

### **Native Hawaiian Health Fact Sheet 2017**



**VOLUME 4.1** 

**Native Hawaiian Health Status** 

#### **OVERVIEW**

While there is ongoing deliberation as to when the first Native Hawaiians arrived to the shores of the Hawaiian Islands, as well as, the number of Native Hawaiians on the islands at the time of European contact, it is known that the Native Hawaiian people have endured numerous devastating hardships and catastrophic events that have shaped and reshaped Native Hawaiian society and culture. Much has changed over the past two centuries since western culture placed its mark on Hawaiii and its native people.

Today, Native Hawaiians are perhaps the single racial group with the highest health risk in the State of Hawai'i. This risk stems from high economic and cultural stress, lifestyle and risk behaviors, and late or lack of access to health care. Accordingly, it is not surprising to find among Native Hawaiians a high incidence of diseases and ailments, early disability, and premature death.

An overall strategy to improve the well-being of Native Hawaiians should focus on two key elements: 1) a systematic identification of health risk factors early in their lives and 2) timely, appropriate and readily accessible health care. Health statistics perform a vital role in this strategy by 1) identifying high-risk segments of the Native Hawaiian population, 2) ascertaining underlying relationships between risk factors and diseases, 3) identifying barriers precluding access to health care, and 4) assessing the adequacy of available health care services.

#### **HEALTH INDICATORS**

This report seeks to review a few of the health statistics of Hawai'i's native people to identify health status and issues. The report is structured on the "life course model" approach, which provides a deep and layered understanding of how health develops over a lifetime and across generations by combining a focus on health parity and social determinants with an understanding of how they interact. The five sections include:

- 1) Infants (hānau)
- 2) Children (keiki)
- 3) Adolescents ('ōpio)
- 4) Adults (mākua)
- 5) Elders (kūpuna)

Through this approach, one can acquire an understanding of how health issues progress from one generation to the next, health issues within each peer group, and address these issues before they progress to the next cohort.

#### **METHODOLOGY**

The data utilized in this report were compiled from sources published by various state and federal agencies. When working with statistical data, it is important to distinguish between "population" data sets and "sample" data sets. A list of data sources and terms, with brief descriptions included at the end of the report.

#### **Population-Based Data**

Some of the data reported are "population based," meaning the entire population of a specified group (or the entire listing of possible values). For example: How many Native Hawaiian infants were born in the State of Hawaiii in 2016? The "population" in this example is all infants born in the State of Hawaii in 2016, of which Native Hawaiian infants are a proportion. This type of population-based data is possible because all births in Hawaii are recorded on birth certificates maintained and reported by the State Department of Health. Some agencies are mandated to document all occurrences of specified events, hence, population-based data exist. The data can be limited by completeness and accuracy, but provisions are utilized to minimize their impact.

However, not all events or issues can be fully documented due to a pressing need, fiscal restraints, population size, time requirements, and resource limitations. In these cases, where population-based efforts cannot be managed, sampling is often conducted.

#### Sample-Based Data

A sample data set contains a part, or a subset, of a population. The size of a sample is always less than the size of the population from which it is taken. The sample can be used as an estimate of the population, assuming responsible sampling protocols are followed.

To generalize or extrapolate the findings of the sample to the entire population, the sample must be a random sample and be sufficiently large. By its very nature, drawing 100 random samples from the same population, no two samples will be identical; consequently any conclusions drawn should not be identical, though they should be similar. This uncertainty between a sample and a population can be measured by a means called confidence intervals.

#### **Confidence Intervals**

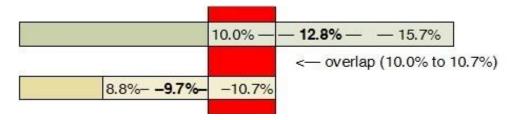
Confidence intervals (CI) are derived from sample statistics. Confidence intervals provide a range of values within which one can have confidence that a value of an unknown population parameter one is seeking is located. Confidence intervals are calculated to provide users different levels of confidence that one can have in their sample. There are many confidence levels for intervals. A common confidence level is the "95% confidence interval." For example: What percent of Native Hawaiian adults were obese in 2016? A calculation of a 95% confidence interval could be 38.0-46.8. The confidence interval indicates that you can be 95% confident that the percent for the entire adult Native Hawaiian population falls within the range of 38.0% to 46.8%.

Keep in mind that 95% confidence indicates that about one time in 20 you are likely to get it wrong. You would not know whether this time is the one time in 20. If this is not acceptable, you can increase the confidence level, to have a greater chance of catching the true population value within it. However, greater confidence comes at a cost. Confidence intervals depend on sample size and often an increased sample size means more time, effort, and resources.

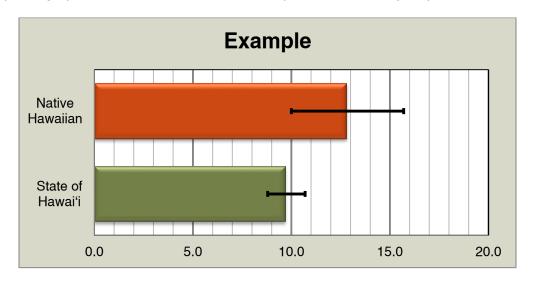
#### **Statistical Significance**

Determining if there is a difference between two measures or if there has been a change in a measure over time can be problematic at times when utilizing survey data. When confidence intervals do not overlap there is a statistically significant difference between the two measures. When confidence intervals overlap, there may be a statistically significant difference, but tests like the t-test or p-values are needed. For example: Is there a difference between Native Hawaiian and State of Hawaii adults with diabetes? In 2014, 12.8% of Native

Hawaiian adults reported having diabetes, while 9.7% of adults in the State reported having diabetes. It appears that there is a difference, 12.8% compared to 9.7%. But, these numbers are based on survey data. The CI for Native Hawaiian adults is 10.0-15.7, while the state is 8.8-10.7. The two ranges overlap, indicating that there is a possibility that the values are in the overlapping area, hence that there is no difference.



In published reports, graphs with confidence intervals are presented in many ways; below is one example.



Confidence intervals could be shown as bars with little or no labeling to assist interpreting the results.

Another example involving a trend: Was there an increase in the percent of Native Hawaiian adults who reported having diabetes in 2011 and 2014? In 2011, 9.8% of Native Hawaiian adults reported having diabetes. In 2014, 12.8% reported having diabetes. It appears that there was an increase from 9.8% to 12.8%. Again looking at the CI, in 2011 it was 7.4-12.1, in 2014 it was 10.0-15.7. Because the two ranges overlap, one cannot state for certain that there was a statistical difference. Additional statistical tests are available to further analyze the measures.

Increasing the sample size will alter the confidence intervals. There is a greater chance of identifying the true population value within it. Perhaps there will be a reportable difference at a higher confidence level.

Depending on the reporting standards being used and the degree of accuracy desired, there are those who will overlook the confidence intervals and report changes based on the reported measures. In such cases caution must be taken when considering findings and conclusions.

#### **Icons**

The final two columns in the data tables summarize the data related to the health measure. The "Native Hawaiians and State" compares the Native Hawaiian measure relative to the measure for the State of Hawaii. It indicates if the Native Hawaiian measure is higher, lower, or at parity relative to the State. It is not a gauge noting that Native Hawaiians are better or worse than the State. Not all lower measures are negative and not all higher measures are positive, it depends on the issue being measured. Moreover, since much of the data presented is based on survey data, there is a statistical margin of error (MOE) associated with each measure. Though a measure may appear higher or lower, due to the MOE the measures may be statistically equal. Measures can be different yet statistically similar or different and statistically different. In the latter case, the measures are noted to have a difference that is "statistically significant."

| Higher   | The measure for Native Hawaiians is higher than the measure for the State of Hawaiii                              |   |
|--|---|---|
| Parity   | The measure for Native Hawaiians is equal or similar to the measure for the State of Hawai'i                      |   |
| Lower  | The measure for Native Hawaiians is lower than the measure for the State of Hawaiii                               | • |
| Unknown/ Not<br>Applicable/<br>Insufficient Data | There may be no measure specific for Native Hawaiians   | • |
| Statistical<br>Significance                      | There is a statistically significant difference between the measure for Native Hawaiians and the State of Hawai'i | * |

The final column assesses the Native Hawaiian data over time to determine if there is a trend and if the trend is increasing, decreasing, stable, or variable. As with the "Native Hawaiians and State" column, trends may appear to be increasing or decreasing, but due to the MOE, trends may not be what they seem to be. Generally, health-related matters change very slowly, and statistically significant changes may not appear for a long period.

| Increasing trend  | The trend for Native Hawaiians is increasing  | <b>→</b>      |
|---|---|---------------|
| Stable trend The trend for Native Hawaiians is stable, minimal change |   | $\Rightarrow$ |
| Variable trend  | The trend for Native Hawaiians is variable, changing over time  | <b>\$</b>     |
| Decreasing trend  | The trend for Native Hawaiians is decreasing  | <b>^</b>      |
| Unknown/ Not<br>Applicable/<br>Insufficient Data                      | There may be no trend specific for<br>Native Hawaiians or there may be<br>insufficient data to identify a trend | •             |



| Data<br>Year  | Health Measure   | Native<br>Hawaiian      | State of<br>Hawaiʻi     | Native<br>Hawaiians<br>and<br>State | Recent<br>Native<br>Hawaiian<br>Trend |
|---------------|--|-------------------------|-------------------------|-------------------------------------|---------------------------------------|
|               | Maternal Characteristics   |                         |                         |                                     |                                       |
| 2013<br>VS    | <b>15.5 percent</b> of Native Hawaiian women received initial prenatal care later than the first trimester or not at all | 15.5%                   | 14.1%                   |                                     |                                       |
| 2013<br>VS    | <b>84.5 percent</b> of Native Hawaiian women received initial prenatal care during their first trimester                 | 84.5%                   | 85.9%                   |                                     | <u>~</u>                              |
| 2011<br>PRAMS | 83.7 percent of Native Hawaiian women received prenatal care as early as they wanted                                     | 83.7%<br>(CI 78.8-87.6) | 84.7%<br>(CI 82.2-86.9) |                                     | <u>~</u>                              |
| 2013<br>PRAMS | 70.1 percent of Native Hawaiian women received early and adequate prenatal care  | 70.1%<br>(CI 64.3-75.3) | 70.8%<br>(CI 67.6-73.9) | _                                   | <b>\$</b>                             |
| 2015<br>VS    | 2.2 percent of Native Hawaiian mothers were under 18 years of age  | 2.2%                    | 1.0%                    |                                     |                                       |
| 2013<br>PRAMS | 28.2 percent of Native Hawaiian women were obese (BMI>=30) during pregnancy  | 28.2%<br>(CI 23.1-33.9) | 18.3%<br>(CI 15.8-21.2) |                                     | <u>^</u>                              |
| 2013<br>PRAMS | <b>51.7 percent</b> of Native Hawaiian women gained recommended amount of weight during pregnancy                        | 51.7%<br>(CI 39.3-63.9) | 40.3%<br>(CI 33.5-47.4) |                                     | <b>•</b>                              |
| 2013<br>PRAMS | 3.3 percent of Native Hawaiian women reported having diabetes  | 3.3%<br>(CI 1.8-5.9)    | 2.8%<br>(CI 1.9-4.0)    |                                     | <b>\$</b>                             |
| 2013<br>PRAMS | 11.5 percent of Native Hawaiian women had gestational diabetes   | 11.5%<br>(Cl 8.1-16.2)  | 11.4%<br>(CI 9.3-13.8)  |                                     | <b>✓</b>                              |

