



ALASKA TOBACCO FACTS

2015

Alaska Tobacco Facts

2015 Update

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Table of Contents

I. TOBACCO-RELATED DEATHS AND ECONOMIC COSTS.....	3
II. ADULT TOBACCO USE.....	4
A. CIGARETTE CONSUMPTION	4
B. SMOKING PREVALENCE.....	5
C. CESSATION: QUITTING SMOKING	15
D. USE OF E-CIGARETTES AND OTHER VAPOR PRODUCTS	20
E. SMOKELESS TOBACCO PREVALENCE	21
F. TOBACCO USE DURING PREGNANCY	31
III. YOUTH TOBACCO USE.....	34
A. SMOKING PREVALENCE – CIGARETTES	34
B. SMOKELESS TOBACCO USE	42
C. CIGAR USE	47
D. YOUTH ACCESS TO TOBACCO	50
IV. SECONDHAND SMOKE.....	52
A. SECONDHAND SMOKE AT HOME	53
B. SECONDHAND SMOKE AT WORK.....	62
C. KNOWLEDGE OF HEALTH RISKS FROM SECONDHAND SMOKE EXPOSURE	73
D. ATTITUDES ABOUT SECONDHAND SMOKE	76
V. ALASKA TOBACCO PREVENTION AND CONTROL PROGRAM	88
VI. APPENDIX A: TREND TABLES.....	92
VII. APPENDIX B: DATA SOURCES.....	141

Introduction

Alaska Tobacco Facts is designed to be a brief, annual update of key indicators from state data sources. This report can be used to educate Alaskans about the toll that tobacco continues to take on the health and well-being of our citizens.

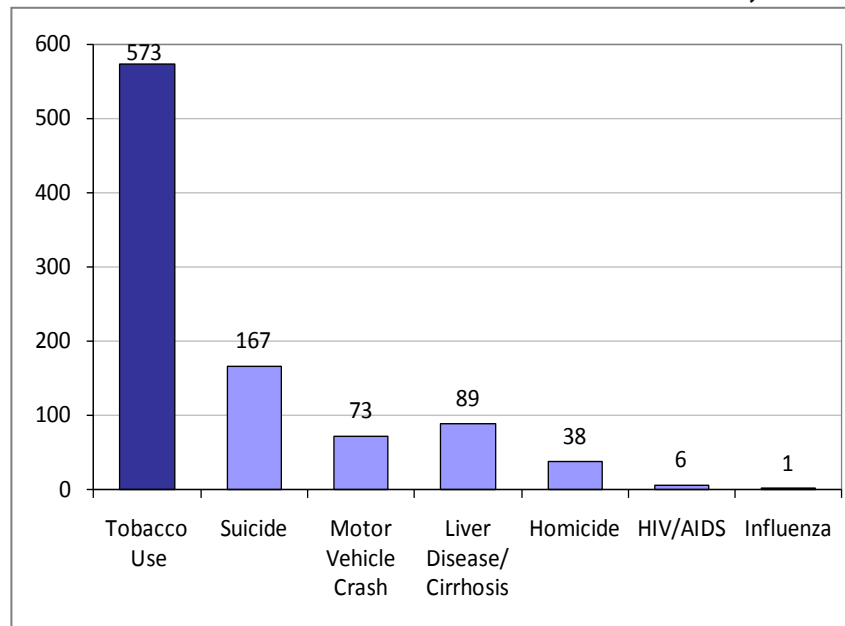
Trends in tobacco use are measured from the baseline year of 1996, prior to two early events in tobacco prevention and control in Alaska: the tobacco tax increase in 1997 and Alaska's decision to join in the national multi-state Tobacco Master Settlement Agreement in 1998. Differences are noted where there is statistical significance ($p < .05$).

The following are highlights from *Alaska Tobacco Facts, 2015 Update*:

- Per adult cigarette consumption declined 59% from State Fiscal Year (SFY) 1996 to SFY 2014; **480 million fewer cigarettes** were sold in 2013 compared to 1996.
- In 2012, tobacco use cost Alaska \$370 million in direct medical expenditures and an additional \$231 million in lost productivity due to tobacco-related deaths.
- **The percentage of adult smokers in Alaska has declined** approximately 24% since 1996 to 21.9 percent in 2013, a statistically significant decrease.
- About 2 in 5 (42%) Alaska Native adults smoke, compared to 1 in 5 (19%) non-Native adults.
- Among non-Native adults age 25 to 64, those of low SES are nearly three times as likely as those of higher SES to be smokers (38% versus 14%).
- The majority of Alaska adults who currently smoke want to quit; over half of smokers tried to quit in the last 12 months.
- **Smoking among high school students has declined** more than 70%, from 37% in 1995 to 11% in 2013.
- Alaska Native high school students—both boys and girls—are significantly more likely to smoke than students from other race groups, although the gap has decreased considerably since 2003.
- Secondhand smoke (SHS) exposure has decreased significantly among children at home, and among high school students at home and other indoor spaces, but 1 in 3 high school students are still regularly exposed to secondhand smoke.
- Among those who work primarily indoors, men, younger adults age 18 to 29 and non-Native adults of low SES are significantly less likely to be protected from SHS by a clean indoor air policy.
- Nearly 9 in 10 Alaska adults (89%) agree that people should be protected from SHS. Support is high even among smokers; 8 in 10 adult smokers (81%) agree that people should be protected from SHS.

I. Tobacco-Related Deaths and Economic Costs

Figure 1. Number of Deaths Due to Selected Causes, Alaska, 2012



Sources: Alaska Bureau of Vital Statistics (2012 deaths); Alaska Behavioral Risk Factor Surveillance System (smoking prevalence); CDC, Smoking Attributable Morbidity, Mortality, and Economic Costs.¹

- More Alaskans die annually from the direct effects of tobacco use than from suicide, motor vehicle crashes, chronic liver disease and cirrhosis, homicide, HIV/AIDS and influenza combined.
- In 2012, tobacco use cost Alaska an estimated \$370 million in direct medical expenditures and an additional \$231 million in lost productivity due to tobacco-related deaths.¹ This sums to an astounding \$601 million, yet it underestimates total costs for Alaska; lost productivity from tobacco-related illness and costs due to second-hand smoke exposure-related illness or death are not included.
- Nationally, exposure to secondhand smoke causes more than 41,000 deaths among nonsmoking adults and 400 deaths in infants each year, and approximately \$5.6 billion annually in lost productivity.^{2,3}

¹ See Appendix B: Data Sources, for information on how smoking-attributable deaths and costs were estimated.

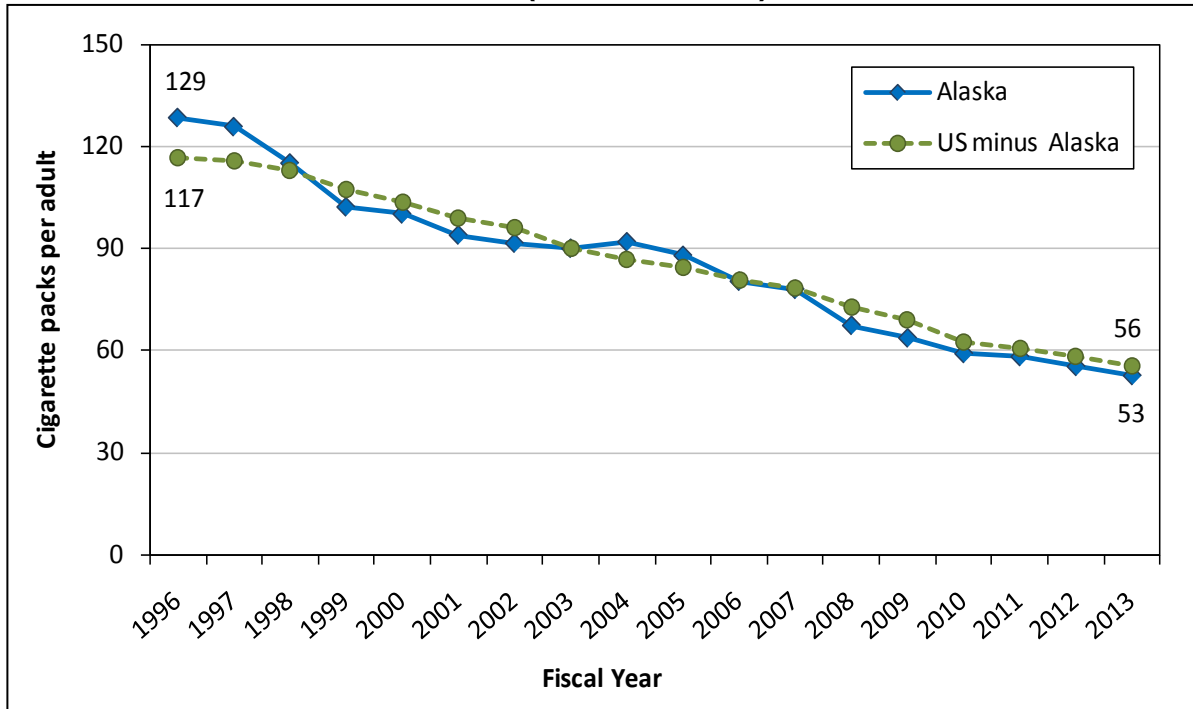
² National death estimates from the U.S. Department of Health and Human Services 2014 report, "The health consequences of smoking: 50 years of progress: a report of the Surgeon General." Available at <http://www.surgeongeneral.gov/library/reports/50-years-of-progress>.

³ Economic cost estimate from Max W, Sung H-Y, Shi Y. Deaths from secondhand smoke exposure in the United States: economic implications. Am J Public Health 2012; 102:2173-80.

II. Adult Tobacco Use

A. Cigarette Consumption

Figure 2. Annual Per Adult Sales of Cigarette Packs, By Fiscal Year, Alaska and US (minus Alaska), 1996 – 2013

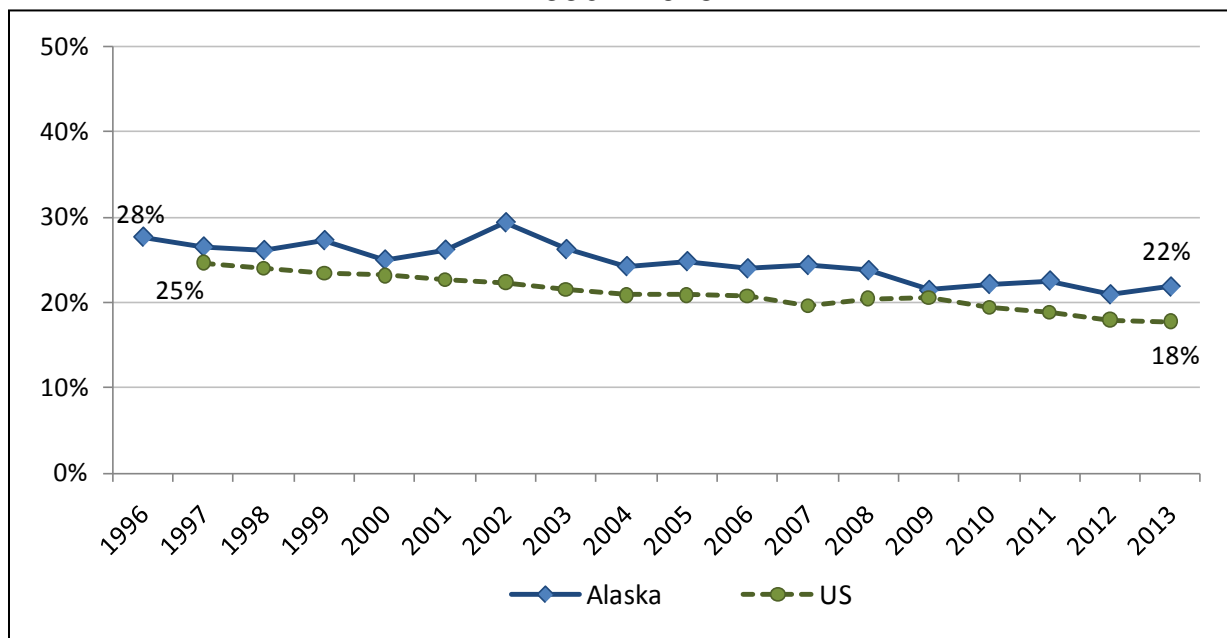


Sources: Alaska Department of Revenue, Tax Division FY13 Reports; Orzechowski & Walker, *The Tax Burden on Tobacco*, 2014 (vol 48).

- Between State Fiscal Years (SFY) 1996 and 2013, the per-adult number of cigarette packs sold in Alaska dropped 59%, from 129 packs to 53 packs per adult.
- This drop in cigarette sales translates to 480 million fewer cigarettes sold in Alaska in 2013 compared to 1996.

B. Smoking Prevalence

Figure 3. Percent of Adults Who Smoke, by Year, Alaska and US, 1996 – 2013

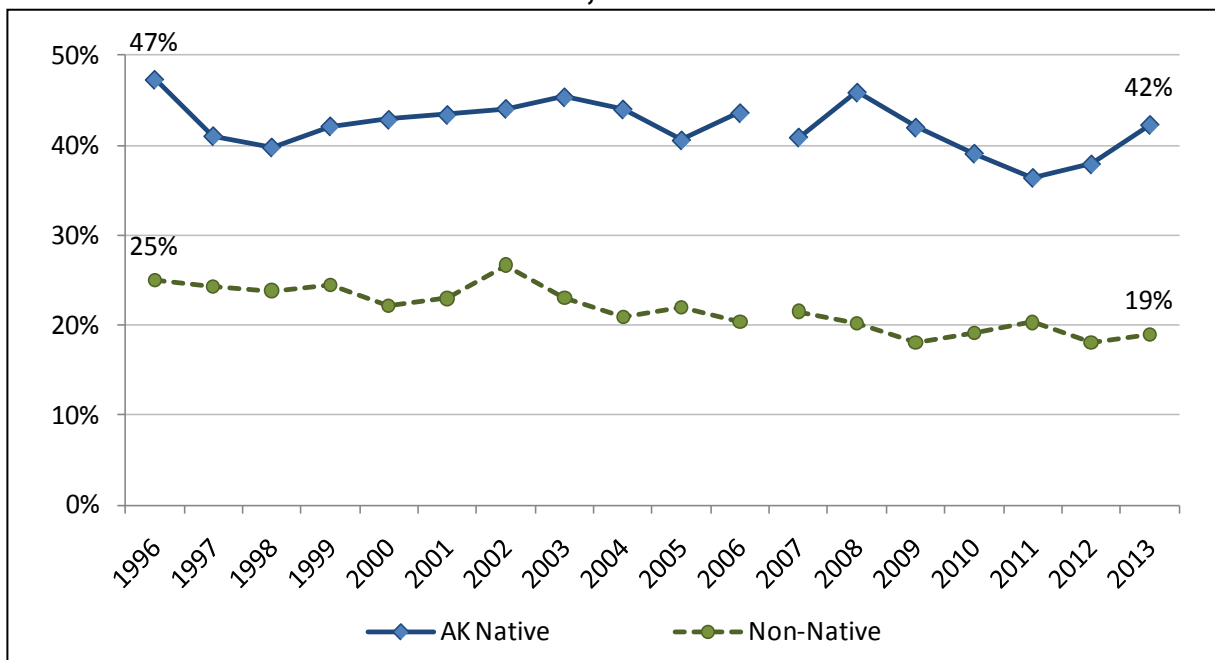


Sources: Alaska Behavioral Risk Factor Surveillance System; National Health Interview Survey BRFSS estimates for 2007 and later use a new weighting method; see Appendix B for more information.

For Alaska:

- Smoking prevalence has declined significantly from 27.7% in 1996 to 21.9% in 2013. Using the 2010 Census information for Alaska, this represents about 30,000 fewer adult smokers in 2013 than in 1996.
- Among women, the proportion of smokers has decreased significantly from 24.2% in 1996 to 19.6% in 2013.
- Among men, the decline in smoking is also significant, falling from 30.8% in 1996 to 23.9% in 2013.
- Between 1998 and 2013, adult smoking prevalence decreased significantly in four regions—the Gulf Coast, Anchorage/Mat-Su, Interior and Southeast Alaska. It also decreased significantly in the Boroughs of Fairbanks North Star Borough and Mat-Su, as well as in the Municipality of Anchorage. See Appendix A Table 2 for further information.

Figure 4. Percent of Adults Who Smoke, by Year and Alaska Native Status, Alaska, 1996 – 2013

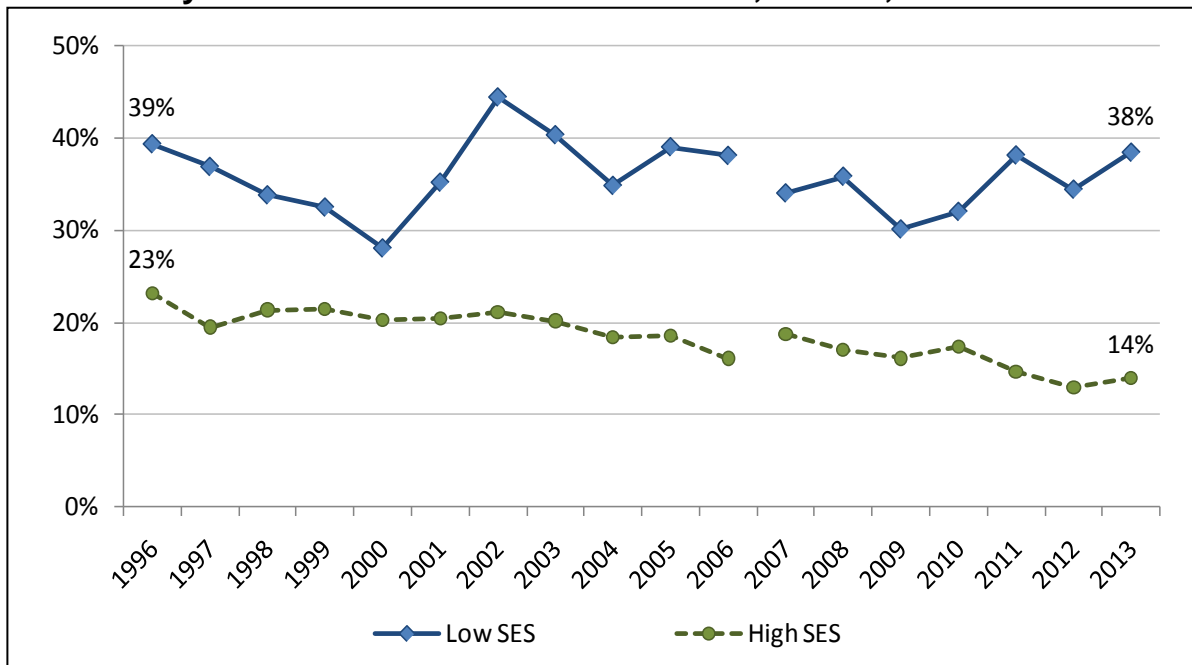


Source: Alaska Behavioral Risk Factor Surveillance System

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- Smoking prevalence has remained high for Alaska Native adults, and has not changed significantly since 1996. Roughly 2 in 5 Alaska Native adults (42.3%) smoked in 2013.
- Among non-Native adults, smoking has decreased significantly from 24.9% in 1996 to 18.9% in 2013.

Figure 5. Percent of Non-Native Adults Age 25-64 Who Smoke, by Year and Socio-Economic Status, Alaska, 1996 – 2013



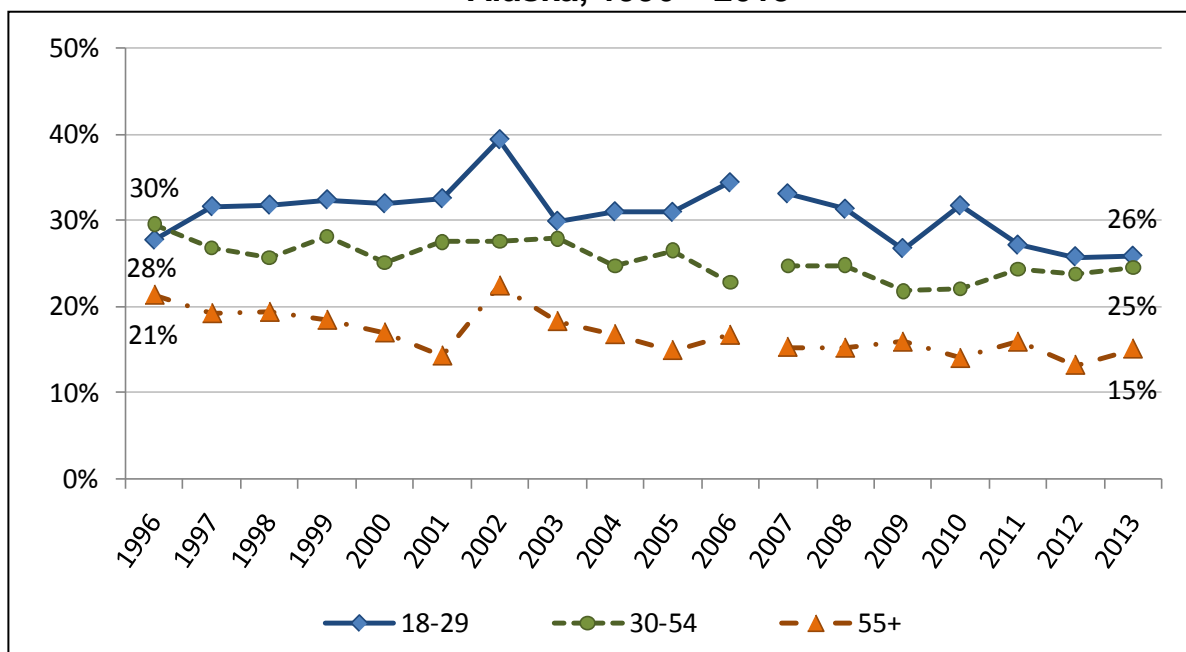
Source: Alaska Behavioral Risk Factor Surveillance System

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- Among non-Native adults age 25 to 64, smoking prevalence has remained high for those of low socio-economic status (SES).⁴
- Among higher SES non-Native adults age 25 to 64, smoking has decreased significantly from 23.2% in 1996 to 14.0% in 2013.

⁴ Lower SES is calculated as those persons with less than a High School education or less than 185% of the Alaska Poverty Level Guideline. Measurement of SES is also restricted to age 25 to 64 because younger adults (age 18-24) may not have had a chance to complete their education and begin to earn an income. Older adults age 65 and over are similarly excluded because income and education might be inadequate SES markers for those who are potentially retired and eligible for Medicare. See Appendix B for more information.

Figure 6. Percent of Adults Who Smoke, by Year and Age Group, Alaska, 1996 – 2013

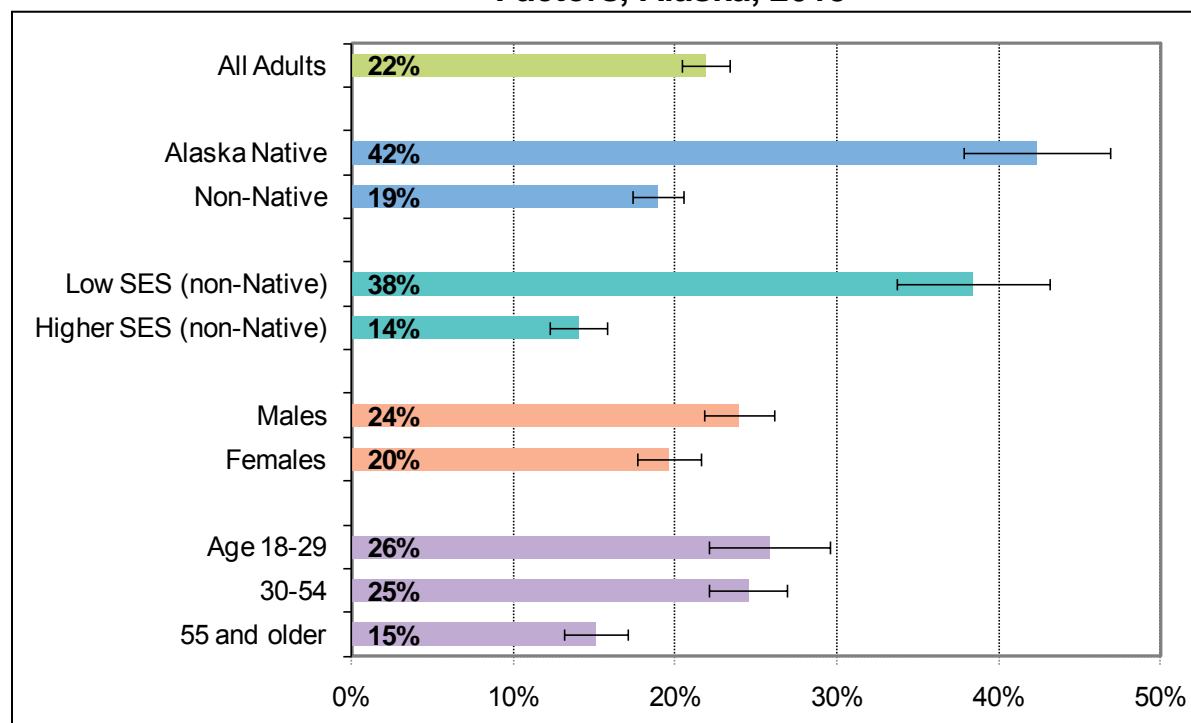


Source: Alaska Behavioral Risk Factor Surveillance System

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- Roughly 1 in 4 Alaska adults age 18 to 29 currently smoke. However, for the first time since 1996, the trend has decreased significantly for this young adult group, from 27.7% in 1996, to an average of 32.6% between 1997 to 2006, to 25.8% in 2013.
- Among adults age 30 to 54, smoking has decreased significantly from 29.6% in 1996 to 24.5% in 2013.
- Smoking also decreased significantly among adults age 55 and older from 21.4% in 1996 to 15.1% in 2013.

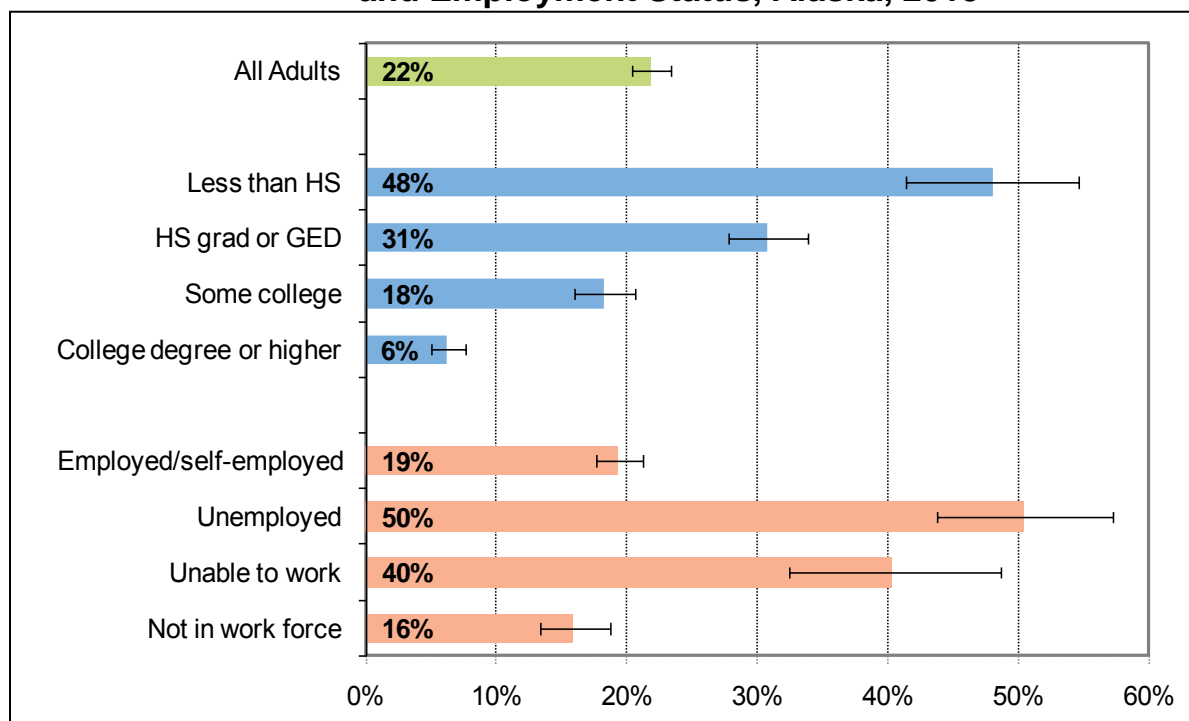
Figure 7. Percent of Adults Who Smoke, by Selected Demographic Factors, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- The graph above shows that adult smoking is significantly higher among non-Native adults of low SES (38.4%) and among Alaska Native adults (42.3%), than their counterparts.
- About 2 in 5 Alaska Native adults currently smoke, compared to 1 in 5 non-Native adults.
- Among non-Native adults age 25 to 64, those of low SES are nearly three times as likely as those of higher SES to be smokers.
- Younger adults remain a priority group for tobacco prevention efforts. In 2013, approximately 1 in 4 young adults age 18 to 29 (25.8%) as well as 1 in 4 adults aged 30 to 54 (24.5%) reported current smoking. This proportion remains significantly higher than the smoking prevalence for adults age 55 and older.
- More than half of adults who were current smokers in 2013 (56.9%) reported that they had started smoking before they were 18 years old.
- Among non-Native current smokers, adults of low SES were significantly more likely than those of higher SES to have started smoking before age 18 (69.3% versus 50.9%).

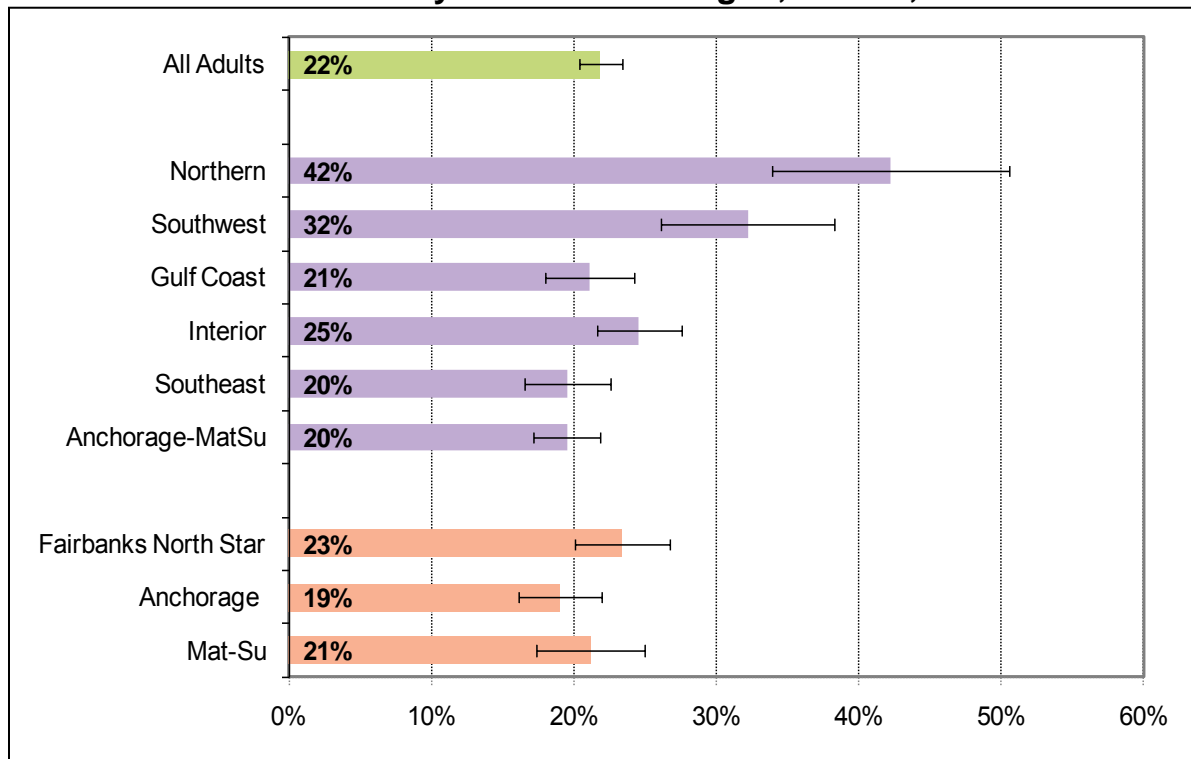
Figure 8. Percent of Adults Who Smoke, by Formal Education Status and Employment Status, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- Smoking is higher among adults with less educational attainment. Those with less than a high school education are about 8 times more likely to smoke than those with a college or higher degree.
- Each increase in level of education from a high school degree or GED, to some college, to a college degree or higher degree, is associated with a significant decrease in smoking prevalence.
- Employment status is another factor related to both SES and smoking. Although unemployed adults and those who are unable to work comprise about 15% of the overall adult population, they are disproportionately more likely to smoke. In 2013, half of unemployed adults (50.4%) reported current smoking. Among adults who are unable to work, 2 in 5 (40.3%) are smokers, whereas only 1 in 5 employed adults (19.3%) are current smokers.
- Those who are not considered to be in the work force are significantly less likely to smoke than unemployed adults or those unable to work. Adults categorized as “not in the work force” include those who reported that they are primarily homemakers, students, or retirees.
- Smoking prevalence is 23.1% among those who identified primarily as homemakers, 16.8% among students, and 11.6% among retirees.

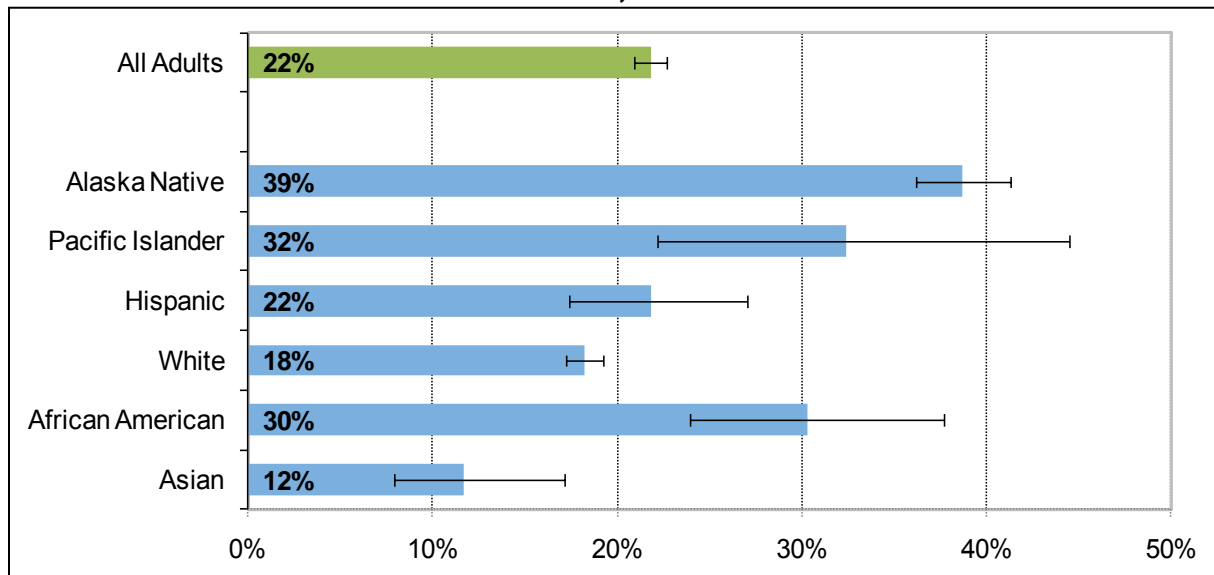
Figure 9. Percent of Adults Who Smoke, by Region and by Selected Boroughs, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- Adults in more rural regions in Alaska – Southwest and Northern Regions – are more likely to smoke than adults in other regions.
- Adults in Interior Alaska are more likely to smoke than those in Anchorage/MatSu and Southeast Alaska.
- Prevalence can also be reported separately for Fairbanks North Star Borough, the Municipality of Anchorage, and Mat-Su Borough; smoking prevalence is not significantly different among these boroughs/municipalities.
- Public Health Regions include:
 - Northern – Nome, Northwest Arctic, and North Slope
 - Southwest – Bristol Bay, East Aleutians, West Aleutians, Dillingham, Lake & Peninsula, Bethel, and Wade Hampton
 - Gulf Coast – Kenai, Kodiak, and Valdez Cordova
 - Interior – Denali, Fairbanks North Star, Southeast Fairbanks, and Yukon Koyukuk
 - Southeast – Yakutat, Skagway, Hoonah-Angoon, Juneau, Sitka, Haines, Wrangell, Petersburg, Prince of Wales-Hyder, and Ketchikan Gateway
 - Anchorage/Mat-Su – Municipality of Anchorage, Matanuska-Susitna Borough

Figure 10. Percent of Adults Who Smoke, by Race/Ethnicity, Alaska, 2011 – 2013



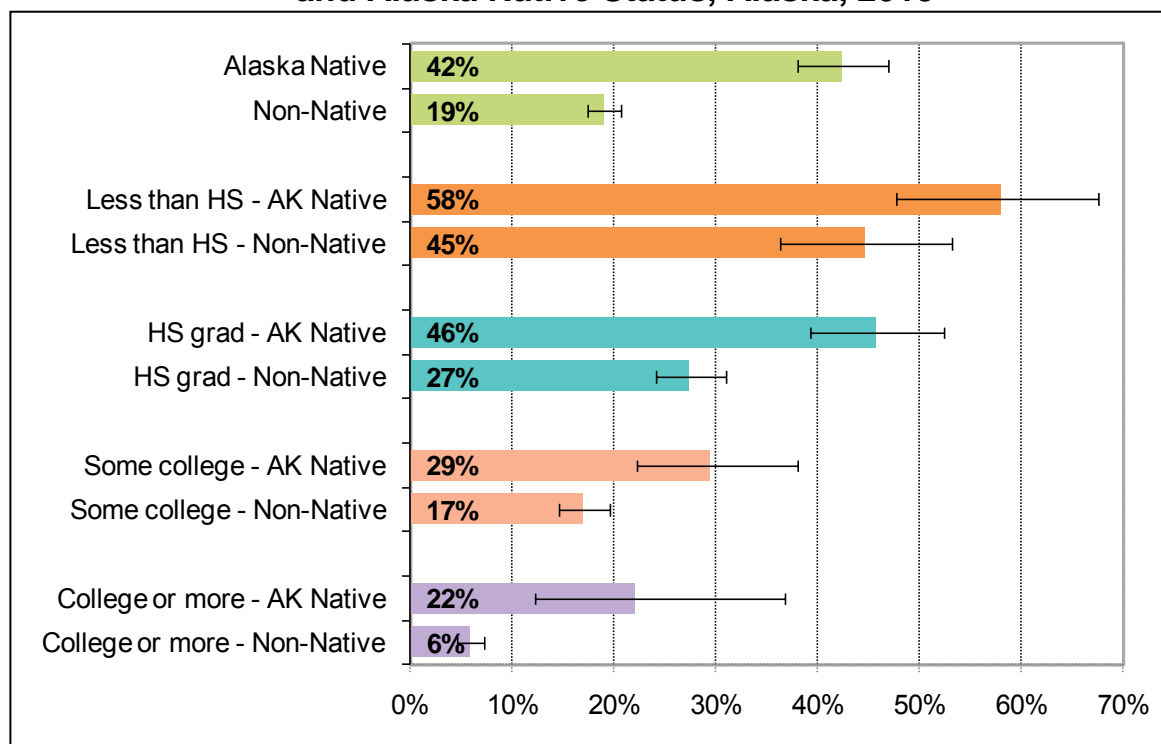
Source: Alaska Behavioral Risk Factor Surveillance System

Note: The race categories of African American, Asian, Pacific Islander, and White do not include respondents of Hispanic ethnicity.

Note also: Percentages reported in this graph are for 2011-2013 combined, and may differ from those reported elsewhere for 2013 only.

- Alaska Native adults are more likely to be smokers than Hispanic, White, African American, or Asian adults.
- Pacific Islander adults are more likely to be smokers than White or Asian adults.
- There is no significant difference in smoking prevalence between White and Hispanic adults.
- Asian adults are significantly less likely to be smokers than adults from any other race or ethnicity group.

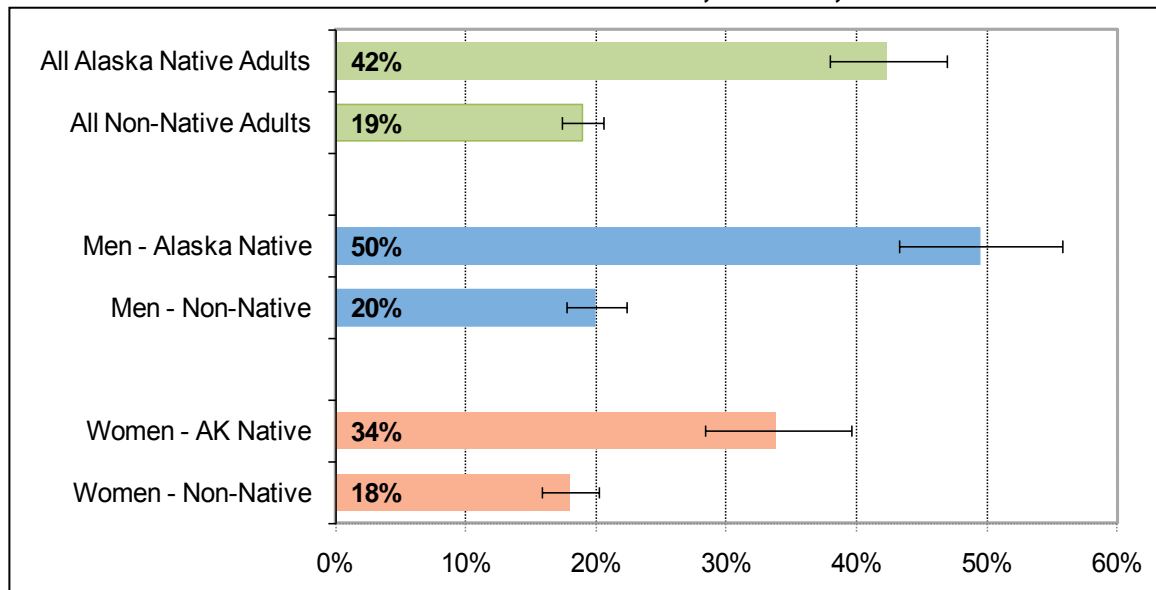
Figure 11. Percent of Adults Who Smoke, by Formal Education Status and Alaska Native Status, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- In Alaska, educational attainment is inversely associated with smoking prevalence among both Alaska Native and non-Native adults.
- Although Alaska Native adults are more likely to smoke than non-Native adults regardless of education, there is no significant difference between the two groups of adults who have less than a high school education. Alaska Native adults who have had some college education or who graduated with a college degree or more are significantly less likely to smoke than Alaska Native adults with a high school degree or less education.
- Among non-Native adults, there are significant differences for each education level; those with more education are less likely to smoke than those with less education.

Figure 12. Percent of Adults Who Smoke, by Gender and Alaska Native Status, Alaska, 2013

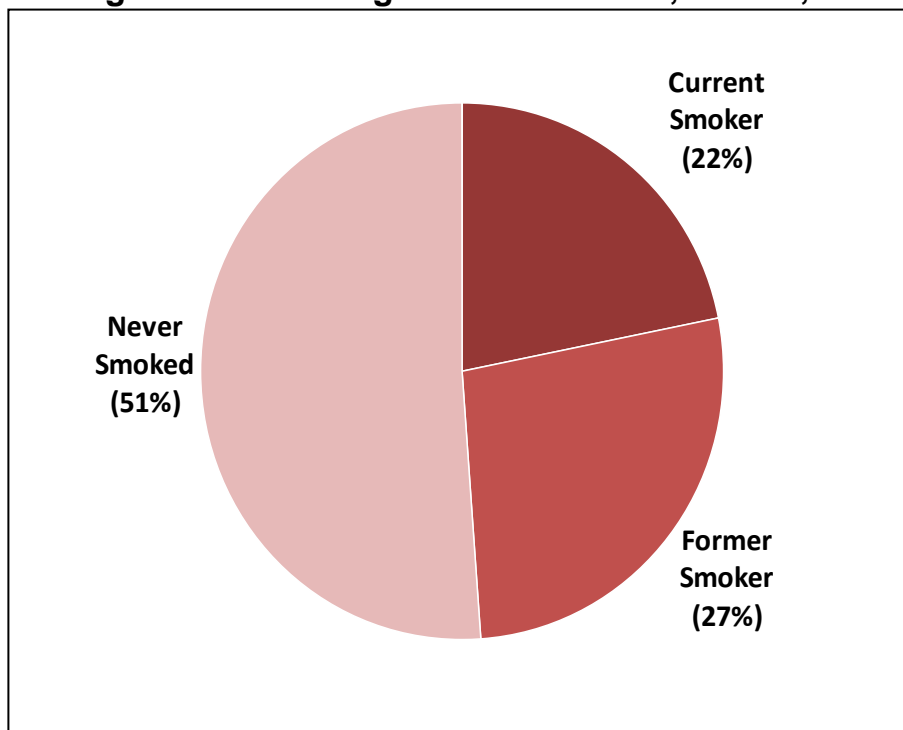


Source: Alaska Behavioral Risk Factor Surveillance System

- In Alaska, there are significant differences in smoking prevalence by Alaska Native status and gender.
- Alaska Native women are significantly less likely to smoke than Alaska Native men; however, smoking prevalence between Non-Native men and women in Alaska is not significantly different.
- Alaska Native women are significantly more likely to smoke than both Non-Native men or women.
- Alaska Native men are significantly more likely to smoke than any of the other race and gender groups.

C. Cessation: Quitting Smoking

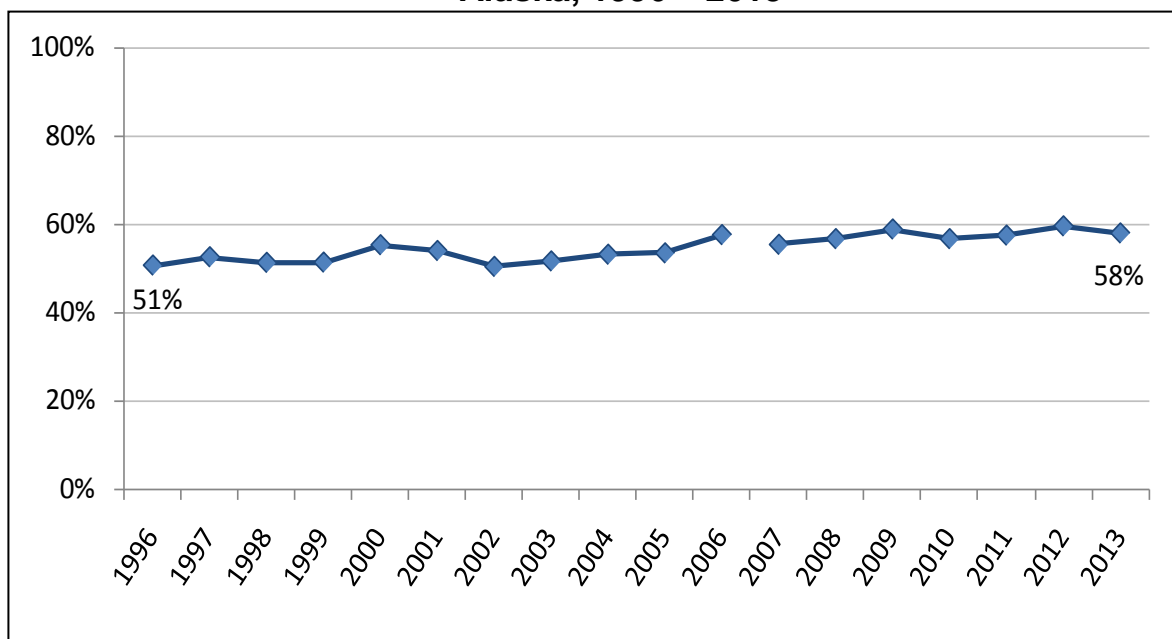
Figure 13. Smoking Status of Adults, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- As the proportion of smokers decreased, the proportion of Alaskans who have never been smokers has increased from 46.3% in 1996 to 51.1% in 2013.
- In 2013, among Alaska Native adults, less than 1 in 3 (30.5%) had never been smokers, compared to more than half (54.1%) of non-Native adults.
- Among non-Native adults age 25 to 64, those of low SES are significantly less likely to never have smoked compared to those of higher SES (39.6% vs 57.3%).

