



Youth Alcohol Access, Consumption, and Consequences in Anchorage, Alaska: 2012 Update

Prepared for the Volunteers of America Alaska CMCA Project

by

Marny Rivera, Ph.D. Khristy Parker, B.A. Jennifer McMullen, M.A.

JC 1010

December 10, 2012



Justice Center University of Alaska Anchorage Anchorage, Alaska 99508

All rights reserved. Published by the Justice Center in 2012 (JC #1010)

© 2012 Cook Inlet Tribal Council

Printed in the United States of America

This project was funded by the Volunteers of America Alaska's CMCA project supported by a grant from the Substance Abuse and Mental Health Services Administration (Grant Number 1U79SP013910-01) awarded to Cook Inlet Tribal Council (CITC) and administered by United Way of Anchorage. Points of view in this publication are those of the authors and do not necessarily represent the official position or policies of the Volunteers of America Alaska, United Way of Anchorage, or CITC.







United Way of Anchorage



This document presents recent information and trend analyses on a number of known indicators of youth access to alcohol, attitudes about alcohol consumption, alcohol consumption activities, and the consequences of youth alcohol consumption in Anchorage. Data for this report were collected from various reports on surveys completed by other researchers and governments, and in some cases state government departments provided unpublished analyses and raw data sets. Where possible, data are presented for Anchorage specifically. However, in some cases, data were available only at substate, state, or national levels. Unless otherwise stated, any differences described between groups or geographic areas in this report should not necessarily be considered to have statistical significance.

UNIVERSITY of ALASKA ANCHORAGE

UAA is an EEO/AA employer and educational institution.

Table of Contents

Acknowledgementsv
Executive Summary
Introduction
Youth Access to Alcohol
Compliance Checks
Social Norms and Perceptions
Consumption
Consequences
School-Related Consequences
Risky Behavior and Underage Drinking
Underage Drinking and Driving: Traffic Tickets, Crashes, Injuries and Fatalities
Legal Consequences of Underage Drinking
Alcohol Abuse Requiring Treatment
Health and Safety Consequences of Underage Drinking43
Economic Consequences of Underage Drinking 46
Data Gap Analysis
References
Appendix - Annotated Bibliography of Survey Sources

List of Tables and Figures

Table 1. Method of ASD Traditional School Students Obtaining Alcohol, 2009 and 2011
Table 2. Youth Who Usually Purchased their Alcohol by School Type, 2007, 2009, and 2011 9
Table 3. ASD Youth Who Perceive No or Slight Risk in Consuming One or Two Drinks ofAlcohol Nearly Every Day by Type of School12
Table 4. Alaska Youth Who Perceive No Risk of Self-Harm if They Consume One or TwoDrinks of an Alcoholic Beverage Nearly Every Day, 2009, 2011
Table 5. Estimated Annual Average of Alaska Youth who Perceive Great Risk in Having Five orMore Drinks of an Alcoholic Beverage Once or Twice a Week, 2005-2006, 2007-2008, 2008-2009, and 2009-201014
Table 6. Estimated Annual Average of Alaskans Aged 12 and Older Who Perceive Great Risk inHaving Five or More Drinks of an Alcoholic Beverage Once or Twice a Week by Region, 2006-2008, and 2008-201015
Table 7. U.S. Youth Who Perceive Great Risk of Self-Harm if They Consume Alcohol, 2000-2011
Table 8. Youth in Grades 8 and 10 Who Disapprove or Strongly Disapprove of People WhoConsume Alcohol, 2000-201118
Table 9. Youth in Grade 12 Who Disapprove or Strongly Disapprove of People Age 18 or OlderWho Consume Alcohol, 2000-201119
Table 10. Trends in Per Capita Ethanol Consumption for Alaskans Age 14 Years and Older,2000 to 2010 (Gallons)20
Table 11. Estimated Annual Average of Alaskans Aged 12 and Older Consuming Alcohol in thePast Month by Region, 2006-2008 and 2008-201021
Table 12. Estimated Annual Average of Alaska Youth Aged 12 to 20 Consuming Alcohol in thePast Month by Region, 2006- 2008 and 2008-201022
Table 13. Trends in Reported Alcohol Use, by Age Group, Alaska 23
Table 14. Trends in Percentage of Alaska Youth Ages 18 to 20 Consuming Alcohol, 2005-2010
Table 15. Trends in Alcohol Use Among Youth in ASD Traditional Schools by Gender, 1995 to2011
Table 16. Alcohol Consumption Among Youth in ASD by Type of High School, 2007, 2009,2011

Table 17. Reason for Suspension or Expulsion in Alaska Schools, 2005 to 2011
Table 18. Type of Suspension or Expulsion in Municipality of Anchorage Resulting fromSubstance Use, 2005 to 201128
Table 19. Reason for Suspension or Expulsion in Alaska and the Municipality of Anchorage by School Year, 2005 to 2011
Table 20. Substance Use Suspension and Expulsions in Municipality of Anchorage by Race,2005 to 201130
Table 21. Anchorage School District Prime for Life Participants by Type of School and Substance Used, 2009 to 2010
Table 22. ASD Youth Who Participated in Risk Behavior after Consuming Alcohol or Drugs byType of School, 2009 and 201132
Table 23. ASD Youth Who Consumed Alcohol or Used Drugs before Last Sexual Intercourse,1995 to 2011
Table 24. ASD Youth Who Drove after Drinking or Who Drove with a Drinking Driver in the Past 30 Days, 1995 to 2011
Table 25. Tickets Issued to Alaskans Who Were in Traffic Crashes by Age and Location, 35
Table 26. Tickets Issued to Anchorage Youth Ages 20 and Younger Who Were in Crashes by Sex, 2000 to 2009
Table 27. Injuries Caused by Anchorage Youth Ages 20 and Younger Who Were Responsiblefor Crashes and Were Issued Alcohol-Related DWI Tickets, 2000 to 2009
Table 28. Fatal Accidents Involving Drivers with Blood Alcohol Content of .08g/dl or Greater byAge, 2005; 2010
Table 29. Total Number of Charges among Alaska Youth Age 20 and Younger, 2000 to 2008. 38
Table 30. Prosecution and Dismissal of Minor Consuming Charges, 2009-2012
Table 31. Prosecution and Dismissal of Charges Filed Against Liquor License Holders, 2009-2012
Table 32. Alcohol Abuse Treatment Admissions in Alaska by Age Group, 2007 to 2011
Table 33. Number of Alcohol-Related Injuries Requiring Hospitalization for Alaskans Ages 20and Under by Region of Residence, 2001 to 201044
Table 34. Total Number of Fetal Alcohol Spectrum Disorder Births in Alaska by Maternal Age,1996-201144
Table 35. Total Number of Alcohol-Induced Deaths for All Ages in Anchorage, 2001 to 2005,2005 to 200945

Table 36. Total Number of Alcohol-Induced Deaths in Alaska by Age, Race, and Sex, 2001-2005 and 2005-2009 45
Table 37. Total Cost of Underage Drinking in the Five States with the Highest Cost-Per-Youth,2010 (in Millions of Dollars)47
Table 38. Cost of Underage Drinking in the Five States with the Highest Cost-per-Youth by Problem, 2010 (in Millions of Dollars)
Figure 1. Compliance Rate for Anchorage and Alaska (excluding MOA), 2005-2012 10
Figure 2. Map of Anchorage Alcohol License Holder Locations and Local Schools 11
Figure 3. Alaska Youth Who Perceive that their Parents Would Strongly Disapprove of Consuming One or More Drinks of an Alcoholic Beverage Nearly Every Day, 2005-2007 and 2008-2010
Figure 4. U.S. Youth Who Perceive that their Parents Would Strongly Disapprove of Consuming One or More Drinks of an Alcoholic Beverage Nearly Every Day, 2005-2007 and 2008-2010. 16
Figure 5. Trend in the Total Number of Minor Consuming Charges among Underage Youth in Alaska, 2002 to 2008
Figure 6. Trend in the Total Number of Charges among Underage Youth in Alaska by Selected Charge, 2002 to 2008
Figure 7. Statewide Alcohol-Related Injuries Requiring Hospitalization for Alaskans Ages 20 and under, 2000 to 2010 (per 100,000 population)
Figure 8. Total Cost of Underage Drinking per Year, per Youth, in the Five States with the Highest Cost-per-Youth, 2010

Acknowledgements

We thank the Volunteers of America Alaska for contracting with the Justice Center to evaluate their Communities Mobilizing for Change in Alcohol program and for the opportunity to compile this report containing indicators of underage drinking and associated consequences. This report was funded by a grant that was awarded to Volunteers of America Alaska by the Substance Abuse and Mental Health Services Administration (SAMHSA). Many thanks to Cheryl Daniels for her work directing the VOA Alaska CMCA project.

We are grateful to James Marcus of the Alaska Department of Transportation and Public Facilities for compiling the database on crashes in Alaska and to Safe and Drug Free Schools, and Ambrosia Bowlus of the Alaska Trauma Registry, for providing us with data. We also offer special thanks to Alan McKelvie and the Alaska Justice Statistical Analysis Center for providing court data, and to Gabriel Garcia and the Anchorage United for Youth evaluation team for allowing us to use their data on youth alcohol access. We also appreciate the assistance Todd Brocious and Kiara Alexander in the Alaska Department of Education and Early Development for their assistance in obtaining student disciplinary statistics. Much gratitude is extended to Pradip Muhuri and Art Hughes at SAMHSA for their assistance in compiling Alaska-specific statistics for this report and providing information about recent changes to the specific reporting regions in Alaska. Without these people, much of the following information would not have been available for publication.

Much of the information in this report was taken or modified from several reports and surveys such as the State (Alaska) Epidemiologic Profile on Substance Use, Abuse, and Dependency; the Youth Risk Behavior Survey; the National Survey on Drug Use and Health; and the Monitoring the Future survey. We also referred to a number of online databases and statistics for this report, as well as to needs assessments that have been completed in Alaska. We would like to thank these parties for making their information available for this report.

Executive Summary

In 2010 a comprehensive report identifying indicators of youth alcohol access, consumption, and consequences in Anchorage and/or Alaska was made available. The purpose of that original indicators report was to provide a baseline description of the underage drinking problem prior to the implementation of CMCA efforts. This updated report seeks to document the current underage drinking problem in Anchorage and/or Alaska and assess changes to the problem that have taken place over time. Where possible, attempts have been made to compare trends that have taken place in Anchorage to those in Alaska and/or nationwide. It is difficult to get a clear picture of how the underage drinking problem has changed over time and the ways in which the problem is similar or different in Anchorage relative to Alaska statewide. The difficulty examining trends over time between Anchorage and Alaska stems from different timelines employed by the various sources of data compiled in this report, different ways of designating age groups, and in most cases the absence of available data specific to Anchorage.

The indicators in this report have been organized into categories of underage access to alcohol, social norms, and perceptions associated with underage drinking, alcohol consumption patterns, and consequences of underage drinking. Consequences examined include school-related consequences of underage drinking, risky behavior associated with underage drinking, and legal consequences of underage drinking. Indicators describing alcohol abuse by people under 21 years of age requiring substance abuse treatment, health and safety consequences of underage drinking, and economic consequences of underage drinking have also been reported. Overall highlights from the report are summarized in this Executive Summary. In addition to overall highlights, indicators of the Anchorage underage drinking problem and changes in the problem over time are highlighted.

Youth Access to Alcohol

- Of students who consumed alcohol in the past 30 days, the majority of students reported in 2011 obtaining the alcohol from someone else (44%) or giving money to someone to purchase it for them (22%). Few students bought alcohol from a licensed establishment (3.5%). This pattern is similar to methods for accessing alcohol students reported in 2009.
- The percentage of students who reported purchasing their own alcohol increased between 2007 and 2011 for Anchorage School District (ASD) traditional and alternative schools as well as across Alaska. The percentage of ASD traditional students who reported purchasing their own alcohol was lower than students across Alaska in 2007 and 2009, but in 2011 a larger percentage of ASD traditional students reported purchasing their own alcohol than did all of Alaska.
- In Anchorage and Alaska, the percent of liquor licensees who passed compliance checks (did not sell alcohol to underage informants) ranged from 85% to 96% between 2005 and 2012. Rates of compliance have increased slightly between 2009 and 2012 in Anchorage and have declined slightly for the rest of Alaska excluding Anchorage.

Social Norms and Perceptions

- Just over one-third of youth in traditional and alternative schools in the ASD and across Alaska reported no or slight risk in consuming one or two drinks of alcohol nearly every day in 2011. This is similar to perceptions reported in 2009.
- The percentage of Alaska Native youth who reported perceiving no risk of self-harm with regular alcohol consumption decreased by four percent from 2009 to 2011 in ASD traditional schools. For the same time period, the percentage of Alaska Native youth statewide reporting no perceived risk of self-harm with regular alcohol consumption increased by four percent.
- The percentage of Alaskan youth ages 12 to 17 and of adults 18 to 25 years old who reported great risk in having five or more drinks of an alcoholic beverage (binge drinking) once or twice a week increased slightly between 2005-6 and 2008-9. Alaskans 12 to 17 years reported perceiving great risk in weekly binge drinking at rates higher than the national average from 2007-2008 to 2009-2010. Alaskans 18 to 25 years reported perceiving great risk in weekly binge drinking average for all reporting years from 2005-2006 to 2009-2010.

Consumption

- The percentage of Alaskans aged 18 to 20 who reported binge alcohol use decreased from 22% in 2005-7 to 15% in 2008-10 and was lower than the national average of 18% in 2011.
- The percentage of Alaskans aged 18 to 20 who reported current (past month) alcohol use decreased from 42% in 2005-7 to 29% in 2008-10 and was lower than the national average of 57% in 2011.
- Among students in ASD, every indicator of alcohol consumption for both males and females decreased from 1995 to 2011. Improved indicators of alcohol consumption included the following: ever consumed alcohol in lifetime, first consumed alcohol before age 13, consumed alcohol in the past 30 days, binge drinking in the past 30 days, and consumed alcohol on school property in the past 30 days. For 2011, every consumption indicator for students Alaska statewide and in almost every indicator for ASD the percentage of male and female students reporting alcohol consumption was similar to or lower than the national average. In every indicator for males and most indicators for females, the percentage of ASD students reporting alcohol consumption was higher than the percentages reported for Alaska statewide in 2011.

Consequences

School-related consequences

- Since 2005, more students in Anchorage have been suspended and expelled for drug use and other behavior than for alcohol consumption.
- Among ASD students who opted to participate in the Prime for Life intervention program for first time alcohol and drug abuse offenders in 2009 and the first half of 2010, more students were caught with marijuana (67% in 2009 and 2010) than alcohol (18% in 2009 and 16% in 2010).

Risky behavior and underage drinking

- From 2009 to 2011, the percentage of students who reported being a passenger in the car of a drinking driver or drove after drinking within the past year decreased slightly in ASD traditional schools and decreased across Alaska.
- The percentage of students who reported consuming alcohol or drugs before the last time they had intercourse increased between 2009 and 2011 for ASD traditional schools and in 2011 was slightly greater than the percentage of Alaska students who reported drinking before intercourse.
- In 2011, 19% of female and male ASD students reported consuming alcohol or drugs before their most recent experience of sexual intercourse. The percentage of female ASD students was higher than the percentage of female students both in Alaska and nationwide who reported consuming alcohol or drugs before recently having sexual intercourse. The percentage of male ASD students was lower than the percentage of male students both in Alaska and nationwide who reported consuming alcohol or drugs before recently having sexual intercourse.

Underage drinking and driving: Traffic tickets, crashes, injuries, and fatalities

- Twelve percent of all alcohol-related driving while intoxicated tickets (DWI) given to drivers involved in crashes in Anchorage from 2000 to 2009 were given to youth who were 20 years old or younger.
- From 2000 to 2009, Anchorage youth ages 20 and younger who were drivers of the principle vehicles involved in crashes in which they were issued alcohol-related DWI tickets caused a total of 174 injuries.
- Between 2005 and 2010 the percentage of fatal crashes involving 16 to 20 year old drivers with blood alcohol content of .08g/dl or greater decreased slightly in Alaska and decreased nationwide.

Legal consequences of underage drinking

- From 2000 to 2008 there were 30,998 alcohol-related charges given to youth ages 20 and younger in Alaska. Of these charges, 93% were minor consuming charges.
- In Alaska in 2008 there were 3,254 minor consuming charges filed. This was a larger number of charges than any other year since 2002.
- The number of minor consuming charges filed in both Anchorage and Alaska statewide has decreased annually from 2009 to 2012. The dismissal rate for minor consuming charges has also decreased each year.
- In 2008, 267 charges were filed against Alaskan youth for operating vehicles after consuming alcohol. Charges for youth operating vehicles after consuming alcohol have increased each year since 2002 when 63 charges were filed.