| 2013<br>PRAMS | 3.9 percent of Native Hawaiian women had high blood pressure before pregnancy   | 3.9%<br>(CI 2.4-6.5)    | 4.1%<br>(CI 3.0-5.6)    | <b>•</b>  |
|---------------|---|-------------------------|-------------------------|-----------|
| 2013<br>PRAMS | <b>53.4 percent</b> of Native Hawaiian women experienced 2 or more stressors during pregnancy   | 53.4%<br>(CI 47.3-59.3) | 44.1%<br>(CI 40.7-47.6) | <b>~</b>  |
| 2013<br>PRAMS | <b>6.4 percent</b> of Native Hawaiian women experienced physical abuse by husband or partner during the 12 months before pregnancy          | 6.4%<br>(CI 3.9-10.3)   | 3.0%<br>(CI 2.1-4.4)    | <u>^</u>  |
| 2013<br>PRAMS | <b>6.1 percent</b> of Native Hawaiian women experienced physical abuse by husband or partner during pregnancy                               | 6.1%<br>(CI 3.6-10.2)   | 3.2%<br>(Cl 2.1-4.7)    | <u>^</u>  |
| 2013<br>PRAMS | 25.0 percent of Native Hawaiian women reported that they smoked three months before pregnancy   | 25.0%<br>(CI 20.2-30.5) | 18.2%<br>(CI 15.6-21.0) | <b>^</b>  |
| 2013<br>PRAMS | <b>9.4 percent</b> of Native Hawaiian women reported that they smoked during the last three months of pregnancy                             | 9.4%<br>(CI 6.6-13.3)   | 5.6%<br>(CI 4.2-7.2)    | <b>^</b>  |
| 2013<br>PRAMS | <b>12.5 percent</b> of Native Hawaiian women reported that they smoked in the postpartum period (3-6 months after birth)                    | 12.5%<br>(CI 9.1-17.0)  | 9.2%<br>(Cl 7.4-11.4)   | <b>\</b>  |
| 2013<br>PRAMS | <b>52.7 percent</b> of Native Hawaiian women reported drinking alcohol in the 3 months before pregnancy                                     | 52.7%<br>(CI 46.6-58.7) | 53.1%<br>(CI 49.6-56.6) |           |
| 2013<br>PRAMS | <b>23.7 percent</b> of Native Hawaiian women reported binge drinking 3 months before pregnancy (having four or more drinks on one occasion) | 23.7%<br>(CI 19.0-29.2) | 18.9%<br>(CI 16.3-21.8) | <b>*</b>  |
| 2013<br>PRAMS | <b>7.3 percent</b> of Native Hawaiian women drank alcohol during the last three months of pregnancy   | 7.3%<br>(Cl 4.8-11.1)   | 7.6%<br>(CI 6.0-9.6)    | <b>‡</b>  |
| 2013<br>PRAMS | 10.7 percent of Native Hawaiian women reported illicit drug use 1 month before pregnancy  | 10.7%<br>(CI 7.5-15.0)  | 7.4%<br>(CI 5.8-9.4)    | <b>\</b>  |
| 2011<br>PRAMS | 5.2 percent of Native Hawaiian women reported illicit drug use during pregnancy   | 5.2%<br>(CI 3.3-8.1)    | 3.4%<br>(CI 2.5-4.6)    |           |
| 2011<br>PRAMS | 15.8 percent of Native Hawaiian women had unwanted pregnancies  | 15.8%<br>(Cl 11.9-20.7) | 11.7%<br>(CI 9.7-14.0)  | <b>\$</b> |
| 2013<br>PRAMS | 11.2 percent of Native Hawaiian women reported postpartum depression  | 11.2%<br>(Cl 8.1-15.2)  | 9.5%<br>(Cl 7.7-11.6)   | •         |
| 2008<br>PRAMS | 11.2 percent of Native Hawaiian women reported maternal morbidities requiring more than one night in the hospital                           | 11.2%<br>(CI 8.5-14.6)  | 9.3%<br>(CI 8.0-10.8)   | <b>∠</b>  |

|               | Birth Outcomes  |                                 |                                 |   |          |
|---------------|---|---------------------------------|---------------------------------|---|----------|
| 2012<br>VS    | Native Hawaiian live births to pregnancy ratio (1 live birth per 1.09 pregnancies)  | 1:1.09<br>(birth:<br>pregnancy) | 1:1.18<br>(birth:<br>pregnancy) | • | <b></b>  |
| 2015<br>VS    | 35.7 percent of all infants born in the State of Hawai'i were Native Hawaiian   | 35.7%<br>(Native<br>Hawaiian)   | 64.3%<br>(Non-Hawaiian)         | • | <b>^</b> |
| 2013<br>PRAMS | <b>9.4 percent</b> of Native Hawaiian infants were placed in the intensive care unit (ICU) after birth  | 9.4%<br>(CI 6.5-13.3)           | 8.5%<br>(CI 6.9-10.4)           |   | <b>~</b> |
| 2015<br>VS    | <b>91.2 percent</b> of Native Hawaiian mothers with infants born with a normal birth weight (5 pounds, 9 ounces to 9 pounds, 4 ounces)  | 91.2%                           | 91.7%                           |   | <b>~</b> |
| 2015<br>VS    | <b>8.8 percent</b> of Native Hawaiian mothers with infants born with a low birth weight (less than 5 pounds, 9 ounces)  | 8.8%                            | 8.4%                            |   | <b>\</b> |
| 2015<br>VS    | <b>1.8 percent</b> of Native Hawaiian mothers with infants born with a very low birth weight (less than 3 pounds, 5 ounces)   | 1.8%                            | 1.4%                            |   | <b>\</b> |
| 2015<br>VS    | <b>2.7 percent</b> of Native Hawaiian mothers with infants born very early preterm (under 32 weeks gestation)   | 2.7%                            | 2.4%                            |   | <b>▼</b> |
| 2015<br>VS    | <b>1.1 percent</b> of Native Hawaiian mothers with infants born early preterm (32-33 weeks gestation)   | 1.1%                            | 1.3%                            |   | <b>\</b> |
| 2015<br>VS    | <b>6.2 percent</b> of Native Hawaiian mothers with infants born late preterm (34-36 weeks gestation)  | 6.2%                            | 6.0%                            |   | <b>▼</b> |
| 2015<br>VS    | <b>11.4 percent</b> of Native Hawaiian mothers with infants born preterm (before 37 weeks gestation)  | 11.4%                           | 10.1%                           |   | <b>▼</b> |
|               | Infant Beginnings   |                                 |                                 |   |          |
| 2011<br>PRAMS | 96.6 percent of Native Hawaiian babies received 1-week postnatal check ups  | 96.6%<br>(CI 93.0-98.3)         | 94.6%<br>(CI 92.5-96.2)         |   | <b>₹</b> |
| 2014<br>NIS   | <b>69.1 percent</b> of 19 to 35 month infants in Hawai'i received a full schedule of age appropriate immunizations against Diphtheria, Tetanus, Pertussis, Poliovirus, Measles, Mumps, Rubella, Haemophilus influenza type b, Hepatitis B, and Varicella (chicken pox) (4:3:1:3:3:1 series) | No Data                         | 69.1%<br>(CI 63.0-75.2)         | • | •        |
| 2013<br>PRAMS | 71.2 percent of Native Hawaiian infants were breastfed for 9 or more weeks  | 71.2%<br>(CI 65.3-76.5)         | 79.9%<br>(CI 76.9-82.5)         |   |          |

| 2013<br>PRAMS | 71.8 percent of Native Hawaiian infants sleeping on their backs  | 71.8%<br>(CI 65.8-77.0) | 79.2%<br>(CI 76.2-82.0) |   | <b>₹</b> |
|---------------|--|-------------------------|-------------------------|---|----------|
|               | Infant Mortality   |                         |                         |   |          |
| 2015<br>VS    | Resident Native Hawaiian infant mortality rate (aged <365 days) ( <b>7.0 infant deaths per 1,000 live births</b> )         | 7.0                     | 5.7                     |   | <b>▼</b> |
| 2015<br>VS    | Resident Native Hawaiian neonatal mortality rate (less than 28 days) (4.0 infant deaths per 1,000 live births)             | 4.0                     | 3.6                     |   | <b>\</b> |
| 2015<br>VS    | Resident Native Hawaiian postneonatal mortality rate (aged 28 to 364 days) (3.1 postneonatal deaths per 1,000 live births) | 3.1                     | 2.1                     |   | <b>▼</b> |
| 2012<br>VS    | Native Hawaiian fetal mortality rate (17.0 fetal deaths per 1,000 live births)   | 17.0                    | 31.6                    |   |          |
| 2012<br>VS    | Native Hawaiian abortion rate (78.8 abortions per 1,000 live births)   | 78.8                    | 147.1                   |   |          |
|               | Social Determinants of Health  |                         |                         |   |          |
| 2015<br>VS    | 37.5 percent of resident mothers in Hawai'i were not married at the time they delivered                                    | No Data                 | 37.5%                   | • |          |
| 2015<br>VS    | 26.2 percent of resident Native Hawaiian mothers had less than a high school education                                     | 26.2%                   | 17.5%                   |   | <b>^</b> |
| 2012<br>PRAMS | <b>57.4 percent</b> of Native Hawaiian women received medical insurance through Medicaid/QUEST for their delivery          | 57.4%<br>(CI 51.5-63.0) | 36.8%<br>(CI 33.8-39.9) | * |          |
| 2013<br>PRAMS | 61.4 percent of Native Hawaiian women received medical insurance through Medicaid/QUEST for their prenatal care            | 61.4%<br>(CI 55.4-67.2) | 36.2%<br>(CI 33.1-39.6) | * | <b>✓</b> |
| 2013<br>PRAMS | 66.2 percent of Native Hawaiian women participated in WIC during pregnancy   | 66.2%<br>(CI 60.4-71.7) | 43.7%<br>(CI 40.3-47.1) | * | <b>₹</b> |