Figure 14. Quit Ratio: Among Adults age 25 or Older, Percent of Former Smokers Who Were Ever Smokers, by Year, Alaska, 1996 – 2013

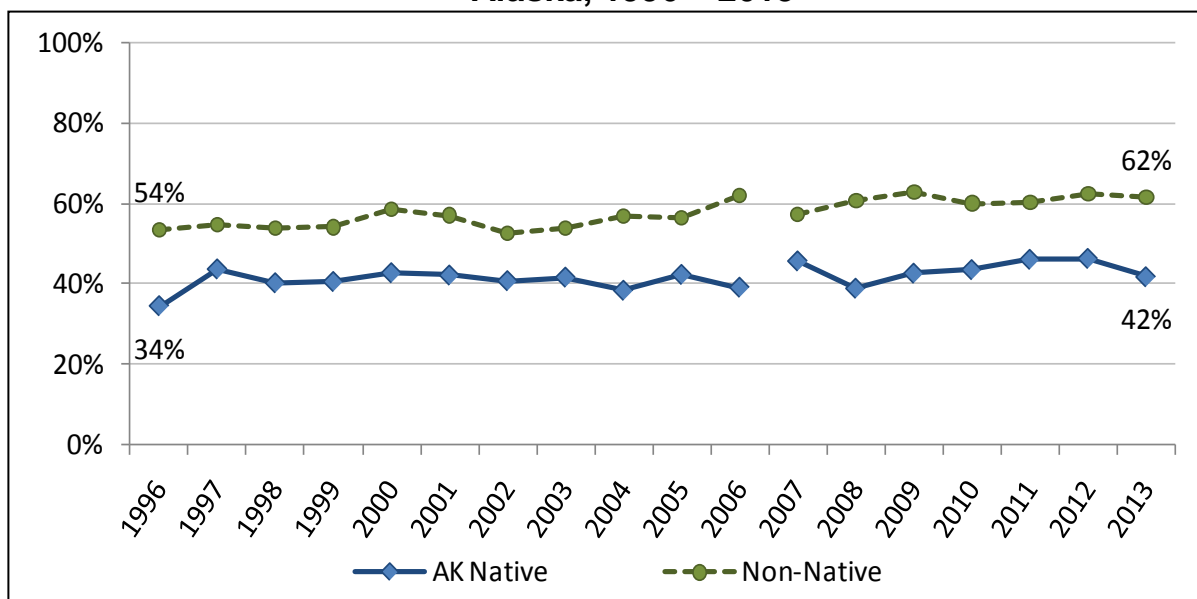


Source: Alaska Behavioral Risk Factor Surveillance System

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- The quit ratio is a measure that shows the proportion of people who have quit smoking among those who have ever been smokers. This measure is reported among adults who are age 25 or older, because the quitting trend is less likely to be affected by changes in initiation of smoking in the slightly older group.
- The quit ratio has increased significantly since 1996. The proportion of ever smokers age 25 or older who have quit smoking increased from 50.8% in 1996 to 58.1% in 2013.
- The quit ratio has increased significantly among men (from 50.4% in 1996 to 58.5% in 2013) and among women (from 51.3% in 1996 to 57.5% in 2013).
- The quit ratio has increased significantly in four regions—the Gulf Coast, Anchorage/Mat-Su, Interior and Southeast Alaska—as well as in the Municipality of Anchorage. See Appendix A Table 3 for more information.

Figure 15. Quit Ratio: Among Adults age 25 or Older, Percent of Former Smokers Who Were Ever Smokers, by Year and Alaska Native Status, Alaska, 1996 – 2013

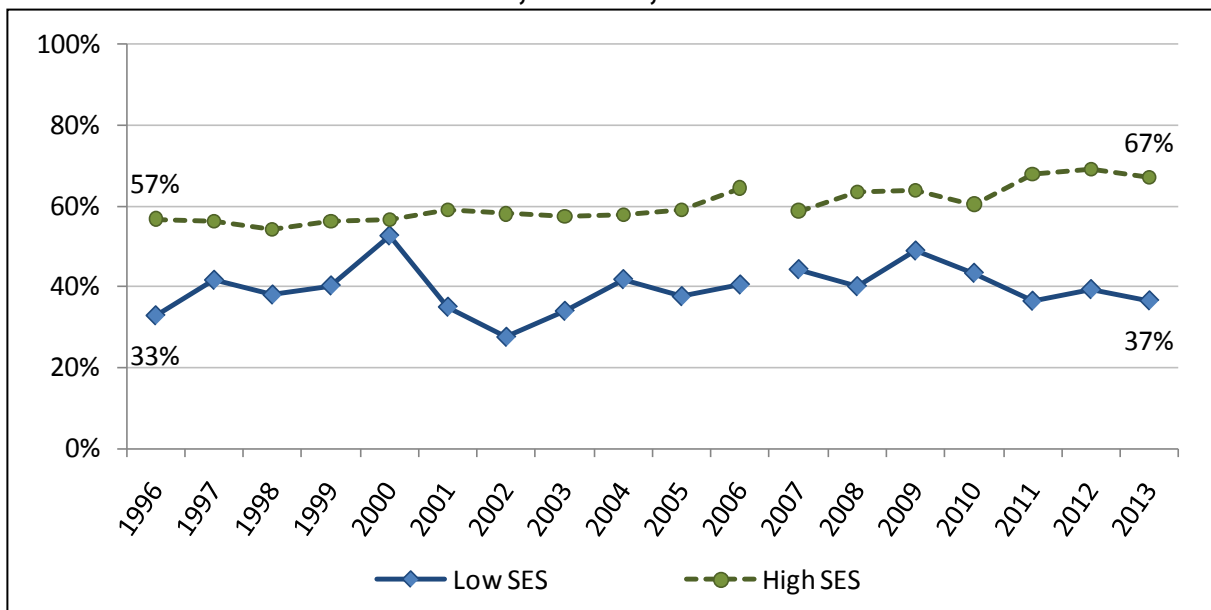


Source: Alaska Behavioral Risk Factor Surveillance System

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- Among adults age 25 and older who ever smoked, the quit ratio has not changed significantly for Alaska Native adults.
- Among non-Native adults age 25 and older, the quit ratio has increased significantly since 1996.
- In 2013, among adults age 25 and older, about 3 in 5 non-Native ever smokers have quit smoking, compared to 2 in 5 Alaska Native ever smokers.

Figure 16. Quit Ratio: Among Non-Native Adults Age 25 to 64, Percent of Former Smokers Who Were Ever Smokers, by Year and Socio-Economic Status, Alaska, 1996 – 2013

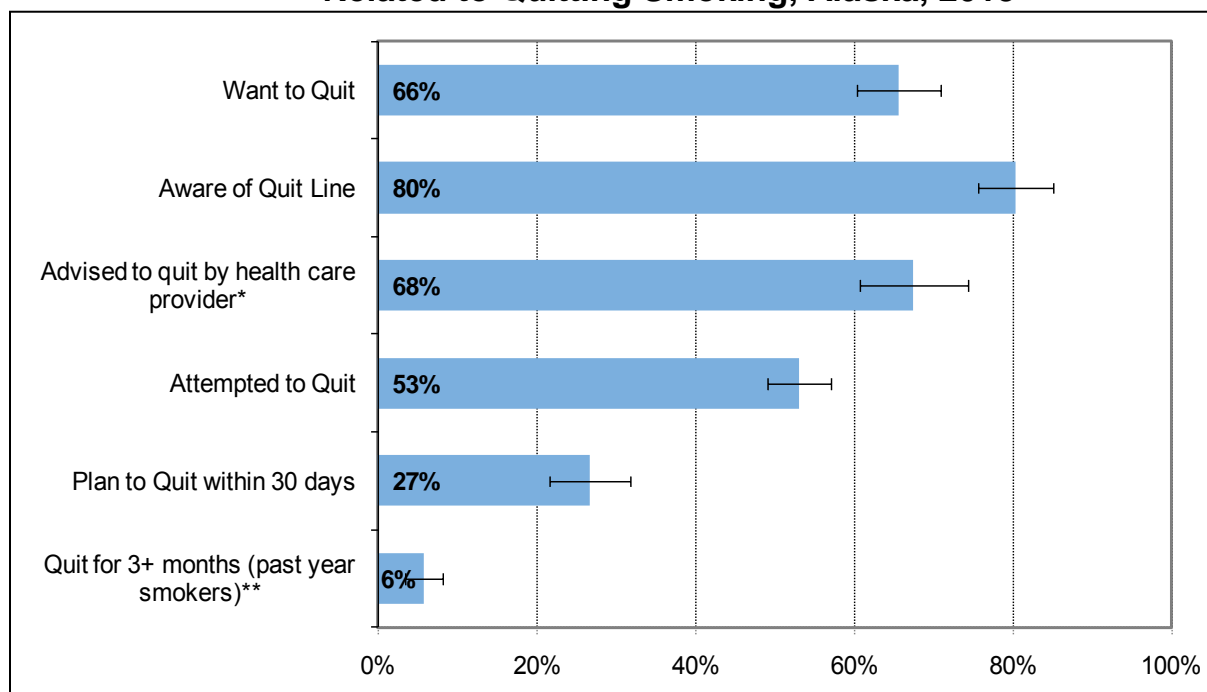


Source: Alaska Behavioral Risk Factor Surveillance System

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- Among non-Native adults age 25 to 64, the quit ratio has not changed significantly for those of low socio-economic status (SES).
- Among higher SES non-Native adults age 25 to 64, the quit ratio has increased significantly since 1996.
- In 2013, among non-Native higher SES adults age 25 to 64 who were ever smokers about 2 in 3 have quit, compared to 1 in 3 low SES adults.

Figure 17. Percent of Adult Smokers Represented in Selected Indicators Related to Quitting Smoking, Alaska, 2013



Sources: Alaska Behavioral Risk Factor Surveillance System

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

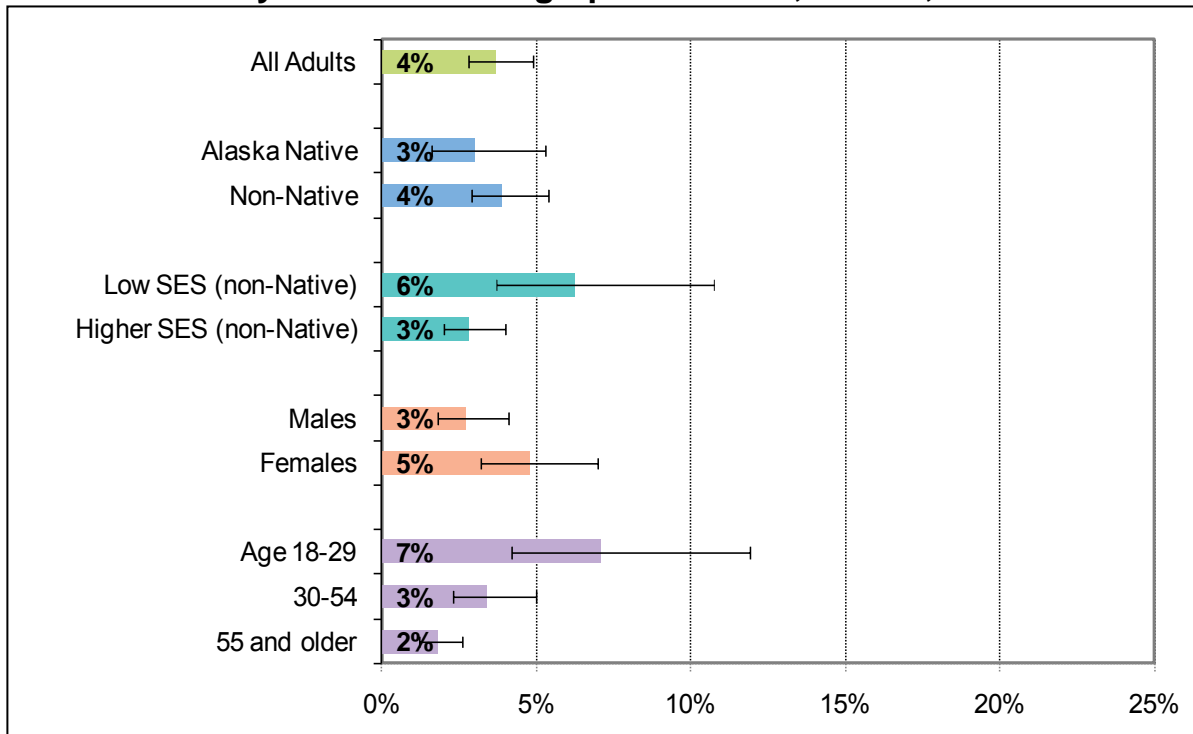
**Among current and former smokers who were smoking in the past year.

- Two-thirds of Alaska adults who currently smoke (66%) want to quit.
- Most Alaska adult smokers (80%) are aware that Alaska has a Tobacco Quit Line that provides free, phone based counseling and nicotine replacement therapy. In 2014, 2,922 Alaska residents called the quit line. Most calls (89%, 2,595 callers) were from tobacco users who requested a cessation intervention.
- Two-thirds of current smokers who had a health care visit in the past 12 months (68%) were advised to quit by a doctor or other health care provider.
- Over half of current smokers (53%) have attempted to quit in the past 12 months; quit attempts were made by nearly half of those who smoke every day (47%) and more than two-thirds of those who smoke some days (69%).
- About 1 in 4 current smokers (27%) reported that they plan to quit within 30 days.
- About 1 in 16 (6%) Alaska adults who smoked in the past year had successfully quit for 3 or more months. Results were not significantly different for Alaska Natives and non-Natives or by SES status among non-Natives. Being able to stay quit for 3 or more months greatly increases the chances of quitting tobacco for life.⁵

⁵ Hughes JR, Keely J, Naud S. Shape of the relapse curve and long-term abstinence among untreated smokers. *Addiction*. 2004;99:29-38.

D. Use of E-Cigarettes and Other Vapor Products

Figure 18. Percent of Adults Who Used E-Cigarettes in the Past 30 Days, by Selected Demographic Factors, Alaska, 2013

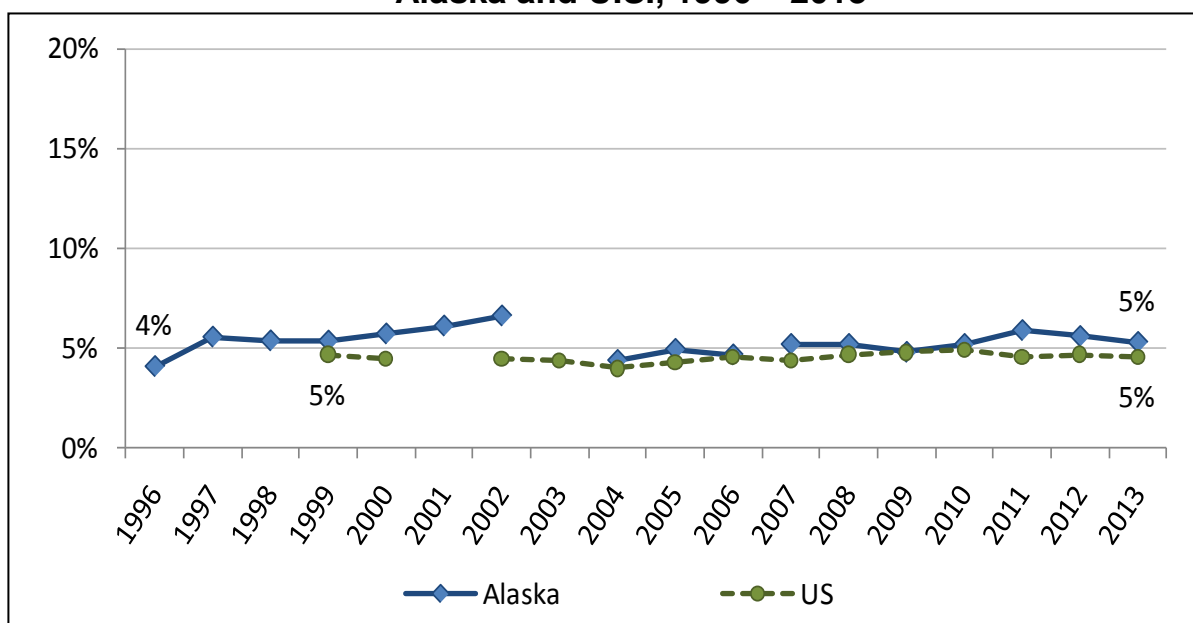


Source: Alaska Behavioral Risk Factor Surveillance System

- Although only 3.7% of Alaska adults report current use of e-cigarettes in 2013, the proportion has grown significantly since 2010, when less than 1% reported using e-cigarettes.
- Among non-Native adults age 25 to 64, those of low SES are significantly more likely than those of higher SES to use e-cigarettes (6.4% vs 2.5%).
- Women are significantly more likely than men to report e-cigarette use (4.8% vs 2.7%).
- Young adults age 18 to 29 are significantly more likely than adults age 30 to 54 or older adults (age 55 and older) to use e-cigarettes (7.1% vs 3.4% and 1.8%).
- Among Alaska adults in 2013, current smokers of regular cigarettes are more likely than non-smokers to report using e-cigarettes (14.4% vs 0.7%).

E. Smokeless Tobacco Prevalence

Figure 19. Percent of Adults Who Use Smokeless Tobacco, by Year, Alaska and U.S., 1996 – 2013



Source: Alaska Behavioral Risk Factor Surveillance System and Substance Abuse and Mental Health Services Administration National Survey on Drug Use and Health (NSDUH), smokeless tobacco use in the past year; <http://www.samhsa.gov/data/population-data-nsduh>. State estimates for 2007 and later use a new weighting method; see Appendix B for more information.

Note: Question about SLT use was not asked in 2003 in the Alaska BRFSS, and there are no national NSDUH data posted for SLT use for 1996-1998 and 2001.

- Use of smokeless tobacco (SLT) in Alaska has not changed significantly between 1996 and 2013 overall or by gender. SLT use is higher among men (8.7%) than women (1.6%).
- Nationally, an estimated 4.6% of adults used SLT within the past year; with use higher among men (8.7%) than women (0.7%).

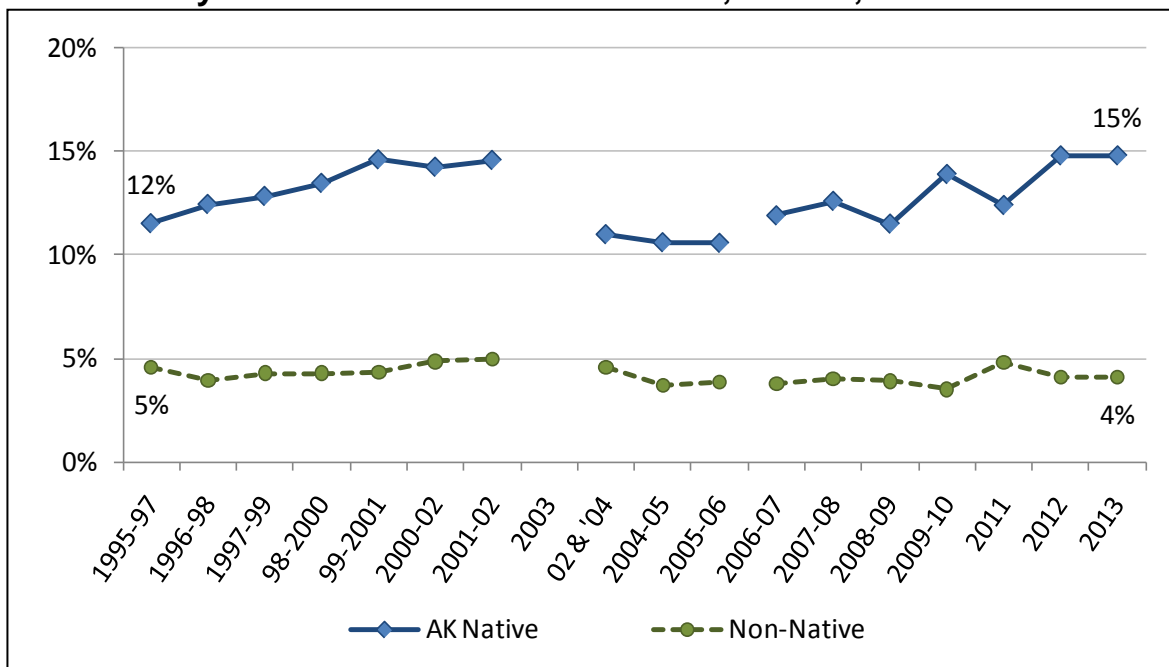
Source: Substance Abuse and Mental Health Services Administration. Results from the 2013 National Survey on Drug Use and Health: Detailed Tables, Table 2.31B. Rockville, MD: Substance Abuse and Mental Health Services Administration, Center for Behavioral Health Statistics and Quality; 2013; <http://www.samhsa.gov/data/population-data-nsduh>.

- SLT use is a known cause of cancer of the mouth and gum, and is linked to oral health problems like periodontitis and tooth loss.

Source: International Agency for Research on Cancer (IARC). Summaries and Evaluations Tobacco Products, Smokeless (Group 1); February 1998.

- Estimates of SLT use differ significantly by region. The only region to show a significant change over time is Southeast Alaska, where SLT use has decreased from 4.6% in 1998 to 2.7% in 2013. See Appendix A Table 4 for more information.

Figure 20. Percent of Adults Who Use Smokeless Tobacco, by Year and Alaska Native Status, Alaska, 1996 – 2013



Source: Alaska Behavioral Risk Factor Surveillance System

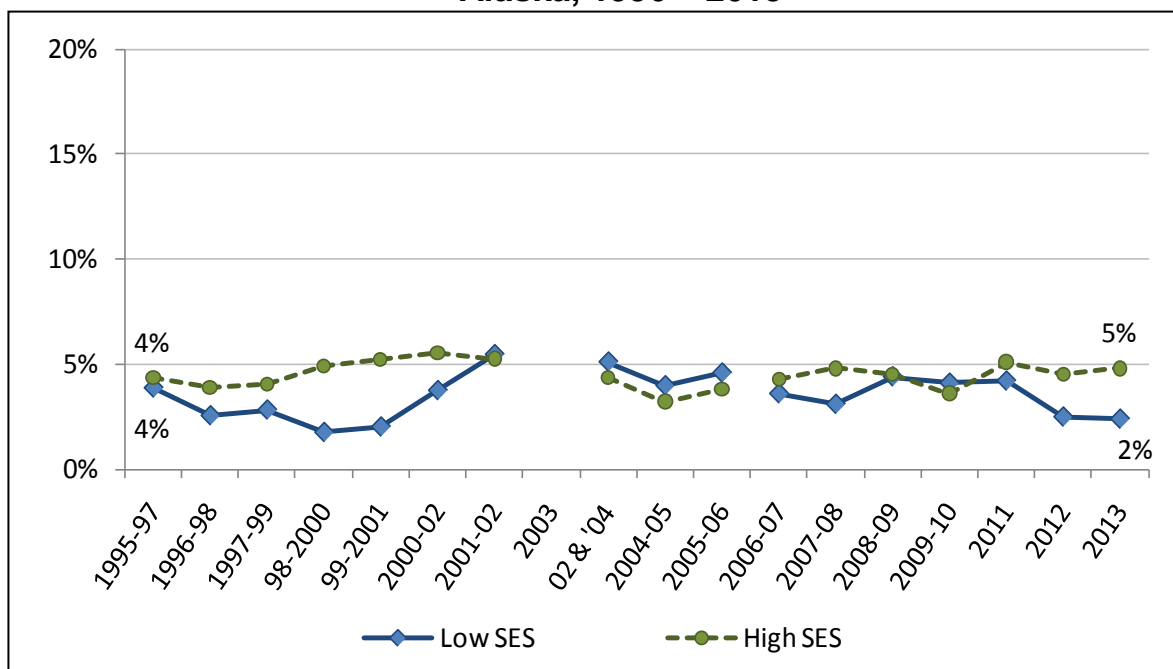
Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

SLT use estimates by Alaska Native status are reported using combined year averages until 2011. See Appendix A Table 4 for more information.

Note: Question was not asked in 2003.

- Alaska Native adults are more likely to use smokeless tobacco than non-Native adults, but there have been no significant changes in prevalence for either group, between 1996 and 2013.

Figure 21. Percent of Non-Native Adults Age 25-64 Who Use Smokeless Tobacco, by Year and Socio-Economic Status, Alaska, 1996 – 2013



Source: Alaska Behavioral Risk Factor Surveillance System

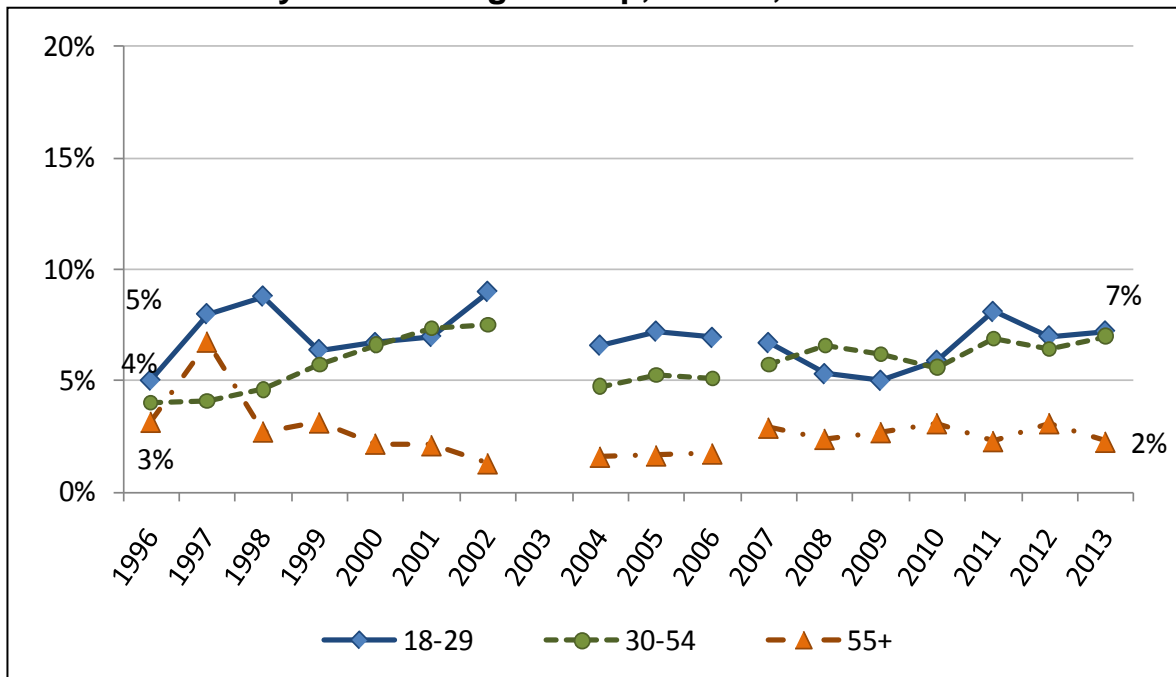
Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

SLT use estimates for non-Native Alaska adults by Socio-Economic Status are reported using combined year averages until 2011. See Appendix A Table 4 for more information.

Note: Question was not asked in 2003.

- Among non-Native adults age 25 to 64, the prevalence of smokeless tobacco use has not changed significantly between 1996 and 2013. This is true for both low SES and higher SES non-Native adults.

Figure 22. Percent of Adults Who Use Smokeless Tobacco, by Year and Age Group, Alaska, 1996 – 2013

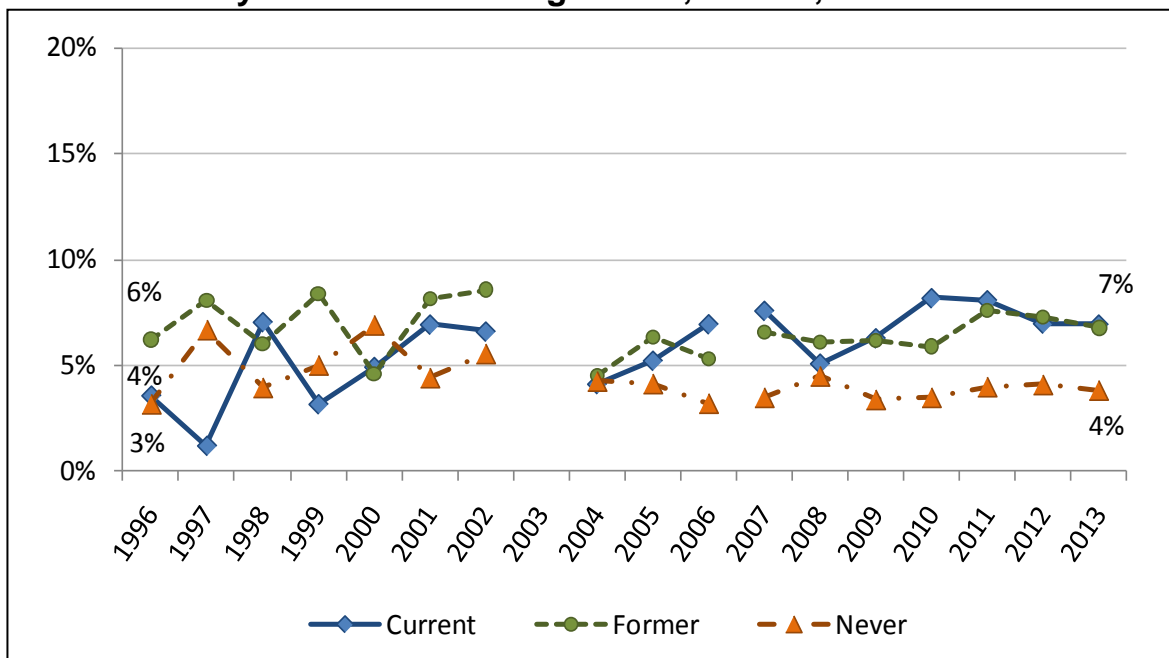


Source: Alaska Behavioral Risk Factor Surveillance System
 Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

Note: Question was not asked in 2003.

- Use of smokeless tobacco increased slightly among adults age 30 to 54, from 4.0% in 1996 to 6.5% in 2013.

Figure 23. Percent of Adults Who Use Smokeless Tobacco, by Year and Smoking Status, Alaska, 1996 – 2013



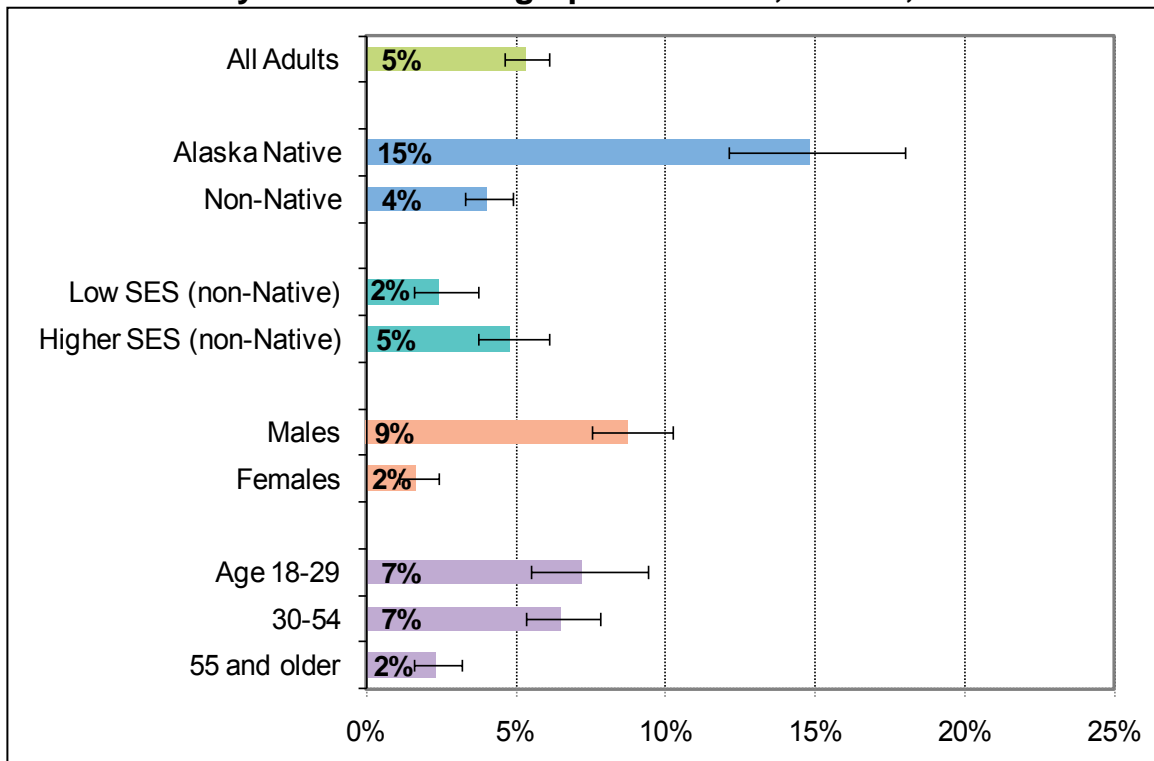
Source: Alaska Behavioral Risk Factor Surveillance System

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

Note: Question was not asked in 2003.

- Use of smokeless tobacco has increased significantly among current smokers from 3.6% in 1996 to 7.0% in 2013.
- Between 1996 and 2013, use of smokeless tobacco has not changed significantly among former smokers, but there is a significant decrease among adults who have never been smokers (from an average of 4.7% during 1996 to 1999 to an average of 3.9% during 2010 to 2013).

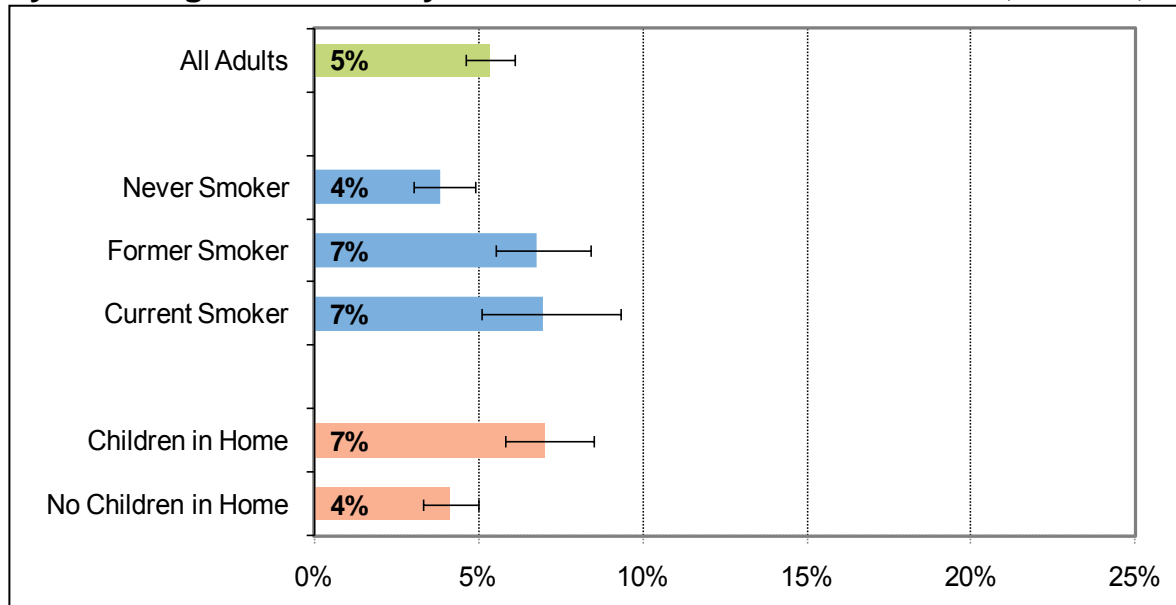
Figure 24. Percent of Adults Who Use Smokeless Tobacco, by Selected Demographic Factors, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- Use of smokeless tobacco is significantly higher among Alaska Native adults; about 3 in 20 report smokeless tobacco use compared to 1 in 20 non-Native adults (14.8% vs 4.0%).
- Among non-Native adults age 25 to 64, those of higher SES are significantly more likely than those of low SES to use smokeless tobacco (4.8% vs 2.4%).
- Men are significantly more likely than women to use smokeless tobacco (8.7% vs 1.6%).
- Young adults age 18 to 29 and middle-aged adults (age 30 to 54) are significantly more likely than older adults (age 55 and older) to use smokeless tobacco (7.2% and 6.5% vs 2.3%).

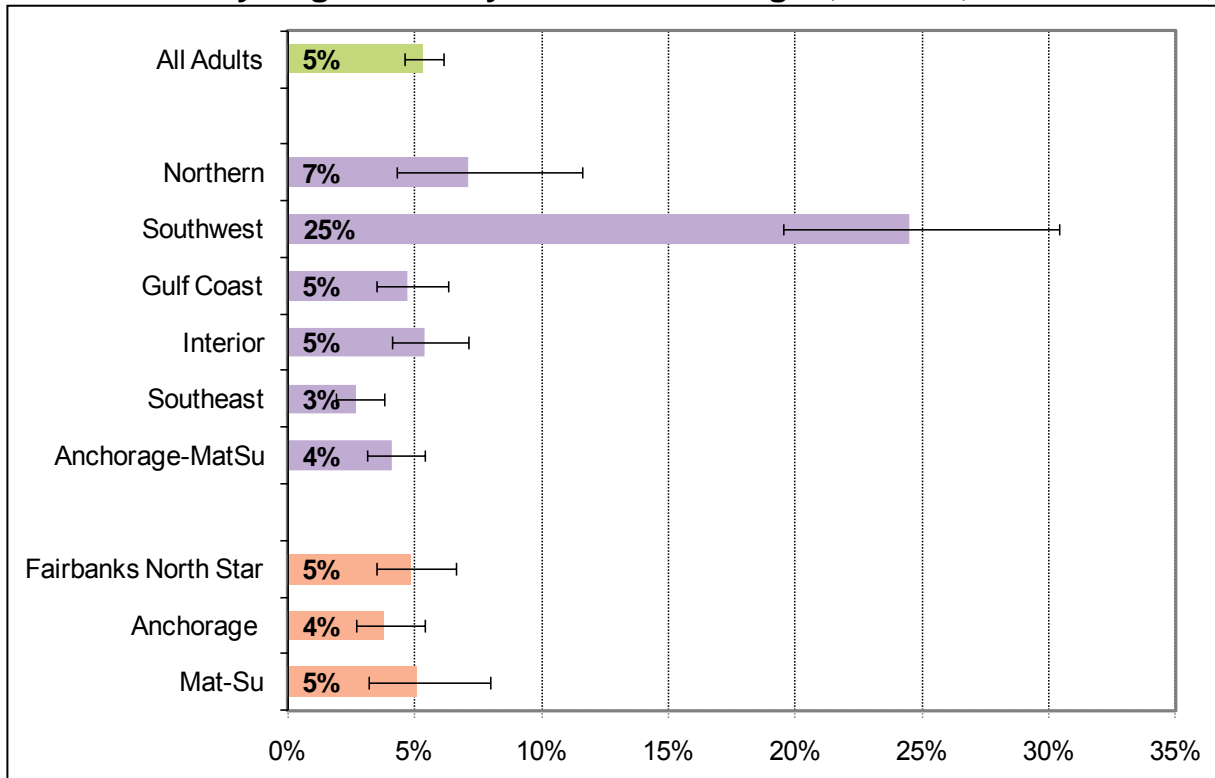
Figure 25. Percent of Adults Who Use Smokeless Tobacco, by Smoking Status and by Presence of Children in the Home, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- Adults who have never been smokers are significantly less likely than current or former smokers to use smokeless tobacco (3.8% vs 7.0% and 6.8%).
- Adults living with children in their home are significantly more likely than those without children in the home to use smokeless tobacco (7.0% vs 4.1%).

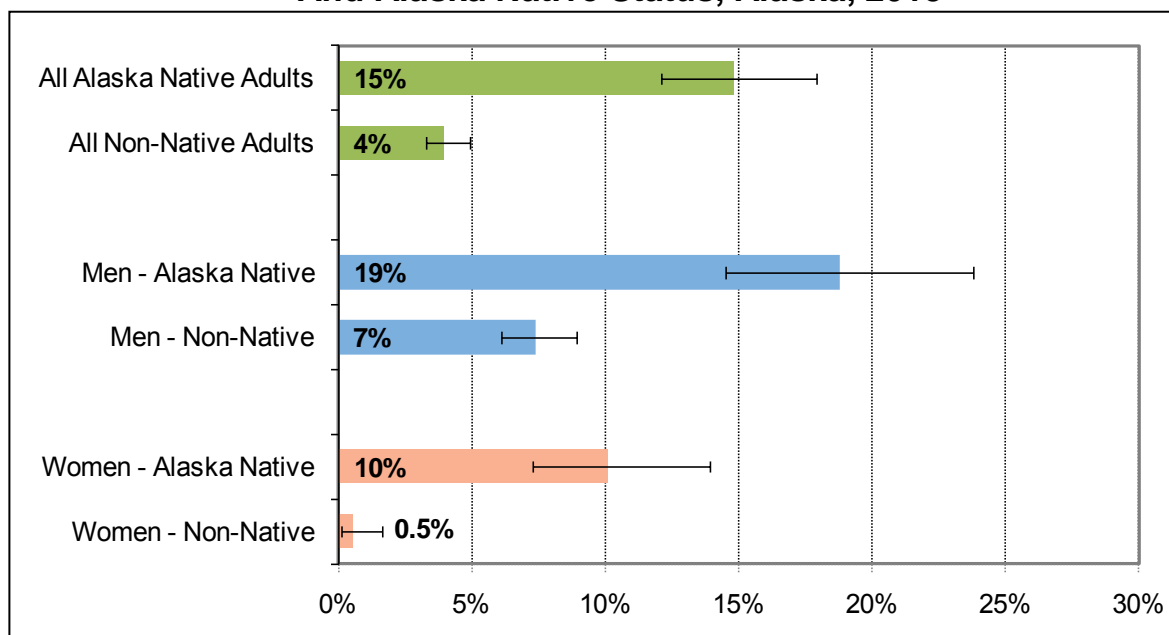
Figure 26. Percent of Adults Who Use Smokeless Tobacco, by Region and by Selected Boroughs, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- Adults in Southwest Alaska are significantly more likely to use smokeless tobacco than adults in any other region. In 2013, about 2 in 5 Alaska Native adults (41.3%) in Southwest Alaska used SLT, compared to 4.5% of non-Native adults in the region.
- Adults in Northern Alaska are significantly more likely to use SLT than those in Southeast Alaska.

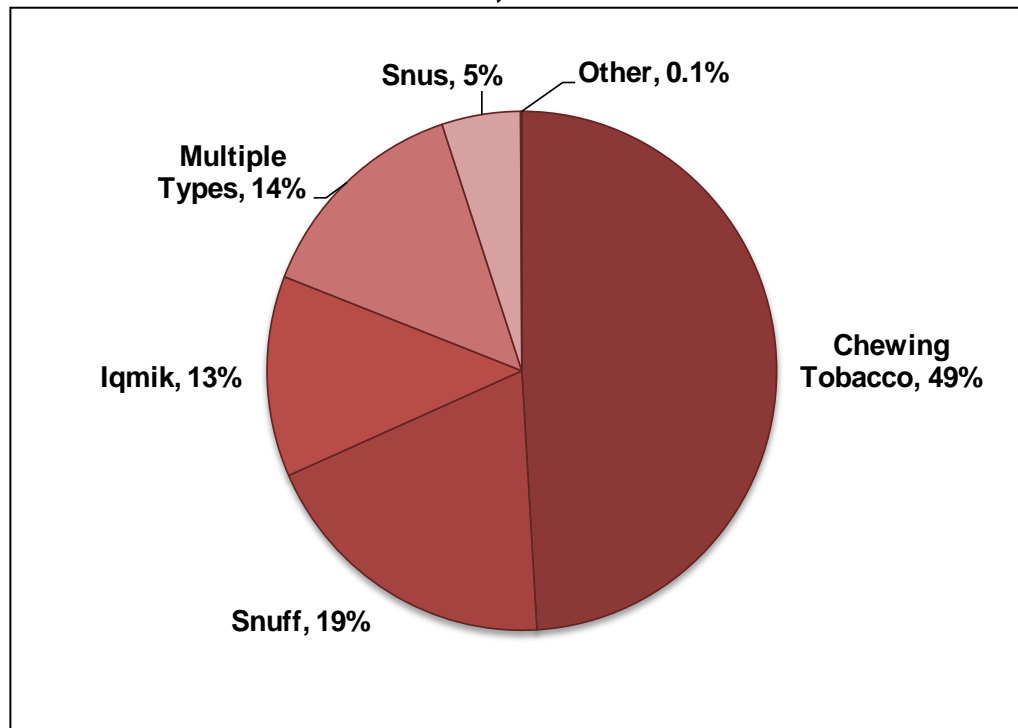
Figure 27. Percent of Adults Who Use Smokeless Tobacco, by Gender And Alaska Native Status, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- Men use smokeless tobacco more than women, but Alaska Native women are at least as likely to use smokeless tobacco as non-Native men (10.1% vs. 7.4%, respectively).
- Among Alaska Native adults, men are significantly more likely than women to use smokeless tobacco (18.8% vs 7.4%).

Figure 28. Type of Smokeless Tobacco Used by Adults, Alaska, 2013

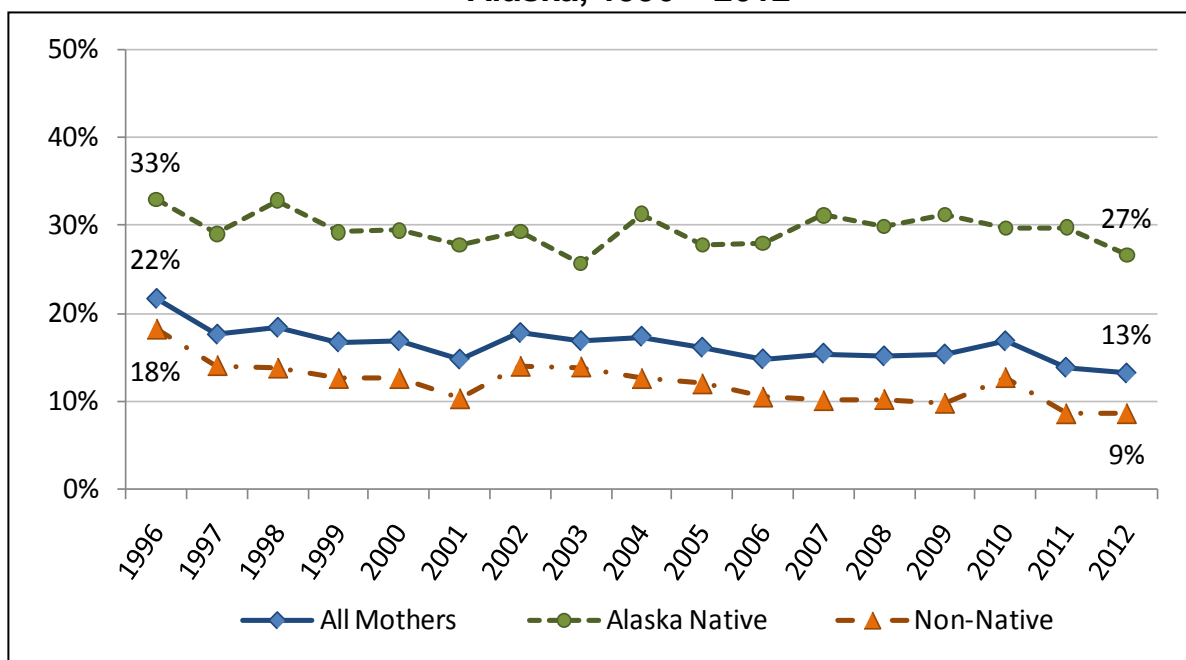


Source: Alaska Behavioral Risk Factor Surveillance System

- In 2013, about half of Alaska adults who use smokeless tobacco (49.1%) reported using only “chewing tobacco”. Chewing tobacco accounts for 21% of Alaska Native and 66% of non-Native adult SLT use.
- In 2013, 13% of adults who use smokeless tobacco reported using Iqmik. Iqmik, also known as Blackbull, is an Alaska-specific SLT variant prepared by mixing chewing tobacco with the ash of a punk fungus. Iqmik is used primarily by Alaska Native groups in the Southwest region of Alaska. Statewide, 32% of Alaska Native SLT users report using only Iqmik (compared to 1% of non-Native SLT users).

F. Tobacco Use During Pregnancy

Figure 29. Percent of Alaska Mothers who Smoked Cigarettes during the Last 3 Months of Pregnancy, by Year and Alaska Native Status, Alaska, 1996 – 2012



Source: Alaska Pregnancy Risk Assessment Monitoring System (PRAMS)

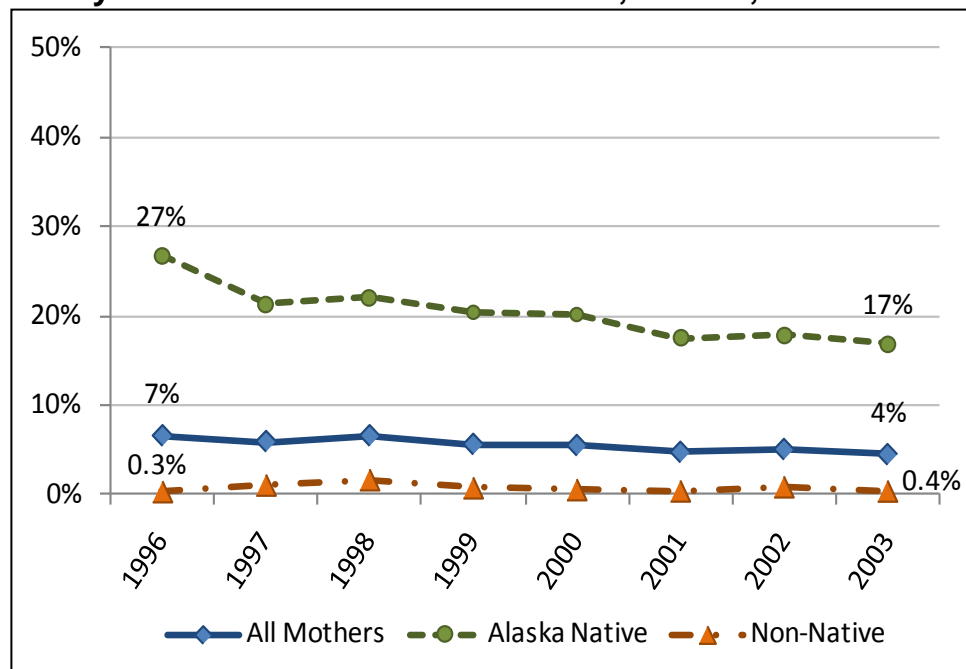
- Prenatal smoking (maternal smoking during pregnancy) accounts for 20-30% of all low birth weight births in the United States. According to the 2004 Surgeon General's Report, eliminating maternal smoking may lead to a 10% reduction in all sudden infant deaths and a 12% reduction in deaths from perinatal conditions.

