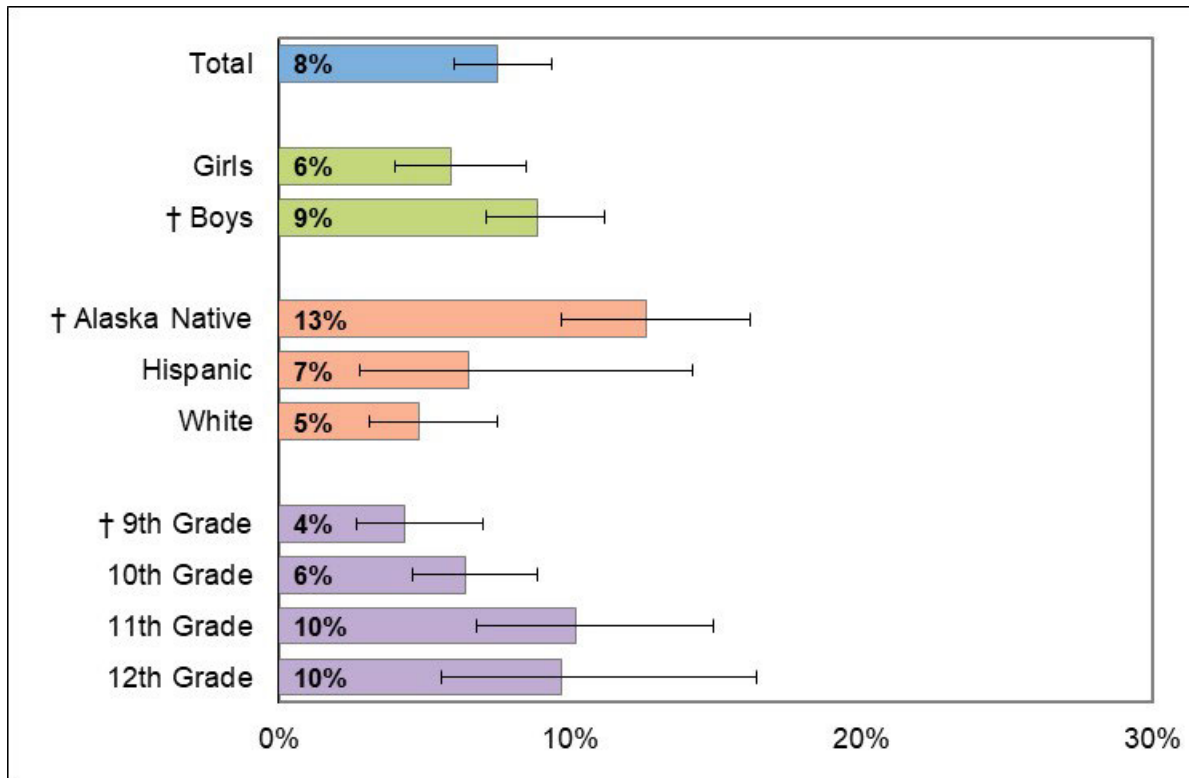


Source: Alaska YRBS

“Current smoking” among youth is defined as smoking on one or more of the past 30 days.

- Between 1995 and 2019, significant declines in current youth cigarette smoking occurred among both Alaska Native (62% vs. 13%) and non-Native high school students (33% vs. 5%).
- Declines were also significant during the past 10 years. From 2009 to 2019: Alaska Native student smoking prevalence declined from 24% to 13%; non-Native student smoking declined from 12% to 5%.

Figure 57. Percentage of High School Students Who Currently Smoke Cigarettes, by Selected Demographic Factors, Alaska, 2019



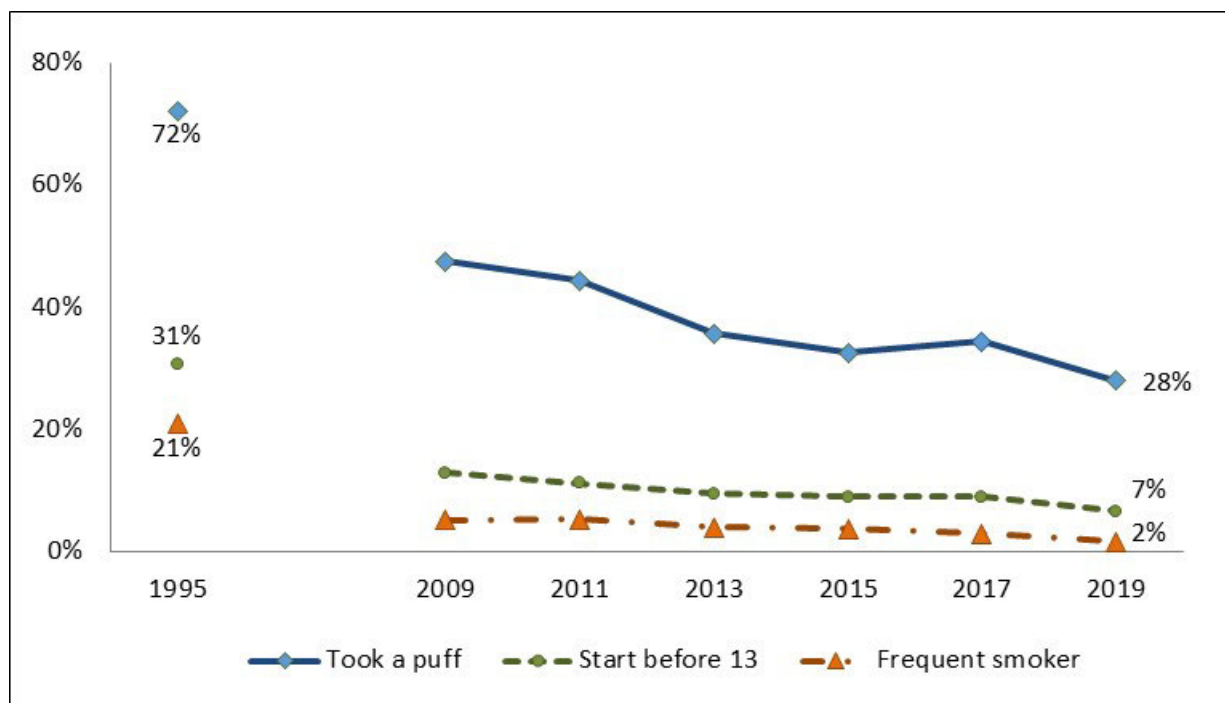
Source: Alaska YRBS

† Significant differences between sub-groups, as described below.

“Current smoking” among youth is defined as smoking on one or more of the past 30 days.

- Male students were more likely than female students to smoke cigarettes in 2019 (9% vs. 6%).
- Alaska Native students were more likely than White students to be current smokers (13% vs. 5%).
- Smoking prevalence was higher among older students than among younger students (10% among 11th grade students vs. 4% among 9th grade students).

Figure 58. Selected Cigarette Smoking Indicators: Percentage of High School Students Who Ever Tried Smoking, Started Smoking before Age 13, and Who are Frequent Smokers, * Alaska, 1995, 2009 – 2019