| Data<br>Year  | Health Measure  | Native<br>Hawaiian      | State of<br>Hawaiʻi     | Native<br>Hawaiians<br>and<br>State | Recent<br>Native<br>Hawaiian<br>Trend |
|---------------|---|-------------------------|-------------------------|-------------------------------------|---------------------------------------|
|               | Reported Keiki Health Conditions  |                         |                         |                                     |                                       |
| 2005<br>YRBS  | <b>18.0 percent</b> of Native Hawaiian public middle school children reported being overweight (>=85 percentile and <95 percentile BMI for age and sex)         | 18.0%<br>(CI 12.9-23.1) | 13.7%<br>(CI 10.9-16.5) |                                     | •                                     |
| 2005<br>YRBS  | <b>13.2 percent</b> of Native Hawaiian public middle school children reported being obese (>=95 BMI for age and sex)  | 13.2%<br>(CI 6.2-20.3)  | 12.4%<br>(CI 9.5-15.4)  |                                     | •                                     |
| 2005<br>YRBS  | <b>31.2 percent</b> of Native Hawaiian public middle school children reported being overweight or obese (>85 percentile BMI for age and sex)                    | 31.2%<br>(CI 21.6-40.8) | 26.2%<br>(Cl 21.1-31.2) |                                     | •                                     |
| 2009<br>YRBS  | 34.8 percent of Native Hawaiian public middle school students have ever had asthma  | 34.8%<br>(CI 26.3-43.3) | 26.3%<br>(CI 22.9-29.7) |                                     | •                                     |
| 2009<br>YRBS  | 21.1 percent of Native Hawaiian public middle school children currently have asthma   | 21.1%<br>(CI 14.3-27.9) | 14.7%<br>(CI 12.0-17.5) |                                     | •                                     |
| 2012<br>HHS   | 20.0 percent of Native Hawaiian children 0 to 14 years of age reported having asthma  | 35.8%                   | 22.0%                   |                                     | <b>\_</b>                             |
| 2014<br>BRFSS | 29.7 percent of Native Hawaiian adults told that their child had asthma   | 29.7%<br>(CI 21.4-38.1) | 25.3%<br>(CI 20.9-29.6) |                                     | <b>‡</b>                              |
|               | Modifiable Keiki Risk Behaviors   |                         |                         |                                     |                                       |
| 2015<br>YRBS  | <b>30.6 percent</b> of Native Hawaiian public middle school children were physically active for a total of 60 minutes or more per day on all of the past 7 days | 30.6%<br>(CI 26.7-34.5) | 27.4%<br>(Cl 25.3-29.4) |                                     | <b>\$</b>                             |

| 2015<br>YRBS | <b>15.7 percent</b> of Native Hawaiian public middle school students do not have breakfast any day of the week   | 15.7%<br>(CI 13.4-17.9) | 12.6%<br>(CI 11.2-14.0) |   | •         |
|--------------|--|-------------------------|-------------------------|---|-----------|
| 2015<br>YTS  | <b>7.2 percent</b> of Native Hawaiian public middle school students have used any form of tobacco in the past 30 days  | 7.2%<br>(CI 5.0-9.4)    | 6.1%<br>(CI 4.9-7.3)    |   | <b>†</b>  |
| 2015<br>YTS  | 11.5 percent of Native Hawaiian public middle school students first tried cigarette smoking before age 13  | 11.5%<br>(Cl 8.8-14.1)  | 9.2%<br>(CI 6.8-11.5)   |   | <b>•</b>  |
| 2015<br>YRBS | 7.4 percent of Native Hawaiian public middle school students engaged in binge drinking within the past 30 days   | 7.4%<br>(CI 6.0-8.9)    | 5.3%<br>(CI 4.3-6.4)    |   | •         |
| 2015<br>YRBS | 34.8 percent of Native Hawaiian public middle school students have ever drank alcohol  | 34.8%<br>(Cl 31.2-38.3) | 24.0%<br>(CI 21.5-26.5) | * | <b>^</b>  |
| 2015<br>YRBS | <b>26.8 percent</b> of Native Hawaiian public middle school students had their first drink before age 13   | 26.8%<br>(CI 23.7-29.9) | 18.7%<br>(CI 16.2-21.2) | * | <b>~</b>  |
| 2015<br>YRBS | 14.3 percent of Native Hawaiian public middle school students have consumed alcohol within the past 30 days  | 14.3%<br>(CI 12.1-16.5) | 10.4%<br>(CI 9.3-11.6)  | * | <b>~</b>  |
| 2015<br>YRBS | 2.9 percent of Native Hawaiian public middle school students have ever used some form of cocaine, including powder, crack, or freebase   | 2.9%<br>(CI 2.3-3.5)    | 3.2%<br>(CI 2.3-4.1)    |   | <u>^</u>  |
| 2015<br>YRBS | 2.1 percent of Native Hawaiian public middle school students have ever used ecstasy (also called MDMA)   | 2.1%<br>(CI 1.4-2.9)    | 1.7%<br>(CI 1.3-2.2)    |   | <b>\_</b> |
| 2015<br>YRBS | <b>6.4 percent</b> of Native Hawaiian public middle school students have ever sniffed glue, breathed the contents of aerosol spray cans, or inhaled some paints or sprays to get high  | 6.4%<br>(CI 4.5-8.4)    | 6.5%<br>(CI 5.1-7.8)    |   |           |
| 2015<br>YRBS | 2.7 percent of Native Hawaiian public middle school students have used methamphetamines (also called speed, crystal, crank, or ice) one or more times during their life  | 2.7%<br>(CI 1.6-3.8)    | 2.7%<br>(Cl 1.8-3.5)    |   | <u>^</u>  |
| 2015<br>YRBS | <b>6.8 percent</b> of Native Hawaiian public middle school students have taken a prescription drug such as OxyContin, Vicodin, tranquilizers, Valium, Xanax, or Ritalin without a doctor's prescription one or more times during their life                | 6.8%<br>(CI 5.0-8.6)    | 4.6%<br>(CI 3.4-5.9)    |   | <b>\$</b> |
| 2015<br>YRBS | <b>80.7 percent</b> of Native Hawaiian public middle school students have never used any illicit drugs (marijuana, crack, other forms of cocaine, heroin, or use of other opiates, stimulants, barbiturates, or tranquilizers not under a doctor's orders) | 80.7%<br>(CI 77.9-83.4) | 84.7%<br>(CI 82.3-87.0) | _ | <b>→</b>  |
| 2015<br>YRBS | 20.6 percent of Native Hawaiian public middle school students have consumed alcohol or marijuana within the past 30 days   | 20.6%<br>(CI 17.7-23.5) | 14.8%<br>(CI 13.2-16.4) | * | <b>\$</b> |

| 2015<br>YRBS | <b>14.2 percent</b> of Native Hawaiian public middle school students ever tried to kill themselves   | 14.2%<br>(CI 11.5-16.9)       | 12.5%<br>(CI 11.1-14.0)     |   | <b>₹</b>      |
|--------------|--|-------------------------------|-----------------------------|---|---------------|
| 2015<br>YRBS | <b>18.2 percent</b> of Native Hawaiian public middle school students ever made a plan about how they would kill themselves                             | 18.2%<br>(CI 15.4-20.9)       | 17.5%<br>(Cl 15.7-19.2)     |   |               |
| 2015<br>YRBS | <b>27.1 percent</b> of Native Hawaiian public middle school students ever seriously thought about killing themselves                                   | 27.1%<br>(CI 24.2-30.1)       | 24.8%<br>(CI 22.0-27.5)     |   | <b>\$</b>     |
|              | Keiki Mortality  |                               |                             |   |               |
| 2015<br>VS   | 41.5 percent of deaths of resident children 0-4 years of age were Native Hawaiian  | 49 deaths                     | 118 deaths                  | • | <b>^</b>      |
|              | Social Determinants of Health  |                               |                             |   |               |
| 2015<br>ACS  | <b>15.3 percent</b> of Native Hawaiian families with related children under 5 years live in poverty  | 15.3%<br>(MOE ± 7.5)          | 6.6%<br>(MOE ± 2.0)         |   | <b>^</b>      |
| 2015<br>ACS  | <b>23.2 percent</b> of Native Hawaiian families with female householder, no husband present with related children under 5 years live in poverty        | 23.2%<br>(MOE ± 6.2)          | 16.9%<br>(MOE ± 2.4)        |   | <b>\$</b>     |
| 2015<br>DHS  | 48.3 percent of those in foster care were Native Hawaiian  | 48.3%<br>(Native<br>Hawaiian) | 51.7%<br>(Non-<br>Hawaiian) | • | <b>₹</b>      |
| 2015<br>CAN  | 45.9 percent of victims of child abuse and neglect were Native Hawaiian  | 45.9%<br>(Native<br>Hawaiian) | 54.1%<br>(Non-<br>Hawaiian) | • | <b>₹</b>      |
| 2015<br>YTS  | 18.2 percent of Native Hawaiian public middle school students receive no spending money per week   | 18.2%<br>(CI 14.6-21.7)       | 19.3%<br>(CI 16.9-21.6)     |   | •             |
| 2015<br>ACS  | 8.4 percent of Native Hawaiians are enrolled in nursery school, preschool  | 8.4%<br>(MOE ± 1.6)           | 6.8%<br>(MOE ± 0.7)         |   | $\Rightarrow$ |
| 2015<br>ACS  | 6.0 percent of Native Hawaiians are enrolled in kindergarten   | 6.0%<br>(MOE ± 1.6)           | 4.4%<br>(MOE ± 0.6)         |   | <b>^</b>      |
| 2015<br>ACS  | 44.3 percent of Native Hawaiians are enrolled in elementary school (grades 1-8)  | 44.3%<br>(MOE ± 2.4)          | 39.5%<br>(MOE ± 0.9)        | * | <b>\$</b>     |
| 2013<br>YRBS | <b>62.0 percent</b> of Native Hawaiian public middle school students would describe their grades in school in the past 12 months as mostly A's and B's | 62.0%<br>(CI 58.7-65.4)       | 65.8%<br>(CI 62.0-69.5)     |   | <b>₹</b>      |
| 2009<br>YRBS | <b>54.2 percent</b> of Native Hawaiian public middle school students reported that they will definitely complete high school                           | 54.2%<br>(CI 43.3-65.0        | 59.3%<br>(CI 56.0-62.5)     |   | •             |

