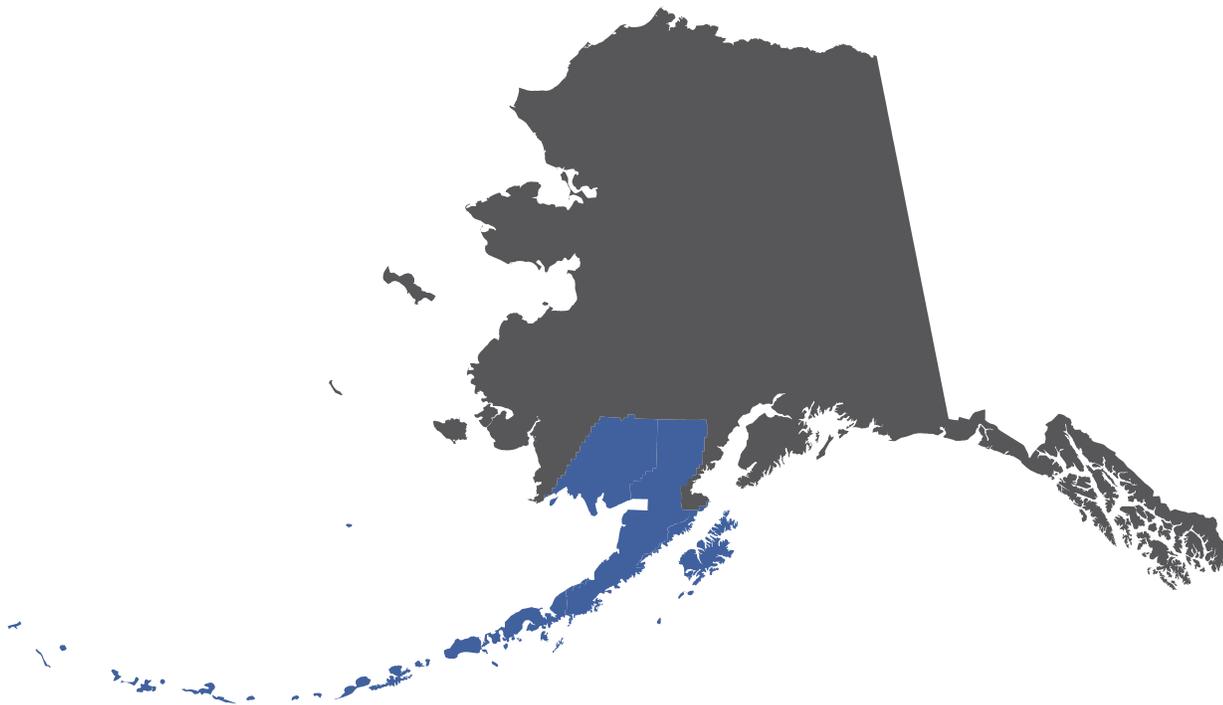


# Alaska Behavioral Health System Assessment

## Regional Data Report 2009-2013



SOUTHWEST REGION

Prepared for the Alaska Mental Health Trust Authority  
by Agnew::Beck Consulting, LLC and Hornby Zeller Associates, Inc.  
Updated 10.29.15

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## Acknowledgements



This assessment and accompanying series of data reports are the product of many years of effort and would not have been possible without a small army of individuals. Agnew::Beck and Hornby Zeller Associates would like to express our gratitude to our data committee members, as well as the many staff from the Alaska Department of Health Social Services Division of Behavioral Health and Section of Chronic Disease and Health Promotion who helped inform and/or assisted with the production these reports. These individuals are listed below. Two individuals, in particular, dedicated tremendous time and energy to these efforts and we could not be more appreciative of their wisdom and constant support over the course of the past year plus. Thank you, Kathleen Carls and Michael Baldwin!

### DATA COMMITTEE MEMBERS

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We would also like to thank Bill Herman, Former Senior Program Officer at the Alaska Mental Health Trust Authority, who was instrumental in the early data planning phases of this project.

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We also received valuable input and insights from a number of DBH Program Staff throughout the course of this effort as we sought to make sense of the data and we are very grateful for the time and efforts of these individuals.

## REGIONAL DATA REPORTS: BRIEF OVERVIEW OF ANALYSES AND SOURCES

Hornby Zeller Associates, Inc. (HZA) led the quantitative analyses for this project. A quantitative data committee, led by Kathleen Carls, DBH's Research Unit Manager, worked closely with the contract team throughout the direction of this project to ensure the accuracy and integrity of the data produced and to assist with analyses. Agnew::Beck worked closely with DBH and HZA to coordinate quality assurance and to develop the tables and charts included in this report.

### *Reporting Regions*

Borough and census area boundaries were used to create reporting regions with at least 20,000 residents for each of the five years considered in this analysis to ensure compliance with HIPAA reporting requirements for protected health information. These regions have been used historically by DBH when conducting regional analyses. Reporting regions and their corresponding population estimates for each of the years covered by this analysis are illustrated in Figure 1.

### *Prevalence Tables*

Together with DBH, the project team produced the following:

- Adults: Regional and statewide estimates of the number of Alaska adults that have behavioral health issues were generated statewide and for each region.

- Youth: Regional and statewide estimates of the prevalence of reported risk behaviors among high school students, including rates for having a substance use risk behavior present; a substance use moderate/high risk behavior; a past year mental health issue; a past year mental health issue and substance use moderate/high risk behavior present.
- Youth: Regional and statewide estimates of children ages 9-12 with Severe Emotional Disturbance.
- Youth: Statewide prevalence rates for youth ages 12-17 who needed treatment for illicit drug or alcohol use in the past year (Substance Use Disorder).

## Sources

- Substance Abuse Prevalence Rates: SAMHSA, Center for Behavioral Health Statistics and Quality (CBHSQ), National Survey on Drug Use and Health, 2009-2010 (revised 3/12), and 2011; Alaska NSDUH, DBH Special Data Request April 2014.
- Mental Health and Co-Occurring Prevalence Rates: SAMHSA, Center for Behavioral Health Statistics and Quality (CBHSQ), National Survey on Drug Use and Health, 2009-2011 (revised 10/13); Alaska NSDUH, DBH Special Data Request April 2014.
- Alaska Youth Risk Behavior Survey, Section of Chronic Disease Prevention and Health Promotion, Division of Public Health, Alaska Department of Health and Social Services, 2015.
- Alaska Department of Labor 2013 population estimates by gender, age and race for each reporting region.
- U.S. Census Poverty data.

## Service Utilization and Cost Analyses

The project team analyzed data from Alaska's various administrative systems to determine the services used, by whom, where and at what cost between State Fiscal Years 2009 and 2013. To facilitate analysis, HZA developed a Microsoft Access database capable of merging and de-duplicating the records from the sources listed above. Agnew::Beck helped to coordinate extensive quality assurance efforts with HZA and DBH to ensure integrity and accuracy of all reports.

## Sources

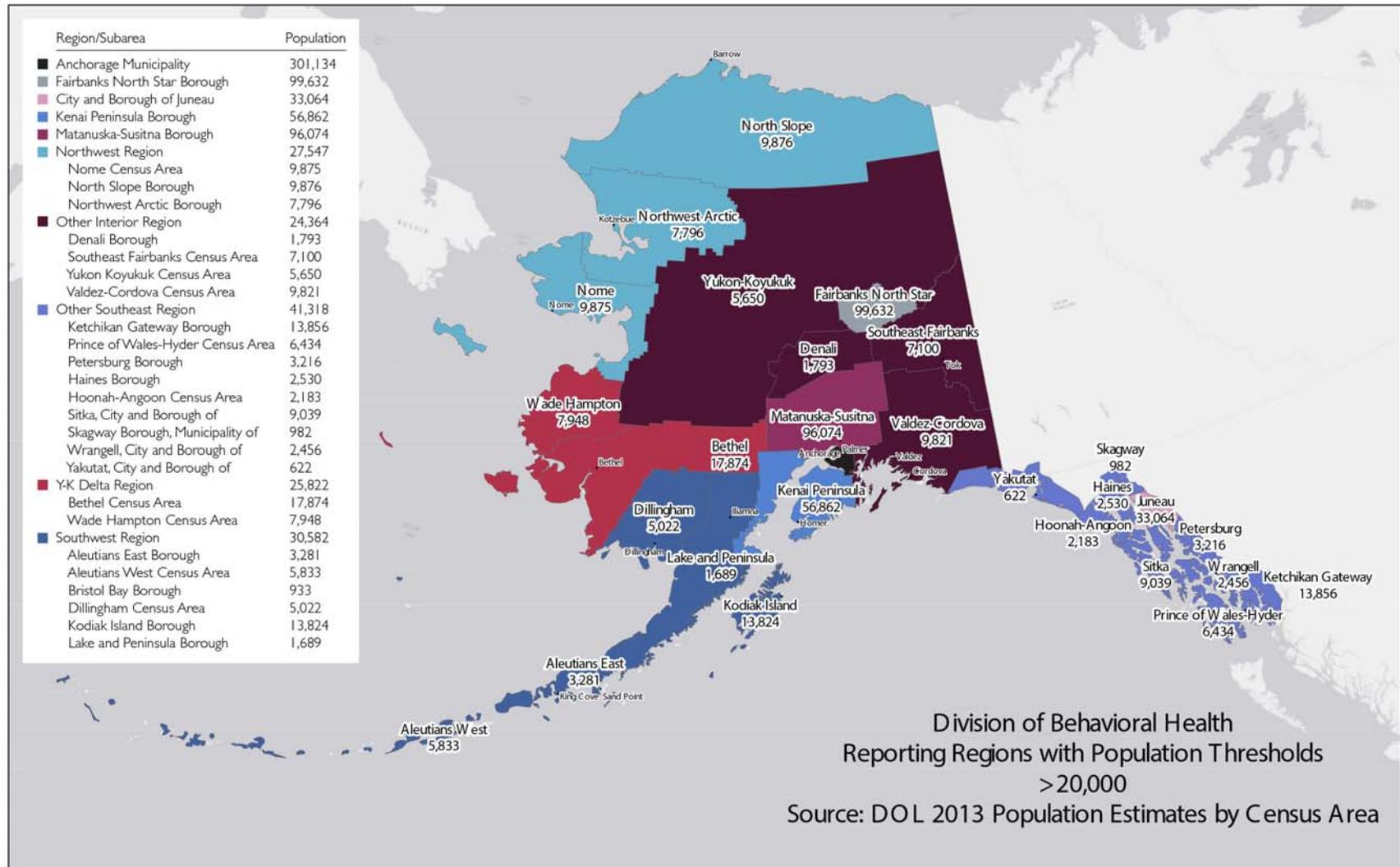
2009-2013 data extracts of the following data sets were used:

- The Alaska Medicaid Management Information System (MMIS) Juneau Claims and Eligibility or "JUCE" database,
- Alaska's Automated Information Management System (AKAIMS), including data from agencies that submit data through an electronic data interface (EDI);
- Alaska Psychiatric Institute's (API) electronic health record system, Meditech; and,
- Division of Behavioral Health's Designated Evaluation and Treatment (DET) Program database.
- The Medicaid JUCE dataset included claims data for all individuals who received services from behavioral health-specific provider types and for individuals who received services from other providers of behavioral health services and had a primary or secondary behavioral health

diagnosis. The DET dataset included only clients who received hospital services that were paid for by the Division of Behavioral Health (clients receiving only transport services were excluded). The API Meditech dataset included only partial data for 2009. The Alaska Department of Health and Social Services' Division of Behavioral Health provided all data.

- Division of Behavioral Health 2013 Grant Award Data.

Figure 1 Map of Behavioral Health Systems Assessment Reporting Regions



# Adult Prevalence Estimates

Figure 2 Southwest Adult Behavioral Health Issues Prevalence (2013)

