

# **CENTRAL WASHINGTON HOSPITAL**

## **Community Health Needs Assessment**

### **Data Appendix**

**Prepared by Community Choice Healthcare Network**  
**12/1/2013**

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# CENTRAL WASHINGTON HOSPITAL COMMUNITY HEALTH NEEDS ASSESSMENT

## Health Data Appendix

### DEMOGRAPHICS

**Report Area:** Chelan County; Douglas County; Grant County; Okanogan County, Washington

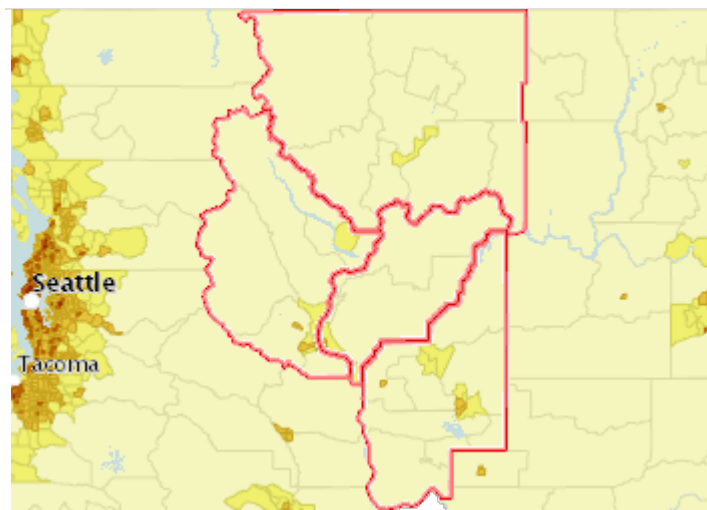
#### Total Population

This indicator reports the total number of people in a specific geographic area. This indicator is relevant because population counts are necessary to quantify the community as defined.

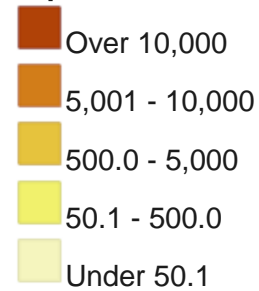
Report Area	Total Population	Total Land Area (Square Miles)	Population Density (Per Square Mile)
Total 4 Counties	233,535	12,687.28	18.41
Chelan County	70,995	2,920.53	24.31
Douglas County	37,160	1,819.26	20.43
Grant County	85,142	2,679.51	31.78
Okanogan County	40,238	5,267.98	7.64

Report Area	Total Population	Total Land Area (Square Miles)	Population Density (Per Square Mile)
Washington	6,561,297	66,455.50	98.73
United States	303,965,271	3,531,905.50	86.06

Data Source: [U.S. Census Bureau, 2006-2010 American Community Survey 5-Year Estimates](#). Source geography: Tract.



**Population Density (Per Sq. Mi.), By Tract, U.S. Census 2010**



## Total Population Age 65 or Older

This indicator reports the percentage of seniors aged 65 and older in a specific geographic area. This indicator is relevant because it is important to understand the percentage of seniors in the community, as this population has unique health needs which should be considered separately from other age groups.

Report Area	Total Population	Total Population (Age 65 )	Percent Population (Age 65 )
Report Area	233,535	32,212	13.79%
Chelan County	70,995	10,785	15.19%
Douglas County	37,160	4,930	13.27%
Grant County	85,142	9,996	11.74%
Okanogan County	40,238	6,501	16.16%
Washington	6,561,297	780,577	11.90%
United States	303,965,280	38,749,416	12.75%

Data Source: [U.S. Census Bureau, 2006-2010 American Community Survey 5-Year Estimates](#). Source geography: Tract.

## Median Age

This indicator reports the median age according to the 2010 Census population estimate. This indicator is relevant because the age demographics of a population indicate the potential for age-specific conditions and a demand for related services.

Report Area	Total Population	Median Age
Report Area	233,535	no data
Chelan County	70,995	39.70
Douglas County	37,160	36.60
Grant County	85,142	32.20
Okanogan County	40,238	42.20
Washington	6,561,297	37
United States	303,965,280	36.90

Data Source: [U.S. Census Bureau, 2006-2010 American Community Survey 5-Year Estimates](#). Source geography: Tract.

## Change in Total Population

This indicator reports the percent difference in population counts from the 2000 Census population estimate to the 2010 Census population estimate. This indicator is relevant because a positive or negative shift in total population over time impacts healthcare providers and the utilization of community resources.

Report Area	Total Population, 2010 Census	Total Population, 2000 Census	Percent Change from 2000- 2010 Census
Report Area	241,124	213,481	12.95%
Chelan County	72,453	66,616	8.76%
Douglas County	38,431	32,603	17.88%
Grant County	89,120	74,698	19.31%
Okanogan County	41,120	39,564	3.93%
Washington	6,724,540	5,894,121	14.09%
United States	308,745,538	281,421,906	9.71%

*Note: No breakout data available.*

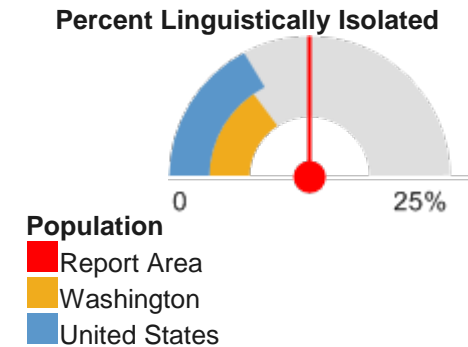
*Data Source: [U.S. Census Bureau, 2000 Census of Population and Housing, Summary File 1](#); [U.S. Census Bureau, 2010 Census of Population and Housing, Summary File 1](#). Source geography: County.*



## Linguistically Isolated Population

This indicator reports the percentage of the population aged 5 and older who speak a language other than English at home and speak English less than "very well." This indicator is relevant because an inability to speak English well creates barriers to healthcare access, provider communications, and health literacy/education.