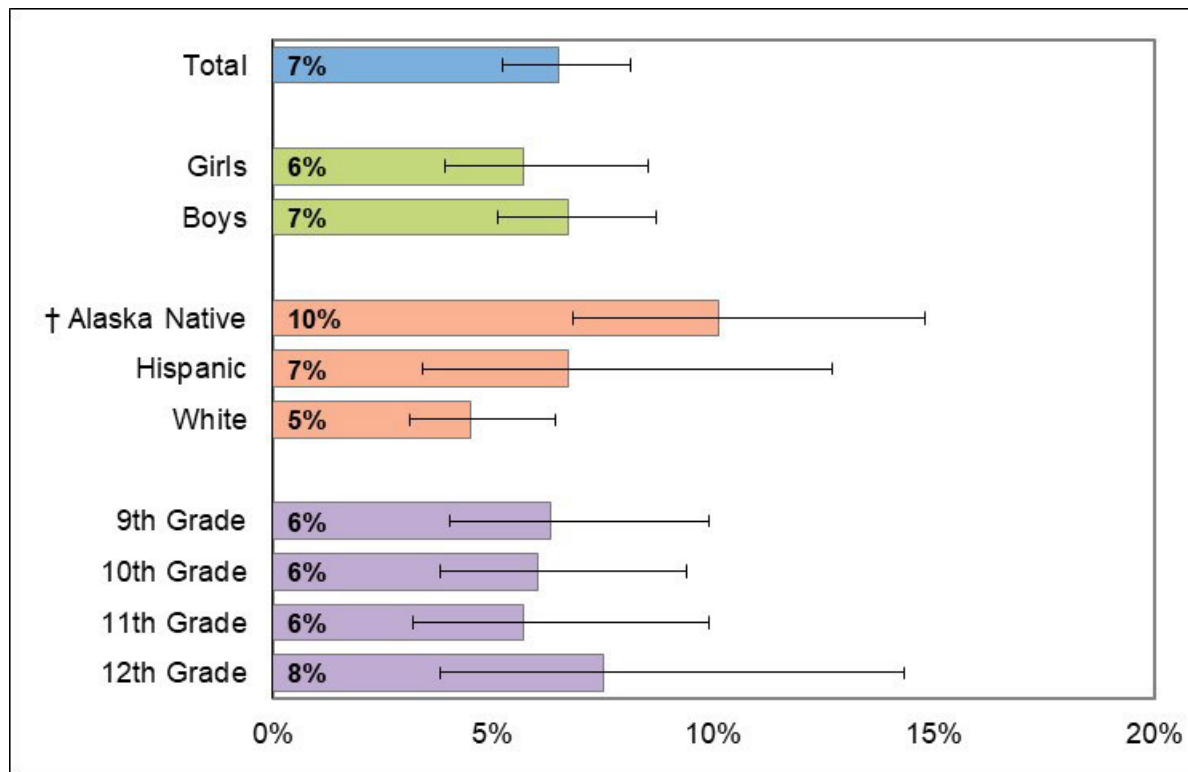


Source: Alaska YRBS

*Frequent smoking is defined as having smoked on 20 or more of the past 30 days.

- Among Alaska high school students, the percentage who reported ever trying smoking (even a puff) decreased from 72% of students in 1995 to 28% in 2019. Declines in ever smoking cigarettes were significant during the past 10 years: the percentage of youth dropped from 48% in 2009 to 28% in 2019.
- The percentage of Alaska high school students who started smoking before age 13 decreased from 31% in 1995 to 7% of students in 2019. The percentage of high school students who started smoking before age 13 declined significantly during the past 10 years: from 13% in 2009 to 7% in 2019.
- The percentage of Alaska high school students who are frequent smokers (defined as smoking on 20 or more of the past 30 days) decreased from 21% in 1995 to 2% in 2019. The percentage of high school students who smoke frequently declined significantly during the past 10 years: from 5% in 2009 to 2% in 2019.

Figure 59. Percentage of High School Students Who Tried Smoking Cigarettes before Age 13, by Selected Demographic Factors, Alaska, 2019

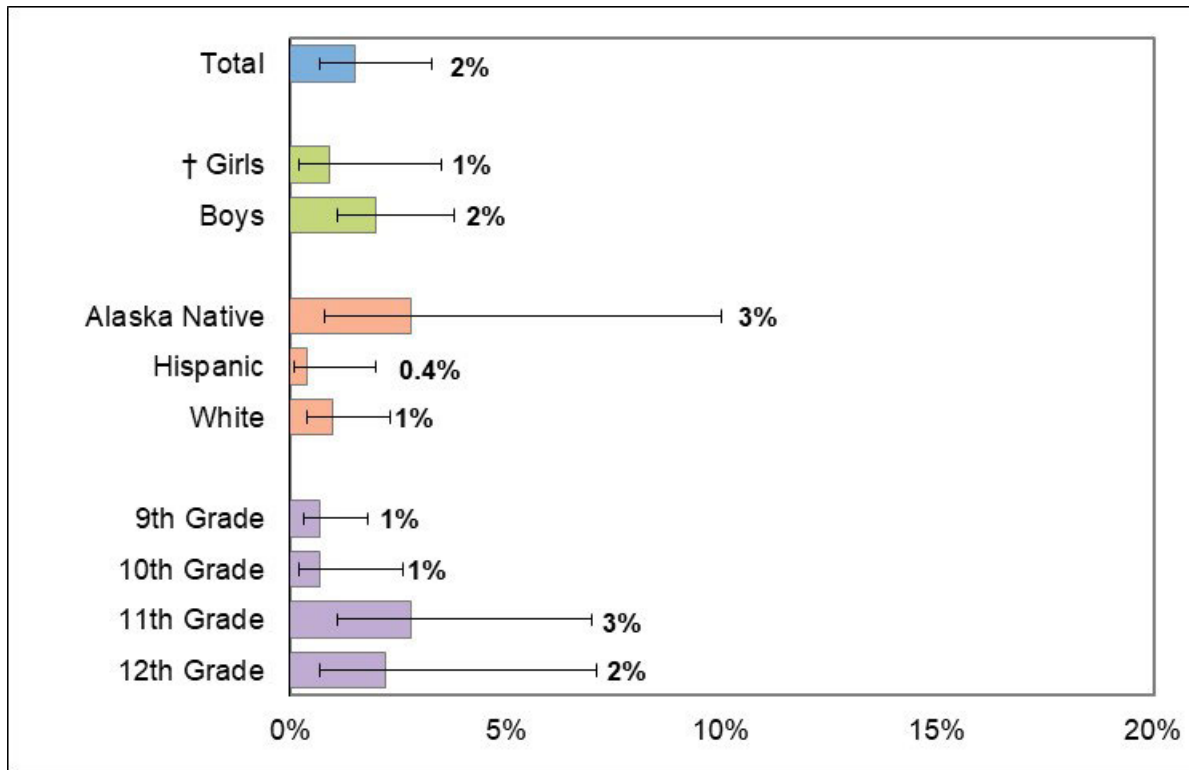


Source: Alaska YRBS

† Significant differences between sub-groups, as described below.

- In 2019, Alaska Native students were significantly more likely than White students to have started smoking before age 13 (10% vs. 5%).
- There were no significant differences in early initiation of smoking by gender or among grade groups.

Figure 60. Percentage of High School Students Who Frequently Smoke Cigarettes, by Selected Demographic Factors, Alaska, 2019



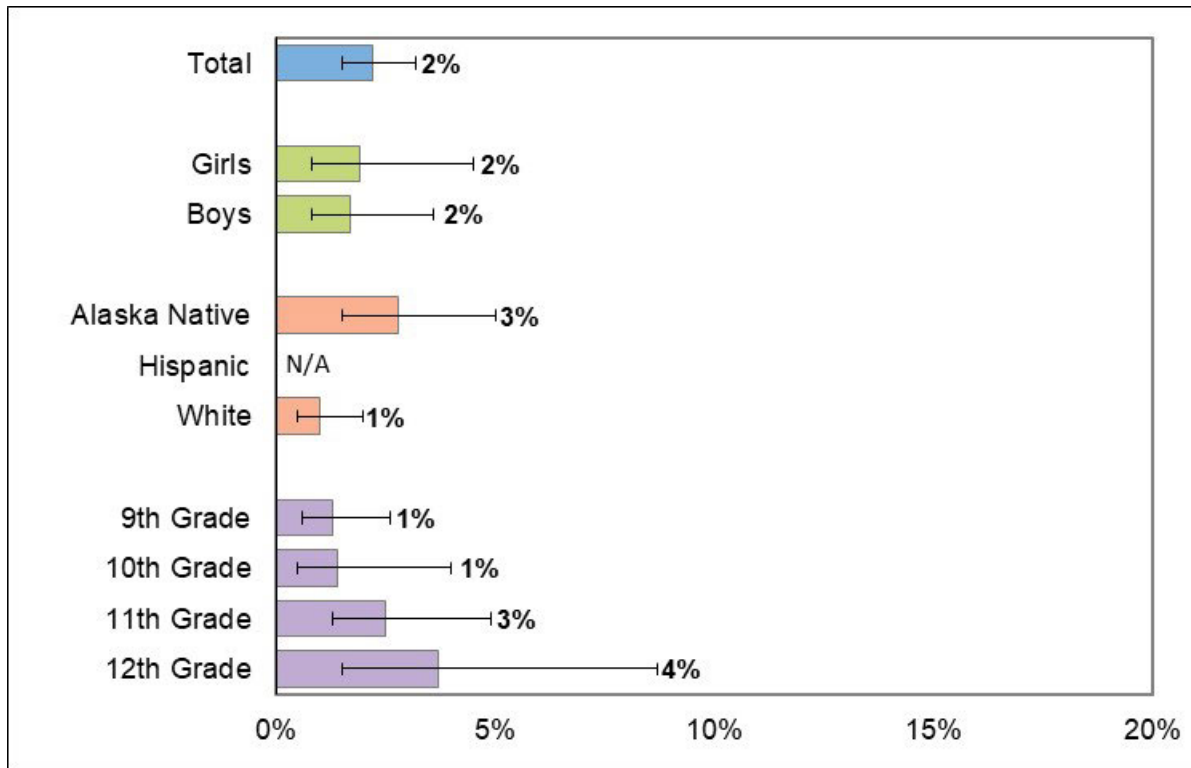
Source: Alaska YRBS

† Significant differences between sub-groups, as described below.