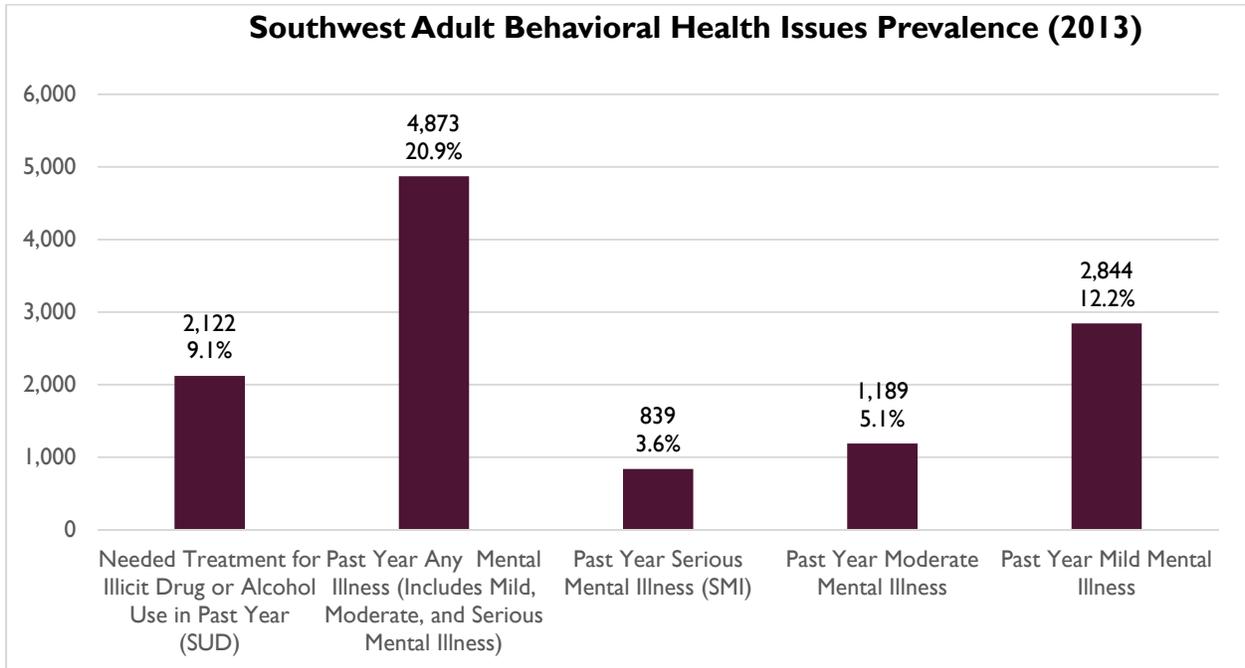
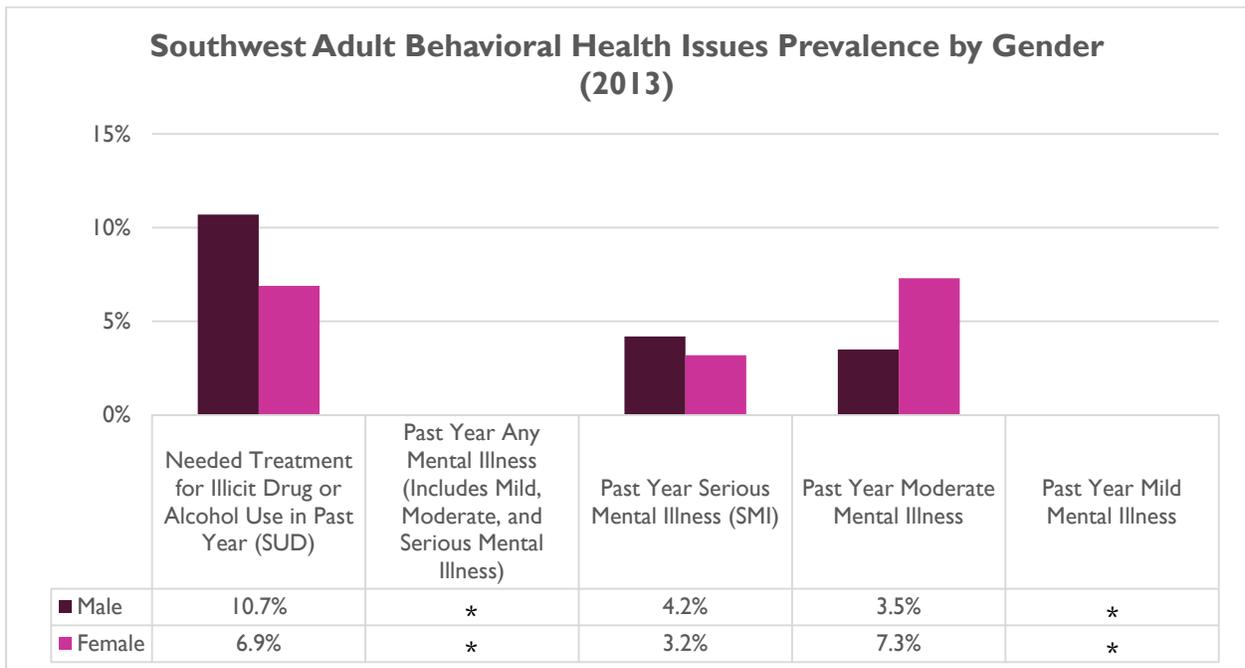


Figure 3 Southwest Adult Behavioral Health Issues Prevalence by Gender (2013)



**Figure 4 Southwest Adult Behavioral Health Issues Prevalence by Race (2013)**

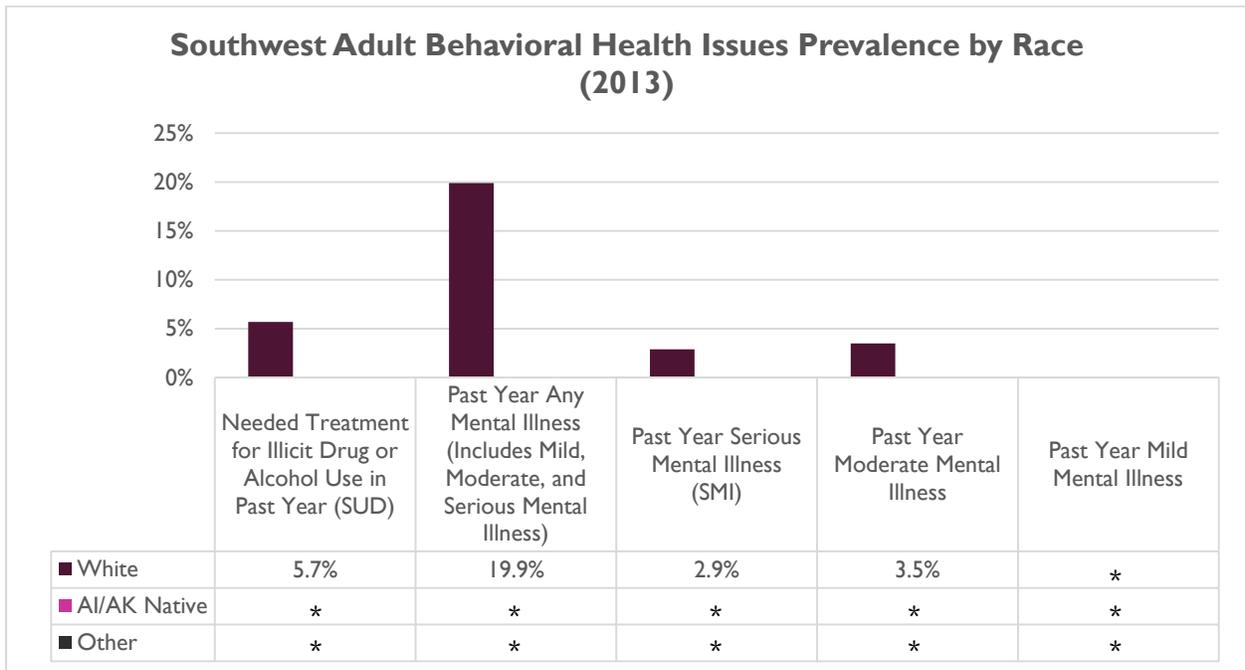


Figure 5 Alaska and Northwest Adults Behavioral Health Issues Prevalence (2013)

| Alaska and Southwest Adult Behavioral Health Issues Prevalence |   |       |  |       |  |       |                                   |       |                               |       |        |
|--|---|-------|--|-------|--|-------|-----------------------------------|-------|-------------------------------|-------|--------|
| Total Population (2013)  | Needed Treatment for Illicit Drug or Alcohol Use in Past Year (SUD) |       | Past Year Any Mental Illness (Includes Mild, Moderate, and Serious Mental Illness) |       | Past Year Serious Mental Illness (SMI) |       | Past Year Moderate Mental Illness |       | Past Year Mild Mental Illness |       |        |
|  | Rate  | Count | Rate   | Count | Rate                                   | Count | Rate                              | Count | Rate                          | Count |        |
| <b>Adults</b>  |   |       |  |       |  |       |                                   |       |                               |       |        |
| Alaska   | 546,215   | 11.5% | 62,815   | 19.4% | 105,966                                | 3.9%  | 21,302                            | 4.3%  | 23,487                        | 11.2% | 61,176 |
| Southwest  | 23,314  | 9.1%  | 2,122  | 20.9% | 4,873                                  | 3.6%  | 839                               | 5.1%  | 1,189                         | 12.2% | 2,844  |
| <b>Southwest – Adults by Gender</b>                            |   |       |  |       |  |       |                                   |       |                               |       |        |
| Male   | 13,507  | 10.7% | 1,445  | *     | *                                      | 4.2%  | 567                               | 3.5%  | 473                           | *     | *      |
| Female   | 9,807   | 6.9%  | 677  | *     | *                                      | 3.2%  | 314                               | 7.3%  | 716                           | *     | *      |
| <b>Southwest – Adults By Race**</b>                            |   |       |  |       |  |       |                                   |       |                               |       |        |
| White  | 10,305  | 5.7%  | 587  | 19.9% | 2,051                                  | 2.9%  | 299                               | 3.5%  | 361                           | *     | *      |
| AI or AK Native  | 6,606   | *     | *  | *     | *                                      | *     | *                                 | *     | *                             | *     | *      |
| Other  | 6,403   | *     | *  | *     | *                                      | *     | *                                 | *     | *                             | *     | *      |

Notes: Rates are based on Alaska-specific National Survey on Drug Use and Health (NSDUH) data for the adult (18+) population. The survey is conducted annually by the Substance Abuse and Mental Health Services Administration (SAMHSA) using a sampling methodology in order to estimate prevalence. SAMHSA, CBHSQ 2009-2011 estimated annual average prevalence rates for the DBH Planning Regions were applied to the associated Reporting Regions. The region rates were then multiplied by the DOL 2013 populations estimates to determine the estimated 2013 prevalence numbers. The asterisks (\*) indicates data suppressed by CBHSQ due to low precision. In some instances, it was possible to estimate a suppressed value by calculated the rate based on the estimated 2013 prevalence numbers. All cells calculated with this methodology are highlighted in blue and should be considered with extra caution.

CBHSQ classified respondents as needing treatment for an illicit drug or alcohol problem if they met at least one of three criteria during the past year: (1) dependent on illicit drugs or alcohol; (2) abuse of illicit drugs or alcohol; or (3) received treatment for illicit drug or alcohol use at a specialty facility (i.e., drug and alcohol rehabilitation facility [inpatient or outpatient], hospital [inpatient], or mental health center). Illicit Drugs include marijuana/hashish, cocaine (including crack), heroin, hallucinogens, inhalants, or prescription-type psychotherapeutics used nonmedically, including data from original methamphetamine questions but not including new methamphetamine items added in 2005 and 2006.

Mental Illness is defined as having a diagnosable mental, behavioral, or emotional disorder, other than a developmental or substance use disorder that met the criteria found in the 4th edition of the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV). Three categories of mental illness severity are defined based on the level of functional impairment: mild mental illness, moderate mental illness, and serious mental illness. Any mental illness includes persons in any of the three categories.

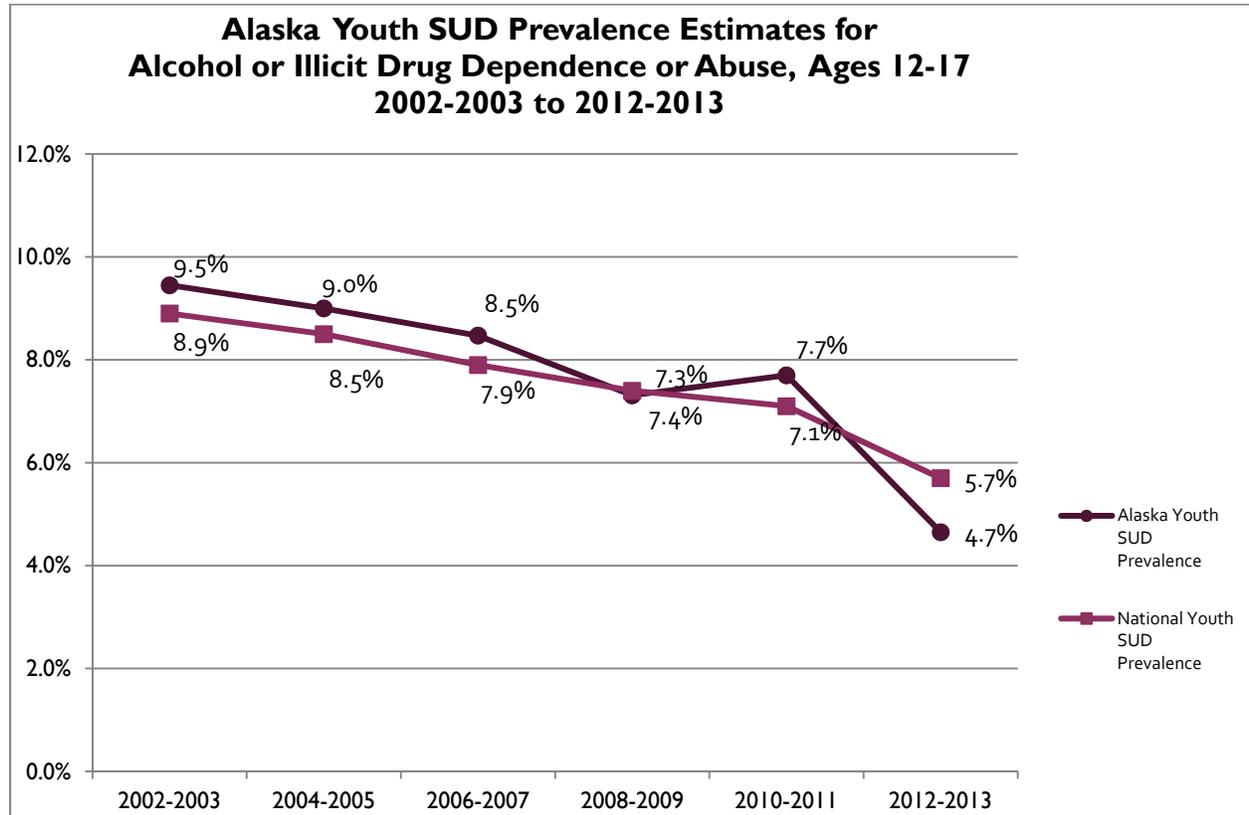
\*\*Other Race includes Black or African American, Native Hawaiian or Other Pacific Islander, Asian, and Two or More Races with no selection of American Indian or Alaskan Native.