Report Area	Total Population (For Whom Linguistic Isolation is Determined)	Total Linguistically Isolated Population	Percent Linguistically Isolated Population
Report Area	215,850	26,933	12.48%
Chelan County	66,240	6,910	10.43%
Douglas County	34,535	4,293	12.43%
Grant County	77,490	13,257	17.11%
Okanogan County	37,585	2,473	6.58%
Washington	6,134,847	482,388	7.86%
United States	283,833,856	24,704,752	8.70%

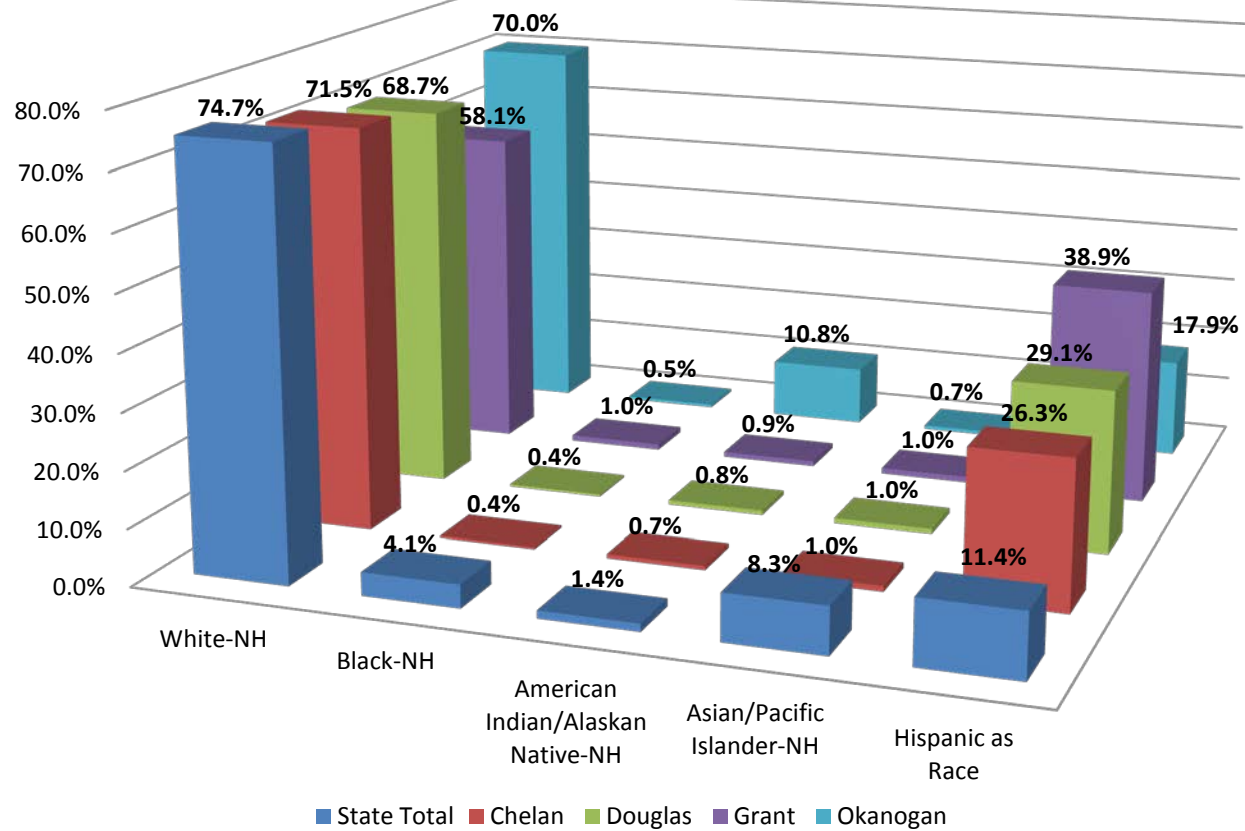


*Note: This indicator is compared with the state average.*

*Data Source: [U.S. Census Bureau, 2006-2010 American Community Survey 5-Year Estimates](#). Source geography: Tract.*