2009 YRBS 27.1 percent of Native Hawaiian public middle school students reported that they will definitely complete a post high school program such as a vocational training program, military service, community college or 4-year college







| Data<br>Year | Health Measure   | Native<br>Hawaiian      | State of<br>Hawaiʻi     | Native<br>Hawaiians<br>and<br>State | Recent<br>Native<br>Hawaiian<br>Trend |
|--------------|--|-------------------------|-------------------------|-------------------------------------|---------------------------------------|
|              | Reported 'Ōpio Health Conditions   |                         |                         |                                     |                                       |
| 2015<br>YRBS | <b>33.5 percent</b> of Native Hawaiian public high school students are overweight or obese (>=85 percentile BMI for age and sex)           | 33.5%<br>(CI 28.3-38.6) | 28.3%<br>(CI 25.3-31.3) |                                     | <b>‡</b>                              |
| 2015<br>YRBS | <b>16.3 percent</b> of Native Hawaiian public high school students are obese (>=95 percentile BMI for age and sex)                         | 16.3%<br>(CI 13.3-19.3) | 12.9%<br>(CI 10.8-15.1) |                                     | <b>‡</b>                              |
| 2015<br>YRBS | <b>17.2 percent</b> of Native Hawaiian public high school students are overweight (>=85 percentile and <95 percentile BMI for age and sex) | 17.2%<br>(CI 14.4-20.0) | 15.3%<br>(CI 13.9-16.7) |                                     |                                       |
| 2015<br>YRBS | 15.7 percent of Native Hawaiian public high school students currently have asthma  | 15.7%<br>(CI 13.4-18.0) | 13.1%<br>(CI 12.0-14.3) |                                     |                                       |
| 2015<br>YRBS | 37.7 percent of Native Hawaiian public high school students have ever had asthma   | 37.7%<br>(CI 35.0-40.4) | 31.3%<br>(CI 29.5-33.1) | *                                   | <b>‡</b>                              |
| 2012<br>HHS  | 18.1 percent of Native Hawaiian adolescents 15-17 years of age reported having asthma  | 18.1%                   | 14.1%                   |                                     | <b>^</b>                              |
| 2015<br>ACS  | 3.7 percent of Native Hawaiian civilian noninstitutionalized population under 18 years reported a disability                               | 3.7%<br>(MOE ± 1.1)     | 2.4%<br>(MOE ± 0.4)     |                                     | <b>‡</b>                              |
|              | Modifiable 'Ōpio Risk Behaviors  |                         |                         |                                     |                                       |
| 2014<br>NIS  | <b>88.6 percent</b> of adolescents ages 13-17 received vaccination coverage >= 2 doses of MMR (measles, mumps, and rubella) vaccine        | No Data                 | 88.6%<br>(CI 84.3-92.9) | •                                   | <b>•</b>                              |

| 2015<br>YRBS | 31.2 percent of Native Hawaiian public high school students ever 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                          | 31.2%<br>(Cl 27.9-34.4) | 29.5%<br>(Cl 27.6-31.4) |   | <b>\$</b> |
|--------------|---|-------------------------|-------------------------|---|-----------|
| 2015<br>YRBS | <b>14.1 percent</b> of Native Hawaiian public high school students tried to kill themselves during the past 12 months   | 14.1%<br>(CI 12.2-16.0) | 10.5%<br>(CI 9.2-11.8)  | * | <b>1</b>  |
| 2015<br>YRBS | 19.6 percent of Native Hawaiian public high school students seriously considered attempting suicide during the past 12 months   | 19.6%<br>(CI 16.3-22.9) | 16.0%<br>(CI 14.1-18.0) |   | <b>\$</b> |
| 2015<br>YRBS | <b>16.7 percent</b> of Native Hawaiian public high school students made a plan about how they would kill themselves during the past 12 months   | 16.7%<br>(Cl 14.1-19.2) | 15.6%<br>(CI 14.2-17.0) |   | <b>\$</b> |
| 2015<br>YRBS | <b>5.0 percent</b> of Native Hawaiian public high school students whose suicide attempt resulted in an injury, poisoning, or overdose that had to be treated by a doctor or nurse during the past 12 months                               | 5.0%<br>(Cl 2.9-7.1)    | 3.4%<br>(CI 2.8-4.0)    |   | <b>\$</b> |
| 2015<br>YRBS | 27.7 percent of Native Hawaiian public high school students did something to purposely hurt themselves without wanting to die (such as cutting or burning themselves on purpose one or more times) during the 12 months before the survey | 27.7%<br>(CI 25.2-30.3) | 23.0%<br>(Cl 21.0-25.1) |   | •         |
| 2015<br>YRBS | <b>26.3 percent</b> of Native Hawaiian public high school students were physically active for a total of 60 minutes or more per day on all of the past seven days   | 26.3%<br>(CI 23.7-28.8) | 20.3%<br>(CI 18.7-21.9) | * |           |
| 2015<br>YRBS | <b>19.4 percent</b> of Native Hawaiian public high school students ate fruits and vegetables five or more times per day during the past seven days  | 19.4%<br>(Cl 16.9-21.9) | 18.7%<br>(CI 17.3-20.2) |   | •         |
| 2015<br>YRBS | 27.4 percent of Native Hawaiian high school students have breakfast every day of the week   | 27.4%<br>(Cl 24.6-30.1) | 36.0%<br>(CI 34.0-38.0) |   | •         |
| 2015<br>YRBS | <b>7.3 percent</b> of Native Hawaiian public high school students most of the time or always went hungry because there was not enough food in their home (during the 30 days before the survey)   | 7.3%<br>(CI 5.3-9.3)    | 7.9%<br>(CI 6.7-9.0)    |   | •         |
| 2015<br>YTS  | <b>19.2 percent</b> of Native Hawaiian public high school students have used any form of tobacco in the past 30 days  | 19.2%<br>(CI 13.0-25.5) | 11.0%<br>(CI 9.0-13.0)  |   |           |
| 2015<br>YTS  | <b>14.2 percent</b> of Native Hawaiian public high school students first tried cigarette smoking before age 13  | 14.2%<br>(CI 9.9-18.5)  | 9.0%<br>(CI 7.4-10.5)   |   | •         |
| 2015<br>YRBS | <b>19.2 percent</b> of Native Hawaiian public high school students engaged in binge drinking within the past 30 days  | 19.2%<br>(Cl 16.0-22.4) | 13.4%<br>(CI 12.1-14.8) | * | <b>^</b>  |
| 2015<br>YRBS | 59.4 percent of Native Hawaiian public high school students have ever drank alcohol   | 59.4%<br>(CI 55.6-63.1) | 49.4%<br>(Cl 46.3-52.4) | * | <b>^</b>  |

| 2015<br>YRBS | <b>26.0 percent</b> of Native Hawaiian public high school students had their first drink before age 13   | 26.0%<br>(CI 21.1-31.0) | 16.9%<br>(CI 14.4-19.3) | * | <b>^</b>  |
|--------------|--|-------------------------|-------------------------|---|-----------|
| 2015<br>YRBS | <b>30.1 percent</b> of Native Hawaiian public high school students have consumed alcohol within the past 30 days   | 30.1%<br>(CI 26.2-34.0) | 25.1%<br>(Cl 23.1-27.2) |   |           |
| 2015<br>YRBS | 7.8 percent of Native Hawaiian public high school students have ever used cocaine  | 7.8%<br>(CI 6.0-9.5)    | 5.7%<br>(CI 4.6-6.7)    |   | <b>\$</b> |
| 2015<br>YRBS | 8.5 percent of Native Hawaiian public high school students have ever used ecstasy  | 8.5%<br>(CI 6.4-10.6)   | 8.0%<br>(CI 6.6-9.4)    |   |           |
| 2015<br>YRBS | 10.2 percent of Native Hawaiian public high school students have ever used inhalants to get high   | 10.2%<br>(CI 7.8-12.5)  | 8.0%<br>(CI 7.0-9.1)    |   | <b>^</b>  |
| 2015<br>YRBS | 4.9 percent of Native Hawaiian public high school students have ever used methamphetamines   | 4.9%<br>(CI 3.6-6.3)    | 3.8%<br>(CI 3.0-4.6)    |   | <u></u>   |
| 2015<br>YRBS | 14.8 percent of Native Hawaiian public high school students have taken a prescription drug such as OxyContin, Vicodin, tranquilizers, Valium, Xanax, or Ritalin without a doctor's prescription one or more times during their life                      | 14.8%<br>(Cl 11.4-18.1) | 12.3%<br>(Cl 10.4-14.3) |   | •         |
| 2015<br>YRBS | <b>7.8 percent</b> of Native Hawaiian public high school students have ever used hallucinogenic drugs, such as LSD, acid, PCP, angel dust, mescaline, or mushrooms   | 7.8%<br>(CI 6.0-9.6)    | 8.1%<br>(CI 6.7-9.4)    |   | <b>•</b>  |
| 2015<br>YRBS | <b>60.3 percent</b> of Native Hawaiian public high school students have never used any illicit drugs (marijuana, crack, other forms of cocaine, heroin, or use of other opiates, stimulants, barbiturates, or tranquilizers not under a doctor's orders) | 60.3%<br>(CI 56.0-64.7) | 73.1%<br>(CI 70.2-75.9) | * | •         |
| 2015<br>YRBS | <b>40.0 percent</b> of Native Hawaiian public high school students have consumed alcohol or marijuana within the past 30 days  | 40.0%<br>(CI 35.5-44.5) | 31.9%<br>(CI 29.7-34.0) | * |           |
| 2015<br>YRBS | <b>31.2 percent</b> of Native Hawaiian public high school students had sexual intercourse with one or more people during the past three months   | 31.2%<br>(CI 27.2-35.1) | 22.3%<br>(CI 20.2-24.4) | * | <b>†</b>  |
| 2015<br>YRBS | <b>48.4 percent</b> of Native Hawaiian public high school students responded that they or their partner used condoms the last time they had sexual intercourse, among students who had sexual intercourse during the past 3 months                       | 48.4%<br>(CI 40.1-57.4) | 51.7%<br>(Cl 47.3-56.1) | • | •         |
| 2015<br>YRBS | <b>55.1 percent</b> of Native Hawaiian public high school students used birth control pills, condoms, Depo-provera, Nuva Ring, Implanon, or any IUD, to prevent pregnancy, among students who had sexual intercourse during the past 3 months            | 55.1%<br>(CI 45.9-64.3) | 64.5%<br>(CI 58.0-70.9) | • | •         |
| 2015<br>YRBS | <b>5.2 percent</b> of Native Hawaiian public high school students had sexual intercourse for the first time before age 13  | 5.2%<br>(CI 3.6-6.7)    | 3.5%<br>(CI 2.8-4.1)    |   | <b>^</b>  |