Source for Substance Abuse Prevalence Rates: SAMHSA, Center for Behavioral Health Statistics and Quality (CBHSQ), National Survey on Drug Use and Health, 2009-2010 (revised 3/12), and 2011; Alaska NSDUH, DBH Special Data Request April 2014.

Source for Mental Health and Co-Occurring Prevalence Rates: SAMHSA, Center for Behavioral Health Statistics and Quality (CBHSQ), National Survey on Drug Use and Health, 2009-2011 (revised 10/13); Alaska NSDUH, DBH Special Data Request April 2014.

# Youth Prevalence Estimates

Figure 6 Alaska Youth SUD Prevalence Estimates for Alcohol or Illicit Drug Dependence or Abuse, Ages 12-17 2002-2003 to 2012-2013



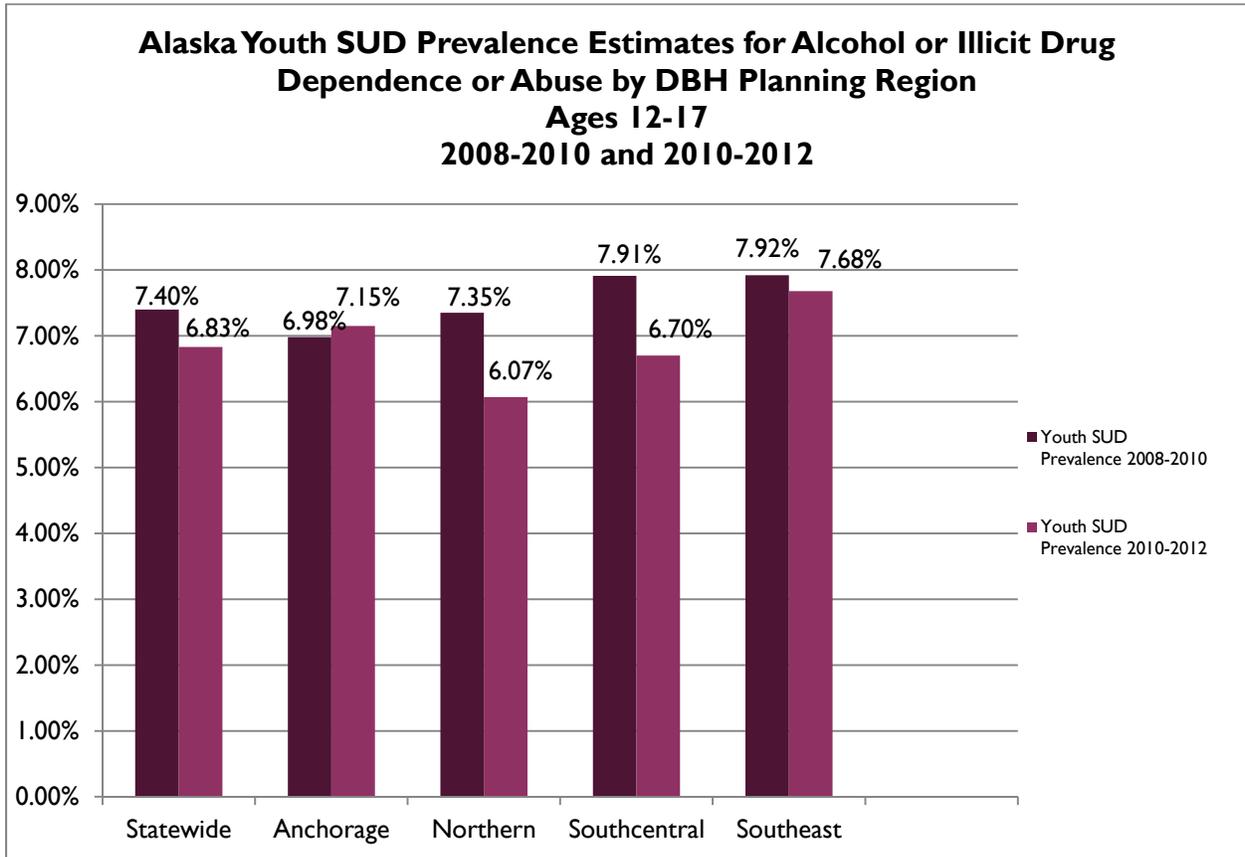
Data from SAMHSA, Center for Behavioral Health Statistics and Quality (CBHSQ), National Survey on Drug Use and Health (NSDUH) - Alaska 2 yr State Estimates; provided by the State of Alaska Division of Behavioral Health June 2015.

*NOTE: Illicit Drugs include marijuana/hashish, cocaine (including crack), heroin, hallucinogens, inhalants, or prescription-type psychotherapeutics used nonmedically. Illicit Drugs Other Than Marijuana include cocaine (including crack), heroin, hallucinogens, inhalants, or prescription-type psychotherapeutics used nonmedically. These estimates include data from original methamphetamine questions but not including new methamphetamine items added in 2005 and 2006. See Section B.4.8 in Appendix B of the Results from the 2008 National Survey on Drug Use and Health: National Findings.*

<sup>1</sup>Dependence or Abuse is based on definitions found in the 4th edition of the Diagnostic and Statistical Manual of Mental Health Disorders (DSM-IV)

SAMHSA, Center for Behavioral Health Statistics and Quality, National Survey on Drug Use and Health, 2002-2013  
<http://www.samhsa.gov/data/population-data-nsduh/reports>

**Figure 7 Alaska Youth SUD Prevalence Estimates for Alcohol or Illicit Drug Dependence or Abuse by DBH Planning Region, Ages 12-17, 2008-2010 and 2010-2012**



Data from SAMHSA, Center for Behavioral Health Statistics and Quality (CBHSQ), National Survey on Drug Use and Health (NSDUH) - Alaska 3 yr State Estimates; provided by the State of Alaska Division of Behavioral Health June 2015.

Anchorage Planning Region corresponds with Municipality of Anchorage Reporting Region.

Northern Planning Region includes Fairbanks, Northwest, Other Interior, and Y-K Delta Reporting Regions.

Southcentral Planning Region includes Southwest, Kenai Peninsula Borough, and Mat-Su Reporting Regions.

Southeast Planning Region includes City and Borough of Juneau and Other Southeast Reporting Region.

Figure 8 Estimated Prevalence or Serious Emotional Disturbance (SED) Among Children Ages 9-17

| <b>Estimated Prevalence of Serious Emotional Disturbance (SED)<br/>                     Among Children Ages 9-17<br/>                     Statewide and by Region</b> |  |        |   |                                |                                    |
|---|--|--------|---|--------------------------------|------------------------------------|
| Region  | Percent in poverty age 5-17 SAIPE US Census 2012 | Tier * | Rate in poverty with Level of Function score ≤ 50 | 2013 Population age 9-17 (DOL) | Estimated SED Prevalence Ages 9-17 |
| Alaska  | 0.130  | Low    | 0.060   | 92,501                         | 5,550                              |
| Anchorage, Municipality of  | 0.107  | Low    | 0.060   | 37,151                         | 2,229                              |
| Fairbanks North Star Borough  | 0.122  | Low    | 0.060   | 11,768                         | 706                                |
| Juneau, City and Borough of   | 0.082  | Low    | 0.060   | 3,743                          | 225                                |
| Kenai Peninsula Borough   | 0.120  | Low    | 0.060   | 6,668                          | 400                                |
| Matanuska-Susitna Borough   | 0.106  | Low    | 0.060   | 13,416                         | 805                                |
| Northern Region   | 0.258  | High   | 0.080   | 3,934                          | 315                                |
| Other Interior Region   | 0.150  | Mid    | 0.070   | 3,078                          | 215                                |
| Other Southeast Region  | 0.141  | Low    | 0.060   | 4,584                          | 275                                |
| Y-K Delta Region  | 0.333  | High   | 0.080   | 4,605                          | 368                                |
| Southwest Region  | 0.136  | Low    | 0.060   | 3,549                          | 213                                |
| * Rankings are as follows:<br>Low    0% - 14.9%    6%<br>Mid    15.0% - 19.8%    7%<br>High    19.9% and up    8%   |  |        |   |                                |                                    |

General notes: Estimates of Serious Emotional Disturbance were generated using a methodology recommended by the Center for Mental Health Services (CMHS) for state to state comparisons and adapted to generate rates specific to reporting regions.

# Youth Risk Estimates

**Figure 9 Youth Behavior Health Risk Behaviors and Issues Prevalence Indicator Methodology**

| YRBS Variable                                      | Methodology  | Interpretation  |
|--|--|---|
| <b>Substance Use – Risk Behavior Present</b>       | Percentage of students who are considered to have a risk behavior present. A respondent was categorized as having a “risk behavior present” if they met the criteria for one or both of the below criteria:<br>Used cocaine, inhalants, heroin, methamphetamines, or ecstasy at least once in their life OR used marijuana, unprescribed drugs, or at least one drink of alcohol on at least one of the past 30 days   | This variable is very inclusive and does not necessarily indicate a need for services. However, it does provide a basis for understanding trends in “any substance use” among students. This population would likely benefit from universal prevention activities.  |
| <b>Substance Use – Moderate/High Risk Behavior</b> | Percentage of students who are considered to have moderate/high risk behavior. A respondent was categorized as having “moderate/high risk behavior” if they met the criteria for one or more of the below:<br>Used cocaine, inhalants, heroin, methamphetamines, or ecstasy drugs three or more times for at least one of the drugs in their life OR had five or more drinks of alcohol in a row within a couple of hours two or more times in the past 30 days OR used marijuana and unprescribed drugs three or more times in the past 30 days | This variable was developed to hone in on the student population with moderate to high risk behaviors. Students exhibiting one or more of these criteria may be more likely to need substance use treatment services now or in the future. This population would likely benefit from selective and indicated prevention activities. |
| <b>Past Year Mental Health Issue</b>               | Percentage of students who felt so sad or hopeless almost every day for two weeks or more in a row that they stopped doing some usual activities during the past 12 months OR who had seriously considered attempting suicide during the past 12 months.   | This variable may indicate a need for mental health treatment.  |
| <b>Past Year Mental Health Issue and SUD (COD)</b> | Percentage of students who used marijuana, cocaine, solvents, heroin, methamphetamines, ecstasy, unprescribed drugs five or more times in their life OR who had five or more drinks of alcohol in a row within a couple of hours on at least one of the past 30 days AND who felt so sad or hopeless almost every day for two weeks or more in a row that they stopped doing some usual activities during the past 12 months OR who had seriously considered attempting suicide during the past 12 months.                                       | This variable captures all students who might need services for both mental health treatment and substance use treatment.   |

Figure 10 Southwest Youth Behavioral Health Risk Prevalence (2013)

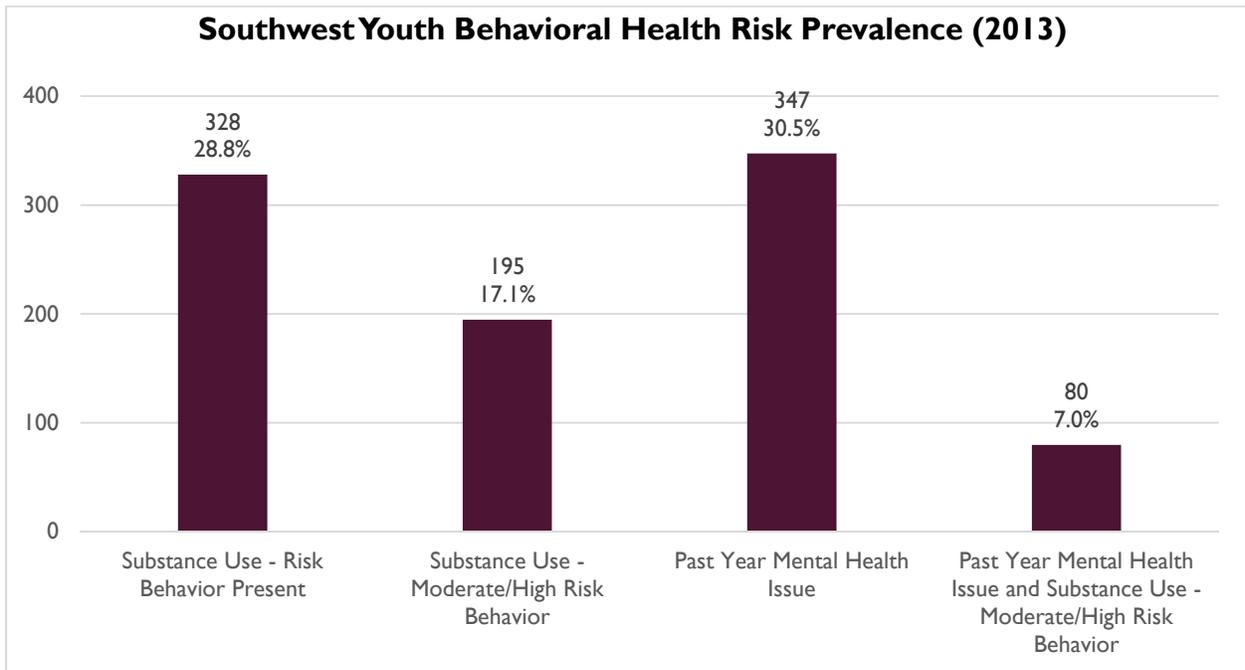


Figure 11 Southwest Youth Behavioral Health Risk Prevalence by Gender (2013)