Alcohol abuse requiring treatment

• In 2011 among people less than 21 years of age there were 117 admissions to treatment for alcohol abuse only and 178 admissions to treatment for alcohol with a secondary substance of abuse in Alaska.

• The percentage of people under 21 years of age admitted to treatment for alcohol abuse only or alcohol with secondary substance abuse in Alaska decreased between 2007 and 2011.

Health and safety consequences of underage drinking

- The rate of alcohol-related injuries requiring hospitalization for Alaskans aged 20 and under, per 100,000 population, declined from a high of 99.2 in 2004 to a low of 51.5 in 2010.
- The number of alcohol-related injuries requiring hospitalization decreased for Alaskans ages 20 and under in Anchorage and across Alaska between 2001 and 2010.
- Alaska mothers with a maternal age of 15 to 19 had Fetal Alcohol Spectrum Disorder births at a higher rate than their representation among all live births for the years 1996 to 2011.
- For the years 2001-2005 the percent of alcohol-induced deaths out of all deaths was lower for Anchorage than for other areas in Alaska. For the years 2005-2009 the percent of alcohol-induced deaths out of all deaths increased slightly in Anchorage but decreased in all other areas.
- In Alaska from 2001-2005, there were 20 alcohol-induced deaths among Alaskans aged 0 to 24 years. Eleven of the alcohol-induced deaths among Alaskans 0 to 24 years involved Native males, five involved White males, three involved Alaska Native females, and one involved a Black female.
- For Alaskans aged 0 to 24, the number of alcohol-induced deaths decreased between the five year periods 2001-2005 and 2005-2009. For Alaskans aged 25 and older, the number of alcohol-induced deaths increased between the five year periods 2001-2005 and 2005-2009.

Economic consequences of underage drinking

- In 2010, the average cost of underage drinking per youth in the U.S. was \$2,070.00. Alaska had the highest cost of underage drinking per youth in 2010 with a cost per youth of \$4,378.00.
- In Alaska in 2010 it was estimated that nearly \$155 million was spent on youth violence that resulted from underage drinking, \$91 million on youth traffic crashes, and over \$25 million on youth alcohol treatment.

Anchorage Trends

In addition to the highlights presented above, the following trends in the underage drinking problem can be seen in Anchorage.

Access

- 2009-2011 percentage who gave money to someone to purchase alcohol came down but percent that accessed by someone giving it to them increased
- The percentage of youth who reported purchasing their alcohol has increased slightly in traditional and alternative schools in the Anchorage School District (2007-2011).
- The percentage of licensees who passed compliance checks has increased slightly each year since 2009.

Social Norms and Perceptions

• From 2006-2008 to 2008-2010, the percentage of youth in Anchorage who perceived binge drinking as a great risk increased five percent.

Consumption

• A comparison of the 2007, 2009, and 2011 ASD YRBS survey data indicates that every indicator of alcohol consumption for youth in ASD traditional high schools is lower in 2011 than in 2007. Three of five indicators show reduced consumption for youth in ASD alternative high schools between 2007 and 2011. Four out of five indicators show reduced consumption for youth in McLaughlin High School between 2007 and 2009 (the last survey year with sufficient sample size).

Consequences

Risky behavior and underage drinking

• ASD YRBS survey data indicates that fewer youth in traditional schools drove after drinking or were a passenger with a drinking driver in 2011 relative to 2009, but more students reported having intercourse after consuming alcohol or drugs. In ASD alternative high schools, between 2009 and 2011 there was an increase in students who reported driving after drinking and being a passenger with a drinking driver, but a decrease in reported intercourse after consuming alcohol or drugs.

Legal consequences of underage drinking

• The number of minor consuming charges filed in Anchorage has decreased annually from 2009 to 2012. The dismissal rate for minor consuming charges has also decreased each year.

Health and safety consequences of underage drinking

- The percent of alcohol-induced deaths among people of all ages in Anchorage increased by one percent between 2001-2005 and 2005-2009.
- The number of alcohol-induced deaths among people in Anchorage under 24 years of age decreased from 20 in 2001-2005 to 12 in 2005-2009.

Introduction

Underage drinking is a serious problem in Anchorage and Alaska statewide that has been documented extensively. The data provided in this report were originally compiled to provide a baseline depicting the problem that existed in 2009. This updated report documents changes in the underage drinking problem and associated consequences that have taken place in recent years. Indicators available to depict different aspects of the underage drinking problem include access to alcohol, norms, and perceptions surrounding alcohol use, alcohol consumption patterns, and consequences of underage drinking. Data on these indicators have been collected in a variety of ways from multiple sources (see References and the Appendix) and with different strengths and limitations. However, this report identifying indicators provides a comprehensive updated compilation of indicators documenting the underage drinking problem that exists in Anchorage and Alaska. While **comprehensive**, this report is admittedly not exhaustive of every possible indicator directly or indirectly associated with the underage drinking problem. In some cases, existing data may have been unintentionally excluded. This report closes with a data gap analysis identifying additional indicators of the problem that are not currently available, or are not currently available for Anchorage youth.

Data documenting underage access to alcohol includes survey data indicating the method used by youth for obtaining the alcohol they consumed in the last 30 days. Survey data showing the percentage of youth in various Anchorage School District (ASD) school types (traditional, alternative, and McLaughlin Youth Center) who purchased the alcohol they consumed has also been provided. Next, this report summarizes data indicating retail access to alcohol. This data is collected by the Alcohol Beverage Control Board and covers compliance and non-compliance with laws prohibiting sales of alcohol to people less than 21 years of age.

Access to and availability of alcohol contributes to the underage drinking problem, as does the existence of social norms and perceptions that underage drinking poses few risks. Social norms and perceptions are collected via survey and ask youth to rate the amount of risk associated with infrequent, regular, and binge drinking. This data is available for Anchorage and can be examined within various school types, genders, and races/ethnicities. Some of the data has been collected for several years and allows for the examination of trends over time.

Data indicating social norms and perceptions associated with alcohol use, as well as youth perceptions of their parents' disapproval of their child's underage drinking, is available for youth in Anchorage and Alaska.

Indicators of alcohol consumption have also been collected by other surveys and are presented in this report. One indicator reports in gallons the amount of ethanol alcohol consumed by Alaskans aged 14 and older. Another indicator estimates the extent of binge drinking among Alaskans 12 and older and is broken down by region. While the regional data on gallons of alcohol consumption for Alaskans aged 14 and older is available over time, data regarding consumption patterns among Alaskans under 21 cannot be examined separately. However, <u>self-reported</u> rates of current alcohol use, binge drinking, alcohol dependency or abuse, and alcohol use needing treatment is available and can be examined for the under 21 age group. Survey data is also available for ASD students and documents the percentage of students reporting any lifetime alcohol consumption, first consumption before the age of 13, alcohol consumption in the past 30

days, binge drinking in the past 30 days, and consumption of alcohol on school property in the past 30 days. This data has been broken down by gender as well as type of school (traditional, alternative, and McLaughlin Youth Center).

A variety of negative consequences associated directly and indirectly with underage alcohol consumption exists, and an extensive collection of indicators describing these consequences for youth in Alaska and/or Anchorage has been compiled in this report. School-related indicators include suspensions and expulsions associated with substance use in Anchorage and Alaska, and this data has been broken down by race/ethnicity. Data is also presented on students who opted into the Prime for Life program, including the type of school they attended and substance used. Survey data is available for ASD students on risky behavior engaged in by youth after consuming alcohol such as sexual intercourse and driving with a drinking driver. This data has been broken down by gender and multiple years of data have been provided. Several alcoholrelated traffic indicators are also presented in this report, including the number of tickets issued to youth 20 years and younger involved in traffic crashes, with the data broken down by gender. In addition, the frequency of injuries caused by youth responsible for traffic crashes and who were issued DWI tickets as well as the number of fatal accidents involving youth and adults driving with blood alcohol levels over the legal limit are provided. Data on minor consuming charges for Alaska youth and trends in alcohol-related charges over time have been presented as well. The frequency of alcohol-related substance abuse treatment admissions for various age groups under the legal drinking age has also been summarized in this report. Other consequences associated with underage alcohol consumption available in Alaska and/or Anchorage and presented in this report include injuries and hospitalizations, FASD births among teen mothers, and financial costs related to underage drinking.

This comprehensive compilation of indicators documenting the underage drinking problem in Anchorage and Alaska is limited by differences between the different data sources. For instance, in some cases data were only available for a recent year while in other cases data for multiple years are available. Various reporting organizations report data on different timelines or collapse multiple years of data hampering annual comparisons. For instance, some data are compiled every other year while other data are compiled annually. Data sources also differ in the way they designate age groups. As an example, some data sources aggregated 12 to 17 year olds as a group while other data sources aggregated 12 to 20 year olds. Finally, some data sources allow for comparisons between Anchorage, Alaska, and the nation, whereas other data sources do not provide data at each level. While differences in data formatting and reporting make some comparisons among the different data sources difficult, taken as whole the various indicators present a comprehensive summary of the underage drinking problem in Anchorage and Alaska.

Youth Access to Alcohol

Within the Anchorage School District (ASD), 65 percent of youth reported that they had not consumed alcohol in the 30 days prior to being surveyed for the 2009 Youth Risk Behavior Survey (YRBS). In 2011, that number had increased to 66 percent. Among youth who reported they had consumed alcohol in 2009, the majority (35%) obtained their alcohol by giving someone money to purchase it for them. In 2011 only 22 percent of youth reported they gave someone money to purchase alcohol for them. Twenty-nine percent of youth reported that someone had given the alcohol to them in 2009 and this increased to 44 percent in 2011. In 2009, 18 percent of youth reported obtaining alcohol through other means while in 2011 the number of youth reporting other sources of alcohol increased to 22 percent. In 2009, 10 percent of youth had purchased their alcohol themselves at a store, gas station, restaurant, bar or club, or at a public event. In 2011, ten percent of respondents said they stole their alcohol and four percent said they bought it at a retail outlet (Table 1).

Table 1. Method of ASD Traditional School Students Obtaining Alcohol, 2009 and 2011

	Colum					
_	20	09	20	11		
Way of accessing alcohol	All students	Students who drank	All students	Students who drank		
Way of accessing alcohol	%	%	%	%		
Did not drink	65.1 %	%	65.7 %	%		
Gave money to someone		35.4		21.8		
Someone gave it to me		29.1		44.0		
Other		18.4		21.1		
Took it from store/family		9.9		9.5		
Bought in store/gas station		3.7		3.5		
Bought at restaurant/bar/club		2.8				
Bought at public event		0.6				

Column percents

Source of data: Anchorage United for Youth, 2012

Weighted percent

The percentage of youth who reported purchasing their alcohol has increased slightly statewide and within traditional and alternative schools in the Anchorage School District. From 2007 to 2011, the percentage of youth who purchased their alcohol increased by one percent in Alaska schools overall (from 2.0 to 2.9%), two percent in ASD traditional schools (from 1.5% to 3.5%), and over three percent in ASD alternative schools (from 3.7% to 7.0%). In 2011, youth in ASD alternative schools reported purchasing alcohol at twice the rate of ASD traditional school students and more than twice the rate of public students statewide (Table 2).

Table 2. Youth Who Usually Purchased their Alcohol by School Type, 2007, 2009, and 2011

Purchased alcohol	2007	2009	2011
ASD Traditional	1.5 %	2.4 %	3.5 %
ASD Alternative	3.7	6.4	7.0
ASD McLaughlin	3.8		
Alaska	2.0	2.8	2.9

Sources of data: Kerosky, Chaney, and Kendziora, 2008; Kerosky and Turner, 2010; and Alaska Department of Health and Social Services, 2007; Alaska Department of Health and Social Services and Alaska Department of Education and Early Development, 2012

Traditional school responses weighted by enrollments of sex within grade. "--" indicates that sample size has fallen below 100 and results are suppressed to insure the integrity and confidentiality of the student data.

Compliance Checks

Data from the Alaska Beverage Control Board (ABC) indicate that for the state of Alaska (excluding the Municipality of Anchorage), 85 percent of liquor licensees passed compliance checks in calendar year 2005 and 85 percent passed in 2011 and 2012 (through September). The percentage of licensees in Alaska who passed compliance checks decreased from 2005 to a low of 75 percent in 2006, and then increased until 2009 when 96 percent of licensees passed compliance checks. Since 2009, the percent of licensees in Alaska who passed compliance checks has decreased slightly each year (Figure 1). Though the ABC Board provided compliance check data for analysis, the ABC Board could not independently verify the results presented here, because they compute compliance rates for state fiscal, rather than calendar, years.

For the Municipality of Anchorage, 90 percent of liquor licensees passed compliance checks in 2005 and 89 percent passed in 2012 (through September). The percentage of licensees in MOA who passed compliance checks decreased from 2005 to a low of 72 percent in 2006. The percentage of licensees who passed compliance checks then increased to 87 percent in 2008, dipped to 85 percent in 2009 and has increased slightly each year since then. A map displaying alcohol license holders in Anchorage and local schools is provided in Figure 2.

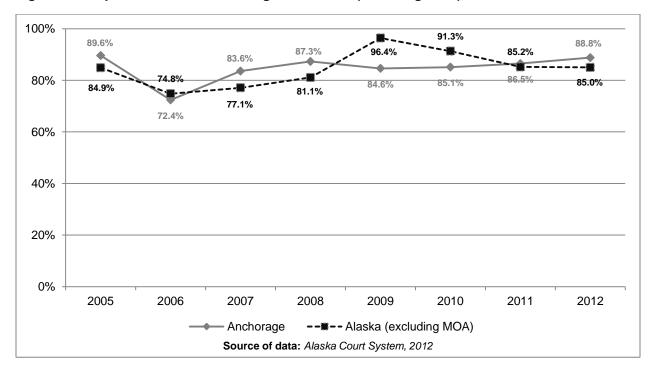
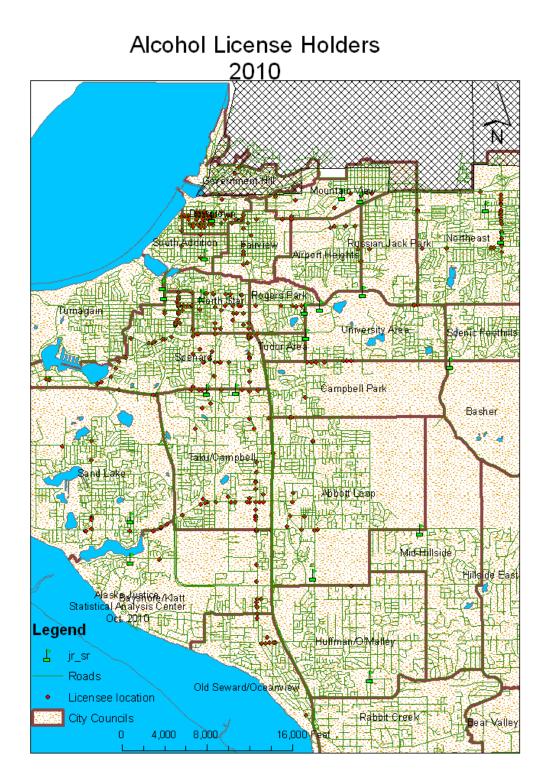


Figure 1. Compliance Rate for Anchorage and Alaska (excluding MOA), 2005-2012

Figure 2. Map of Anchorage Alcohol License Holder Locations and Local Schools



Social Norms and Perceptions

In 2009, youth in traditional and alternative schools within the Anchorage School District (ASD) reported their perceptions of risk in consuming alcohol daily at rates equal to the state average. Perceptions of drinking alcohol as a low-risk behavior are generally associated with greater rates of consumption. Just over one third of students (35%) in traditional and alternative ASD high schools, as well as across all Alaska high schools, reported no or slight risk in consuming one or two drinks of alcohol nearly every day. A higher percentage of youth in McLaughlin Youth Center (43%) reported no or a slight risk of consuming one or two drinks of alcohol nearly every day. Publicly available data summarizing student perceptions cannot easily be compared from 2007 to 2009 because in 2009 the categories of slight and no risk were collapsed into a single response category, whereas reports of 2007 data present no risk as a stand-alone response category. The perceived risk of daily alcohol consumption increased slightly among ASD students in alternative high schools (1.5%), and this is a good trend, but decreased among ASD students in traditional schools (-0.2%) and students statewide (-0.7%) between 2009 and 2011 (Table 3). Decreased perception of risk is not a desirable trend.