Source: The Health Consequences of Smoking: A Report of the Surgeon General. 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, 2004.

- Overall, maternal cigarette use during pregnancy in Alaska has decreased significantly from 21.6% in 1996 to 13.1% in 2012, as well as among non-Native women (from 18% to 9%).
- Prenatal smoking prevalence has not changed significantly among Alaska Native women. Among Alaska Native women, for the period 2004 to 2008, prenatal smoking prevalence was significantly higher in four tribal health regions: Arctic Slope, Bristol Bay, Northwest Arctic, and Norton Sound.

Source: Young MB, Perham-Hester KA, Kemberling MM. Alaska Maternal and Child Health Data Book 2011: Alaska Native Edition. Anchorage, AK: A collaboration of the Alaska Department of Health and Social Services, Division of Public Health, and the Alaska Native Tribal Health Consortium, Alaska Native Epidemiology Center. October 2011.

Figure 30. Percent of Alaska Mothers who Used Smokeless Tobacco during Pregnancy, including Chew and/or Snuff Use, by Year and Alaska Native Status, Alaska, 1996 – 2003



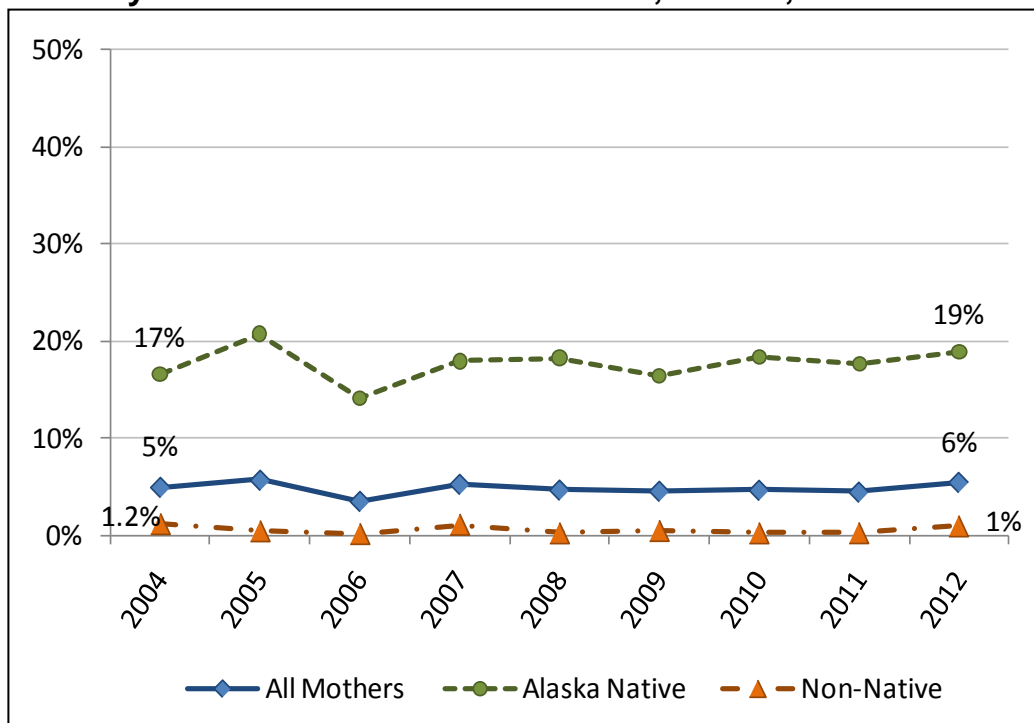
Source: Alaska Pregnancy Risk Assessment Monitoring System (PRAMS)

Note: Prior to 2004, survey questions about SLT use in PRAMS asked about smokeless tobacco use (chew or snuff) and did not specifically include Iqmik. For this reason, information about smokeless tobacco or spit tobacco use is presented in separate trend tables.

- Between 1996 and 2003 there was a statistically significant decline in prenatal smokeless tobacco (SLT) use among Alaska Native women, from 26.7% to 16.9%. Prenatal SLT use among non-Native women stayed below 2% during this time period.

Source: Schoellhorn KJ, Perham-Hester KA, Goldsmith YW. Alaska Maternal and Child Health Data Book 2008: Health Status Edition. Anchorage, AK. Maternal and Child Health Epidemiology Unit, Section of Women's, Children's, and Family Health, Division of Public Health, Alaska Department of Health and Social Services. December 2008.

Figure 31. Percent of Alaska Mothers who Used Smokeless Tobacco during Pregnancy, including Chew, Snuff and/or Iqmik Use, by Year and Alaska Native Status, Alaska, 2004 – 2012



Source: Alaska Pregnancy Risk Assessment Monitoring System (PRAMS)

Note: Since 2004, PRAMS questions about smokeless tobacco (SLT) use during pregnancy have included language about Iqmik as well as spit tobacco, chew or snuff. Iqmik is an Alaska-specific type of SLT and is prepared by mixing chewing tobacco with the ash of a punk fungus.

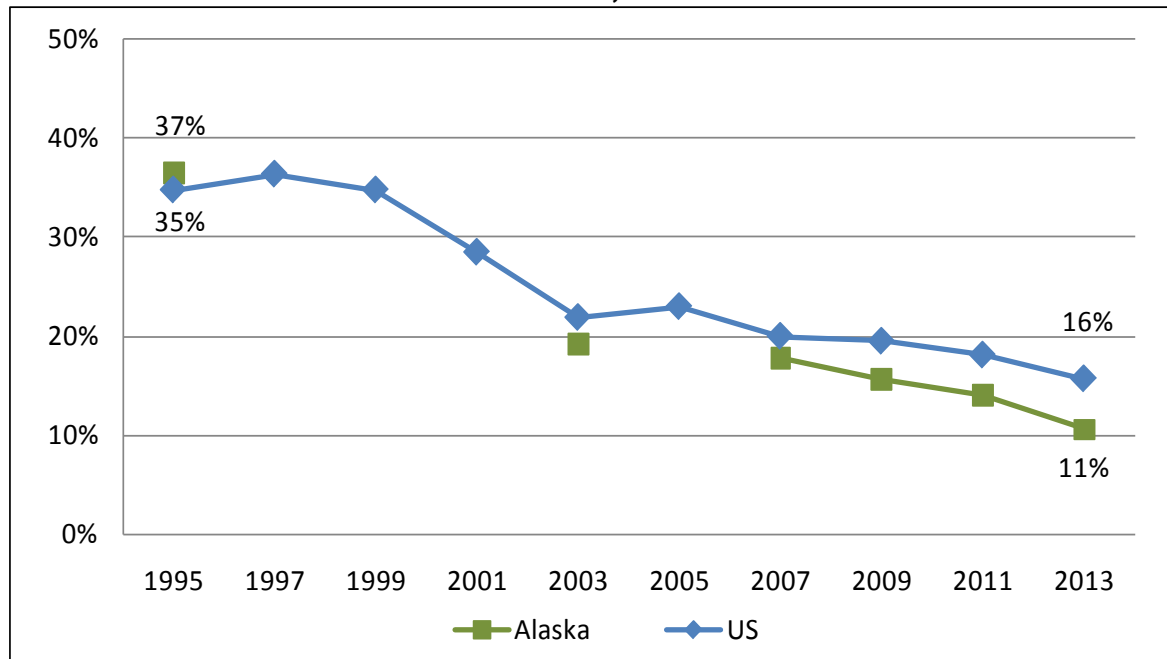
- Between 2004 and 2012, prenatal use of SLT did not change significantly overall or by Alaska Native status. SLT use during pregnancy is higher in Alaska than in many other states, in large part because of Alaska Native SLT use, including Iqmik, an Alaska-specific SLT variant.
- During 2004-2012, prenatal SLT (spit tobacco or Iqmik) use among Alaska Native women ranged between 14.1% (in 2006) and 20.8% (in 2005), but there was no significant trend during the nine-year period. About 2 in 3 (64%) Alaska Native mothers who used SLT during pregnancy reported using Iqmik either alone or in addition to other SLT products.
- Iqmik is primarily used among Alaska Native people in Southwest Alaska. For the period 2007 to 2011, 53.4% of Alaska Native mothers residing in the Yukon-Kuskokwim tribal health region reported prenatal SLT use. In neighboring regions, 23.0% of Alaska Native mothers in Bristol Bay and 13.4% in Norton Sound also reported prenatal SLT use. In other tribal health regions, prenatal SLT use ranged from less than 1% in Southeast to 6.3% in Southcentral.

Source: Alaska Pregnancy Risk Assessment Monitoring System (PRAMS), 2007-2011.

III. Youth Tobacco Use

A. Smoking Prevalence – Cigarettes

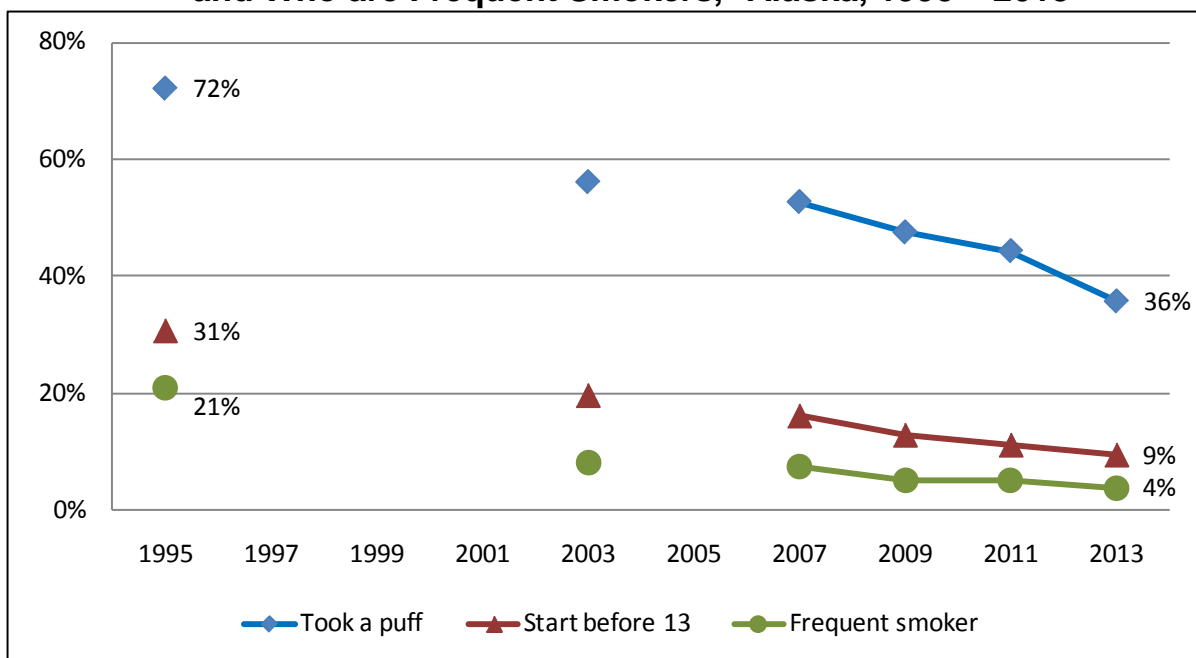
Figure 32. Percent of High School Students Who Smoke, Alaska & US, 1995 – 2013



Source: Alaska Youth Risk Behavior Survey and National Youth Risk Behavior Survey
Alaska YRBS data are only available for 1995, 2003, and 2007 to present.

- Current smoking prevalence, defined as smoking on 1 or more days in the past 30 days, decreased nationally as well as in Alaska. Smoking among Alaska high school students dropped from 36.5% in 1995 to 10.6% in 2013.
- This decrease means that there are 10,825 fewer youth smokers in 2013 than there were in 1995.
Note: Population numbers used to calculate the number fewer smokers are from 2010 Census, ages 14 to 17.
- Smoking decreased significantly between 1995 and 2013 among both boys and girls in Alaska. See Appendix A Table 8 for more information.
- Most Alaska youth who smoke have tried to quit. In 2013, about 2 in 3 youth smokers in Alaska (65.1%) reported that they tried to quit smoking cigarettes during the 12 months prior to the survey. Nationally in 2013, 48.0% of high school student smokers tried to quit in the past year.

Figure 33. Selected Smoking Indicators: Percent of High School Students Who Ever Tried Smoking, Started Smoking before Age 13, and Who are Frequent Smokers,* Alaska, 1995 – 2013



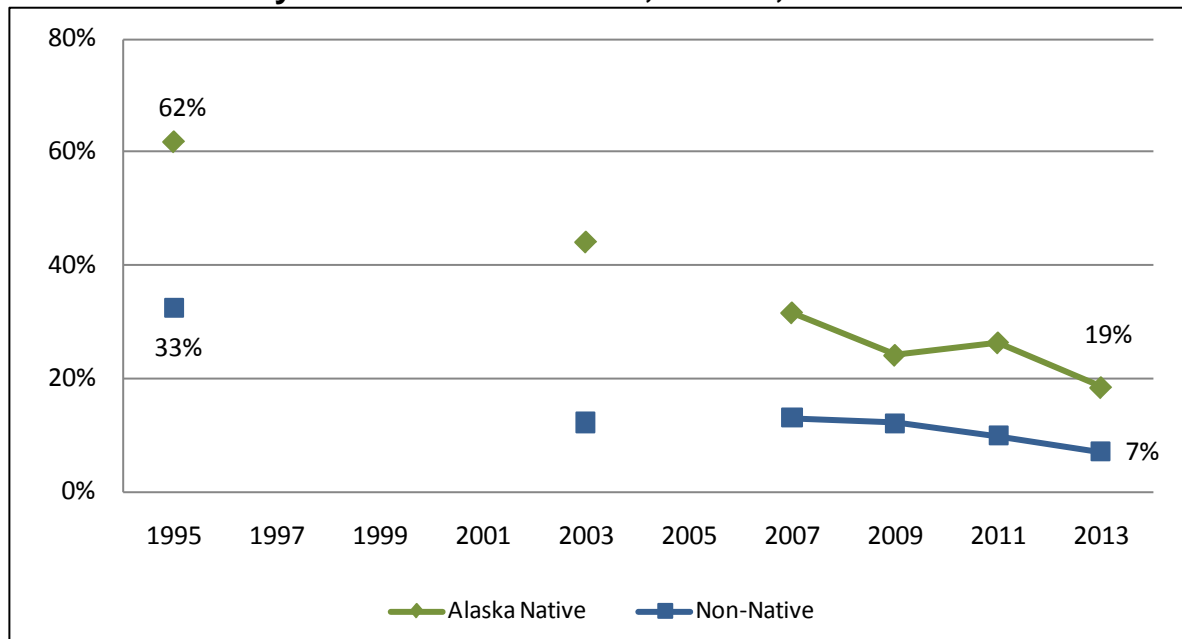
Source: Alaska Youth Risk Behavior Survey

Alaska YRBS data are only available for 1995, 2003, and 2007 to present.

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

- Among Alaska high school students, the proportion who reported ever trying smoking (even a puff) decreased from nearly 3 in 4 students (72.1%) in 1995 to nearly 1 in 3 (35.7%) in 2013.
- The proportion of Alaska high school students who started smoking prior to age 13 decreased from nearly 1 in 3 students (30.7%) in 1995 to 1 in 10 students (9.4%) in 2013.
- The proportion of Alaska high school students who are frequent smokers (defined as smoking on 20 or more of the past 30 days) decreased from 1 in 5 students (21.0%) in 1995 to less than 1 in 20 students (3.9%) in 2013.

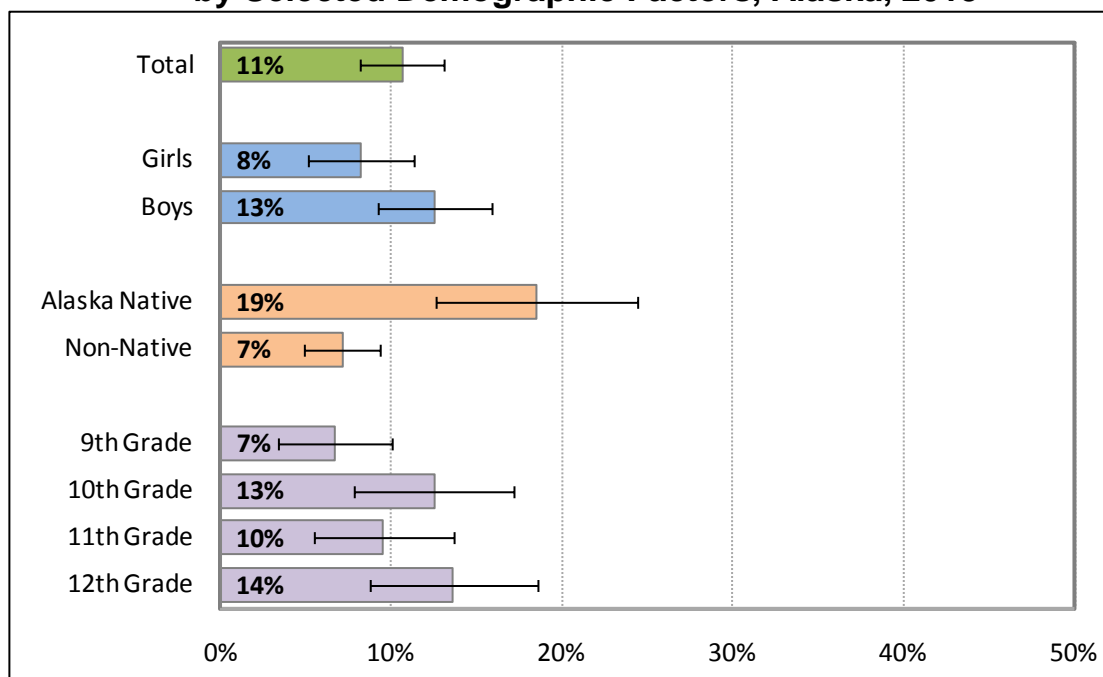
Figure 34. Percent of High School Students Who Smoke, by Alaska Native Status, Alaska, 1995 – 2013



Source: Alaska Youth Risk Behavior Survey
Alaska YRBS data are only available for 1995, 2003, and 2007 to present.

- Between 1995 and 2013, significant declines in youth smoking occurred among both Alaska Native and non-Native students.
- The percent of Alaska Native students who are current smokers declined 70% from 1995 to 2013.

Figure 35. Percent of High School Students Who are Current Smokers, by Selected Demographic Factors, Alaska, 2013

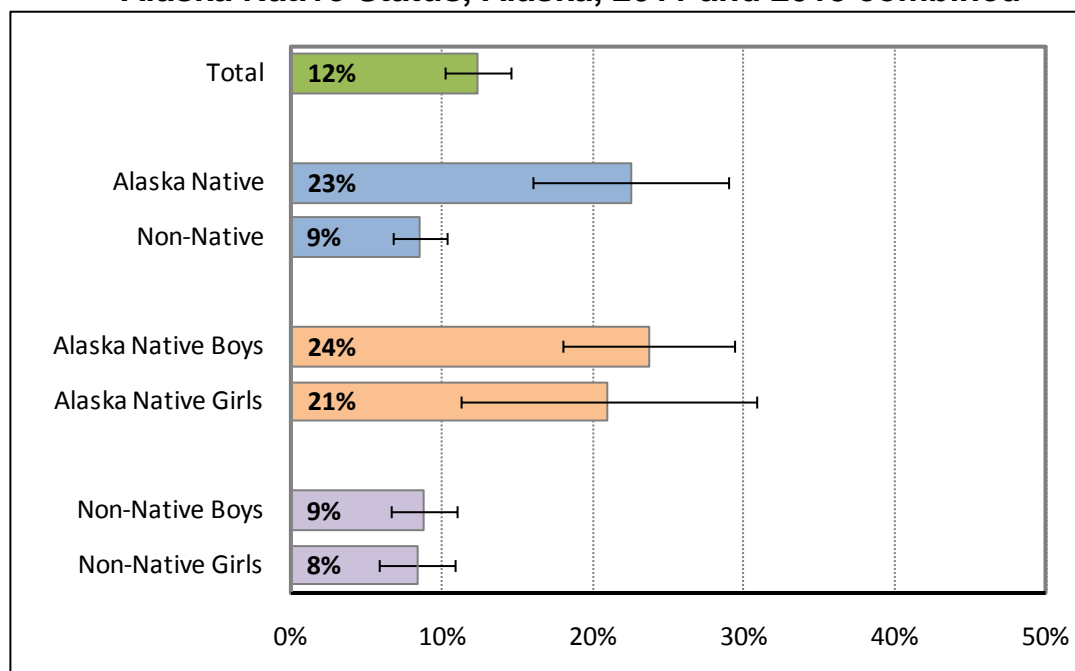


Source: Alaska Youth Risk Behavior Survey

- Alaska Native youth are more likely than non-Native youth to report current smoking.
- There were no significant differences in smoking prevalence between girls and boys or by grade levels in 2013.
- Regional differences in youth smoking show similar patterns to those among adults.⁶ Youth smoking prevalence is significantly higher in Northern Alaska (25.4%) and Southwest Alaska (19.5%) than in Anchorage/Mat-Su (9.6%), Southeast Alaska (11.6%), the Gulf Coast (12.8%), or the Interior (12.9%). Regional differences are also likely to reflect differences by Alaska Native status, since the majority of student survey participants in Southwest Alaska and Northern Alaska are Alaska Native.
- Statewide, most Alaska high school students report that their parents consider it very wrong for them to smoke cigarettes. However, this proportion is significantly lower in Northern Alaska (68.6%) and Southwest Alaska (68.3%) than in Anchorage/Mat-Su (78.7%).

⁶ More information about regional reporting for YRBS can be found in Appendix B. Additional information and graphic presentation is also available online at http://dhss.alaska.gov/dph/InfoCenter/Pages/ia/yrbss/yrbss_health_profiles.aspx

Figure 36. Percent of High School Students Who Smoke, by Gender and Alaska Native Status, Alaska, 2011 and 2013 combined

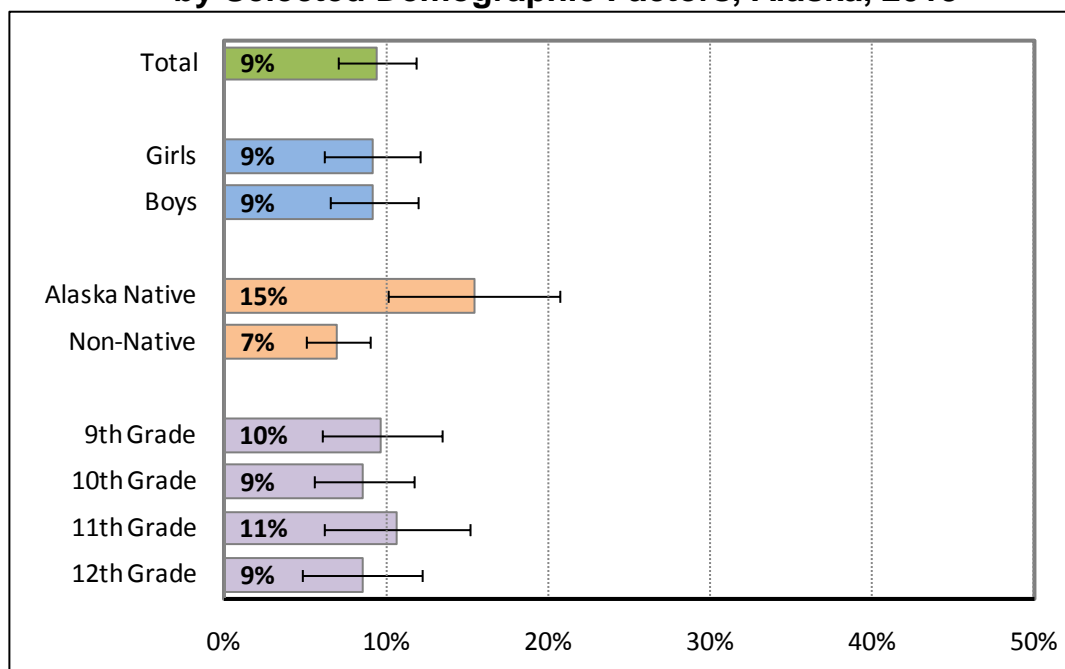


Source: Alaska Youth Risk Behavior Survey

Note: Percentages reported in this graph are for 2011 and 2013 data combined, and may differ from those reported elsewhere for 2013 only.

- If we combine the two most recent years of survey data, we can examine youth tobacco use prevalence within race group by gender.
- Alaska Native boys and girls are significantly more likely to smoke than non-Native boys or girls.
- Within race groups, there is no significant difference in smoking prevalence between boys and girls.

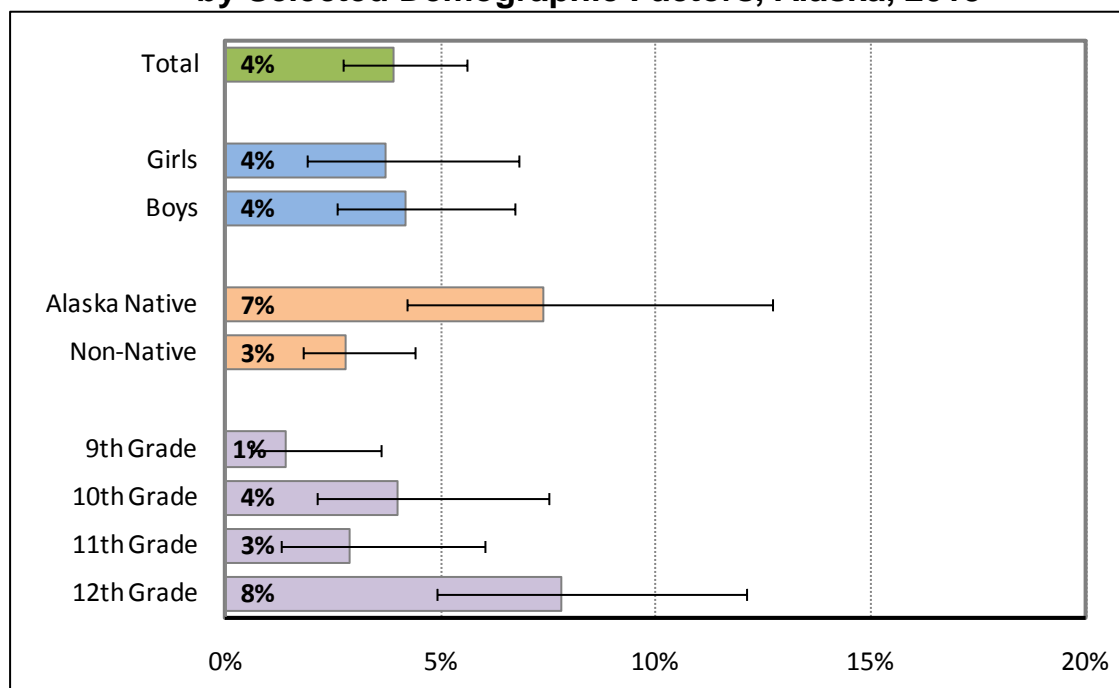
Figure 37. Percent of High School Students Who Smoked before Age 13, by Selected Demographic Factors, Alaska, 2013



Source: Alaska Youth Risk Behavior Survey

- Alaska Native students are significantly more likely than non-Native students to have started smoking before age 13. One in six Alaska Native students (15.4%) started smoking before age 13 in 2013, compared to about 1 in 14 (7.0%) of non-Native students.
- Regionally, starting smoking before age 13 is significantly higher among high school students in Southwest Alaska (26.4%) and Northern Alaska (25.5%) than in Anchorage/Mat-Su (7.8%), Southeast Alaska (10.7%), the Gulf Coast (9.5%), or the Interior (13.6%).

Figure 38. Percent of High School Students Who Are Frequent Smokers,* by Selected Demographic Factors, Alaska, 2013

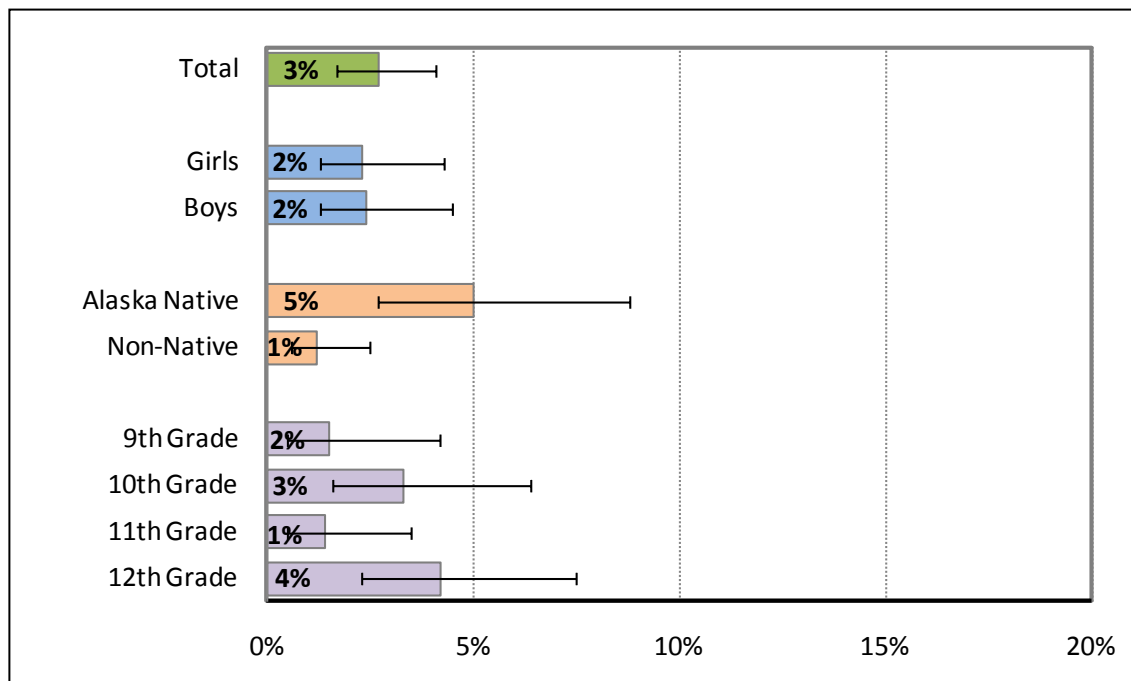


*Frequent smokers are defined as having smoked on 20 or more of the past 30 days.

Source: Alaska Youth Risk Behavior Survey

- More 12th graders are frequent smokers as compared to 9th graders.
- Alaska Native youth are more likely than non-Native youth to be frequent smokers.
- Regionally, frequent smoking is significantly higher among high school students in Northern Alaska (11.3%) than in Anchorage/Mat-Su (3.7%), the Gulf Coast (4.7%), and the Interior (5.1%). Frequent smoking prevalence is 5.1% in Southeast Alaska and 5.2% in Southwest Alaska (but the difference from Northern Alaska is not statistically significant).
- Overall, 1 in 3 Alaska high school students (65.3%) think that people greatly risk harming themselves if they smoke one or more packs of cigarettes per day. However, significantly fewer Alaska Native students than non-Native students recognize this risk (44.3% vs 73.1%). Regionally, fewer students in Northern Alaska (43.9%) and Southwest Alaska (43.3%) recognize this risk than in all other regions.

Figure 39. Percent of High School Students Who Smoked on School Property in the Past 30 days, by Selected Demographic Factors, Alaska, 2013

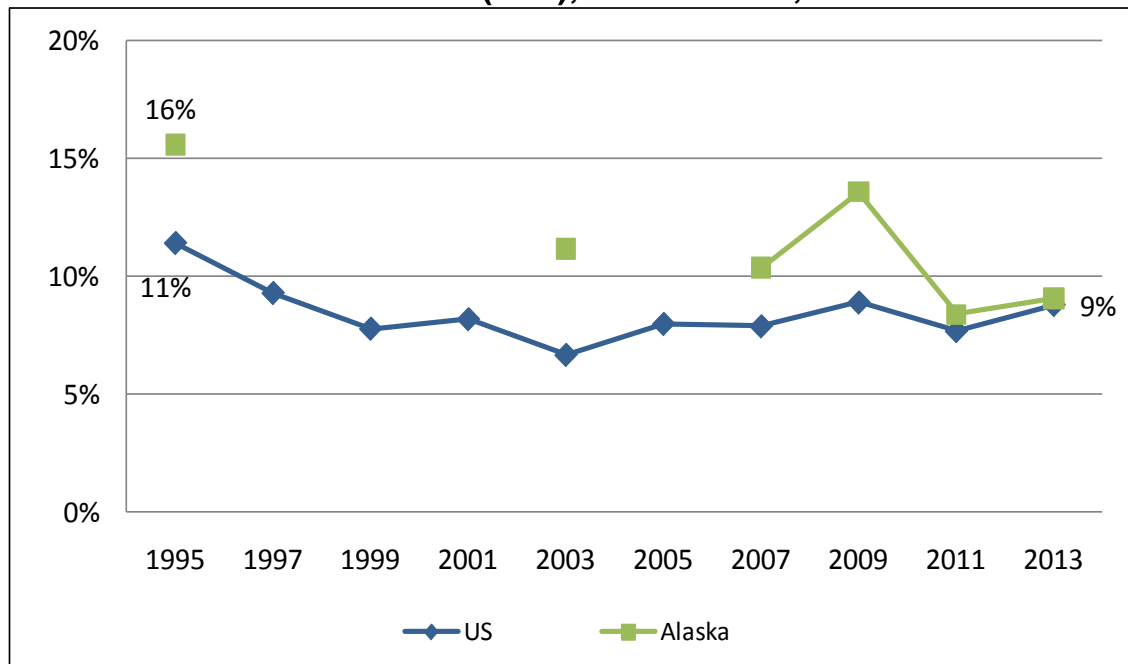


Source: Alaska Youth Risk Behavior Survey

- Alaska Native students are more likely than non-Native students to have smoked on school property in the past 30 days. There is no difference by gender or by grade levels.
- Regionally, high school students in Northern Alaska are significantly more likely to report smoking on school property in the past 30 days (7.1%) than those in Anchorage/Mat-Su (2.5%) or the Gulf Coast (3.2%). For other regions, the proportion of students reporting smoking on school property in the past 30 days ranged from 3.1% in the Interior to 3.7% in Southeast Alaska and 5.0% in Southwest Alaska.

B. Smokeless Tobacco Use

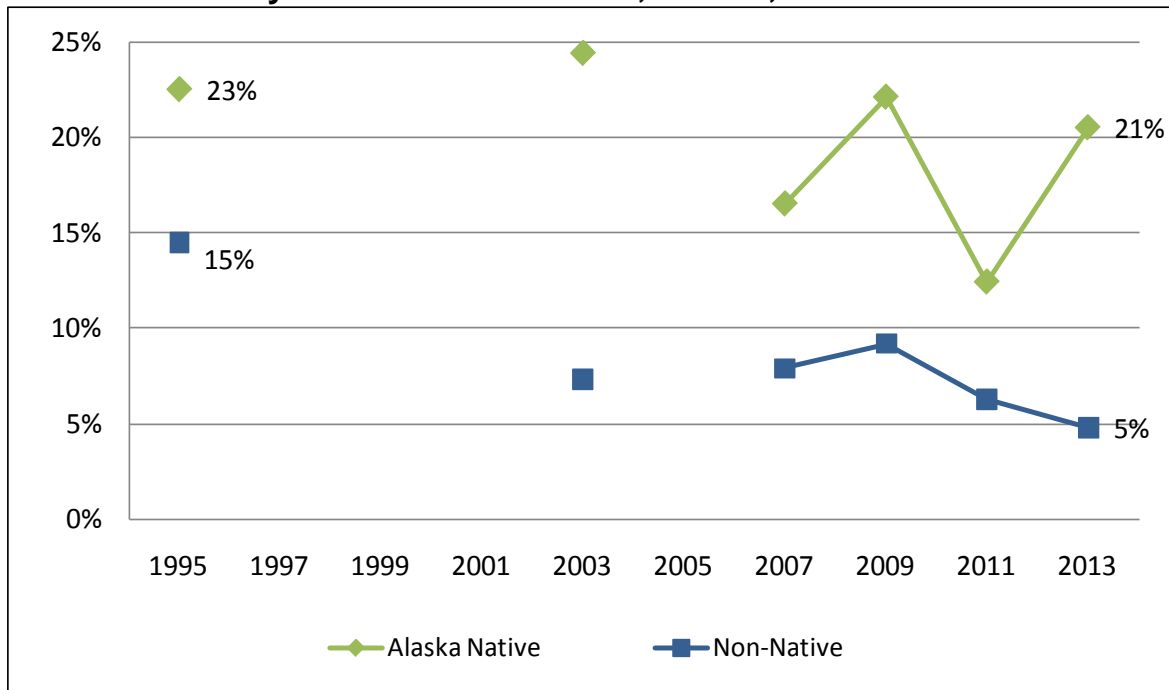
Figure 40. Percent of High School Students Who Use Smokeless Tobacco (SLT), Alaska & US, 1995 – 2013



Source: Alaska Youth Risk Behavior Survey and National Youth Risk Behavior Survey
Alaska YRBS data are only available for 1995, 2003, and 2007 to present.

- Overall, use of smokeless tobacco (SLT) among Alaska high school students dropped from 15.6% in 1995 to 9.1% in 2013. Nationally, youth SLT use decreased from 1995 to 1999, but has remained relatively flat since then.
- Among high school boys, SLT use dropped from 23.5% in 1995 to 12.7% in 2013. See Appendix A Table 9 for more information.

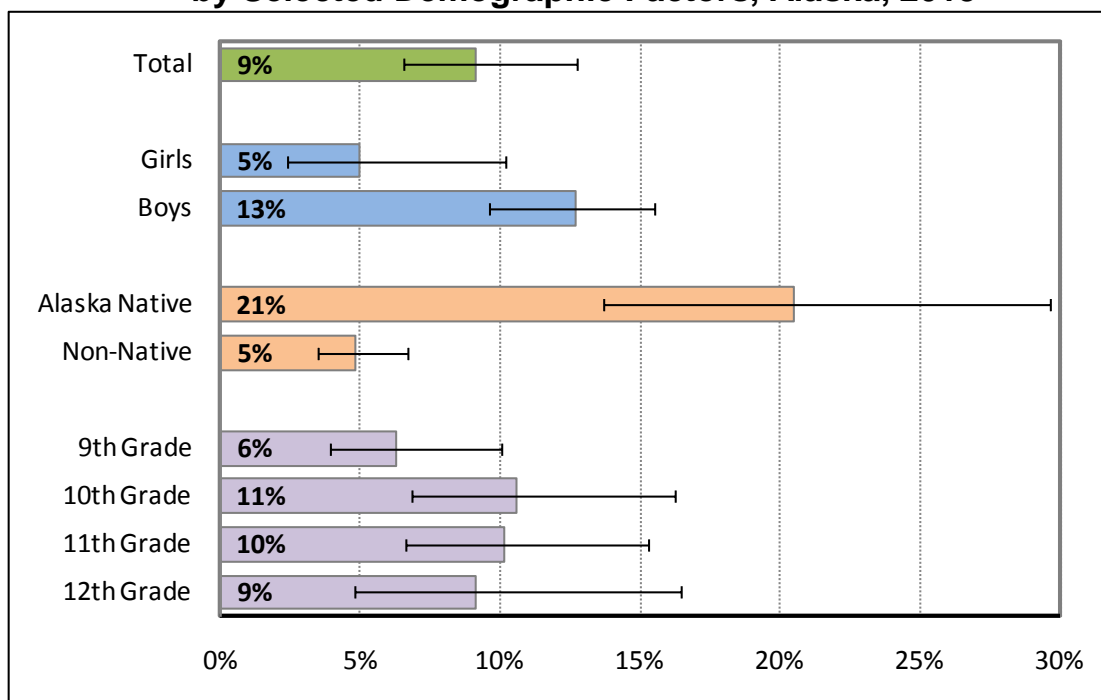
Figure 41. Percent of High School Students Who Use SLT, by Alaska Native Status, Alaska, 1995 – 2013



Source: Alaska Youth Risk Behavior Survey
Alaska YRBS data are only available for 1995, 2003, and 2007 to present.

- SLT use decreased significantly among non-Native youth, but not among Alaska Native youth.
- Among non-Native high school students, SLT use decreased from 14.5% in 1995 to 4.8% in 2013.

Figure 42. Percent of High School Students Who Currently Use SLT, by Selected Demographic Factors, Alaska, 2013

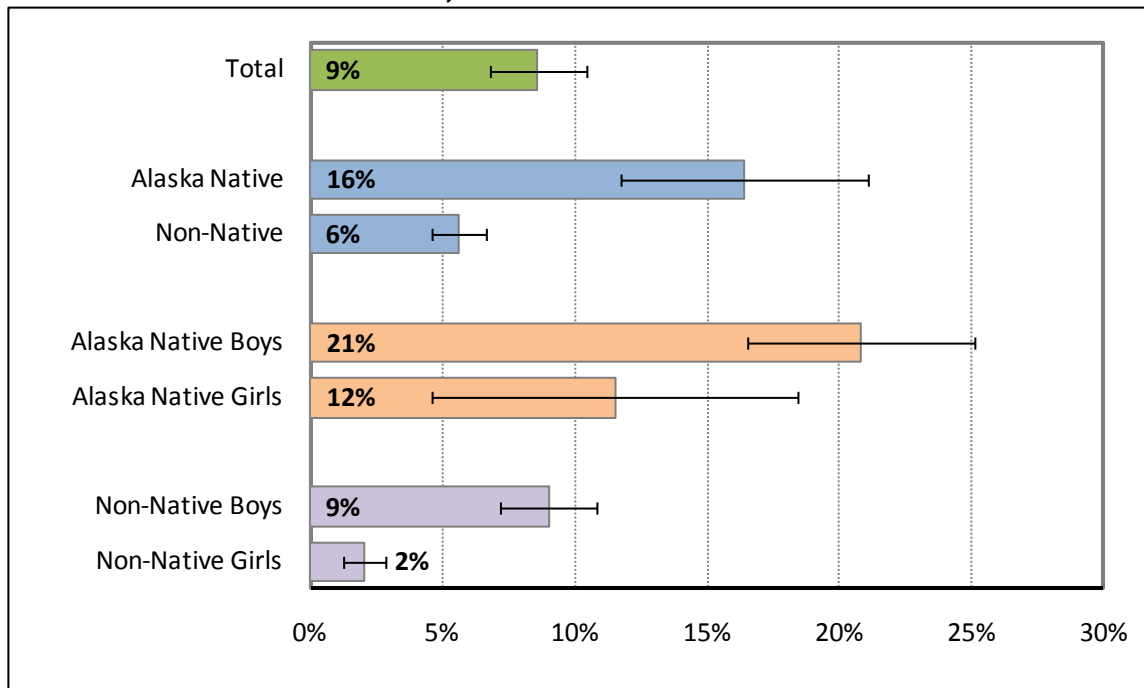


Source: Alaska Youth Risk Behavior Survey

- SLT use among Alaska Native students is four times as high as that of non-Native students (20.5% vs 4.8%).
- Boys are twice as likely as girls to use SLT (12.7% vs 5.0%).
- There are no significant differences of SLT use among grades.
- Regional patterns for youth SLT use are similar to those seen among adults.⁷ Youth SLT use is significantly higher in Southwest Alaska (40.3%) and in Northern Alaska (27.0%) than in Anchorage/Mat-Su (6.0%), Southeast Alaska (8.1%), the Gulf Coast (7.7%), or the Interior (11.1%).
- Regional differences are also likely to reflect differences by Alaska Native status, since the majority of student survey participants in Southwest Alaska and Northern Alaska are Alaska Native.
- As with adults, Iqmik use is a regional variant of SLT use. Youth Iqmik use is significantly higher in Southwest Alaska (35.9%) than in any other region, where Iqmik use ranges from 1.6% in Anchorage/Mat-Su to 3.1% in Southeast Alaska.

⁷ More information about regional reporting for YRBS can be found in Appendix B. Additional information and graphic presentation is also available online at http://dhss.alaska.gov/dph/InfoCenter/Pages/ia/yrbs/yrbs_health_profiles.aspx

Figure 43. Percent of High School Students Who Use SLT, by Gender and Alaska Native Status, Alaska, 2011 and 2013 combined

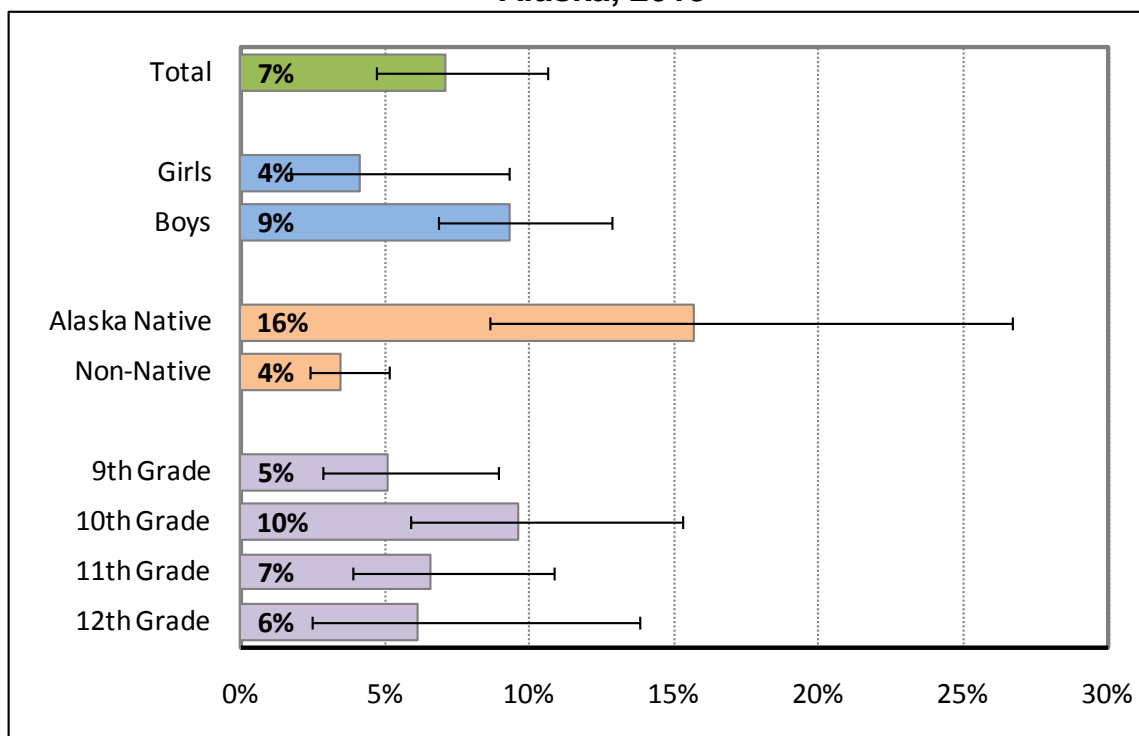


Source: Alaska Youth Risk Behavior Survey

Note: Percentages reported in this graph are for 2011 and 2013 data combined, and may differ from those reported elsewhere for 2013 only.

- If we combine the two most recent years of survey data, we can examine youth tobacco use prevalence within race group by gender.
- Alaska Native girls are significantly more likely than non-Native girls to use smokeless tobacco. However, Alaska Native girls and non-Native boys are about equally likely to use smokeless tobacco.
- Alaska Native boys are more likely than non-Native boys to use smokeless tobacco. The apparent difference between Alaska Native boys and girls, however, is not statistically significant.

Figure 44. Percent of High School Students Who Currently Use SLT on School Property, by Selected Demographic Factors, Alaska, 2013

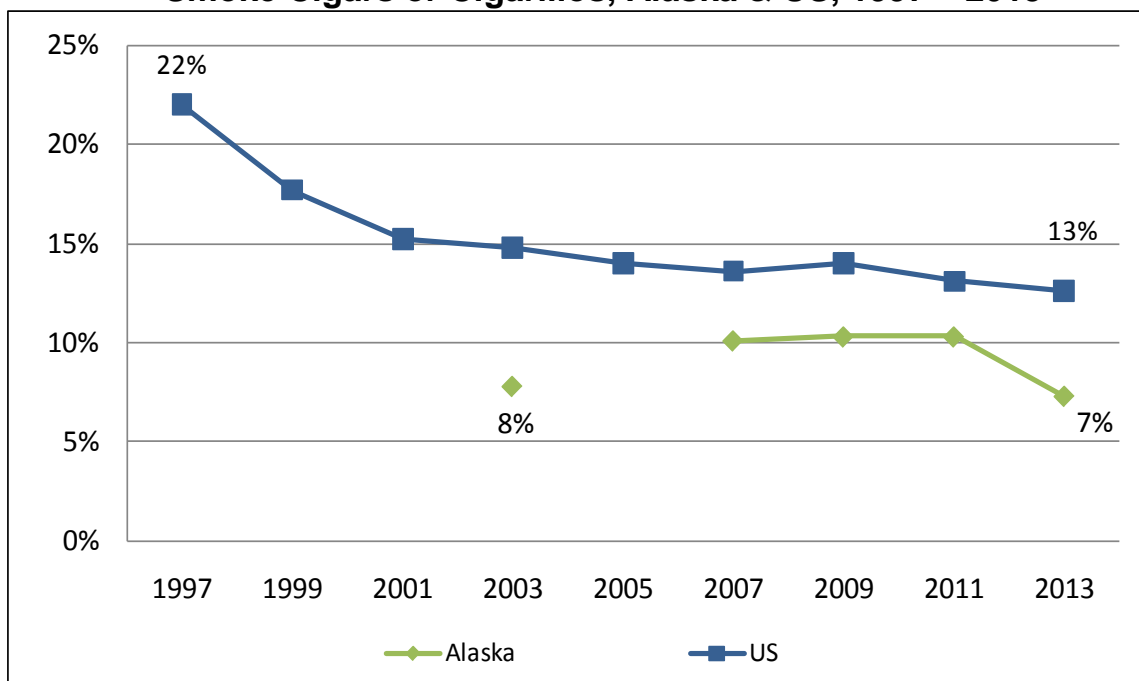


Source: Alaska Youth Risk Behavior Survey

- Patterns of SLT use on school property are similar to SLT use in general.
- SLT use on school property is more likely among Alaska Native students than non-Native students. About 1 in 6 Alaska Natives report using SLT on school property compared to 1 in 25 non-Native students.
- There are no significant differences by gender or grade level.
- Youth SLT use on school property is significantly higher in Southwest Alaska (26.2%) and in Northern Alaska (14.5%) than in Anchorage/Mat-Su (4.4%), Southeast Alaska (5.7%), the Gulf Coast (3.9%), or the Interior (5.6%).