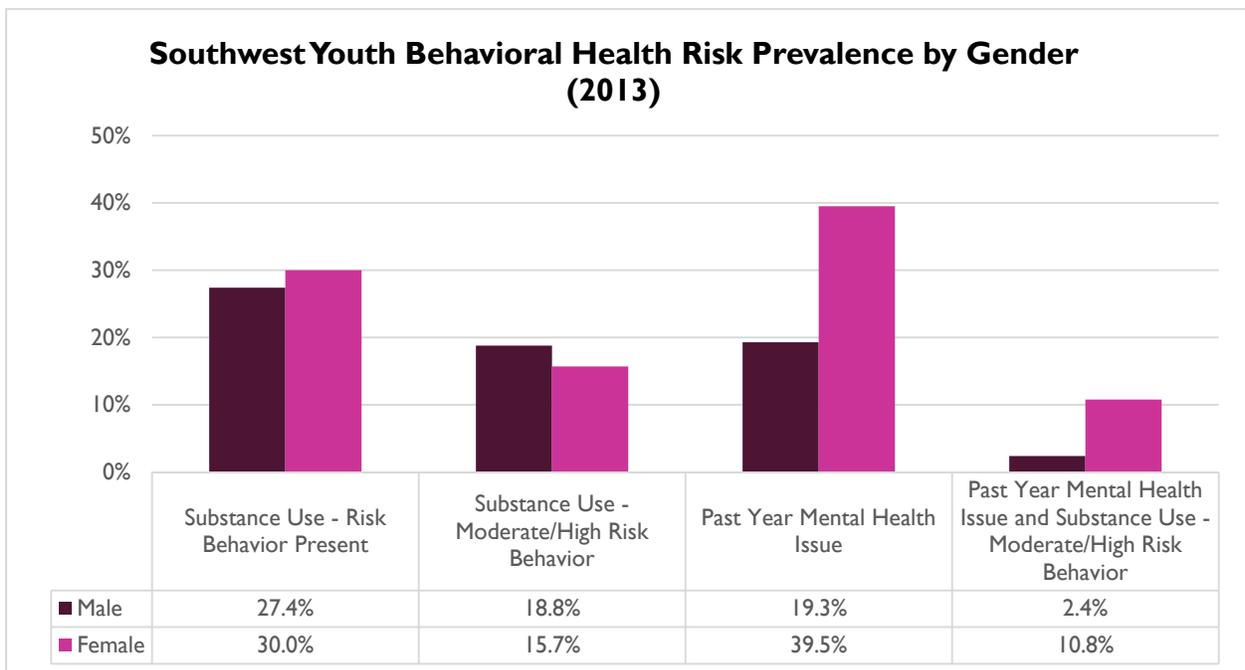


Figure 12 Southwest Youth Behavioral Health Risk Prevalence by Race (2013)

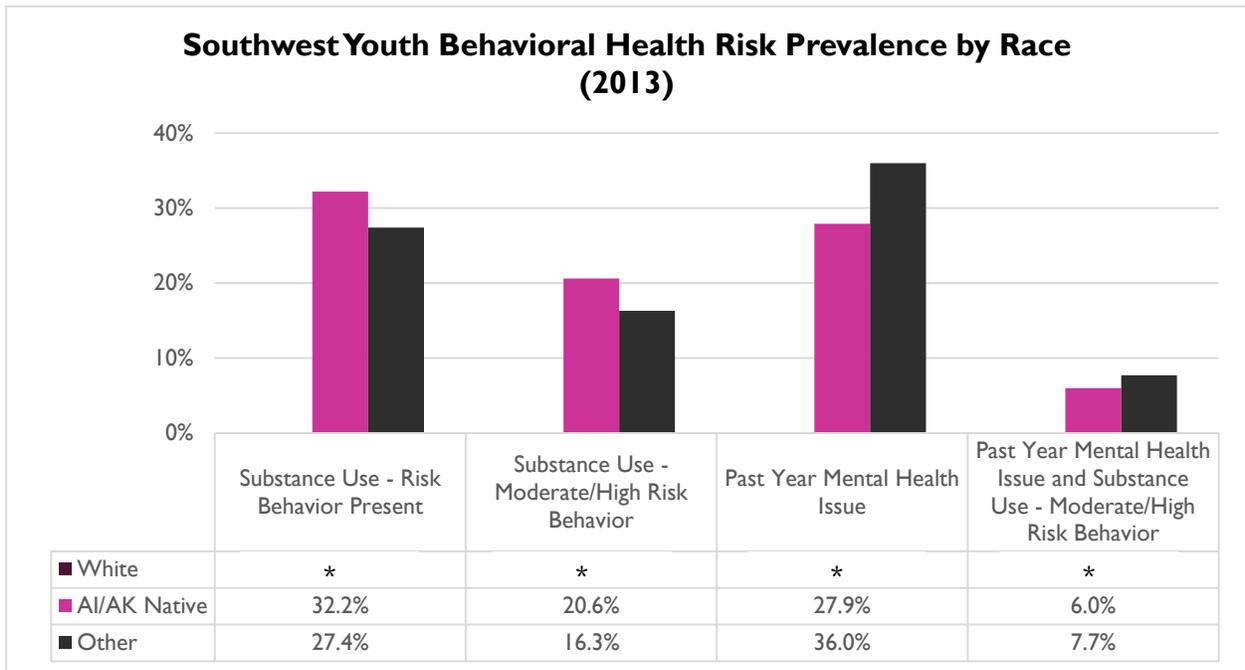


Figure 13 Alaska and Southwest Region Prevalence of Youth Behavioral Health Risk Behaviors and Issues

| Alaska and Southwest Region<br>Prevalence of Youth Behavioral Health Risk Behaviors and Issues |  |       |       |  |       |                                    |       |  |       |
|--|--|-------|-------|--|-------|------------------------------------|-------|--|-------|
| Total Population (2013 School Enrollments)   | Substance Use - Risk Behavior Present YRBS |       |       | Substance Use - Moderate/High Risk Behavior YRBS |       | Past Year Mental Health Issue YRBS |       | Past Year Mental Health Issue and Substance Use - Moderate/High Risk Behavior YRBS |       |
|  | Rate                                       | Count | Rate  | Count  | Rate  | Count                              | Rate  | Count  |       |
| <b>Youth</b>   |  |       |       |  |       |                                    |       |  |       |
| <i>Alaska*</i>   | 25,225                                     | 0.335 | 8,450 | 0.184  | 4,641 | 0.286                              | 7,214 | 0.095  | 2,396 |
| <i>Southwest**</i>   | 1,139                                      | 0.288 | 328   | 0.171  | 195   | 0.305                              | 347   | 0.070  | 80    |
| <b>Southwest – Youth by Gender</b>   |  |       |       |  |       |                                    |       |  |       |
| <b>Male</b>  | 596  | 0.274 | 163   | 0.188  | 112   | 0.193                              | 115   | 0.024  | 14    |
| <b>Female</b>  | 543  | 0.300 | 163   | 0.157  | 85    | 0.395                              | 214   | 0.108  | 59    |
| <b>Southwest – Youth By Race***</b>  |  |       |       |  |       |                                    |       |  |       |
| <b>White</b>   | 293  | DSU   | -     | DSU  | -     | DSU                                | -     | DSU  | -     |
| <b>AI or AK Native</b>   | 508  | 0.322 | 164   | 0.206  | 105   | 0.279                              | 142   | 0.060  | 30    |
| <b>Other</b>   | 338  | 0.274 | 93    | 0.163  | 55    | 0.360                              | 122   | 0.077  | 26    |

General Notes: Data restricted to respondents in 2013 with valid responses to all questions and providing gender. Counts may not sum to total for state due to rounding of the rates.

DSU: Data are statistically unreliable due to insufficient (i.e., less than 100) responses. No counts can be estimated.

\* Weighted results for statewide traditional high school students.

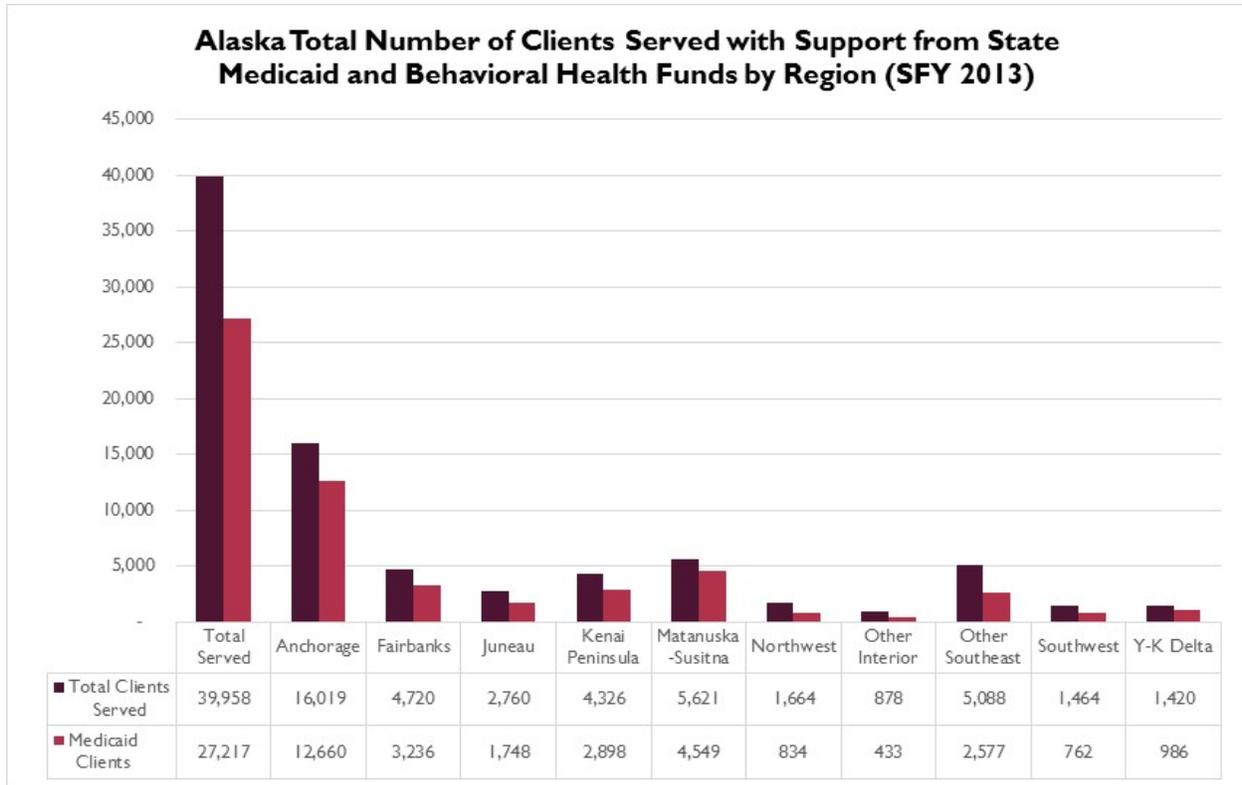
\*\* Combined weighted and unweighted results for regional traditional, alternative, residential, vocational, and correctional high school students. Data are weighted if response rates of 60% were obtained for samples or 50% for census of students.

\*\*\*Race based upon white (only, non-Hispanic), American Indian or Alaska Native (any mention), and other consisting of other races, multi-racial, or unknown responses.

Source: Alaska Youth Risk Behavior Surveillance System, Section of Chronic Disease Prevention and Health Promotion, Division of Public Health, Alaska Department of Health and Social Services, 2015.

# Total Client Utilization Trends

**Figure 14 Alaska Total Number of Clients Served with Support from State Medicaid and Behavioral Health Funds by Region (SFY 2013)**



Note: Utilization data in this and subsequent charts is based on service location (not the client’s home community) unless otherwise noted.

Data Sources: All utilization figures and tables are based on combined service data by state fiscal year from the Alaska Automated Information Management System (AKAIMS), including data from agencies that submit data through an electronic data interface (EDI); the Alaska Psychiatric Institute electronic health record system - Meditech; the DBH Designated Evaluation & Treatment (DET) databases; and the Alaska Medicaid JUCE database. Client counts represent unduplicated counts. The Medicaid JUCE dataset included claims data for all individuals who received services from behavioral health specific provider types and for individuals who received services from other providers of behavioral health services and they had a primary or secondary behavioral health diagnosis. The DET dataset included only clients who received hospital services that were paid for by the Division of Behavioral Health (clients receiving only transport services were excluded.) All data was provided by the Alaska Department of Health and Social Services’ Division of Behavioral Health.