Table 3. ASD Youth Who Perceive No or Slight Risk in Consuming One or Two Drinks of AlcoholNearly Every Day by Type of School

	No risk 2007	Slight/no risk 2009	Slight/no risk 2011			
ASD Traditional	13.9 %	34.7 %	34.5 %			
ASD Alternative	16.0	34.5	36.0			
ASD McLaughlin	11.8	43.4				
Alaska	NA	34.7	34.0			

Sources of data: Kerosky, Chaney, and Kendziora, 2008; Kerosky and Turner, 2010; Alaska Department of Health and Social Services and Alaska Department of Education and Early Development, 2012

Traditional school responses rated for combined enrollment of sex within grade.

"--" indicates that sample size has fallen below 100 and results are suppressed to insure the integrity and confidentiality of the student data.

The percent of Alaska youth who reported perceiving no risk of self-harm if they consumed one or two drinks of alcoholic beverage nearly every day decreased from 2009 to 2011. Statewide, youth reported perceptions of self-harm with regular alcohol use decreased by nearly two percent and in ASD alternative schools by nearly one percent. The 2011 YRBS data show that about the same percentage of female youth statewide reported perceiving risk of self-harm through regular alcohol use (7%) as ASD traditional schools, while ASD alternative schools had the lowest percentage (6%). Among male youth in 2011, ASD alternative schools had the highest percentage who reported perceiving no risk of self-harm through regular alcohol use (16%), followed by ASD traditional schools (14%), and statewide with the lowest percentage (13%). It is important to note that in general, males are less likely than females to perceive risk of self-harm if they consume one or two drinks of an alcoholic beverage nearly every day (Table 4).

Looking at this data by race allows us to identify specific cultures and communities that may benefit from outreach and education efforts. In 2011, White youth in ASD traditional schools (12%) and Alaska Native youth statewide (13%) were the youth groups with the largest percentage that reported perceiving no risk of self-harm with regular alcohol use. The percentage of white youth who perceived risk of self-harm through regular alcohol use in ASD traditional schools increased by three percent (from 9% to 12%), decreased by three percent in ASD alternative schools (from 13% to 10%), and decreased four percent statewide (from 13% to 9%) from 2009 to 2011. The percentage of Alaska Native youth who reported perceiving no risk of self-harm with regular alcohol consumption decreased significantly from 2009 to 2011 (-4%) in ASD traditional schools. However, the inverse is true of Alaska Native youth statewide where the percentage of increased (4%) from 2009 to 2011 from 9 percent to 13 percent.

Table 4. Alaska Youth Who Perceive No Risk of Self-Harm if They Consume One or Two Drinks of an Alcoholic Beverage Nearly Every Day, 2009, 2011

		2009		2011					
=	ASD	ASD		ASD Traditional A	SD Alternative				
	Traditional	Alternative	Alaska	School	School	Alaska			
Student Gender									
Female	7.3 %	6.4 %	6.4 %	7.2 %	6.1 %	7.3 %			
Male	14.4	17.1	17.1	14.4	16.3	13.4			
Student Race									
Alaska Native	13.3 %	9.3 %	9.3 %	9.4 %	%	13.4 %			
Asian				8.3					
Black (Non-Hispanic)									
Hispanic/Latino	11.7			9.4		12.1			
White (Non-Hispanic)	9.3	12.6	12.6	12.2	9.8	8.8			
Total Overall	11.0 %	11.9 %	11.9 %	10.9 %	11.1 %	10.5 %			

Column percents

Source of data: Alaska Department of Health and Social Services, 2009; Alaska Department of Health and Social Services and Alaska Department of Education and Early Development, 2012

Missing data indicate less than 100 youth in the subgroup.

Results from the National Survey on Drug Use and Health (NSDUH) present the percentage of youth ages 12 to 17 in both Alaska and the U.S. overall who perceive great risk in having five or more drinks of an alcoholic beverage once or twice a week (binge drinking). In 2005-2006, 35 percent of Alaskan youth ages 12 to 17 perceived great risk in this behavior, versus 28 percent of Alaskans ages 18 to 25 years. The 2009-2010 NSDUH shows that an increased percentage of Alaska youth aged 12 to 17 years perceive great risk in binge drinking (42%), an increase of seven percent since the 2005-2006 survey. In 2009-2010, more youth aged 18 to 25 reported perceiving great risk in binge drinking (31%), an increase of three percent from 2005-2006.

In 2005-2006, Alaskans in both age groups perceived great risk in binge drinking at rates lower than the national average. A smaller percentage of Alaskans 12 to 17 years old (35%) than 12 to 17 year olds in the U.S. (39%), reported great risk in having five or more alcohol drinks weekly. A smaller percentage of 18 to 25 year old Alaskans (28%) than 18 to 25 year olds in the U.S. (33%) reported great risk in weekly binge drinking. By 2009-2010, the percentage of Alaskan youth aged 12 to 17 years reporting great risk in binge drinking (42%) was higher than the U.S. average (40%). Unfortunately, a smaller percentage of Alaskan youth aged 18 to 25 years reported perceiving great risk in binge drinking (31%) than the U.S. average (33%), although the gap appears to be closing slightly each year (Table 6).

Table 5. Estimated Annual Average of Alaska Youth who Perceive Great Risk in Having Five or More Drinks of an Alcoholic Beverage Once or Twice a Week, 2005-2006, 2007-2008, 2008-2009, and 2009-2010

		12 to 17	7 years	18 to 25 years						
Region	2005-2006	2007-2008	2008-2009	2009-2010	2005-2006	2007-2008	2008-2009	2009-2010		
Alaska	34.9 %	41.7 %	42.7 %	42.3 %	27.9 %	28.3 %	29.8 %	31.1 %		
Total U.S.	38.9	40.0	40.2	40.0	32.7	33.2	33.3	33.4		

Source of data: SAMHSA, 2006, 2011, and 2012a.

Estimates based on survey-weighted hierarchical Bayes estimation approach.

The NSDUH further indicates that there may be slight differences in Alaskans' perceptions of great risk in binge drinking depending on the region in which they live using three-year averages¹. Alaskans living in the Anchorage region were most likely of all Alaskans to perceive great risk in having five or more drinks of an alcoholic beverage once or twice a week (binge drinking). From the period of 2006-2008 to 2008-2010, the percentage of youth in Anchorage who perceived binge drinking as a great risk increased five percent. As of 2008-2010, all regions in Alaska reflected higher percentages of people perceiving the dangers of binge drinking than in the prior time period (Table 6). The national average was higher than all Alaskan regions in 2006-2008. This trend continues in the 2008-2010 period, with the exception of Anchorage, which had a higher percentage of people reporting that they perceived great risk in binge drinking behaviors.

¹ The NSDUH reporting regions for Alaska's substate regions changed in the 2008-2010 reporting period. This change was instigated at the request of the Alaska Department of Health and Social Services. SAMHSA has provided statistics for the 2006-2008 time period to provide for comparability, but data trends may not be tracked prior to the 2006-2008 time period.

Table 6. Estimated Annual Average of Alaskans Aged 12 and Older Who Perceive Great Risk in Having Five or More Drinks of an Alcoholic Beverage Once or Twice a Week by Region, 2006-2008, and 2008-2010

	Column Percents					
Region	2006-2008	2008-2010				
Anchorage	40.3 %	44.6 %				
Northern	38.1	39.8				
South Central	36.1	38.4				
Southeast	38.3	40.8				
Alaska Average	38.5	41.5				
National Average	41.8	42.1				

Source of data: SAMHSA, Center for Behavioral Statistics and Quality, 2012b

Regions:

Anchorage: Borough and Municipality of Anchorage

Southeast: Haines Borough, Juneau City and Borough, Ketchikan Gateway Borough, Prince of Wales-Outer Ketchikan Census Area, Sitka City and Borough, Skagway-Hoonah-Angoon Census Area, Wrangell-Petersburg Census Area, and Yakutat City and Borough.

The 2008-2010 NSDUH data show that 90 percent of 12 to 17 year old American youth (which includes Alaskan youth) believe that their parents would strongly disapprove of them consuming one or more drinks of an alcoholic beverage nearly every day – an increase of one percent since 2005-2007. Similarly, 91 percent of Alaska youth aged 12 to 17 years old believe that their parents would strongly disapprove of their regular alcohol consumption – a decrease of less than one percent.

The percentage of youth believing their parents would strongly disapprove of nearly daily alcohol consumption appears to decrease as age increases. In Alaska 2008-2010, the percentage ranged from 93 percent among 12-13 year olds and 14-15 year olds, to 87 percent among 16-17 year olds. It should be noted that overall, with the exception of 12-13 year olds, Alaska youth reported that their parents would strongly disapprove of them consuming alcohol on a regular basis (Figure 3). In the U.S. for the same time period, the percentage ranged from 94 percent among 12-13 year olds and 91 percent among 14-15 year olds, to 87 percent among 16-17 year olds (Figure 4).

Northern: Bethel Census Area, Denali Borough, Fairbanks North Star Borough, Nome Census Area, North Slope Borough, Northwest Arctic Borough, Southeast Fairbanks Census Area, Wade Hampton Census Area, and Yukon-Koyukuk Census Area South Central: Aleutians East Borough, Aleutians West Census Area, Bristol Bay Borough, Dillingham Census Area, Keani Peninsula Borough, Kodiak Island Borough, Lake & Peninsula Borough, Matanuska-Susitna Borough, and Valdez-Cordova Census Area

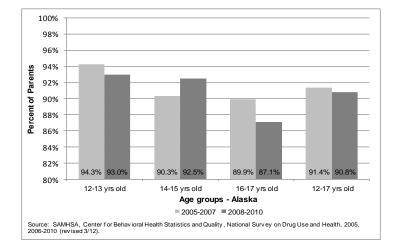
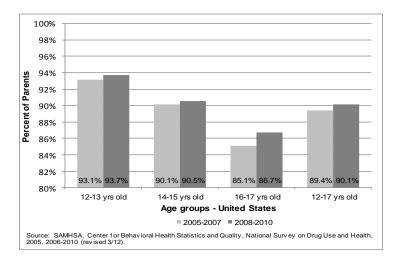


Figure 3. Alaska Youth Who Perceive that their Parents Would Strongly Disapprove of Consuming One or More Drinks of an Alcoholic Beverage Nearly Every Day, 2005-2007 and 2008-2010

Figure 4. U.S. Youth Who Perceive that their Parents Would Strongly Disapprove of Consuming One or More Drinks of an Alcoholic Beverage Nearly Every Day, 2005-2007 and 2008-2010



Although Alaska does not participate in the Monitoring the Future surveys, an analysis of the perceptions of youth that are reported at a national level may help to provide comparisons to information collected in other Alaska surveys. On average, the percentage of American youth in each grade level who perceives great risk of self-harm from alcohol consumption seems to increase with the amount of alcohol consumed. Youth in all grade levels appeared slightly more likely to report perceptions of great risk of self-harm for all amounts of alcohol consumption in 2011 than they were in 2000. This is a desirable change. In 2011, youth in grade 12 were less likely than youth in lower grades to report perceptions of great risk of self-harm in trying one or

more drinks, taking one or two drinks nearly every day, or having five or more drinks once or twice each weekend (9%, 25%, and 48%, respectively). Tenth graders reported perceiving great risk in trying one or more drinks (12%), having one or two drinks on a daily basis (33%), and binge drinking on the weekend (56%). More eighth graders reported perceiving great risk in trying one or more drinks (15%), taking one or two drinks regularly (32%), and binge drinking on the weekends (58%) than tenth and twelfth graders (Table 7).

From 2010 to 2011, the most significant changes in reported perceptions of great risk of self-harm due to alcohol consumption was recorded in twelfth graders. Among these students, there was a decrease in the percentage who perceived great risk of self-harm through trying alcohol (-1.4%) and through regular use of alcohol (-0.8%). Alternately, more students in grade 12 perceived great risk of self-harm by having four or five drinks daily (1.2%) and binge drinking on the weekends (1.3%).

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	Change
-	%	%	%	%	% %	%	%	%	%	%	%	%	2010-2011
Grade 8													
Try one or more drinks (beer,													
wine, liquor)	11.9 %	12.2 %	12.5 %	12.6 %	13.7 %	13.9 %	14.2 %	14.9 %	13.5 %	14.4 %	14.9 %	14.5 %	-0.4 % *
Take one or two drinks nearly													
every day	30.4	30.0	29.6	29.9	31.0	31.4	31.3	32.6	31.5	31.5	32.3	31.8	-0.5
Have five or more drinks once													
or twice each weekend	55.9	56.1	56.4	56.5	56.9	57.2	56.4	57.9	57.0	55.8	57.2	58.4	+1.2
Grade 10													
Try one or more drinks (beer,													
wine, liquor)	9.6 %	9.8 %	11.5 %	11.5 %	10.8 %	11.5 %	11.1 %	11.6 %	12.6 %	11.9 %	11.9 %	12.3 %	+0.4 %
Take one or two drinks nearly													
every day	32.3	31.5	31.0	30.9	31.3	32.6	31.7	33.3	35.0	33.8	33.1	32.9	-0.2 *
Have five or more drinks once													
or twice each weekend	51.0	50.7	51.7	51.6	51.7	53.3	52.4	54.1	56.6	54.2	54.6	55.5	+0.9 **
Grade 12													
Try one or more drinks (beer,													
wine, liquor)	6.4 %	8.7 %	7.6 %	8.4 %	8.6 %	8.5 %	9.3 %	10.5 %	10.0 %	9.4 %	10.8 %	9.4 %	-1.4 %
Take one or two drinks nearly													
every day	21.7	23.4	21.0	20.1	23.0	23.7	25.3	25.1	24.2	23.7	25.4	24.6	-0.8
Take four or five drinks nearly													
every day	59.9	60.7	58.8	57.8	59.2	61.8	63.4	61.8	60.8	62.4	61.1	62.3	+1.2
Have five or more drinks once													
or twice each weekend	42.7	43.6	42.2	43.5	43.6	45.0	47.6	45.8	46.3	48.0	46.3	47.6	+1.3

Table 7. U.S. Youth Who Perceive Great Risk of Self-Harm if They Consume Alcohol, 2000-2011

Source of data: Johnston, O'Malley, Bachman, & Schulenberg, 2009, 2011

* significance of .05 between last two classes in the grade

** significance of .01 between last two classes in the grade

The Monitoring the Future survey has also asked American youth (excluding Alaska) about their approval of other people's alcohol consumption. The percentage of youth in grades eight and ten who disapproved of any consumption has increased from 2000 (49% and 33% respectively) to 2011 (54% and 42% respectively). Although there were slight decreases from 2010 to 2011 in the percentage of grade eight youth who disapproved of others consuming alcohol, these changes were not found to be significant. Significant increases, however, were found among tenth graders who disapproved of others trying one or more drinks, taking one or two drinks nearly every day, and having five or more drinks once or twice each weekend (significant increases of 1.2%, 2.4%, and 1.4%, respectively). Generally, a greater percentage of eighth grade youth than tenth grade youth reported disapproval of other people's alcohol consumption in 2011 (Table 8).

_	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	Change 2000 to
0	%	%	%	%	%	%	%	%	%	%	%	%	2011
Grade 8													
Try one or more drinks (beer,													
wine, liquor)	48.7 %	49.8 %	51.1 %	49.7 %	51.1 %	51.2 %	51.3 %	54.0 %	52.5 %	52.7 %	54.2 %	54.0 %	-0.2 %
Take one or two drinks nearly													
every day	77.8	77.4	78.3	77.1	78.6	78.7	78.7	80.4	79.2	78.5	79.5	80.7	+1.2
Have five or more drinks once													
or twice each weekend	81.2	81.6	81.9	81.9	82.3	82.9	82.0	83.8	83.2	83.2	83.6	84.8	+1.2
Grade 10													
Try one or more drinks (beer,													
wine, liquor)	33.4 %	34.7 %	37.7 %	36.8 %	37.6 %	38.5 %	37.8 %	39.5 %	41.8 %	39.7 %	40.3 %	41.5 %	+1.2 % *
Take one or two drinks nearly	00.1 /0	01.170	01.1 /0	00.0 /0	01.0 /0	00.0 /0	01.0 /0	00.0 /0	11.0 /0	00.1 /0	10.0 /0	11.0 /0	
every day	73.8	73.8	74.9	74.2	75.1	76.9	76.4	77.1	79.1	77.6	77.6	80.0	+2.4
Have five or more drinks once	15.0	15.0	74.5	74.2	75.1	10.5	70.4	11.1	75.1	11.0	11.0	00.0	72.4
	00.0	00.0	74 5	74.0	74.0	70 7	70.0		77.0	75.4	75.0	77.0	. 4 4 **
or twice each weekend	68.2	69.2	71.5	71.6	71.8	73.7	72.9	74.1	77.2	75.1	75.9	77.3	+1.4 **

Table 8. Youth in Grades 8 and 10 Who Disapprove or Strongly Disapprove of People Who Consume Alcohol, 2000-2011

Source of data: Johnston, O'Malley, Bachman, & Schulenberg, 2009, 2011

 * significance of .05 between last two classes in the grade

** significance of .01 between last two classes in the grade

The Monitoring the Future survey also asks grade 12 youth to describe their disapproval of people age 18 and older consuming alcohol. Overall, disapproval among this group also appears to have increased for each level of consumption from 2000 to 2011. In addition, the percentage of grade 12 youth disapproving of others consuming alcohol seems to have increased with the amount consumed. In 2011, 29% of grade 12 youth disapproved of people age 18 or older trying one or more drinks, 70% disapproved of those who have five or more drinks once or twice each weekend, 73% disapproved of others who take one or two drinks nearly every day, and 91% disapproved of others taking four or five drinks nearly every day (Table 9).