“Frequent smoking” among youth is defined as smoking on 20 or more of the past 30 days.

- Although not a large difference, Alaska female high school students were significantly less likely than male students to frequently smoke cigarettes in 2019 (1% vs. 2%).
- There were no significant differences in frequent smoking by race/ethnicity or among grade groups.

Figure 61. Percentage of High School Students Who Smoked Cigarettes on School Property in the Past 30 Days, by Selected Demographic Factors, Alaska, 2019

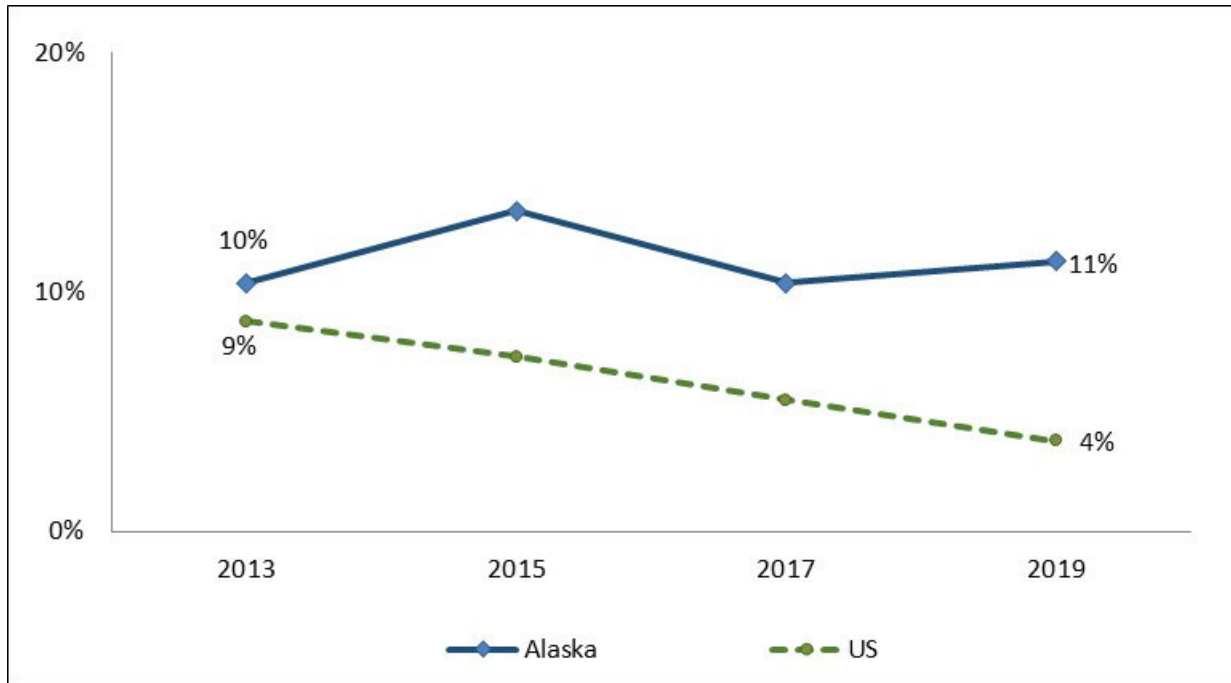


Source: Alaska YRBS

- In 2019, 2% of Alaska high school students said they had smoked cigarettes on school property in the past 30 days.
- There were no significant differences in the percentage of youth who had smoked on school property by gender, race/ethnicity, or among grade groups.

C. Smokeless Tobacco Use

Figure 62. Percentage of High School Students Who Currently Use Smokeless Tobacco (SLT), Alaska and US, 2013 – 2019



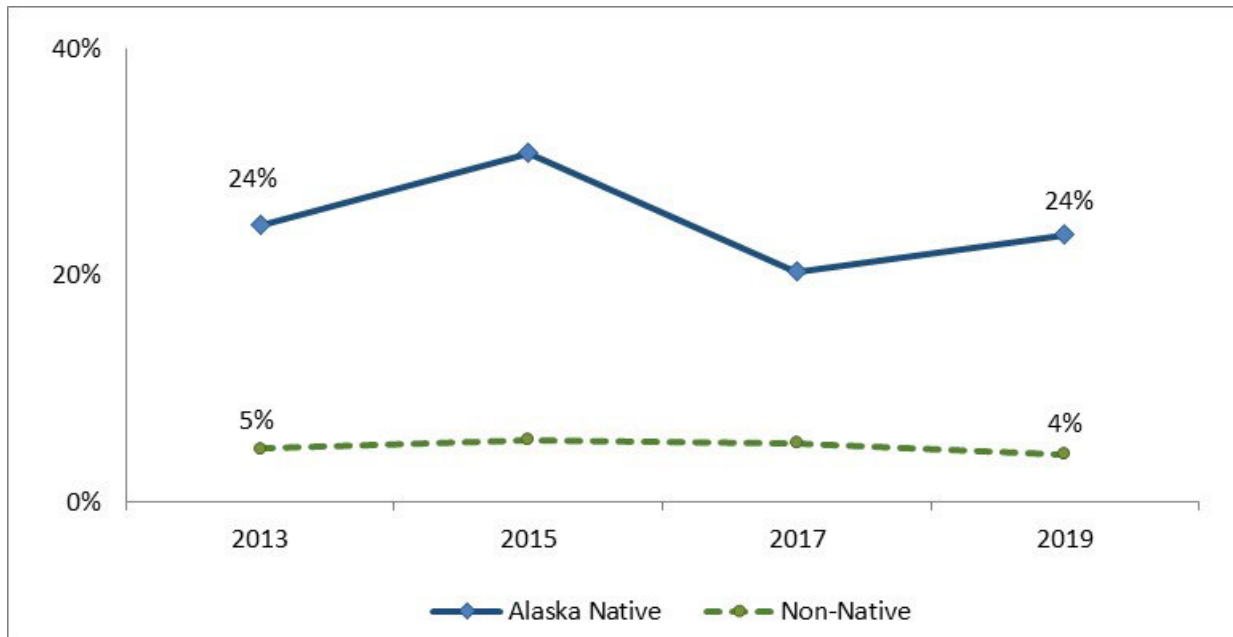
Source: Alaska YRBS and National YRBS

Note: Smokeless tobacco (SLT) use in Alaska includes chew, dip, snuff, and iqmik (see description in Figure 30). In 2017, snus and dissolvable tobacco were added to the YRBS question.

“Current use” among youth is defined as using on one or more of the past 30 days.

- The percentage of Alaska high school students who use smokeless tobacco (SLT) has not changed significantly during recent years: 10% in 2013 vs. 11% in 2019.
- Nationally, youth SLT use has decreased from 9% in 2013 to 4% in 2019.
- Based on the most recent percentage of students who use tobacco or nicotine products, there are more than 4,200 students in Alaska who are at risk for poor health outcomes due to smokeless tobacco products.

Figure 63. Percentage of High School Students Who Currently Use SLT, by Alaska Native Race, Alaska, 2013 – 2019



Source: Alaska YRBS

Note: Smokeless tobacco (SLT) use in Alaska includes chew, dip, snuff, and iqmik.