Figure 15 Alaska Total Number of Clients Served with Support from State Medicaid and Behavioral Health Funds by Provider Type (SFY 2013)

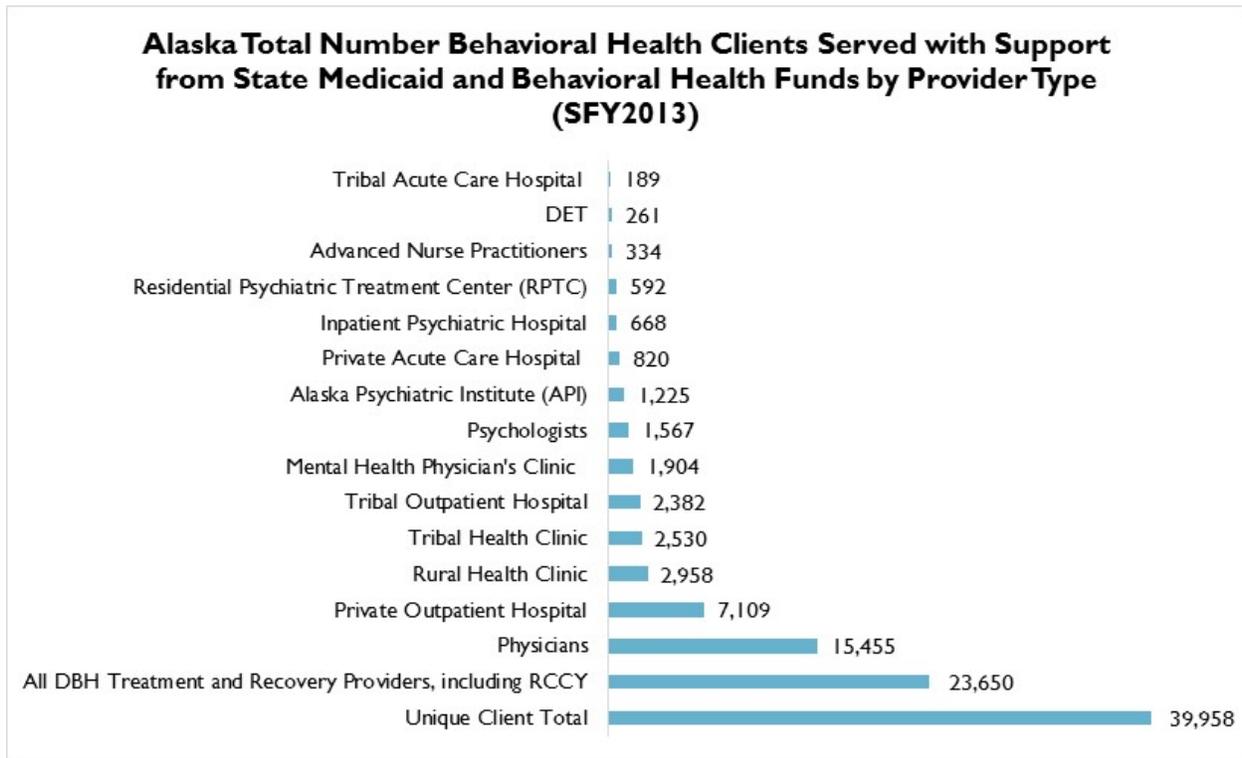
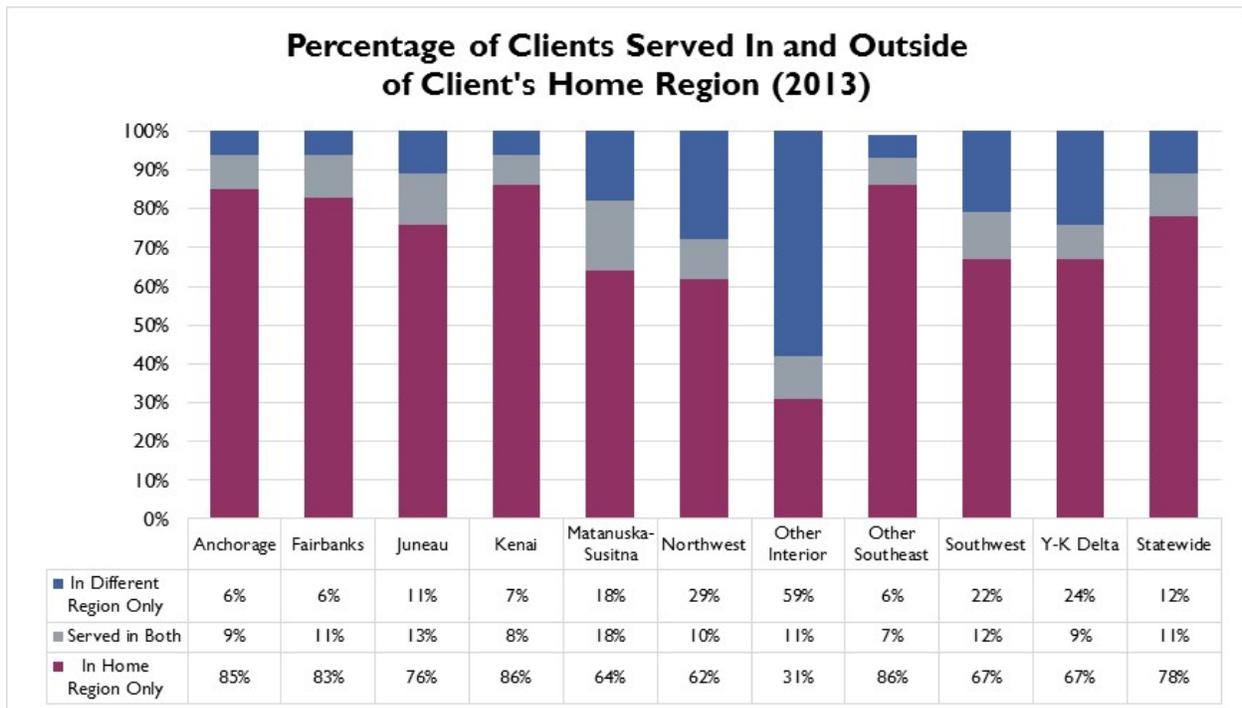
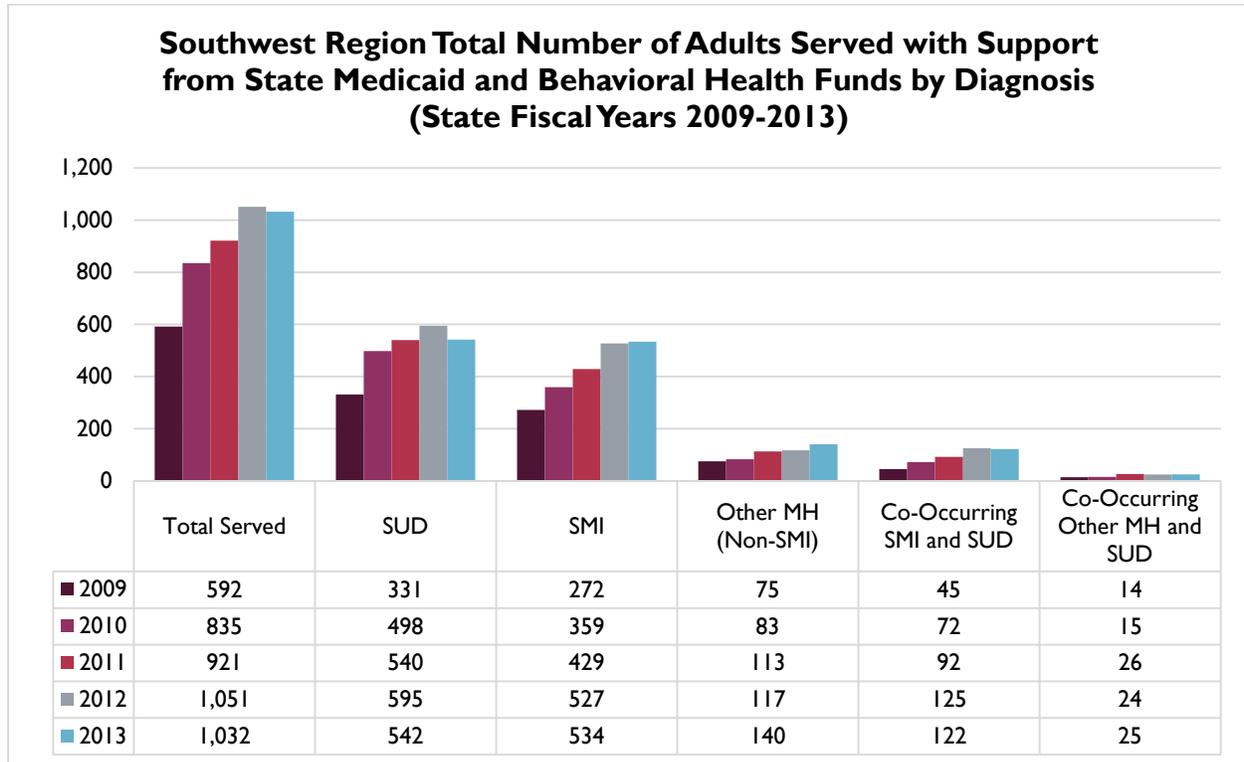


Figure 16 Percentage of Clients Served In and Outside of Client's Home Region (2013)



## Adult Utilization Trends

Figure 17 Southwest Region Total Number of Adults Served with Support from State Medicaid and Behavioral Health Funds by Diagnosis (State Fiscal Years 2009-2013)



**Figure 18 Southwest Region Total Number of Adults Served with Support from State Medicaid and Behavioral Health Funds by Diagnosis and Gender (State Fiscal Years 2009 & 2013)**

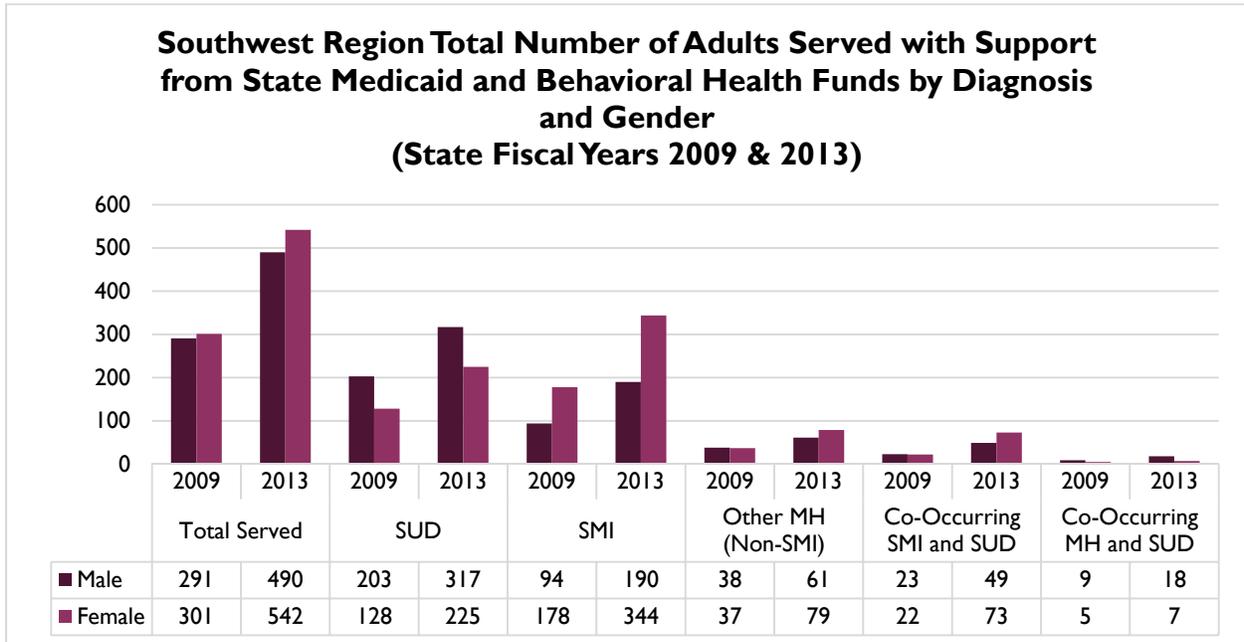
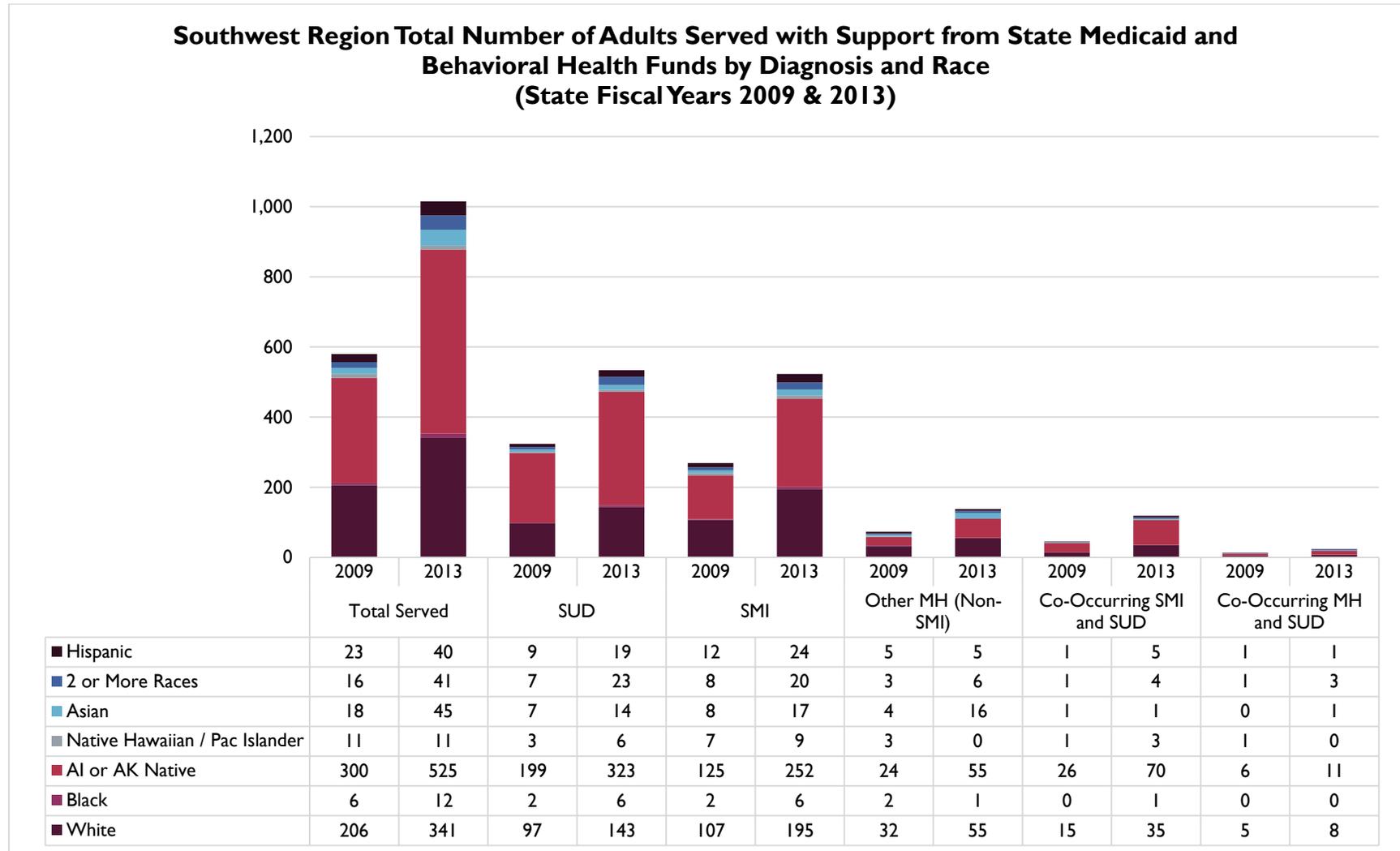
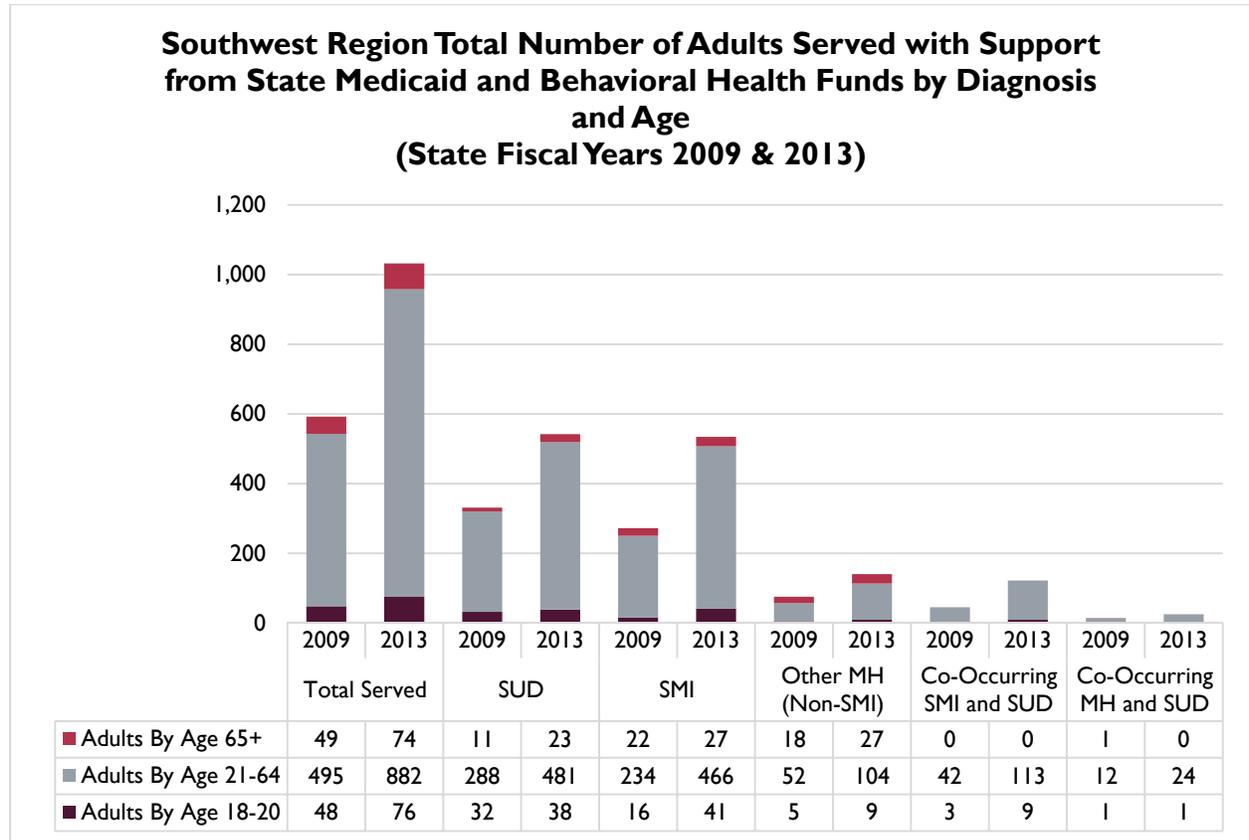