Table 9. Youth in Grade 12 Who Disapprove or Strongly Disapprove of People Age 18 or OlderWho Consume Alcohol, 2000-2011

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	Change
Consumption disapproval	%	%	%	%	%	%	%	%	%	%	%	%	2010 to 2011
Try one or more drinks (beer, wine, liquor)	25.2 %	26.6 %	26.3 %	27.2 %	26.0 %	26.4 %	29.0 %	31.0 %	29.8 %	30.6 %	30.7 %	28.7 %	-2.0 %
Take one or two drinks nearly every day	70.0	69.2	69.1	68.9	69.5	70.8	72.8	73.3	74.5	70.5	71.5	72.8	+1.2
Take four or five drinks nearly every day	88.4	86.4	87.5	86.3	87.8	89.4	90.6	90.5	89.8	89.7	88.8	90.8	+1.9
Have five or more drinks once or twice each weekend	65.2	62.9	64.7	64.2	65.7	66.5	68.5	68.8	68.9	67.6	68.8	70.0	+1.2

Source of data: Johnston, O'Malley, Bachman, and Schulenberg, 2009, 2011

Consumption

Trend data for the years 2000 to 2010 indicate that per capita consumption of beer, spirits, and wine among Alaskans age 14 years and older has remained relatively unchanged. In 2010, Alaskans consumed 1.2 gallons of beer per capita, 1.3 gallons of spirits, and 0.6 gallons of wine. Alaskans' alcohol consumption rate was comparable to the national averages for beer and wine, but was nearly twice the national average for consumption of spirits in 2010. Alaskans consumed 1.3 gallons of spirits per capita versus 0.7 gallons per capita for the U.S average in 2010 (Table 10).

Table 10. Trends in Per Capita Ethanol Consumption for Alaskans Age 14 Years and Older, 2000 to 2010 (Gallons)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	U.S. 2010
Beverage Type												
Beer	1.4	1.3	1.4	1.3	1.3	1.2	1.2	1.1	1.2	1.3	1.2	1.1
Spirits	0.9	1.0	1.1	0.8	1.0	1.0	1.0	1.1	1.1	1.2	1.3	0.7
Wine	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.5	0.5	0.6	0.4

Source of data: National Institute on Alcohol Abuse and Alcoholism, 2012

On average, Alaskans aged 12 and older reported any alcohol use and binge alcohol use at a higher percentage than the national average in the 2008-2010 time period. Since 2006-2008, the overall percentage of Alaskans who reported any alcohol use in the past month has increased slightly. The only region in which any reported alcohol use increased between the time periods 2006-2008 and 2008-2010 was South Central Alaska (57%). For the 2008-2010 time period the Northern region (44%) was the only Alaska region with lower percentages reporting alcohol use in the past month than the national average (52%). The percentage of those in Alaska who reported binge drinking increased between these time periods. The highest percentage of Alaskans who reported binge drinking was in the Anchorage region (27%), while the lowest was in the Northern region (21%). Overall, reported binge drinking in Alaska increased in the Anchorage and South Central regions, while decreasing in the Northern and Southeast regions (Table 11).

Table 11. Estimated Annual Average of Alaskans Aged 12 and Older Consuming Alcohol in the Past Month by Region, 2006-2008 and 2008-2010

	2006	6-2008	2008-2010				
	Any		Any				
Region	Alcohol Use	Binge Alcohol Use	Alcohol Use	Binge Alcohol Use			
Anchorage	56.9 %	24.2 %	56.8 %	26.5 %			
Northern	47.7	23.1	44.0	21.1			
South Central	54.1	21.4	56.5	23.2			
Southeast	55.9	23.0	53.9	22.0			
Alaska Average	54.1	23.1	53.7	24.0			
National Average	51.2	23.3	51.7	23.4			

Column percents

Source of data: SAMHSA, Center for Behavioral Statistics and Quality, 2012b

Regions:

Anchorage: Borough and Municipality of Anchorage

Northern: Bethel Census Area, Denali Borough, Fairbanks North Star Borough, Nome Census Area, North Slope Borough, Northwest Arctic Borough, Southeast Fairbanks Census Area, Wade Hampton Census Area, and Yukon-Koyukuk Census Area South Central: Aleutians East Borough, Aleutians West Census Area, Bristol Bay Borough, Dillingham Census Area, Kenai Peninsula Borough, Kodiak Island Borough, Lake & Peninsula Borough, Matanuska-Susitna Borough, and Valdez-Cordova Census Area

Southeast: Haines Borough, Juneau City and Borough, Ketchikan Gateway Borough, Prince of Wales-Outer Ketchikan Census Area, Sitka City and Borough, Skagway-Hoonah-Angoon Census Area, Wrangell-Petersburg Census Area, and Yakutat City and Borough

In the period of 2008-2010, the percentage of Alaskans ages 12 to 20 years reporting any alcohol use ranged from 22 percent in the Northern region to 27 percent in the Anchorage and South Central regions. The percentage of 12 to 20-year-olds reporting any alcohol use in the Anchorage and South Central regions (27%) was higher than the State average (25%) and the same as the U.S. average (27%). The South Central region is the only Alaska region for which any reported alcohol use has increased (slightly) since the 2006-2008 reporting period. Reported percentages of any alcohol use decreased in Alaska statewide and the U.S. overall between these time periods. Reported binge alcohol use in the 2008-2010 period ranged from 16 percent in the Northern and Southeast regions to 17 percent in South Central and 20 percent in the Anchorage region. The Anchorage region is the only region which reported higher binge alcohol use in 2008-2010 than in 2006-2008 – and percentages higher than both the state (18%) and national (18%) averages. Overall, Alaskans aged 12 to 20 years reported lower percentages of any alcohol use and comparable percentages of binge alcohol use to the nation as a whole from 2008-2010, along with lower percentages from the previous reporting period (Table 12).

_	2006	6-2008	2008-2010			
Region	Any Alcohol Use	Binge Alcohol Use	Any Alcohol Use	Binge Alcohol Use		
Anchorage	28.2 %	19.1 %	26.5 %	19.3 %		
N orthern	25.7	18.0	22.2	16.3		
South Central	26.6	17.3	27.1	17.2		
Southeast	26.4	19.8	23.2	16.4		
Alaska	27.0	18.4	25.3	17.8		
National Average	27.5	18.3	26.5	17.5		

Table 12. Estimated Annual Average of Alaska Youth Aged 12 to 20 Consuming Alcohol in the Past Month by Region, 2006- 2008 and 2008-2010

Column percents

Source of data: SAMHSA, Center for Behavioral Statistics and Quality, 2012b

Regions:

Anchorage: Borough and Municipality of Anchorage

Northern: Bethel Census Area, Denali Borough, Fairbanks North Star Borough, Nome Census Area, North Slope Borough, Northwest Arctic Borough, Southeast Fairbanks Census Area, Wade Hampton Census Area, and Yukon-Koyukuk Census Area South Central: Aleutians East Borough, Aleutians West Census Area, Bristol Bay Borough, Dillingham Census Area, Kenai Peninsula Borough, Kodiak Island Borough, Lake & Peninsula Borough, Matanuska-Susitna Borough, and Valdez-Cordova Census Area

Southeast: Haines Borough, Juneau City and Borough, Ketchikan Gateway Borough, Prince of Wales-Outer Ketchikan Census Area, Sitka City and Borough, Skagway-Hoonah-Angoon Census Area, Wrangell-Petersburg Census Area, and Yakutat City and Borough

According to the National Survey on Drug Use and Health (NSDUH) from 2006-2007, as cited by Hull-Jilly and Casto (2011), 15 percent of Alaska youth ages 12 to 17 reported current alcohol use, compared to the U.S. average of 17 percent for the same age group, representing a one percent decrease. In 2007, 10 percent of youth ages 12 to 17 reported binge alcohol use, and six percent reported alcohol dependency/abuse, and five percent needing treatment in the past year. In the U.S. in 2007, the average youth aged 12 to 17 reported binge alcohol use, alcohol dependency/abuse, and needing treatment in the past year, at levels equal to or higher than those of Alaska youth of the same age in the same year. The percentage of youth in Alaska reporting current alcohol use, alcohol dependency, and needing treatment in the past year was stable between the 2003-2004 and 2006-2007 reporting years. Reported binge alcohol use has decreased two percent between 2003 and 2007.

Alaskans aged 18 to 25 reported similar rates of several alcohol consumption behaviors compared to the U.S. figures for this age group. Among Alaskans aged 18 to 25, 61 percent reported current alcohol use in the 2006-2007 reporting year, 42 percent reported binge alcohol use, 18 percent reported alcohol dependency/abuse, and 17 percent reported needing treatment in the past year. In the U.S., 61 percent of 18 to 25-year-olds reported current alcohol use in the 2006-2007 reporting alcohol use, 18 percent reported alcohol dependency/abuse, and 17 percent reported current alcohol use in the 2006-2007 reporting year, 41 percent reported binge alcohol use, 18 percent reported alcohol dependency/abuse, and 17 percent reported alcohol use, 18 percent reported alcohol dependency/abuse, and 17 percent reported needing treatment in the past year. The percentages of Alaskans aged 18 to 25 reporting current and binge alcohol use, alcohol dependency, and

requiring treatment in the past year have increased from reporting years 2003-2004 and 2006-2007.

In 2007, 54 percent of Alaskans of all ages reported current alcohol use, 23 percent reported binge alcohol use, eight percent reported alcohol dependency, and seven percent reported needing treatment for alcohol use in the past year. With the exception of current alcohol use (54% vs. 51% nationally), these levels were about equal to those reported by the average U.S. citizen (all ages), and were relatively equal to those reported by average Alaskans of all ages in the year 2003-2004 (Table 13).

	2003-2004	2004-2005	2005-2006	2006-2007	U.S. 2006-2007
Ages 12 to 17 alcohol use					
Alcohol dependency/abuse	5.7 %	6.0 %	6.1 %	5.9 %	5.8 %
Binge alcohol use	11.4	9.6	9.9	9.5	10.5
Current alcohol use	16.0	14.7	15.0	15.0	17.1
Needing treatment in past year	5.2	5.7	5.7	5.2	5.5
Ages 18 to 25 alcohol use					
Alcohol dependency/abuse	16.3 %	16.1 %	16.8 %	17.6 %	17.5 %
Binge alcohol use	39.1	37.3	35.9	40.8	41.5
Current alcohol use	57.8	57.4	58.0	61.2	60.7
Needing treatment in past year	15.8	15.7	16.1	16.7	16.9
All ages					
Alcohol dependency/abuse	7.4 %	7.5 %	7.8 %	7.8 %	7.7 %
Binge alcohol use	21.5	21.8	21.6	22.7	22.7
Current alcohol use	49.3	50.6	52.7	53.9	51.1
Needing treatment in past year	7.3	7.2	7.3	7.1	7.3

Table 13. Trends in Reported Alcohol Use, by Age Group, Alaska

Source of data: Hull-Jilly DMC and Casto LD, 2011

According to data released on the Behavioral Risk Factor Surveillance System (BRFSS) survey, 30 percent fewer Alaska youth aged 18 to 20 years reported current alcohol use in 2010 (29%) than in 2007 (42%). Heavy alcohol use was reported half as much in 2010 (2%) as in 2007 (4%) by Alaska youth. In Alaska youth aged 18 to 20 years there was a 32 percent drop in reported binge alcohol use from 2007 (22%) to 2010 (15%).

In 2011, the national average for reported current alcohol use among 18 to 20-year-olds was 57 percent – nearly double the rate in Alaska for 2010 (29%) - and binge drinking was 18 percent – 18 percent higher than in Alaska. According to the 2008-2010 BRFSS data, heavy alcohol use reported by Alaskans ages 18 to 20 was one-third of the national average at seven percent (Table 14).

Consumption behavior	2005-2007	2006-2008	2007-2009	2008-2010	U.S. 2011
Binge alcohol use	22.0 %	15.0 %	13.0 %	15.0 %	18.3 %
Current alcohol use	42.0	35.0	28.0	29.0	57.1
Heavy alcohol use	4.0	2.0	2.0	2.0	6.6

Source of data: Alaska Department of Health and Social Services, 2012.

Female youth in Anchorage School District (ASD) traditional schools have lower alcohol consumption in 2011 (67%) versus 1995 (81%), as indicated by the ASD 2011 Youth Risk Behavior Survey (YRBS). The YRBS asks students to report on how many days they have consumed at least one drink of alcohol as a measure of any lifetime alcohol consumption. Sixtyseven percent of female youth in ASD traditional schools reported any lifetime alcohol consumption in 2011, versus 81 percent in 1995. Similarly, the percentage of female youth who reported they first consumed alcohol before age 13 was dropped by half to 17 percent in 2011 from 36 percent in 1995, and past 30 day use was reported by 36 percent of females in 2011 and 45 percent in 1995. Past 30 days consumption of five or more drinks in a row was 22 percent in 2011 compared to 26 percent in 1995. Female youth's past 30 days alcohol use on school grounds increased from four percent in 1995 to five percent in 2011. With the exception of lifetime alcohol consumption, female youth in ASD traditional schools reported higher rates of various alcohol consumption behaviors than the Alaska average in 2011. In 2011, 17 percent of female youth in ASD traditional schools, and 14 percent of female youth in all Alaska schools, reported that they first consumed alcohol before the age of 13 versus 17 percent for the U.S. average.

Male youth in ASD traditional schools also appear to have reported lower levels of alcohol consumption in 2011 (66%) than in 1995 (80%), according to the ASD 2011 YRBS. In 2011, 66 percent of male youth in ASD traditional schools reported any lifetime alcohol consumption, compared to 80 percent in 1995, and 21 percent reported they first consumed alcohol before the age of 13 versus 42 percent in 1995 – a decrease of more than 50 percent. Past 30 day consumption among ASD traditional school males was 33 percent in 2011 versus 49 percent in 1995. Twenty percent of males reported consuming five or more drinks in a couple hours in the past 30 days in 2011 versus 37 percent in 1995, and four percent reported consuming alcohol on school property in the past 30 days, compared to eight percent in 1995. Male youth in ASD traditional school males and Alaska male youth reported lower rates of all alcohol consumption behaviors than the U.S. average in 2011, according to the ASD and national YRBS surveys of 2011 (Table 15).

	ASD 1995	ASD 2005	ASD 2007	ASD 2009	ASD 2011	2011	U.S. 2011
	%	%	%	%	%	%	%
Female youth alcohol use							
Lifetime alcohol consumption	80.8 %	78.6 %	76.0 %	69.6 %	67.3 %	68.2 %	70.9 %
First consumed alcohol before age 13	35.6	23.7	18.1	21.4	17.3	14.4	17.4
Alcohol consumption in past 30 days	45.2	44.1	38.0	35.5	35.9	31.0	37.9
Five or more drinks in couple hours in past 30 days	25.9	28.6	23.8	21.9	21.1	16.7	19.8
Consumed alcohol on school property, past 30 days	4.4	4.4	5.5	3.6	4.7	3.1	4.7
Male youth alcohol use							
Lifetime alcohol consumption	79.8 %	72.9 %	73.6 %	63.5 %	66.3 %	62.0 %	70.6 %
First consumed alcohol before age 13	41.8	25.0	23.0	19.3	21.1	19.1	23.3
Alcohol consumption in past 30 days	49.1	38.5	43.5	34.3	32.6	26.2	39.5
Five or more drinks in couple hours in past 30 days	36.8	27.1	28.5	23.3	19.9	16.7	23.8
Consumed alcohol on school property, past 30 days	8.1	8.5	8.4	3.5	4.0	3.7	5.4

Table 15. Trends in Alcohol Use Among Youth in ASD Traditional Schools by Gender, 1995 to 2011

Sources of data: Kerosky and Turner, 2010; Centers for Disease Control, 2010, 2012; Alaska Department of Health and Social Services and Alaska Department of Education and Early Development, 2012

Traditional school responses weighted by enrollments of sex within grade

A comparison of the 2007, 2009, and 2011 ASD YRBS surveys indicates that the overall consumption of alcohol for youth in each type of school in the ASD appears to be lower in 2011 than in 2007. A lower percentage of youth in traditional ASD schools reported consuming any amount of alcohol, or consuming alcohol on school property, in 2011 than in 2007. The percentage of ASD traditional school students who reported having their first drink of alcohol before the age of 13 decreased from 2007 (21%) to 2011 (19%). Among ASD alternative school youth, 32 percent reported having their first drink of alcohol before the age of 13 in 2011, versus 31 percent in 2007 – an increase of one percent.