# Population Percentage by Race 2011

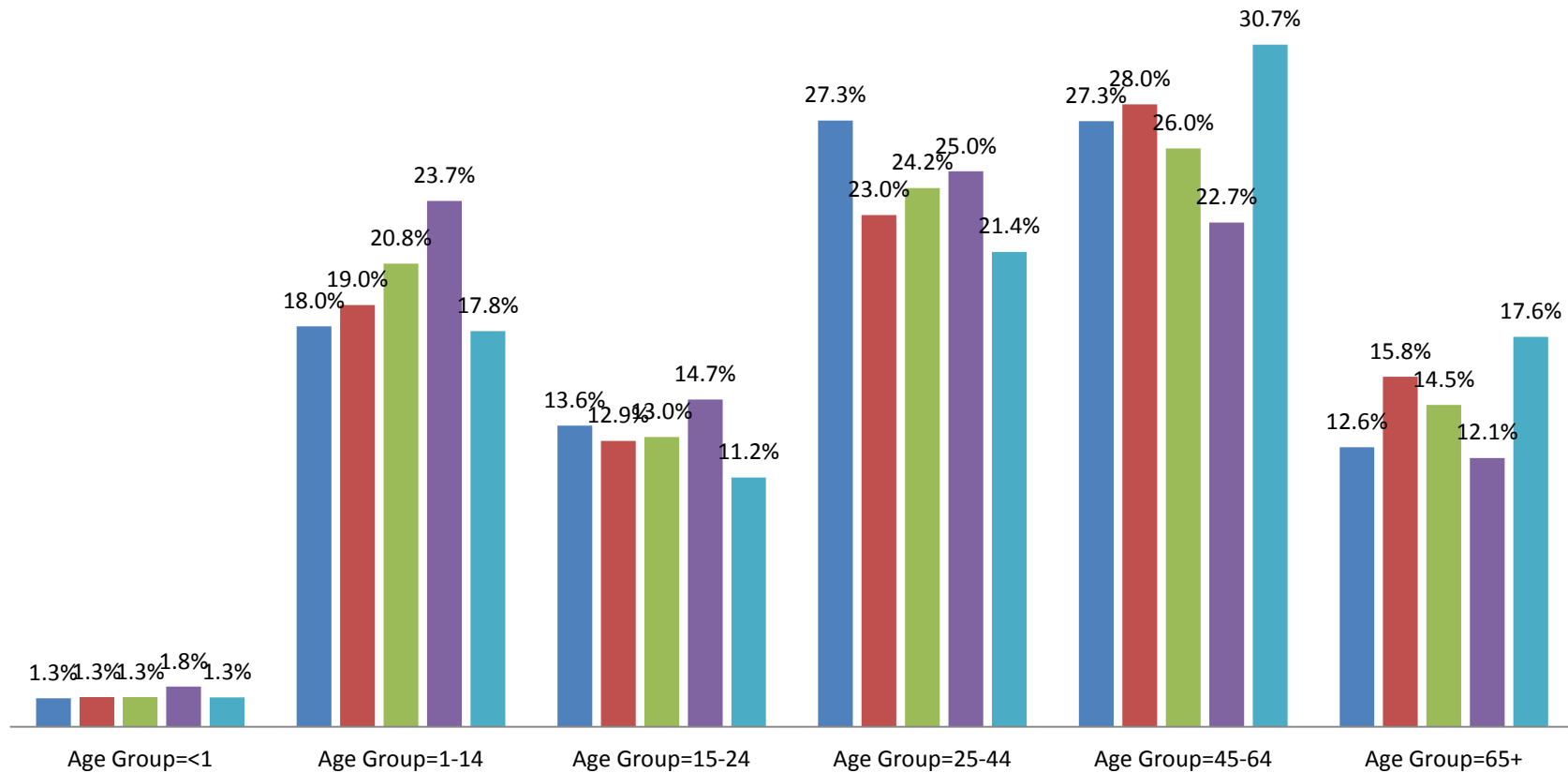
Source: WSDOH CHAT



## Population by Age 2011

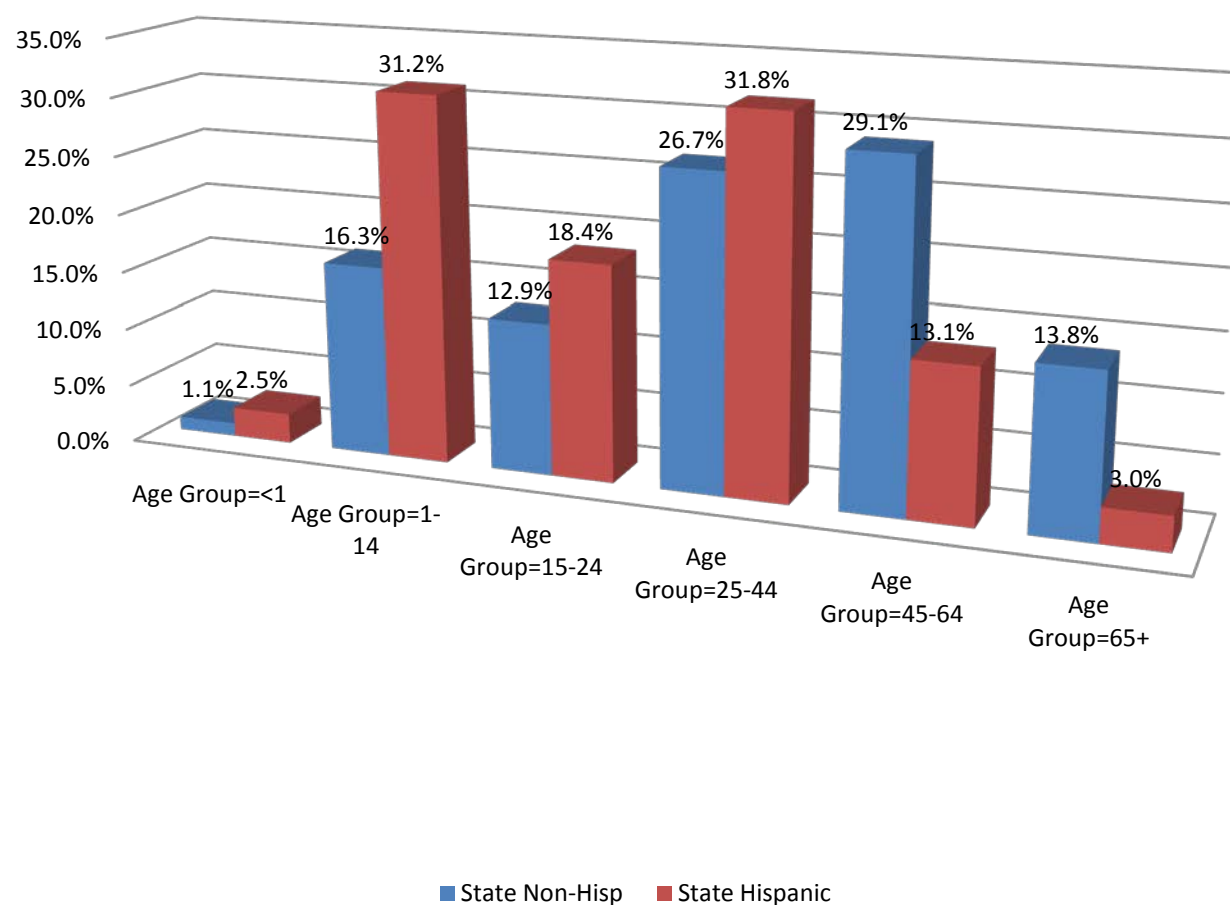
Source: WSDOH CHAT

■ State Total ■ Chelan ■ Douglas ■ Grant ■ Okanogan



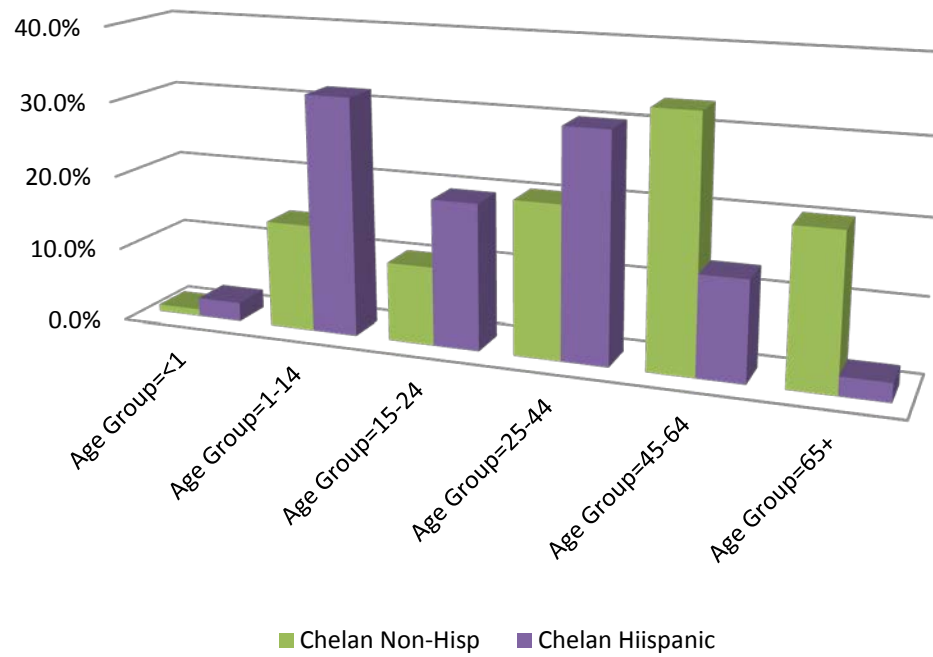