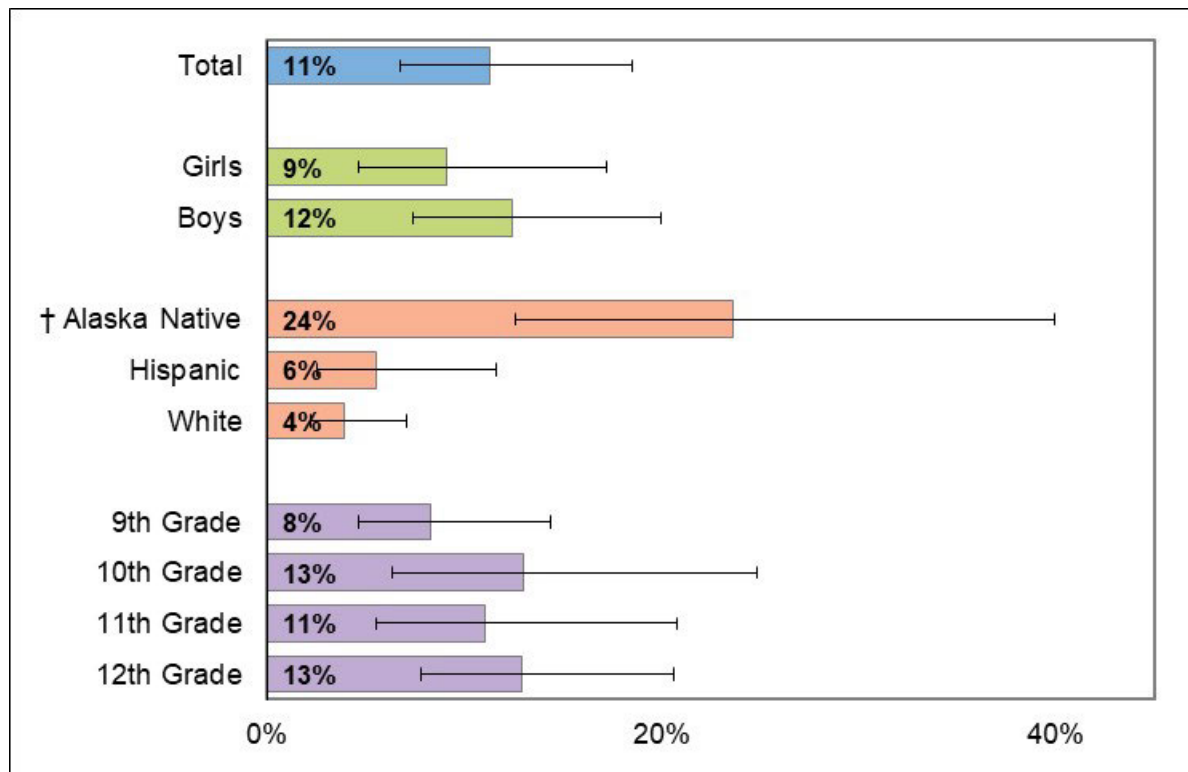
In 2017, snus and dissolvable tobacco were added to the YRBS question.

“Current use” among youth is defined as using on one or more of the past 30 days.

Note: Question about SLT use in Alaska includes the variant known as iqmik (see Introduction of this report).

- The percentage of high school students who use SLT has not changed significantly among both Alaska Native and non-Native students from 2013 to 2019.
- The percentage of Alaska Native students who use SLT has been consistently greater than for non-Native students.

Figure 64. Percentage of High School Students Who Currently Use SLT, by Selected Demographic Factors, Alaska, 2019



Source: Alaska YRBS

Smokeless tobacco (SLT) use in Alaska includes chew, dip, snuff, and iqmik.

* Significant difference between the two sub-groups.

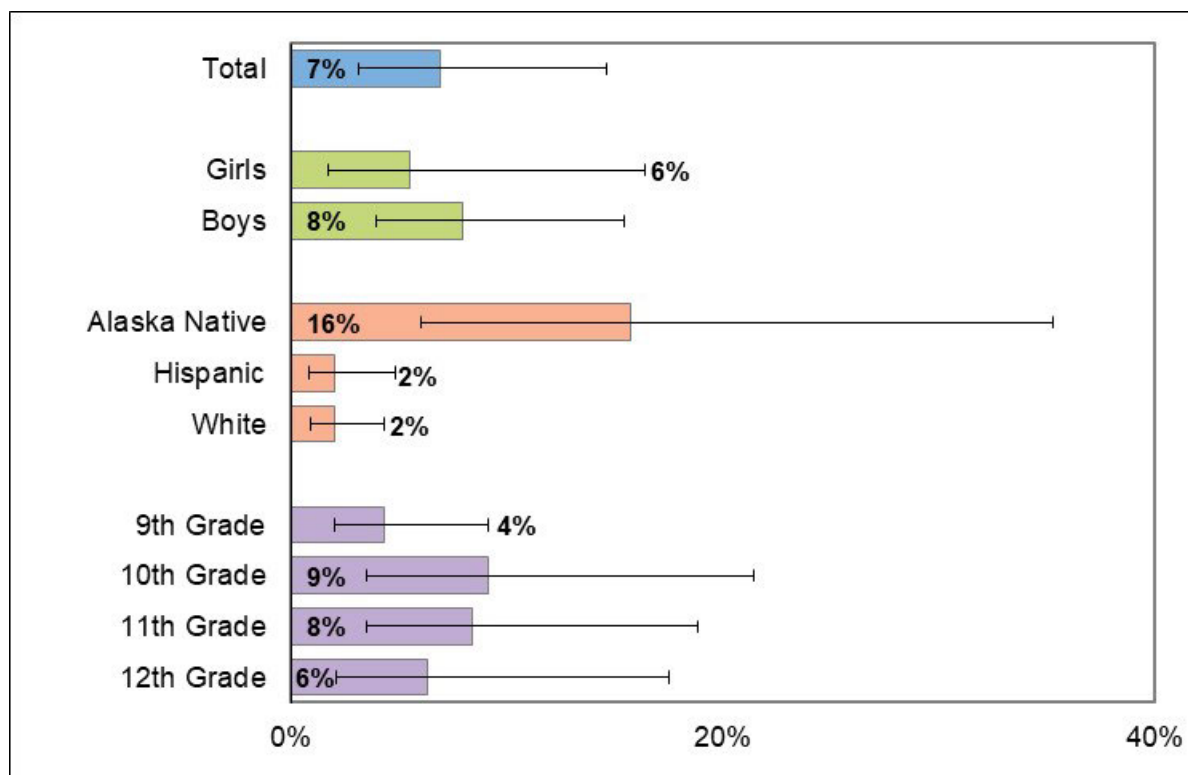
† Significant differences between sub-groups, as described below.

“Current use” among youth is defined as using on one or more of the past 30 days.

Note: Question about SLT use in Alaska includes the variant known as iqmik (see Introduction of this report).

- In 2019, Alaska Native students were significantly more likely than White students to use SLT (24% vs. 4%).
- There were not significant differences in the percentage of students who use SLT by gender or among grade groups.

Figure 65. Percentage of High School Students Who Currently Use SLT on School Property, by Selected Demographic Factors, Alaska, 2019



Source: Alaska YRBS.

Smokeless tobacco (SLT) use in Alaska includes iqmik.

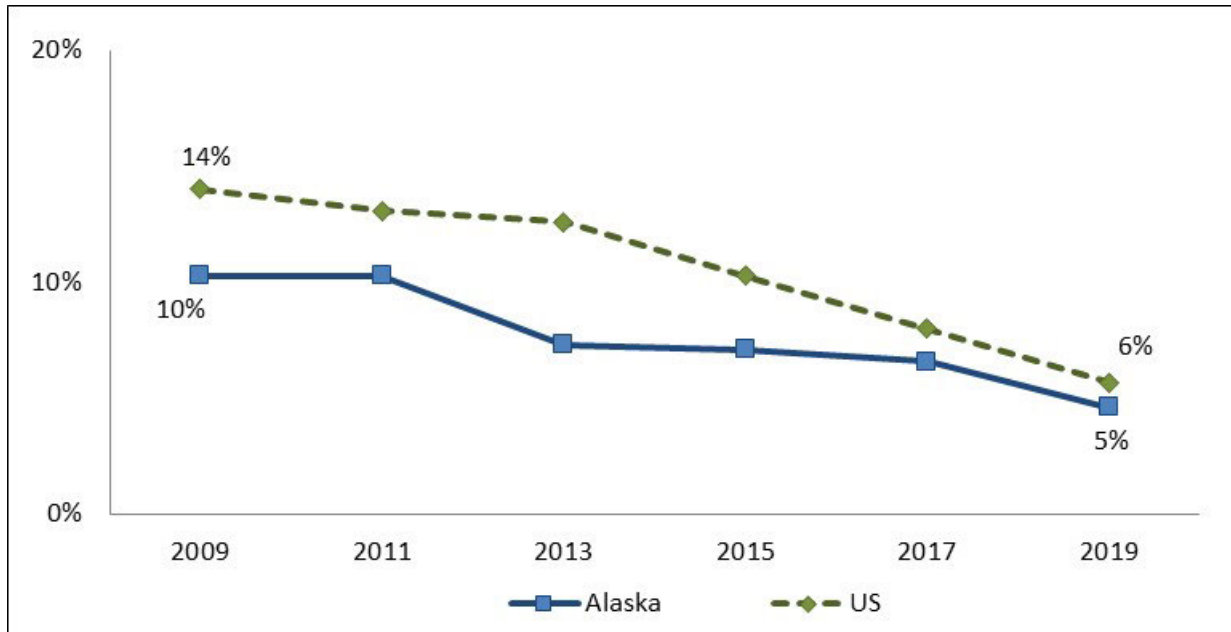
“Current use” among youth is defined as using on one or more of the past 30 days.