Figure 19 Southwest Region Total Number of Adults Served with Support from State Medicaid and Behavioral Health Funds by Diagnosis and Race (State Fiscal Years 2009 & 2013)



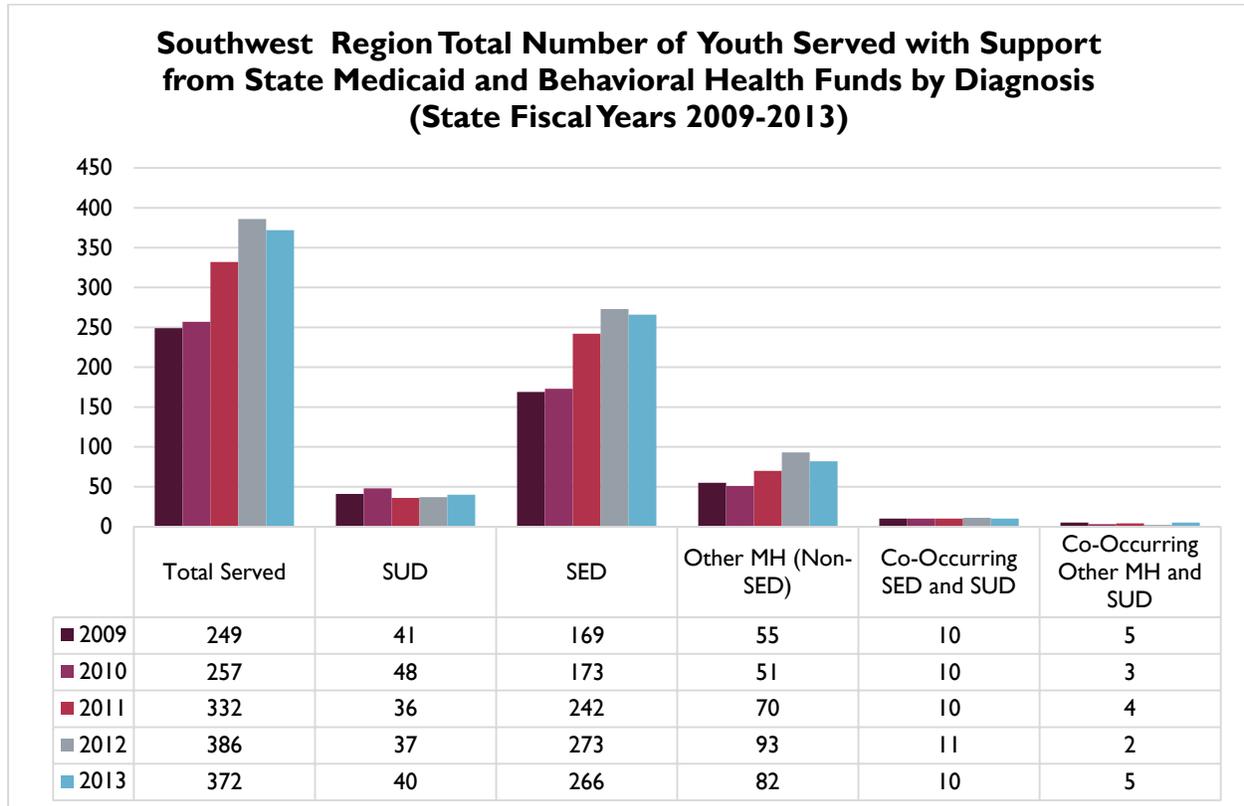
Note: The "2 or More Race" category includes a significant proportion of adults who specify Alaska Native as one of two or more races.

**Figure 20 Southwest Region Total Number of Adults Served with Support from State Medicaid and Behavioral Health Funds by Diagnosis and Age (State Fiscal Years 2009 & 2013)**



## Youth Utilization Trends

Figure 21 Southwest Region Total Number of Youth Served with Support from State Medicaid and Behavioral Health Funds by Diagnosis (State Fiscal Years 2009-2013)



**Figure 22 Southwest Region Total Number of Youth Served with Support from State Medicaid and Behavioral Health Funds by Diagnosis and Gender (State Fiscal Years 2009 & 2013)**

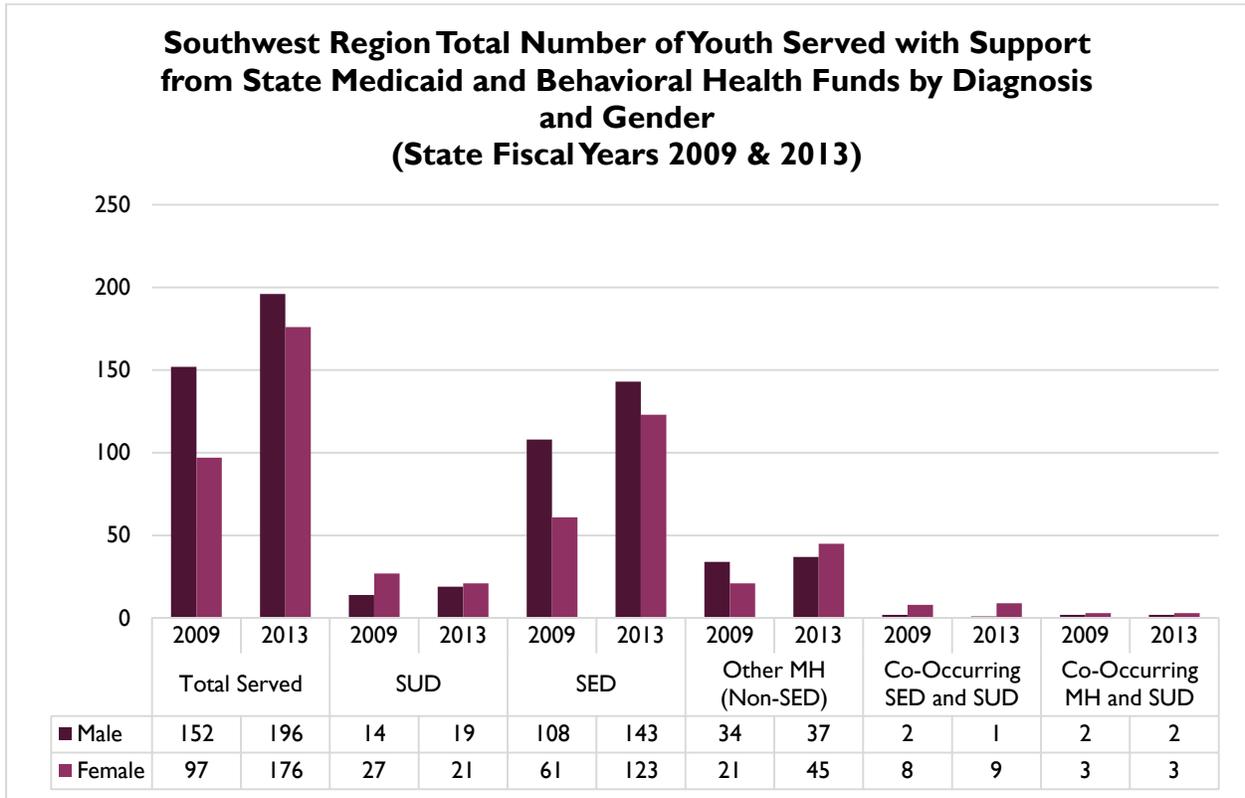
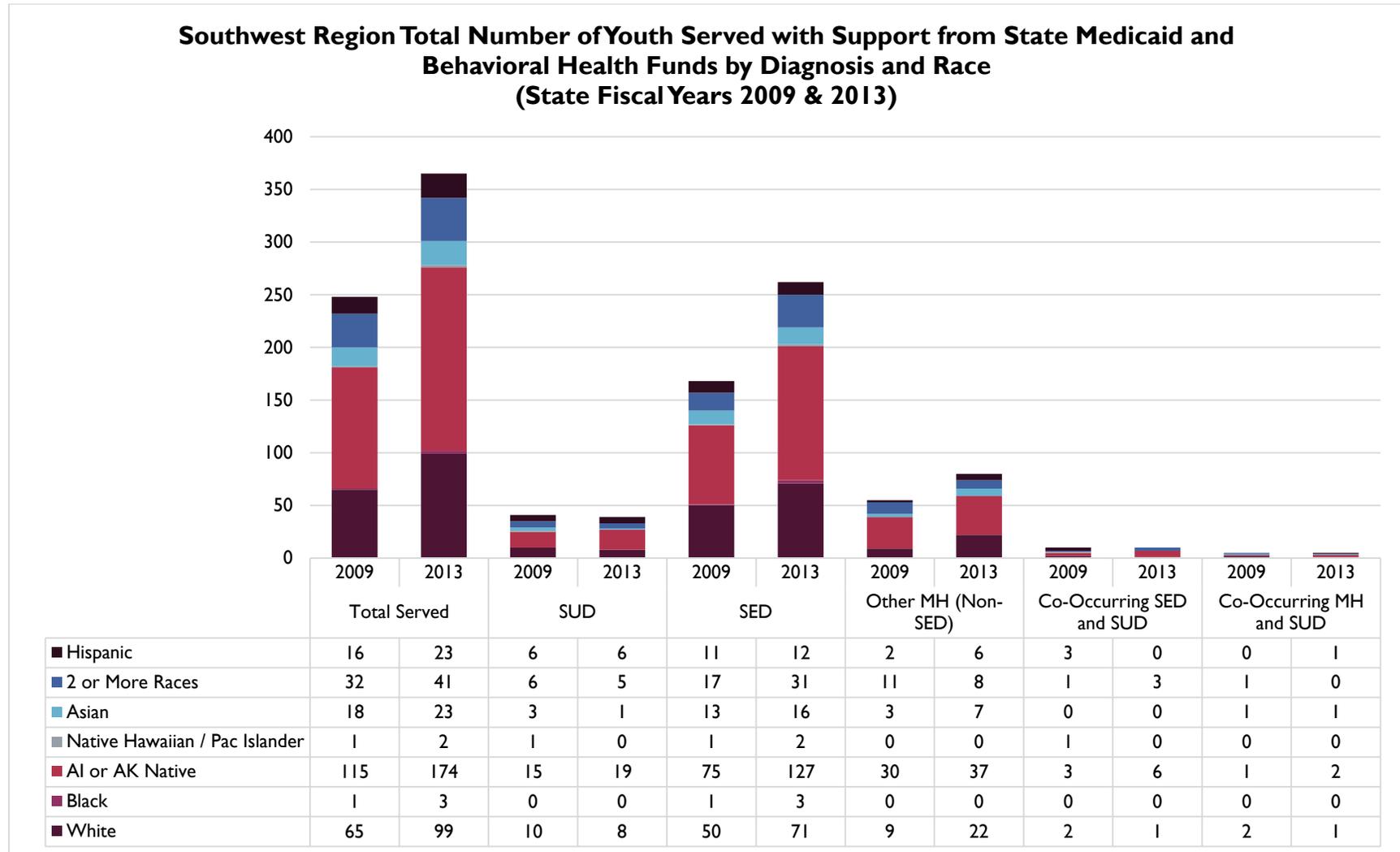
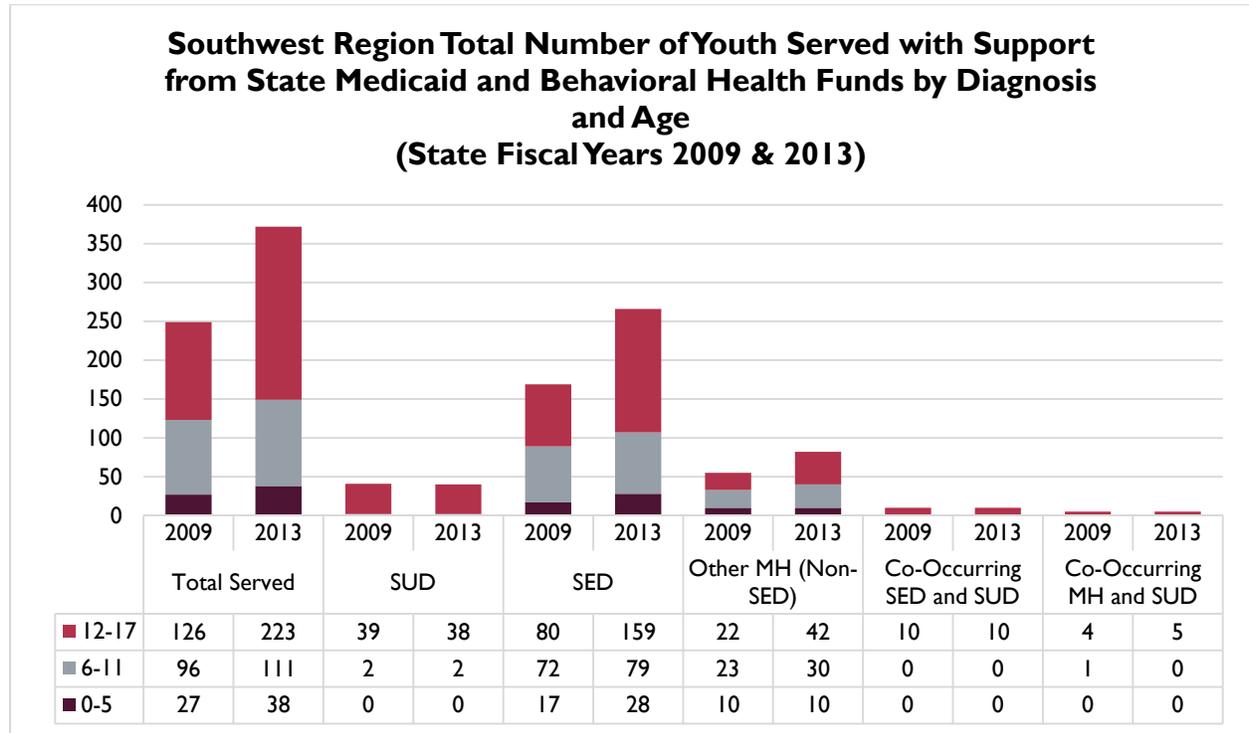