Eighty-four percent of ASD alternative school youth reported lifetime consumption of alcohol in 2011, the same as in 2007. In 2011, five percent of alternative school youth reported having consumed alcohol on school property in the past 30 days versus seven percent in 2007. Equal percentages of alternative school youth reported in 2007 and in 2011 having one or more drinks (54%), while 43 percent reported having five or more drinks in a row within a couple hours in the past 30 days in 2011, an increase from 38 percent in 2007. In 2009, 56 percent of McLaughlin Youth Center school youth reported having one or more drinks in the past 30 days, while 76 percent had reported this in 2007. In addition, 48 percent of McLaughlin youth reported consuming five or more drinks in a row within a couple of hours in 2009 versus 64 percent in 2007. Forty-seven percent of McLaughlin youth reported having their first drink before the age of 13 in 2009, compared to 41 percent in 2007. A relatively equal percentage of McLaughlin school youth reported consuming alcohol on school property in the past 30 days in 2009 as in 2007 (15% versus 16%, respectively) (Table 16). Note: YRBS data was not available for McLaughlin High School for the 2011 survey year due to sample size limitations on reporting.

.. .

	ASD 2007				ASD 2009		ASD 2011		
	Traditional High Schools	Alternative High Schools	McLaughlin High School	Traditional High Schools	Alternative High Schools	McLaughlin High School	Traditional High Schools	Alternative High Schools	McLaughlin High School
Consumption Behavior	%	%	%	%	%	%	%	%	%
First drink before age 13	20.6 %	30.8 %	41.3 %	20.3 %	24.2 %	47.0 %	19.3 %	31.9 %	%
One drink or more in past 30 days	40.8	54.0	76.4	34.9	54.4	56.4	34.3	54.0	
Five or more drinks in a row within a									
couple hours in past 30 days	26.2	37.3	63.8	22.6	38.4	47.8	20.5	43.4	
Lifetime consumption	74.8	83.7	92.6	66.5	90.3	82.2	66.8	84.1	
Consumption on school property	7.0	7.0	15.6	3.6	3.8	15.0	4.4	5.4	

Table 16. Alcohol Consumption Among Youth in ASD by Type of High School, 2007, 2009, 2011

Sources of data: Kerosky, Chaney, and Kendzoria, 2008; Kerosky and Turner 2010; Alaska Department of Health and Social Services and Alaska Department of Education and Early Development, 2012

Traditional school responses weighted by combined enrollments of sex within grade

"--" indicates that sample size has fallen below 100 and results are suppressed to insure the integrity and confidentiality of the student data.

Consequences

School-Related Consequences

Author's note: Reporting requirements have changed at the state level and some school districts are no longer reporting detailed reasons for suspensions and expulsions. The following information should be considered with this caveat in mind.

In the Anchorage School District (ASD), two percent of suspensions and expulsions between 2005 and 2011 were related to consumption of alcohol and tobacco, and three percent were related to drug use. Inappropriate behavior was the most common reason for a suspension or expulsion in the ASD from 2005 to 2011 (32% of cases), followed by fighting and assault (12%), and harassment and extortion (6%).

In all other Alaska districts combined, alcohol consumption was the reason for suspension or expulsion in one percent of cases from 2005 to 2011, drug use was the reason in three percent of cases, and tobacco use in four percent of cases. Inappropriate behavior was also the most common reason for a suspension or expulsion in all other school districts from 2005 to 2011 (34%), followed by fighting and assault (16%), and harassment and extortion (8%) (Table 17).

Column percents

	Anch	orage	All Other	Alaska	
Reason	N	%	N	%	Total
Alcohol	501	0.7 %	920	1.1 %	1,421
Drug use	1,771	2.5	2,591	3.2	4,362
Fighting/assault	8,280	11.8	13,334	16.2	21,614
Inapp. behavior	22,707	32.3	28,097	34.2	50,804
Truancy	1,613	2.3	743	0.9	2,356
Arson/vandalism	686	1.0	1,018	1.2	1,704
Harass./extortion	4,266	6.1	6,795	8.3	11,061
Tobacco	976	1.4	2,990	3.6	3,966
Theft	1,319	1.9	1,202	1.5	2,521
Other	28,117	40.0	24,367	29.7	52,484
Total	70,236		82,057		152,293

Table 17. Reason for Suspension or Expulsion in Alaska Schools, 2005 to 2011

Source of Data : Alaska Department of Education and Early Development, 2012

From 2005 to 2011, a total of 70,236 in-school suspensions, suspensions, and expulsions were recorded for schools in the Municipality of Anchorage, 2,790 (4%) of which were related to substance use (Table 18, results not shown). Of the 2,790 suspensions and expulsions that related to substance use, 17 percent were related to alcohol consumption, 57 percent to drug use, and 26 percent to tobacco (results not shown). Among cases that related to alcohol, 94 percent resulted in suspension and six percent in expulsion. There were no in-school suspensions resulting from the consumption of alcohol. Eighty-eight percent of the cases relating to drug use resulted in suspension and 12 percent in expulsion. Unlike with alcohol consumption, there were five in-school suspensions resulting from drug use. Seventeen percent of tobacco use cases resulted in in-school suspension, 83 percent in suspension, and less than one percent in expulsion.

			Column	percents				
	Alcohol		Drug	Use	Tob	ассо	Other	
Suspension	N	%	Ν	%	Ν	%	N	%
In-school suspension	0	0.0 %	8	0.5 %	121	16.7 %	22,595	43.0 %

Table 18. Type of Suspension or Expulsion in Municipality of Anchorage Resulting from Substance Use, 2005 to 2011

1,404

1,601

189

Suspension

Total

Expulsion

438

26

464

94.4

5.6

Source of data: Alaska Department of Education and Early Development, 2012

87.7

11.8

598

6

725

82.5

0.8

29,593

52,579

391

56.3

0.7

Due to the changes in reporting requirements at the state level, school districts are no longer reporting the details of why students are suspended or expelled. Instead, many categories that were once listed separately, i.e. inappropriate behavior, are being aggregated into the "Other" category. Unfortunately, this limits the usefulness of the data for our purposes. Although this causes difficulties, we can still show some trends from 2005 to 2011 for the Anchorage School District and Alaska as a whole.

In the ASD, substance use has increased significantly in the 2010-2011 school year. Disciplinary actions due to alcohol use rose to nearly two percent of all suspensions and expulsions. In addition, drug use has increased to six percent and tobacco use to four percent. This puts substance use at the highest recorded levels for disciplinary actions in the schools in the time period from 2005 to 2011. Alaska (including Anchorage) is following the same trend as Anchorage, with over one percent of disciplinary actions due to alcohol use, six percent to drug use, and four percent to tobacco use (Table 19).

	2005 t	o 2006	2006 t	o 2007	2007 t	o 2008	2008 t	o 2009	2009 t	o 2010	2010 t	o 2011
	Ν	%	Ν	%	Ν	%	N	%	N	%	Ν	%
Alaska (including	Anchora	ge)										
Alcohol	281	1.1 %	300	1.2 %	228	1.0 %	187	0.7 %	37	0.1 %	388	1.5 %
Drug use	760	3.0	680	2.8	627	2.6	609	2.3	170	0.7	1,516	5.8
Fight/assault	4,069	15.9	3,872	16.0	3,231	13.6	3,184	12.3	942	3.6	6,316	24.3
Inapp. behavior	10,084	39.3	10,094	41.6	9,673	40.8	11,647	44.8	9,306	35.8	0	0.0
Truancy	4	0.0	0	0.0	0	0.0	743	2.9	1,609	6.2	0	0.0
Arson/vandal	352	1.4	346	1.4	429	1.8	337	1.3	240	0.9	0	0.0
Harass./extort.	1,944	7.6	2,115	8.7	1,980	8.4	1,983	7.6	551	2.1	2,488	9.6
Tobacco	744	2.9	717	3.0	623	2.6	683	2.6	251	1.0	948	3.6
Theft	545	2.1	556	2.3	473	2.0	477	1.8	470	1.8	0	0.0
Other	6,844	26.7	5,590	23.0	6,441	27.2	6,124	23.6	8,964	34.5	18,521	71.3
Total	25,627		24,270		23,705		25,974		22,540		30,177	
Anchorage												
Alcohol	98	1.0 %	107	1.0 %	83	0.9 %	63	0.7 %	0	0.0 %	113	1.4 %
Drug use	284	2.8	310	3.0	236	2.5	312	3.3	0	0.0	459	5.5
Fight/assault	1,565	15.3	1,362	13.3	1,180	12.4	1,191	12.7	0	0.0	2,040	24.6
Inapp. behavior	3,241	31.7	3,201	31.2	2,859	30.0	4,100	43.9	4,552	59.3	0	0.0
Truancy	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Arson/vandal	106	1.0	123	1.2	148	1.6	69	0.7	61	0.8	0	0.0
Harass./extort.	888	8.7	833	8.1	749	7.9	497	5.3	151	2.0	748	9.0
Tobacco	104	1.0	102	1.0	73	0.8	79	0.8	0	0.0	367	4.4
Theft	243	2.4	233	2.3	192	2.0	181	1.9	212	2.8	0	0.0
Other	3,707	36.2	3,998	38.9	4,015	42.1	2,856	30.6	2,697	35.1	4,577	55.1
Total	10,240		10,269		9,535		9,348		7,673		8,304	

Table 19. Reason for Suspension or Expulsion in Alaska and the Municipality of Anchorage by School Year, 2005 to 2011

Column percents

Source of data: Alaska Department of Education and Early Development, 2012

Of the 1,319 suspensions and expulsions relating to substance use that involved White youth from 2005 to 2011, 57 percent were for drug use, 19 percent for alcohol consumption, and 24 percent for tobacco use. Among suspensions and expulsions relating to substance use that were given to Black youth from 2005 to 2011, 63 percent related to drug use, 11 percent to alcohol consumption, and 26 percent to tobacco use. A total of 250 suspensions and expulsion for substance use involved Black youth from 2005 to 2011. Hispanic youth were given 209 suspensions or expulsions for substance use from 2005 to 2011, 56 percent of which related to drug use, 17 percent to alcohol consumption, and 28 percent to tobacco use.

Within the 460 suspensions and expulsions for substance use from 2005 to 2011 that involved Native Alaskan or American Indian youth, 59 percent related to drug use, 28 percent to tobacco use, and 14 percent to alcohol consumption. Asian youth received 103 suspensions and expulsions for substance use from 2005 to 2011, 61 percent of which related to drug use, 20

percent to alcohol consumption, and 18 percent to tobacco use. Ninety-three suspensions and expulsions were given to Native Hawaiian/Pacific Islander youth for substance use from 2005 to 2011. Of these, 46 percent were for drug use, 42 percent for tobacco use, and 12 percent for alcohol consumption. Multi-race youth received 356 suspensions and expulsions for substance use from 2005 to 2011, 56 percent for drug use, 14 percent for tobacco use, and 30 percent for alcohol consumption (Table 20).

		Ro	w percent	s			
	AI	cohol	Dru	g Use	То		
Student Race	Ν	%	Ν	%	N	%	Total
White	254	19.3 %	754	57.2 %	311	23.6 %	1,319
Black	28	11.2	158	63.2	64	25.6	250
Hispanic	35	16.7	116	55.5	58	27.8	209
Asian	21	20.4	63	61.2	19	18.4	103
Alaska Native/							
American Indian	64	13.9	269	58.5	127	27.6	460
Native Hawaiian/							
Pacific Islander	11	11.8	43	46.2	39	41.9	93
Multi-Race	51	14.3	198	55.6	107	30.1	356
Total	464	-	1,601	-	725		2,790

Table 20. Substance Use Suspension and Expulsions in Municipality of Anchorage by Race, 2005to 2011

Source of data: Alaska Department of Education and Early Development, 2012

Prime for Life is an evidence-based educational program "designed to gently but powerfully challenge common beliefs and attitudes that directly contribute to high-risk alcohol and drug use" (Prime for Life, 2010). Gaps exist in Prime for Life data available for analysis in this report. Data is for state fiscal years from July 1 through June 30 for the Anchorage School District (ASD). In 2009-2010, 83 percent of Prime for Life participants were from traditional high schools, two percent were alternative school youth and 15 percent were middle school youth in the ASD. By 2010-2011, 82 percent of participants were from traditional high schools, one percent from alternative schools, and 16 percent from middle schools. This trend shows an increase in younger students opting to participate in the Prime for Life program – an increase of 41 percent in middle school students. This data suggests that: 1) more students are being identified as needing intervention through increased efforts in the schools; 2) students are being identified as needing intervention through increased efforts in the schools; 2) students are being intervention through increased efforts in the schools; 2) students are being beginning to use at a younger age; or 3) both.

The most commonly used substance for Prime for Life participants is marijuana (73% in 2010-2011). The percentage of participants who self-identified as marijuana users increased by 38 percent from 2009-2010 to 2010-2011. Alcohol was the second-most commonly identified substance used by students in 2010-2011 (20%); an increase of 36 percent since 2009-2010 (Table 21).

Table 21. Anchorage School District Prime for Life Participants by Type of School and SubstanceUsed, 2009 to 2010

Column percents

	2009	-2010	2010	-2011	Ch	ange
_	Ν	%	Ν	%	Ν	%
Type of School						
High schools	195	83.3 %	245	81.7 %	50	25.6 %
Alternative schools	5	2.1	4	1.3	-1	-20.0
Middle schools	34	14.5	48	16.0	14	41.2
Unknown	0	0.0	3	1.0	3	100.0
Total	234		300			
Substance Used						
Marijuana	159	67.9 %	219	73.0 %	60	37.7 %
Alcohol	44	18.8	60	20.0	16	36.4
Rx	23	9.8	13	4.3	-10	-43.5
Cocaine	1	0.4	0	0.0	-1	100.0
Paraphernalia	4	1.7	8	2.7	4	100.0
Psychotropic	1	0.4	0	0.0	-1	-100.0
Other	1	0.4	0	0.0	-1	-100.0
Unknown	1	0.4	0	0.0	-1	100.0
Total	234		300			

Source of data: Volunteers of America Alaska, 2012

Risky Behavior and Underage Drinking

Among youth in ASD traditional schools, 23 percent reported being a passenger with a drinking driver, 19 percent consumed alcohol before the last time they had sexual intercourse, and eight percent drove after drinking in 2011. Also in 2011, 38 percent of youth in alternative ASD schools reported being a passenger with a drinking driver, 31 percent consumed alcohol before the last time they had sexual intercourse, and 17 percent drove after drinking. Among McLaughlin school youth in 2009, 33 percent were a passenger with a drinking driver, and 19 percent drove after drinking (Table 22). Note: YRBS data were not available for McLaughlin High School for 2011.

Table 22. ASD Youth Who Participated in Risk Behavior after Consuming Alcohol or Drugs by Type of School, 2009 and 2011

	Traditio	onal	Alterna	tive	McLaug	Ihlin	Alaska		
_	2009	2011	2009	2011	2011 2009		2009	2011	
Intercourse after consuming	13.6 %	19.0 %	30.9 %	30.7 %	%	%	17.1 %	18.4 %	
Drove after drinking	8.8	8.3	15.7	17.1	19.0		8.9	5.6	
Passenger with drinking driver	24.6	23.2	34.6	37.6	33.4		21.3	18.6	

Source of data: Anchorage School District Youth Risk Behavior Survey 2009; Alaska Department of Health and Social Services and Alaska Department of Education and Early Development, 2012

Traditional school responses weighted by enrollments of sex within grade

"--" indicates that sample size has fallen below 100 and results are suppressed to insure the integrity and confidentiality of the student data.

In the 2011 ASD YRBS, 19 percent of female youth in ASD schools reported that they consumed alcohol before the last time they had sexual intercourse, compared to 12 percent in 1995. This percentage had increased to 25 percent in 2005 from 12 percent in 1995 then dropped to 14 percent in 2007. In 2011, the percentage of female ASD youth who reported consuming alcohol before their last sexual intercourse was higher than both the Alaska average for female youth (16%), and the U.S. average for female youth (18%).