Note: Question about SLT use in Alaska includes the variant known as iqmik (see Introduction of this report).

- In 2019, 7% of Alaska high school students reported using smokeless tobacco (SLT) on school property on one or more of the past 30 days.
- Alaska Native students were significantly more likely than White and Hispanic students to report using SLT on school property (16% vs. 2%).
- There were no significant differences in use of SLT on school property by gender or among grade groups.

D. Cigar Use

Figure 66. Percentage of High School Students Who Currently Smoke Cigars or Cigarillos, Alaska and US, 2009 – 2019



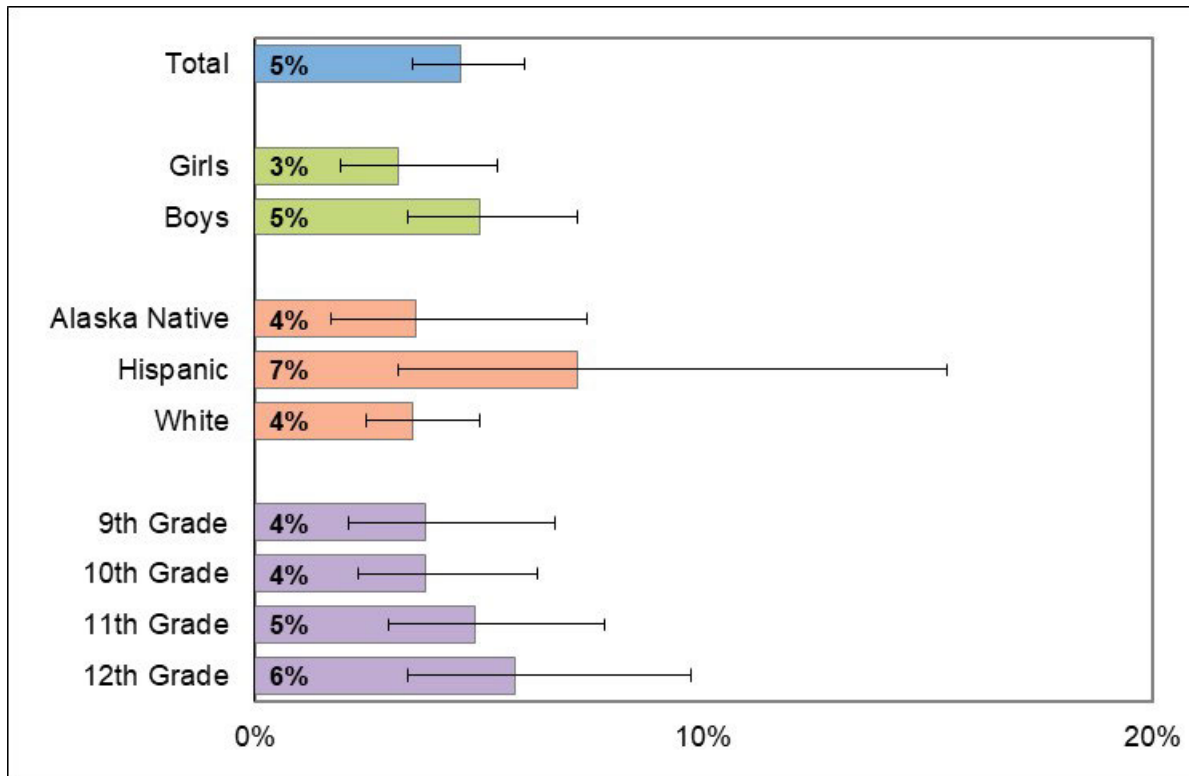
Source: Alaska YRBS and National YRBS

Note: Question was first included in the Alaska YRBS in 2003.

"Current smoking" among youth is defined as smoking on one or more of the past 30 days.

- Nationally, the percentage of high school students who smoke cigars or cigarillos decreased significantly from 22% in 1997 to 6% in 2019.
- The Alaska YRBS has included a question about cigar or cigarillo use since 2003. Youth cigar or cigarillo use in Alaska declined significantly between 2009 (10%) and 2019 (5%).
- Cigar/cigarillo use declined significantly for both male and female students in Alaska during the past 10 years. Among male students the decline was from 14% in 2009 to 5% in 2019, and among female students, from 6% in 2009 to 3% in 2019 (data not shown).

Figure 67. Percentage of High School Students Who Currently Smoke Cigars or Cigarillos, by Selected Demographic Factors, Alaska, 2019



Source: Alaska YRBS

- There were no significant differences in cigar/cigarillo use by gender, race/ethnicity group or grade.
- Among students who were currently smoking cigarettes, 34% reported also smoking cigars/cigarillos in the past 30 days, whereas only 1% of students who do not smoke cigarettes reported smoking cigars/cigarillos (data not shown).

Appendix A: Data Source Detail

A. *Alaska Tobacco Tax Data*

Data on cigarette sales in Alaska were obtained from the Alaska Department of Revenue, Tax Division. In Alaska, a tobacco tax is levied on cigarettes and other tobacco products that are sold, imported, or transferred into the state. This tax, which currently amounts to \$2.00 for a pack of 20 cigarettes and 75 percent of wholesale price for cigars and chewing tobacco, is collected primarily from licensed wholesalers and distributors. Tobacco tax returns are filed monthly by the last day of the month following the month in which the sales were made. Alaska tax data may fail to account for tobacco products that are consumed here but are purchased out of state or through other means not captured by tax records (e.g., bought over the Internet). Because data files are updated monthly, variations can occur depending on when a report is accessed. Sales estimates for years prior to FY 2008 are those calculated for and included in prior Tobacco Facts reports and are not updated to reflect any further changes. Tax reports can be found on the Alaska Department of Revenue web pages at: <http://www.tax.alaska.gov//programs/programs/reports/index.aspx?60170>.

B. *Population Estimates*

Current year Alaska population estimates by age, sex and race/ethnicity, used in calculating the number of tobacco users and Alaska consumption (packs per adult), come from the Alaska Department of Labor and Workforce Development population estimate web pages at <http://live.laborstats.alaska.gov/pop/index.cfm>.

C. *Behavioral Risk Factor Surveillance System (BRFSS)*

The BRFSS is an anonymous telephone survey conducted by the Alaska Division of Public Health in cooperation with the Centers for Disease Control and Prevention (CDC). It aims to estimate in the general adult population, the prevalence of health-related risk behaviors, chronic health conditions, and use of preventive services that address leading causes of morbidity and mortality. The BRFSS has operated continuously in Alaska since it began in 1991.

The BRFSS uses a probability (or randomized) sample in which all Alaska households with landline telephones have a known, nonzero chance of selection. The sample is stratified into regions, with roughly equal numbers of interviews conducted in each region. This method deliberately over-samples rural areas of the state. Respondents are randomly selected from among the adult members of each household reached through a series of random telephone calls. Historically, those living in institutions (i.e., nursing homes, dormitories) are not surveyed. In 2011, the sample was stratified into six geographic regions. In addition, the sampling frame was expanded to include a random sample of cell phone owners as well as landline or household phones. This step was important because the proportion of households served only by cellular telephones increased rapidly between

2010-2019. In 2010, about 22% of Alaska adults lived in cell-only households,¹⁶ and by 2019, 63% of Alaska adults reported only having cell phones.¹⁷ Since 2011, Alaska's cell phone sample has been large enough to include it in weighting and reporting of data.