C. Cigar Use

Figure 45. Percent of High School Students Who Smoke Cigars or Cigarillos, Alaska & US, 1997 – 2013

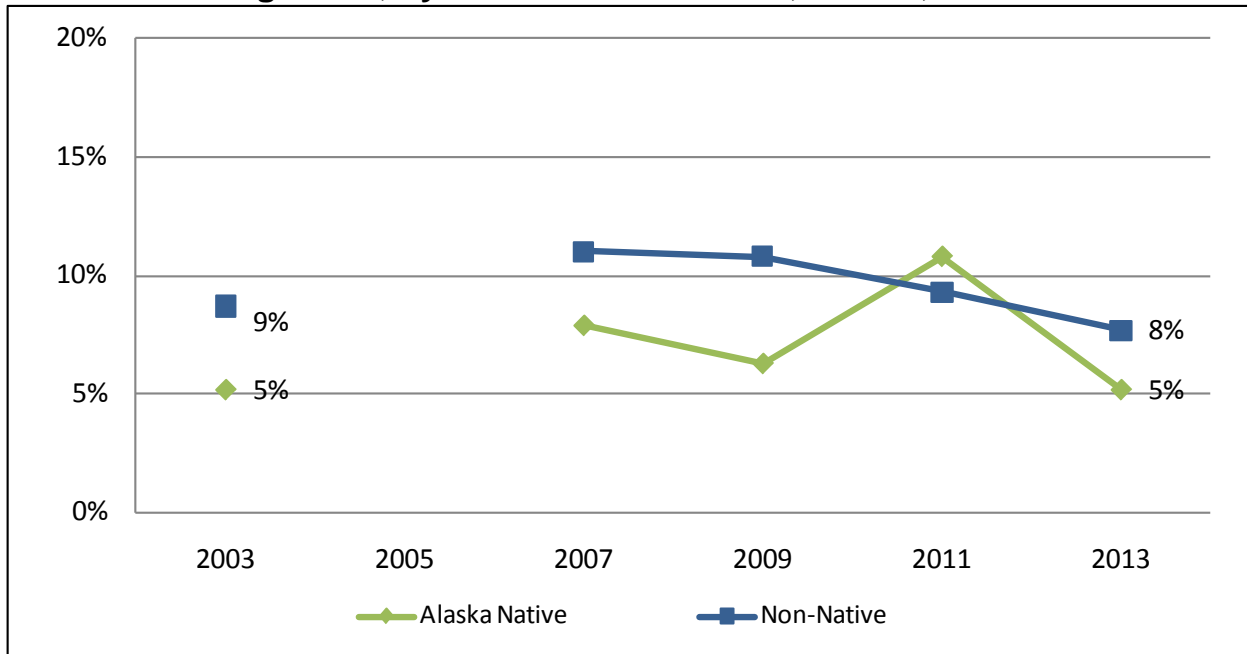


Source: Alaska Youth Risk Behavior Survey and National Youth Risk Behavior Survey
Alaska YRBS data about cigar use are only available for 2003 and 2007 to present.

Note: Question was not in the national YRBS prior to 1997, and was first included in the Alaska YRBS in 2003.

- The Alaska YRBS has included a question about cigar or cigarillo use since 2003. There has been no significant change in cigar use during the previous decade; 7.8% of students reported past month cigar use in 2003, nearly the same percentage as in 2013 (7.3%).
- There have been no significant changes in cigar use among both girls and boys during the past decade. See Appendix A Table 10 for more information.
- Nationally, the proportion of high school students who smoke cigars has decreased since 1997.

Figure 46. Percent of High School Students Who Smoke Cigars or Cigarillos, by Alaska Native Status, Alaska, 2003 – 2013

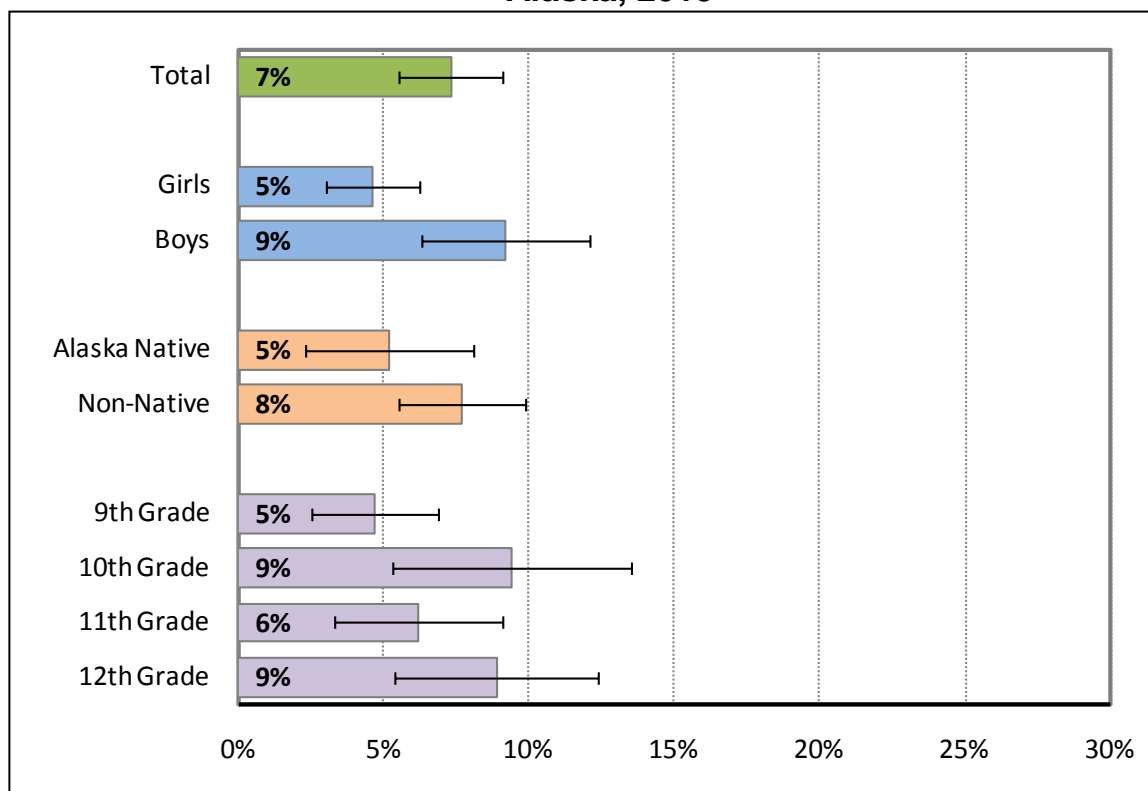


Source: Alaska Youth Risk Behavior Survey

Alaska YRBS data about cigar use are only available for 2003 and 2007 to present.

- Cigar use has not changed significantly among Alaska Native and non-Native high school students in Alaska since 2003.

Figure 47. Percent of High School Students Who Currently Smoke Cigars or Cigarillos, by Selected Demographic Factors, Alaska, 2013



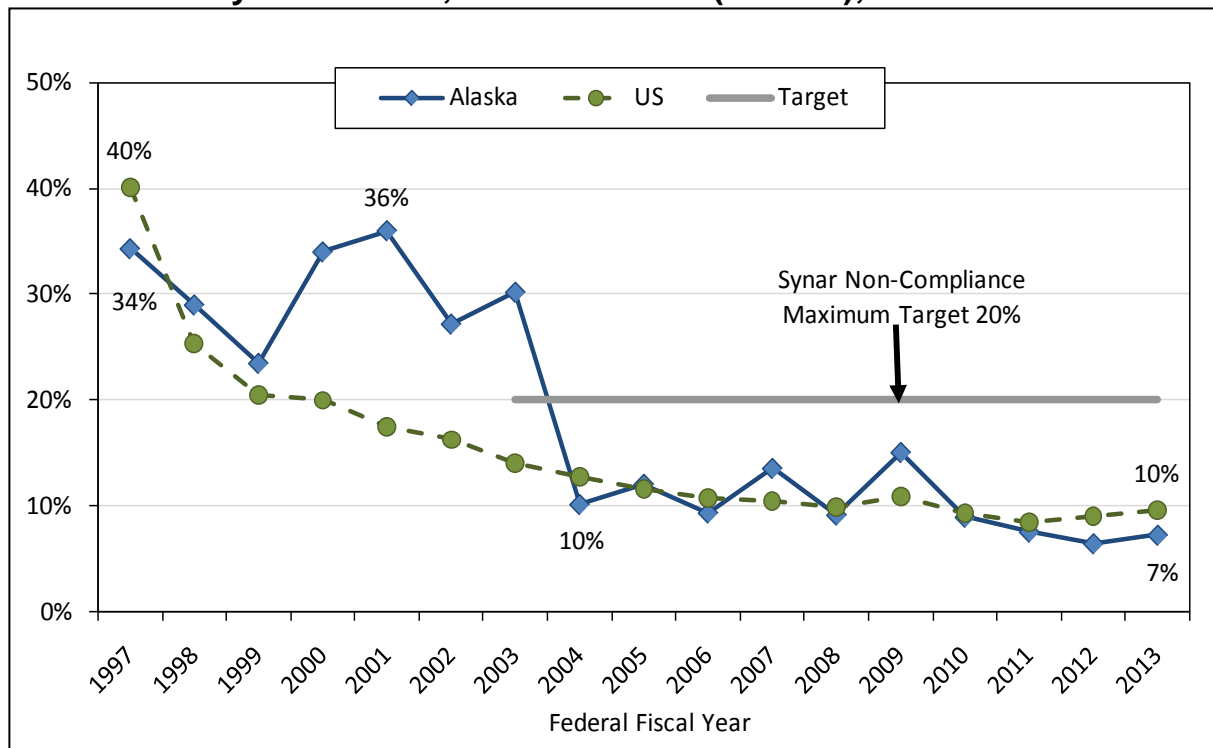
Source: Alaska Youth Risk Behavior Survey

- Boys are significantly more likely than girls to smoke cigars. (9.2% versus 4.6%).
- Cigar use was not significantly different by Alaska Native status or grade.
- Nearly 1 in 3 students (29.7%) who smoke cigarettes also reported smoking one or more cigars in the past 30 days, whereas only 3.0% of students who do not smoke cigarettes reported smoking cigars.
- The proportion of youth who smoke both cigarettes and cigars differs by gender. About a third (34.6%) of the boys who smoke cigarettes also smoked one or more cigars in the past 30 days, compared to 18.4% of girls who smoke cigarettes.
- In contrast to cigarette smoking and SLT use, youth cigar use is significantly higher in the Gulf Coast (11.1%) and Anchorage/Mat-Su (9.1%) than in Southwest Alaska (2.7%), Northern Alaska (5.0%) or Southeast Alaska (5.4%). Youth cigar use in the Interior is 9.2%, but is not significantly different from the other regions.
- Using two years of data combined, we can examine differences by race group among smokers. About 1 in 5 (19.3%) Alaska Native youth cigarette smokers also smoked cigars, compared to 2 in 5 (40.0%) non-Native youth cigarette smokers.

Source: Alaska Youth Risk Behavior Survey, combined years 2011 and 2013.

D. Youth Access to Tobacco

Figure 48. Percent of Vendors Found Selling Tobacco to Minors by Fiscal Year, Alaska and US (Median), 1997 – 2013

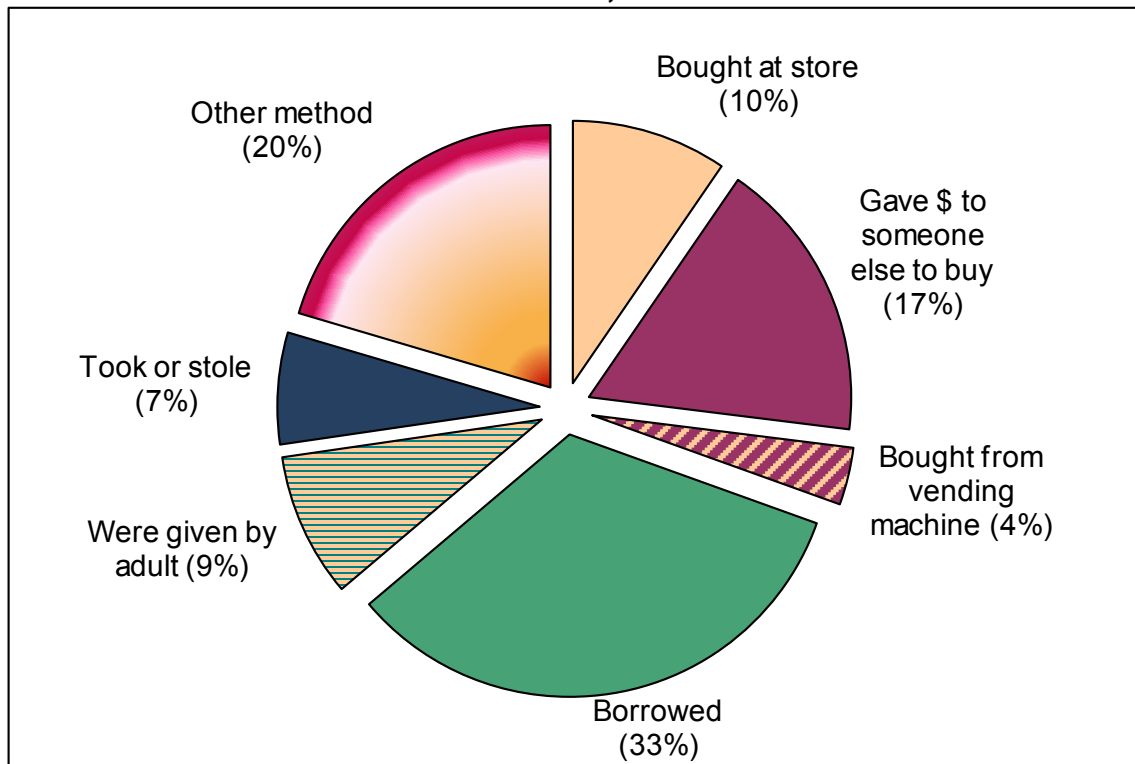


Source: Alaska Synar Compliance Database.

- Since 2003, Alaska has maintained the “20% or below” compliance rate established by the federal Synar amendment. This means fewer tobacco vendors statewide are selling tobacco products to minors compared to previous years.
- Both the Synar compliance data and youth self-report indicate that Alaska has made great progress in the last decade in reducing sales of tobacco directly to underage youth.
- The proportion of high school smokers who reported that their usual way of getting cigarettes was to buy them in a store decreased from 27.1% in 1995 to 9.6% in 2013.

Source: Alaska Youth Risk Behavior Survey

**Figure 49. Usual Methods of Getting Cigarettes in the Past 30 Days
Among High School Student Smokers,
Alaska, 2013**



Source: Alaska Youth Risk Behavior Survey

- In 2013, nearly two out of three high school smokers (60%) reported that they usually got their cigarettes with assistance from other people around them. About 1 in 6 youth smokers (17%) gave money to someone else to buy them, a third (33%) borrowed them from someone else, and about 1 in 11 (9%) were given cigarettes by someone who was age 18 or older.

IV. Secondhand Smoke

According to the 2006 Surgeon General's report:

- There is no risk-free level of secondhand smoke exposure. Even brief exposure can be dangerous.
- Nonsmokers who are exposed to secondhand smoke at home or work increase their heart disease risk by 25–30% and their lung cancer risk by 20–30%.
- Almost 60% of U.S. children age 3–11 years—or almost 22 million children—are exposed to secondhand smoke.
- Eliminating smoking in indoor spaces is the only way to fully protect nonsmokers from secondhand smoke exposure. Separating smokers from nonsmokers, cleaning the air, and ventilating buildings cannot eliminate secondhand smoke exposure.

Source: U.S. Department of Health and Human Services. [The Health Consequences of Involuntary Exposure to Tobacco Smoke: A Report of the Surgeon General](http://www.surgeongeneral.gov/library/secondhandsmoke/report/). Atlanta, Georgia: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, Coordinating Center for Health Promotion, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, 2006 [cited 2006 Sep 27]. Available from: <http://www.surgeongeneral.gov/library/secondhandsmoke/report/>.

- Roughly 14,400 Alaska children are exposed to secondhand smoke in their homes.

Source: Alaska Behavioral Risk Factor Surveillance System 2013; Alaska Department of Labor and Workforce Development Population Estimates, 2013.

- Having a home rule against smoking inside significantly lowers the risk of secondhand smoke exposure for children. In homes with no smoking ban, nearly 7 in 10 Alaska children (69.3%) were exposed to tobacco smoke in their homes in the past 30 days, compared to 1.5% of children living in homes where smoking is not allowed inside. Among children living with a smoker in Alaska and with no home smoking ban, 78.6% were exposed to secondhand smoke.

Source: Alaska Behavioral Risk Factor Surveillance System 2011-2013

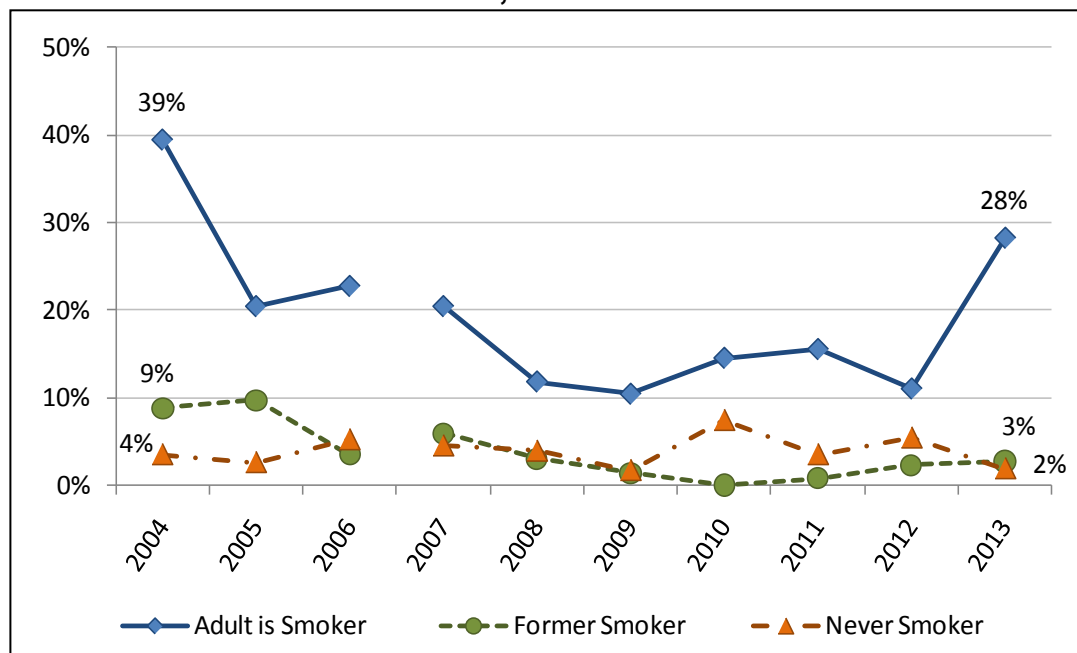
- The proportion of Alaska high school students who report being in the same room with someone who was smoking in the past 7 days has decreased from 49.1% in 2003 to 31.1% in 2013. However, this finding indicates that about 1 in 3 high school students are still being exposed to indoor secondhand smoke exposure on a regular basis.

Source: Alaska Youth Risk Behavior Survey

- There is widespread support for clean indoor air policies. About 4 in 5 Alaska adults agree that smoking should not be allowed in hospitals or on hospital grounds, or in workplaces, including restaurants. Even among smokers, about 7 in 10 agree that smoking should not be allowed in these places.

A. *Secondhand Smoke at Home*

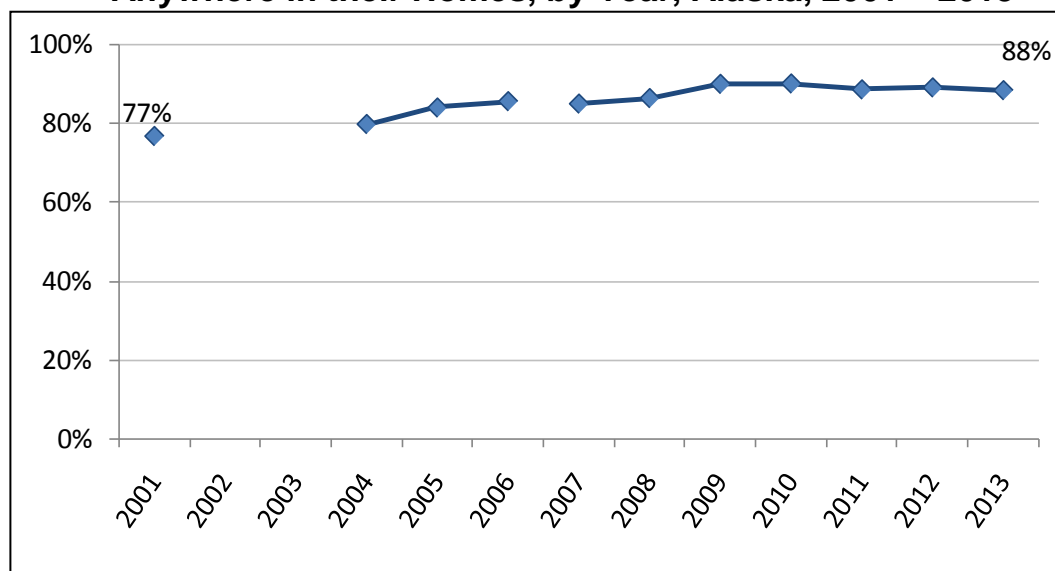
Figure 50. Percent of Children Exposed to Smoke in their Homes in the Past Month, by Smoking Status of Adult Respondent, Alaska, 2004 – 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- Overall, the proportion of children exposed to secondhand smoke at home decreased in Alaska from 13.0% in 2004 to 7.6% in 2013. Exposure is measured by report of any smoking inside the home in the past 30 days, among adults who report that children live in their household.
- Among households where the adult respondent is a smoker, child exposure to secondhand smoke at home decreased from 39.4% in 2004 to 28.2% in 2013.
- Child exposure to secondhand smoke at home also decreased in households where the adult respondent is a former smoker, from 8.8% in 2004 to 2.7% in 2013.

Figure 51. Percent of Adults Who Report that Smoking is Not Allowed Anywhere in their Homes, by Year, Alaska, 2001 – 2013

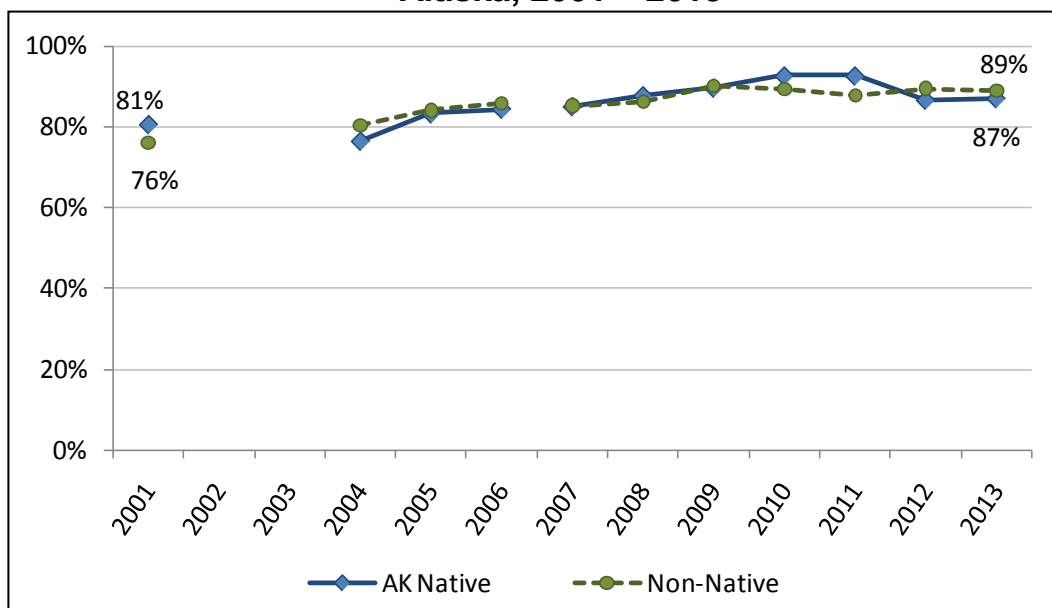


Source: Alaska Behavioral Risk Factor Surveillance System (information collected in 2001 and 2004 to present).

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- The proportion of Alaska adults who reported that smoking is not allowed anywhere inside their home increased from 76.8% in 2001 to 88.4% in 2013. Significant increases occurred among men and women, and across most demographic groups. See Appendix A Table 12 for more information.

Figure 52. Percent of Adults Who Report that Smoking is Not Allowed Anywhere in their Homes, by Year and Alaska Native Status, Alaska, 2001 – 2013

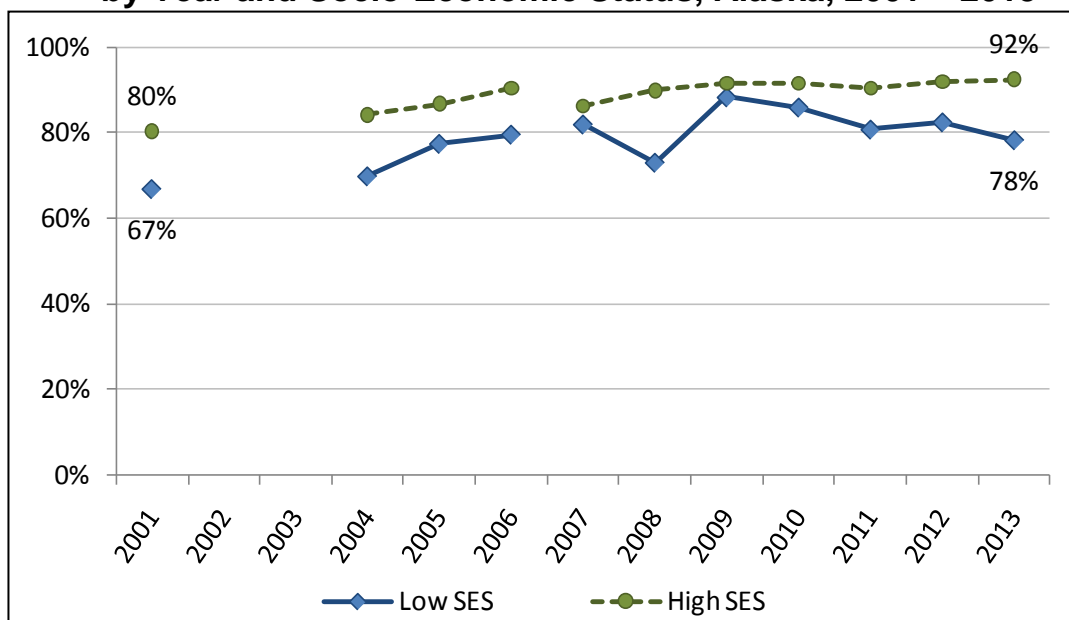


Source: Alaska Behavioral Risk Factor Surveillance System (information collected in 2001 and 2004 to present).

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- The proportion of Alaska Native adults who reported that smoking is not allowed anywhere inside their home increased from 80.7% in 2001 to 87.1% in 2013.
- The proportion of non-Native adults who reported that smoking is not allowed anywhere inside their home increased from 76.1% in 2001 to 89.0% in 2013.

Figure 53. Percent of Non-Native Adults Age 25-64 Who Report that Smoking is Not Allowed Anywhere in their Homes, by Year and Socio-Economic Status, Alaska, 2001 – 2013

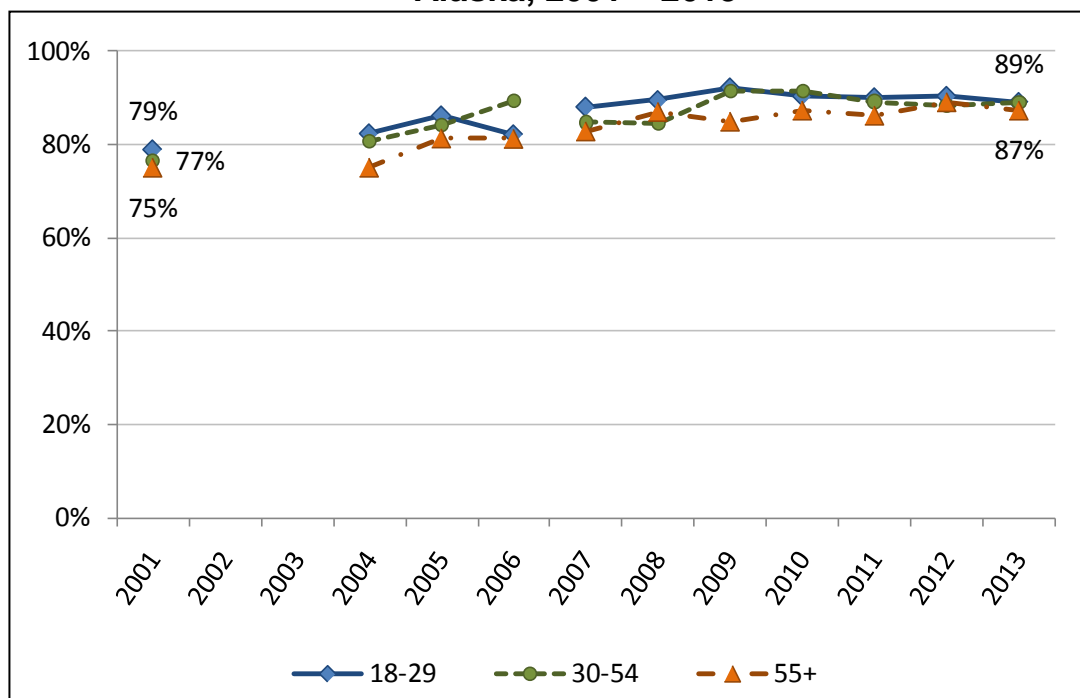


Source: Alaska Behavioral Risk Factor Surveillance System (information collected in 2001 and 2004 to present).

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- Among non-Natives age 25 to 64, the prevalence of home smokefree rules increased regardless of socio-economic status. Among those of low SES, the proportion who reported that smoking is not allowed anywhere inside their home increased from 66.7% in 2001 to 78.2% in 2013.
- The proportion of non-Native adults age 25 to 64 of higher SES who reported that smoking is not allowed anywhere inside their home increased from 80.4% in 2001 to 92.4% in 2013.

Figure 54. Percent of Adults Who Report that Smoking is Not Allowed Anywhere in their Homes, by Year and Age Group, Alaska, 2001 – 2013

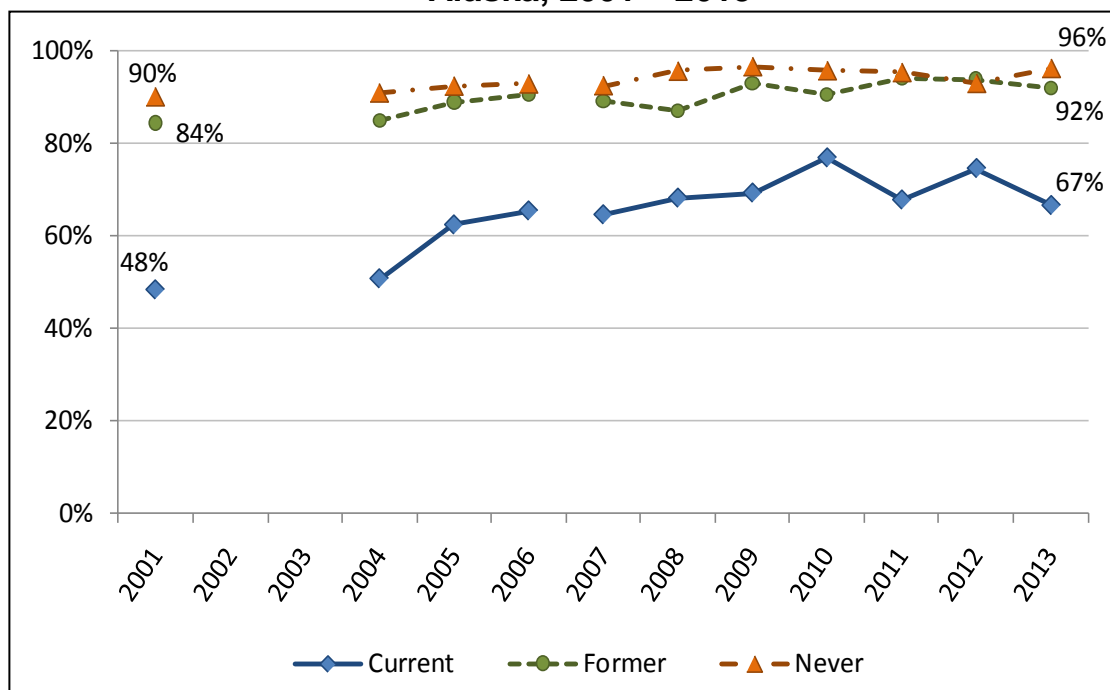


Source: Alaska Behavioral Risk Factor Surveillance System (information collected in 2001 and 2004 to present).

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- Home smokefree rules increased among all Alaska adults regardless of age group.
- The proportion of Alaska adults age 18 to 29 who have smokefree rules in their home increased from about 4 in 5 (79.0%) in 2001 to 9 in 10 (89.1%) in 2013.
- The proportion of Alaska adults age 30 to 54 who have smokefree rules in their home increased from 76.6% in 2001 to 88.9% in 2013.
- The proportion of Alaska adults age 55 and older who have smokefree rules in their home increased from 75.0% in 2001 to 87.3% in 2013.

Figure 55. Percent of Adults Who Report that Smoking is Not Allowed Anywhere in their Homes, by Year and Smoking Status, Alaska, 2001 – 2013

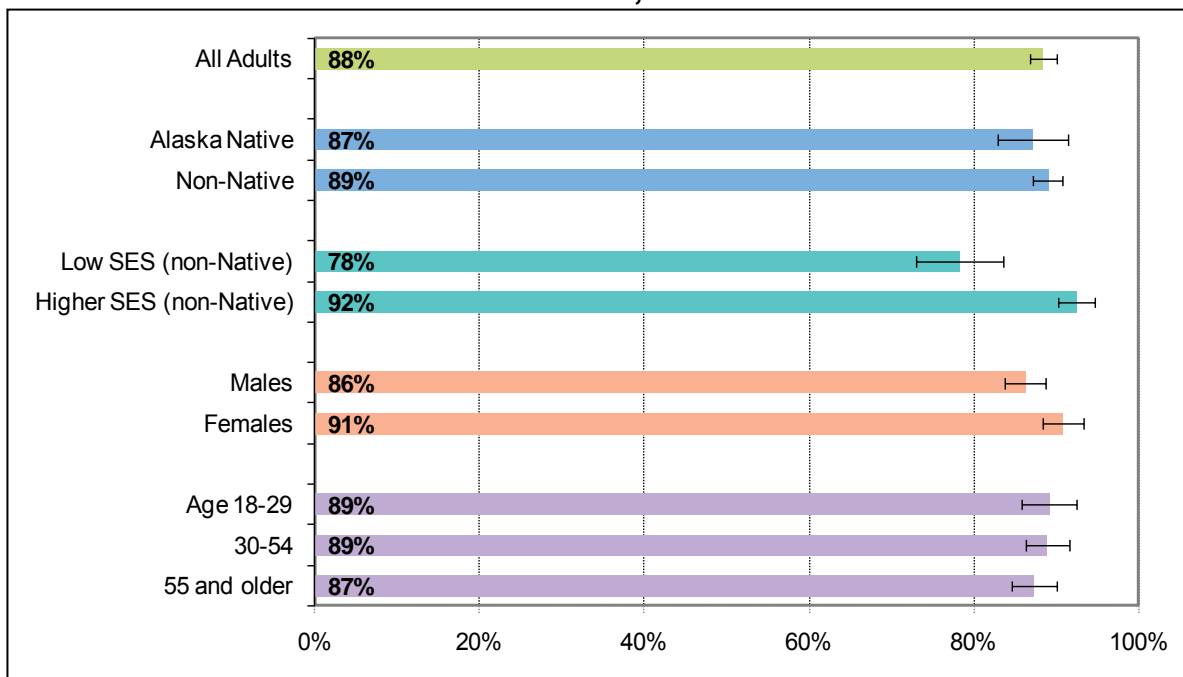


Source: Alaska Behavioral Risk Factor Surveillance System (information collected in 2001, and 2004 to present).

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- Home smokefree rules increased among all Alaska adults regardless of smoking status.
- The proportion of Alaska adult smokers who have smokefree rules in their home increased from about 1 in 2 (48.3%) in 2001 to 2 in 3 (66.5%) in 2013.
- The proportion of Alaska adult former smokers who have smokefree rules in their home increased from 84.4% in 2001 to 91.9% in 2013.
- The proportion of never smoking Alaska adults who have smokefree rules in their home increased from 89.9% in 2001 to 96.2% in 2013.

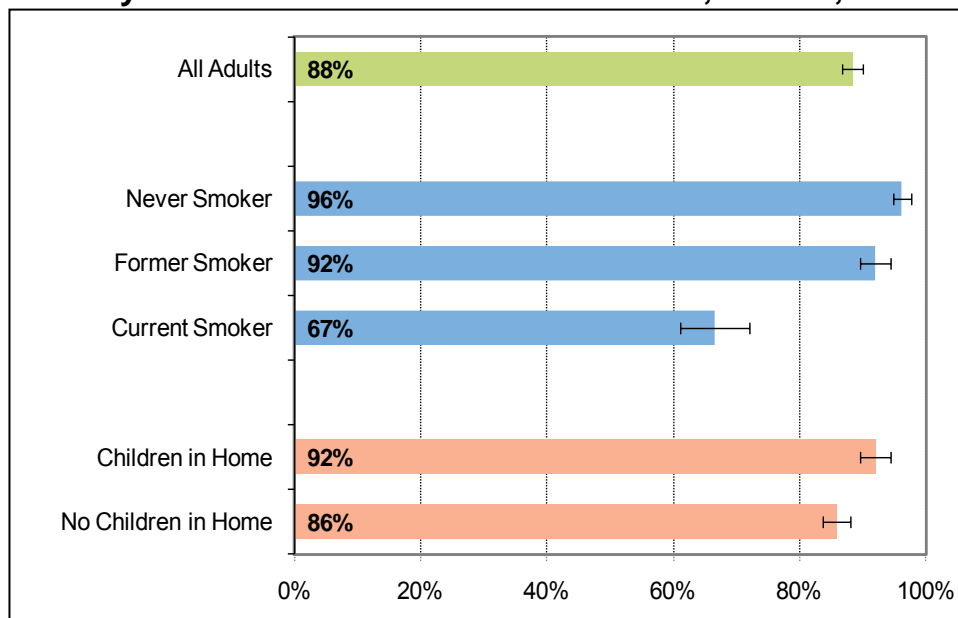
Figure 56. Percent of Adults Who Report that Smoking is Not Allowed Anywhere in their Homes, by Selected Demographic Factors, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- About nine in ten Alaska adults report having smoking bans and no secondhand smoke exposure in their homes. Having a rule about no smoking in the home reduces the risk of exposure.
- Among non-Native adults age 25 to 64, those of low SES are less likely than those of higher SES to have a home smoking ban (78.2% vs 92.4%).
- Women are more likely than men to report having a home smoking ban (90.8% vs 86.2%).

Figure 57. Percent of Adults Who Report that Smoking is Not Allowed Anywhere in their Homes, by Smoking Status and by Presence of Children in the Home, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

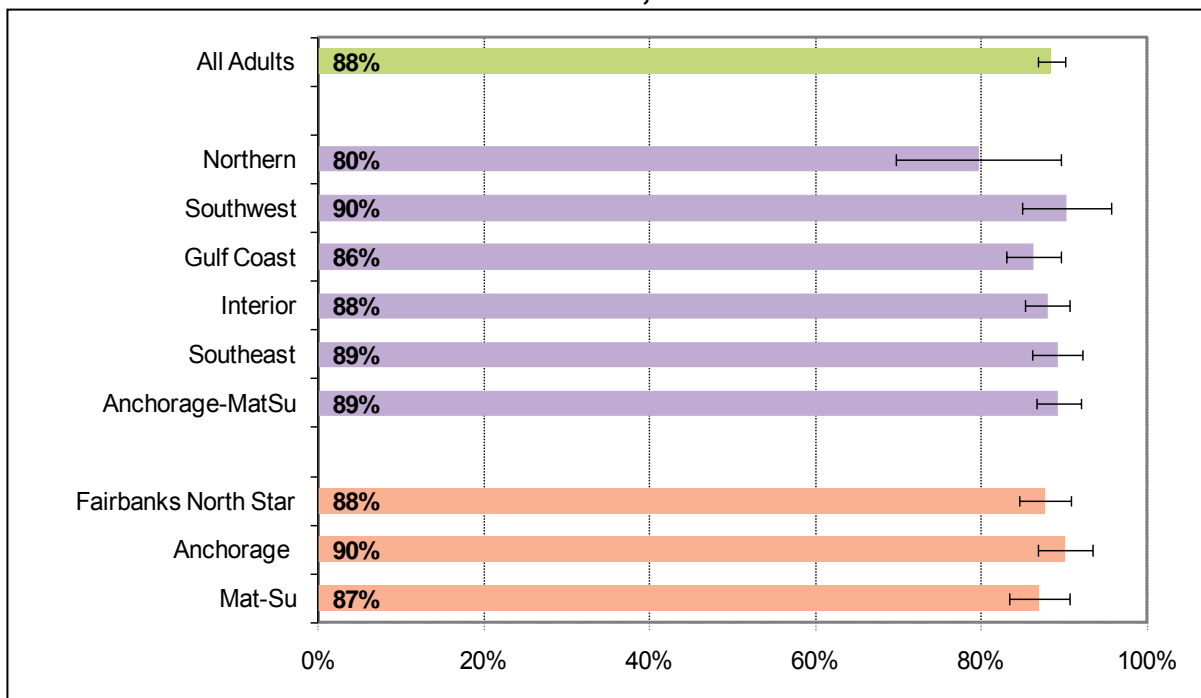
- Non-smokers—both former smokers and those who have never been smokers—are more likely than smokers to report having home smoking bans (91.9% and 96.2% vs 66.5%).
- Adults with children living in the household are more likely than those without children to report having a home smoking ban (91.9% vs 85.8%).

Source: Alaska Behavioral Risk Factor Surveillance System 2013

- In 2012, nearly all (98% of) Alaska women who had recently delivered a live-born infant reported that smoking is not allowed in their home. This proportion was nearly the same for both Alaska Native women (97%) and non-Native women (99%).

Source: Alaska Pregnancy Risk Monitoring System 2012

Figure 58. Percent of Adults Who Report that Smoking is Not Allowed Anywhere in their Homes, by Region and by Selected Boroughs, Alaska, 2013

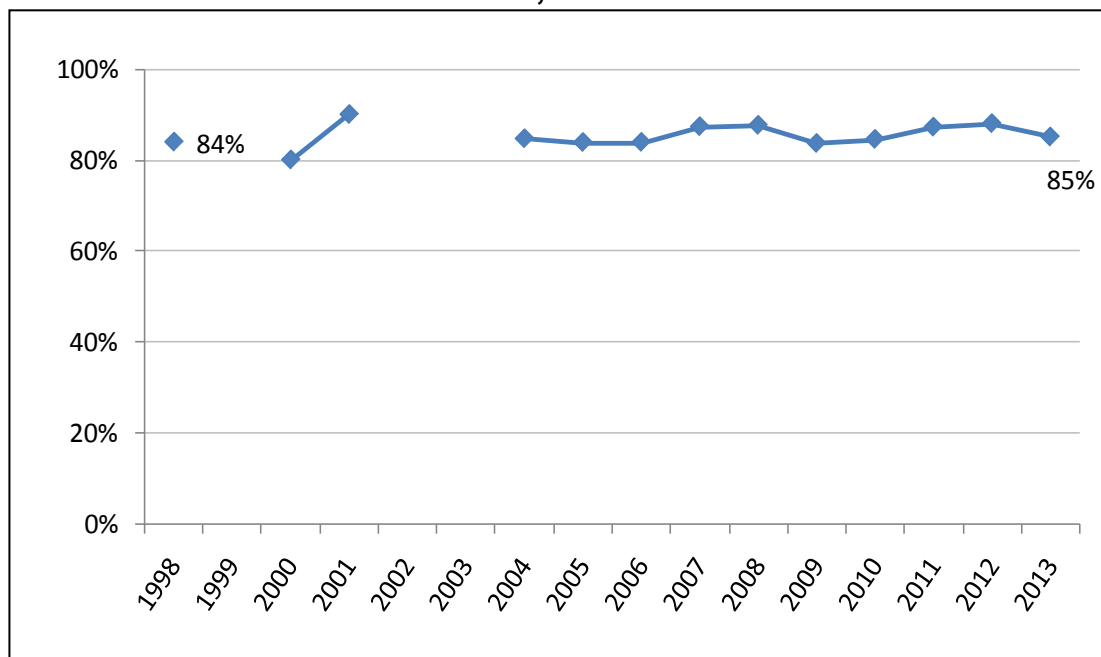


Source: Alaska Behavioral Risk Factor Surveillance System

- Across Alaska, most people report that smoking is not allowed anywhere inside their homes. There are no significant differences by geographic region, or among the selected boroughs.
- Public Health Regions include:
 - Northern – Nome, Northwest Arctic, and North Slope
 - Southwest – Bristol Bay, East Aleutians, West Aleutians, Dillingham, Lake & Peninsula, Bethel, and Wade Hampton
 - Gulf Coast – Kenai, Kodiak, and Valdez Cordova
 - Interior – Denali, Fairbanks North Star, Southeast Fairbanks, and Yukon Koyukuk
 - Southeast – Yakutat, Skagway, Hoonah-Angoon, Juneau, Sitka, Haines, Wrangell, Petersburg, Prince of Wales-Hyder, and Ketchikan Gateway
 - Anchorage/Mat-Su – Municipality of Anchorage, Matanuska-Susitna Borough

B. *Secondhand Smoke at Work*

Figure 59. Percent of Adults Working Primarily Indoors Who Report that Smoking is Not Allowed in Work Areas, by Year, Alaska, 1998 – 2013



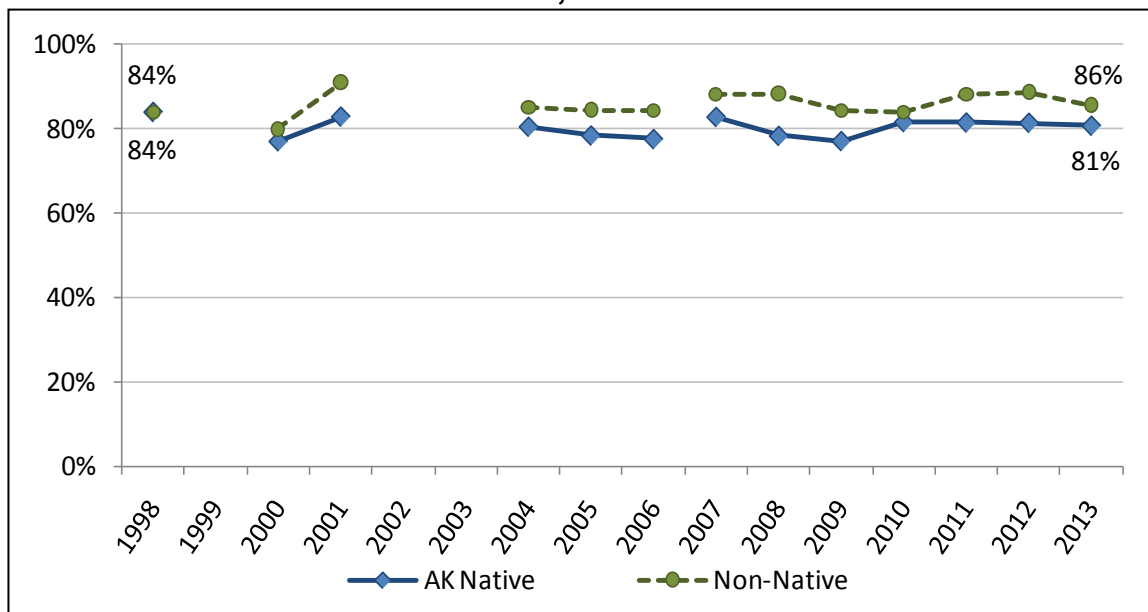
Source: Alaska Behavioral Risk Factor Surveillance System (information not collected in 1999, 2002, or 2003).