In 2011, 19 percent of male youth in ASD schools reported consuming alcohol before their last sexual intercourse, versus 32 percent in 2005, 30 percent in 2007, and 13 percent in 2009. It appears that a lower percentage of male youth in ASD schools (19%) reported consuming alcohol before the last time they had sexual intercourse in 2011 than did the Alaska average of 21 percent for male youth in 2011, and the 2011 U.S. average of 26 percent. While the U.S. average for males and females differed by eight percent in 2011; the Alaska averages differed by five percent and the ASD averages by less than one percent. The percentage of females in the ASD reporting they consumed alcohol before the last time they had sexual intercourse appears to be slightly lower than males in the ASD in 2011, whereas the percentages for males in Alaska and the U.S. overall were higher than those of females (Table 23).

Table 23. ASD Youth Who Consumed Alcohol or Used Drugs before Last Sexual Intercourse, 1995 to 2011

	ASD 1995	ASD 2005	ASD 2007	ASD 2009	ASD 2011	AK 2011	U.S. 2011
Female youth							
Consumed before intercourse	11.6 %	24.9 %	14.8 %	14.1 %	18.8 %	16.0 %	18.1 %
Male youth							
Consumed before intercourse	13.1 %	31.5 %	29.8 %	13.1 %	19.3 %	21.0 %	26.0 %

Sources of data: Kerosky and turner, 2010; Centers for Disease Control, 2010, 2012; Alaska Department of Health and Social Services and Alaska Department of Education and Early Development, 2012

Traditional school responses weighted by enrollments of sex within grade

Underage Drinking and Driving: Traffic Tickets, Crashes, Injuries and Fatalities

The percentage of female youth in ASD schools who reported driving after drinking was eight percent in 1995 and eight percent in 2011. The Alaska average for female youth who drove after drinking was five percent in 2011, and the U.S. average was seven percent. Female youth appear to be more likely to be a passenger with a drinking driver than they are to drive after drinking themselves. In 1995, 33 percent of ASD female youth reported being a passenger with a drinking driver, compared to 23 percent in 2011. The 2011 average for female youth in Alaska who reported being a passenger with a drinking driver was 18 percent, and the U.S. average was 25 percent. In 2011, a significantly larger percentage of females reported being a passenger with a drinking driver in ASD schools (8%) relative to the average for Alaska (5%), with the U.S. average percentage in the middle at seven percent.

Among male youth in ASD schools, 17 percent reported driving after drinking in 1995, compared to nine percent in 2011. The average for Alaska males reporting driving after drinking was 19 percent in 2011 and the U.S. male average was ten percent. As with female youth, a higher percentage of males reported being a passenger with a drinking driver than driving after drinking themselves. In 1995, 28 percent of ASD male youth reported being a passenger with a drinking driver, compared to 24 percent in 2011. In 2011, the average for Alaskan male youth who reported being a passenger with a drinking driver was 19 percent, and the U.S. average was 23 percent (Table 24). Similar to females, males in ASD schools reported being a passenger with a drinking driver at a higher rate in ASD schools (24%) relative to the average for Alaska (19%), with the U.S. average percentage in the middle at 23 percent.

	ASD 1995	ASD 2005	ASD 2007	ASD 2009	ASD 2011	AK 2011	U.S. 2011
Female youth							
Drove after drinking	7.6 %	10.4 %	9.2 %	7.2 %	8.0 %	4.7 %	6.7 %
Passenger with drinking driver	32.8	31.4	28.7	26.8	22.8	18.1	24.9
Male youth							
Drove after drinking	16.5 %	11.9 %	13.6 %	10.4 %	8.5 %	6.4 %	9.5 %
Passenger with drinking driver	27.9	25.5	26.7	22.6	23.5	18.9	23.3

Table 24. ASD Youth Who Drove after Drinking or Who Drove with a Drinking Driver in the Past 30Days, 1995 to 2011

Sources of data: Kerosky and turner, 2010; Centers for Disease Control, 2010, 2012; Alaska Department of Health and Social Services and Alaska Department of Education and Early Development, 2012

Traditional school responses weighted by enrollments of sex within grade

Traditional school responses weighted by enrollments of sex within grade

There were 269 tickets given to youth ages 15 or younger who were driving vehicles that were involved in crashes in Anchorage from 2000 to 2009 (results not shown). A total of 10,850 tickets were given to youth ages 16 to 20 who drove vehicles that were involved in crashes in

Anchorage from 2000 to 2009 (results not shown). Twelve percent of all alcohol-related driving while intoxicated tickets (DWI) given to drivers involved in crashes in Anchorage from 2000 to 2009 were given to youth who were 20 years old or younger. Fifteen percent of all tickets for having open alcohol in the vehicle while driving that were given to drivers involved in car crashes in Anchorage from 2000 to 2009 were given to youth ages 16 to 20 years.

In all other Alaska areas combined, youth ages 15 and younger who were driving vehicles that were involved in crashes from 2000 to 2009 were given 275 tickets, and youth ages 16 to 20 were given 6,232 tickets (results not shown). Of all alcohol-related DWI tickets that were given to drivers involved in crashes in other areas of Alaska, 17 percent were for youth ages 16 to 20, and one percent were for youth ages 15 or younger. Twelve percent of the tickets for refusing a breathalyzer test that were given to drivers involved in crashes in other areas of Alaska from 2000 to 2009, were to youth ages 16 to 20 (Table 25).

	15 or `	Younger	16 t	o 20	21	to 29	30 or Older		
	Ν	%	Ν	%	Ν	%	Ν	%	Total
Anchorage									
Alcohol DWI	4	0.2 %	271	11.3 %	833	34.9 %	1282	53.6 %	2,390
Intoxicated	0	0.0	0	0.0	2	8.0	23	92.0	25
Refuse chemical test	0	0.0	2	13.3	6	40.0	7	46.7	15
Refuse breathalyser test	0	0.0	1	4.0	11	44.0	13	52.0	25
Snow machine intoxicated	0	0.0	0	0.0	1	100.0	0	0.0	1
Open alcohol	0	0.0	2	15.4	3	23.1	8	61.5	13
Other	269	0.6	10,850	23.2	11,480	24.5	24,197	51.7	46,796
Alaska (excluding Anchorage)									
Alcohol DWI	13	0.6	327	16.2	601	29.8	1079	53.4	2,020
Intoxicated	0	0.0	0	0.0	0	0.0	0	0.0	0
Refuse chemical test	0	0.0	1	3.0	12	36.4	20	60.6	33
Refuse breathalyser test	0	0.0	8	12.1	13	19.7	45	68.2	66
Snow machine intoxicated	0	0.0	1	50.0	1	50.0	0	0.0	2
Open alcohol	1	2.3	2	4.7	18	41.9	22	51.2	43
Other	275	1.3	6,232	30.0	4,544	21.9	9,724	46.8	20,775

Table 25. Tickets Issued to Alaskans Who Were in Traffic Crashes by Age and Location,2000 to 2009

Row Percents

Source of data: Alaska Department of Transportation and Public Facilities, 2012

Male youth ages 20 and younger in Anchorage who were involved in crashes were issued 8,426 tickets from 2000 to 2009. Of these tickets, three percent were alcohol-related DWI tickets, and 97 percent were other tickets. Female youth in Anchorage who were involved in crashes were issued 5,880 tickets from 2000 to 2009. Ninety-eight percent of these were other tickets and two percent were alcohol-related DWI tickets (Table 26).

Table 26. Tickets Issued to Anchorage Youth Ages 20 and Younger Who Were in Crashes by Sex,2000 to 2009

	Column Percents										
_	Male Female										
	Ν	%	N	%							
Ticket											
Alcohol DWI	267	3.2 %	135	2.3 %							
Refuse breathalyser test	14	0.2	5	0.1							
Open alcohol	8	0.1	2	0.0							
Other	8,137	96.6	5,738	97.6							
Total	8,426		5,880								

Source of data : Alaska Department of Transportation and Public Facilities, 2012

From 2000 to 2009, Anchorage youth ages 20 and younger who were drivers of the principle vehicles involved in crashes in which they were issued alcohol-related DWI tickets caused a total of 174 injuries (Table 27). Of these injuries, 92 percent were minor injuries and eight percent were major injuries. There were no fatalities caused in accidents in which Anchorage youth ages 20 and younger were the drivers of the principle vehicle and had been issued an alcohol-related DWI ticket (results not shown).

Table 27. Injuries Caused by Anchorage Youth Ages 20 and Younger Who Were Responsible for Crashes and Were Issued Alcohol-Related DWI Tickets, 2000 to 2009

	Column F	Percents	
	_		ge Youth ol DWI
		Ν	%
Injuries			
	Minor injuries	160	92.0 %
	Major injuries	14	8.0
	Total injuries	174	

Source of data : Alaska Department of Transportation and Public Facilities, 2012

According to the Fatality Analysis Reporting System (FARS), there was one fatal accident in 2010 that involved a driver aged 16 to 20 years (FARS does not indicate whether the drivers were in the primary vehicles or another vehicle involved in the crash, although Alaska Department of Transportation and Public Facilities data does). This fatal crash represents seven percent of all fatal crashes involving drinking drivers in Alaska in 2010 (Table 28).

Table 28. Fatal Accidents Involving Drivers with Blood Alcohol Content of .08g/dl or Greater by Age, 2005; 2010

					R	Row percei	nts					
		16	to 20			35 ar	nd older					
-	2	005	2	010	2	005	05 2010		2005		2010	
Location	Ν	%	Ν	%	Ν	%	N	%	Ν	%	Ν	%
Alaska	2	8.0 %	1	7.1 %	13	52.0 %	2	14.3 %	10	40.0 %	11	78.6 %
National	1,198	10.2	555	7.8	5,248	44.7	2,955	41.7	5,282	45.0	3,568	50.4

Source of data: National Highway Traffic Safety Administration, 2012

Legal Consequences of Underage Drinking

From 2000 to 2008 there were 30,998 alcohol-related charges given to youth ages 20 and younger in Alaska². Of these charges, 93 percent were minor consuming charges. Four percent of the alcohol-related charges given to Alaska youth from 2000 to 2008 were for operating a vehicle after consuming alcohol. Minors being on a licensed premise and minors on a licensed premise with a fake ID each made up one percent of the charges given to underage youth in Alaska from 2000 to 2008 (Table 29).

Table 29. Total Number of Charges among Alaska Youth Age 20 and Younger, 2000 to 2008

Column percents								
-	Underag	e Youth						
_	N							
Charge								
Minor consuming	28,747	92.7 %						
Operating vehicle within 24 hours	13	0.0						
Fake ID on licensed premise	432	1.4						
Minor on licensed premise	333	1.1						
Minor consuming operating vehicle	1,199	3.9						
Minor alcohol violation	267	0.9						
Minor in possession	7	0.0						
Total	30,998							

Column noreante

Source of data : Alaska Justice Statistical Analysis Center, 2010

In 2002, there were 3,173 minor consuming charges filed against Alaska youth under age 21. The number of minor consuming charges was 3,116 in 2003, 2,751 in 2004, and 2,617 in 2005. In 2006 and 2007, minor consuming charges for underage Alaskan youth totaled 2,661 and 3,124, respectively. There were 3,254 minor consuming charges filed for Alaska youth under the age of 21 in 2008 (Figure 5).

² Note: Data in Table 29, Figure 5 and Figure 6 were not updated for this report.

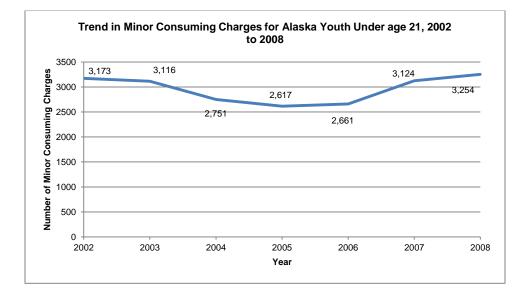


Figure 5. Trend in the Total Number of Minor Consuming Charges among Underage Youth in Alaska, 2002 to 2008

Source of data: Alaska Justice Statistical Analysis Center, 2010

In 2002, there were 63 charges for minors operating a vehicle after consuming alcohol. The number of charges for minors operating vehicles after consuming was 77 in 2003 and 91 in 2004. There were 210 charges for youth operating vehicles after consuming in 2005 in Alaska, 228 in 2006, and 236 in 2007. In 2008, 267 charges were filed for youth operating vehicles after consuming alcohol.

There were 22 charges for minors being on licensed premises and 34 charges for minors being on licensed premises with a fake ID in 2002. The total number of minors on licensed premises charges including 19 charges of minors on licensed premises and 61 charges of minors on licensed premises with a fake ID was 80 in 2003, 81 in 2004, 89 in 2005, and 91 in 2006. In 2007 and 2008, respectively, there were 51 and 44 charges in among underage Alaska youth for minors being on a licensed premise, and minors being on a licensed premise with a fake ID (Figure 6).

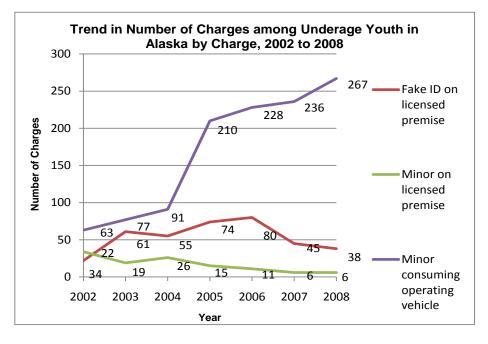


Figure 6. Trend in the Total Number of Charges among Underage Youth in Alaska by Selected Charge, 2002 to 2008

Source of data: Alaska Justice Statistical Analysis Center, 2010

The Alaska Court System provided data on dispositions of cases with charges filed against minors for possessing or consuming alcohol. Trends seen in the Municipality of Anchorage (MOA) resemble those for the rest of Alaska over the last four years. The number of charges filed in MOA has decreased annually from a high of 1,021 charges filed in 2009 to a low of 876 in 2011 (the last year for which complete data is available). The rate of dismissal in MOA minor consuming/possession charges has also decreased annually from a high of 21 percent in 2009 to a low of 13 percent for 2012 (through 10/22/12). For the rest of Alaska, the number of minor consuming charges filed has also decreased annually from a high of 2,934 charges filed in 2009 to a low of 2,343 charges filed in 2011. The rate of dismissal in minor consuming/possession charges for the rest of Alaska (excluding MOA) has decreased annually from a high of 33 percent in 2009 to a low of 21 percent in 2012 (through 10/22/12). The dismissal rate for minor consuming/possession charges was higher for all of Alaska (excluding MOA) than for MOA each year from 2009 to 2012 (Table 30).

	2009 Anchorage		2009 Alaska		2010 Anchorage		2010 Alaska 2011 Anchorage		2011 Alaska		2012 Anchorage		2012 Alaska			
Result	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Dismissed discretionary	208	21.0 %	881	33.2 %	159	18.1 %	853	36.6 %	130	15.5 %	596	25.4 %	49	13.4 %	223	21.2 %
Guilty Conviction	781	79.0	1,770	66.8	720	81.9	1,479	63.4	709	84.5	1,747	74.6	316	86.6	827	78.8
Total	989		2,651		879		2,332		839		2,343		365		1,050	
Other	32		283				459		37		227		176		655	
Total	1,021		2,934		879		2,791		876		2,343		541		1,050	

Table 30. Prosecution and Dismissal of Minor Consuming Charges, 2009-2012

Source of data: Alaska Court System, 2012

The Alaska Court System (ACS) provided data on dispositions of cases with charges filed against licensees (liquor license holders) for providing alcohol to a minor, allowing minors on alcohol premises, and allowing minors to serve alcohol. The ACS data indicates the number of charges filed for each of the separate offense involving licensees, but the case dispositions were only provided for the group of charges; dispositions for individual case types could not be disaggregated. As a result, frequencies of charges and dispositions have been provided for this group of offenses rather than for individual offense types. It is worth noting that the majority of the charges filed were for providing alcohol to minors and the next most common charge was for allowing minors on alcohol premises. Very few offenses were for allowing minors to serve alcohol.

When comparing dismissed charges filed against licensees to other case dispositions, relatively few charges were dismissed. In Anchorage, the percent of licensee charges dismissed ranged from a low of seven percent for 2012 (through mid-October) to a high of 22 percent in 2011. The dismissal rate increased from nine percent in 2009 to 15 percent in 2010 and 22 percent in 2011 and then declined to seven percent for 2012 (partial year). In Alaska (excluding Anchorage), eight percent of charges were dismissed in 2009. Since 2010 the dismissal rate ranged from 22 to 24 percent statewide.