Interviews are conducted by trained interviewers during weekdays, evenings, and weekends throughout the year. In addition to tobacco use, the BRFSS questionnaire covers such topics as general health status, health care access, nutrition, physical activity, diabetes, alcohol use, women's health, injury prevention, and HIV/AIDS awareness. There are also questions on the demographic characteristics of respondents.

BRFSS data are weighted to adjust the distribution of the sample data to reflect the area's total population, and to compensate for the over-representation or under-representation of persons in various subgroups. Beginning with the 2011 BRFSS, the CDC uses a weighting method known as iterative proportional fitting or raking. Raking allows for the inclusion of several key demographic factors in adjusting survey data to the adult population totals. The changes that have been made help ensure that the BRFSS can continue to be a valuable source of information for health planning and improvement.

Changes to Availability of Tobacco Questions in BRFSS

Prior to 2021, Alaska's BRFSS Program also supported a Supplemental survey that contained mostly tobacco-related questions and was entirely planned by the state of Alaska. Both the BRFSS and Supplemental surveys were conducted throughout the year, using separate samples drawn using the same methodology.

Beginning in 2021, Alaska discontinued the Supplemental survey. Many tobacco-related questions that were formerly included on the Supplemental survey are now being collected using an online survey of Alaska adults. This change substantially improves efficiency and information from the online survey will be available more quickly. However, the change in methodology means that data for these factors may not be comparable to data previously collected using the Supplemental survey. For this reason, the *Alaska Tobacco Facts 2022 Update* does not include information from survey questions that were reported in previous years but are no longer being collected on the Standard BRFSS. This includes measures such as exposure to secondhand smoke, and attitudes about harm from secondhand smoke. The TPC program is currently exploring how best to provide these new data for use by partners in the state.

Prior to 2021, including all years in this report, the BRFSS and Supplemental survey were weighted separately for analysis of questions that are unique to that survey version. Then a combined dataset (BRFSS plus Supplemental survey) was created and weighted for analysis of questions that occurred in both versions, so that some data can be reported for a total of 5,000 or more survey respondents each year since 2004. The combined survey weight was discontinued starting with the 2019 data as part of the change in methodology.

¹⁶ Blumberg SJ, Luke JV, Ganesh N, et al. Wireless substitution: State-level estimates from the National Health Interview Survey, 2010–2011. National health statistics reports; no 61. Hyattsville, MD: National Center for Health Statistics. 2012. <https://www.cdc.gov/nchs/data/nhsr/nhsr061.pdf>

¹⁷ Blumberg SJ, Luke JV. Wireless substitution: Early release of estimates from the National Health Interview Survey, July-December 2019. National Center for Health Statistics. September 2020. Available from: <https://www.cdc.gov/nchs/nhis.htm> https://www.cdc.gov/nchs/data/nhis/earlyrelease/wireless_state_202108-508.pdf

Beginning with the 2019 estimates, key tobacco use measures are reported from the Standard BRFSS data only. Supplemental survey items that are not available from the Standard BRFSS will be reported in *2022 Regional Profiles*.

In 2020, the Alaska Standard BRFSS included 3,675 participants. Because sample sizes are limited within regions and for some subpopulation groups, estimates for some demographic and geographic subgroups are only reported using data for 3 years combined (2018-2020 data).

Defining Tobacco Use

Since 1996, the BRFSS has defined current cigarette smoking from two questions: 1) Have you smoked at least 100 cigarettes in your entire life? and 2) Do you now smoke cigarettes every day, some days, or not at all? Current smokers are those who have smoked at least 100 cigarettes in their life and now smoke every day or some days. Former smokers are those who have smoked at least 100 cigarettes in their entire life but currently do not smoke at all.

Information about electronic vapor product (e-cigarette or “vape”) use has been collected since 2010. Beginning in 2016, the question about e-cigarette use includes an optional clarifying statement: “Electronic cigarettes (e-cigarettes) and other electronic ‘vaping’ products include electronic hookahs (e-hookahs), vape pens, e-cigars, and others. These products are battery-powered and usually contain nicotine and flavors such as fruit, mint, or candy.” Respondents are asked if they have ever used e-cigarettes or other electronic vapor products, if they currently use them every day, some days, or not at all, and on how many days of the past 30 they used them. Current electronic vapor product use is defined as using e-cigarettes or other electronic vapor products on some days or every day. Former electronic vapor product use is defined as ever having used these products, but not currently using them.

For smokeless tobacco use, respondents are asked if they currently use chewing tobacco, snuff, snus and/or iqmik every day, some days, or not at all. In the Supplemental BRFSS, there is also a question about ever use of smokeless tobacco products. From 1996 to 2002, current use was defined as every day or some days use of chewing tobacco and/or snuff. Since 2004, iqmik has also been in the list of SLT products noted in the question, and since 2009, snus has also been included. In 2008, a follow-up question was added to get more information about which products respondents use.

Reporting by Race and Ethnicity

Race and ethnicity are combined for reporting. “Alaska Native” includes all individuals who reported being American Indian/Alaska Native (AIAN) alone or in combination with other race groups, regardless of Hispanic ethnicity. This is a revision from past reports, where this subgroup included only those who reported AIAN only or as their preferred or primary race group. “Non-Native” includes adults of all other (non-AIAN) race groups, including those who reported multiple races (but not AIAN), as well as those who did not report a race but did report being Hispanic. Estimates reported in this report will be slightly different than older estimates due to the change in defining the subgroups.

In order to monitor disparities in tobacco use among other racial/ethnic groups, adult tobacco use is also reported in 6 race/ethnicity categories (including AIAN), using combined years of data. In the expanded race and ethnicity reporting, those who self-identified as one race only and did not report Hispanic ethnicity are reported in their respective categories of African American, Asian, Pacific Islander, and White. Those who report being Hispanic or Latino are listed as “Hispanic” unless they also self-identified as AIAN. Because there are small numbers of BRFSS respondents who report their primary race group as something other than White or Alaska Native each year, the most recent three years of data are combined in order to report adult tobacco use for these groups.

Reporting by Socioeconomic Status (SES)

Poverty level (calculated from household income and number of people in household) was identified as a key indicator of SES that is available using BRFSS. The poverty guidelines, issued each year in the Federal Register by the Department of Health and Human Services (HHS), are a simplified version of the federal poverty thresholds and are used for administrative purposes — for instance, determining financial eligibility for certain federal programs.¹⁸ The Alaska-specific guideline totals were used to create a cut-point of household incomes at or below the 185% poverty guideline¹⁹ for this report, because this percent corresponds with eligibility criteria for the Supplemental Nutrition Assistance Program (SNAP), the Special Supplemental Nutrition Program for Women, Infants, and Children (WIC), and some parts of Medicaid, among other programs.

There are limitations in using income or percent of poverty guideline in the BRFSS. Respondents select a range of income categories and therefore the percent of poverty guideline is sometimes approximate. In addition, many respondents either decline to answer or report that they do not know their household income level. Between 2018-2020, about 18% of Alaska BRFSS respondents were missing information about income.

Reporting by SES as presented in *Tobacco Facts 2022* is different from prior year reports, since those reports focused on SES among non-Native Alaska adults and the prior SES definition included education status as well as poverty guideline level.