|              | 'Ōpio Mortality   |                               |                             |   |               |
|--------------|---|-------------------------------|-----------------------------|---|---------------|
| 2015<br>VS   | <b>48.6 percent</b> of deaths of resident adolescents 15-19 year of age were Native Hawaiian  | 17 deaths                     | 35 deaths                   | • | <b>^</b>      |
|              | Social Determinants of Health   |                               |                             |   |               |
| 2015<br>ACS  | 32.2 percent of Native Hawaiian children under 18 years live in family households   | 32.2%<br>(MOE ± 2.1)          | 25.8%<br>(MOE ± 0.9)        | * | <b>^</b>      |
| 2015<br>ACS  | 21.4 percent of Native Hawaiian children under 18 years live in a married-couple family households  | 21.4%<br>(MOE ± 1.9)          | 19.6%<br>(MOE ± 0.9)        |   | <b>\$</b>     |
| 2015<br>ACS  | <b>7.8 percent</b> of Native Hawaiian children under 18 years live in household headed by a female householder, no husband present  | 7.8%<br>(MOE ± 1.6)           | 4.2%<br>(MOE ± 0.4)         | * | <b>\$</b>     |
| 2015<br>ACS  | 15.0 percent of Native Hawaiian families with related children under 18 years live in poverty   | 15.0%<br>(MOE ± 3.1)          | 10.2%<br>(MOE ± 1.3)        | * | <b>^</b>      |
| 2015<br>ACS  | <b>31.5 percent</b> of Native Hawaiian families with female householder, no husband present with related children under 18 years live in poverty  | 31.5%<br>(MOE ± 8.5)          | 26.2%<br>(MOE ± -4.0)       |   | $\Rightarrow$ |
| 2009<br>YRBS | 61.2 percent of Native Hawaiian public high school students reported that they will definitely complete high school   | 61.2%<br>(CI 53.7-68.7)       | 72.3%<br>(CI 69.0-75.6)     |   | •             |
| 2015<br>YRBS | <b>36.7 percent</b> of Native Hawaiian public high school students reported that they will definitely complete a post high school program such as a vocational training program, military service, community college, or 4-year college | 36.7%<br>(CI 33.7-39.7)       | 46.3%<br>(CI 42.6-50.0)     | • | 1             |
| 2015<br>YRBS | <b>56.3 percent</b> of Native Hawaiian public high school students would describe their grades in school in the past 12 months as mostly A's and B's  | 56.3%<br>(CI 49.7-63.0)       | 66.8%<br>(CI 62.2-71.4)     |   | <b>₹</b>      |
| 2015<br>ACS  | 22.5 percent of Native Hawaiians are enrolled in high school (grades 9-12)  | 22.5%<br>(MOE ± 2.2)          | 19.8%<br>(MOE ± 0.8)        |   | 1             |
| 2015<br>ACS  | 18.8 percent of Native Hawaiians are enrolled in college or graduate school   | 18.8%<br>(MOE ± 2.1)          | 29.5%<br>(MOE ± 1.0)        | * | $\Rightarrow$ |
| 2015<br>YTS  | <b>26.3 percent</b> of Native Hawaiian public high school students receive more than \$50 spending money per week   | 26.3%<br>(CI 20.7-31.8)       | 25.5%<br>(CI 22.9-28.1)     |   | •             |
| 2015<br>OYS  | <b>69.0 percent</b> of admissions to the Hawai'i Youth Correctional Facility were Native Hawaiian   | 69.0%<br>(Native<br>Hawaiian) | 31.0%<br>(Non-<br>Hawaiian) | • | $\Rightarrow$ |

| 2014<br>CIH | 30.8 percent of juveniles arrested for Index Crime Offenses were Native Hawaiian | 30.8%<br>(Native<br>Hawaiian) | 69.2%<br>(Non-<br>Hawaiian) | • | <u>~</u> |
|-------------|--|-------------------------------|-----------------------------|---|----------|
| 2014<br>CIH | 32.8 percent of juveniles arrested for Part II Offenses were Native Hawaiian     | 32.8%<br>(Native<br>Hawaiian) | 67.2%<br>(Non-<br>Hawaiian) | • | <b>•</b> |

**2016 Native Hawaiian Fact Sheet** 

# HEALTHY ADULTS (Makua)



| Data<br>Year  | Health Measure  | Native<br>Hawaiian      | State of<br>Hawaiʻi     | Native<br>Hawaiians<br>and<br>State | Recent<br>Native<br>Hawaiian<br>Trend |
|---------------|---|-------------------------|-------------------------|-------------------------------------|---------------------------------------|
|               | Reported Mākua Health Conditions  |                         |                         |                                     |                                       |
| 2014<br>BRFSS | 6.7 percent of Native Hawaiian adults have been diagnosed with some type of cancer                | 6.7%<br>(CI 5.0-8.5)    | 9.3%<br>(Cl 8.5-10.1)   | _                                   |                                       |
| 2014<br>BRFSS | <b>5.4 percent</b> of Native Hawaiian adults have been diagnosed with some kind of kidney disease | 5.4%<br>(CI 2.9-7.8)    | 4.2%<br>(CI 3.5-4.8)    |                                     | •                                     |
| 2014<br>BRFSS | 21.1 percent of Native Hawaiians adults have been diagnosed with some form of arthritis           | 21.1%<br>(Cl 17.8-24.4) | 20.7%<br>(CI 19.4-22.0) |                                     | $\Rightarrow$                         |
| 2014<br>BRFSS | 12.8 percent of Native Hawaiians adults have been diagnosed with diabetes                         | 12.8%<br>(CI 10.0-15.7) | 9.7%<br>(Cl 8.8-10.7)   |                                     |                                       |
| 2014<br>BRFSS | 4.8 percent of Native Hawaiians adults have had a heart attack                                    | 4.8%<br>(CI 3.4-6.2)    | 3.1%<br>(CI 2.6-3.6)    |                                     | <b>\$</b>                             |
| 2014<br>BRFSS | 4.2 percent of Native Hawaiians adults have coronary heart disease                                | 4.2%<br>(CI 2.7-5.7)    | 3.4%<br>(CI 2.8-4.0)    |                                     | <b>\$</b>                             |
| 2014<br>BRFSS | 3.7 percent of Native Hawaiians adults have had a stroke  | 3.7%<br>(CI 2.4-4.9)    | 3.1%<br>(CI 2.6-3.6)    |                                     |                                       |
| 2013<br>BRFSS | 32.3 percent of Native Hawaiians adults have high cholesterol                                     | 32.3%<br>(CI 27.7-37.0) | 34.9%<br>(CI 33.3-36.6) |                                     | <b>•</b>                              |
| 2013<br>BRFSS | 29.7 percent of Native Hawaiians adults have high blood pressure                                  | 29.7%<br>(CI 25.5-33.9  | 28.5%<br>(CI 27.0-29.9) |                                     | •                                     |
| 2014<br>BRFSS | 28.4 percent of Native Hawaiians adults have been diagnosed with asthma                           | 28.4%<br>(Cl 23.8-32.9) | 16.2%<br>(CI 14.9-17.5) | *                                   | <b>✓</b>                              |

| 2014<br>BRFSS | 23.7 percent of Native Hawaiians adults live with at least one disability  | 23.7%<br>(CI 19.8-27.7) | 16.4%<br>(CI 15.3-17.6) |   | <b>•</b>  |
|---------------|--|-------------------------|-------------------------|---|-----------|
| 2015<br>ACS   | 10.7 percent of Native Hawaiian civilian noninstitutionalized population 18 to 64 years reported a disability                                | 10.7%<br>(MOE ± 1.2)    | 7.7%<br>(MOE ± 0.4)     | * | <b>~</b>  |
| 2014<br>BRFSS | 19.6 percent of Native Hawaiians have health that is fair or poor  | 19.6%<br>(CI 16.4-22.7) | 14.5%<br>(CI 13.4-15.7) | * | <b>\$</b> |
| 2013<br>BRFSS | 7.5 percent of Native Hawaiians adults have experienced rape or attempted rape   | 7.5%<br>(CI 4.8-10.2)   | 5.8%<br>(CI 5.0-6.6)    |   | •         |
| 2013<br>BRFSS | <b>12.6 percent</b> of Native Hawaiians adults have experienced physical abuse by a current or former intimate partner                       | 12.6%<br>(CI 9.0-16.1)  | 9.5%<br>(Cl 8.5-10.6)   |   | •         |
| 2014<br>BRFSS | <b>52.0 percent</b> of Native Hawaiian adults aged 45 or older have been injured as a result of an accidental fall within the past 12 months | 52.0%<br>(CI 40.5-63.5) | 35.2%<br>(Cl 31.3-39.2) |   | •         |
| 2014<br>BRFSS | 38.7 percent of Native Hawaiian adults are obese (BMI>=30)   | 38.7%<br>(CI 34.3-43.1) | 22.1%<br>(Cl 20.7-23.4) | * |           |
| 2014<br>BRFSS | 37.0 percent of Native Hawaiian adults are overweight (25<= BMI< 30)   | 37.0%<br>(CI 32.5-41.5) | 36.0%<br>(CI 34.4-37.7) |   | <b>\</b>  |
| 2014<br>BRFSS | 75.7 percent of Native Hawaiian adults are overweight or obese   | 75.7%<br>(CI 71.6-79.8) | 58.1%<br>(CI 56.4-59.8) | * | <b>‡</b>  |
| 2014<br>BRFSS | 10.5 percent of Native Hawaiian adults whose mental health was not good on 14 or more days of the past 30 days                               | 10.5%<br>(CI 8.3-12.8)  | 8.4%<br>(Cl 7.5-9.3)    |   | <b>\$</b> |
| 2014<br>BRFSS | 20.2 percent of Native Hawaiian adults whose mental health was not good on 6 or more days of the past 30 days                                | 20.2%<br>(CI 16.5-23.9) | 13.0%<br>(Cl 11.9-14.1) | * | <b>\$</b> |
| 2014<br>BRFSS | <b>15.8 percent</b> of Native Hawaiian adults have been diagnosed with a depressive disorder   | 15.8%<br>(CI 12.5-19.2) | 10.7%<br>(Cl 9.8-11.7)  | * | <b>\</b>  |
|               | Modifiable Mākua Risk Behaviors  |                         |                         |   |           |
| 2014<br>BRFSS | 85.5 percent of Native Hawaiian women aged 40 and older ever had a clinical breast exam  | 85.5%<br>(CI 80.5-90.6) | 84.5%<br>(CI 82.4-86.6) |   | <b>‡</b>  |
| 2014<br>BRFSS | <b>54.1 percent</b> of Native Hawaiian women aged 40 and older have had a clinical breast exam within the past year                          | 54.1%<br>(Cl 46.7-61.4) | 55.2%<br>(CI 52.4-57.9) |   | <b>\$</b> |
| 2014<br>BRFSS | 92.5 percent of Native Hawaiian women aged 40 and older ever had a mammogram   | 92.5%<br>(Cl 88.9-96.1) | 93.5%<br>(CI 92.1-94.8) |   | 1         |