		2009 horage	_	2009 aska		2010 horage		2010 laska		2011 horage		2011 Jaska		2012 chorage	-	2012 laska
Result	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Dismissed																
discretionar Not	4	8.5 %	4	8.3 %	9	14.5 %	8	24.2 %	4	22.2 %	14	22.6 %	2	7.4 %	8	23.5 %
dismissed*	43	91.5	44	91.7	53	85.5	25	75.8	#	77.8	48	77.4	#	92.6	26	76.5
Total	47		48		62		33		#		62		#		34	
Other**	1		1		2		1		1		0		#		11	
Total	48		49		64		34		#		62		#		34	

Table 31. Prosecution and Dismissal of Charges Filed Against Liquor License Holders, 2009-2012

Source of data: Alaska Court System

*The majority of dispositions for cases "not dismissed" are guilty or no contest pleas, but figures may include a small number of acquittals after jury trial

**Other includes cases not disposed

Alcohol Abuse Requiring Treatment

In Alaska in 2011, there were a total of 2,780 alcohol-only abuse treatment admissions for the overall population – an increase of 64 percent. The rates of admissions decreased for Alaskans aged 12-20 years-old, falling from 12 percent of all admission to four percent. Data for adults aged 21 years and older showed an increase in the total number of admissions (78%), accounting for 96 percent of all alcohol treatment admissions in Alaska (Table 32).

In Alaska in 2011, there were a total of 1,955 admissions for alcohol with a secondary substance abuse treatment for the overall population – an increase of 84 percent. The rates of admissions decreased for Alaskans aged 12-17-years-old (from 11% to 4% of all admissions) and for 18-20-year-olds (from 8% to 6%). Data for adults aged 21 years and older showed an increase that more than doubled the total number of admissions (107%) for this age group and accounting for 91 percent of all alcohol with secondary substance treatment admissions in Alaska.

It is unclear whether this decrease in alcohol and alcohol with secondary substance treatment admissions for 12-20 year-olds is due to a decreased need within the age group or an increased availability of treatment for adults over 21.

Column percents

				Column pe	ercents					
	2007		2008		2009		2010		2011	
-	Ν	%	Ν	%	Ν	%	Ν	%	Ν	%
Alcohol only										
0 to 11 years	0	0.0 %	0	0.0 %	0	0.0 %	0	0.0 %	0	0.0 %
12 to 17 years	90	5.3	74	3.4	86	3.7	48	1.6	42	1.5
18 to 20 years	108	6.4	117	5.4	105	4.5	84	2.8	75	2.7
21 and older	1,493	88.3	1,973	91.2	2,144	91.8	2,852	95.6	2,663	95.8
Total	1,691		2,164		2,335		2,983		2,780	
Alcohol with										
secondary substance										
0 to 11 years	1	0.1 %	2	0.1 %	0	0.0 %	0	0.0 %	0	0.0 %
12 to 17 years	120	11.3	128	6.9	97	5.6	88	4.3	70	3.6
18 to 20 years	84	7.9	169	9.1	153	8.8	158	7.7	108	5.5
21 and older	859	80.7	1,558	83.9	1,485	85.6	1,811	88.0	1,777	90.9
Total	1,064		1,857		1,735		2,058		1,955	

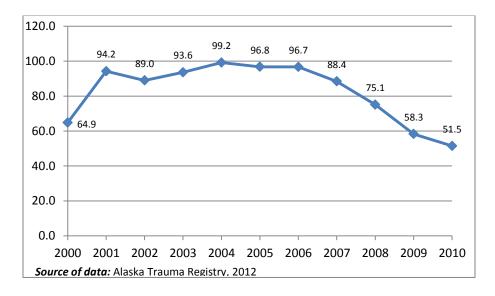
Table 32. Alcohol Abuse Treatment Admissions in Alaska by Age Group, 2007 to 2011

Source of data : Substance Abuse and Mental Health Services Administration, 2012a,b,c

Health and Safety Consequences of Underage Drinking

Trend data from the Alaska Trauma Registry show that in 2000, the rate of alcohol-related injuries requiring hospitalization per 100,000 population among Alaskans ages 20 and under was 65. This rate reached a high of 99 in 2004, and has fallen to 52 per 100,000 population in 2010 (Figure 7).

Figure 7. Statewide Alcohol-Related Injuries Requiring Hospitalization for Alaskans Ages 20 and under, 2000 to 2010 (per 100,000 population)



In the Anchorage region, the number of alcohol-related injuries requiring hospitalization among Alaskans ages 20 and younger appears to show an overall decline from 54 injuries in 2001 to 20 injuries in 2010. For all of Alaska, excluding the Anchorage region, the number of alcohol-related injuries requiring hospitalization among youth age 20 and younger show a significant decrease from 143 in 2001 to 100 in 2010 (Table 33).

Region	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Anchorage	54	40	33	34	35	28	31	30	21	20
Alaska	143	147	163	174	167	173	152	125	100	87
Total	197	187	196	208	202	201	183	155	121	107

Table 33. Number of Alcohol-Related Injuries Requiring Hospitalization for Alaskans Ages 20 and
Under by Region of Residence, 2001 to 2010

Source of data: Alaska Trauma Registry, 2012

Fetal Alcohol Spectrum Disorder (FASD) births may also be one of the unfortunate consequences of youth alcohol consumption. Fetal Alcohol Spectrum Disorders (FASD) is an umbrella term describing the range of effects that can occur in an individual whose mother drank alcohol during pregnancy. These effects may include physical, mental, behavioral and/or learning disabilities with possible lifelong implications. Among Alaska mothers with a maternal age of 15 to 19, years, there were 17,203 live births from 1996 to 2011, equaling just over ten percent of all live births in Alaska in that period. This same maternal age group had nearly 14 percent of all FASD births from 1996 to 2011. Alaska mothers with a maternal age of 15 to 19 had FASD births at a higher rate than their representation among all live births. Ninety percent of all live births in Alaska from 1996 to 2011 were to mothers of maternal ages 20 to 45 years, and this same group had nearly 87 percent of all FASD births from 1996 to 2011 (Table 34).

Table 34. Total Number of Fetal Alcohol Spectrum Disorder Births in Alaska by Maternal Age,1996-2011

		Now perc	enis				
			Maternal Age				
	15 to 19 years 20 to 45 years						
FASD Births	252	13.5 %	1,610	86.5 %	1,862		
Total live births	17,203	10.2	150,757	89.8	167,960		

Row parcents

Source of data: Alaska Birth Defects Registry, 2012

Between 2001 and 2005, there were 5,954 deaths in Anchorage, three percent of which were alcohol-induced. Of all deaths in Alaska, excluding Anchorage, four percent were alcohol induced. In comparison, between 2005 and 2009, there were 6,571 deaths in Anchorage, of which four percent were alcohol-induced, an increase on one percent from the 2001-2005 time period. Overall, Alaska's rate of alcohol-induced deaths has held steady around four percent from 2001 to 2009 (Table 35).

Anchorage					All oth	er areas		Alaska total				
	2001	-2005	2005	-2009	2001	-2005	2005	-2009	2001	-2005	2005	-2009
Deaths	Ν	%	Ν	%	Ν	%	Ν	%	Ν	%	Ν	%
Alcohol-induced	205	3.4 %	285	4.3 %	381	4.0 %	415	3.9 %	586	3.8 %	700	4.1 %
All other deaths Total	5,749 5,954	96.6	6,286 6,571	95.7	9,074 9,455	96.0	10,106 10,521	96.1	14,823 15,409	96.2	16,392 17,092	95.9

Column percents

Table 35. Total Number of Alcohol-Induced Deaths for All Ages in Anchorage, 2001 to 2005, 2005 to 2009

Source of data: Hull-Jilly and Casto, 2009, 2011

In Alaska from 2001-2005, there were 20 alcohol-induced deaths among male and female youth ages 0 to 24 years, nearly double the number in 2005-2009 (12). In 2001-2005, eleven of the alcohol-induced deaths among youth ages 0 to 24 years involved Native males, five involved White males, three involved Alaska Native females, and one involved a Black female. By comparison, in the 2005-2009 time period, seven alcohol-induced deaths in Alaska involved Native males, three White males, one Native female, and one Black female aged 0 to 24 years. Among male and female adults ages 25 and older, there were 564 alcohol-induced deaths from 2001-2005 and 682 from 2005-2009. From 2001-2005, 211 of these deaths involved White males, 149 involved Alaska Native males, and 121 involved Native females. There were 76 alcohol-induced deaths among White females ages 25 and older from 2001-2005, five for Black males, and one each for Asian males and Asian females. From 2005-2009, alcohol-induced deaths involved 255 White males, 151 Native females, 144 Native males, 122 White females, five Asian males, three Black males, and 2 Black females. Most notable between 2005-2009 and 2001-2005 is the increase in alcohol induced deaths for Native females (151 vs. 121 respectively) and White females (122 vs. 76 respectively) (Table 36).

Row totals Ages 0 to 24 Ages 25 and Older All Ages 2001-2005 2001-2005 2005-2009 **Alcohol Induced Deaths** 2005-2009 2001-2005 2005-2009 Female Native White Black Asian Male Native White Black Asian Total

Table 36. Total Number of Alcohol-Induced Deaths in Alaska by Age, Race, and Sex, 2001-2005	
and 2005-2009	

Source of data: Hull-Jilly and Casto, 2009, 2011

Economic Consequences of Underage Drinking

In 2010, the average cost of underage drinking per youth in the U.S. was \$2,070. Alaska was among the five states with the highest cost of underage drinking per youth in 2010, with a cost per youth of \$4,378. Among the remaining four States, South Dakota reached \$3,436 per youth, New Mexico's cost was \$3,303, Wyoming's cost was \$3,136, and the cost in Arkansas was \$3,097 (Figure 8).

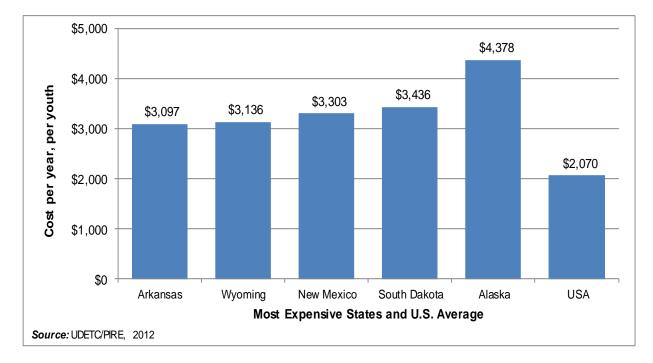


Figure 8. Total Cost of Underage Drinking per Year, per Youth, in the Five States with the Highest Cost-per-Youth, 2010

In 2010, the total cost of underage drinking was \$62 billion; \$37 billion of this went to pain and suffering, \$18 billion went to work lost costs, and \$7 billion to medical costs. In Alaska in 2010, \$190 million was spent on pain and suffering related to underage drinking. The total direct costs of underage drinking in Alaska in 2010 were \$131 million, \$52 million of which went to medical costs and \$79 million to work lost costs. In total, underage drinking cost Alaska \$321 million in 2010 (Table 37).

Table 37. Total Cost of Underage Drinking in the Five States with the Highest Cost-Per-Youth, 2010 (in Millions of Dollars)

Column totals									
	Alaska	South Dakota	New Mexico	Wyoming	Arkansas	U.S. Total			
Direct Cost									
Medical Costs	52.0	71.0	58.0	33.0	88.0	6900.0			
Work Lost Costs	79.0	59.0	201.0	39.0	229.0	18200.0			
Total Direct Costs	131.0	130.0	259.0	72.0	317.0	25100.0			
Indirect Cost									
Pain and Suffering	190.0	152.0	395.0	95.0	538.0	36900.0			
Total Costs	321.0	282.0	654.0	167.0	855.0	62000.0			

Source of data: UDETC/PIRE, 2012

There are various problems caused by underage drinking that contributed to the \$62 billion spent in the U.S. on underage drinking in 2010. For example, the Pacific Institute for Research and Evaluation (PIRE) estimates that youth violence as a result of underage drinking cost the U.S. over \$35 billion in 2010. An additional \$10 billion was spent on youth traffic crashes, over \$5 billion on high risk sex among those ages 14 to 20 years, and \$5 billion on youth property crime, as a result of underage drinking. In Alaska alone, \$155 million was spent on youth violence that resulted from underage drinking, \$91 million on youth traffic crashes, and \$25 million on youth alcohol treatment. Underage drinking also cost Alaska \$11 million for consequences associated with high risk sex among youth ages 14 to 20 years, and nearly \$22 million for injuries that happened to underage youth who were drinking alcohol. Costs associated with youth property crime resulting from underage drinking in Alaska totaled over \$11 million in 2010 (Table 38).

Table 38. Cost of Underage Drinking in the Five States with the Highest Cost-per-Youth byProblem, 2010 (in Millions of Dollars)

		South	New			
Problem	Alaska	Dakota	Mexico	Wyoming	Arkansas	U.S. Total
Youth violence	154.7	101.8	329.7	66.6	518.5	35,094.5
Youth traffic crashes	91.0	94.6	178.6	47.0	131.1	9,955.9
High risk sex- ages 14 to 20	11.0	13.3	51.3	12.8	61.4	5,184.0
Youth property crime	11.4	7.5	42.3	7.7	59.8	5,138.5
Youth injury	21.5	7.8	25.3	5.9	36.9	2,133.3
Poisonings and psychosis	1.7	1.9	4.1	1.5	5.3	657.0
FAS among mothers ages 15 to 20	4.9	1.9	14.6	1.9	17.3	1,307.2
Youth alcohol treatment	25.2	54.0	6.9	23.4	24.8	2,574.9
Total	321.4	282.8	652.8	166.8	855.1	62,045.3

Column totals

Source of data: UDETC/PIRE, 2012

Data Gap Analysis

Following the recommendation of the RAND Corporation in its Preventing Underage Drinking Report (2007), we identified currently available indicators of underage drinking and recommend collection of additional data. Based on the known indicators that were collected for this report, it seems that little is known about youth access to alcohol in Anchorage, and Alaska generally. The information we do know about youth access to alcohol comes from an item on the YRBS that asks youth how they normally get their alcohol, and from one indicator from the Alaska Alcoholic Beverage Control (ABC) Board regarding the percentage of licensees who pass their compliance checks. Information that is lacking in regard to youth access to alcohol, based on the indicators reported in this assessment, include statistics on shoulder tap activities carried out by the Alaska ABC Board. Shoulder tap activities involve law enforcement using youth under 21 to ask adults outside of liquor stores to purchase alcohol for them. Alcohol Beverage Control enforcement collects this data and may be willing to make it available for independent analysis. Some additional indicators that could add to the body of knowledge about youth access to alcohol in Anchorage include the number and percentage of youth who report being permitted by their parents to consume and/or accessing alcohol from parents or other family members, and the number and percentage of parents and other family members who report permitting youth to consume alcohol. Another important indicator for youth access to alcohol is adults' (both near peers aged 21 to 25 and older adults) attitudes and behaviors toward purchasing or providing alcohol for youth. While not presented here, the Justice Center at UAA has prepared a report on Anchorage residents' attitudes regarding underage drinking and adult provision of alcohol to underage persons (see 2010 Anchorage Underage Drinking Survey: A Look at Adult Attitudes, Perceptions, and Norms).

A number of the indicators presented in this report about social norms and youth perceptions of alcohol consumption were available at the state or national levels, but not for Anchorage specifically. It may be useful for future research efforts to focus on such indicators among youth in Anchorage and other parts of Alaska. For example, the Monitoring the Future survey does not include youth from Alaska in their sample population, but survey items, such as youth approval of alcohol consumption by others, could add to our knowledge of youth perceptions if they were asked of youth in Anchorage and other parts of Alaska. Additionally, the National Survey on Drug Use and Health (NSDUH) only offers three-year averages for four regions within the state of Alaska from yearly surveys due to the small sample sizes achieved here. Efforts to increase the sample sizes for this type of survey may allow researchers to track changes in attitudes and behaviors more closely on a year-to-year basis, rather than based on three-year averages.

A number of indicators about alcohol consumption among Anchorage youth were available regarding the amount of consumption and age of first consumption. Additional indicators meriting further research in this area include the circumstances or environments in which youth normally consume alcohol (at parties, in small groups, alone, for example).

The majority of indicators collected for this report related to the consequences of youth alcohol consumption. Much of this information was also available for Anchorage specifically, and for Alaska. However, one potential indicator that was not included in this report is the number

and/or rate of alcohol-related emergency room visits for youth in Anchorage versus other areas of the state. It should also be noted that previous programs requiring very specific reporting requirements for disciplinary actions, and the related details, are no longer required by the state. This incomplete data will make it problematic for research into the impact of alcohol on suspensions and expulsions from public schools in Alaska to be undertaken. We would encourage the reimplementation of guidelines requiring detailed disciplinary actions to be submitted to the state on a quarterly basis.