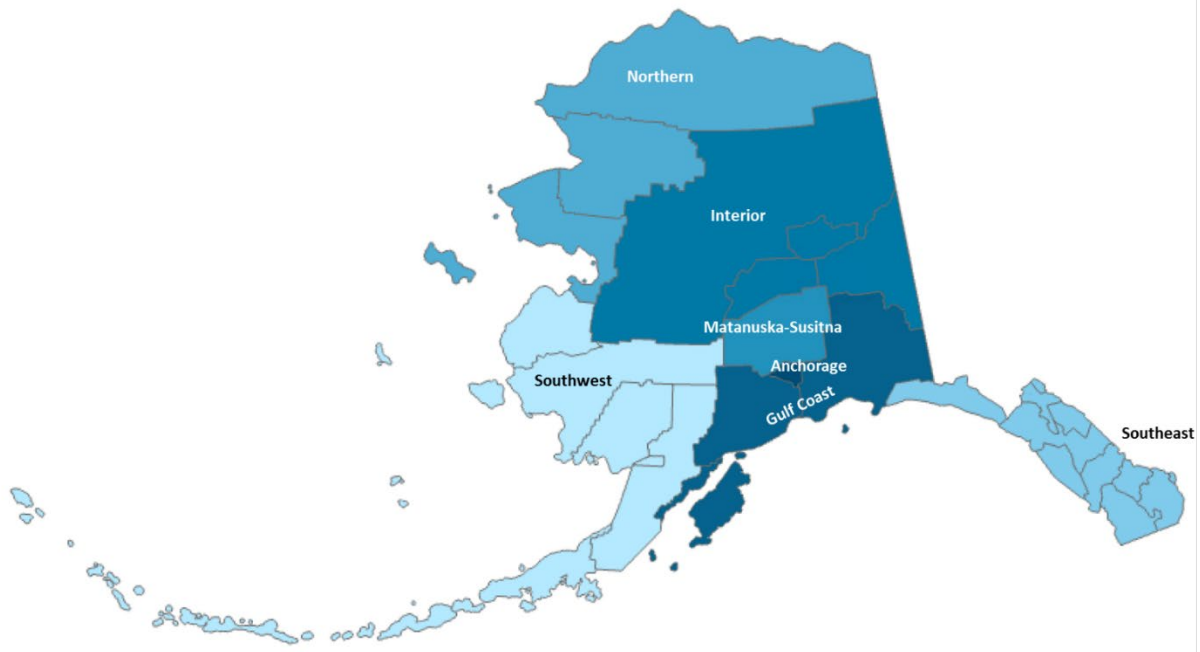
Regional Reporting

As the BRFSS survey data do not provide sufficient representation for reporting by most of the individual boroughs, we combined boroughs to create regions for analysis of patterns by the geographic areas of Alaska. There are seven Public Health Regions in Alaska (see Figure below).

¹⁸ More information about the poverty guideline can be found here: <https://aspe.hhs.gov/poverty-guidelines>

¹⁹ In Alaska in 2020, a family of three with a household income of \$50,227 would be at 185% of the HHS poverty guideline.

Figure: Alaska's Public Health Regions



Source: State of Alaska, DOH, DPH, Section of Chronic Disease Prevention and Health Promotion

Alaska Public Health Regions are defined using borough and census area designations as follows:

- 1) **Anchorage.** Municipality of Anchorage
- 2) **Matanuska-Susitna (or Mat-Su).** Matanuska-Susitna Borough
- 3) **Gulf Coast.** Kenai Peninsula Borough, Kodiak Island Borough, and Valdez-Cordova Census Area
- 4) **Interior.** Denali Borough, Fairbanks North Star Borough, Southeast Fairbanks Census Area, and Yukon-Koyukuk Census Area
- 5) **Northern.** Nome Census Area, North Slope Borough, and Northwest Arctic Borough
- 6) **Southeast.** Haines Borough, Hoonah-Angoon Census Area, Juneau City and Borough, Ketchikan Gateway Borough, Petersburg Census Area, Prince of Wales-Hyder Census Area, Sitka City and Borough, Skagway Municipality, Wrangell City and Borough, and Yakutat City and Borough
- 7) **Southwest.** Aleutians East Borough, Aleutians West Census Area, Bethel Census Area, Bristol Bay Borough, Dillingham Census Area, Lake and Peninsula Borough, and Kusilvak Census Area (formerly Wade Hampton Census Area)

For more on Alaska's Public Health Regions see:

https://dhss.alaska.gov/health/dph/Chronic/Pages/Data/geo_phr.aspx

Data Suppression Guidelines

In this report, BRFSS estimates are suppressed when either the denominator is below 50 or the numerator is below 5. Some estimates combine years of data in order to produce a more reliable and reportable estimate. If the relative standard errors for both an estimate and its inverse are both greater than 0.3, the estimate is flagged as “unstable.”

D. Youth Risk Behavior Survey (YRBS)

The YRBS is a systematic biennial survey of high school students that assesses prevalence of behaviors related to the leading causes of mortality, morbidity, and social problems among adolescents. The Centers for Disease Control and Prevention (CDC) sponsor national and state surveys every two years, typically in the spring of odd-numbered years, most recently in 2021. However, the Alaska YRBS was canceled in 2021 due to the unprecedented challenges Alaska school districts and schools were facing due to the COVID-19 pandemic. Therefore, Alaska's most recent YRBS data is from the 2019 survey.

The statewide Alaska traditional high school YRBS is conducted using a two-stage sampling design. The sampling frame is traditional public schools containing grades 9, 10, 11, and 12. Schools are selected first with a probability of inclusion proportional to the size of their enrollment. Once a school is chosen, classes are selected, with each student having an equal opportunity for inclusion. From 2001 through 2019, active parental consent was required for each student participating in the Alaska YRBS. On the appointed survey day, students completed written questionnaires and returned them in class in unmarked, sealed envelopes.

In a typical YRBS administration, about 1,200 to 1,800 students are surveyed from about 40 to 45 high schools that are scientifically selected to represent all public traditional high schools (excluding boarding schools, alternative schools, correspondence and home study schools, and correctional schools) in Alaska. Data are weighted to reflect the true distribution of Alaska traditional high school students by gender, race/ethnicity, and grade level, but not by region of the state. These results are considered representative of Alaska's more than 30,000 students in grades 9-12 in traditional public high schools.

One limitation of YRBS is that it does not estimate risk behaviors for adolescents who are not in traditional high schools because they dropped out or do not attend school. Beginning in 2009, about 1,000 students from around a dozen alternative high schools in Alaska have been surveyed in each survey cycle to evaluate and address the health risks of this unique population. However, this report uses data only from traditional high schools to assure comparability of the state sample over time.

Further information about the YRBS, including survey results for the statewide traditional high school sample and alternative high school sample are available at <https://health.alaska.gov/dph/Chronic/Pages/yrbs/results.aspx#results>.

Reporting by Race and Ethnicity

We report race/ethnicity by whether the survey participant reported being Alaska Native, Hispanic, and/or White. All YRBS survey participants who report being American Indian or Alaska Native, either alone or in combination with other race groups or Hispanic ethnicity, are categorized in this report as being Alaska Native. Participants who identified as Hispanic ethnicity and any race category except Alaska Native (as well as those who did not report race) are reported as Hispanic. Participants who identified as non-Hispanic and White are reported as White. We also combine all non-Alaska Native race groups to report a "Non-Native" category. This category includes students who report being White, Hispanic, African American, Asian, Hawaiian or Other Pacific Islander, or who report multiple race groups

(excluding Alaska Native). Those who did not report both a race and ethnicity are not included in the race group reporting.

Reporting by other individual races or groups is limited by the relatively small number of students in the YRBS sample.

Data Suppression Guidelines

Information for population subgroups is suppressed where the total participation (as indicated by the denominator N in the appendix tables) is less than 100 students by group. Data are also suppressed if the number of students reporting a behavior (n) is fewer than 5 or the denominator (N) minus the number of students reporting the behavior (n) is less than 5.

Logical Consistency Edits

To ensure the quality of YRBS results, the CDC and the Alaska YRBS Program use logical consistency edits as part of the YRBS data cleaning process. For each survey respondent, these logic edits check for agreement across logically related questions and responses (e.g., a student responding in one question that they have never smoked and responding in a subsequent question that they smoke 10 cigarettes a day). Responses that conflict are removed from the YRBS dataset. The same logic edits are applied to Alaska statewide traditional high school data, statewide alternative high school data, and local YRBS datasets.

Beginning in 2017, the Alaska YRBS Program identified several additional logic edits that could be used to clean Alaska statewide and local YRBS data. These edits resulted in small differences between CDC and Alaska-produced prevalence estimates and confidence intervals for select YRBS measures. Although this change primarily affected YRBS results in 2017 and after, prior-year prevalence estimates for current smoking (2003-2013) and current SLT use (2013-2015) were also affected. For more information about this change, please contact the Alaska YRBS program at yrbs@alaska.gov.

E. *Pregnancy Risk Assessment Monitoring System (PRAMS)*

PRAMS data were used in this report to document prenatal tobacco use, including cigarettes, smokeless tobacco, and chewing or spit tobacco. PRAMS is a population-based survey of Alaska women who have recently delivered a live-born infant. It gathers information on the health risk behaviors and circumstances of pregnant and postpartum women. PRAMS is conducted in collaboration with the CDC. Forty-six states, the District of Columbia, New York City, Northern Mariana Islands, and Puerto Rico currently participate in PRAMS, representing approximately 81% of all U.S. live births.