Figure 23 Southwest Region Total Number of Youth Served with Support from State Medicaid and Behavioral Health Funds by Diagnosis and Race (State Fiscal Years 2009 & 2013)



Note: The "2 or More Race" category includes a significant proportion of adults who specify Alaska Native as one of two or more races.

**Figure 24 Southwest Region Total Number of Youth Served with Support from State Medicaid and Behavioral Health Funds by Diagnosis and Age (State Fiscal Years 2009 & 2013)**



## Patterns of Utilization

Figure 25 Number and Rate (per 1,000 Persons) of Alaska Adults Served with Support from State Medicaid and Behavioral Health Funds by Diagnosis and Region 2013

| Number and Rate (per 1,000 Persons) of Alaska Adults Served with Support from State Medicaid and Behavioral Health Funds by Diagnosis and Region (2013) |                  |                           |      |        |      |                    |      |        |      |
|---|------------------|---------------------------|------|--------|------|--------------------|------|--------|------|
| Region  | Adult Population | Utilization: Total Served |      |        |      |                    |      |        |      |
|   |                  | Overall # Served          |      | SUD    |      | Any Mental Illness |      | SMI    |      |
|   |                  | #                         | Rate | #      | Rate | #                  | Rate | #      | Rate |
| Alaska  | 546,215          | 27,728                    | 51   | 14,442 | 26   | 18,902             | 35   | 16,841 | 31   |
| Anchorage, Municipality of  | 224,786          | 11,576                    | 51   | 5,469  | 24   | 8,390              | 37   | 7,416  | 33   |
| Fairbanks North Star Borough  | 74,482           | 3,072                     | 41   | 1,766  | 24   | 1,885              | 25   | 1,729  | 23   |
| Juneau, City and Borough of   | 25,584           | 1,891                     | 74   | 1,308  | 51   | 1,059              | 41   | 998    | 39   |
| Kenai Peninsula Borough   | 43,754           | 2,722                     | 62   | 1,133  | 26   | 1,976              | 45   | 1,776  | 41   |
| Matanuska-Susitna Borough   | 69,032           | 3,844                     | 56   | 1,745  | 25   | 2,816              | 41   | 2,612  | 38   |
| Northwest Region  | 18,890           | 1,264                     | 67   | 881    | 47   | 693                | 37   | 558    | 30   |
| Other Interior Region   | 18,220           | 657                       | 36   | 278    | 15   | 480                | 26   | 401    | 22   |
| Other Southeast Region  | 31,973           | 3,124                     | 98   | 1,766  | 55   | 1,917              | 60   | 1,698  | 53   |
| Southwest Region  | 23,314           | 1,032                     | 44   | 542    | 23   | 674                | 29   | 534    | 23   |
| Y-K Delta Region  | 16,181           | 953                       | 59   | 635    | 39   | 436                | 27   | 369    | 23   |

**Figure 26 Number and Rate (per 1,000 Persons) of Alaska Adult Males and Females Served with Support from State Medicaid and Behavioral Health Funds by Diagnosis and Region 2013**

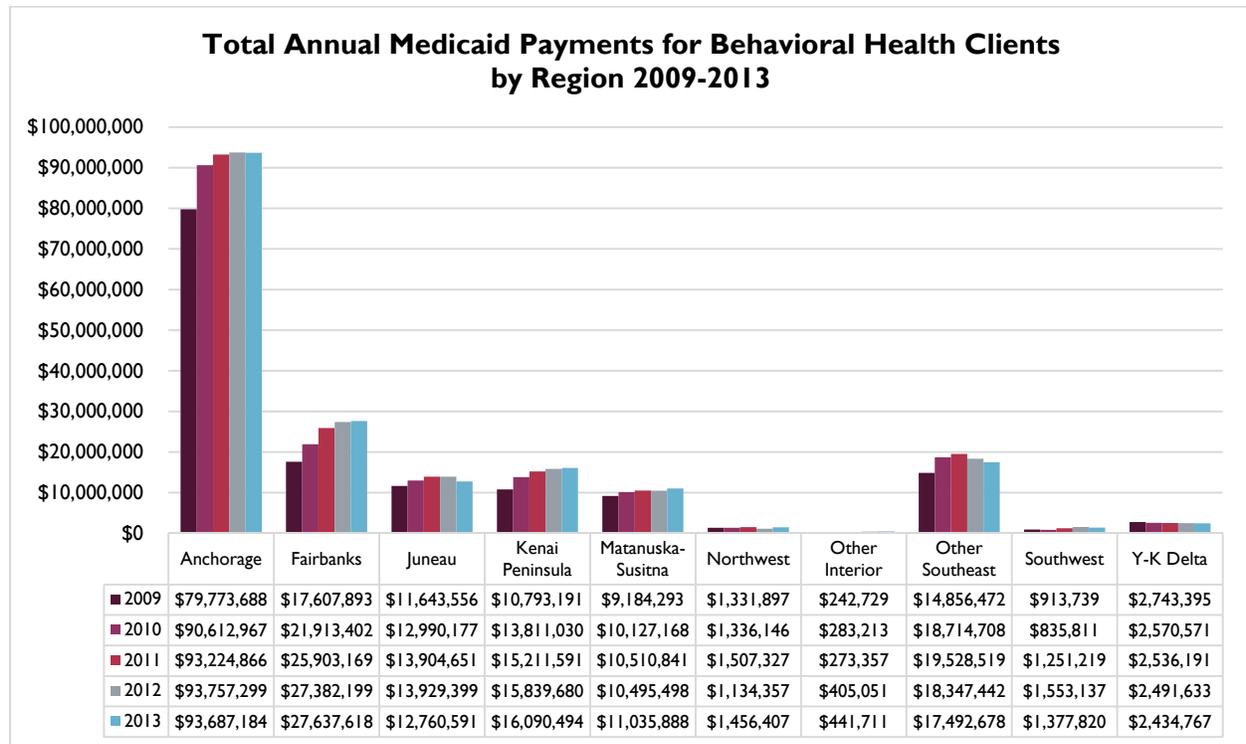
| Number and Rate (per 1,000 Persons) of Alaska Adult Males and Females Served with Support from State Medicaid and Behavioral Health Funds by Diagnosis and Region 2013 |                         |                                       |      |       |      |                                |      |                 |      |                           |   |      |       |      |                                |      |                 |      |
|--|-------------------------|---------------------------------------|------|-------|------|--------------------------------|------|-----------------|------|---------------------------|---|------|-------|------|--------------------------------|------|-----------------|------|
| Region   | 2013 Male Pop. Ages 18+ | Utilization: Total Adult Males Served |      |       |      |                                |      |                 |      | 2013 Female Pop. Ages 18+ | Utilization: Total Adult Females Served |      |       |      |                                |      |                 |      |
|  |                         | Total                                 |      | SUD   |      | Any Mental Illness (Past Year) |      | SMI (Past Year) |      |                           | Total                                   |      | SUD   |      | Any Mental Illness (Past Year) |      | SMI (Past Year) |      |
|  |                         | #                                     | Rate | #     | Rate | #                              | Rate | #               | Rate |                           | #                                       | Rate | #     | Rate | #                              | Rate | #               | Rate |
| Alaska   | 282,804                 | 11,480                                | 41   | 7,144 | 25   | 6,626                          | 23   | 5,766           | 20   | 263,411                   | 16,232                                  | 62   | 7,291 | 28   | 12,262                         | 47   | 11,061          | 42   |
| Anchorage, Municipality of   | 112,826                 | 4,713                                 | 42   | 2,681 | 24   | 3,082                          | 27   | 2,688           | 24   | 111,960                   | 6,849                                   | 61   | 2,781 | 25   | 5,296                          | 47   | 4,716           | 42   |
| Fairbanks North Star Borough   | 39,310                  | 1,252                                 | 32   | 809   | 21   | 683                            | 17   | 614             | 16   | 35,172                    | 1,819                                   | 52   | 957   | 27   | 1,201                          | 34   | 1,114           | 32   |
| Juneau, City and Borough of  | 12,955                  | 954                                   | 74   | 745   | 58   | 400                            | 31   | 374             | 29   | 12,629                    | 937                                     | 74   | 563   | 45   | 659                            | 52   | 624             | 49   |
| Kenai Peninsula Borough  | 22,885                  | 1,056                                 | 46   | 561   | 25   | 631                            | 28   | 556             | 24   | 20,869                    | 1,666                                   | 80   | 572   | 27   | 1,345                          | 64   | 1,220           | 58   |
| Matanuska-Susitna Borough  | 35,436                  | 1,355                                 | 38   | 719   | 20   | 872                            | 25   | 788             | 22   | 33,596                    | 2,489                                   | 74   | 1,026 | 31   | 1,944                          | 58   | 1,824           | 54   |
| Northwest Region   | 11,057                  | 572                                   | 52   | 438   | 40   | 272                            | 25   | 206             | 19   | 7,833                     | 692                                     | 88   | 443   | 57   | 421                            | 54   | 352             | 45   |
| Other Interior Region  | 9,954                   | 277                                   | 28   | 153   | 15   | 166                            | 17   | 126             | 13   | 8,266                     | 380                                     | 46   | 125   | 15   | 314                            | 38   | 275             | 33   |
| Other Southeast Region   | 16,473                  | 1,255                                 | 76   | 844   | 51   | 593                            | 36   | 505             | 31   | 15,500                    | 1,868                                   | 121  | 922   | 59   | 1,323                          | 85   | 1,192           | 77   |
| Southwest Region   | 13,507                  | 490                                   | 36   | 317   | 23   | 251                            | 19   | 190             | 14   | 9,807                     | 542                                     | 55   | 225   | 23   | 423                            | 43   | 344             | 35   |
| Y-K Delta Region   | 8,401                   | 386                                   | 46   | 285   | 34   | 140                            | 17   | 121             | 14   | 7,780                     | 567                                     | 73   | 350   | 45   | 296                            | 38   | 248             | 32   |