## Age Distribution - Hispanic and NonHispanic, Statewide 2011

Source: WSDOH CHAT



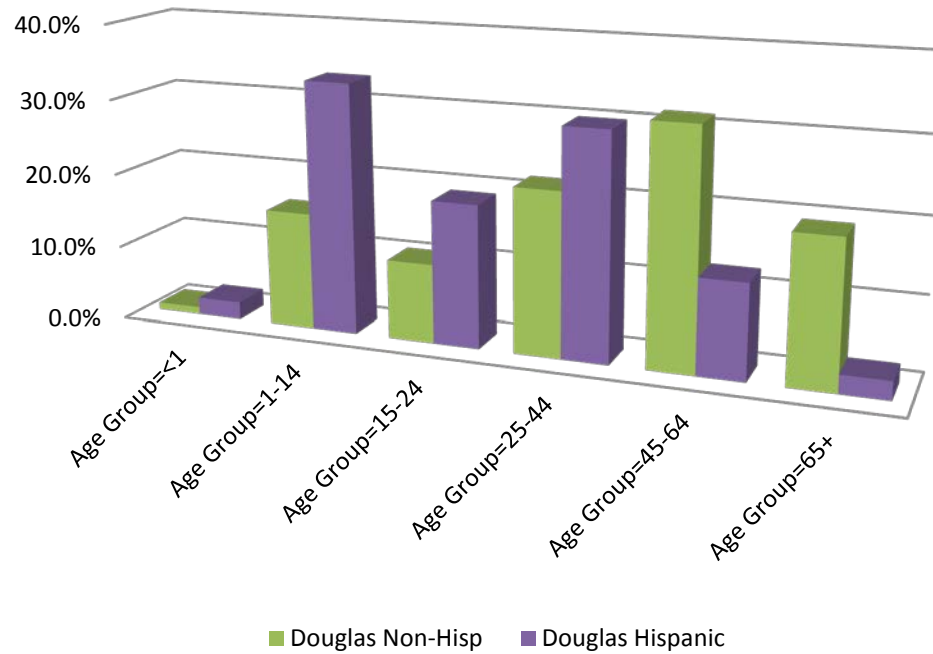
## Age Distribution - Hispanic and NonHispanic, Chelan County 2011

Source: WSDOH CHAT



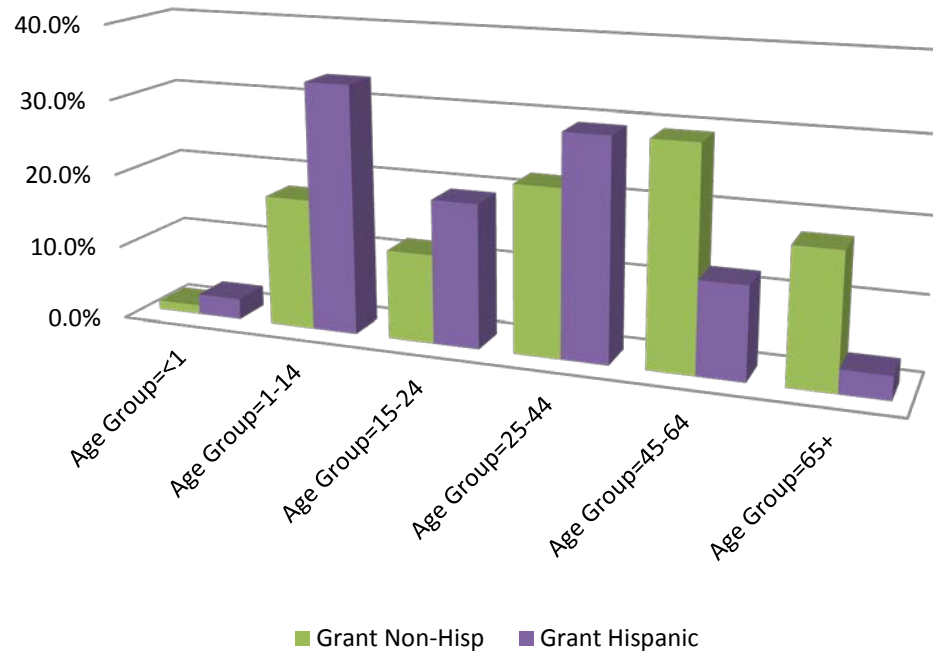
## Age Distribution - Hispanic and NonHispanic, Douglas County 2011