| 2014<br>BRFSS | 79.5 percent of Native Hawaiian women aged 40 and older have had a mammogram within the past 2 years   | 79.5%<br>(CI 72.8-86.1) | 78.8%<br>(CI 76.5-81.1) |   | <b>~</b>  |
|---------------|--|-------------------------|-------------------------|---|-----------|
| 2014<br>BRFSS | 84.5 percent of Native Hawaiian women ever had a pap smear   | 84.5%<br>(CI 79.7-89.4) | 83.7%<br>(Cl 81.7-85.7) |   | <b>\$</b> |
| 2014<br>BRFSS | 70.7 percent of Native Hawaiian women have had a pap smear within the past 3 years   | 70.7%<br>(CI 64.9-76.5) | 69.0%<br>(CI 66.7-71.2) |   | <b>\$</b> |
| 2014<br>BRFSS | <b>60.4 percent</b> of Native Hawaiians ages 50-75 have had a blood stool test in the past year, sigmoidoscopy in the past 5 years and blood stool test in the past 3 years, or a colonoscopy in the past 10 years | 60.4%<br>(CI 54.4-66.4) | 66.5%<br>(CI 64.2-68.8) | • | <b>→</b>  |
| 2014<br>BRFSS | <b>58.9 percent</b> of Native Hawaiians aged 50 and older had a sigmoidoscopy or a colonoscopy   | 58.9%<br>(CI 53.1-64.7) | 65.7%<br>(CI 63.6-67.9) |   | <b>₹</b>  |
| 2014<br>BRFSS | <b>39.4 percent</b> of Native Hawaiians aged 50 and older had a blood stool test using a home kit  | 39.4%<br>(Cl 33.8-45.1) | 45.2%<br>(Cl 43.1-47.4) |   | <b>\$</b> |
| 2014<br>BRFSS | 27.3 percent of Native Hawaiian men aged 40 and older ever had a prostate-specific antigen (PSA) test  | 27.3%<br>(CI 20.7-33.8) | 46.0%<br>(CI 43.1-48.9) | * | <b>^</b>  |
| 2014<br>BRFSS | <b>22.4 percent</b> of Native Hawaiian men aged 40 and older have had a PSA test within the past 2 years   | 22.4%<br>(CI 16.3-28.4) | 35.4%<br>(Cl 32.7-38.1) | * | <b></b> ✓ |
| 2014<br>BRFSS | 29.5 percent of Native Hawaiian ever had a pneumonia shot  | 29.5%<br>(CI 25.0-33.9) | 31.6%<br>(CI 30.0-33.2) |   | <b>\$</b> |
| 2014<br>BRFSS | <b>38.5 percent</b> of Native Hawaiian adults ages 18-64 have had a flu shot or spray in the past 12 months  | 38.5%<br>(CI 33.3-43.6) | 40.3%<br>(CI 38.3-42.3) |   | <b></b> ✓ |
| 2014<br>BRFSS | 27.0 percent of Native Hawaiian adults are current smokers   | 27.0%<br>(CI 22.8-31.2) | 14.1%<br>(CI 13.0-15.3) | * | <b>\$</b> |
| 2014<br>BRFSS | <b>6.5 percent</b> of Native Hawaiian adults recently stopped smoking (within the last 6 months to a year)   | 6.5%<br>(CI 3.0-10.0)   | 9.0%<br>(CI 6.6-11.5)   |   | •         |
| 2012<br>BRFSS | 17.3 percent of Native Hawaiian adult non-smokers were exposed to secondhand smoke within their home within the past week  | 17.3%<br>(CI 11.9-22.6) | 7.7%<br>(CI 6.4-8.9)    |   | •         |
| 2014<br>BRFSS | <b>48.0 percent</b> of Native Hawaiian adults have had at least one drink of alcohol within the past 30 days   | 48.0%<br>(CI 43.4-52.6) | 51.0%<br>(CI 49.3-52.7) |   | <b>\$</b> |
| 2014<br>BRFSS | 10.0 percent of Native Hawaiian adults are heavy drinkers of alcohol (men having >2 drinks per day, women having >1 drink per day)   | 10.0%<br>(CI 43.4-52.6) | 7.9%<br>(CI 7.0-8.8)    |   | <b>^</b>  |

| 2014<br>BRFSS | <b>30.2 percent</b> of Native Hawaiian adults are binge drinkers of alcohol (men having five or more drinks on one occasion and women having four or more drinks on one occasion)             | 30.2%<br>(CI 25.7-34.7) | 19.7%<br>(CI 18.3-21.1) | *        | <b>‡</b>  |
|---------------|---|-------------------------|-------------------------|----------|-----------|
| 2014<br>BRFSS | 30.8 percent of Native Hawaiian adults are heavy or binge drinkers (men having >2 drinks per day, women having >1 drink per day)  | 30.8%<br>(CI 26.3-35.4) | 21.1%<br>(CI 19.7-22.5) | *        | <b>\$</b> |
| 2014<br>BRFSS | 7.7 percent of Native Hawaiian adults drink and drive   | 7.7%<br>(CI 4.3-11.2)   | 4.1%<br>(CI 3.2-5.0)    |          | •         |
| 2012<br>BRFSS | 5.4 percent of Native Hawaiian adults ages18-64 participate in high HIV risk situations   | 5.4%<br>(CI 2.5-8.2)    | 3.9%<br>(C.I 3.1-4.7)   |          | •         |
| 2014<br>BRFSS | 62.3 percent of Native Hawaiian adults have visited a dentist in the past year  | 62.3%<br>(CI 58.0-66.5) | 71.6%<br>(CI 70.1-73.1) |          | •         |
| 2013<br>BRFSS | <b>20.2 percent</b> of Native Hawaiian adults consume fruits and vegetables a total of 5 or more times per day  | 20.2%<br>(CI 16.4-23.9) | 18.1%<br>(CI 16.9-19.4) |          | •         |
| 2014<br>BRFSS | <b>81.2 percent</b> of Native Hawaiian adults participated in leisure time physical exercise during the past month  | 81.2%<br>(CI 79.1-81.7) | 80.4%<br>(CI 79.1-81.7) |          | <b>₹</b>  |
|               | Mākua Mortality   |                         |                         |          |           |
| 2015<br>VS    | 36.9 percent of deaths of resident adults 20-29 years of age were Native Hawaiian   | 52 deaths               | 141 deaths              | •        | <b>▼</b>  |
| 2015<br>VS    | 31.0 percent of deaths of resident adults 30-39 years of age were Native Hawaiian   | 54 deaths               | 174 deaths              | •        | <u></u>   |
|               |   |                         |                         |          | •         |
| 2015<br>VS    | 27.9 percent of deaths of resident adults 40-49 years of age were Native Hawaiian   | 100 deaths              | 358 deaths              | •        | <u></u>   |
|               | <ul><li>27.9 percent of deaths of resident adults 40-49 years of age were Native Hawaiian</li><li>27.7 percent of deaths of resident adults 50-59 years of age were Native Hawaiian</li></ul> | 100 deaths 271 deaths   | 358 deaths 977 deaths   | <b>*</b> | <u></u>   |
| VS<br>2015    |   |                         |                         | <b>♦</b> | <b>\_</b> |
| VS<br>2015    | 27.7 percent of deaths of resident adults 50-59 years of age were Native Hawaiian   |                         |                         | <b>•</b> | <b>1</b>  |

| 2014<br>BRFSS | 19.9 percent of Native Hawaiian adults have one (or more) person(s) they think of as their personal doctor or health care provider | 19.9%<br>(CI 16.5-23.3)       | 21.2%<br>(CI 19.9-22.5)     |   | •         |
|---------------|--|-------------------------------|-----------------------------|---|-----------|
| 2014<br>BRFSS | 10.9 percent of Native Hawaiian adults needed to see a doctor but could not because of the cost within the past 12 months          | 10.9%<br>(CI 8.1-13.7)        | 8.7%<br>(CI 7.8-9.7)        |   | <b>\$</b> |
| 2015<br>ACS   | 13.3 percent of Native Hawaiians ages 18-64 years live in poverty  | 13.3%<br>(MOE ± 1.5)          | 10.1%<br>(MOE ± 0.6)        | * | <b>\$</b> |
| 2015<br>ACS   | Native Hawaiians unemployment rate in the civilian labor force (6.9 percent)   | 6.9%<br>(MOE ± 1.1)           | 4.9%<br>(MOE ± 0.4)         | * | <b>^</b>  |
| 2015<br>ACS   | Native Hawaiian female unemployment rate in the civilian labor force (6.0 percent)   | 6.0%<br>(MOE ± 1.4)           | 5.1%<br>(MOE ± 0.6)         |   | <b>^</b>  |
| 2015<br>ACS   | <b>92.6 percent</b> of Native Hawaiians aged 25 years and over are a high school graduate or higher                                | 92.6%<br>(MOE ± 0.8)          | 90.9%<br>(MOE ± 0.6)        | * | <b>▼</b>  |
| 2015<br>ACS   | <b>16.4 percent</b> of Native Hawaiians aged 25 years and over have a bachelor's degree or higher                                  | 16.4%<br>(MOE ± 1.5)          | 31.4%<br>(MOE ± 0.7)        | * | <b>▼</b>  |
| 2015<br>ACS   | <b>18.2 percent</b> of Native Hawaiian households are headed by a female householder, no husband present                           | 18.2%<br>(MOE ± 2.4)          | 11.7%<br>(MOE ± 0.7)        | * | <b>‡</b>  |
| 2014<br>BRFSS | 10.9 percent of Native Hawaiians served on active duty in the US Armed Forces  | 10.9%<br>(CI 8.6-13.2)        | 15.5%<br>(CI 14.3-16.7)     | * | <b>‡</b>  |
| 2014<br>CIH   | 31.1 percent of adults arrested for Index Offenses were Native Hawaiian  | 31.1%<br>(Native<br>Hawaiian) | 68.9%<br>(Non-<br>Hawaiian) | • | <b>▼</b>  |
| 2014<br>CIH   | 26.9 percent of adults arrested for Part II Offenses were Native Hawaiian  | 26.9%<br>(Native<br>Hawaiian) | 73.1%<br>(Non-<br>Hawaiian) | • | <b>₹</b>  |

2017 Native Hawaiian Fact Sheet

HEALTHY AGING (Kupuna)

| Data<br>Year  | Health Measure   | Native<br>Hawaiian      | State of<br>Hawaiʻi     | Native<br>Hawaiians<br>and<br>State | Recent<br>Native<br>Hawaiian<br>Trend |
|---------------|--|-------------------------|-------------------------|-------------------------------------|---------------------------------------|
|               | Reported Kūpuna Health Conditions  |                         |                         |                                     |                                       |
| 2011<br>BRFSS | 4.0 percent of Native Hawaiian adult men aged 40 and older have ever had prostate cancer                                     | 4.0%<br>(CI 1.0-7.0)    | 3.5%<br>(CI 2.6-4.5)    |                                     | •                                     |
| 2015<br>ACS   | <b>36.3 percent</b> of Native Hawaiian civilian noninstitutionalized population 65 years and over with a reported disability | 36.3%<br>(MOE ± 4.7)    | 33.0%<br>(MOE ±1.5)     |                                     | <b>\$</b>                             |
|               | Modifiable Kūpuna Risk Behaviors   |                         |                         |                                     |                                       |
| 2014<br>BRFSS | 85.5 percent of Native Hawaiian adult women aged 40 and older have ever had a clinical breast exam                           | 85.5%<br>(CI 80.5-90.6) | 84.5%<br>(CI 82.4-86.6) |                                     | <b>‡</b>                              |
| 2014<br>BRFSS | 92.5 percent of Native Hawaiian women aged 40 and older have had a mammogram   | 92.5%<br>(Cl 88.9-96.1) | 93.5%<br>(CI 92.1-94.8) |                                     | <b>\$</b>                             |
| 2014<br>BRFSS | <b>85.1 percent</b> of Native Hawaiian women aged 50 and older have had a mammogram within the past two years                | 85.1%<br>(CI 79.8-90.4) | 81.2%<br>(CI 78.8-83.6) |                                     | <b>₹</b>                              |
| 2014<br>BRFSS | 27.3 percent of Native Hawaiian men aged 40 and older have ever had a prostate-specific antigen (PSA) test                   | 27.3%<br>(CI 20.7-33.8) | 46.0%<br>(CI 43.1-48.9) | *                                   | <b>^</b>                              |
| 2014<br>BRFSS | 60.4 percent of Native Hawaiian adults aged 50-75 have had a colorectal screening  | 60.4%<br>(CI 54.4-66.4) | 66.5%<br>(CI 64.2-68.8) |                                     |                                       |
| 2014<br>BRFSS | <b>60.5 percent</b> of Native Hawaiian adults aged 65 and older have had a flu shot or spray in the past 12 months           | 60.5%<br>(CI 51.0-69.9) | 65.5%<br>(CI 62.6-68.3) |                                     | <b>\$</b>                             |