A number of environmental indicators were not, to our knowledge, available at the time of this report, but could add significantly to our knowledge of youth alcohol access and consumption in Anchorage and improve the ability to form programs and policies to address related issues. Such indicators include the perceptions and attitudes of law enforcement, prosecutors, and judges toward youth alcohol access and consumption; the size and type of the problem in Anchorage; and beliefs among criminal justice professionals, parents and others about how these issues are handled within the criminal justice system. In addition, a review of local laws, policies, and practices related to alcohol consumption and underage drinking could be compiled. A map identifying the location of licensed liquor establishments as well as violators and repeat violators of compliance checks could also be generated. Other reports have suggested that it may be useful to examine the amount of alcohol advertisements or number of licensed alcohol establishments that youth are exposed to on a regular basis, and comparatively, the amount of anti-alcohol or positive alternatives to alcohol that youth are exposed to regularly. Additional environmental indicators that could be examined in future research include the number and percentage of parents that consume alcohol around their children, and the amount of alcohol these parents consume (as reported by youth and/or parents), as well as the number and percentage of friends youth report being in contact with on a regular basis who consume alcohol.

References

- Alcoholic Beverage Control Board. (2012). Compliance rates for Anchorage and Alaska, 2005-2012. Unpublished data.
- Alaska Birth Defects Registry. (2012). Total Number of Fetal Alcohol Spectrum Disorder births in Alaska by maternal age, 1996-2011. Unpublished data.
- Alaska Court System. (2012). Prosecution and dismissal of minor consuming charges, 2009-2012. Unpublished data.
- Alaska Department of Education and Early Development (2012). *Statewide Suspensions and Expulsions 2005-2012*. Unpublished raw data.
- Alaska Department of Health and Social Services and Alaska Department of Education and Early Development. (2012). 2011 Youth Risk Behavior Survey: Variable summary table reports for standard report behaviors. Juneau, AK: Alaska Department of Health and Social Services.
- Alaska Department of Transportation and Public Facilities, Transportation Data Management Services (2012). *Statewide Crashes 2000 to 2009*. Unpublished raw data.
- Anchorage School District. (2010). *ASD online: Safe and drug free schools*. Retrieved from http://www.asdk12.org/depts/sdfs/about/principles.asp
- Alaska Justice Statistical Analysis Center. (2010). Subset of records from the Alaska Court System's 2008 4th quarter release of the case record extract. Unpublished raw data.
- Alaska Trauma Registry. (2012). Statewide alcohol-related injuries requiring hospitalization for Alaskans ages 20 and under, 1999-2010. Unpublished data.
- Anchorage United for Youth. (2012). Anchorage United for Youth 2011 Youth Risk Behavior Survey trends report. Retrieved from http://www.aydc.org/youth_data/2011-YRBS.pdf
- Centers for Disease Control and Prevention (June 4, 2010). Youth Risk Behavior Surveillance: United States, 2009. *Morbidity and Mortality Weekly Report*. 59(ss-5). Retrieved from http://www.cdc.gov/mmwr/pdf/ss/ss5905.pdf
- Garcia, G. (2010). YRBS 2009: Anchorage traditional schools preliminary analysis. Unpublished data.
- Hull-Jilly, DMC, and Casto LD (2009). State Epidemiologic Profile on Substance Use, Abuse and Dependency. Juneau, AK: Section of Prevention and Early Intervention Services, Division of Behavioral Health, Alaska Department of Health and Social Services. Retrieved from http://www.hss.state.ak.us/dph/ipems/injury_prevention/Assets/SEOW-2001-2005.pdf

- Hull-Jilly DMC, and Casto LD. (2011). State epidemiologic profile on substance use, abuse and dependency. Juneau, AK: Section of Prevention and Early Intervention Services, Division of Behavioral Health, Alaska Department of Health and Social Services. Retrieved from http://www.epi.hss.state.ak.us/injury/sa/SEOW-2005-2009.pdf
- Johnston, L., O'Malley P., Bachman, J., & Schulenberg, J. (2009). Monitoring the Future national results on adolescent drug use: Overview of key findings, 2008 (NIH Publication No. 09-7401). Bethesda, MD: National Institute on Drug Abuse. Retrieved from http://monitoringthefuture.org/pubs/monographs/overview2008.pdf
- Johnston, L., O'Malley P., Bachman, J., & Schulenberg, J. (2012). Monitoring the Future national results on adolescent drug use: Overview of key findings, 2011. (NIH Publication No. 09-7401). Bethesda, MD: National Institute on Drug Abuse. Retrieved from http://www.monitoringthefuture.org/pubs/monographs/mtf-overview2011.pdf
- Kerosky, M., Chaney, K., Kendziora, K. (2008). Anchorage School District 2007 Youth Risk Behavior Survey (YRBS). Retrieved from http://www.asdk12.org/depts/sdfs/Research/YRBS_2007.pdf
- Kerosky, M. & Turner, M. (2010). Anchorage School District 2009 Youth Risk Behavior Survey (YRBS): All questions graphed report. Retrieved from http://www.asdk12.org/depts/SDFS/Research/YRBS_2009.pdf
- Moore, M (2010a). Alaska Trauma Registry, 24-hour admission or observation, or transfer, age under 21, Alaska Residents, Alcohol-related, year. AK: Alaska Trauma Registry. Unpublished data.
- Moore, M. (2010b). Alaska Trauma Registry, 1999-2007, Alaska residents, age under 21, alcohol-related, by year and region of residence. Unpublished data.
- National Highway Traffic Safety Administration, National Center for Statistics and Analysis (N/A). [*FARS Query System*]. Retrieved from http://www-fars.nhtsa.dot.gov/QueryTool/QuerySection/SelectYear.aspx
- National Institute on Alcohol Abuse and Alcoholism. (2012). *Apparent per capita alcohol consumption: National, state, and regional trends, 1977-2010.* Washington, D.C.: National Institutes of Health. Retrieved from http://pubs.niaaa.nih.gov/publications/Surveillance95/CONS10.htm

- National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism (October 2009). Per Capita ethanol Consumption for States, census regions, and the United States, 1970-2007. [*Consum03.htm*]. Retrieved from http://www.niaaa.nih.gov/Resources/DatabaseResources/QuickFacts/AlcoholSales/consu m03.htm
- Prime for Life (2010). *What is PRIME for life?* Retrieved from http://www.primeforlife.org/ homepage.cfm?CFID=355019&CFTOKEN=26021745

Safe and Drug Free Schools (2010). Prime for Life Data Report. Unpublished data.

- SAMHSA Center for Behavioral Health Statistics and Quality. (2012a). *National Survey on Drug Use and Health, 2005, 2006-2010 (revised 3/12).* Unpublished data.
- SAMHSA, Center for Behavioral Health Statistics and Quality. (2012b). *National Survey on Drug Use and Health: Comparison of the 2006-2008 and 2008-2010 model-based substate estimates*. Retrieved from http://www.samhsa.gov/data/NSDUH/substate2k10/ChangeTables/NSDUHsubstateChan geTabs2010.htm
- SAMHSA, Center for Behavioral Health Statistics and Quality (2012c). Substance Abuse Treatment Admissions by Primary Substance of Abuse, According to Sex, Age Group, Race, and Ethnicity, 2010. *Quick statistics from the Drug and Alcohol Services Information System: TEDS admission table for Alaska*. Retrieved from http://wwwdasis.samhsa.gov/webt/quicklink/AK10.htm
- SAMHSA, Center for Behavioral Health Statistics and Quality (2012d). Substance Abuse Treatment Admissions by Primary Substance of Abuse, According to Sex, Age Group, Race, and Ethnicity, 2011. *Quick statistics from the Drug and Alcohol Services Information System: TEDS admission table for Alaska*. Retrieved from http://wwwdasis.samhsa.gov/webt/quicklink/AK11.htm
- SAMHSA, Office of Applied Studies (May 28, 2009). Parental Involvement in Preventing Youth Substance Abuse. *The NSDUH Report*. Rockville, MD. Retrieved from http://www.oas.samhsa.gov/2k9/159/ParentInvolvement.htm
- SAMHSA, Office of Applied Studies (2010a). Substance Abuse Treatment Admissions by Primary Substance of Abuse, According to Sex, Age Group, Race, and Ethnicity, 2007. Quick statistics from the Drug and Alcohol Services Information System: TEDS admission table for Alaska. Retrieved from http://wwwdasis.samhsa.gov/webt/tedsweb/tab_year.choose_year_web_table?t_state=AK

- SAMHSA, Office of Applied Studies (2010b). Substance Abuse Treatment Admissions by Primary Substance of Abuse, According to Sex, Age Group, Race, and Ethnicity, 2008. *Quick statistics from the Drug and Alcohol Services Information System: TEDS admission table for Alaska*. Retrieved from http://wwwdasis.samhsa.gov/webt/tedsweb/tab_year.choose_year_web_table?t_state=AK
- SAMHSA, Office of Applied Studies (2010c). Substance Abuse Treatment Admissions by Primary Substance of Abuse, According to Sex, Age Group, Race, and Ethnicity, 2009. *Quick statistics from the Drug and Alcohol Services Information System: TEDS admission table for Alaska*. Retrieved from http://wwwdasis.samhsa.gov/webt/tedsweb/tab_year.choose_year_web_table?t_state=AK
- Schoellhorn, K. & Beery, A. (2006). Alaska Maternal and Child Health Data Book 2005: Birth Defects Surveillance Edition. 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. Retrieved from http://www.epi.hss.state.ak.us/mchepi/mchdatabook/2005.htm
- State of Alaska, Alcoholic Beverage Control Board (2010). *Alcoholic Beverage Control Board Component*. Retrieved from http://gov.state.ak.us/omb/results/view_details.php?p=129
- State of Alaska Department of Health and Social Services, Division of Behavioral Health, Prevention and Early Intervention Program (2009). *State of Alaska Plan to Reduce and Prevent Underage Drinking*. Retrieved from http://www.hss.state.ak.us/dbh/prevention/docs/2009_underagedrinkplan.pdf
- State of Alaska Health and Social Services, Division of Public Health Chronic Disease Prevention and Health Promotion (2007). *Alaska Youth Risk Behavior Survey trends:* 1995 to 2007. Retrieved from http://www.hss.state.ak.us/dph/chronic/school/pubs/YRBS_AK_MULTIYEAR.pdf
- State of Alaska Department of Health and Social Services, Division of Public Health Chronic Disease Prevention and Health Promotion (2009). 2009 Alaska traditional high school YRBS results. Retrieved from http://www.hss.state.ak.us/dph/chronic/school/pubs/2009AKH_Graphs.pdf
- Trani, B.L., & Hamilton, S.L. (2000). Underage Drinking in Alaska Needs Assessment. C & S Management Associates for State of Alaska Department of Health and Social Services, Division of Juvenile Justice. Retrieved from http://www.hss.state.ak.us/djj/information/underage/UnderageDrinkingFullReport.pdf
- Underage Drinking Enforcement Training Center/PIRE (2012). *Underage Drinking Costs: 2010*. Retrieved from http://www.udetc.org/UnderageDrinkingCosts.asp

Appendix - Annotated Bibliography of Survey Sources

Anchorage School District Youth Risk Behavior Survey (YRBS). Available at http://www.asdk12.org/depts/sdfs/research.asp

The Anchorage School District (ASD) YRBS is a report that uses data collected from the Alaska YRBS to compare the ASD to the statewide average. The ASD report further analyses the trends occurring in ASD traditional schools and compares ASD traditional schools with the district's alternative and McLaughlin schools. The ASD YRBS has a minimum response rate of 60% required for generalization to the student population.

Centers for Disease Control and Prevention. *Youth Risk Behavior Surveillance System*. Available at http://www.cdc.gov/HealthyYouth/yrbs/index.htm

The Youth Risk Behavior Surveillance System (YRBSS) reports on national, state, territorial, tribal and district school-based surveys that monitor priority health-risk behaviors among youth in the United States. Alcohol use is a component of the YRBSS surveys.

YRBSS surveys are conducted every two years from February to May. The national sample is separate from those of state, territorial, tribal, and district surveys, and is a three-stage cluster design that is representative of United States youth in grade 9 through grade 12 in public and private schools. Therefore, state estimates cannot be derived from the national survey results. Estimates derived from the sample are accurate at a 95% confidence interval.

Data from the YRBS are limited by their being self-reported data for which any under or over reporting cannot be accurately known. Data also apply only to youth who are in school. Surveys across sites are inconsistent due to the need to adhere to local procedures for obtaining parental consent. However, as the national YRBS surveys are conducted in Alaska, it offers the State one of a few points of comparison to youth at the national level.

Institute for Social Research at the University of Michigan. *Monitoring the Future* Available at http://monitoringthefuture.org/

Monitoring the Future (MTF) is an ongoing annual study that began in 1975 and is funded by the National Institute on Drug Abuse and conducted by the Institute for Social Research of the University of Michigan. The MTF addresses the behaviors, attitudes, and values of American youth in secondary school and college, and of young adults. The sample of secondary school youth consists of 50,000 students in grades 8, 10, and 12. Data are collected using a multi-stage random sampling design from approximately 420 public and private middle and high schools in the spring of each year. The MTF data collection process does not include youth in Alaska.

National Highway Traffic Safety Administration, National Center for Statistics and Analysis [FARS Query System]. Available at http://www-fars.nhtsa.dot.gov/QueryTool/QuerySection/SelectYear.aspx The Fatal Accident Reporting System (FARS) is managed by the National Center for Statistics Analysis (NCSA) and records fatalities caused by traffic crashes and fatalities resulting from injuries sustained during traffic crashes and that occur within 30 days of the crash date. All fatal crashes in the 50 States, the District of Columbia, and Puerto Rico are contained in FARS. Custom queries can be performed online with the FARS Query System, including univariate analyses and cross tabulations. Subsets of data may also be downloaded.

Crashes in the FARS database occur on public traffic ways and all involve at least one death that occurred within 30 days of the crash date. FARS also provides access to files that contain driver BAC estimates through report numbers DOT HS 807 094 and DOT HS 807 095

Schoellhorn, K. & Beery, A (2006). Alaska Maternal and Child Health Data Book 2005: Birth Defects Surveillance Edition. 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. Retrieved from http://www.epi.hss.state.ak.us/mchepi/mchdatabook/2005.htm

The Maternal and Child Health (MCH) Book is an annual publication by the MCH Epidemiology Unit that provides indicators of maternal and child health in Alaska. The 2005 edition includes the first comprehensive analysis of Alaska Birth Defects Registry (ABDR) data. The data for the report come from health care providers and medical records and may be affected by differences in diagnoses, record keeping, and reporting. Information on risk factors was derived from cross-referencing the ABDR databases with birth certificates, which may or may not be an accurate reflection of the prevalence of all risk factors. Causal relationships may not necessarily be assumed as intervening variables may not have been measured or analyzed.

State of Alaska Health and Social Services, Division of Public Health Chronic Disease Prevention and Health Promotion. *Alaska Youth Risk Behavior Survey*. Available at http://www.hss.state.ak.us/dph/chronic/school/YRBS.htm

The Alaska Youth Risk Behavior Survey (YRBS) is part of the Centers for Disease Control and Prevention Youth Risk Behavior Surveillance System (YRBSS). The Alaska YRBS monitors youth risk behaviors that for the most prevalent health and social problems relating to adolescence, with the purpose of promoting planning and evaluation for prevention and intervention. The YRBS is an anonymous school-based survey of youth in

The Alaska YRBS was administered in 1995, 1999, 2001, 2003, 2005, 2007, and 2009, with representative data collected in 1995, 2003, 2007, and 2009.

The 2009 Alaska YRBS included a sample of 1,373 students from 43 high schools that are representative of all public high schools in the State in grades 9 through 12. The 2009 survey also included 1,020 students from 15 alternative high schools in Alaska.

Substance Abuse and Mental Health Services Administration, Office of Applied Studies. *National Survey on Drug Use and Health*. Available at http://www.oas.samhsa.gov/nsduh.htm The National Survey on Drug Use and Health (NSDUH) is funded by the Substance Abuse and Mental Health Services Administration and is currently administered by Research Triangle Institute. The NSDUH is a primary source of data about, among other data elements, national and state-level alcohol consumption in the United States. The NSDUH uses a sample of approximately 67, 500 noninstitutionalized Americans ages 12 and older who are contacted for face-to-face interviews. Comparisons described in the report are statistically significant at the .05 level, unless otherwise stated. Due to methodological differences between survey years, NSDUH data from 2002 and later cannot be compared with those from 2001 and earlier to assess changes overtime.