Source: WSDOH CHAT



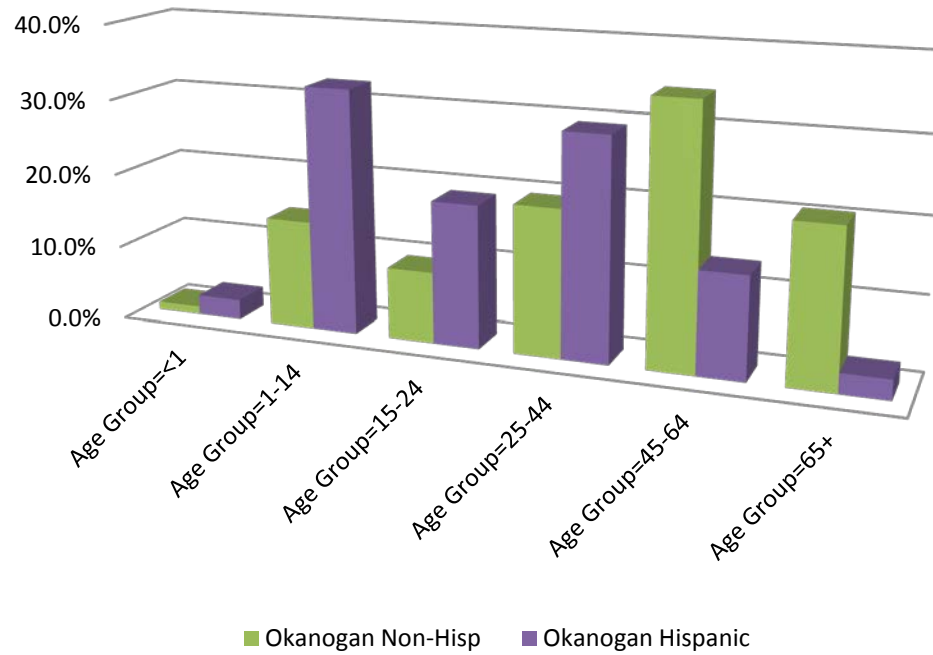
## Age Distribution - Hispanic and NonHispanic, Grant County 2011

Source: WSDOH CHAT



## Age Distribution - Hispanic and NonHispanic, Okanogan County 2011

Source: WSDOH CHAT





## SOCIAL & ECONOMIC FACTORS

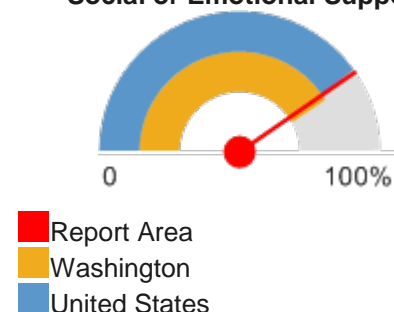
Economic and social insecurity often are associated with poor health. Poverty, unemployment, and lack of educational achievement affect access to care and a community's ability to engage in healthy behaviors. Without a network of support and a safe community, families cannot thrive. Ensuring access to social and economic resources provides a foundation for a healthy community.

### Adequate Social or Emotional Support

This indicator reports the percentage of adults aged 18 and older who self-report receiving sufficient social and emotional support all or most of the time. This indicator is relevant because social and emotional support is critical for navigating the challenges of daily life as well as for good mental health. Social and emotional support is also linked to educational achievement and economic stability.

Report Area	Population (Age 18 )	Adults Reporting Adequate Social or Emotional Support	Percent Adults Reporting Adequate Social or Emotional Support
Report Area	11,665	9,417	<b>80.73%</b>
Chelan County	3,282	2,701	<b>82.30%</b>
Douglas County	2,999	2,438	<b>81.30%</b>
Grant County	2,235	1,759	<b>78.70%</b>
Okanogan County	3,149	2,519	<b>80%</b>
Washington	156,092	129,556	83.00%
United States	2,744,636	2,204,749	80.33%

**Percent Adults Reporting Adequate Social or Emotional Support**



*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2006-2010](#). Source geography: County.*

## Poverty Rate (< 100% FPL)

Poverty is considered a *key driver* of health status.

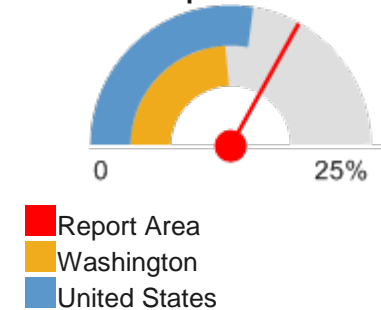
This indicator reports the percentage of the population living below 100% of the Federal Poverty Level (FPL). This indicator is relevant because poverty creates barriers to access including health services, healthy food, and other necessities that contribute to poor health status.

Report Area	Total Population (For Whom Poverty Status is Determined)	Total Population in Poverty	Percent Population in Poverty
Report Area	230,793	38,217	16.56%
Chelan County	70,156	8,046	11.47%
Douglas County	36,921	5,270	14.27%
Grant County	83,907	17,120	20.40%
Okanogan County	39,809	7,781	19.55%
Washington	6,430,231	780,009	12.13%
United States	296,141,152	40,917,512	13.82%

Note: This indicator is compared with the state average.

Data Source: [U.S. Census Bureau, 2006-2010 American Community Survey 5-Year Estimates](#). Source geography: Tract.

Percent Population in Poverty



### Population in Poverty, Total by Gender

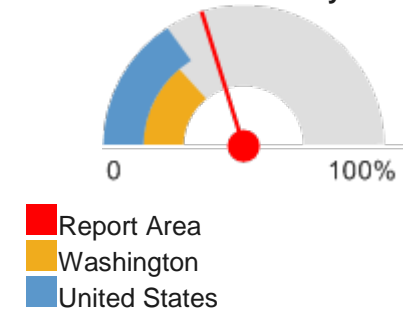
Report Area	Male	Female	Percent Male	Percent Female	Percent of Males in Poverty	Percent of Females in Poverty
Report Area	17,659	20,558	46.21%	53.79%	15.29%	17.83%
Chelan County	3,534	4,512	43.92%	56.08%	10.24%	12.66%
Douglas County	2,617	2,653	49.66%	50.34%	14.27%	14.28%
Grant County	7,867	9,253	45.95%	54.05%	18.45%	22.42%
Okanogan County	3,641	4,140	46.79%	53.21%	18.20%	20.90%
Washington	352,433	427,576	45.18%	54.82%	11.05%	13.19%
United States	18,063,626	22,853,888	44.15%	55.85%	12.48%	15.10%

## Population Below 200% of Poverty Level

This indicator reports the percentage of the population living under 200% of the Federal Poverty Level (FPL). This indicator is relevant because poverty creates barriers to access including health services, healthy food, and other necessities that contribute to poor health status.