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- The percent of adults working primarily indoors who report that their workplace does not allow smoking in work areas did not show a significant increase between 1998 and 2013.
- Among Alaska adults in the workforce, nearly 4 out of 5 (79.1%) report working primarily indoors. Among all Alaska adults, over half (54.7%) work primarily indoors, about 1 out of 6 (16.7%) do not work indoors, and nearly one third (30.8%) report not being employed in the workforce.

Source: 2013 Alaska Behavioral Risk Factor Surveillance System

Figure 60. Percent of Adults Working Primarily Indoors Who Report that Smoking is Not Allowed in Work Areas by Year and Alaska Native Status, Alaska, 1998 – 2013

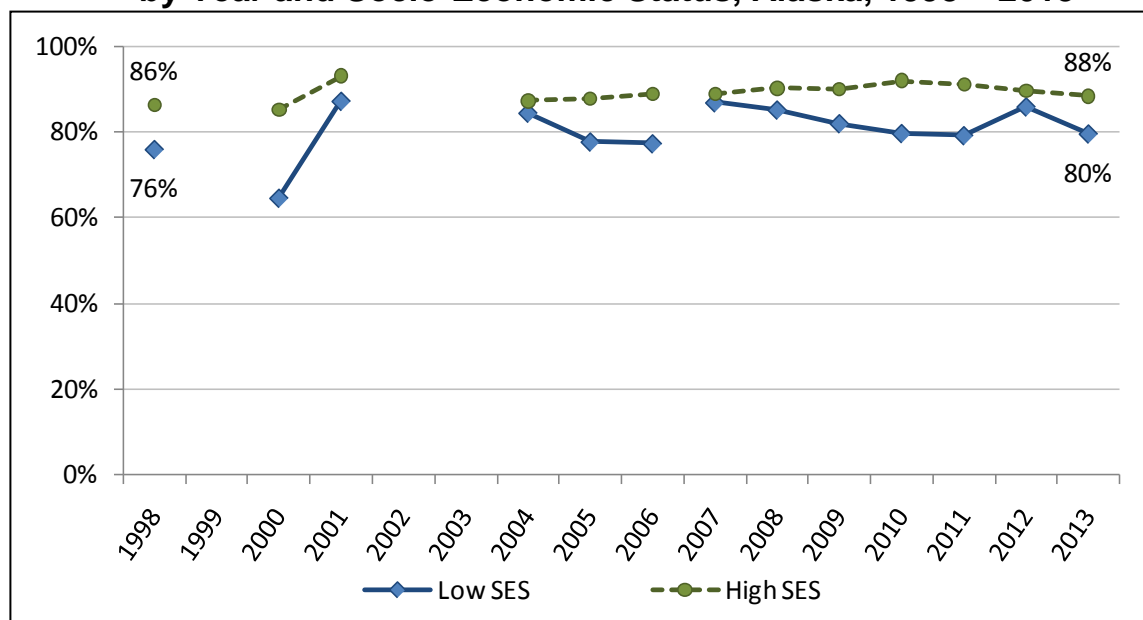


Source: Alaska Behavioral Risk Factor Surveillance System (information not collected in 1999, 2002, or 2003).

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- Among Alaska Native adults and non-Native adults who work primarily indoors, there was no significant change between 1998 and 2013 in the proportion who report that their workplace does not allow smoking in work areas.
- Among both groups, approximately 4 in 5 are protected by smokefree workplace policies.

Figure 61. Percent of Non-Native Adults Age 25-64 Working Primarily Indoors Who Report that Smoking is Not Allowed in Work Areas, by Year and Socio-Economic Status, Alaska, 1998 – 2013

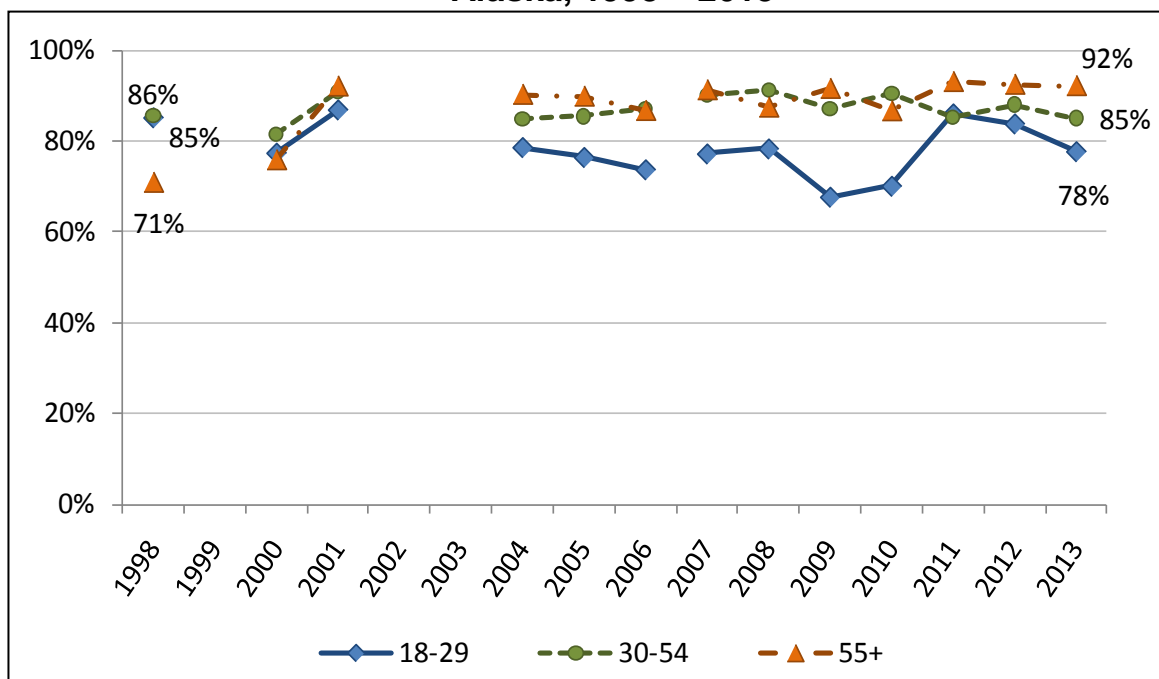


Source: Alaska Behavioral Risk Factor Surveillance System (information not collected in 1999, 2002, or 2003).

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- Among higher SES non-Native adults age 25 to 64 working primarily indoors, the percent who report that their workplace does not allow smoking in work areas increased significantly from 86.3% in 1998 to 88.4% in 2013.

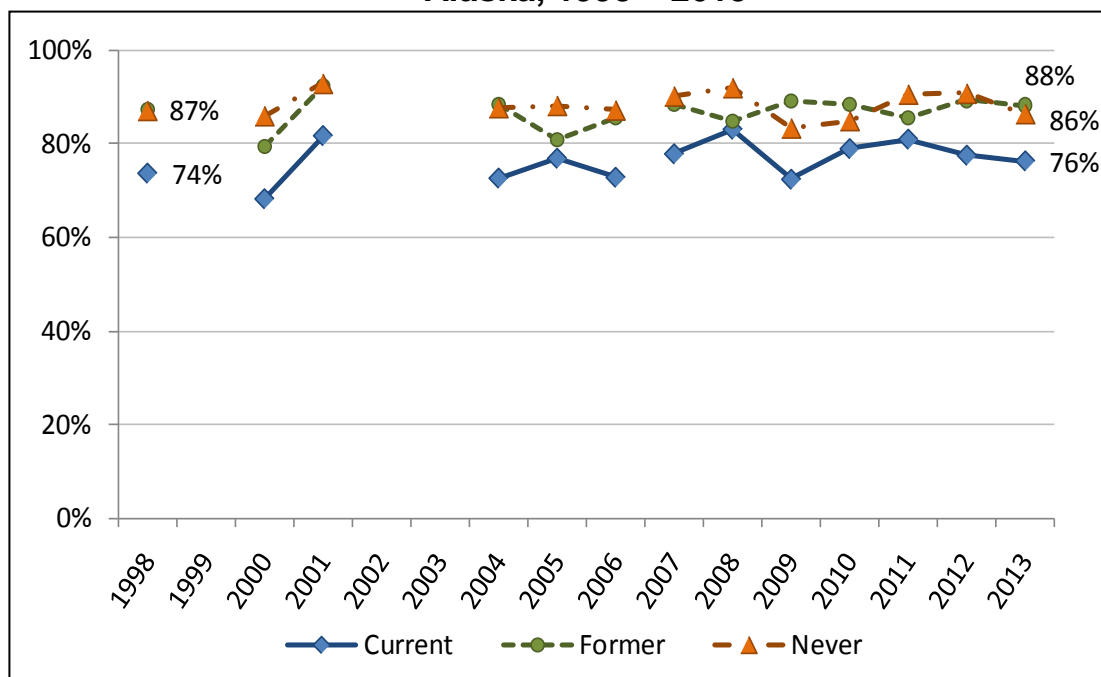
Figure 62. Percent of Adults Working Primarily Indoors Who Report that Smoking is Not Allowed in Work Areas, by Year and Age Group, Alaska, 1998 – 2013



Source: Alaska Behavioral Risk Factor Surveillance System (information not collected in 1999, 2002, or 2003).
Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- The proportion of workers who are protected by workplace smokefree policies has increased among older adults age 55 and over, from 71.0% in 1998 to 92.1% in 2013.

Figure 63. Percent of Adults Working Primarily Indoors Who Report that Smoking is Not Allowed in Work Areas, by Year and Smoking Status, Alaska, 1998 – 2013

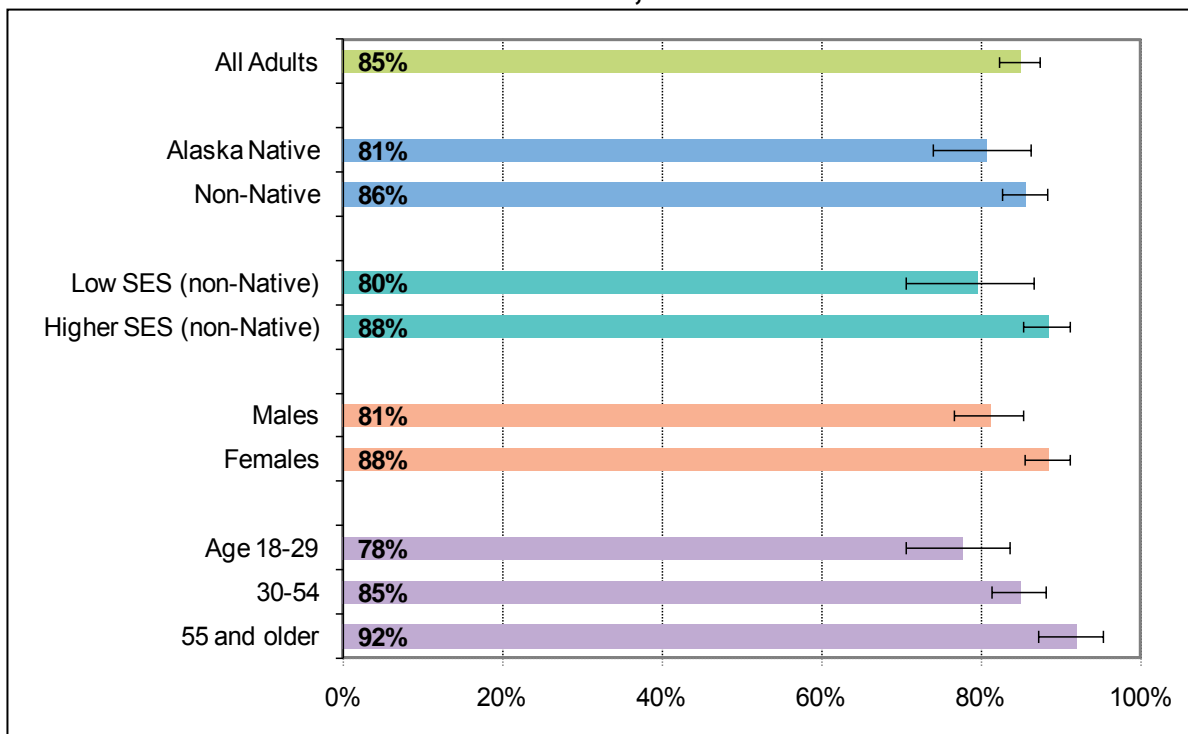


Source: Alaska Behavioral Risk Factor Surveillance System (information not collected in 1999, 2002, or 2003).

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- The proportion of indoor workers in Alaska who are protected by workplace smokefree policies has remained relatively high from 1998 to 2013, although current smokers are less likely to report that smoking is not allowed in their workplaces.
- The proportion of workers protected by workplace smokefree policies has not increased significantly over this time period, among current smokers, former smokers or never smokers.

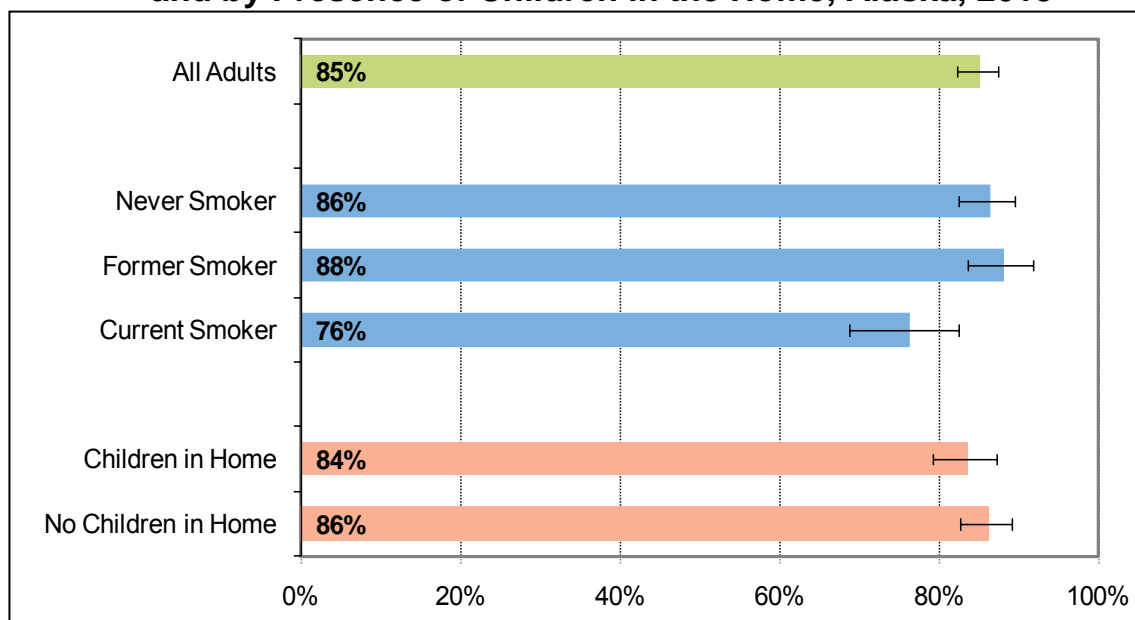
Figure 64. Percent of Adults Working Primarily Indoors Who Report that Smoking is Not Allowed in Work Areas, by Selected Demographic Factors, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- Almost nine in ten Alaska adults who work primarily indoors (85.0%) report that smoking is not allowed in work areas at their workplaces.
- Among adults who work primarily indoors, men are significantly less likely than women to be protected by smokefree workplace policies.
- Among non-Native adults aged 25 to 64 who work primarily indoors, those of lower SES are significantly less likely than those of higher SES to report that smoking was not allowed anywhere in their workplace.
- Young adults who work primarily indoors are significantly less likely to be protected by smokefree workplace policies than adults aged 30 to 54 or older adults age 55 and older.

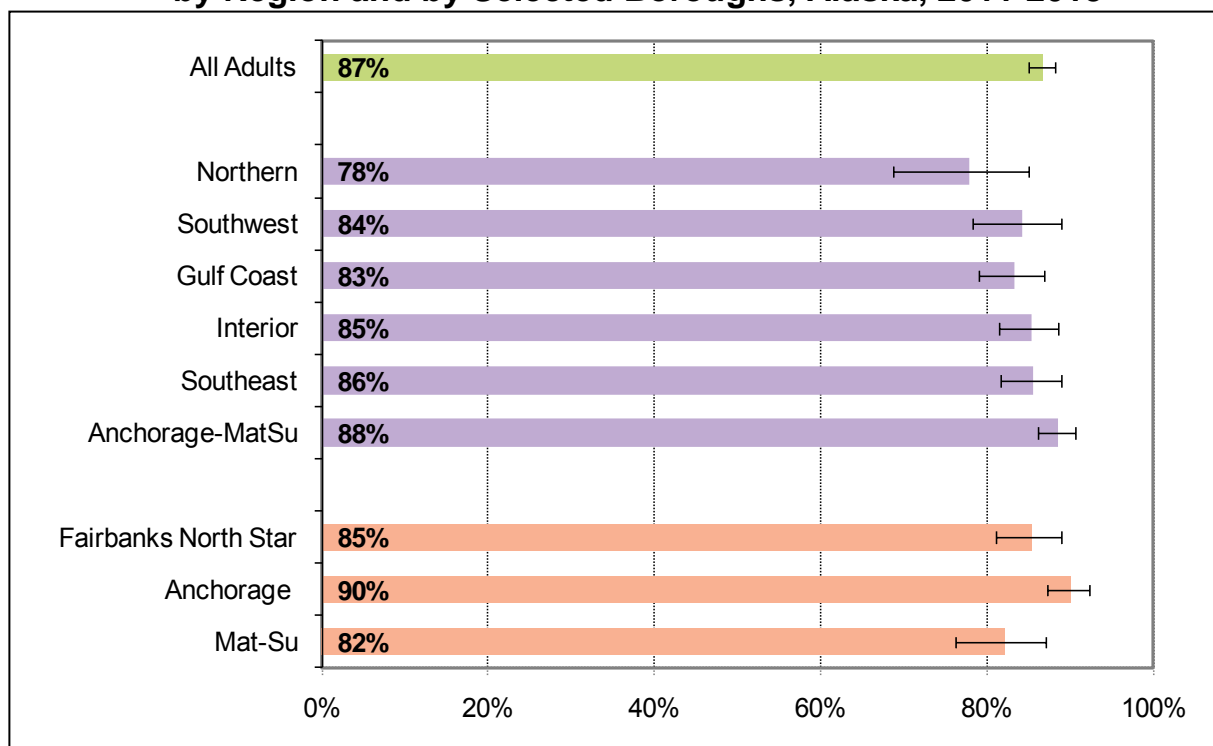
Figure 65. Percent of Adults Working Primarily Indoors Who Report that Smoking is Not Allowed in Work Areas, by Smoking Status and by Presence of Children in the Home, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- Among adults working primarily indoors, current smokers are significantly less likely than both former smokers and never smokers to report having smokefree workplace policies at their place of work.

Figure 66. Percent of Adults Working Primarily Indoors Who Report that Smoking is Not Allowed in Work Areas, by Region and by Selected Boroughs, Alaska, 2011-2013

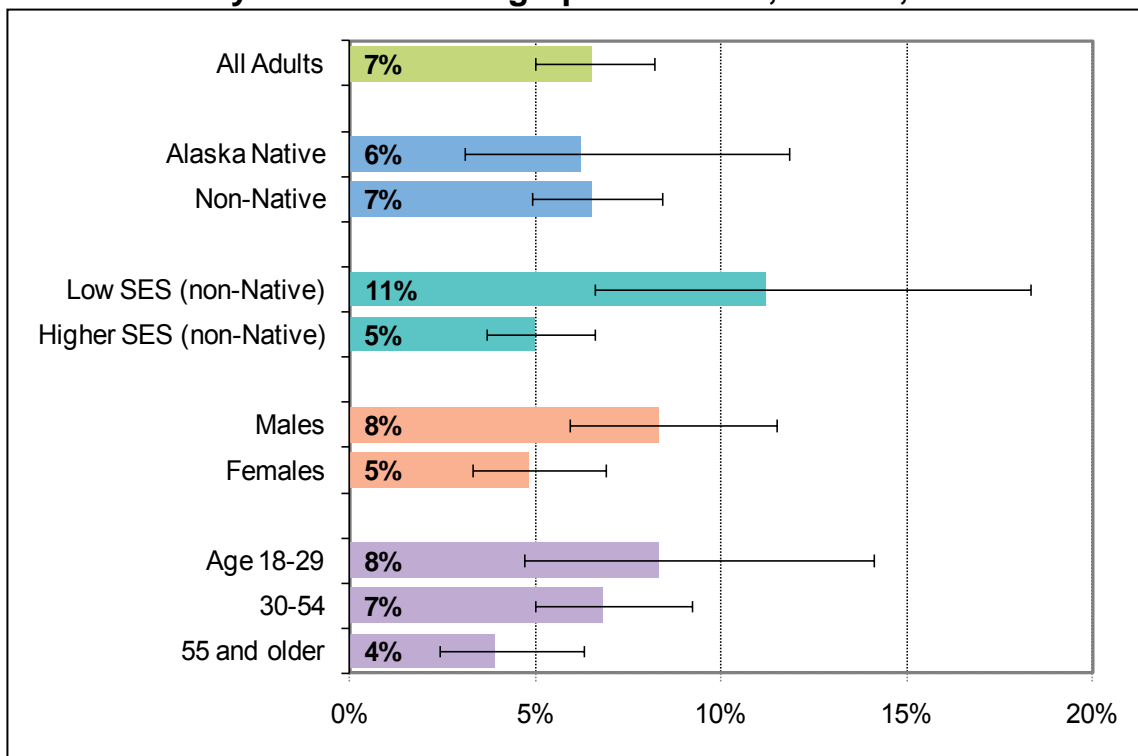


Source: Alaska Behavioral Risk Factor Surveillance System

Note: Percentages reported in this graph are for 2011-2013 combined, and may differ from those reported elsewhere for 2013 only.

- If we combine data for 2011 to 2013, we can compare the proportion of adults who work primarily indoors and report having smokefree workplace policies at their place of work by geographic location.
- Indoor adult workers in the Northern and Gulf Coast regions are significantly less likely to be protected by smokefree workplace policies than those in Anchorage/MatSu.
- Indoor adult workers in Mat-Su Borough and Fairbanks North Star Borough are significantly less likely to be protected by smokefree workplace policies than those in the Municipality of Anchorage.

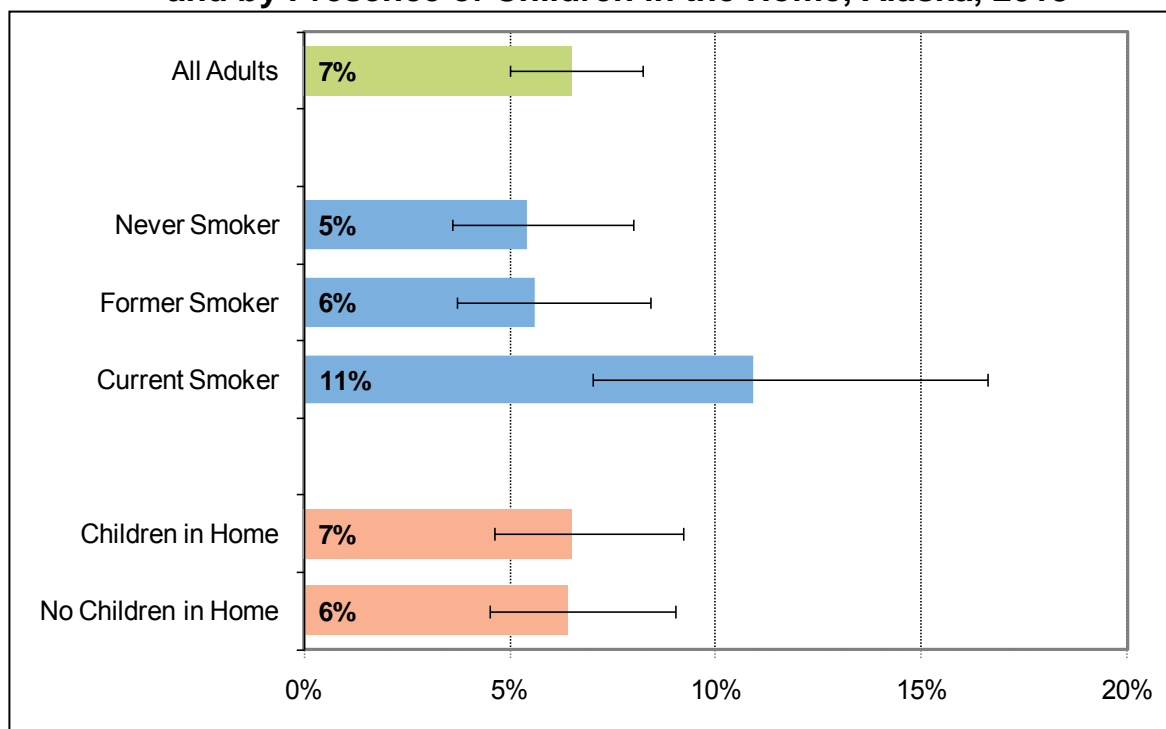
Figure 67. Percent of Adults Working Primarily Indoors Who Report Workplace Exposure to Smoke in Past 30 Days, by Selected Demographic Factors, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- The proportion of adults who work primarily indoors and report secondhand smoke exposure at the workplace in the past 30 days during 2013 just under half of the proportion who report not having smokefree policies at their workplace in 2013 (6.5% vs 15.0%).
- There are no significant differences in workplace smoke exposure by Alaska Native status, and the apparent difference by age group did not reach significance.
- Among non-Native adults age 25 to 64, those of lower SES are significantly more likely to report secondhand smoke exposure in the workplace than their higher SES counterparts.
- Men are significantly more likely to report secondhand smoke exposure in the workplace than women.
- The patterns for workplace secondhand smoke exposure are similar to those for workplace policies, where men, non-Native adults with lower SES, and younger adults (age 18-29) were less likely to be protected by smokefree workplace policies.

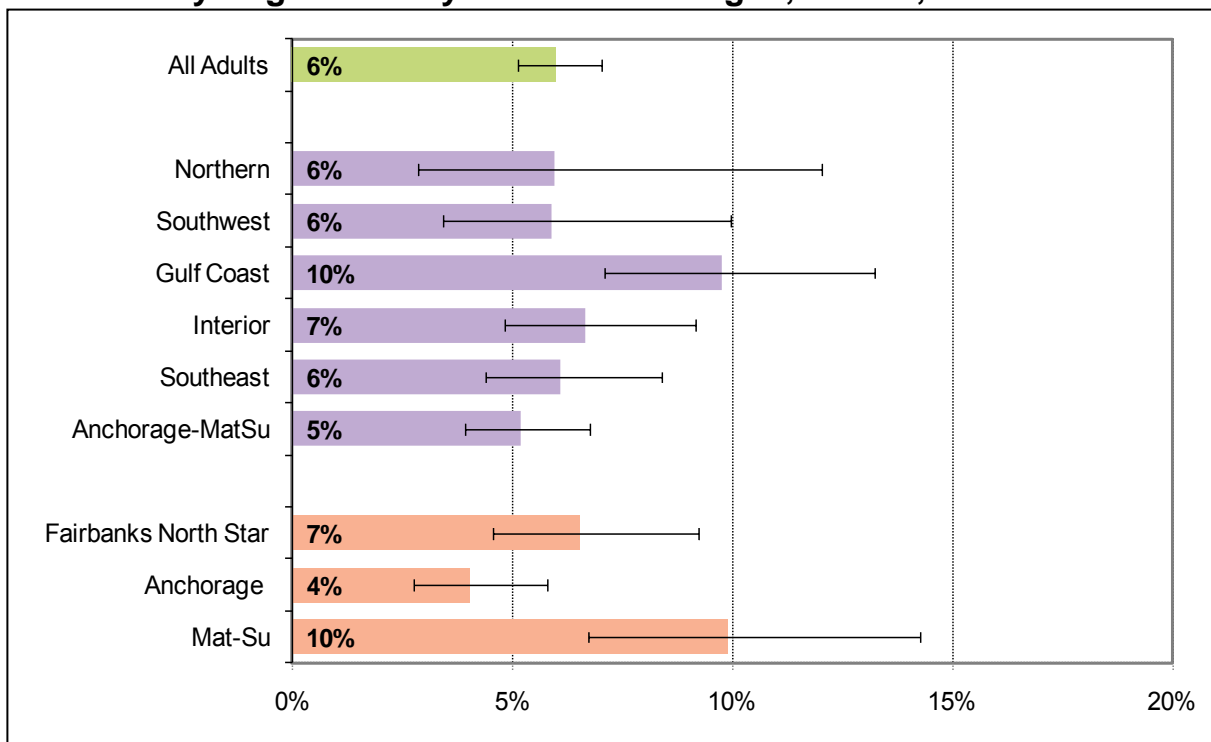
Figure 68. Percent of Adults Working Primarily Indoors Who Report Workplace Exposure to Smoke in Past 30 Days, by Smoking Status and by Presence of Children in the Home, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- Among adults working primarily indoors, current smokers are significantly more likely to report smoke exposure in their workplace in the past 30 days than those who are former smokers or who never smoked.
- There was no significant difference in workplace secondhand smoke exposure by whether the respondents have children living in the home or not.

Figure 69. Percent of Adults Working Primarily Indoors Who Report Exposure to Smoke Anywhere at the Workplace, by Region and by Selected Boroughs, Alaska, 2011-2013



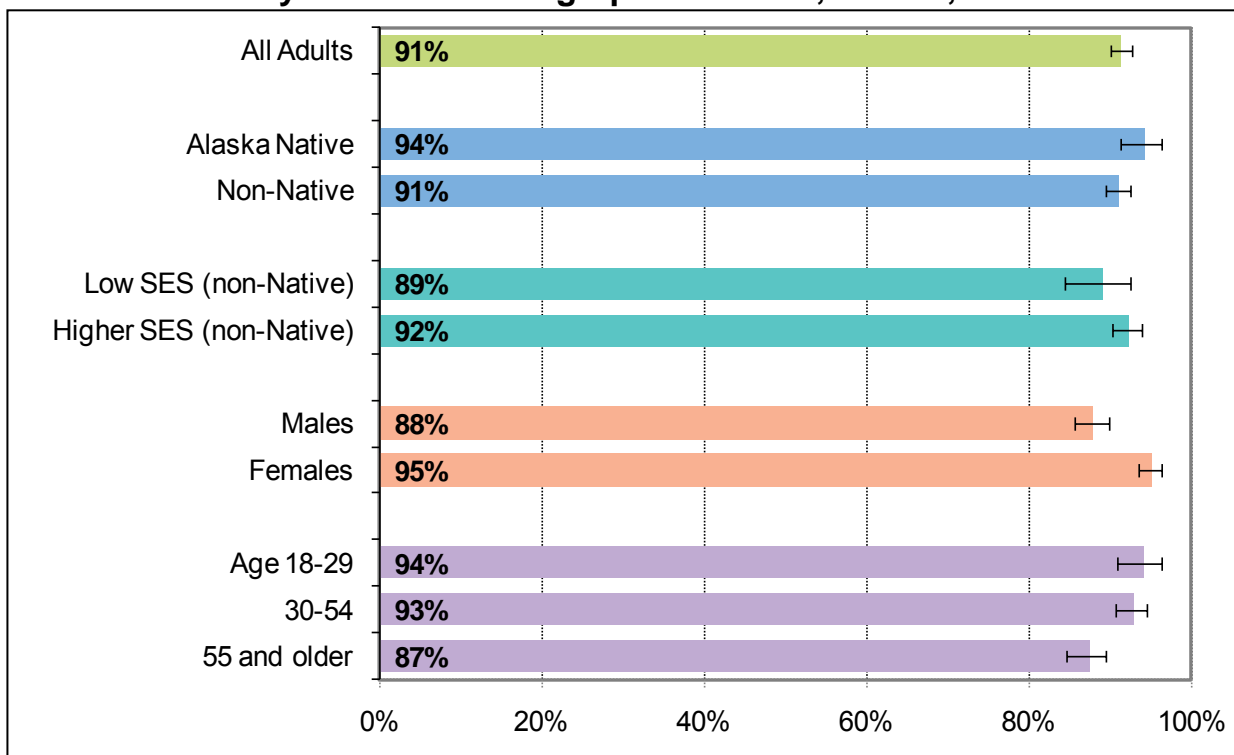
Source: Alaska Behavioral Risk Factor Surveillance System

Note: Percentages reported in this graph are for 2011-2013 combined, and may differ from those reported elsewhere for 2013 only.

- If we combine data for 2011 to 2013, we can compare the proportion of adults who work primarily indoors and report smoke exposure in their workplace in the past 30 days by geographic location.
- The proportion of adults reporting indoor workplace smoke exposure in Gulf Coast is significantly higher than in Anchorage-MatSu and Southeast Alaska.
- Indoor adult workers in Mat-Su Borough are significantly more likely to report indoor workplace smoke exposure than those in the Municipality of Anchorage.
- Clean indoor air policies in Anchorage and Juneau enacted prior to 2010 protect more workers in these jurisdictions.

C. Knowledge of Health Risks from Secondhand Smoke Exposure

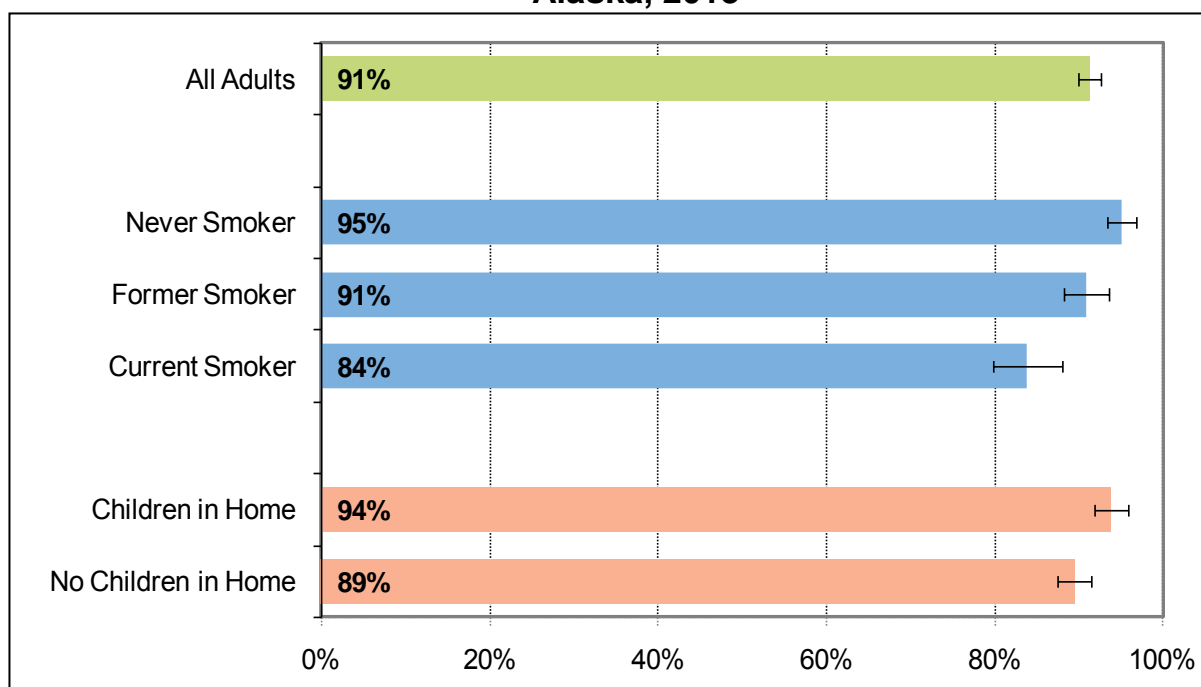
Figure 70. Percent of Adults Who Agree that Breathing Smoke from Other People's Cigarettes is Somewhat or Very Harmful to One's Health, by Selected Demographic Factors, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- Most Alaskans recognize that there are health risks to secondhand smoke exposure; 9 in 10 adults (91.3%) agree that secondhand smoke is harmful, and 6 in 10 (58.8%) agree that it is very harmful.
- Knowledge about the harm of secondhand smoke is high among Alaska Native and non-Native adults alike (94.2% and 91.1%).
- Younger Alaskan adults (age 18-29) and those age 30 to 54 are significantly more likely than older Alaskans (age 55+) to agree that breathing smoke from other people's cigarettes is harmful (94.1% and 92.8% vs 87.3%).
- Women are more likely than men to agree that breathing smoke from other people's cigarettes is harmful (95.1% vs 87.3%).

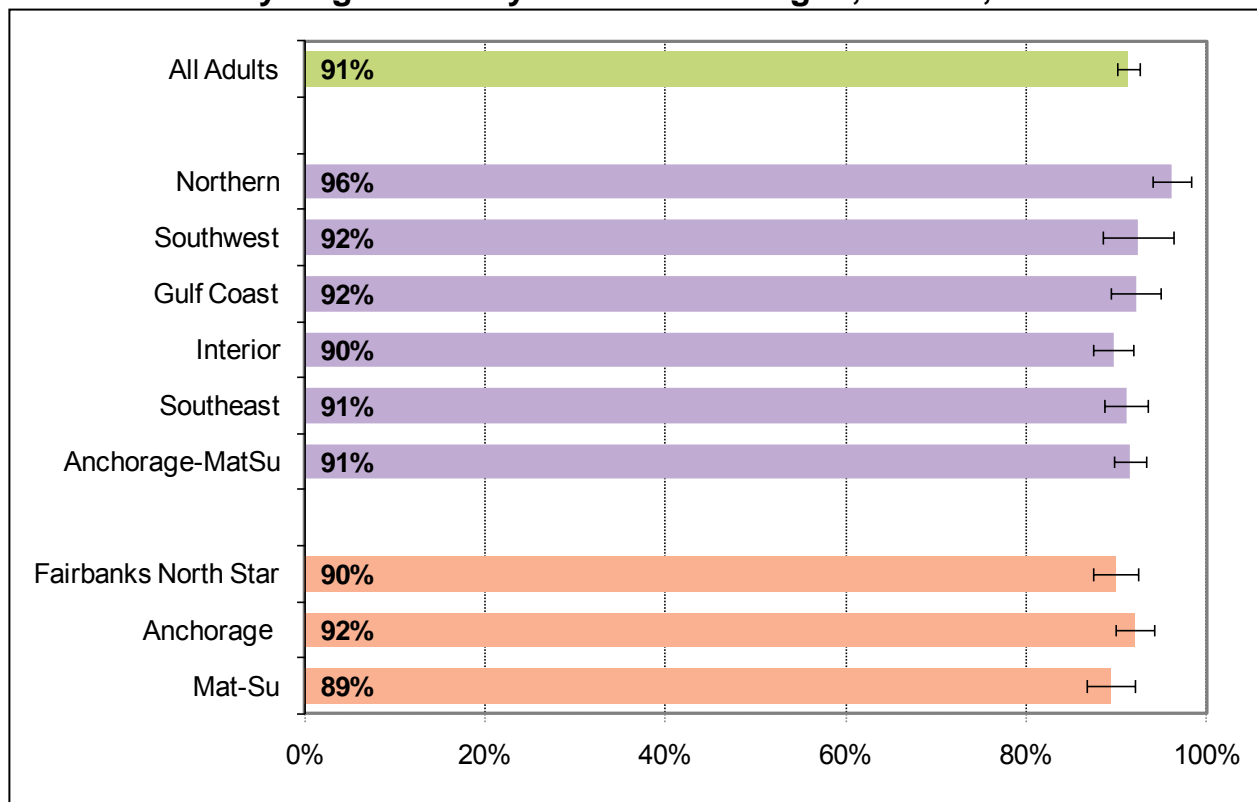
Figure 71. Percent of Adults Who Agree that Breathing Smoke from Other People's Cigarettes is Somewhat or Very Harmful to One's Health, by Smoking Status and by Presence of Children in the Home, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- Recognition that secondhand smoke is harmful to one's health is significantly higher among never smokers (95.1%) than among former smokers (90.9%) and current smokers (83.9%). The difference between former and current smokers was also significant. However, even among smokers, more than 4 in 5 agree that secondhand smoke is somewhat or very harmful.
- About 2 in 3 former and never smokers (58.3% and 65.8%, respectively) agree that secondhand smoke is very harmful, compared to 2 in 5 smokers (43.2%).
- Adults with children living in the home were significantly more likely to agree that secondhand smoke is harmful to one's health (93.8% vs 89.5%).

Figure 72. Percent of Adults Who Agree that Breathing Smoke from Other People's Cigarettes is Somewhat or Very Harmful to One's Health, by Region and by Selected Boroughs, Alaska, 2013

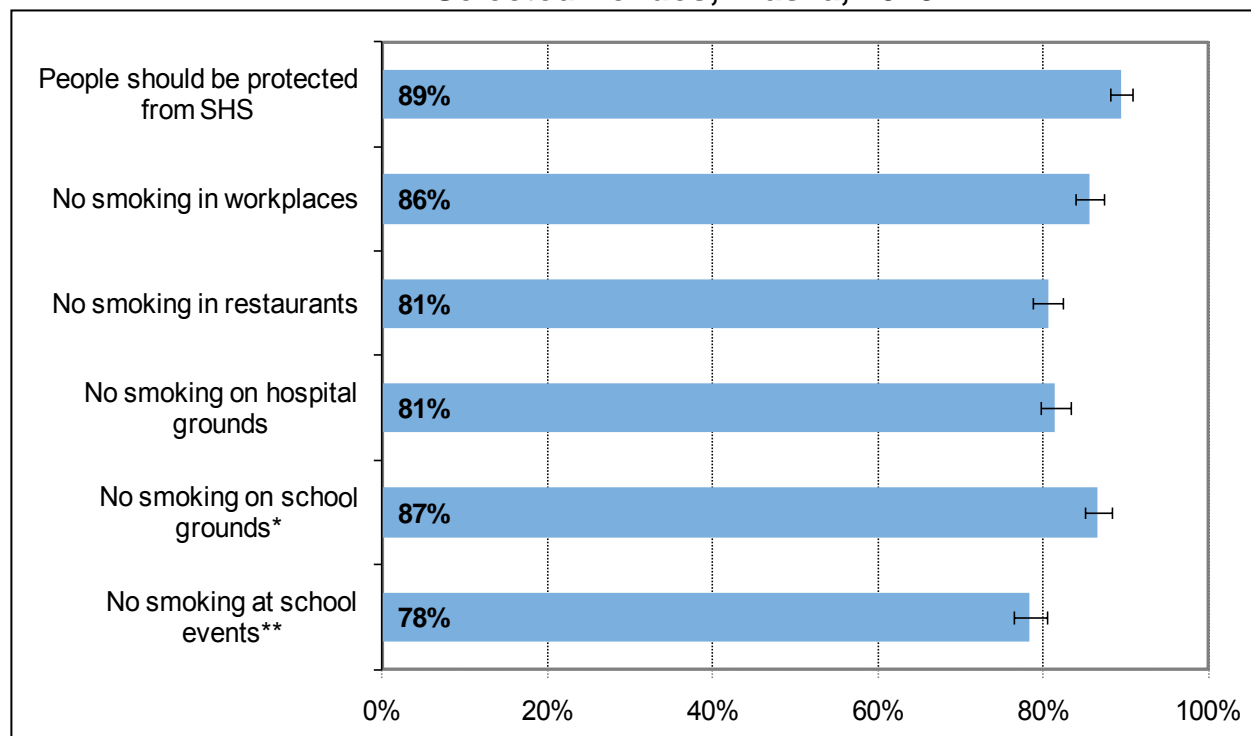


Source: Alaska Behavioral Risk Factor Surveillance System

- The proportion of adults who agree that secondhand smoke exposure is harmful to one's health is fairly high across Alaska. There are no significant differences by region or by selected boroughs.

D. Attitudes about Secondhand Smoke

Figure 73. Support for Protection against Secondhand Smoke in Selected Venues, Alaska, 2013



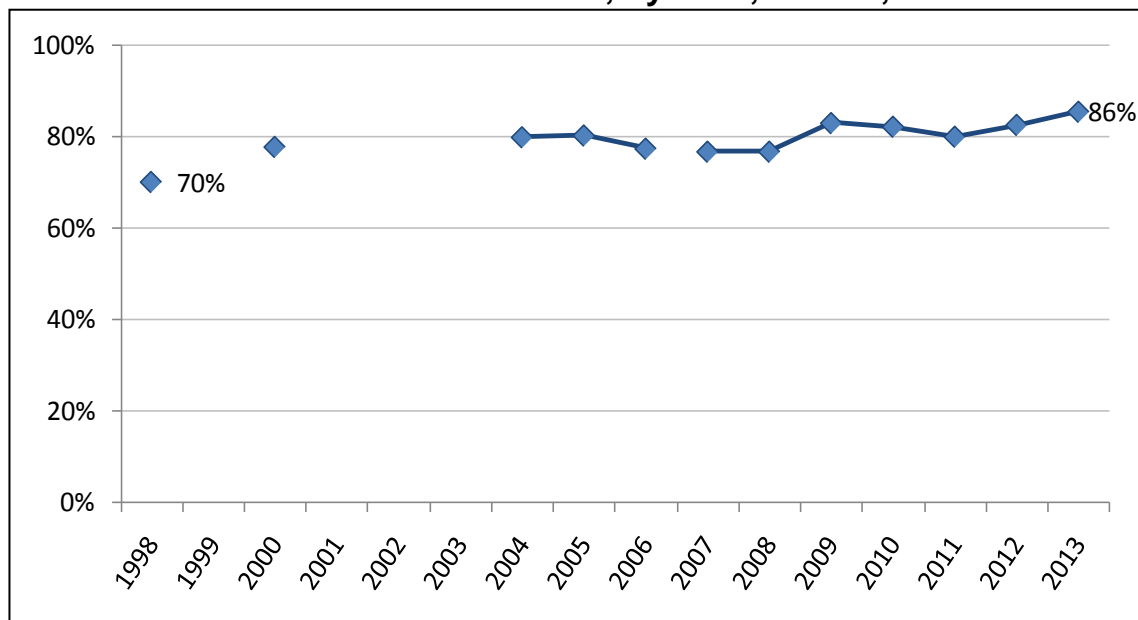
Source: Alaska Behavioral Risk Factor Surveillance System

* Support for not allowing smoking on school grounds after school hours, including evenings and weekends.

** Support for not allowing smoking at school-sponsored events, even those that are not held on school grounds.

- Nearly 9 in 10 Alaska adults (89.4%) agree that people should be protected from secondhand smoke (SHS). Support is high even among smokers; 8 in 10 smokers (81.1%) agree that people should be protected from SHS.
- There is widespread support for clean indoor air policies. About 4 in 5 Alaska adults agree that smoking should not be allowed in hospitals or on hospital grounds, or in workplaces, including restaurants. Even among smokers, about 7 in 10 agree that smoking should not be allowed in these places.
- Studies across the country show that comprehensive clean indoor air policies do not have an adverse impact on the hospitality industry.
Source: The Health Consequences of Involuntary Exposure to Tobacco Smoke: A Report of the Surgeon General. (2006).
- Most Alaska adults agree that smoking should not be allowed on school grounds, during school (95.2%), after school or on weekends (86.6%) or even at school events held off school grounds (78.3%).

Figure 74. Percent of Adults Who Agree that Smoking Should Not Be Allowed in Indoor Work Areas, by Year, Alaska, 1998 – 2013

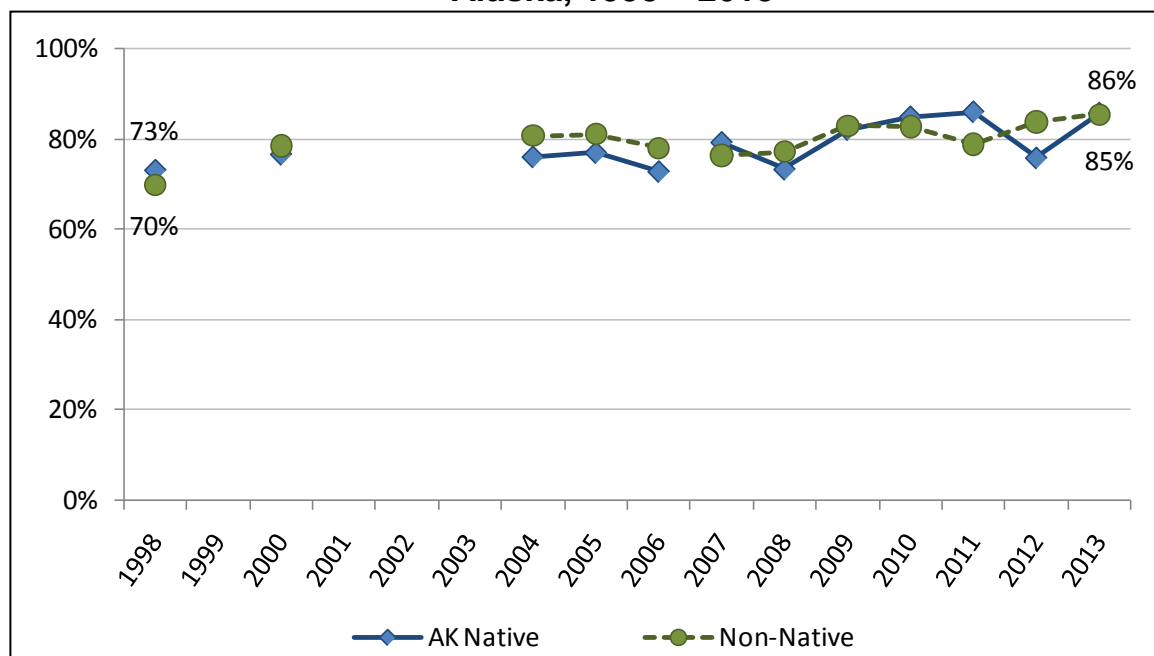


Source: Alaska Behavioral Risk Factor Surveillance System (information not collected in 1999 or 2001 through 2003).