| 2014<br>BRFSS | <b>55.3 percent</b> of Native Hawaiian adults aged 65 and older have ever had a pneumonia shot  | 55.3%<br>(CI 45.3-65.3) | 64.6%<br>(CI 61.5-67.7) |   | <b>✓</b>  |
|---------------|---|-------------------------|-------------------------|---|-----------|
| 2014<br>BRFSS | <b>30.6 percent</b> of Native Hawaiian men aged 65 and older reported flu shot in past year, pneumonia vaccination ever and either a colonoscopy/ sigmoidoscopy in 10 years or fecal occult blood test (FOBT) in past year                                    | 30.6%<br>(CI 16.3-45.0) | 37.8%<br>(Cl 33.1-42.5) | • | •         |
| 2014<br>BRFSS | <b>27.6 percent</b> of Native Hawaiian adult women 65 and over reported flu shot in past year, pneumonia vaccination ever and either a colonoscopy/ sigmoidoscopy in 10 years or fecal occult blood test (FOBT) in past year plus a mammogram in past 2 years | 27.6%<br>(CI 15.5-39.6) | 38.3%<br>(CI 33.9-42.7) | • | •         |
|               | Kūpuna Mortality  |                         |                         |   |           |
| 2015<br>VS    | 13.1 percent of deaths of resident adults 65 years and over were Native Hawaiian  | 1,077 deaths            | 8,205 deaths            | • | <b>₹</b>  |
|               | Social Determinants of Health   |                         |                         |   |           |
| 2015<br>ACS   | 7.8 percent of Native Hawaiians 65 years and over live in poverty   | 7.8%<br>(MOE ± 2.5)     | 7.8%<br>(MOE ± 0.9)     |   | <b>\$</b> |
| 2015<br>ACS   | 33.6 percent of Native Hawaiians have Social Security income  | 33.6%<br>(MOE ± 2.3)    | 34.7%<br>(MOE ± 0.8)    |   | <b>₹</b>  |
| 2015<br>ACS   | 23.8 percent of Native Hawaiians have retirement income   | 23.8%<br>(MOE ± 2.4)    | 24.0%<br>(MOE ± 0.9)    |   | <b>₹</b>  |
| 2015<br>ACS   | 8.4 percent of Native Hawaiians living with grandchild(ren)   | 8.4%<br>(MOE ± 1.0)     | 6.2%<br>(MOE ± 0.5)     | * | <b>^</b>  |
| 2015<br>ACS   | <b>26.2 percent</b> of Native Hawaiians living with grandchild(ren) are responsible for grandchild(ren)   | 26.2%<br>(MOE ± 5.7)    | 18.1%<br>(MOE ± 2.8)    |   | <b>1</b>  |

## **SOURCES**



| American Community Survey (ACS)  | The American Community Survey (ACS) is an on-going nation-wide statistical survey, sent to approximately 295,000 addresses monthly. The survey-based data collects information on ancestry, educational attainment, income, language proficiency, migration, disability, employment, and housing characteristics. These data are used by many public, private, and nonprofit stakeholders to allocate funding, track shifting demographics, and learn about local communities. All published American Community Survey (ACS) margins of error are based on a 90-percent confidence level. (US Bureau of the Census) |
|--|---|
| Behavioral Risk Factor Survey<br>System (BRFSS)/ Hawai'i<br>Behavioral Risk Factor Survey<br>System (HBRFSS) | Behavioral Risk Factor Surveillance System (BRFSS) is an on-going nation-wide phone surveillance system. The survey-based surveillance system tracks health risks in the US as a way of improving the general population's health. (US Centers for Disease Control and Prevention) The Hawai'i Behavioral Risk Factor Survey System (HBRFSS) is the implementation of the BRFSS in the State of Hawai'i. (Hawai'i State Department of Health)   |
| Centers for Disease Control and Prevention (CDC)   | The Centers for Disease Control and Prevention (CDC) is the leading public health institute of the US. Its main function is to protect public health and safety through the control and prevention of disease, injury, and disability. The CDC focuses national attention on developing and applying disease control and prevention. Unless noted, all published CDC reports are based on a 95-percent confidence level. (US Department of Health and Human Services)   |
| Child Abuse and Neglect (CAN)  | The annual <i>Child Abuse and Neglect</i> (CAN) reports provide population-based data on the reported and confirmed cases of child abuse (physical, sexual, psychological), neglect (including medical), and threatened harm in the State of Hawai'i and its counties. (Hawai'i State, Department of Human Service)   |
| Crime in Hawai'i (CIH)   | The annual <i>Crime in Hawai'i Uniform Crime Reports</i> provide comprehensive population-based data and analysis to the Attorney General and other criminal justice agencies, legislators, crime prevention and community mobilization groups, academic and research institutions, service providers, news media, and the general public. (Hawai'i State Department of the Attorney General)   |
| Hawai'i Health Data Warehouse<br>(HHDW)  | The Hawai'i Health Data Warehouse (HHDW) administers the design, creation, and management of a centralized data warehouse, standardizes the collection and management of Hawai'i's health data. The HHDW is the primary portal for the Hawai'i Behavioral Risk Factor Survey System (HBRFSS), Hawai'i Health Survey (HHS), Hawai'i Pregnancy Risk Assessment Monitoring System (HPRAMS), Vital Statistics (VS), Youth Risk Behavioral Survey (YRBS), Youth Tobacco Survey (YTS), and others. (Hawai'i State Department of Health)   |
| Hawai'i Heath Survey (HHS)   | The Hawai'i Health Survey (HHS) is an on-going statewide household survey of health and socio-demographic conditions. The survey-based surveillance system provides demographic information for observing population changes. It provides state and sub-area estimates of gender, age, income, race, education, household size, insurance status, health status, morbidity, and food security. (Hawai'i State Department of Health)   |

| Hawaiʻi School Health Survey<br>(HSHS)  | The bi-annual Hawai'i School Health Survey (HSHS) is a joint effort between the Hawaii Departments of Health and Education to monitor the health status and needs of public school students in grades 6 through 12 (middle school, high school). The HSHS coordinates the Youth Risk Behavioral Survey (YRBS) and Youth Tobacco Survey (YTS) under one umbrella to minimize disruption in the schools and maximize the health information collected. (Hawai'i State Department of Health, Department of Education)  |
|---|---|
| Office of Health Status<br>Monitoring (OHSM)  | The Office of Health Status Monitoring is responsible for the compilation of vital statistics (VS) births and deaths in the State of Hawai'i. The office is also responsible for the implementation for the Hawai'i Behavioral Risk Factor Survey System (HBRFSS) and Hawai'i Heath Survey (HHS). (Hawai'i State Department of Health)  |
| National Immunization Surveys<br>(NIS)  | The National Immunization Surveys (NIS) are a group of telephone surveys sponsored and conducted by the National Center for Immunization and Respiratory Diseases (NCIRD). The NIS uses a dual frame survey design. They interview parents or guardians. If the parent or guardian provides consent and contact information, a mailed questionnaire is sent to the children's vaccination providers. (US Centers for Disease Control and Prevention)  |
| Office of Youth Services (OYS)  | The Office of Youth Services (OYS) provides programs and services for Hawai'i's at-risk youth, to prevent delinquency, reduce recidivism, and maximize opportunities. The OYS operates the Hawai'i Youth Correctional Facility (HYCF), a facility to provide care and custody of at-risk youth committed to the State by the Family Courts. (Hawai'i State Department of Human Services)  |
| Pregnancy Risk Assessment<br>Monitoring System (PRAMS)/<br>Hawai'i Pregnancy Risk<br>Assessment Monitoring System<br>(HPRAMS) | The Pregnancy Risk Assessment Monitoring System (PRAMS) is an on-going population-based surveillance system designed to identify and monitor maternal experiences, attitudes, and behaviors from preconception, throughout pregnancy and into the interconception periods. (US Centers for Disease Control and Prevention) The Hawai'i Pregnancy Risk Assessment Monitoring System (HPRAMS) is the implementation of PRAMS in Hawai'i. (Hawai'i State Department of Health)   |
| United States Census Bureau<br>(USCB)   | The US Census Bureau is the leading agency responsible for producing data about the American people and economy. The Census Bureau's primary mission is conducting the US Census every ten years, which allocates congressional seats to the states based on their population. In addition to the decennial census, the Census Bureau continually conducts dozens of other censuses and surveys, including the American Community Survey (ACS), the US Economic Census (EC), and the Current Population Survey (CPS). The Bureau's various censuses and surveys help allocate federal funds and help states, local communities, and businesses make informed decisions. (US Department of Commerce) |
| Vital Statistics (VS)   | The collection of vital statistics data including births, deaths, and marriages is coordinated by the Office of Health Status Monitoring (OHSM) in the State of Hawai'i. (Hawai'i State Department of Health)   |
| Youth Risk Behavioral Survey<br>(YRBS)  | A national school-based survey conducted by the CDC in conjunction with the State of Hawai'i Department of Health. The bi-annual YRBS monitors health conditions and risk behaviors among public middle and high school students, grades 6 through 12. (Hawai'i State Department of Health, Department of Education)  |
| Youth Tobacco Survey (YTS)  | Also known as NYTS (National Youth Tobacco Survey), the bi-annual NYTS was designed to provide data on long, intermediate, and short-term indicators key to the design, implementation, and evaluation of comprehensive tobacco prevention and control programs. (Hawai'i State Department of Health, Department of Education)  |