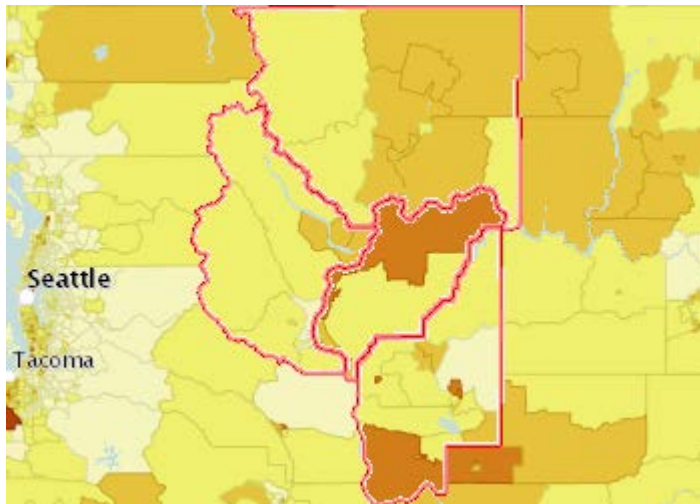
Report Area	Total Population (For Whom Poverty Status is Determined)	Population with Income Below 200% Poverty Level	Percent Population with Income Below 200% Poverty Level
Report Area	230,793	93,432	40.48%
Chelan County	70,156	23,183	33.04%
Douglas County	36,921	14,763	39.99%
Grant County	83,907	38,037	45.33%
Okanogan County	39,809	17,449	43.83%
Washington	6,430,231	1,805,493	28.08%
United States	296,141,152	94,693,416	31.98%

Percent Population with Income  
Below 200% Poverty Level

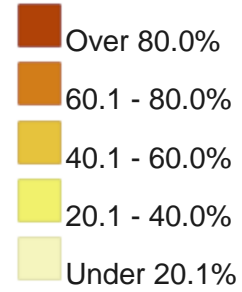


Note: This indicator is compared with the state average. No breakout data available.

Data Source: [U.S. Census Bureau, 2006-2010 American Community Survey 5-Year Estimates](#). Source geography: Tract.



**Percentage of Total Population, By Tract, ACS 2006-2010 5-Year Estimate**

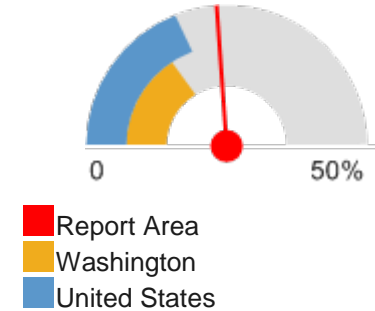


## Children in Poverty

This indicator reports the percentage of children aged 0-17 living under 100% of the Federal Poverty Level (FPL). This indicator is relevant because poverty creates barriers to access including health services, healthy food, and other necessities that contribute to poor health status.

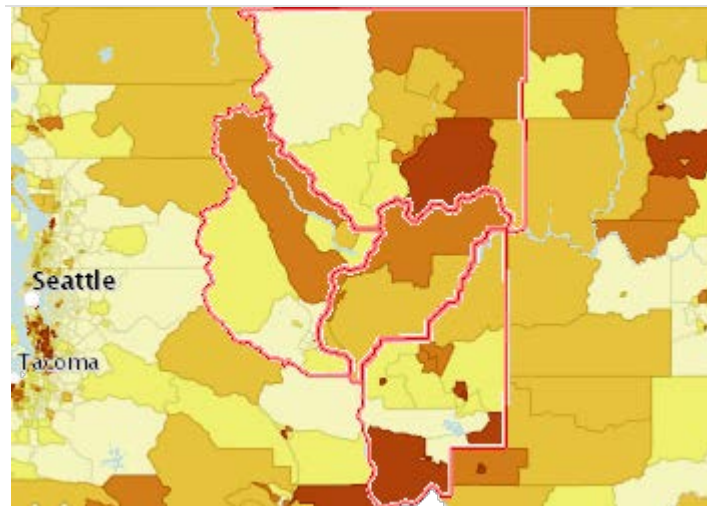
Report Area	Total Population (For Whom Poverty Status is Determined)	Children in Poverty	Percent Children in Poverty
Report Area	62,654	15,007	<b>23.95%</b>
Chelan County	17,723	2,977	<b>16.80%</b>
Douglas County	10,048	2,211	<b>22%</b>
Grant County	25,566	7,271	<b>28.44%</b>
Okanogan County	9,317	2,548	<b>27.35%</b>
Washington	1,534,092	244,930	15.97%
United States	72,850,296	13,980,497	19.19%

Percent Children in Poverty

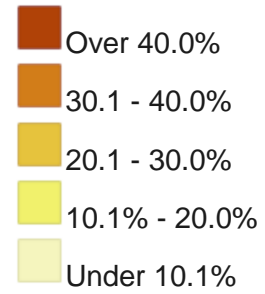


Note: This indicator is compared with the state average.

Data Source: [U.S. Census Bureau, 2006-2010 American Community Survey 5-Year Estimates](#). Source geography: Tract.



**Percentage of Children (Age 0-17), by Tract, ACS 2006-2010 5-Year Estimate**



**Children in Poverty (Below 100% of FPL), Percent by Ethnicity Alone**

Report Area	Hispanic / Latino	Non-Hispanic / Latino
Report Area	58.88%	41.12%
Chelan County	54.35%	45.65%
Douglas County	65.26%	34.74%
Grant County	68.78%	31.22%
Okanogan County	30.38%	69.62%
Washington	34.54%	65.46%
United States	33.52%	66.48%

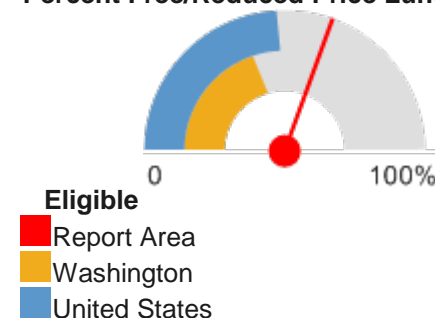


## Free and Reduced Price School Lunch Eligibility

This indicator reports the percentage of public school students eligible for free or reduced price lunches. This indicator is relevant because it assesses vulnerable populations which are more likely to have multiple health access, health status, and social support needs. Additionally, when combined with poverty data, providers can use this measure to identify gaps in eligibility and enrollment.