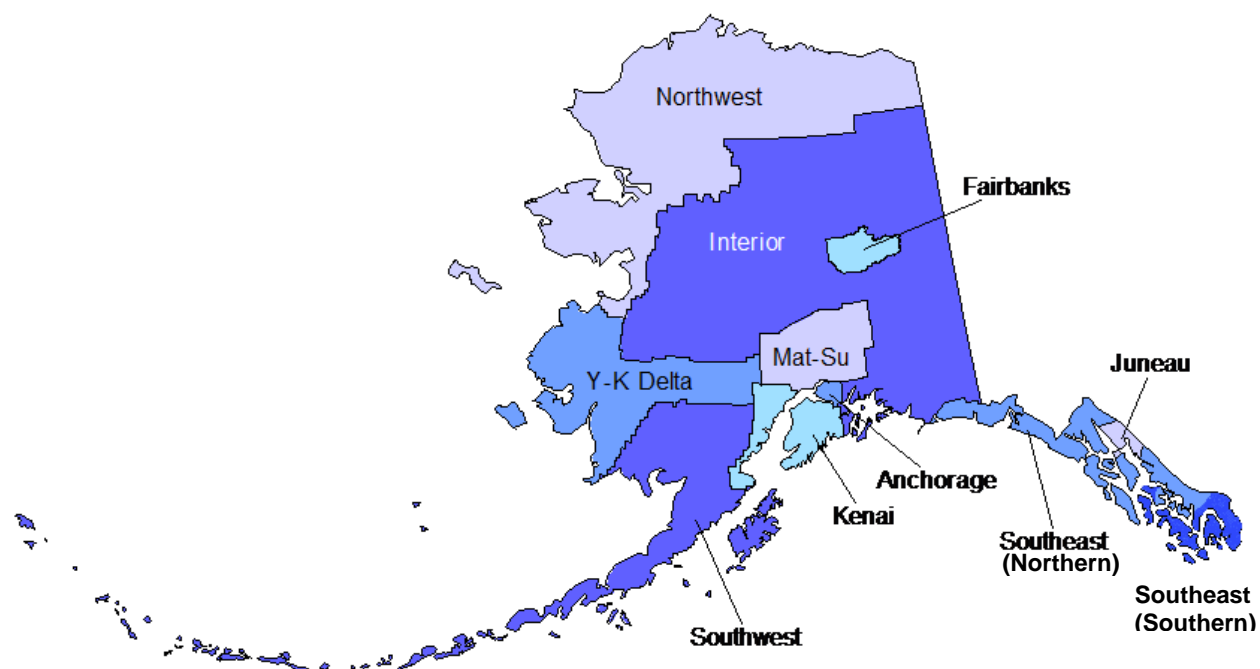
In Alaska, the Division of Public Health has administered PRAMS since 1990. A stratified systematic sample is drawn each month from the state's live birth records for infants between two and six months of age. Sampled mothers receive up to three mailed questionnaires to solicit a response, and since 1997, telephone follow-up occurs among those who do not respond by mail. Sampling is not limited to adult women, so PRAMS data does include responses from teenage mothers.

In addition to maternal tobacco use, the PRAMS questionnaire addresses such topics as prenatal care content, maternal alcohol use, maternal stress, breastfeeding, physical abuse, and other topics. Survey responses are weighted so that reported prevalence accurately describes the population of Alaska women delivering a live-born infant during the year reported. The weighted response rate was 58% in 2019.

See <http://dhss.alaska.gov/dph/wcfh/Pages/mchepi/prams/default.aspx> for more information about PRAMS questionnaires and methodology.

Regional Reporting

Figure: Alaska Behavioral Health Regions Map



Source: State of Alaska, DHSS, DPH, Section of Chronic Disease Prevention and Health Promotion

Some PRAMS information in this report is presented by Behavioral Health Systems Region, which are defined using borough designation as follows:

- 1) **Anchorage** – Municipality of Anchorage
- 2) **Fairbanks** – Fairbanks North Star Borough
- 3) **Juneau** – Juneau City and Borough
- 4) **Kenai** – Kenai Peninsula Borough
- 5) **Mat-Su** – Matanuska-Susitna Borough
- 6) **Northwest** – Nome Census Area, North Slope Borough, and Northwest Arctic Borough
- 7) **Interior** – Denali Borough, Southeast Fairbanks Census Area, Valdez-Cordova Census Area, and Yukon-Koyukuk Census Area
- 8) **Southeast (Northern and Southern combined)*** – *Northern*: Haines Borough, Hoonah-Angoon Census Area, Petersburg Census Area, Sitka City and Borough, Skagway Municipality, Wrangell City and Borough, and Yakutat City and Borough; *Southern*: Ketchikan Gateway Borough, Prince of Wales-Hyder Census Area
- 9) **Southwest** – Aleutians East Borough, Aleutians West Census Area, Bristol Bay Borough, Dillingham Census Area, Kodiak Island Borough, and Lake and Peninsula Borough
- 10) **Y-K Delta** – Bethel Census Area and Kusilvak Census Area

* Southeast is typically reported as 2 Behavioral Health regions (Northern and Southern), but in this report these regions were combined for reporting on PRAMS data due to small numbers of respondents within individual regions.

F. National Health Interview Survey (NHIS)

The National Health Interview Survey (NHIS) has been given in the U.S. since 1957 and is currently administered by the U.S. Census Bureau. NHIS uses household-based interviews to collect data on a variety of health topics, including healthcare access, health conditions, and behaviors, and provides results used for tracking U.S. national health objectives.

For this report, NHIS individual-year estimates for U.S. e-cigarette use prevalence were obtained from the following publications:

2014: Schoenborn CA, Gindi RM. Electronic cigarette use among adults: United States, 2014. NCHS data brief, no. 217. Hyattsville, MD: National Center for Health Statistics. 2015.

<https://www.cdc.gov/nchs/data/databriefs/db217.pdf>.

2015: QuickStats: Cigarette Smoking Status Among Current Adult E-cigarette Users, by Age Group — National Health Interview Survey, United States, 2015. MMWR Morb Mortal Wkly Rep 2016;65:1177. DOI:

<http://dx.doi.org/10.15585/mmwr.mm6542a7>.

2016: QuickStats: Percentage of Adults Who Ever Used an E-cigarette and Percentage Who Currently Use E-cigarettes, by Age Group — National Health Interview Survey, United States, 2016. MMWR Morb Mortal Wkly Rep 2017;66:892. DOI: <http://dx.doi.org/10.15585/mmwr.mm6633a6>

2017 NHIS estimate: Tobacco Product Use Among Adults — United States, 2017. MMWR Morb Mortal Wkly Rep 2018;67:1225-1232. DOI: <http://dx.doi.org/10.15585/mmwr.mm6744a2>

2018 NHIS estimate: Creamer MR, Wang TW, Babb S, et al. Tobacco Product Use and Cessation Indicators Among Adults — United States, 2018. MMWR Morb Mortal Wkly Rep 2019;68:1013–1019. DOI:

<http://dx.doi.org/10.15585/mmwr.mm6845a2>

2019 NHIS estimate: Cornelius ME, Wang TW, Jamal A, Loretan CG, Neff LJ. Tobacco Product Use Among Adults — United States, 2019. MMWR Morb Mortal Wkly Rep 2020;69:1736–1742. DOI:

<http://dx.doi.org/10.15585/mmwr.mm6946a4>

2020 NHIS estimate: Cornelius ME, Loretan CG, Wnag TW, Jamal A, Homa DM. Tobacco Product Use Among Adults — United States, 2020. MMWR Morb Mortal Wkly Rep 2022;71: 397-405.

<https://www.cdc.gov/mmwr/volumes/71/wr/pdfs/mm7111a1-H.pdf>

NHIS data are age-adjusted. Results are directly standardized to the age distribution of the 2000 U.S. Standard Population using the following age groups: 18-39, 40-59, 60+.

For more information on the NHIS, visit <https://www.cdc.gov/nchs/nhis/index.htm>

ALASKA TOBACCO PREVENTION AND CONTROL PROGRAM



TOBACCO FACTS 2022 UPDATE