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- Support for policies that protect people from secondhand smoke (SHS) have increased across many groups of Alaskans. The proportion of adults who agree that smoking should not be allowed in indoor work areas has increased from 70.0% in 1998 to 85.5% in 2013.
- Support for smokefree workplaces increased among both men and women, and among most demographic groups.
- Regionally, support for smokefree workplaces increased significantly in Gulf Coast, Interior, and Anchorage/Mat-Su. See Appendix A Table 14 for more information.

Figure 75. Percent of Adults Who Agree that Smoking Should Not Be Allowed in Indoor Work Areas, by Year and Alaska Native Status, Alaska, 1998 – 2013

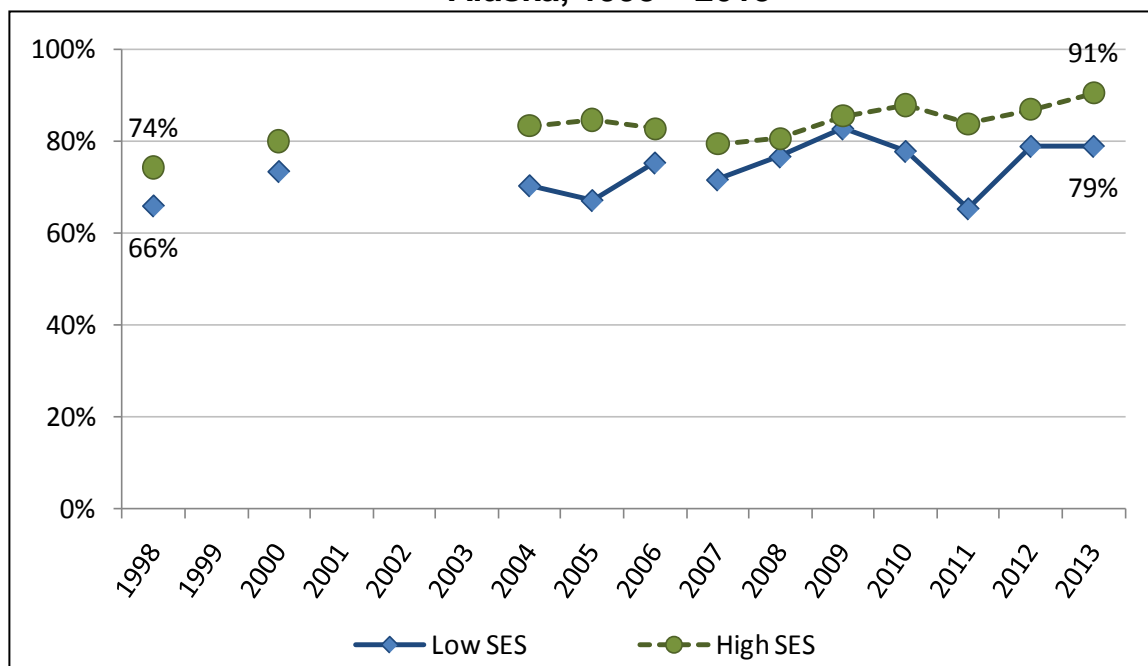


Source: Alaska Behavioral Risk Factor Surveillance System (information not collected in 1999 or 2001 through 2003).

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- The proportion of Alaska Native adults who agree that smoking should not be allowed in indoor work areas has increased from 73.2% in 1998 to 85.7% in 2013.
- The proportion of non-Native adults who agree that smoking should not be allowed in indoor work areas has increased from 69.7% in 1998 to 85.4% in 2013.

Figure 76. Percent of Non-Native Adults Age 25-64 Who Agree that Smoking Should Not Be Allowed in Indoor Work Areas, by Year and Socio-Economic Status, Alaska, 1998 – 2013

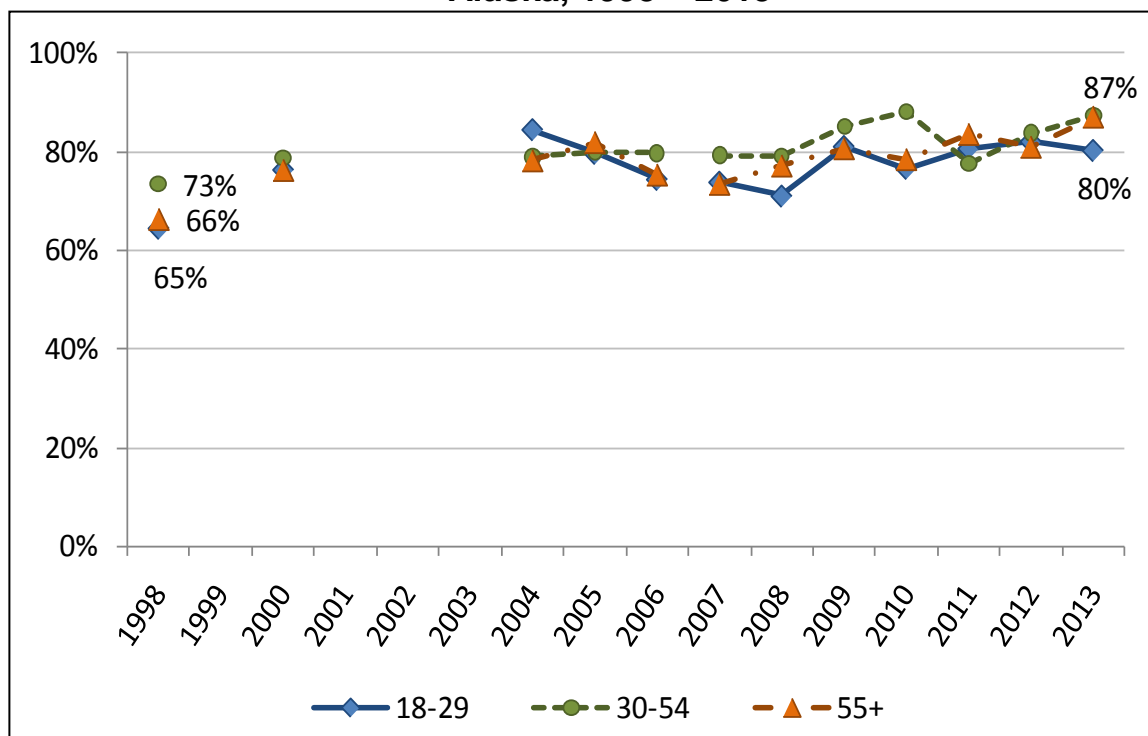


Source: Alaska Behavioral Risk Factor Surveillance System (information not collected in 1999 or 2001 through 2003).

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- Among low SES non-Native adults age 25 to 64, the percent who agree that smoking should not be allowed in indoor work areas has significantly increased from 65.9% in 1998 to 78.9% in 2013.
- Among higher SES non-Native adults age 25 to 64, the percent who agree that smoking should not be allowed in indoor work areas also increased significantly from 74.3% in 1998 to 90.5% in 2013.

Figure 77. Percent of Adults Who Agree that Smoking Should Not Be Allowed in Indoor Work Areas, by Year and Age Group, Alaska, 1998 – 2013

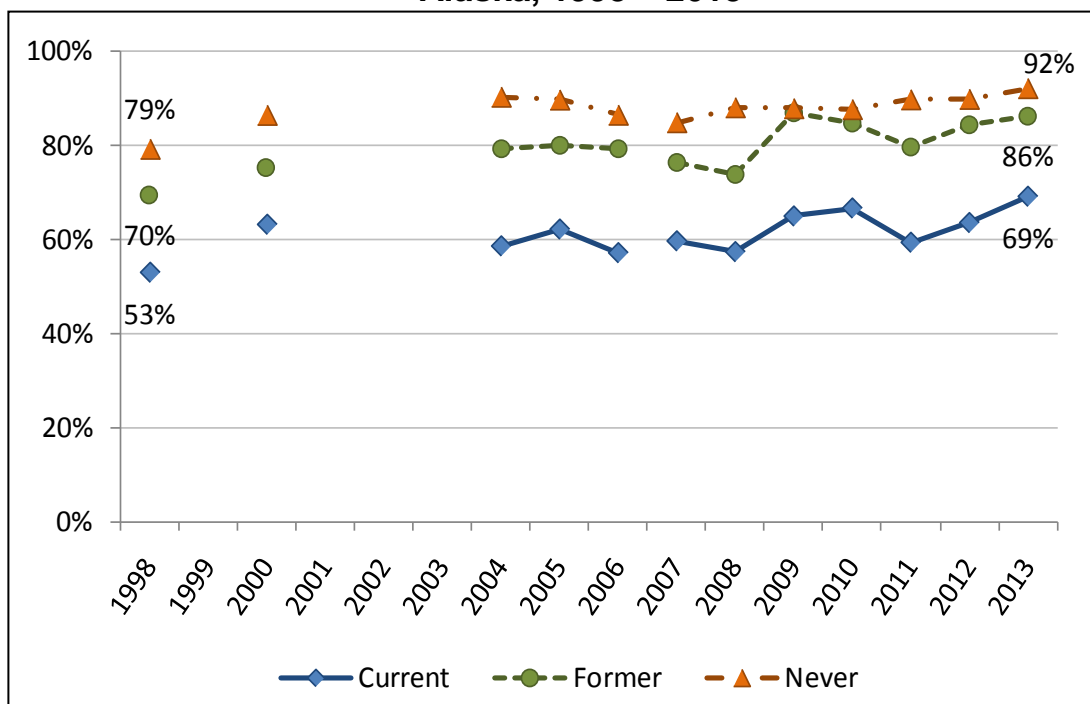


Source: Alaska Behavioral Risk Factor Surveillance System (information not collected in 1999 or 2001 through 2003).

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- The proportion of Alaska adults age 18 to 29 who support smokefree workplace policies increased from about 2 in 3 (64.6%) in 1998 to 4 in 5 (80.3%) in 2013.
- The proportion of Alaska adults age 30 to 54 who support smokefree workplace policies increased from 73.4% in 1998 to 87.3% in 2013.
- The proportion of Alaska adults age 55 and older who support smokefree workplace policies increased from 2 in 3 (66.4%) in 1998 to almost 9 in 10 (87.1%) in 2013.

Figure 78. Percent of Adults Who Agree that Smoking Should Not Be Allowed in Indoor Work Areas, by Year and Smoking Status, Alaska, 1998 – 2013

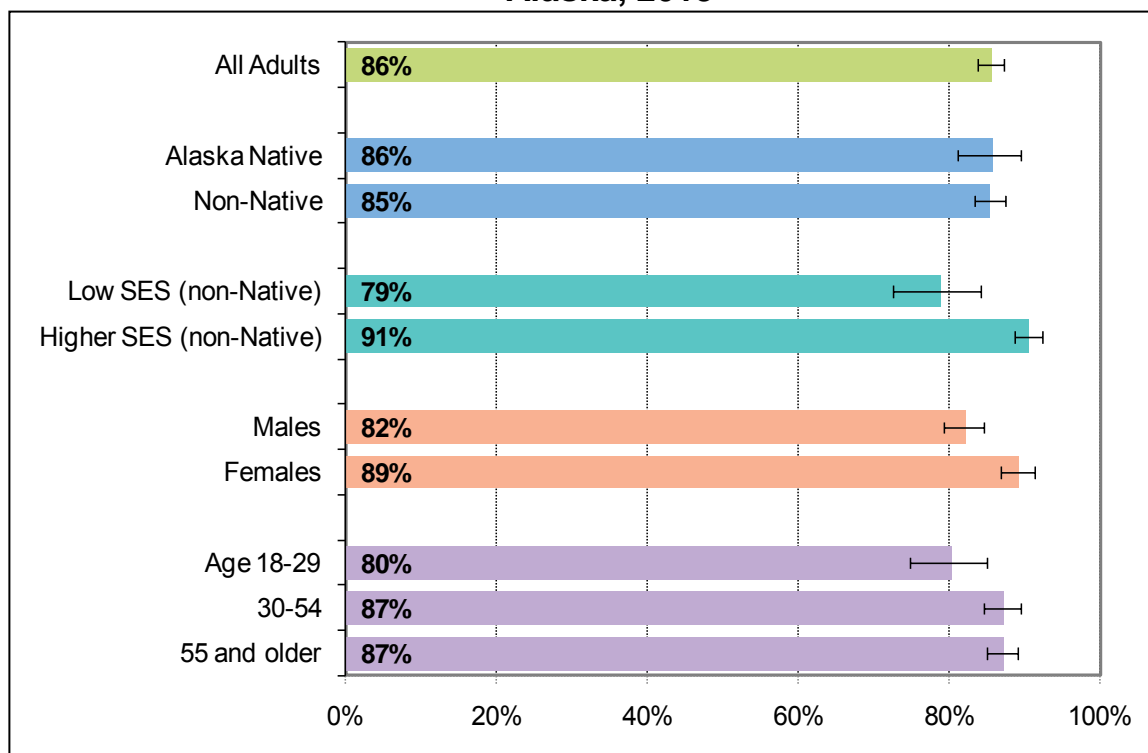


Source: Alaska Behavioral Risk Factor Surveillance System (information not collected in 1999 or 2001 through 2003).

Estimates for 2007 and later use a new weighting method; see Appendix B for more information.

- The proportion of Alaska adults who agree that smoking should not be allowed in indoor work areas has now increased significantly among both smokers and non-smokers. Among current smokers, this proportion increased from 53.0% in 1998 to 69.2% in 2013.
- The proportion of Alaska adult never smokers who agree that smoking should not be allowed in indoor work areas increased significantly from 79.2% in 1998 to 92.2% in 2013.
- The proportion of Alaska adult former smokers who agree that smoking should not be allowed in indoor work areas increased significantly from 69.6% in 1998 to 86.3% in 2013.

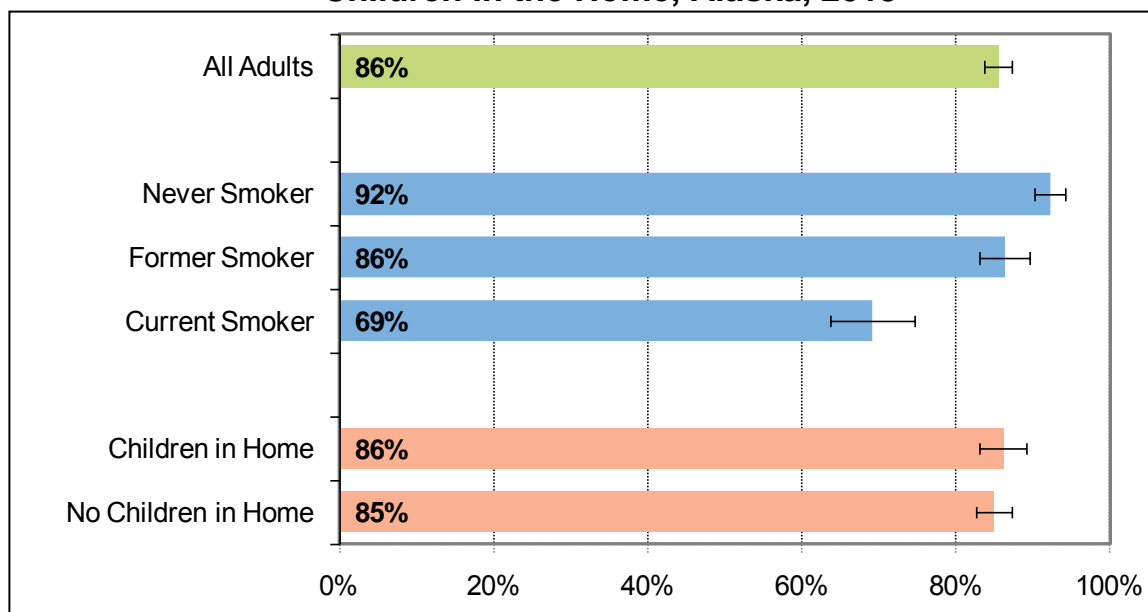
Figure 79. Percent of Adults Who Agree that Smoking Should Not Be Allowed in Indoor Work Areas, by Selected Demographic Factors, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- More than 4 in 5 Alaska adults (85.5%) support smokefree workplaces. Support is high across most groups of people.
- Alaska Native and non-Native adults were equally likely to support smokefree workplaces (85.7% vs 85.4%).
- Support for smokefree workplaces is significantly higher among higher SES non-Native adults age 25 to 64 than those of low SES (90.5% vs 78.9%).
- Women are significantly more likely than men to support smokefree workplaces (89.1% vs 82.1%).
- Younger Alaska adults (age 18-29) are slightly less likely to express support for smokefree workplaces than are adults age 30-54 or older adults age 55+.

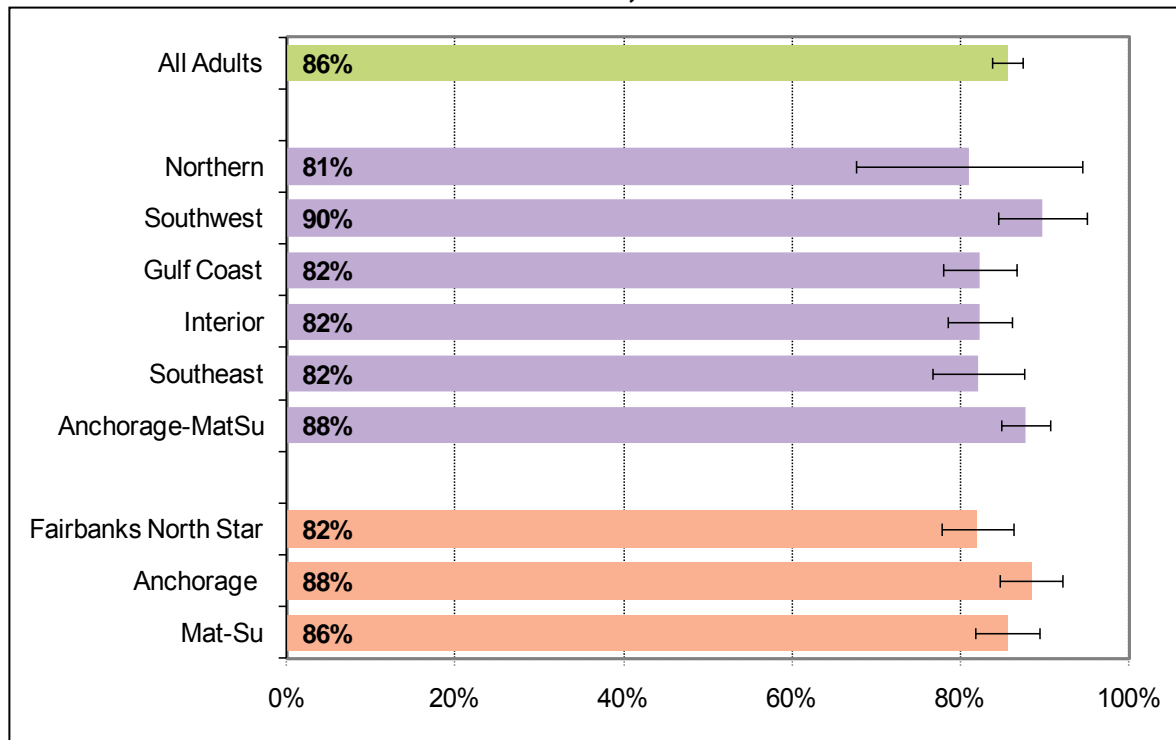
Figure 80. Percent of Adults Who Agree that Smoking Should Not Be Allowed in Indoor Work Areas, by Smoking Status and by Presence of Children in the Home, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- Support for smokefree workplaces is significantly higher among never smokers (92.2%) than former smokers (86.3%) or current smokers (69.2%).
- Both former and never smokers are also more likely than current smokers to support smokefree workplace policies.
- There was no difference in support for smokefree workplaces among those with children in the home and those without children in the home.

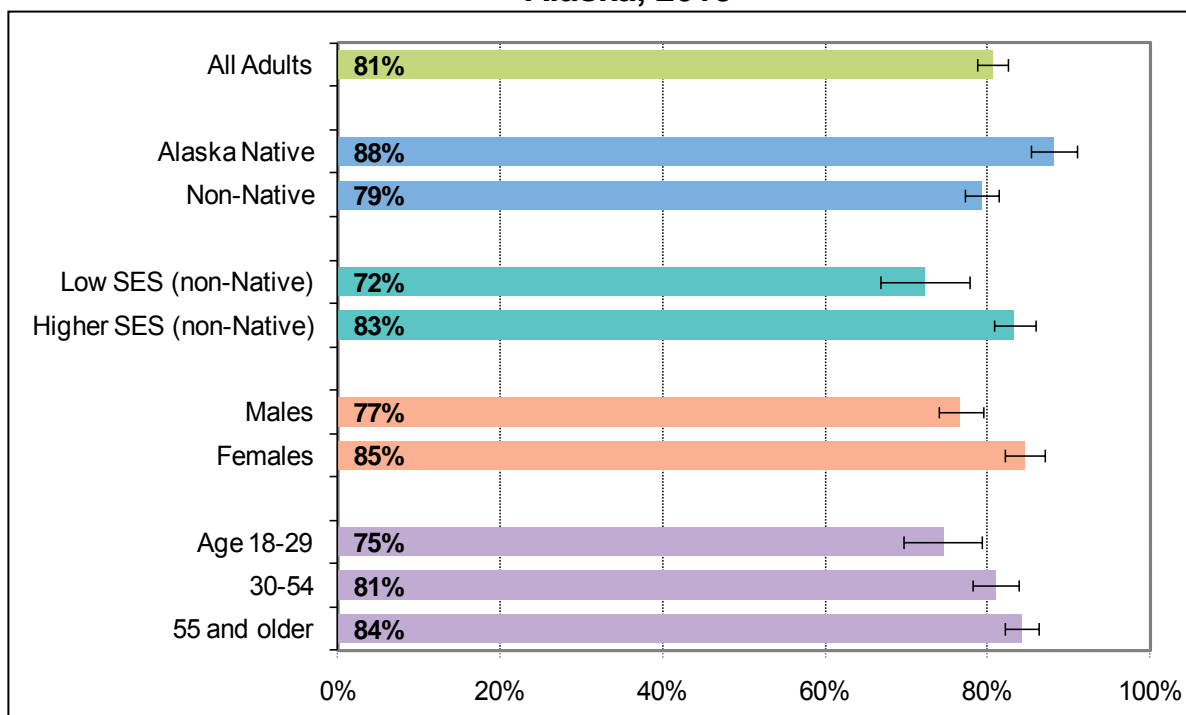
Figure 81. Percent of Adults Who Agree that Smoking Should Not Be Allowed in Indoor Work Areas, by Region and by Selected Boroughs, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- The proportion of adults who agree that smoking should not be allowed in indoor work areas is fairly high across all regions in Alaska. In all regions, at least 4 out of 5 adults express support for smokefree workplaces.
- In 2013, support for smokefree workplaces was significantly higher in both Anchorage/Mat-Su and Southwest Alaska, than in all other regions except Northern Alaska (for which the apparent difference did not reach statistical significance).
- In 2013, support for smokefree workplaces was also significantly higher in the Municipality of Anchorage than it was in Fairbanks North Star.

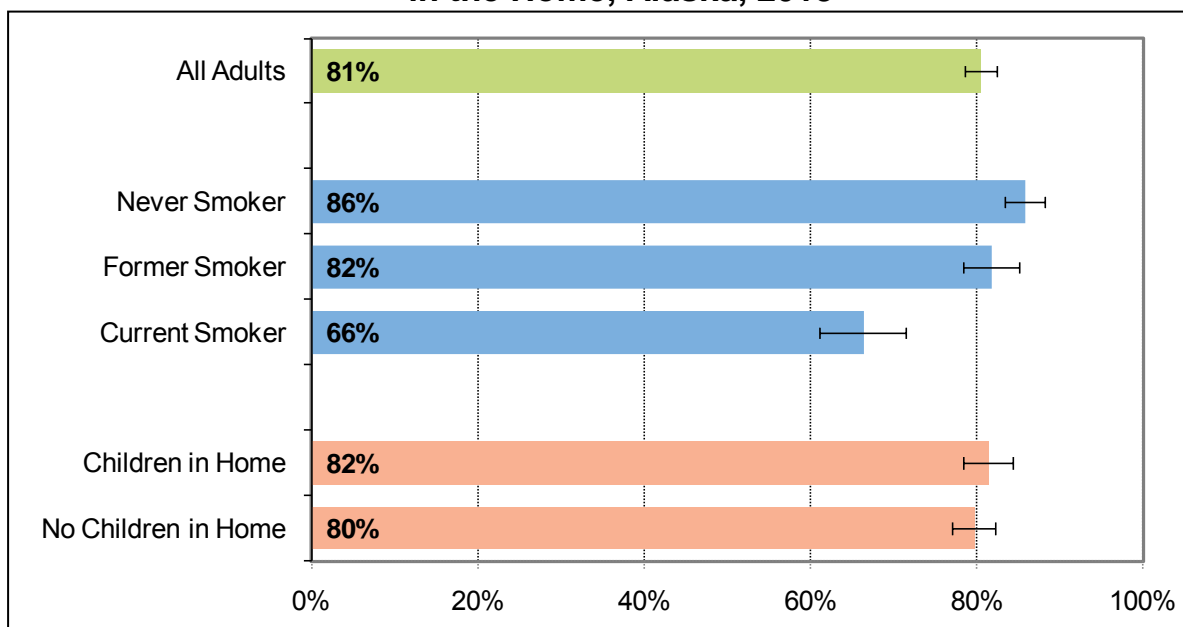
Figure 82. Percent of Adults Who Agree that Smoking Should Not Be Allowed in Restaurants, by Selected Demographic Factors, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- About 4 in 5 Alaska adults (80.5%) support smokefree restaurants. Support is high across most groups of people, although there were some significant differences between groups in 2013.
- Alaska Native adults are significantly more likely than non-Native adults to support smokefree restaurants (88.2% vs 79.3%).
- Support for smokefree restaurants is significantly higher among higher SES non-Native adults age 25 to 64 than those of low SES (83.3% vs 72.3%).
- Women are significantly more likely than men to support smokefree restaurants (84.6% vs 76.7%).
- Younger Alaska adults (age 18-29) are slightly less likely to express support for smokefree restaurants than are adults age 30-54 or older adults age 55+.

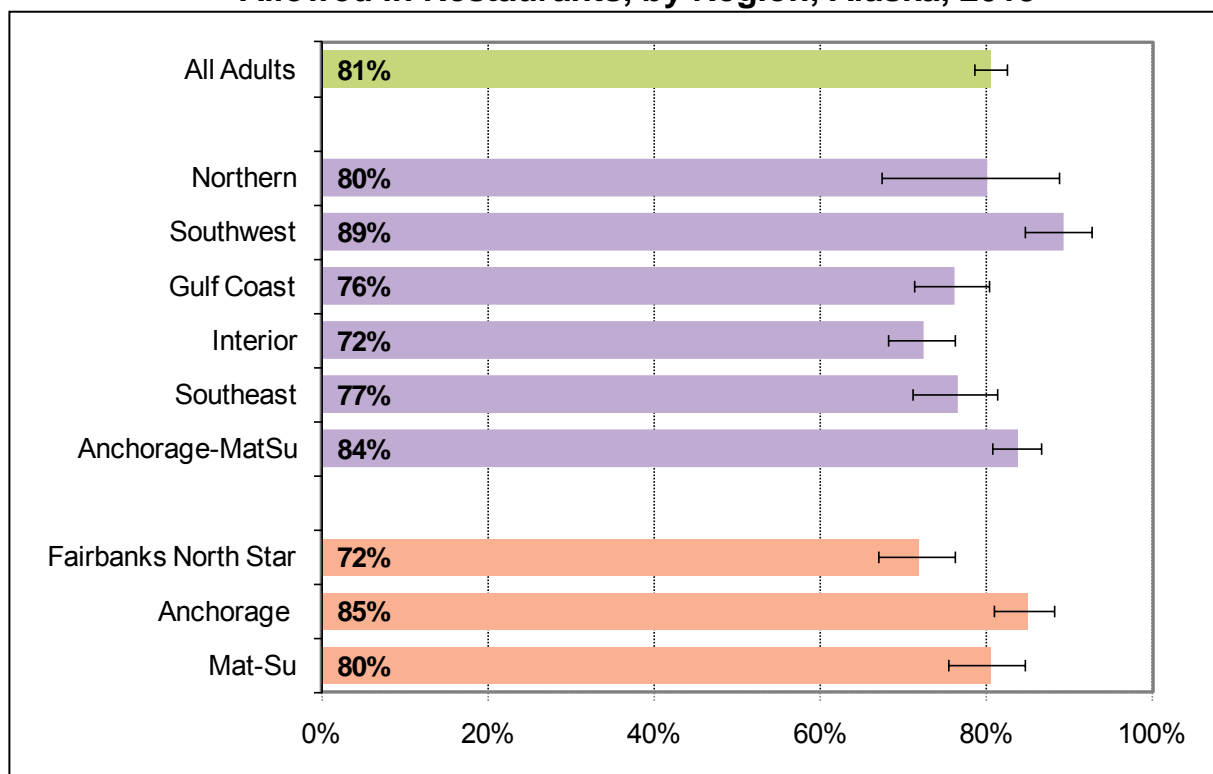
Figure 83. Percent of Adults Who Agree that Smoking Should Not Be Allowed in Restaurants, by Smoking Status and by Presence of Children in the Home, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- Support for smokefree restaurants is significantly higher among never smokers (85.9%) and former smokers (81.9%) than it is among current smokers (66.4%).

Figure 84. Percent of Adults Who Agree that Smoking Should Not Be Allowed in Restaurants, by Region, Alaska, 2013



Source: Alaska Behavioral Risk Factor Surveillance System

- Although the proportion of adults who agree that smoking should not be allowed in restaurants is fairly high across Alaska, there were differences by geographic location in 2013.
- Adults in Southwest Alaska are significantly more likely to agree that smoking should not be allowed in restaurants than those in any other region. Adults in Anchorage/MatSu were also significantly more likely to support smokefree restaurants than adults in any other region except Southwest Alaska.
- Adults in Anchorage Municipality are more likely than those in Fairbanks North Star Borough to agree that smoking should not be allowed in restaurants. More than 8 in 10 Anchorage residents (84.9%) support smokefree restaurants, compared to 7 in 10 Fairbanks North Star residents (71.8%).
- In the Municipality of Anchorage, where smoking is not allowed in any restaurants or workplaces, 95% of adults reported that they go out to bars and similar establishments just as much or more often than they did when smoking was allowed in those places. Among smokers, 84% reported going as often or more often.

V. Alaska Tobacco Prevention and Control Program

The State of Alaska Tobacco Prevention and Control Program (TPCP) is located within the Department of Health and Social Services, Division of Public Health, in the Section of Chronic Disease Prevention and Health Promotion (CDPHP). The work of the TPCP is complemented by initiatives undertaken by many other organizations, including non-profits, tribal health organizations, state and local governments, schools, community groups, and the Alaska Tobacco Control Alliance (ATCA), the statewide tobacco prevention and control coalition.

The Alaska TPCP follows the model outlined in *Best Practices for Comprehensive Tobacco Prevention and Control Programs*, a CDC document that describes strategies shown to reduce tobacco use when employed in a sustained and comprehensive manner.⁸ The model, drawing on the tobacco prevention and control literature and outcomes in states across the country, has four primary goals, which are:

1. Prevent the initiation of tobacco use by young people
2. Promote tobacco cessation among adults and young people
3. Eliminate exposure to secondhand smoke
4. Identify and eliminate tobacco-related disparities in specific populations

Work to achieve the four goals is accomplished through work in five overarching categories, including: 1) State and Community Interventions, 2) Health Communications, 3) Cessation Interventions, 4) Surveillance and Evaluation, and 5) Administration and Management. A description of each category and TPCP activities in each is given below.

1) State and Community Interventions

The State and Community Interventions component focuses on building infrastructure and implementing programming at the state and local level, including efforts to reduce tobacco-related disparities.

Statewide Programs

Statewide programs are designed to provide resources and information that support coordinated and effective tobacco control activities in a state. The Alaska TPCP currently has the following statewide programs:

- Technical assistance and training to community programs on action planning, coalition development, local policy change, and media advocacy
- Support, training, and development for the statewide tobacco coalition (ATCA)
- Implementation of a statewide strategic plan in conjunction with ATCA

⁸ Centers for Disease Control and Prevention. *Best Practices for Comprehensive Tobacco Control Programs-2014*. Atlanta, GA: 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; 2014.

Community Programs

Community programs are designed to reduce secondhand smoke (SHS) exposure and promote individual behavior change by altering the way tobacco is promoted, sold, and used. Community programs also work to change social norms around tobacco use by influencing tobacco-related knowledge, attitudes, and practices.

The Alaska TPCP provides grants to local organizations for staff, operating expenses, resource materials, education, training, and public education. As of FY14, the TPCP has been implementing a regional funding model designed to support comprehensive tobacco prevention and control efforts at the local level. The TPCP funds 12 lead organizations across the 6 Public Health/Labor Market Regions in the state and 3 organizations working at a statewide level. The lead agencies have subcontracted with an additional 15 organizations.

Regional and statewide grantees provide education around the effects of tobacco use and SHS exposure and promote evidence-based strategies that discourage youth initiation, provide support for tobacco users to quit, and protect residents from SHS exposure. Grantees also act as a resource to community leaders and organizations interested in reducing the impact of tobacco use within their communities.

Tobacco-Related Disparities

Tobacco-related disparities have been defined as “differences in patterns, prevention, and treatment in tobacco use, differences in the risk, incidence, morbidity, mortality, and burden of tobacco-related illness that exist among specific population groups in the United States, and related differences in capacity and infrastructure, access to resources, and environmental tobacco smoke exposure.”⁹ The CDC recommends that state program plans include strategies to identify and eliminate tobacco-related disparities.

Regional and statewide grantees have identified tobacco-related disparities in their service areas and incorporate efforts to eliminate those disparities in their workplans. In addition to focused local efforts, the TPCP has a number of statewide initiatives designed to identify and reduce tobacco-related disparities.

In 2006 Alaska was chosen as one of 11 states funded by the CDC to participate in a strategic planning process around disparities. The TPCP convened a planning team, the Leadership for Eliminating Alaskan Disparities (LEAD) workgroup, which published a strategic plan to eliminate disparities in tobacco use due to race, region of residence, or socioeconomic status.

The TPCP created a position to oversee the disparities component of the program in 2008 and hired a contractor to revise and update the disparities plan in March 2010. An updated plan was published in 2011 that included detailed strategies and action steps for

⁹ Fagan P, King G, Lawrence D, Petrucci SA, Robinson RG, Banks D, et al. Eliminating tobacco-related health disparities: directions for future research. *American Journal of Public Health* 2004; 94:211-217.
Alaska Tobacco Facts 2015

each of the program goals among priority populations. The priority populations include Alaska Native adults, adults of low socioeconomic status, and young adults age 18-29. Workgroups were formed to implement the strategies for each of the priority populations. Grantees and partners across the state continue to work on these strategies. In addition, the TPCP supports tobacco prevention and control efforts with behavioral health clients, other ethnic minorities, and the Lesbian/Gay/Bisexual/Transgender population.

2) Health Communication Interventions

Health communication interventions are an important component of efforts to change the social norms around tobacco use. Effective media messages can build public support for tobacco prevention and control policies, increase knowledge of the harms of tobacco use and the dangers of exposure to secondhand smoke, and contribute to decreases in youth and adult tobacco use rates.

TPCP health communications interventions include a wide range of activities, including paid television, radio, online, and print media. The television, radio, online, and print materials developed by the TPCP are designed to motivate tobacco users to quit and educate Alaskans about the health risks associated with exposure to secondhand smoke. TPCP grantees also receive technical assistance around the development, production, and placement of media that supports their local tobacco prevention and cessation efforts.

3) Cessation Interventions

Programs that assist tobacco users in quitting can produce significant health and economic benefits. Evidence-based clinical practice guidelines outline effective cessation strategies, including brief advice by medical providers to quit using tobacco, FDA-approved pharmacotherapy (e.g., nicotine replacement therapy, NRT), and population-based helplines or quit lines. System changes are critical to the broad based success of cessation interventions.

The TPCP currently funds a statewide, toll-free tobacco quit line that includes the provision of NRT and counseling via the telephone, web, or text message. TPCP grantees also work with local health care organizations to integrate protocols for identifying and treating tobacco use into their clinical practices. A key component of this program is training staff in Alaska's hospitals and clinics to screen patients for tobacco use and exposure to secondhand smoke, advise patients to quit tobacco, and to refer tobacco users to cessation services.

4) Surveillance and Evaluation

Surveillance and evaluation systems are used to monitor progress in reducing tobacco use and to document program accountability. Surveillance efforts focus on regular monitoring of tobacco-related knowledge, attitudes, and behaviors, while evaluation uses data to assess program implementation and effectiveness.

The Alaska TPCP collects tobacco-related data annually through a variety of methods, which are described in detail in Appendix B. Key tobacco indicators are published annually in Alaska Tobacco Facts (this report). In addition, the TPCP routinely conducts specialized data analysis projects, including reports on tobacco use among Alaska Native adults, adults of lower socioeconomic status, smokeless tobacco, and tobacco cessation.

Routine program evaluation efforts include monitoring of grantee progress as well as assessments of specific TPCP program components, including surveys of quit rates and satisfaction among Alaska Tobacco Quit Line clients as well as media recall and recognition surveys.

5) Administration and Management

An effective tobacco control program requires a strong management structure that can oversee the implementation of program components and coordinate efforts with partner agencies. The TPCP administers numerous grants and contracts to implement the activities of the comprehensive program. The TPCP also partners with other state agencies, ATCA, non-profit organizations, the CDC, tribal health organizations, local governments, schools, and community groups. The TPCP is overseen by a full-time Program Manager and supported by a Deputy Manager. Several administrative staff positions in the CDPHP Section also provide some clerical support to the TPCP on an as-needed basis.

Funding for the TPCP Program is provided primarily through the Tobacco Use Education and Cessation Fund (TUECF), which was established in 2001 by the Alaska State Legislature under AS 37.05.580 to provide a source to finance a comprehensive tobacco use prevention, education, and cessation program authorized by AS 44.29.020(A)(15). In 1998 the State of Alaska joined 45 other states in the national multi-state Master Settlement Agreement (MSA) with the tobacco industry. The settlement funds to states are intended to offset the costs of tobacco-related illness by supporting tobacco prevention and cessation programs. Each year, 20 percent of the MSA revenue and a portion of the state cigarette tax revenue are to be placed in the TUECF fund and are available for appropriation to tobacco prevention and control efforts.

The Centers for Disease Control and Prevention (CDC) has issued recommendations on the financial resources needed in each state to counter the aggressive marketing of tobacco products. Since 2000 Alaska's funding appropriations have grown to levels at or near the CDC recommendations, with funds administered by the Alaska TPCP.

VI. Appendix A: Trend Tables

For most tables in this appendix, we present trend estimates overall and by key demographic subgroups. In addition to the estimate, we present the margin of error, represented in the column marked “+/-“, and the total number of respondents (within the subgroup) who answered that question, represented in the column marked “N”. The margin of error is usually defined as the “radius” (or half the width) of a confidence interval for a particular statistic from a survey. When the margin of error is added to or subtracted from the estimate, it shows the range of where the true population estimate is expected to be, at the 95% confidence level. Larger margins of error indicate that we have less confidence that the estimate is exact, whereas smaller margins indicate more precision or confidence that the estimate reflects the true percent of the population. Where the margin of error produces a 95% confidence interval that crosses 0% or 100%, we do not report margin of error, but instead report the confidence interval using a logit transformation, which is calculated to stay within the 0-100% range. Also reported in these tables is the p-value. P-values less than 0.05 indicate that a difference seen between percentages or across years is statistically significant at the 95% confidence level.

Section II. Adult Tobacco Use

Table 1: Annual Per Adult Sales of Cigarettes, By Fiscal Year

Fiscal Year	Alaska	US minus Alaska
1996	128.6	116.7
1997	125.9	115.7
1998	115.2	112.8
1999	102.3	107.5
2000	100.2	103.4
2001	94.0	98.8
2002	91.6	96.2
2003	90.1	89.9
2004	92.0	86.9
2005	88.0	84.4
2006	80.4	80.7
2007	78.0	78.4
2008	67.4	72.8
2009	63.7	68.9
2010	59.1	62.5
2011	58.2	60.5
2012	55.3	58.5
2013	52.6	55.7

Sources: Alaska Department of Revenue, Tax Division FY13 Reports;
Orzechowski & Walker, *The Tax Burden on Tobacco*, 2014 (vol 48).

Table 2: Trends in Cigarette Smoking in Alaska, 1996-2013

Year	All Adults	±	N	Male	±	N	Female	±	N
1996	27.7%	3.4%	1530	30.8%	5.2%	712	24.2%	4.2%	818
1997	26.5%	3.3%	1543	27.2%	4.9%	716	25.8%	4.3%	827
1998	26.1%	2.6%	1986	28.3%	3.8%	922	23.7%	3.4%	1064
1999	27.3%	3.0%	2045	25.3%	3.5%	999	29.5%	4.9%	1046
2000	25.0%	2.7%	2072	26.8%	4.1%	984	23.1%	3.6%	1088
2001	26.2%	2.4%	2866	26.4%	3.6%	1356	25.9%	3.2%	1510
2002	29.4%	2.7%	2690	32.0%	4.1%	1185	26.5%	3.6%	1505
2003	26.2%	2.4%	2657	30.2%	3.6%	1228	21.9%	3.0%	1429
2004	24.3%	1.7%	5094	26.9%	2.6%	2317	21.4%	2.1%	2777
2005	24.8%	1.7%	5722	28.6%	2.6%	2665	20.8%	2.0%	3057
2006	24.0%	1.9%	4219	25.4%	2.9%	1882	22.5%	2.5%	2337
2007	24.4%	2.0%	5068	26.9%	2.9%	2305	21.7%	2.5%	2763
2008	23.8%	2.0%	4915	25.6%	2.9%	2272	21.9%	2.7%	2643
2009	21.5%	2.0%	4722	22.8%	3.1%	2130	20.0%	2.5%	2592
2010	22.2%	2.5%	3209	23.5%	3.9%	1447	20.8%	3.3%	1762
2011	22.6%	1.8%	6076	24.0%	2.5%	2773	21.1%	2.4%	3303
2012	21.0%	1.5%	8240	22.2%	2.2%	3826	19.7%	2.2%	4414
2013	21.9%	1.5%	9041	23.9%	2.2%	4158	19.6%	2.0%	4883
p-value	<0.001			<0.001			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Percentages reported in tables may not always match percentages reported in the graphs, due to differences in rounding.

Table 2: Trends in Cigarette Smoking in Alaska, 1996-2013 (*cont.*)

Year	Alaska Native	±	N	Non-Native	±	N
1996	47.3%	8.5%	317	24.9%	3.6%	1203
1997	41.1%	7.7%	317	24.2%	3.6%	1207
1998	39.8%	6.3%	361	23.8%	2.8%	1604
1999	42.1%	7.1%	417	24.5%	3.3%	1599
2000	42.9%	7.4%	389	22.1%	2.9%	1628
2001	43.4%	6.1%	572	23.0%	2.6%	2213
2002	44.1%	6.9%	544	26.7%	3.0%	2119
2003	45.4%	6.3%	516	23.0%	2.5%	2127
2004	44.0%	4.6%	1004	20.9%	1.8%	4046
2005	40.6%	4.1%	1094	22.0%	1.8%	4565
2006	43.6%	5.3%	788	20.4%	2.0%	3376
2007	40.9%	5.1%	992	21.5%	2.2%	4003
2008	45.9%	5.3%	943	20.2%	2.2%	3909
2009	42.0%	5.7%	844	18.0%	2.0%	3807
2010	39.1%	7.1%	533	19.1%	2.7%	2598
2011	36.4%	4.5%	1049	20.3%	2.0%	4935
2012	37.9%	4.2%	1616	18.1%	1.7%	6509
2013	42.3%	4.5%	1341	18.9%	1.6%	7464
p-value	0.08			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System

Table 2: Trends in Cigarette Smoking in Alaska, 1996-2013 (cont.)

Year	Low SES	±	N	Higher SES	±	N
1996	39.3%	9.8%	197	23.2%	4.3%	832
1997	36.9%	9.7%	201	19.5%	4.0%	809
1998	33.8%	7.5%	287	21.3%	3.5%	1037
1999	32.5%	6.8%	287	21.4%	4.3%	1090
2000	28.1%	7.5%	259	20.3%	3.4%	1101
2001	35.2%	7.0%	353	20.5%	3.2%	1520
2002	44.4%	7.8%	364	21.2%	3.3%	1353
2003	40.3%	7.4%	368	20.2%	3.0%	1371
2004	34.8%	5.0%	708	18.4%	2.0%	2620
2005	39.0%	5.1%	792	18.5%	2.1%	2927
2006	38.1%	6.6%	469	16.1%	2.0%	2244
2007	34.0%	5.7%	572	18.7%	2.4%	2704
2008	35.8%	5.9%	574	17.0%	2.4%	2642
2009	30.1%	5.5%	605	16.1%	2.4%	2429
2010	32.0%	7.3%	405	17.4%	3.3%	1669
2011	38.1%	5.1%	837	14.6%	2.0%	2960
2012	34.4%	4.9%	1092	13.0%	1.8%	3824
2013	38.4%	4.7%	1260	14.0%	1.8%	4289
p-value	0.72			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System

Table 2: Trends in Cigarette Smoking in Alaska, 1996-2013 (*cont.*)

Year	Ages 18-29	±	N	Ages 30-54	±	N	Ages 55+	±	N
1996	27.7%	7.3%	250	29.6%	4.3%	1000	21.4%	8.0%	270
1997	31.6%	7.5%	260	26.8%	4.3%	968	19.2%	6.5%	303
1998	31.8%	5.5%	397	25.7%	3.3%	1219	19.4%	5.6%	360
1999	32.4%	6.2%	370	28.1%	4.2%	1284	18.5%	5.6%	381
2000	31.9%	7.1%	376	25.1%	3.4%	1285	17.0%	5.1%	399
2001	32.5%	5.8%	545	27.5%	3.2%	1703	14.3%	3.8%	584
2002	39.4%	7.0%	459	27.6%	3.3%	1579	22.4%	5.4%	638
2003	29.9%	5.6%	466	27.9%	3.3%	1518	18.3%	3.8%	650
2004	31.0%	4.4%	890	24.7%	2.2%	2875	16.8%	2.8%	1278
2005	30.9%	4.4%	927	26.5%	2.3%	3168	14.9%	2.4%	1578
2006	34.4%	5.6%	607	22.9%	2.3%	2246	16.7%	2.8%	1301
2007	33.1%	5.5%	767	24.7%	2.5%	2706	15.3%	2.7%	1538
2008	31.3%	5.5%	676	24.8%	2.5%	2500	15.2%	2.5%	1684
2009	26.7%	5.5%	581	21.8%	2.7%	2352	15.9%	2.5%	1731
2010	31.7%	7.4%	339	22.0%	3.3%	1532	14.0%	2.7%	1295
2011	27.1%	4.7%	708	24.4%	2.4%	2798	15.9%	2.2%	2490
2012	25.7%	3.7%	1152	23.8%	2.4%	3645	13.2%	2.1%	3342
2013	25.8%	3.7%	1198	24.5%	2.4%	3802	15.1%	2.0%	3951
p-value	0.32			<0.001			<0.01		

Source: Alaska Behavioral Risk Factor Surveillance System

Table 2: Trends in Cigarette Smoking in Alaska, 1998-2013 (cont.)