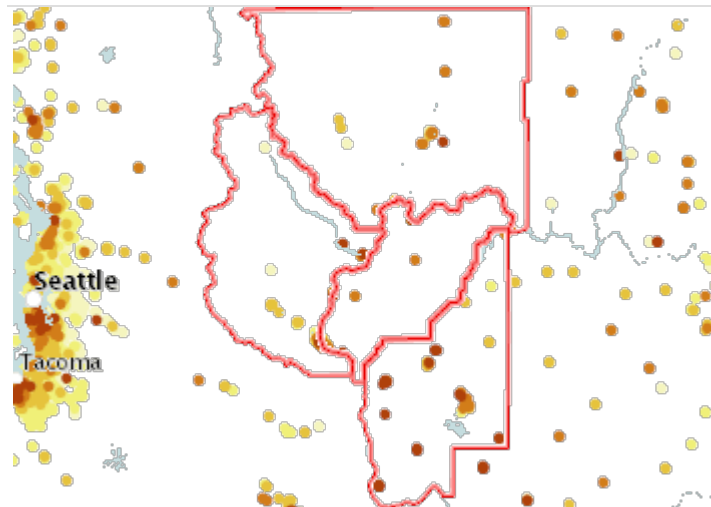
Report Area	Total Student Enrollment	Number Free/Reduced Price Lunch Eligible	Percent Free/Reduced Price Lunch Eligible
Report Area	46,074	28,229	<b>61.27%</b>
Chelan County	12,779	7,236	<b>56.62%</b>
Douglas County	6,936	3,801	<b>54.80%</b>
Grant County	18,753	13,158	<b>70.16%</b>
Okanogan County	7,606	4,034	<b>53.04%</b>
Washington	1,045,265	419,896	40.17%
United States	49,692,766	24,021,069	48.34%

Percent Free/Reduced Price Lunch



Note: This indicator is compared with the state average. No breakout data available.

Data Source: [U.S. Department of Education, National Center for Education Statistics \(NCES\), Common Core of Data, Public School Universe File, 2010-2011](#). Source geography: Address.



**Percentage of Students Eligible for Free or Reduced Price Lunch, by School, NCES 2010-2011**

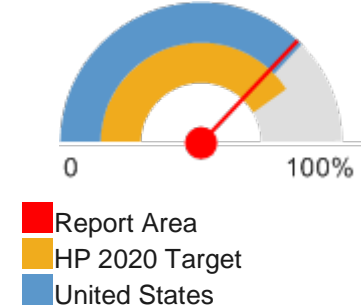
- Over 80.0%
- 60.1 - 80.0%
- 40.1 - 60.0%
- 20.1 - 40.0%
- Under 20.1%
- Not Reported

## High School Graduation Rate

This indicator reports the average freshman graduate rate, which measures the percentage of students receiving their high school diploma within four years. This indicator is relevant because low levels of education are often linked to poverty and poor health.

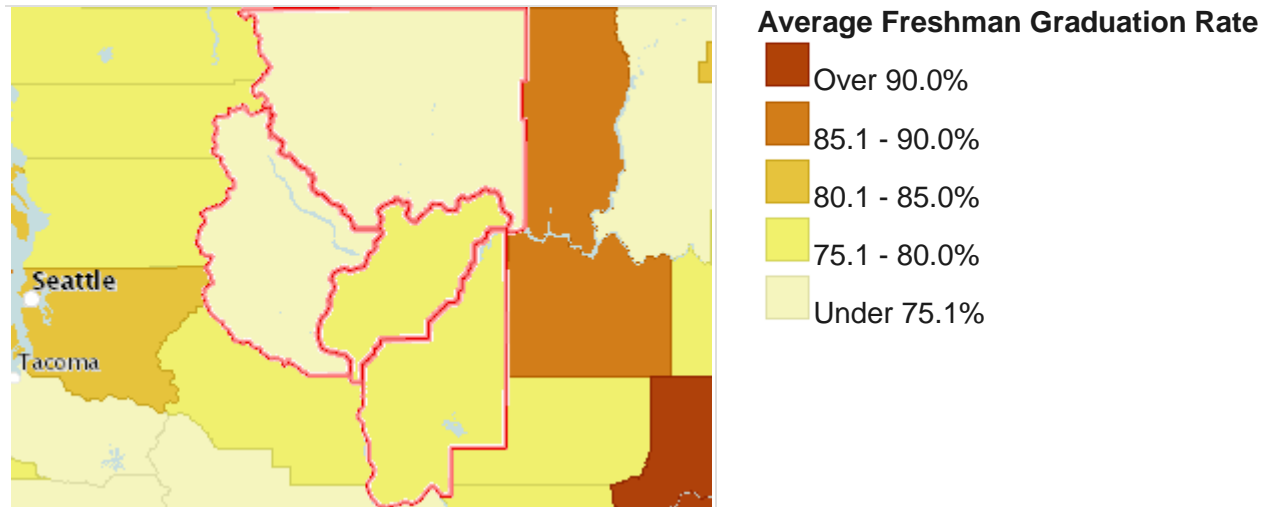
Report Area	Average Freshman Base Enrollment	Estimated Number of Diplomas Issued	On-Time Graduation Rate
Report Area	3,264	2,418	<b>74.10</b>
Chelan County	1,021	734	<b>71.90</b>
Douglas County	536	428	<b>79.80</b>
Grant County	1,322	1,006	<b>76.10</b>
Okanogan County	384	250	<b>65</b>
Washington	85,123	62,764	<b>73.70</b>
United States	4,024,345	3,039,015	<b>75.50</b>
<u>HP 2020 Target</u>			>82.4

On-Time Graduation Rate



Note: This indicator is compared with the Healthy People 2020 Target. No breakout data available.

Data Source: [The University of Wisconsin, Population Health Institute, County Health Rankings, 2012](#) and the [U.S. Department of Education, National Center for Education Statistics \(NCES\), Common Core of Data, Public School Universe Survey Data, 2005-06, 2006-07 and 2007-08](#). Source geography: County.