| Birth Weight             | Birth weight is the body weight of a baby at its birth.  Normal birth weight is 2500–4200 g (5lbs, 8oz – 9lbs 4oz)  Low birth weight (LBW) is less than 2500 g (5lbs, 8oz)  Very low birth weight (VLBW) is less than 1500 g (3lbs, 5oz)  Extremely low birth weight (ELBW) is less than 1000 g (2lbs 3oz)  |
|--------------------------|---|
| Body Mass Index (BMI)    | Body mass index (BMI) is a ratio of body weight (kg) to height (m²) expressed in units of kg/m². If weight is in pounds (lbs) and height in inches (in), multiply the ratio by 703.  • Underweight if BMI is less than 18.5  • Normal weight if BMI is 18.5 to <25  • Overweight if BMI is 25.0 to <30  • Obese if BMI is 30.0 or higher  |
| Child Abuse or Neglect   | The acts or omissions of any person who, or legal entity which, is in any manner or degree related to the child, is residing with the child, or is otherwise responsible for the child's care, that have resulted in the physical or psychological health or welfare of the child, who is under the age of eighteen, to be harmed, or to be subject to any reasonably foreseeable, substantial risk of being harmed. (Section 350-1, Hawai'i Revised Statutes)                  |
| Civilian Labor Force     | Consists of people classified as employed or unemployed, excluded from the employed are people whose only activity consisted of work around the house or unpaid volunteer work for religious, charitable, and similar organizations; also excluded are all institutionalized people and people on active duty in the US Armed Forces. (US Bureau of the Census)   |
| Confidence Interval (CI) | A range of values for a measure, e.g., a rate, constructed so that this range has a specified probability (95%) of including the true value of the measure. The specified probability is called the confidence level, and the end points of the confidence interval are called the confidence limits. Unless noted, all published CDC reports are based on a 95-percent confidence level.   |
| Crime Index              | The ten Part I Offenses reported in the Uniform Crime Reporting (UCR) Program to represent the status of crime in the US: murder and non-negligent manslaughter (the latter term is not used in Hawaiʻi), rape, robbery, aggravated assault, burglary, larceny-theft, motor-vehicle theft, arson, human trafficking: commercial sex acts, and human trafficking: involuntary servitude. (Hawaiʻi State, Department of the Attorney General)(US Federal Bureau of Investigation) |
| Disability Status        | Disability is defined as the product of interactions among individuals' bodies; their physical, emotional, and mental health; and the physical and social environment in which they live, work, or play. Disability exists where this interaction results in limitations of activities and restrictions to full participation at school, at work, at home, or in the community. (US Bureau of the Census)   |
| Educational Attainment   | ACS respondents are classified according to the highest degree or the highest level of school completed. (US Bureau of the Census)  |

| Employment Status         | The series of ACS questions on employment status was designed to identify, in this sequence: (1) people who worked at any time during the reference week; (2) people on temporary layoff who were available for work; (3) people who did not work during the reference week, but who had jobs or businesses from which they were temporarily absent (excluding layoff); (4) people who did not work during the reference week, but who were looking for work during the last four weeks and were available for work during the reference week; and (5) people not in the labor force. (US Bureau of the Census)   |
|---------------------------|---|
| Family Households         | A family consists of a householder and one or more other people living in the same household who are related to the householder by birth, marriage, or adoption. (US Bureau of the Census)  • Married-Couple Family – A family in which the householder and his or her spouse are listed as members of the same household  • Female Householder, No Husband Present – A family with a female householder and no spouse of householder present  • Male Householder, No Wife Present – A family with a male householder and no spouse of householder present  |
| Fetal Death               | Fetal death is death prior to the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy, that did not, after complete separation from the mother, breathe or show any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or movement of voluntary muscle. (Section 338-1, Hawai'i Revised Statutes)   |
| Hawaiian Home Lands (HHL) | Not to be confused with the Department of Hawaiian Home Lands (DHHL), though both are interrelated. The Department of Hawaiian Home Lands (DHHL) is a department of the State of Hawai'i, while Hawaiian Home Lands (HHL) is a geographic term utilized by the US Census Bureau. The Census Bureau handles Native Hawaiian areas in the same manner as American Indian, Alaska Native areas, producing specialized reports and studies.  "Hawaiian Home Lands (HHL) are areas held in trust for Native Hawaiians by the state of Hawaii, pursuant to the Hawaiian Homes Commission Act of 1920, as amended. The Census Bureau obtains the names and boundaries for HHLs from state officials. The names of the home lands are based on the traditional ahupua'a names of the Crown and government lands of the Kingdom of Hawai'i from which the lands were designated or from the local name for an area. Being lands held in trust, HHLs are treated as equivalent to off-reservation trust land areas with the American Indian Trust Land/Hawaiian Home Land Indicator coded as "T." Each HHL is assigned a national four-digit census code ranging from 5000 through 5499 based on the alphabetical sequence of each HHL name, a five-digit Federal Information Processing Series (FIPS) code in alphabetical order within the State of Hawai'i, and an eight-digit National Standard (ANSI) code." (US Bureau of the Census) |
| High Blood Pressure (HBP) | High blood pressure (HBP) is a common disease in which blood flows through blood vessels (arteries) at higher than normal pressures.  Normal: Systolic less than 120 and Diastolic less than 80 Prehypertension: Systolic 120–139 or Diastolic 80–89 High Blood Pressure (Stage 1): Systolic 140–159 or Diastolic 90–99 High Blood Pressure (Stage 2): Systolic 160 or higher or Diastolic 100 or higher Hypertensive Crisis: Systolic Higher than 180 or Diastolic Higher than 110   |

| -                     |   |
|-----------------------|---|
| Household             | A household includes all the people who occupy a housing unit. A housing unit is a house, an apartment, a mobile home, a group of rooms, or a single room that is occupied (or if vacant, is intended for occupancy) as separate living quarters. Separate living quarters are those in which the occupants live separately from any other people in the building and which have direct access from the outside of the building or through a common hall. (US Bureau of the Census)   |
| Householder           | One person in each household designated as the householder. In most cases, this is the person or one of the people in whose name the home is owned, being bought, or rented.  • A family householder is a householder living with one or more individuals related to him or her by birth, marriage, or adoption. (US Bureau of the Census)  |
| Infant Death          | A death of an infant during the first 0–364 days of life. The infant mortality rate (IMR), is the number of deaths of children under one year of age per 1000 live births.  • Infant death is the death of an infant before one year of life  • Neonatal death is the death of an infant during the first 0–27 days of life  • Early neonatal is the death of an infant less than 7 days of life  • Late neonatal is the death of an infant between 7 to 27 days of life  • Post neonatal death is the death of an infant during the first 28–364 days of life  • Perinatal death is the number of fetal deaths + neonatal deaths |
| Juvenile              | Person under the age of 18. (Hawai'i State, Department of the Attorney General)   |
| Live Birth            | Live birth is the complete expulsion or extraction from its mother of a product of conception that did, after the complete expulsion or extraction from its mother, breathe or show any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or movement of voluntary muscle, whether or not the umbilical cord was cut or the placenta attached. (Section 338-1, Hawai'i Revised Statutes)  |
| Margin of Error (MOE) | A margin of error (MOE) is the difference between an estimate and its upper or lower confidence bounds. Confidence bounds can be created by adding the margin of error to the estimate (for the upper bound) and subtracting the margin of error from the estimate (for the lower bound). All published American Community Survey (ACS) margins of error are based on a 90-percent confidence level. (US Census Bureau, 2008).  |
| Medicaid              | Medicaid is a health care program that assists low-income families or individuals in paying for long-term medical and custodial-care costs. Medicaid is funded primarily by the federal government and operated by States. (US Department of Health and Human Services)   |
| MedQUEST              | The Med-QUEST program provides eligible low-income adults and children access to health and medical coverage through managed care plans. The QUEST program is designed to provide Quality care, Universal access, Efficient utilization, Stabilizing costs, and to Transform the way health care is provided to recipients. (Hawai'i State Department of Human Services)  |
| Own Child             | A never-married child under 18 years who is a son or daughter by birth, a stepchild, or an adopted child of the householder. (US Bureau of the Census)  |
| Part I Offenses       | Offenses which make up the Crime Index: murder, forcible rape, robbery, aggravated assault, burglary, larceny-theft, motor vehicle theft, and arson; plus the offense of manslaughter by negligence. (Hawai'i State, Department of the Attorney General) (US Federal Bureau of Investigation)   |
|                       |   |

| Part II Offenses                    | All criminal offenses not classified as Part I Offenses: other assault, curfew and loitering, disorderly conduct, driving under the influence, drug abuse violations, embezzlement, forgery and counterfeiting, fraud, gambling, liquor laws, offenses against the family and children, prostitution and commercialized vice, runaways, sex offenses, status offenses, suspicion, stolen property, vagrancy, vandalism, weapons offenses, etc. (Hawai'i State, Department of the Attorney General) (US Federal Bureau of Investigation)  |
|-------------------------------------|--|
| Poverty Status                      | The Census Bureau uses a set of dollar value thresholds that vary by family size and composition to determine who is in poverty. (US Bureau of the Census)   |
| Poverty Status of Households        | The data on poverty status of households were derived from answers to the income questions. Since poverty is defined at the family level and not the household level, the poverty status of the household is determined by the poverty status of the householder. Households are classified as poor when the total income of the householder's family is below the appropriate poverty threshold. (US Bureau of the Census)  |
| Prenatal Care (PNC)                 | Prenatal care (PNC) is preventive healthcare with the goal of providing regular check-ups that allow doctors or midwives to treat and prevent potential health problems throughout the course of the pregnancy while promoting healthy lifestyles that benefit both mother and child.  |
| Premature Births                    | Normally, a pregnancy lasts about 40 weeks. A premature birth or preterm birth is when a baby is born too early, before 37 weeks of pregnancy have been completed.  • Preterm birth less than 37 weeks gestation  • Late preterm birth 34-36 weeks gestation  • Early preterm birth 32-33 weeks gestation  • Very early preterm birth less than 32 weeks gestation   |
| Race Alone                          | People who responded to the question on race by indicating only one race are referred to as the race alone population, or the group who reported only one race. (US Bureau of the Census)  |
| Race alone or in any<br>Combination | The concept "race alone or in any combination" applies only to detailed race groups, such as American Indian and Alaska Native tribes, detailed Asian groups, and detailed Native Hawaiian and Other Pacific Islander groups. For example, Korean alone or in any combination includes people who reported a single response (e.g., Korean), people who reported Korean and another Asian group (e.g., Korean and Vietnamese), and people who reported Korean in combination with one or more other non-Asian race groups (e.g., White, Black or African American, American Indian and Alaska Native, Native Hawaiian and Other Pacific Islander, or Some Other Race). (US Bureau of the Census) |
| Related Child                       | Any child under 18 years old who is related to the householder by birth, marriage, or adoption. Related children of the householder include ever-married as well as never-married children. Children, by definition, exclude persons under 18 years who maintain households or are spouses or unmarried partners of householders. (US Bureau of the Census)  |
| Risk factor                         | An aspect of personal behavior or lifestyle, an environmental exposure, or an inborn or inherited characteristic that is associated with an increased occurrence of disease or other health-related event or condition.  |
| Social Determinants of Health (SDH) | The social determinants of health are the circumstances in which people are born, grow up, live, work, and age, as well as the systems put in place to deal with illness. These circumstances are in turn shaped by a wider set of forces: economics, social policies, and politics. (UN, World Health Organization)   |
| Unemployment Rate                   | The unemployment rate represents the number of unemployed people as a percentage of the civilian labor force. (US Bureau of the Census)  |

Women, Infants, and Children (WIC)

WIC is a Federal funded program operated by States to provide supplemental foods, health care referrals, and nutrition education for low-income pregnant, breastfeeding, and non-breastfeeding postpartum women, and to infants and children up to age five who are found to be at nutritional risk. (US Department of Health and Human Services) (Hawai'i State Department of Human Services)



OHA Research Disclaimer: The data presented have been vetted for accuracy; however, there is no warranty that it is error-free. The data itself does not represent or confer any legal rights of any kind.

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