**Figure 27 Number and Rate (per 1,000 Persons) of White Adults and American Indian/Alaska Native Adults Served With Support from State Medicaid and Behavioral Health Funds by Diagnosis and Region 2013**

| Number and Rate (per 1,000 Persons) of White Adults and American Indian/Alaska Native Adults Served With Support from State Medicaid and Behavioral Health Funds by Diagnosis and Region 2013 |                          |  |      |       |      |                                |      |                 |      |                          |  |      |       |      |                                |      |                 |      |
|---|--------------------------|--|------|-------|------|--------------------------------|------|-----------------|------|--------------------------|--|------|-------|------|--------------------------------|------|-----------------|------|
| Region  | 2013 White Pop. Ages 18+ | Utilization: Total White Adults Served |      |       |      |                                |      |                 |      | 2013 AI/AN Pop. Ages 18+ | Utilization: Total AI/AN Adults Served |      |       |      |                                |      |                 |      |
|   |                          | Total                                  |      | SUD   |      | Any Mental Illness (Past Year) |      | SMI (Past Year) |      |                          | Total                                  |      | SUD   |      | Any Mental Illness (Past Year) |      | SMI (Past Year) |      |
|   |                          | #                                      | Rate | #     | Rate | #                              | Rate | #               | Rate |                          | #                                      | Rate | #     | Rate | #                              | Rate | #               | Rate |
| Alaska  | 388,379                  | 13,315                                 | 34   | 6,180 | 16   | 9,817                          | 25   | 8,860           | 23   | 91,659                   | 10,644                                 | 116  | 6,773 | 74   | 6,214                          | 68   | 5,458           | 60   |
| Anchorage, Municipality of  | 159,131                  | 4,814                                  | 30   | 2,507 | 16   | 3,596                          | 23   | 3,230           | 20   | 24,195                   | 4,416                                  | 183  | 2,639 | 109  | 1,948                          | 80   | 1,697           | 70   |
| Fairbanks North Star Borough  | 59,859                   | 1,523                                  | 25   | 727   | 12   | 1,113                          | 19   | 1,020           | 17   | 7,084                    | 1,174                                  | 166  | 878   | 124  | 482                            | 68   | 440             | 62   |
| Juneau, City and Borough of   | 18,883                   | 939                                    | 50   | 630   | 33   | 559                            | 30   | 524             | 28   | 4,178                    | 762                                    | 182  | 556   | 133  | 396                            | 95   | 377             | 90   |
| Kenai Peninsula Borough   | 38,022                   | 2,057                                  | 54   | 825   | 22   | 1,510                          | 40   | 1,365           | 36   | 4,411                    | 485                                    | 110  | 240   | 54   | 329                            | 75   | 288             | 65   |
| Matanuska-Susitna Borough   | 60,185                   | 2,932                                  | 49   | 1,306 | 22   | 2,198                          | 37   | 2,045           | 34   | 6,190                    | 514                                    | 83   | 304   | 49   | 297                            | 48   | 275             | 45   |
| Northwest Region  | 5,424                    | 103                                    | 19   | 40    | 7    | 86                             | 16   | 63              | 12   | 12,465                   | 1,137                                  | 91   | 827   | 66   | 588                            | 47   | 479             | 38   |
| Other Interior Region   | 12,386                   | 348                                    | 28   | 128   | 10   | 379                            | 31   | 326             | 26   | 5,031                    | 271                                    | 54   | 131   | 26   | 1,306                          | 259  | 1,146           | 228  |
| Other Southeast Region  | 22,221                   | 1,376                                  | 62   | 723   | 33   | 914                            | 41   | 802             | 36   | 7,631                    | 1,477                                  | 194  | 855   | 112  | 888                            | 116  | 795             | 104  |
| Southwest Region  | 10,305                   | 341                                    | 33   | 143   | 14   | 250                            | 24   | 195             | 19   | 6,606                    | 559                                    | 85   | 342   | 52   | 328                            | 50   | 268             | 41   |
| Y-K Delta Region  | 1,961                    | 13                                     | 7    | 9     | 5    | 5                              | 3    | 5               | 3    | 13,868                   | 933                                    | 67   | 621   | 45   | 429                            | 31   | 362             | 26   |

# Medicaid Payment and Grant Award Trends

Figure 28 Total Annual Medicaid Payments for Behavioral Health Clients by Region 2009-2013



Note: In order to gauge regional provider billing, Medicaid Payments are based on service location not the client's home community in this and subsequent charts.

Figure 29 Per Capita Medicaid Payments for Behavioral Health Clients by Region

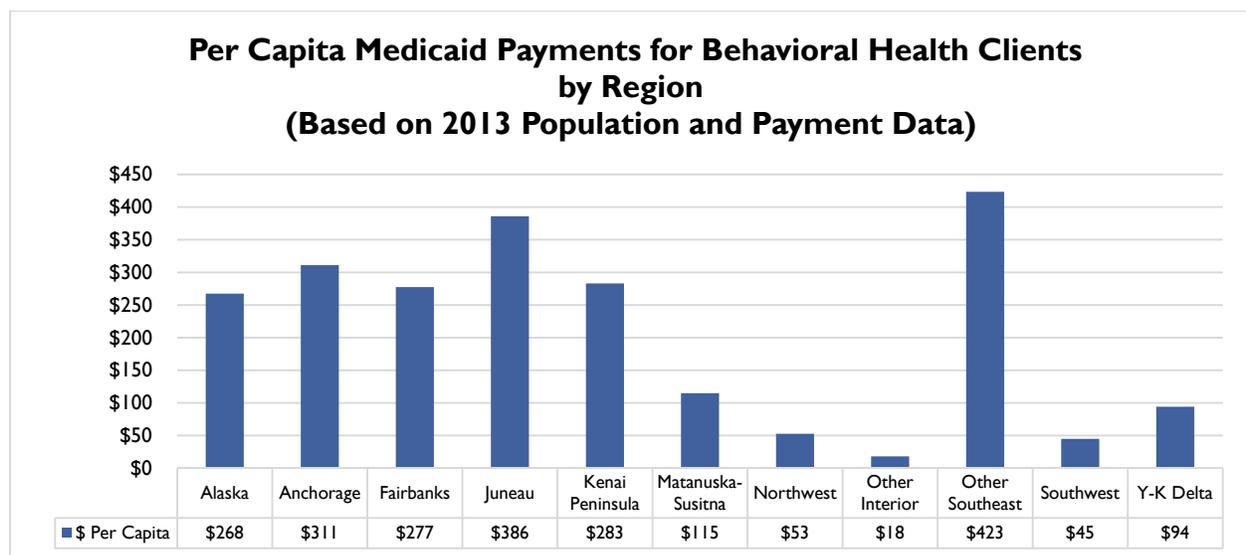


Figure 30 Average Annual Medicaid Payments per Behavioral Health Client by Region 2009-2013

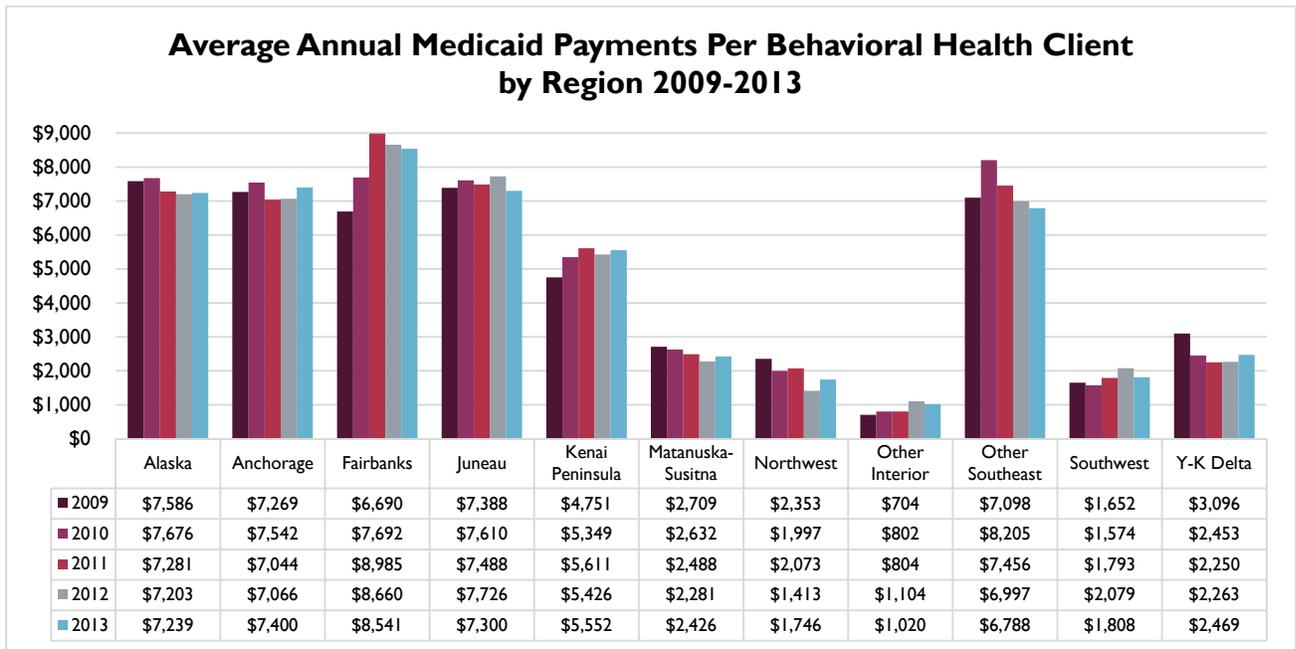


Figure 31 DBH Treatment and Recovery Awards by Region SFY2013

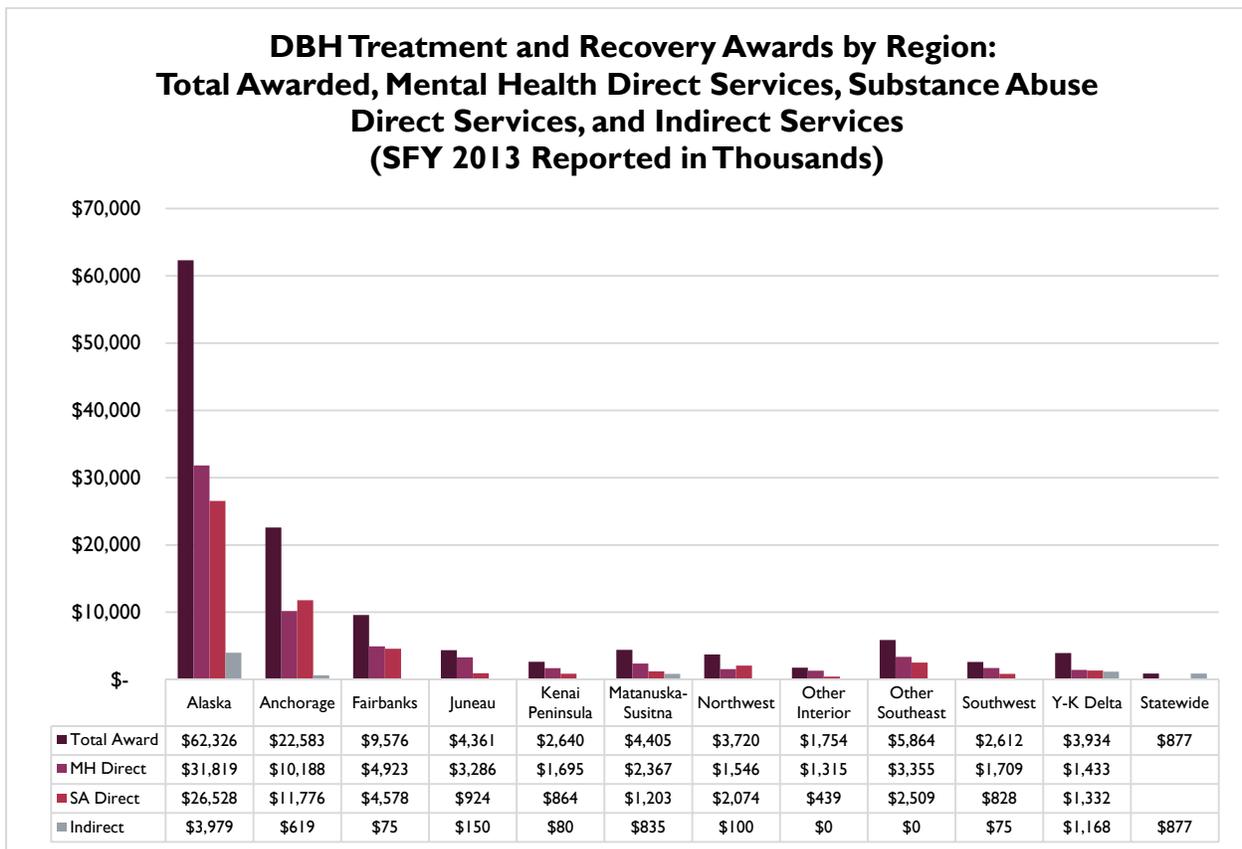


Figure 32 Per Capita Treatment and Recovery Awards Grant by Region SYF2013