By Public Health Region

Year	Northern	±	N	South-west	±	N	Gulf Coast	±	N
1998	47%	9.6%	133	34%	7.6%	206	30%	5.4%	415
1999	46%	13.7%	109*	35%	7.7%	228	29%	5.1%	397
2000	47%	11.4%	127	25%	7.0%	218	24%	5.1%	407
2001	45%	7.8%	221	35%	6.5%	315	31%	4.9%	545
2002	55%	10.0%	197	32%	7.1%	275	31%	4.6%	572
2003	45%	9.0%	166	41%	7.3%	257	23%	4.3%	511
2004	41%	6.1%	342	34%	4.8%	535	26%	3.0%	1100
2005	51%	6.1%	331	35%	4.7%	584	21%	2.6%	1223
2006	43%	7.4%	245	43%	6.2%	374	27%	3.5%	868
2007	46%	7.1%	312	33%	5.9%	524	24%	3.7%	1028
2008	51%	6.9%	308	38%	6.3%	491	27%	3.7%	997
2009	45%	8.2%	260	28%	5.9%	418	21%	3.7%	974
2010	47%	10.2%	162	34%	7.8%	297	19%	3.9%	665
2011	45%	8.2%	312	36%	7.1%	505	25%	4.3%	1088
2012	40%	8.5%	482	28%	5.4%	999	18%	3.6%	1116
2013	42%	8.3%	368	32%	6.1%	770	21%	3.1%	1443
p-value	0.27			0.73			<0.001		

Year	Interior	±	N	South-east	±	N	Anchorage/ MatSu	±	N
1998	26%	4.7%	434	24%	4.7%	398	23%	4.4%	403
1999	29%	4.5%	498	27%	5.2%	411	25%	5.3%	407
2000	25%	4.1%	468	26%	5.0%	432	24%	4.7%	424
2001	24%	3.5%	673	27%	4.2%	564	24%	4.1%	552
2002	27%	4.3%	602	26%	4.3%	542	28%	4.8%	509
2003	26%	3.7%	635	24%	4.0%	538	25%	4.1%	553
2004	22%	2.5%	1208	23%	3.2%	860	23%	2.8%	1061
2005	22%	2.7%	1261	21%	2.7%	1140	24%	2.9%	1191
2006	22%	3.1%	978	23%	3.5%	810	21%	3.2%	951
2007	27%	3.7%	1139	23%	3.3%	1038	22%	3.3%	1027
2008	22%	3.3%	1165	25%	3.9%	919	21%	3.3%	1034
2009	26%	3.5%	1131	21%	3.5%	957	18%	3.3%	994
2010	21%	4.3%	770	26%	5.3%	676	20%	4.5%	645
2011	22%	3.7%	1284	23%	4.5%	1123	20%	2.5%	1764
2012	23%	3.7%	1734	20%	4.0%	1165	19%	2.3%	2744
2013	25%	3.0%	2001	20%	3.0%	1499	20%	2.4%	2960
p-value	0.02			<0.01			<0.001		

Table 2: Trends in Cigarette Smoking in Alaska, 1998-2013 (cont.)

By Selected Boroughs

Year	Fairbanks North Star	±	N	Anchorage	±	N	MatSu	±	N
1998	27%	5.1%	362	22%	4.8%	327	*	*	76
1999	27%	4.9%	392	23%	4.9%	341	*	*	66
2000	23%	4.5%	383	22%	5.2%	345	*	*	79
2001	23%	3.9%	551	22%	4.6%	437	*	*	115
2002	25%	4.5%	495	26%	5.2%	415	*	*	94
2003	23%	4.0%	523	24%	4.6%	430	28%	8.9%	123
2004	21%	2.8%	979	22%	3.3%	817	25%	5.9%	244
2005	21%	3.0%	1022	23%	3.2%	918	31%	6.5%	273
2006	21%	3.4%	797	18%	3.2%	739	32%	8.3%	212
2007	26%	3.9%	921	20%	3.9%	759	29%	7.1%	268
2008	20%	3.7%	932	18%	3.5%	754	27%	6.9%	280
2009	26%	3.9%	928	16%	3.7%	741	26%	6.9%	252
2010	18%	4.1%	625	17%	4.9%	489	29%	9.6%	156
2011	20%	4.3%	1010	19%	3.1%	1063	23%	4.3%	701
2012	21%	4.1%	1176	19%	2.7%	1614	21%	4.6%	1130
2013	23%	3.3%	1572	19%	2.9%	1703	21%	3.8%	1257
p- value	0.01			<0.001			0.01		

Source: Alaska Behavioral Risk Factor Surveillance System

* Interpret with caution. Asterisk indicates estimate with high coefficient of variation or small sample size, which affects the precision of the estimate.

Note that estimates for MatSu are only reported from 2003 to present.

Table 3: Trends in the Quit Ratio in Alaska: Percent of Former Smokers Among Adults age 25 or older Who Were Ever Smokers, 1996-2013

Year	All Adults	±	N	Male	±	N	Female	±	N
1996	50.8%	5.4%	801	50.4%	7.5%	401	51.3%	7.6%	400
1997	52.7%	5.4%	754	56.0%	7.4%	388	48.3%	7.9%	366
1998	51.4%	4.4%	938	52.6%	6.1%	485	49.8%	6.3%	453
1999	51.4%	4.9%	1033	55.4%	6.2%	523	47.1%	7.5%	510
2000	55.4%	4.5%	987	55.7%	6.1%	499	55.1%	6.8%	488
2001	54.1%	4.0%	1443	57.3%	5.7%	745	49.9%	5.2%	698
2002	50.5%	4.2%	1343	50.5%	5.7%	668	50.4%	6.2%	675
2003	51.7%	3.9%	1319	50.5%	5.4%	677	53.4%	5.7%	642
2004	53.2%	2.8%	2442	53.2%	4.0%	1244	53.3%	4.0%	1198
2005	53.6%	2.7%	2769	51.4%	3.9%	1423	56.4%	3.6%	1346
2006	57.7%	2.9%	2136	60.1%	4.1%	1073	54.7%	4.2%	1063
2007	55.5%	3.1%	2460	54.6%	4.3%	1237	56.7%	4.3%	1223
2008	56.8%	2.9%	2503	57.8%	4.1%	1290	55.5%	4.3%	1213
2009	59.0%	3.3%	2324	59.7%	4.7%	1158	58.1%	4.3%	1166
2010	56.8%	4.1%	1551	56.0%	6.1%	765	57.6%	5.7%	786
2011	57.6%	2.7%	2974	58.6%	3.9%	1511	56.1%	4.1%	1463
2012	59.7%	2.8%	3774	60.5%	3.8%	1927	58.7%	4.2%	1847
2013	58.1%	2.6%	4216	58.5%	3.5%	2130	57.5%	3.8%	2086
p-value	<0.001			<0.01			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Percentages reported in tables may not always match percentages reported in the graphs, due to differences in rounding.

Table 3: Trends in the Quit Ratio in Alaska: Percent of Former Smokers Among Adults age 25 or older Who Were Ever Smokers, 1996-2013 (cont.)

Year	Alaska Native	±	N	Non-Native	±	N
1996	34.4%	11.0%	187	53.5%	6.0%	608
1997	43.7%	10.8%	180	54.7%	6.2%	563
1998	40.2%	8.7%	203	53.9%	5.1%	726
1999	40.5%	9.2%	260	54.1%	5.7%	758
2000	42.7%	10.5%	228	58.5%	5.0%	728
2001	42.1%	8.1%	351	57.0%	4.5%	1043
2002	40.7%	8.6%	335	52.6%	4.7%	991
2003	41.6%	8.0%	328	53.9%	4.5%	984
2004	38.3%	5.5%	600	56.8%	3.2%	1820
2005	42.3%	5.8%	649	56.3%	3.1%	2087
2006	39.1%	6.0%	489	62.1%	3.4%	1620
2007	45.7%	6.1%	606	57.4%	3.5%	1820
2008	38.8%	5.9%	613	60.6%	3.5%	1853
2009	42.6%	6.3%	532	62.7%	3.7%	1753
2010	43.5%	8.8%	340	60.0%	4.7%	1172
2011	46.1%	6.3%	639	60.3%	3.1%	2294
2012	46.3%	6.0%	908	62.5%	3.2%	2810
2013	41.7%	5.8%	789	61.5%	2.9%	3321
p-value	0.18			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System

Table 3: Trends in the Quit Ratio in Alaska: Percent of Former Smokers Among Adults age 25 or older Who Were Ever Smokers, 1996-2013 (cont.)

Year	Low SES	±	N	Higher SES	±	N
1996	32.8%*	12.2%	116*	56.8%	7.0%	443
1997	41.6%*	12.8%	124*	56.2%	7.5%	379
1998	37.9%	10.3%	164	54.3%	6.3%	491
1999	40.2%	11.3%	169	56.1%	7.2%	534
2000	52.5%	12.1%	149	56.7%	6.1%	514
2001	34.9%	8.6%	214	59.0%	5.4%	764
2002	27.5%	7.8%	224	58.0%	5.7%	648
2003	33.9%	8.6%	216	57.5%	5.4%	650
2004	41.7%	6.9%	425	57.9%	3.9%	1190
2005	37.5%	6.2%	485	58.9%	3.8%	1329
2006	40.4%	7.8%	308	64.5%	4.0%	1059
2007	44.2%	7.6%	344	58.8%	4.3%	1213
2008	40.0%	7.4%	366	63.4%	4.3%	1186
2009	48.8%	8.2%	350	63.8%	4.7%	1076
2010	43.3%	9.8%	236	60.4%	6.1%	710
2011	36.4%	6.3%	519	67.8%	3.9%	1288
2012	39.3%	6.6%	614	69.0%	3.9%	1568
2013	36.5%	5.5%	751	67.3%	3.6%	1825
p-value	0.39			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System

* Interpret with caution. Asterisk indicates estimate with high coefficient of variation or small sample size, which affects the precision of the estimate.

Table 3: Trends in the Quit Ratio in Alaska: Percent of Former Smokers Among Adults age 25 or older Who Were Ever Smokers, 1996-2013 (cont.)

Year	Ages 18-29	±	N	Ages 30-54	±	N	Ages 55+	±	N
1996	38.5%*	15.9%	64*	47.6%	6.4%	564	66.2%	11.8%	169
1997	43.6%*	18.8%	52*	48.0%	6.6%	505	68.5%	9.8%	188
1998	36.3%	12.2%	92	48.4%	5.4%	624	67.2%	8.8%	214
1999	41.1%	13.0%	96	44.9%	6.0%	691	71.2%	8.6%	238
2000	42.2%	14.6%	87	50.5%	5.7%	662	72.4%	7.9%	232
2001	46.3%	14.3%	127	47.2%	4.8%	940	75.2%	6.1%	352
2002	32.1%	13.2%	106	49.3%	5.1%	854	61.6%	7.9%	374
2003	43.7%	12.5%	128	47.1%	5.1%	811	66.7%	6.3%	367
2004	32.3%	8.6%	234	49.4%	3.7%	1481	69.2%	4.7%	697
2005	36.9%	8.0%	242	48.1%	3.6%	1606	72.1%	4.2%	898
2006	38.0%	10.5%	159	52.9%	4.0%	1160	72.3%	4.4%	780
2007	37.1%	10.0%	210	50.4%	4.1%	1354	72.5%	4.7%	868
2008	37.5%	9.4%	228	50.9%	4.3%	1256	73.9%	3.9%	991
2009	42.0%	12.5%	157	53.5%	4.7%	1134	73.3%	3.9%	1005
2010	24.8%*	11.6%	101*	54.8%	5.5%	738	73.4%	4.9%	692
2011	38.7%	10.6%	174	51.9%	3.9%	1378	71.7%	3.5%	1381
2012	46.6%	9.7%	249	51.8%	4.1%	1724	74.5%	3.7%	1762
2013	41.5%	9.1%	267	50.4%	3.8%	1809	73.1%	3.3%	2140
p-value	0.62			<0.01			0.02		

Source: Alaska Behavioral Risk Factor Surveillance System

* Interpret with caution. Asterisk indicates estimate with high coefficient of variation or small sample size, which affects the precision of the estimate.

Table 3: Trends in the Quit Ratio in Alaska: Percent of Former Smokers Among Adults age 25 or older Who Were Ever Smokers, 1998-2013 (cont.)

By Public Health Region

Year	Northern	±	N	South-west	±	N	Gulf Coast	±	N
1998	35%	12.2%	77	42%	9.9%	118	45%	7.6%	228
1999	39%*	17.6%	68*	38%	10.6%	130	46%	7.5%	224
2000	35%	12.9%	78	52%	13.4%	110*	52%	9.0%	198
2001	38%	9.4%	134	43%	9.2%	187	47%	7.0%	314
2002	23%	8.6%	119	41%	9.3%	148	45%	6.4%	316
2003	34%	9.8%	104	35%	8.5%	162	54%	7.0%	267
2004	40%	7.8%	199	41%	6.4%	312	47%	4.8%	553
2005	30%	7.4%	190	38%	6.0%	329	58%	4.3%	647
2006	43%	9.2%	148	33%	6.9%	228	52%	5.2%	489
2007	34%	8.6%	169	47%	7.6%	271	57%	5.7%	509
2008	31%	7.8%	182	44%	8.2%	261	55%	4.9%	522
2009	29%	8.4%	144	56%	8.6%	209	62%	5.3%	491
2010	33%	6.7%	100	46%	10.0%	159	59%	6.9%	301
2011	31%	8.8%	165	41%	9.0%	270	51%	6.3%	539
2012	43%	12.0%	256	52%	7.6%	460	65%	6.5%	529
2013	41%	11.2%	208	48%	8.2%	388	63%	2.9%	729
p-value	0.60			0.96			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System

* Interpret with caution. Asterisk indicates estimate with high coefficient of variation or small sample size, which affects the precision of the estimate.

Table 3: Trends in the Quit Ratio in Alaska: Percent of Former Smokers Among Adults age 25 or older Who Were Ever Smokers, 1998-2013 (cont.)

By Public Health Region

Year	Interior	±	N	South-east	±	N	Anchorage/ MatSu	±	N
1998	55%	8.0%	186	50%	7.9%	191	52%	7.9%	181
1999	50%	6.9%	244	51%	7.6%	224	54%	9.2%	180
2000	51%	7.3%	222	51%	7.6%	222	59%	7.7%	199
2001	61%	6.1%	320	48%	6.3%	306	56%	7.1%	261
2002	53%	7.1%	263	55%	6.5%	309	52%	7.3%	245
2003	49%	6.3%	293	53%	6.5%	283	53%	6.9%	262
2004	52%	4.7%	545	57%	5.0%	463	54%	5.0%	476
2005	55%	4.7%	547	59%	4.4%	611	53%	4.7%	546
2006	57%	5.1%	469	55%	5.5%	436	62%	5.2%	443
2007	51%	5.1%	525	59%	5.1%	525	58%	5.5%	461
2008	59%	5.3%	564	57%	5.5%	490	60%	5.5%	483
2009	53%	5.3%	554	65%	5.1%	499	62%	6.1%	427
2010	62%	6.5%	371	54%	6.7%	329	59%	7.4%	291
2011	60%	5.9%	612	58%	7.1%	559	62%	4.5%	829
2012	58%	6.3%	816	64%	6.7%	544	60%	4.5%	1169
2013	55%	4.6%	942	60%	5.4%	669	60%	4.4%	1280
p-value	0.04			<0.01			<0.01		

Source: Alaska Behavioral Risk Factor Surveillance System

Table 3: Trends in the Quit Ratio in Alaska: Percent of Former Smokers Among Adults age 25 or older Who Were Ever Smokers, 1998-2013 (cont.)

By Selected Boroughs

Year	Fairbanks North Star	±	N	Anchorage	±	N	MatSu	±	N
1998	49%	7.7%	199	51%	9.0%	138	*	*	44*
1999	47%	7.5%	202	55%	9.2%	149	*	*	33*
2000	51%	7.7%	188	60%	8.7%	158	*	*	47*
2001	55%	6.6%	277	59%	8.1%	203	*	*	61
2002	48%	7.3%	238	56%	8.2%	191	*	*	58
2003	49%	7.0%	239	55%	7.9%	199	45%	13.2%	64
2004	53%	5.1%	454	55%	5.9%	351	50%	9.6%	130
2005	52%	5.3%	461	54%	5.5%	399	49%	8.9%	160
2006	55%	5.8%	392	64%	5.9%	334	45%	10.5%	121
2007	52%	5.9%	405	59%	6.9%	322	57%	9.6%	139
2008	61%	5.7%	430	60%	6.5%	340	61%	9.8%	143
2009	51%	5.9%	435	65%	7.3%	308	53%	11.0%	119
2010	65%	7.1%	283	61%	9.2%	207	51%*	12.7%	84*
2011	61%	6.9%	448	63%	5.5%	468	58%	6.9%	361
2012	58%	7.5%	516	61%	5.4%	652	59%	8.3%	517
2013	55%	5.2%	712	60%	5.5%	681	61%	6.5%	591
p-value	0.10			0.02			0.04		

Source: Alaska Behavioral Risk Factor Surveillance System

* Interpret with caution. Asterisk indicates estimate with high coefficient of variation or small sample size, which affects the precision of the estimate.

Note that estimates for MatSu are only reported from 2003 to present.

Table 4: Trends in Smokeless Tobacco Use in Alaska, 1996-2013

Year	All Adults	±	N	Male	±	N	Female	±	N
1996	4.1%	1.3%	1506	6.8%	2.4%	699	1.1%	0.5%	807
1997	5.6%	1.7%	1543	9.2%	3.1%	715	1.6%	1.0%	828
1998	5.4%	1.4%	1989	8.6%	2.5%	924	1.9%	0.9%	1065
1999	5.4%	1.3%	2050	8.7%	2.3%	1001	1.7%	0.9%	1049
2000	5.7%	1.6%	2079	9.5%	2.9%	985	1.7%	0.6%	1094
2001	6.1%	1.3%	2873	10.2%	2.5%	1357	1.8%	0.7%	1516
2002	6.6%	1.4%	2692	11.2%	2.6%	1186	1.8%	0.6%	1506
2003	N/A			N/A			N/A		
2004	4.4%	1.2%	2462	7.5%	2.2%	1103	1.0%	0.7%	1359
2005	5.0%	0.9%	5343	8.6%	1.6%	2489	1.0%	0.3%	2854
2006	4.7%	0.9%	4124	7.8%	1.7%	1835	1.4%	0.5%	2289
2007	5.2%	1.0%	4939	9.0%	1.8%	2244	1.2%	0.4%	2695
2008	5.2%	1.0%	4772	8.6%	1.8%	2190	1.6%	0.6%	2582
2009	4.8%	1.0%	4560	8.4%	1.8%	2037	0.9%	0.4%	2523
2010	5.2%	1.2%	2901	8.2%	2.4%	1295	1.9%	0.8%	1606
2011	5.9%	1.0%	6119	9.7%	1.6%	2800	1.7%	0.8%	3319
2012	5.6%	0.8%	8302	9.2%	1.6%	3854	1.6%	0.6%	4448
2013	5.3%	0.8%	9071	8.7%	1.3%	4171	1.6%	0.6%	4900
p-value	0.94			0.99			0.97		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Questions about SLT use were not asked in 2003.

Note also: Percentages reported in tables may not always match percentages reported in the graphs, due to differences in rounding.

Table 4: Trends in Smokeless Tobacco Use in Alaska, 1996-2013
(cont.)

Year	Alaska Native	±	N	Non-Native	±	N
1995-1997	11.5%	2.6%	928	4.6%	1.0%	3604
1996-1998	12.5%	2.8%	988	3.9%	0.9%	4000
1997-1999	12.8%	2.7%	1101	4.3%	0.9%	4411
1998-2000	13.5%	2.5%	1176	4.3%	0.9%	4836
1999-2001	14.6%	2.6%	1389	4.3%	0.8%	5446
2000-2002	14.3%	2.5%	1516	4.9%	0.9%	5964
2001-2002	14.6%	3.1%	1123	5.0%	1.0%	4333
2003	N/A			N/A		
2002&2004	11.0%	3.1%	1008	4.6%	0.9%	4094
2004-05	10.6%	3.0%	1486	3.7%	0.7%	6233
2005-06	10.6%	1.8%	1783	3.8%	0.7%	7570
2006-07	11.9%	2.2%	1696	3.8%	0.8%	7241
2007-08	12.6%	2.2%	1830	4.0%	0.8%	7750
2008-09	11.5%	2.0%	1693	3.9%	0.8%	7514
2009-10	13.9%	2.7%	1259	3.5%	0.8%	6061
2011	12.4%	2.7%	1061	4.8%	1.0%	4970
2012	14.8%	3.3%	1639	4.1%	0.8%	6547
2013	14.8%	3.0%	1348	4.0%	0.8%	7485
p-value	0.47			0.51		

Source: Alaska Behavioral Risk Factor Surveillance System
Note: Questions about SLT use were not asked in 2003.

Table 4: Trends in Smokeless Tobacco Use in Alaska, 1996-2013 (cont.)

Year	Low SES	±	N	Higher SES	±	N
1995-1997	3.9%	2.4%	574	4.3%	1.2%	2483
1996-1998	2.6%	1.8%	680	3.9%	1.1%	2671
1997-1999	2.8%	1.8%	776	4.1%	1.1%	2937
1998-2000	1.8%	1.0%	834	4.9%	1.2%	3230
1999-2001	2.0%	1.0%	900	5.2%	1.2%	3713
2000-2002	3.8%	2.1%	975	5.5%	1.2%	3975
2001-2002	5.5%	3.2%	716	5.3%	1.3%	2873
2003	N/A			N/A		
2002&2004	5.1%	3.1%	701	4.4%	1.1%	2641
2004-05	4.0%	2.0%	1065	3.2%	0.7%	4038
2005-06	4.6%	2.2%	1189	3.8%	0.8%	4961
2006-07	3.6%	1.8%	1020	4.3%	0.8%	4878
2007-08	3.1%	1.6%	1119	4.8%	1.0%	5236
2008-09	4.4%	2.2%	1143	4.5%	1.0%	4937
2009-10	4.1%	2.2%	940	3.6%	0.8%	3884
2011	4.2%	1.8%	841	5.1%	1.4%	2982
2012	2.5%	1.2%	1095	4.5%	1.0%	3846
2013	2.4%	1.0%	1262	4.8%	1.2%	4298
p-value	0.12			0.74		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Questions about SLT use were not asked in 2003.

Table 4: Trends in Smokeless Tobacco Use in Alaska, 1996-2013
(*cont.*)

Year	Ages 18-29	±	N	Ages 30-54	±	N	Ages 55+	±	N
1996	5.0%	3.0%	246	4.0%	1.7%	982	3.2%	2.2%	269
1997	8.0%	4.6%	260	4.1%	1.8%	970	6.7%	4.4%	302
1998	8.8%	3.5%	397	4.6%	1.8%	1220	2.7%	1.8%	362
1999	6.4%	3.1%	372	5.7%	1.7%	1286	3.1%	2.0%	381
2000	6.7%	2.8%	375	6.6%	2.4%	1288	2.2%	1.3%	404
2001	7.0%	2.5%	546	7.3%	2.1%	1706	2.1%	1.3%	587
2002	9.0%	4.0%	460	7.5%	1.9%	1579	1.3%	0.7%	639
2003	N/A			N/A			N/A		
2004	6.6%	3.2%	430	4.8%	1.7%	1413	1.6%	1.3%	590
2005	7.2%	2.5%	866	5.2%	1.2%	2949	1.7%	0.7%	1482
2006	6.9%	3.0%	587	5.1%	1.1%	2197	1.7%	0.6%	1281
2007	6.7%	2.5%	744	5.7%	1.4%	2647	2.9%	1.2%	1495
2008	5.3%	2.2%	647	6.6%	1.6%	2448	2.4%	0.8%	1631
2008-09	5.0%	1.4%	1208	6.2%	1.2%	4713	2.7%	0.8%	3311
2009-10	5.9%	2.2%	865	5.6%	1.2%	3640	3.1%	0.8%	2862
2011	8.1%	2.5%	713	6.9%	1.4%	2811	2.3%	0.8%	2516
2012	7.0%	2.2%	1160	6.4%	1.2%	3672	3.1%	1.2%	3366
2013	7.2%	1.9%	1196	6.5%	1.2%	3812	2.3%	0.8%	3971
p-value	0.65			0.04			0.25		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Questions about SLT use were not asked in 2003.

Table 4: Trends in Smokeless Tobacco Use in Alaska, 1996-2013 (cont.)

Year	Smokers	±	N	Former Smokers	±	N	Never Smokers	±	N
1996	3.6%	2.2%	443	6.2%	3.6%	395	3.2%	1.3%	663
1997	1.2%	0.8%	403	8.1%	4.3%	414	6.7%	2.8%	724
1998	7.1%	2.7%	549	6.0%	3.1%	505	4.0%	1.9%	932
1999	3.2%	1.5%	592	8.4%	3.2%	532	5.0%	1.9%	921
2000	4.9%	2.6%	536	4.6%	1.9%	542	6.9%	2.8%	990
2001	7.0%	3.2%	819	8.2%	3.2%	779	4.4%	1.3%	1266
2002	6.6%	3.0%	753	8.6%	3.2%	714	5.6%	1.7%	1221
2003	N/A			N/A			N/A		
2004	4.1%	2.3%	611	4.6%	2.0%	642	4.3%	1.8%	1194
2005	5.2%	1.9%	1312	6.3%	2.0%	1461	4.1%	1.1%	2540
2006	7.0%	2.9%	1000	5.3%	1.5%	1206	3.2%	1.0%	1896
2007	7.6%	2.7%	1062	6.6%	2.2%	1440	3.5%	1.0%	2395
2008	5.1%	2.0%	1057	6.1%	1.8%	1449	4.5%	1.4%	2238
2009	6.3%	2.5%	897	6.2%	2.2%	1427	3.4%	1.0%	2194
2010	8.2%	4.1%	563	5.9%	2.0%	858	3.5%	1.2%	1457
2011	8.1%	2.4%	1264	7.6%	2.2%	1842	4.0%	1.2%	2965
2012	7.0%	2.0%	1624	7.3%	1.8%	2367	4.1%	1.0%	4236
2013	7.0%	2.1%	1724	6.8%	1.5%	2732	3.8%	0.9%	4562
p-value	<0.001			0.67			0.01		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Questions about SLT use were not asked in 2003.

**Table 4: Trends in Smokeless Tobacco Use in Alaska, 1998-2013
By Public Health Region**

Year	Northern	±	N
1997-99	7.7%	4.3%	370
1998-2000	5.6%	2.7%	372
1999-2001	6.2%	2.7%	459
2000-2002	7.0%	2.7%	545
2001-2002	7.7%	3.3%	418
2003	N/A		
2002&2004	7.0%	3.5%	356
2004-05	6.5%	3.3%	466
2005-06	6.1%	2.5%	542
2006-07	6.7%	2.7%	528
2007-08	7.2%	2.9%	583
2008-09	7.9%	3.1%	541
2009-10	7.2%	4.1%	384
2011	9.1%	4.1%	313
2012	13.4%	7.1%-24.1%	486
2013	7.1%	3.5%	367
p-value	0.13		

Year	South-west	±	N	Gulf Coast	±	N
1998	20.3%	6.7%	207	3.2%	2.2%	415
1999	19.9%	6.4%	228	3.4%	2.0%	399
2000	28.2%	7.4%	220	4.2%	2.4%	408
2001	25.8%	6.5%	318	8.2%	3.4%	547
2002	23.0%	6.2%	278	7.5%	3.2%	572
2003	N/A			N/A		
2004	16.9%	5.4%	250	4.9%	2.6%	515
2005	19.7%	4.1%	551	4.1%	1.3%	1150
2006	22.3%	5.4%	361	5.8%	2.0%	855
2007	25.7%	5.9%	503	5.9%	2.0%	1003
2008	27.0%	5.5%	475	4.3%	1.8%	968
2008-09	21.4%	3.7%	862	4.5%	1.2%	1906
2009-10	23.7%	5.1%	645	5.4%	1.6%	1545
2011	21.5%	4.7%	512	9.8%	3.9%	1094
2012	21.1%	4.3%	1017	4.3%	2.0%	1123
2013	24.5%	5.5%	775	4.7%	1.4%	1445
p-value	0.92			0.37		

Source: Alaska Behavioral Risk Factor Surveillance System
Note: Questions about SLT use were not asked in 2003.

Table 4: Trends in Smokeless Tobacco Use in Alaska, 1998-2013
By Public Health Region

Year	Interior	±	N	South-east	±	N	Anchorage/ MatSu	±	N
1998	6.0%	2.5%	435	4.6%	2.5%	398	4.1%	2.4%	403
1999	5.2%	2.5%	498	5.9%	2.8%	412	4.3%	2.1%	407
2000	4.2%	1.8%	468	4.7%	2.5%	432	4.5%	2.7%	428
2001	5.6%	2.0%	676	3.1%	1.7%	563	4.2%	2.2%	552
2002	5.7%	2.2%	602	4.8%	2.3%	542	5.5%	2.4%	508
2003	N/A			N/A			N/A		
2004	4.5%	2.0%	580	4.1%	2.5%	421	2.8%	1.9%	540
2005	5.2%	1.6%	1183	3.6%	1.4%	1055	3.8%	1.5%	1103
2006	4.6%	1.8%	955	4.4%	1.6%	794	2.7%	1.4%	930
2007	4.5%	1.6%	1112	4.2%	1.4%	1011	3.6%	1.6%	1017
2008	5.3%	1.6%	1134	2.5%	1.0%	892	3.7%	1.6%	1012
2008-09	6.0%	1.4%	2224	3.4%	1.0%	1828	3.4%	1.0%	1969
2009-10	6.2%	1.8%	1785	3.5%	1.2%	1555	2.8%	1.2%	1546
2011	6.9%	2.5%	1294	4.2%	2.0%	1135	3.6%	1.2%	1773
2012	5.9%	2.2%	1745	3.7%	1.6%	1176	4.2%	1.2%	2755
2013	5.4%	1.5%	2010	2.7%	0.9%	1504	4.1%	1.2%	2970
p-value	0.38			0.03			0.19		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Questions about SLT use were not asked in 2003.

Table 4: Trends in Smokeless Tobacco Use in Alaska, 1998-2013 (*cont.*)
By Selected Boroughs

Year	Fairbanks North Star	±	N
1998	5.5%	2.5%	387
1999	5.1%	2.0%	392
2000	4.0%	2.0%	383
2001	4.6%	2.0%	552
2002	5.9%	2.5%	495
2003	N/A		
2004	4.4%	2.2%	481
2005	4.9%	1.8%	954
2006	4.2%	1.8%	778
2007	4.6%	1.8%	901
2008	4.5%	1.6%	906
2008-09	5.3%	1.4%	1807
2009-10	5.6%	1.0%	1461
2011	6.4%	2.5%	1016
2012	6.0%	2.4%	1182
2013	4.8%	1.5%	1580
p-value	0.48		

Source: Alaska Behavioral Risk Factor Surveillance System
Note: Questions about SLT use were not asked in 2003.

Table 4: Trends in Smokeless Tobacco Use in Alaska, 1998-2013 (cont.)

Year	Anchorage	±	N	MatSu	±	N
1997-99	4.4%	1.6%	904	4.2%	2.9%	213
1998-2000	4.2%	1.5%	1017	4.6%	3.2%	221
1999-2001	4.3%	1.5%	1127	4.4%	2.9%	260
2000-2002	4.4%	1.5%	1200	6.1%	3.6%	288
2001-2002	4.4%	1.7%	851	6.8%	4.7%	209
2003	N/A			N/A		
2002&2004	3.5%	1.6%	828	6.4%	4.2%	220
2004-05	2.9%	1.4%	1259	4.3%	2.6%	384
2005-06	2.6%	1.0%	1564	5.0%	2.7%	469
2006-07	2.4%	1.0%	1472	5.6%	2.9%	475
2007-08	3.0%	1.2%	1491	5.4%	2.7%	538
2008-09	2.7%	1.0%	1449	5.0%	2.7%	520
2009-10	2.0%	1.0%	1160	5.3%	3.7%	386
2011	3.0%	1.4%	1069	5.3%	2.5%	704
2012	3.5%	1.2%	1620	6.6%	2.9%	1135
2013	3.8%	1.3%	1708	5.1%	2.3%	1262
p-value	0.06			0.84		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Questions about SLT use were not asked in 2003.

* Interpret with caution. Asterisk next to number indicates estimate with high coefficient of variation or sample size inadequate for very uncommon event. Note that because estimates for some groups and regions are reported using combined year rolling averages, the N (numerator) is higher and the estimates are more stable.

Table 5: Trends in Maternal Smoking in the Last Three Months of Pregnancy, Alaska, 1996-2012

Year	All Mothers	±	N	Alaska Native	±	N	Non-Native	±	N
1996	21.6%	2.5%	1264	33%	3.8%	512	18%	3.1%	752
1997	17.6%	2.2%	1331	29%	3.6%	542	14%	2.7%	789
1998	18.3%	2.2%	1348	33%	3.4%	588	14%	2.7%	760
1999	16.7%	2.1%	1400	29%	3.3%	618	13%	2.5%	782
2000	16.8%	2.1%	1371	29%	3.3%	618	13%	2.5%	753
2001	14.7%	1.9%	1417	28%	3.1%	640	10%	2.3%	777
2002	17.7%	2.1%	1488	29%	3.1%	658	14%	2.5%	830
2003	16.8%	2.1%	1506	26%	2.9%	677	14%	2.6%	829
2004	17.3%	2.4%	1241	31%	3.9%	514	13%	3.0%	727
2005	16.1%	2.3%	1251	28%	3.7%	523	12%	2.8%	728
2006	14.8%	2.2%	1221	28%	3.9%	476	11%	2.6%	745
2007	15.4%	2.2%	1331	31%	3.8%	517	10%	2.6%	814
2008	15.1%	2.3%	1206	30%	3.9%	501	10%	2.8%	705
2009	15.3%	2.2%	1152	31%	4.4%	427	10%	2.6%	725
2010	16.8%	2.7%	1077	30%	4.4%	399	13%	3.3%	678
2011	13.8%	1.1%	1071	30%	2.3%	392	9%	1.3%	679
2012	13.1%	2.3%	844	27%	4.8%	309	9%	2.6%	535
p-value	<0.001			0.35			<0.001		

Source: Alaska Pregnancy Risk Assessment Monitoring System (PRAMS)

Note: See introductory paragraph of Appendix A for additional information

Note also: Percentages reported in tables may not always match percentages reported in the graphs, due to differences in rounding.

Table 6: Trends in Maternal Smokeless Tobacco Use during Pregnancy, including Chew or Snuff Use, Alaska, 1996-2003

Year	All Mothers	95% CI	N	Alaska Native	95% CI	N	Non-Native	95% CI	N
1996	6.5%	5.6-7.7%	1039	26.7%	22.6-30.8%	410	0.3%	0.1-1.5%	625
1997	5.9%	5.0-6.9%	1364	21.3%	18.3-24.6%	566	1.0%	0.5-2.1%	793
1998	6.5%	5.6-7.7%	1361	22.0%	19.1-25.2%	596	1.6%	0.9-3.0%	758
1999	5.6%	4.8-6.5%	1444	20.4%	17.7-23.4%	630	0.7%	0.3-1.7%	783
2000	5.5%	4.7-6.3%	1460	20.1%	17.3-22.9%	643	0.5%	0.2-1.5%	752
2001	4.7%	4.0-5.5%	1523	17.5%	15.1-20.3%	654	0.4%	0.1-1.1%	786
2002	5.0%	4.3-5.9%	1605	17.8%	15.4-20.5%	672	0.8%	0.4-1.8%	831
2003	4.5%	3.8-5.2%	1617	16.9%	14.6-19.4%	693	0.4%	0.1-1.1%	827
p-value	<0.001			<0.001			0.19		

Source: Alaska Pregnancy Risk Assessment Monitoring System (PRAMS)

Note: For maternal smokeless tobacco use, we report the 95% confidence interval (CI) instead of the margin of error (+/-). See introductory paragraph of Appendix A for additional information.

Note also: Percentages reported in tables may not always match percentages reported in the graphs, due to differences in rounding.

Table 7: Trends in Maternal Smokeless Tobacco Use during Pregnancy, including Chew, Snuff and/or Iqmiq Use, Alaska, 2004-2012

Year	All Mothers	95% CI	N	Alaska Native	95% CI	N	Non-Native	95% CI	N
2004	5.0%	4.1-6.2%	1312	16.6%	13.8-19.9%	508	1.2%	0.5-2.7%	726
2005	5.7%	4.9-6.8%	1337	20.8%	17.7-24.2%	518	0.5%	0.1-1.6%	715
2006	3.6%	2.9-4.4%	1386	14.1%	11.4-17.3%	485	0.2%	0.03-1.3%	738
2007	5.3%	4.4-6.4%	1476	18.0%	15.0-21.3%	526	1.1%	0.5-2.5%	807
2008	4.7%	3.9-5.7%	1273	18.3%	15.2-21.8%	498	0.3%	0.1-1.3%	698
2009	4.6%	3.7-5.7%	1207	16.4%	13.2-20.3%	423	0.5%	0.1-1.6%	720
2010	4.7%	3.8-5.8%	1124	18.4%	14.9-22.4%	396	0.3%	0.04-1.7%	673
2011	4.5%	3.6-5.7%	1057	17.7%	14.1-21.9%	382	0.3%	0.05-1.6%	675
2012	5.5%	4.3-7.0%	842	18.9%	14.9-23.8%	312	0.95%	0.3-2.6%	530
p-value	0.96			0.62			0.54		

Source: Alaska Pregnancy Risk Assessment Monitoring System (PRAMS)

Note: For maternal spit tobacco use, we report the 95% confidence interval (CI) instead of the margin of error (+/-). See introductory paragraph of Appendix A for additional information on margin of error and confidence intervals. See Appendix B for additional information about changes to the questions regarding smokeless or spit tobacco use.

Note also: Percentages reported in tables may not always match percentages reported in the graphs, due to differences in rounding.

Section III. Youth Tobacco Use

Table 8: Trends in Current Cigarette Smoking among High School Students, Alaska 1995-2013

		1995	2003	2007	2009	2011	2013	p-value
All Students		36.5	19.2	17.8	15.7	14.1	10.6	
	±	4.5	2.5	2.9	2.7	3.7	2.5	<0.001
	N	1602	1408	1247	1286	1240	1164	decrease
Female		36.5	20.2	19.7	17.1	14.7	8.2	
	±	5.9	4.1	4.9	3.5	5.3	3.1	<0.001
	N	795	688	622	678	635	599	decrease
Male		36.4	18.4	15.9	14.2	13.5	12.5	
	±	5.3	2.9	2.7	3.1	2.9	3.3	<0.001
	N	801	715	620	599	600	562	decrease
9th Grade		35.4	12.5	12.1	14.1	9.6	6.7	
	±	7.3	3.7	3.5	4.1	3.5	3.3	<0.001
	N	482	488	396	366	391	332	decrease
10th Grade		33.2	23.6	19.3	13.3	14.7	12.5	
	±	7.6	4.7	6.3	4.3	6.5	4.7	<0.001
	N	379	301	238	314	329	302	decrease
11th Grade		39.7	19.2	19.1	13.0	15.3	9.5	
	±	4.5	6.1	6.9	4.7	5.3	4.1	<0.001
	N	468	342	319	338	300	269	decrease
12th Grade		38.7	23.2	21.9	21.6	17.8	13.6	
	±	6.7	6.5	5.1	6.1	6.9	4.9	<0.001
	N	265	261	276	238	213	251	decrease
Alaska Native		61.9	44.2	31.7	24.2	26.4	18.5	
	±	9.2	5.7	7.8	8.0	11.6	5.9	<0.001
	N	177	268	238	276	275	260	decrease
Non-Native		32.5	12.3	13.1	12.1	9.9	7.1	
	±	3.1	2.2	2.5	2.5	2.7	2.2	<0.001
	N	1338	1128	982	912	933	825	decrease

Source: Alaska Youth Risk Behavior Survey

Note: Percentages reported in tables may not always match percentages reported in the graphs, due to differences in rounding.

Table 9: Trends in Current Smokeless Tobacco Use among High School Students, Alaska 1995-2013

		1995	2003	2007	2009	2011	2013	p-value
All Students		15.6	11.2	10.4	13.6	8.4	9.1	
	±	2.7	2.7	3.5	3.1	1.8	2.9	0.001
	N	1622	1457	1301	1323	1319	1229	decrease
Female		6.7	6.2	7.3	7.4	4.3	5.0	
	±	2.5	4.5	3.3	2.9	2.5	3.5	0.371
	N	801	706	647	699	672	629	no trend
Male		23.5	15.6	13.5	19.3	12.1	12.7	
	±	4.1	3.1	4.1	4.1	3.1	3.5	<0.001
	N	815	741	648	618	643	593	decrease
9th Grade		14.4	8.6	11.3	11.9	7.3	6.3	
	±	4.3	2.5	4.7	5.5	3.7	2.9	0.006
	N	492	502	415	373	416	346	decrease
10th Grade		14.8	14.9	9.2	13.6	6.7	10.6	
	±	4.5	6.9	5.7	5.7	2.9	4.5	0.021
	N	381	308	253	332	347	321	decrease
11th Grade		16.4	13.9	9.3	11.8	8.0	10.1	
	±	4.7	5.3	3.7	4.7	2.9	4.3	0.004
	N	474	358	334	351	318	283	decrease
12th Grade		17.2	6.5	11.8	15.9	11.7	9.1	
	±	5.3	3.3	4.5	7.6	3.9	5.5	0.267
	N	267	267	282	237	231	266	no trend
Alaska Native		22.5	24.4	16.5	22.1	12.4	20.5	
	±	6.9	10.6	11.2	8.0	3.5	7.8	0.19
	N	183	284	252	288	303	284	no trend
Non-Native		14.5	7.3	7.9	9.2	6.3	4.8	
	±	2.7	1.8	1.8	2.7	1.8	1.6	<0.001
	N	1352	1159	1020	929	976	865	decrease

Source: Alaska Youth Risk Behavior Survey

Note: Percentages reported in tables may not always match percentages reported in the graphs, due to differences in rounding.

Table 10: Trends in Current Cigar Smoking among High School Students, Alaska 2003-2013

		2003	2007	2009	2011	2013	p-value
All Students		7.8	10.1	10.3	10.3	7.3	
	\pm	1.8	1.8	2.0	2.5	1.8	0.801
	N	1480	1313	1368	1322	1229	no trend
Female		3.5	6.1	6.2	6.1	4.6	
	\pm	1.4	2.2	1.8	2.5	1.6	0.21
	N	709	651	716	672	628	no trend
Male		11.7	13.6	13.7	14.2	9.2	
	\pm	2.7	2.5	3.1	3.3	2.9	0.595
	N	761	654	641	645	593	no trend
9th Grade		5.1	8.1	4.4	3.4	4.7	
	\pm	2.0	2.9	2.0	1.6	2.2	0.188
	N	510	420	382	418	345	no trend
10th Grade		7.1	10.1	7.8	9.1	9.4	
	\pm	2.9	3.7	2.7	3.7	4.1	0.485
	N	313	255	339	348	322	no trend
11th Grade		10.5	10.0	16.2	11.8	6.2	
	\pm	3.9	3.1	4.1	3.1	2.9	0.386
	N	362	337	362	319	282	no trend
12th Grade		9.1	12.7	12.1	18.4	8.9	
	\pm	3.7	4.9	3.5	8.0	3.5	0.387
	N	273	283	250	230	266	no trend
Alaska Native		5.2	7.9	6.3	10.8	5.2	
	\pm	2.9	3.3	3.1	4.3	2.9	0.497
	N	294	258	300	303	283	no trend
Non-Native		8.7	11.0	10.8	9.3	7.7	
	\pm	2.0	2.0	2.4	2.2	2.2	0.618
	N	1172	1026	957	979	866	no trend

Source: Alaska Youth Risk Behavior Survey

Note: Percentages reported in tables may not always match percentages reported in the graphs, due to differences in rounding.

Section IV. Secondhand Smoke

Table 11: Trends in the Percent of Children (Age 0-17) Exposed to Smoke in their Homes in the Past Month (as reported by adult in household), Overall and by Smoking Status of Respondent, Alaska 2004-2012

Year	All	±	N	Smokers	±	N
2004	13.0%	2.9%	1125	39.4%	8.4%	302
2005	9.0%	2.2%	1247	20.4%	6.1%	332
2006	9.1%	2.9%	880	22.7%	8.6%	226
2007	8.1%	2.4%	1108	20.4%	7.3%	259
2008	5.5%	2.2%	959	11.8%	4.7%	242
2009	3.3%	1.2%	930	10.4%	5.5%	187
2010	6.4%	6.1%	480	14.5%	7.4%	106
2011	5.3%	2.4%	995	15.5%	7.1%	216
2012	5.9%	2.7%	1559	11.0%	6.1%	354
2013	7.6%	4.2%	1598	28.2%	15.7%	315
p-value	<0.001			<0.001		

Year	Former Smokers	±	N	Never Smokers	±	N
2004	8.8%	6.7%	251	3.5%	1.6%	564
2005	9.7%	5.5%	304	2.6%	1.6%	601
2006	3.5%	3.5%	214	5.2%	2.9%	435
2007	5.9%	3.3%	271	4.5%	2.5%	570
2008	3.0%	3.5%	236	3.9%	2.9%	474
2009	1.4%	1.2%	253	1.7%	1.4%	479
2010	NA	NA	138	7.4%	1.5%-29.3%	232
2011	0.8%	0.2%-3.3%	261	3.5%	2.9%	509
2012	2.3%	0.4%-10.5%	374	5.4%	4.3%	813
2013	2.7%	1.0%-7.0%	418	1.9%	0.8%-4.1%	856
p-value	0.03			0.25		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: N is the number of adult respondents with children in the household.

For 2010, no former smoker respondents reported any smoking in the household in the past 30 days, so percent and margin of error are not reported.

Note also: Percentages reported in tables may not always match percentages reported in the graphs, due to differences in rounding.

Table 12: Trends in the Percent of Adults who Report that Smoking Is Not Allowed Anywhere in Their Homes, Alaska 2001-2013

Year	All Adults	±	N	Male	±	N	Female	±	N
2001	76.8%	2.4%	2646	76.9%	3.5%	1260	76.6%	3.2%	1386
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	79.8%	2.1%	2646	77.2%	3.3%	1098	82.7%	2.7%	1359
2005	84.0%	1.9%	2457	81.0%	3.0%	1375	87.2%	2.2%	1555
2006	85.6%	2.5%	2930	87.5%	3.1%	933	83.6%	4.0%	1183
2007	85.0%	2.2%	2535	83.3%	3.1%	1176	86.9%	2.7%	1359
2008	86.4%	2.4%	2263	84.1%	3.5%	1037	88.9%	2.9%	1226
2009	90.0%	1.8%	2316	89.9%	2.5%	1034	90.2%	2.4%	1282
2010	90.1%	2.5%	1261	89.1%	3.3%	593	90.4%	4.1%	668
2011	88.6%	2.2%	2553	88.0%	2.9%	1143	89.2%	3.1%	1410
2012	89.1%	1.6%	3971	88.5%	2.4%	1862	89.8%	2.4%	2109
2013	88.4%	1.6%	4540	86.2%	2.5%	2059	90.8%	2.0%	2481
p-value	<0.001			<0.001			<0.001		

Year	Alaska Native	±	N	Non-Native	±	N
2001	80.7%	4.3%	521	76.1%	2.7%	2048
2002	NA			NA		
2003	NA			NA		
2004	76.5%	5.6%	463	80.4%	2.3%	1969
2005	83.3%	4.6%	564	84.1%	2.1%	2326
2006	84.5%	5.0%	391	85.9%	2.9%	1685
2007	85.1%	2.2%	476	85.2%	2.4%	1997
2008	87.8%	3.9%	432	86.3%	2.7%	1791
2009	89.7%	3.7%	393	90.1%	2.0%	1870
2010	92.7%	5.5%	192	89.3%	3.1%	1011
2011	92.7%	2.7%	478	87.7%	2.5%	2030
2012	86.7%	4.3%	784	89.5%	1.8%	3118
2013	87.1%	3.9%	626	89.0%	1.8%	3788
p-value	<0.001			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System. Note: Question not asked in 2002 and 2003. Note: Percentages reported in tables may not always match percentages reported in the graphs, due to differences in rounding.

Table 12: Trends in the Percent of Adults who Report that Smoking Is Not Allowed Anywhere in Their Homes, Alaska 2001-2013 (cont.)

Year	Low SES	±	N	Higher SES	±	N
2001	66.7%	7.3%	325	80.4%	3.2%	1414
2002	NA			NA		
2003	NA			NA		
2004	69.7%	6.8%	336	84.1%	2.6%	1284
2005	77.3%	5.7%	409	86.7%	2.5%	1490
2006	79.5%	7.4%	227	90.4%	2.0%	1166
2007	81.9%	5.9%	272	86.1%	2.7%	1383
2008	72.9%	8.0%	262	89.8%	2.9%	1234
2009	88.3%	4.9%	293	91.6%	2.0%	1215
2010	85.9%	7.1%	159	91.6%	2.9%	668
2011	80.7%	6.5%	314	90.4%	3.1%	1263
2012	82.4%	5.3%	523	91.9%	2.2%	1831
2013	78.2%	5.7%	603	92.4%	1.8%	2209
p-value	<0.001			<0.001		

Year	Ages 18-29	±	N	Ages 30-54	±	N	Age 55 and older	±	N
2001	79.0%	5.5%	498	76.6%	3.0%	1572	75.0%	5.1%	544
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	82.4%	5.0%	431	80.7%	2.8%	1411	75.0%	4.5%	588
2005	86.2%	4.2%	494	84.2%	2.6%	1588	81.3%	4.0%	817
2006	82.2%	8.7%	277	89.2%	2.1%	1149	81.2%	4.2%	655
2007	88.1%	4.7%	393	84.7%	2.9%	1350	82.8%	3.7%	764
2008	89.5%	5.5%	314	84.5%	3.5%	1189	87.0%	3.1%	733
2009	92.2%	4.3%	296	91.5%	2.0%	1162	84.9%	3.5%	830
2010	90.4%	7.3%	142	91.4%	2.9%	596	87.3%	3.9%	502
2011	90.1%	5.3%	264	89.1%	3.1%	1190	86.2%	2.9%	1053
2012	90.4%	3.3%	549	88.2%	2.7%	1773	89.1%	2.7%	1593
2013	89.1%	4.0%	562	88.9%	2.5%	1884	87.3%	2.3%	2043
p-value	<0.001			<0.001			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System. Note: Question not asked in 2002 and 2003.

Table 12: Trends in the Percent of Adults who Report that Smoking Is Not Allowed Anywhere in Their Homes, Alaska 2001-2013 (cont.)

Year	Smokers	±	N	Former Smokers	±	N	Never Smokers	±	N
2001	48.3%	5.3%	806	84.4%	3.6%	766	89.9%	2.4%	1068
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	50.7%	5.7%	608	85.0%	3.7%	642	90.8%	2.0%	1192
2005	62.3%	5.3%	721	88.9%	3.2%	813	92.3%	2.0%	1379
2006	65.3%	6.3%	519	90.5%	3.2%	613	92.8%	3.8%	973
2007	64.5%	6.1%	530	89.2%	3.1%	734	92.4%	2.5%	1254
2008	68.1%	6.3%	506	86.9%	4.9%	691	95.6%	2.2%	1052
2009	69.2%	6.7%	432	92.9%	2.5%	711	96.6%	1.4%	1152
2010	76.8%	7.4%	243	90.6%	4.1%	394	95.7%	3.3%	616
2011	67.7%	6.9%	518	93.9%	2.4%	750	95.3%	2.5%	1266
2012	74.5%	4.7%	782	93.8%	2.5%	1136	92.9%	2.2%	2020
2013	66.5%	5.4%	803	91.9%	2.4%	1390	96.2%	1.3%	2318
p-value	<0.001			<0.001			<0.001		

By Public Health Region

Year	Northern	±	N	South-west	±	N	Gulf Coast	±	N
2001	78%	6.5%	205	83%	4.7%	291	79%	3.8%	517
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	75%	8.2%	159	89%	4.3%	250	81%	4.1%	419
2005	83%	6.3%	172	89%	3.9%	305	84%	3.2%	599
2006	80%	8.6%	129	92%	4.3%	189	87%	3.3%	420
2007	83%	7.4%	164	90%	4.9%	252	80%	4.5%	519
2008	83%	8.8%	142	87%	6.3%	240	80%	5.7%	442
2009	88%	8.0%	121	91%	5.3%	189	87%	3.9%	496
2010	97%	†	52	93%	5.3%	107	87%	6.3%	257
2011	84%	9.8%	153	94%	2.9%	242	85%	6.1%	496
2012	82%	11.2%	232	94%	2.5%	488	88%	4.3%	534
2013	80%	9.9%	168	90%	5.4%	321	86%	3.3%	743
p-value	0.13			0.001			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System. Note: Question not asked in 2002 and 2003.† The 95% confidence interval for Northern Region 2010 is 90.5%-98.8%. See introductory paragraph of Appendix A for additional information.

Table 12: Trends in the Percent of Adults who Report that Smoking Is Not Allowed Anywhere in Their Homes, Alaska 2001-2013 (cont.)

By Public Health Region (cont.)

Year	Interior	±	N	South-east	±	N	Anchorage /Mat-Su	±	N
2001	74%	3.9%	612	74%	4.3%	500	77%	4.1%	512
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	77%	3.9%	580	77%	4.2%	481	81%	3.6%	539
2005	83%	3.1%	645	85%	3.4%	523	83%	3.3%	592
2006	85%	3.7%	494	86%	4.1%	407	86%	4.4%	459
2007	82%	4.7%	548	81%	4.5%	535	88%	3.3%	517
2008	89%	3.3%	534	83%	5.1%	425	88%	3.9%	480
2009	86%	4.3%	566	88%	3.7%	457	93%	2.5%	487
2010	89%	4.3%	315	83%	7.8%	275	92%	4.1%	255
2011	86%	4.1%	580	91%	2.9%	553	90%	3.5%	529
2012	90%	3.1%	875	91%	3.7%	570	89%	2.5%	1272
2013	88%	2.7%	1048	89%	3.0%	790	89%	2.6%	1470
p-value	<0.001			<0.001			<0.001		

By Selected Boroughs

Year	Fairbanks North Star	±	N	Anchorage	±	N	Mat-Su	±	N
2001	74%	4.3%	500	80%	4.5%	403	69%	9.8%	109
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	77%	4.2%	481	77%	4.1%	413	79%	7.3%	126
2005	85%	3.4%	523	86%	3.7%	445	77%	7.4%	147
2006	86%	4.1%	407	82%	5.7%	346	89%	5.5%	113
2007	83%	4.9%	445	90%	3.3%	386	81%	8.4%	131
2008	89%	3.5%	422	92%	3.1%	347	76%	10.4%	133
2009	86%	4.9%	465	94%	2.5%	370	88%	7.4%	117
2010	90%	4.9%	263	95%	3.1%	201	80%*	14.9%	54*
2011	86%	4.5%	452	90%	4.1%	371	88%	5.5%	158
2012	91%	3.5%	581	90%	2.9%	740	87%	5.7%	532
2013	88%	3.1%	859	90%	3.3%	816	87%	3.6%	654
p-value	<0.001			<0.001			<0.01		

Source: Alaska Behavioral Risk Factor Surveillance System. Note: Question not asked in 2002 and 2003.

* Interpret with caution. Asterisk next to number indicates estimate with high coefficient of variation or sample size inadequate for common event.

Table 13: Trends in the Percent of Employed or Self-Employed Alaskan Adults Working Primarily Indoors who Report that Smoking is not Allowed in Any Work Areas, Alaska 1998-2013

Year	All Adults	±	N	Male	±	N	Female	±	N
1998	83.9%	3.2%	1061	78.2%	5.8%	422	89.1%	3.1%	639
1999	NA			NA			NA		
2000	80.0%	3.9%	1108	77.6%	5.8%	471	82.2%	5.3%	637
2001	90.0%	2.0%	1523	89.1%	3.1%	644	90.9%	2.5%	879
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	84.6%	2.5%	1364	79.9%	4.3%	535	89.0%	2.9%	829
2005	83.8%	2.8%	1521	78.8%	4.7%	636	88.4%	3.0%	885
2006	83.8%	3.4%	1119	79.9%	5.7%	426	87.2%	4.1%	693
2007	87.3%	2.9%	1308	82.7%	5.1%	551	91.7%	2.7%	757
2008	87.6%	2.9%	1147	83.9%	4.7%	462	91.0%	3.9%	685
2009	83.6%	4.3%	1142	81.2%	6.5%	456	86.0%	5.5%	686
2010	84.5%	5.9%	635	88.8%	4.9%	270	80.8%	9.6%	365
2011	87.2%	3.1%	1236	81.6%	5.7%	488	92.5%	2.5%	748
2012	88.0%	2.4%	1831	84.9%	4.1%	771	90.9%	2.5%	1060
2013	85.0%	2.5%	2363	81.2%	4.3%	962	88.5%	2.8%	1401
p-value	0.11			0.13			0.50		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Question not asked in 1999, 2002 and 2003.

Note also: Percentages reported in tables may not always match percentages reported in the graphs, due to differences in rounding.

Table 13: Trends in the Percent of Employed or Self-Employed Alaskan Adults Working Primarily Indoors who Report that Smoking is not Allowed in Any Work Areas, Alaska 1998-2013 (*cont.*)

Year	Alaska Native	±	N	Non-Native	±	N
1998	84.0%	8.9%	140	83.9%	3.4%	913
1999	NA			NA		
2000	77.2%	12.6%	162	79.9%	4.2%	929
2001	82.9%	7.4%	266	91.1%	2.0%	1214
2002	NA			NA		
2003	NA			NA		
2004	80.5%	6.8%	226	85.2%	2.8%	1123
2005	78.5%	7.9%	237	84.5%	3.0%	1270
2006	77.7%	10.4%	158	84.3%	3.7%	940
2007	82.8%	6.9%	196	88.1%	3.3%	960
2008	78.4%	8.0%	165	88.4%	3.3%	966
2009	77.2%	9.0%	155	84.4%	4.7%	967
2010	81.6%	11.4%	84	84.1%	6.7%	529
2011	81.5%	10.2%	191	88.3%	3.1%	1021
2012	81.4%	8.0%	266	88.8%	2.5%	1537
2013	80.8%	6.0%	280	85.7%	2.8%	2018
p-value	0.94			0.09		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Question not asked in 1999, 2002 and 2003.

Table 13: Trends in the Percent of Employed or Self-Employed Alaskan Adults Working Primarily Indoors who Report that Smoking is not Allowed in Any Work Areas, Alaska 1998-2013 (cont.)

Year	Low SES	±	N	Higher SES	±	N
1998	76.0%	8.9%	139	86.3%	4.2%	689
1999	NA			NA		
2000	64.6%	15.0%	113	85.2%	3.4%	735
2001	87.2%	5.4%	165	93.1%	1.9%	971
2002	NA			NA		
2003	NA			NA		
2004	84.5%	7.2%	154	87.3%	2.8%	878
2005	77.7%	9.7%	171	87.8%	2.8%	977
2006	77.3%	12.3%	98	88.9%	2.8%	782
2007	86.9%*	9.0%	103*	88.8%	3.7%	909
2008	85.2%*	12.9%	98*	90.2%	2.7%	804
2009	82.0%*	10.4%	133*	90.0%	3.7%	770
2010	79.7%*	21.2%	53*	92.0%	3.9%	449
2011	79.2%*	11.8%	125*	91.0%	2.9%	821
2012	85.9%	7.6%	200	89.7%	2.9%	1164
2013	79.6%	8.0%	276	88.4%	2.7%	1481
p-value	0.19			0.04		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Question not asked in 1999, 2002 and 2003.

* Interpret with caution. Asterisk next to number indicates estimate with high coefficient of variation or sample size inadequate for very common event.

Where N < 35, no estimate is reported.

Table 13: Trends in the Percent of Employed or Self-Employed Alaskan Adults Working Primarily Indoors who Report that Smoking is not Allowed in Any Work Areas, Alaska 1998-2013 (cont.)

Year	Ages 18-29	±	N	Ages 30-54	±	N	Age 55 and older	±	N
1998	85.1%	5.2%	206	85.6%	3.4%	756	71.0%*	16.9%	96*
1999	NA			NA			NA		
2000	77.4%	9.6%	207	81.4%	4.3%	794	75.9%*	13.2%	101*
2001	86.9%	5.6%	292	90.8%	2.2%	1035	92.0%	4.3%	178
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	78.6%	8.4%	210	84.9%	2.9%	939	90.2%	4.1%	200
2005	76.4%	7.5%	263	85.4%	3.2%	961	89.8%	5.3%	275
2006	73.7%	11.0%	158	87.0%	3.4%	729	86.7%	6.2%	217
2007	77.2%	9.4%	198	90.2%	2.9%	837	91.2%	4.9%	256
2008	78.3%	9.8%	142	91.1%	2.5%	740	87.4%*	8.4%	251*
2009	67.7%	12.9%	151	87.1%	4.5%	702	91.5%	3.7%	279
2010	70.1%*	16.3%	78*	90.4%	4.3%	383	86.6%*	‡	166*
2011	86.0%*	7.6%	127*	85.2%	4.3%	705	93.0%	3.3%	381
2012	83.8%	5.7%	258	88.0%	3.3%	1049	92.4%	3.7%	502
2013	77.7%	6.6%	320	85.0%	3.4%	1241	92.1%	4.0%	776
p-value	0.18			0.16			<0.01		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Question not asked in 1999, 2002 and 2003.

* Interpret with caution. Asterisk next to number indicates estimate with high coefficient of variation or sample size inadequate for very common event.

Where N < 35, no estimate is reported.

‡ The 95% confidence interval for Age 55 and older 2010 is 65.7%-95.6%. See introductory paragraph of Appendix A for additional information.

Table 13: Trends in the Percent of Employed or Self-Employed Alaskan Adults Working Primarily Indoors who Report that Smoking is not Allowed in Any Work Areas, Alaska 1998-2013 (cont.)

Year	Smokers	±	N	Former Smokers	±	N	Never Smokers	±	N
1998	73.7%	7.3%	268	87.4%	5.7%	253	87.1%	4.5%	540
1999	NA			NA			NA		
2000	68.3%	9.6%	268	79.4%	8.4%	271	86.0%	3.9%	566
2001	81.7%	5.4%	392	92.4%	3.1%	410	92.9%	2.4%	717
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	72.7%	7.3%	302	88.3%	4.5%	342	87.7%	3.1%	782
2005	76.9%	7.0%	325	80.8%	6.0%	404	88.2%	3.3%	856
2006	72.8%	9.1%	242	85.5%	5.3%	322	87.2%	4.7%	608
2007	77.8%	9.2%	246	88.4%	5.5%	364	90.2%	3.3%	692
2008	83.0%	6.3%	213	84.8%	6.5%	328	92.0%	3.3%	599
2009	72.4%	11.2%	181	89.1%	3.9%	342	83.3%	6.7%	610
2010	78.9%*	14.3%	109*	88.5%	8.4%	179	84.9%	8.0%	345
2011	80.9%	8.4%	210	85.4%	5.9%	337	90.6%	3.9%	680
2012	77.5%	7.1%	285	89.3%	4.9%	477	90.8%	2.9%	1054
2013	76.3%	6.9%	358	88.2%	4.1%	644	86.4%	3.5%	1351
p-value	0.17			0.29			0.84		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Question not asked in 1999, 2002 and 2003.

* Interpret with caution. Asterisk next to number indicates estimate with high coefficient of variation or sample size inadequate for very common event.

Where N < 35, no estimate is reported.

Table 13: Trends in the Percent of Employed or Self-Employed Alaskan Adults Working Primarily Indoors who Report that Smoking is not Allowed in Any Work Areas, Alaska 1998-2013 (*cont.*)
By Public Health Region

Year	Northern	±	N	South-west	±	N	Gulf Coast	±	N
1998	84%	9.2%	82	81%	10.1%	104	79%	7.1%	175
1999	NA			NA			NA		
2000	78%*	13.7%	67*	88%	6.7%	103	73%	8.2%	181
2001	80%	9.2%	131	89%	5.4%	165	85%	4.8%	252
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	87%	8.2%	87	81%	8.5%	126	77%	6.5%	259
2005	79%	9.2%	97	87%	6.1%	158	80%	5.0%	311
2006	81%*	11.6%	64*	91%*	5.4%	87*	81%	6.8%	189
2007	85%	9.0%	95	85%	7.1%	126	89%	4.9%	237
2008	65%	14.7%	78	88%	7.8%	119	82%	7.4%	199
2009	75%*	15.1%	66*	89%*	8.2%	93*	82%	6.9%	214
2010	*	*	26	83%*	14.7%	55*	83%*	9.0%	113*
2011	81%*	13.1%	86*	75%	12.0%	115	84%	7.6%	216
2012	93%	4.5%	110	89%	8.0%	222	84%	7.1%	214
2013	66%*	15.0%	103*	87%	7.1%	170	82%	5.7%	316
p-value	0.36			0.98			0.07		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Question not asked in 1999, 2002 and 2003.

* Interpret with caution. Asterisk next to number indicates estimate with high coefficient of variation or sample size inadequate for very common event.

Where N < 35, no estimate is reported.

Table 13: Trends in the Percent of Employed or Self-Employed Alaskan Adults Working Primarily Indoors who Report that Smoking is not Allowed in Any Work Areas, Alaska 1998-2013 (cont.)
By Public Health Region

Year	Interior	±	N	South-east	±	N	Anchorage /Mat-Su	±	N
1998	78%	6.3%	234	83%	5.8%	224	87%	5.3%	242
1999	NA			NA			NA		
2000	80%	5.5%	263	83%	5.7%	253	80%	6.5%	243
2001	87%	3.7%	390	91%	3.7%	279	92%	3.2%	308
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	80%	4.9%	335	81%	5.6%	247	88%	4.0%	311
2005	85%	4.7%	338	86%	4.2%	308	84%	4.7%	311
2006	80%	6.5%	274	82%	6.2%	236	85%	5.5%	271
2007	80%	6.9%	292	84%	5.5%	278	90%	4.5%	280
2008	84%	6.1%	288	85%	6.3%	215	92%	2.4%	248
2009	79%	8.0%	288	86%	6.1%	218	85%	7.1%	263
2010	84%*	7.6%	161*	81%*	12.0%	132	85%*	9.4%	148*
2011	81%	7.6%	278	87%	5.7%	267	91%	4.5%	274
2012	88%	5.3%	391	88%	6.7%	263	88%	3.5%	631
2013	87%	4.8%	547	83%	6.5%	432	87%	3.8%	795
p-value	0.09			0.94			0.37		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Question not asked in 1999, 2002 and 2003.

* Interpret with caution. Asterisk next to number indicates estimate with high coefficient of variation or sample size inadequate for very common event.

Where N < 35, no estimate is reported.

Table 13: Trends in the Percent of Employed or Self-Employed Alaskan Adults Working Primarily Indoors who Report that Smoking is not Allowed in Any Work Areas, Alaska 1998-2013 (*cont.*)
By Selected Boroughs

Year	Fairbanks North Star	±	N	Anchorage	±	N	Mat-Su	±	N
1998	78%	6.7%	196	87%	5.7%	208	*	*	34
1999	NA			NA			NA		
2000	81%	5.8%	225	80%	7.3%	209	*	*	34
2001	89%	3.6%	332	93%	3.3%	254	89%*	8.8%	54*
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	80%	5.2%	292	89%	4.3%	252	84%	10.0%	59
2005	84%	5.1%	293	87%	4.9%	236	75%	11.6%	75
2006	80%	7.0%	233	88%	5.7%	220	77%	14.9%	51*
2007	80%	7.3%	249	92%	4.9%	214	80%	11.8%	66
2008	84%	6.7%	248	93%*	5.1%	192*	86%*	11.4%	56*
2009	79%	8.8%	249	84%	8.0%	208	89%*	‡	55*
2010	84%*	8.2%	139*	87%*	10.0%	123*	*	*	25
2011	81%	8.6%	221	94%*	4.5%	198*	79%	12.3%	76
2012	88%	5.5%	280	90%	3.5%	398	80%	9.8%	233
2013	87%	5.3%	466	87%	4.5%	481	86%	5.9%	314
p-value	0.19			0.27			0.96		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Question not asked in 1999, 2002 and 2003.

* Interpret with caution. Asterisk next to number indicates estimate with high coefficient of variation or sample size inadequate for very common event.

Where N < 35, no estimate is reported.

‡ The 95% confidence interval for Mat-Su 2009 is 69.97%-96.5%. See introductory paragraph of Appendix A for additional information.

Table 14: Trends in the Percent of Adults who Agree that Smoking Should Not be Allowed in Indoor Work Areas, Alaska 1998-2013

Year	All Adults	±	N	Male	±	N	Female	±	N
1998	70.0%	2.8%	1951	63.5%	4.4%	903	77.2%	3.5%	1048
1999	NA			NA			NA		
2000	77.8%	2.7%	2052	71.9%	4.1%	972	84.1%	3.1%	1080
2001	NA			NA			NA		
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	79.9%	2.2%	2448	72.4%	3.5%	1090	87.9%	2.3%	1358
2005	80.3%	2.2%	2921	74.6%	3.4%	1361	86.3%	2.5%	1560
2006	77.4%	2.9%	2110	70.8%	4.5%	927	84.3%	3.6%	1183
2007	76.7%	2.7%	2551	70.0%	4.1%	1185	83.8%	2.9%	1366
2008	76.7%	2.9%	2268	71.0%	4.5%	1037	82.9%	3.7%	1231
2009	83.0%	2.5%	2315	80.2%	4.1%	1037	86.2%	3.1%	1278
2010	82.2%	3.9%	1265	80.7%	5.3%	595	83.9%	5.7%	670
2011	80.0%	2.9%	2570	74.5%	4.5%	1153	86.0%	3.3%	1417
2012	82.6%	1.9%	3995	79.1%	2.8%	1874	86.4%	2.4%	2121
2013	85.5%	1.7%	4552	82.1%	2.6%	2059	89.1%	2.2%	2493
p-value	<0.001			<0.001			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Question not asked in 1999, or 2001-2003.

Note also: Percentages reported in tables may not always match percentages reported in the graphs, due to differences in rounding.

Table 14: Trends in the Percent of Adults who Agree that Smoking Should Not be Allowed in Indoor Work Areas, Alaska 1998-2013 (cont.)

Year	Alaska Native	±	N	Non-Native	±	N
1998	73.2%	5.9%	349	69.7%	3.2%	1582
1999	NA			NA		
2000	76.7%	7.2%	387	78.5%	2.8%	1610
2001	NA			NA		
2002	NA			NA		
2003	NA			NA		
2004	76.1%	5.7%	461	80.7%	2.3%	1964
2005	77.1%	5.8%	564	81.1%	2.3%	2317
2006	72.9%	7.7%	391	78.0%	3.2%	1682
2007	79.3%	5.9%	479	76.4%	2.9%	2009
2008	73.4%	7.3%	436	77.2%	3.3%	1791
2009	82.1%	5.5%	395	83.0%	2.9%	1869
2010	84.9%	8.6%	196	82.8%	4.1%	1015
2011	86.0%	4.1%	483	78.9%	3.3%	2042
2012	75.9%	5.1%	786	83.8%	2.0%	3139
2013	85.7%	4.2%	629	85.4%	2.0%	3797
p-value	<0.001			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Question not asked in 1999, or 2001-2003.

Table 14: Trends in the Percent of Adults who Agree that Smoking Should Not be Allowed in Indoor Work Areas, Alaska 1998-2013 (cont.)

Year	Low SES	±	N	Higher SES	±	N
1998	65.9%	7.5%	284	74.3%	3.8%	1024
1999	NA			NA		
2000	73.4%	7.6%	258	79.9%	3.2%	1091
2001	NA			NA		
2002	NA			NA		
2003	NA			NA		
2004	70.3%	6.7%	333	83.3%	2.8%	1285
2005	67.1%	7.0%	405	84.7%	2.6%	1489
2006	75.3%	8.6%	228	82.7%	3.0%	1158
2007	71.6%	7.1%	273	79.4%	3.5%	1391
2008	76.6%	7.6%	262	80.6%	3.9%	1231
2009	82.7%	6.3%	295	85.5%	3.1%	1210
2010	77.8%	10.6%	159	87.8%	3.5%	666
2011	65.3%	8.8%	315	83.8%	3.7%	1271
2012	78.9%	5.4%	529	86.9%	2.3%	1835
2013	78.9%	5.9%	602	90.5%	1.8%	2215
p-value	<0.01			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Question not asked in 1999, or 2001-2003.

Table 14: Trends in the Percent of Adults who Agree that Smoking Should Not be Allowed in Indoor Work Areas, Alaska 1998-2013 (cont.)

Year	Ages 18-29	±	N	Ages 30-54	±	N	Age 55 and older	±	N
1998	64.6%	6.2%	394	73.4%	3.5%	1203	66.4%	7.7%	347
1999	NA			NA			NA		
2000	76.4%	6.7%	374	78.7%	3.2%	1274	76.3%	6.1%	393
2001	NA			NA			NA		
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	84.5%	4.4%	429	79.0%	3.0%	1408	78.3%	4.4%	584
2005	79.7%	5.0%	494	80.1%	3.0%	1586	82.0%	3.7%	810
2006	74.5%	8.8%	278	79.8%	3.4%	1146	75.4%	4.4%	651
2007	73.9%	7.1%	395	79.3%	3.3%	1357	73.5%	4.9%	767
2008	71.1%	7.8%	315	79.1%	4.1%	1187	77.2%	4.5%	739
2009	81.1%	7.3%	297	85.1%	3.3%	1159	80.7%	3.9%	831
2010	76.7%	11.0%	142	88.1%	3.7%	597	78.5%	5.7%	507
2011	80.7%	7.1%	267	77.7%	4.5%	1194	83.6%	3.1%	1063
2012	82.1%	4.3%	547	83.8%	2.7%	1777	81.0%	2.9%	1616
2013	80.3%	5.1%	560	87.3%	2.5%	1885	87.1%	2.0%	2057
p-value	<0.01			<0.001			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Question not asked in 1999, or 2001-2003.

Table 14: Trends in the Percent of Adults who Agree that Smoking Should Not be Allowed in Indoor Work Areas, Alaska 1998-2013 (cont.)

Year	Smokers	±	N	Former Smokers	±	N	Never Smokers	±	N
1998	53.0%	5.9%	532	69.6%	5.9%	497	79.2%	3.9%	920
1999	NA			NA			NA		
2000	63.2%	6.6%	524	75.4%	5.3%	533	86.5%	2.6%	984
2001	NA			NA			NA		
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	58.6%	5.6%	609	79.4%	4.3%	640	90.4%	2.1%	1184
2005	62.2%	5.5%	719	80.0%	4.3%	808	89.8%	2.2%	1377
2006	57.2%	6.9%	514	79.4%	4.7%	610	86.5%	4.0%	974
2007	59.7%	6.7%	531	76.5%	4.7%	735	84.9%	3.3%	1265
2008	57.4%	6.9%	507	73.9%	5.7%	693	88.1%	3.5%	1054
2009	65.0%	7.1%	429	87.0%	3.9%	714	87.9%	3.7%	1150
2010	66.7%	10.2%	244	84.7%	5.1%	391	87.7%	5.1%	621
2011	59.4%	7.4%	519	79.6%	5.5%	754	89.8%	3.3%	1277
2012	63.6%	5.3%	781	84.4%	3.3%	1147	89.9%	2.0%	2033
2013	69.2%	5.3%	801	86.3%	3.0%	1393	92.2%	1.8%	2328
p-value	<0.01			<0.001			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Question not asked in 1999, or 2001-2003.

Table 14: Trends in the Percent of Adults who Agree that Smoking Should Not be Allowed in Indoor Work Areas, Alaska 1998-2013 (cont.)
By Public Health Region

Year	Northern	±	N	South-west	±	N	Gulf Coast	±	N
1998	73%	8.8%	130	79%	6.6%	201	65%	5.5%	408
1999	NA			NA			NA		
2000	76%	10.0%	126	82%	6.9%	216	67%	6.2%	406
2001	NA			NA			NA		
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	77%	8.4%	159	81%	5.9%	251	73%	4.5%	512
2005	82%	6.5%	173	89%	4.1%	304	77%	4.0%	613
2006	76%	8.6%	129	79%	7.4%	191	70%	5.1%	426
2007	78%	8.2%	167	90%	4.9%	254	74%	4.9%	520
2008	68%	10.6%	144	77%	8.2%	241	70%	6.3%	439
2009	83%	8.2%	122	82%	8.6%	190	82%	4.1%	498
2010	92%*	‡	52*	91%	8.0%	107	83%	6.1%	257
2011	82%	8.4%	155	84%	6.7%	246	80%	6.3%	501
2012	77%	11.8%	231	79%	6.3%	493	81%	4.5%	538
2013	81%	10.6%	167	90%	4.4%	323	82%	4.0%	743
p-value	0.12			0.07			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Question not asked in 1999, or 2001-2003.

* Interpret with caution. Asterisk next to number indicates estimate with high coefficient of variation or sample size inadequate for very common event.

‡ The 95% confidence interval for Northern 2010 is 74.2%-97.6%. See introductory paragraph of Appendix A for additional information.

Table 14: Trends in the Percent of Adults who Agree that Smoking Should Not be Allowed in Indoor Work Areas, Alaska 1998-2013 (cont.)
By Public Health Region

Year	Interior	±	N	South-east	±	N	Anchorage /Mat-Su	±	N
1998	64%	4.3%	429	76%	4.6%	391	71%	5.1%	395
1999	NA			NA			NA		
2000	73%	4.5%	464	79%	4.5%	425	81%	4.5%	419
2001	NA			NA			NA		
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	81%	3.5%	577	76%	4.7%	414	82%	3.6%	538
2005	78%	3.7%	644	81%	3.7%	596	81%	3.7%	593
2006	79%	4.3%	491	79%	4.3%	421	78%	5.0%	454
2007	77%	4.7%	553	81%	4.1%	537	75%	4.5%	520
2008	78%	6.1%	538	81%	4.9%	427	77%	4.9%	479
2009	81%	4.3%	567	82%	4.3%	455	84%	4.5%	483
2010	81%	6.3%	318	72%	8.6%	277	83%	6.7%	254
2011	80%	4.7%	582	81%	6.1%	554	80%	4.7%	532
2012	79%	4.7%	880	83%	4.1%	574	85%	2.7%	1279
2013	82%	3.5%	1052	82%	4.9%	797	88%	2.5%	1470
p-value	<0.001			0.07			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Question not asked in 1999, or 2001-2003.

**Table 14: Trends in the Percent of Adults who Agree that Smoking Should Not be Allowed in Indoor Work Areas, Alaska 1998-2013 (cont.)
By Selected Boroughs**

Year	Fairbanks North Star	±	N	Anchorage	±	N	Mat-Su	±	N
1998	62%	5.3%	360	73%	5.5%	320	62%	12.3%	75*
1999	NA			NA			NA		
2000	74%	4.8%	380	85%	4.7%	341	64%	12.0%	78*
2001	NA			NA			NA		
2002	NA			NA			NA		
2003	NA			NA			NA		
2004	82%	3.7%	478	85%	3.9%	413	73%	8.6%	125
2005	79%	4.1%	522	84%	3.9%	447	71%	8.6%	146
2006	80%	4.6%	404	81%	5.5%	343	70%	11.2%	111*
2007	78%	5.1%	448	78%	5.1%	390	67%	9.8%	130
2008	82%	5.3%	422	80%	5.5%	347	71%	10.4%	132
2009	83%	4.3%	464	86%	4.7%	365	76%	10.8%	118
2010	80%	7.1%	264	85%	7.3%	200	75%*	15.5%	54*
2011	80%	5.1%	454	81%	5.7%	371	75%	8.8%	161
2012	79%	5.3%	583	85%	3.3%	744	86%	4.3%	535
2013	82%	3.9%	862	88%	3.3%	817	86%	3.5%	653
p-value	<0.001			<0.01			<0.001		

Source: Alaska Behavioral Risk Factor Surveillance System

Note: Question not asked in 1999, or 2001-2003.

* Interpret with caution. Asterisk next to number indicates estimate with high coefficient of variation or sample size inadequate for very common event.

VII. Appendix B: Data Sources

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. Estimates used for 2013 come from the “FY 132 Cigarette and Other Tobacco Products Summary” dated August 2013. 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>.

Population Estimates

Alaska and U.S. population estimates by age, used in calculating U.S. tobacco consumption (packs per adult), come from the U.S. Census Bureau Population Division website Table 2: Annual Estimates of the Population by Sex and Selected Age Groups for the United States: April 1, 2000 to July 1, 2010 (NC-EST2007-02). For 2010, these data were replaced with information from the Census release at <http://2010.census.gov/2010census/>. The Alaska census data are also located on the Alaska Department of Labor and Workforce Development population estimate web pages at <http://laborstats.alaska.gov/census/>.

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://laborstats.alaska.gov/?PAGEID=67&SUBID=171>.

Smoking Attributable Mortality, Morbidity and Economic Costs (SAMMEC)

Estimates of Alaska's mortality and economic costs associated with tobacco use were calculated using an online application developed at CDC known as Smoking Attributable Mortality, Morbidity and Economic Costs (SAMMEC). The SAMMEC formula applies age- and sex-specific smoking-attributable fractions to mortality data for each smoking-related disease in the population under study, also taking into consideration the smoking prevalence for each population. The overall smoking-attributable mortality is the sum of the smoking-attributable deaths across age groups and causes of death for both sexes combined for a given year.

SAMMEC also provides estimates of smoking-attributed medical expenditures and for productivity losses due to smoking mortality. This application does not currently allow estimates of morbidity-related productivity costs. The estimates of adult medical expenditures attributable to smoking and the loss of productivity due to smoking-related mortality were calculated using such measures as the state's 2012 age-and-sex-specific mortality rates for specified conditions, the 2012 BRFSS estimate of adult smoking prevalence, the 2004 present value for future earnings, and the 2004 U.S. life expectancy. The estimate for productivity losses was adjusted using the 2012 employment cost index information from the U.S. Department of Labor, Bureau of Labor and Statistics (<http://www.bls.gov/ncs/ect/>). The 2004 estimate of total medical spending in Alaska, obtained from the Centers for Medicare and Medicaid Services, was used in estimating smoking-related medical expenditures. This estimate was then adjusted to 2012 using medical consumer price index information from the U.S. Department of Labor, Bureau of Labor and Statistics (<http://www.bls.gov/cpi/>).

Data on specific causes of deaths from smoking-related diseases in Alaska were abstracted from death certificates, provided by the Alaska Bureau of Vital Statistics. The cause of death used in our analysis was the underlying cause, based on the Tenth Revision of the International Classification of Diseases (ICD-10). Deaths of Alaska residents who died out of state were not included in the figures used to produce the SAMMEC estimates of tobacco-related deaths and the associated economic costs. The estimates of current smoking prevalence used for the SAMMEC calculations were obtained from the Alaska BRFSS.

Estimated deaths due to secondhand smoke are national estimates from the U.S. Department of Health and Human Services 2014 report, "The Health Consequences of Smoking: 50 Years of Progress. A Report of the Surgeon General." Available at <http://www.surgeongeneral.gov/library/reports/50-years-of-progress> .

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 (CDC). It aims to estimate the prevalence of behavioral risk factors in the general population that are known to be associated with the leading causes of morbidity and mortality in adults. The BRFSS has operated continuously in Alaska since 1991.

Alaska presently conducts two BRFSS surveys: the standard BRFSS and a separately funded supplemental BRFSS. The supplemental survey contains most of the additional tobacco-related questions, some of which have been adapted from the CDC's Adult Tobacco Survey. Both surveys are conducted throughout the year, using separate samples drawn using the same methodology. In 2013, approximately 760 Alaska adults were interviewed each month for the two BRFSS surveys combined. The 2013 sample includes 2,041 respondents reached by cell phone and 7,132 respondents reached by their residential landline phone. Because sample size is lower for some subpopulation reporting groups, data from the 2 to 3 most recent years have occasionally been combined to report some key indicators.

How BRFSS Survey Participants are Selected

The BRFSS uses a probability (or random) sample in which all Alaska households with landline telephones have a known, nonzero chance of selection. Respondents are randomly selected from among the adult members of each household reached through a series of telephone calls. Historically, those living in institutional housing (i.e., nursing homes and barracks) are not surveyed. The sample is stratified into geographic regions, with roughly equal numbers of interviews conducted in each region. This method deliberately oversamples rural areas of the state. The sample was stratified into six geographic regions in 2011—Anchorage, Mat-Su, Gulf, Southeast, Fairbanks North Star, and Rural. In 2012 and 2013 there were seven regions; the rural region was divided into Southwest and Northern/Interior regions.

In addition, the sampling frame has been expanded to include cell phones as well as landline or household phones. This step was important because the proportion of households served only by cell phones has increased rapidly. By June 2010, about 20% of Alaska households were cell-only. Starting in 2011, Alaska's cell phone sample was 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.

Data Weighting and Methods Issues

BRFSS data are weighted to adjust the distribution of the sample data so that it reflects the total population of the sampled area, and to compensate for the over-representation or under-representation of persons in various subgroups.

Changes in both the weighting and sampling methods are reflected in the estimates reported in this update of Tobacco Facts (and other recent Tobacco Facts updates since 2013). These changes help ensure that the BRFSS can continue to be a valuable source of information for health planning and improvement. The first change is a new 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. To provide additional context for interpretation about changes in prevalence estimates over time, raking was applied to data from 2007 forward, and therefore the estimates listed for 2007 through 2010 may be slightly different from estimates reported in earlier publications.

As noted above, starting in 2011 survey participants include people who have cell phones, in addition to those who have a traditional landline phone. Therefore, 2011 and later data for many key indicators like adult smoking and smokeless use will reflect the population of cell-only Alaskan adults as well as those who have landline only or landline and cell phones. This change in sampling may also have an effect on prevalence estimates, although the differences are often minimal. More information about the changes in BRFSS methods can be found in the January 2013 issue of *Chronicles*: <http://dhss.alaska.gov/dph/Chronic/Documents/Publications/assets/ChroniclesV5-1.pdf>.

Both the standard and supplemental BRFSS are weighted (separately) for analysis of items that occur only in one version. In addition, a combined dataset (standard plus supplemental) is created and weighted for analysis of questions that occur in both versions. In recent years, the combined sample has included more respondents (a little more than 6,000 in 2011, 8,000 in 2012, and 9,000 in 2013), but prior years included fewer respondents. Between 1996 and 2003 annual sample size ranged from 1,536 to 2,875 respondents, and from 2004 to 2010, the annual combined sample size averaged about 4,750 respondents. The larger sample sizes allow for more precision in the estimates of tobacco-related items, including prevalence of smoking and SLT use. Where possible, the combined dataset was used to provide the estimates contained in this report. In cases where questions appeared on only one or another of the BRFSS surveys, that particular dataset was used.

In this report, we used chi-square tests in our comparisons between groups of Alaskans. Chi-square tests are tests of association between group and outcome variables (for example, smoking [yes, no] and gender [male, female]). For trend analyses, we used logistic regression models that tested for a statistically significant linear change over time. P-values less than 0.05 indicate that a difference seen between percentages or across years is statistically significant at the 95% confidence level.

In the appendix tables, we report the margin of error around the estimate in the column listed as “+/-”. In the bar graphs, the margin of error is shown using error bars (lines with a “T” at either end). The margin of error is usually defined as the “radius” (or half the width) of a confidence interval for a particular statistic from a survey. When the margin of error is added to or subtracted from the estimate, it shows the range of where the true population estimate is expected to be, at the 95% confidence level. Where the margin of error produces a 95% confidence interval that crosses 0% or 100%, we do not report margin of error, but instead report the confidence interval using a logit transformation, which is calculated to stay within the 0-100% range.

Reporting by Priority Populations

The Leadership for Eliminating Alaskan Disparities (LEAD) workgroup identified three initial priority populations in the 2007 Alaska Strategic Plan for Eliminating Tobacco-Related Disparities. BRFSS data are a key source of information for all three priority populations – Alaska Natives, people of low socio-economic status, and young adults (age 18-29).

Reporting by Race Group

Alaska Native includes all survey respondents who report “Alaska Native/American Indian” as their primary or only race group. Those who report being Hispanic or reported their race as something other than Alaska Native or American Indian are included in the “non-Native” group.

In order to monitor disparities in tobacco use among other racial/ethnic groups, adult tobacco use is also reported for 5 race/ethnicity categories. 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.

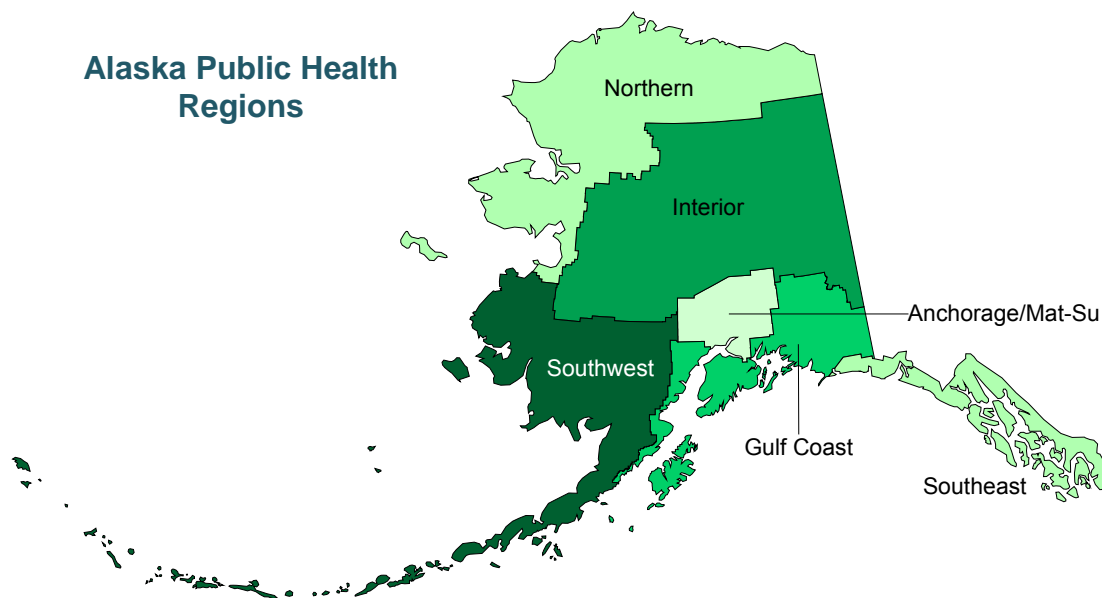
Reporting by Socio-Economic Status (SES)

In the BRFSS data, the low SES priority population is defined as 'non-Native adults (age 25-64) of low socio-economic status.' Reporting by SES is restricted to non-Native because reporting for Alaska Native as a priority population is already done separately. Reporting by SES is also restricted to age 25 to 64 because younger adults (age 18-24) may not have had a chance to complete their education and begin to earn an income. Older adults age 65 and over are similarly excluded because income and education might be inadequate SES markers for those who are potentially retired and eligible for Medicare.

Poverty level (as calculated by income and household size) and education level were identified as key indicators of SES that are available using BRFSS. The State of Alaska guideline for Medicaid eligibility – household incomes at or below the 185% poverty guideline - was adopted as the poverty measure. Therefore, “low SES” was calculated as those persons with less than a High School education or less than 185% of the Alaska Poverty Level Guideline.

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. Regions reported here are the Alaska Public Health Regions, which are the same as Labor Market Regions used by the Alaska Department of Labor and Workforce Development.



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

The Alaska Public Health Regions are defined using borough designation as follows:

- 1) **Anchorage/Mat-Su** – Municipality of Anchorage and Matanuska-Susitna Borough
- 2) **Gulf Coast** – Kenai Peninsula Borough, Kodiak Island Borough, and Valdez-Cordova Census Area
- 3) **Interior** – Denali Borough, Fairbanks North Star Borough, Southeast Fairbanks Census Area, and Yukon-Koyukuk Census Area
- 4) **Northern** – Nome Census Area, North Slope Borough, and Northwest Arctic Borough
- 5) **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
- 6) **Southwest** – Aleutians East Borough, Aleutians West Census Area, Bethel Census Area, Bristol Bay Borough, Dillingham Census Area, Lake and Peninsula Borough, and Wade Hampton Census Area

In addition, estimates are reported for 3 boroughs individually: Fairbanks North Star, the Municipality of Anchorage, and Matanuska-Susitna (Mat-Su).

Data Suppression Guidelines

In this report BRFSS information is suppressed or flagged based on statistical guidelines developed by Alaska's Division of Public Health in the Department of Health and Human Services, which are based upon the national Joint Policy of Variance Estimation and Statistical Reporting Standards for the National Health and Nutrition Examination Survey (NHANES-III) and the Continuing Survey of Food Intake by Individuals (CSFII) Reports. An asterisk is used to indicate that the estimate may lack statistical precision. Estimates are suppressed if the unweighted sample size for the denominator (N) is less than 30, or if the numerator (n) is less than 5. In addition, estimates may be reported but flagged with an asterisk if there is inadequate sample size for normal approximation, or for uncommon or very common event. Finally, if the coefficient of variation is greater than 30%, the estimate is also considered imprecise and is flagged.

Youth Risk Behavior Survey (YRBS)

The YRBS is a systematic survey of high school students investigating behaviors related to the leading causes of mortality, morbidity and social problems among youth. The Centers for Disease Control and Prevention sponsors national and state surveys every two years, most recently in 2013. Data are currently available through 2013.

How YRBS Survey Participants are Selected

The statewide Alaska YRBS is conducted using a two-stage sampling design. 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 2003 through 2013, active parental consent was required for each student participating in the YRBS. On the appointed survey day students completed written questionnaires and returned them in class in unmarked, sealed envelopes.

In addition to the statewide survey, all Alaska school districts have the opportunity to conduct a local survey, which employs the same questionnaire and data analysis methods as the statewide survey. If a district conducts a local survey and one of its classrooms was selected for the statewide survey, additional classrooms will be surveyed as part of the local survey. Districts that conduct a local survey and obtain at least 30 responses receive a district level report based on results of all classrooms surveyed.

Data Weighting and Methods Issues

In a typical YRBS administration, about 1,250 to 1,350 students are surveyed from about 40 to 45 high schools that are scientifically selected to represent all public high schools (excluding boarding schools, alternative schools, correspondence and home study schools, and correctional schools) in Alaska. These results are considered to be representative of Alaska's more than 33,000 high school students in grades 9-12 in traditional public high schools. Data are weighted to reflect the true distribution of Alaska

high school students by gender and grade level, but not by region of the state, since the CDC's sampling method for YRBS does not stratify by region.

Alaska first conducted a statewide YRBS in 1995. Although Alaska participation rates met CDC standards in 1999, this sample did not include Anchorage schools and so the 1999 YRBS data are generally not included in multi-year analyses. To assure statistical validity for weighting, the CDC requires a response rate of at least 60% for the statewide survey. In addition to the 1995 survey, Alaska achieved a representative sample on the statewide survey in 2003, and 2007-2013. Local districts that conduct a survey have received a district-specific report since 2003. Each district has a unique history of participation and achievement of weighted data.

Analyses used for YRBS data are similar to those used for BRFSS. We used chi-square tests in our comparisons between groups of Alaskans, and for trend analyses we used logistic regression models that tested for a statistically significant linear change over time. P-values less than 0.05 indicate that a difference seen between percentages or across years is statistically significant at the 95% confidence level.

School-based surveys do not estimate risk behaviors associated with youth who drop out of school or do not attend school. However, for the first time in 2009, about 1,000 students from 15 alternative high schools in Alaska were surveyed to evaluate and address the health risks of this unique population. This process was repeated in 2011 and 2013 (with 16 alternative high schools). High school students in correctional institutions were also surveyed in 2009, 2011, and 2013. Further information about the Alaska YRBS surveys and health information from those surveys is available at <http://www.hss.state.ak.us/dph/chronic/school/YRBSresults.htm>.

Reporting by Race Group

We report race/ethnicity by whether the survey participant reported being Alaska Native or not. All YRBS survey participants who report being Alaska Native, either alone or in combination with other race groups or Hispanic ethnicity, are categorized in this report as being Alaska Native. We combine all other race groups to report a category "Non-Native". This category includes students who report being White, Hispanic, African American, Asian, Hawaiian or Other Pacific Islander, or who report multiple race groups (except for Alaska Native). Those who did not report a race group are not included in the race group reporting. Reporting by individual race or ethnicity groups is limited by the relatively small number of students participating.

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.

Reporting YRBS by Alaska Public Health Regions

In addition to contributing to the scientific sample of traditional (comprehensive) Alaska high schools in order to obtain statewide prevalence estimates, school districts were given the opportunity to survey their student body starting in 2003 in order to learn more about local adolescent behavior. These ad hoc student surveys have been aggregated to the six Alaska Public Health regions. As this collection of surveys is not conducted with the same scientific rigor as those producing the statewide estimates, the resulting rates should be considered indicators of the existence of specific behaviors but not necessarily the precise prevalence estimates. For the regional estimates, the surveys have been weighted to represent their district or school if participation was 50% or higher of eligible students. Surveys collected where the participation was less than 50% received a weight of one, i.e., representative of the respondent only. All available high school YRBS surveys are used regardless of their source as part of the statewide and/or local samples or type of school. Regional representation varies from a low of 7.6% of students in the Interior region in 2003 to effectively 100% for the Anchorage-Mat-Su region in 2009. Since 2009, the weighted sample represents over three-quarters of high school students from traditional, alternative, and correctional institutions. Additional information about the representation can be found here:

http://www.hss.state.ak.us/instantatlas/yrbss/YRBS_Local_Sample_by_APHR.pdf.

The regional presentation of the YRBS data is intended to provide information about adolescent behaviors at the sub-state level. The data show that adolescent risk behaviors exist in every region, although the magnitude can vary. Statewide estimates for traditional high school students are included for comparison.

Pregnancy Risk Assessment Monitoring System (PRAMS)

PRAMS data were used in this report to document prenatal tobacco use, both cigarettes and smokeless, 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 states and New York City currently participate in PRAMS. PRAMS surveillance currently covers about 78% of all U.S. 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 a series of mailed questionnaires to solicit a response, and since 1997, telephone follow-up has been initiated among those who do not respond to the third mailed request.

In addition to maternal tobacco use, the PRAMS questionnaire addresses such topics as content of prenatal care, maternal use of alcohol, maternal stress, breastfeeding, physical abuse, and other topics. Survey responses are weighted so that reported prevalences accurately describe the population of Alaska women delivering a live-born infant during

the year reported. The weighted response rate was 65% in 2010, 64% in 2011, and 65% in 2012.

Because the questions about smokeless tobacco use changed significantly in 2004, trend data are shown with a break between 1996 to 2003, and 2004 to 2011. Starting in 2004, question wording changed to spit tobacco use and included a specific question about lqmik use, whereas prior to 2004, the question referred only to chew or snuff and used the term “smokeless”. The questions also changed slightly in 2009 and again in 2012, but responses still reflect smokeless tobacco use that includes lqmik.

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

Synar Compliance Data

The Center for Substance Abuse Prevention (CSAP) oversees implementation of the Synar Amendment, which requires states to have laws in place prohibiting the sale and distribution of tobacco products to persons under age 18. (Alaska, Utah, Alabama, and New Jersey have expanded this prohibition to persons under 19.) States are required to collect data on vendor compliance with underage sales laws, and must achieve a maximum sales-to-minors rate of not greater than 20 percent to avoid penalties. The sample from which these data are collected must reflect the distribution of the underage population throughout the state and the distribution of outlets that are accessible to youth throughout the state.

Alaska data on vendor sales of tobacco products to minors are obtained through the Alaska Department of Health and Social Services, Division of Behavioral Health’s Tobacco Enforcement Program. A business license database provided by the Department of Occupational Licensing is used to identify outlets that are accessible to youth. Each summer, eligible, trained, underage youth attempt to purchase tobacco products in the sampled establishments. Undercover Tobacco Enforcement staff monitor these transactions, noting whether sales occurred.

Synar data are reported for the federal fiscal year, October through September. The year reported in this document reflects the federal fiscal year in which the data are used as a planning tool. Therefore, data collected from 2012 are reported for the FY2013 indicator.