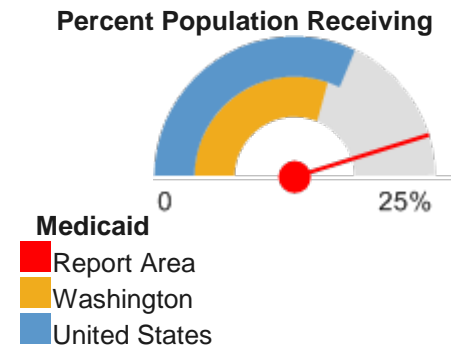
## Population Receiving Medicaid

This indicator reports the percentage of the population that is enrolled in Medicaid. This indicator is relevant because it assesses vulnerable populations which are more likely to have multiple health access, health status, and social support needs; when combined with poverty data, providers can use this measure to identify gaps in eligibility and enrollment.

Report Area	Population (for Whom Insurance Status is Determined)	Population Receiving Medicaid	Percent Population Receiving Medicaid
Report Area	237,728	53,311	<b>22.57%</b>
Chelan County	71,742	14,072	<b>19.72%</b>
Douglas County	37,913	8,083	<b>21.40%</b>
Grant County	87,343	22,506	<b>26%</b>
Okanogan County	40,730	8,650	<b>21.32%</b>
Washington	6,546,049	1,002,231	15.31%
United States	301,501,760	48,541,096	16.10%

*Note: This indicator is compared with the state average.*

*Data Source: [U.S. Census Bureau, 2008-2010 American Community Survey 3-Year Estimates](#). Source geography: PUMA.*



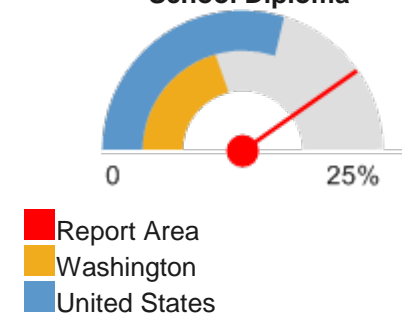
## Population with No High School Diploma

Educational attainment is considered a *key driver* of health status.

This indicator reports the percentage of the population aged 25 and older without a high school diploma (or equivalency) or higher. This indicator is relevant because low levels of education are often linked to poverty and poor health.

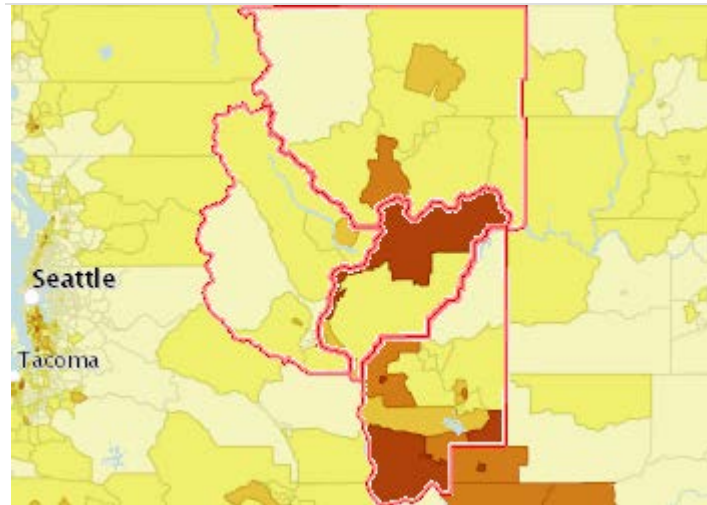
Report Area	Total Population (For Whom Educational Attainment is Determined)	Population with No High School Diploma	Percent Population with No High School Diploma
Report Area	148,900	30,011	<b>20.16%</b>
Chelan County	46,916	7,946	<b>16.94%</b>
Douglas County	23,820	4,942	<b>20.75%</b>
Grant County	50,568	12,651	<b>25.02%</b>
Okanogan County	27,596	4,472	<b>16.21%</b>
Washington	4,360,316	454,534	10.42%
United States	199,726,656	29,898,482	14.97%

**Percent Population with No High School Diploma**

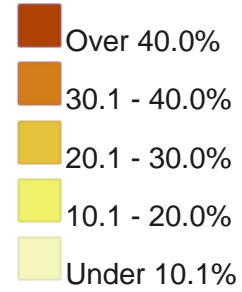


*Note: This indicator is compared with the state average.*

*Data Source: [U.S. Census Bureau, 2006-2010 American Community Survey 5-Year Estimates](#). Source geography: Tract.*



**Percentage of Total Population (Age 25 ), By Tract, ACS 2006-2010 5-Year Estimate**



### Population with No High School Diploma, Total by Ethnicity Alone

Report Area	Hispanic / Latino	Non-Hispanic / Latino
Report Area	17,725	12,286
Chelan County	4,634	3,312
Douglas County	2,969	1,973
Grant County	8,438	4,213
Okanogan County	1,684	2,788
Washington	135,600	318,934
United States	9,834,425	20,064,057

### Population with No High School Diploma, Percent by Ethnicity Alone

Report Area	Hispanic / Latino	Non-Hispanic / Latino
Report Area	59.06%	40.94%
Chelan County	58.32%	41.68%
Douglas County	60.08%	39.92%
Grant County	66.70%	33.30%
Okanogan County	37.66%	62.34%
Washington	29.83%	70.17%
United States	32.89%	67.11%

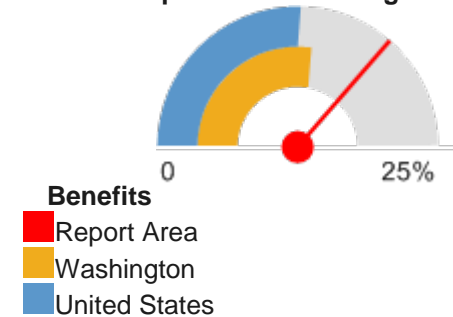


## Supplemental Nutrition Assistance Program (SNAP) Recipients

This indicator reports the average percentage of the population receiving the Supplemental Nutrition Assistance Program (SNAP) benefits from the months of July 2008 to July 2009. This indicator is relevant because it assesses vulnerable populations which are more likely to have multiple health access, health status, and social support needs; when combined with poverty data, providers can use this measure to identify gaps in eligibility and enrollment.

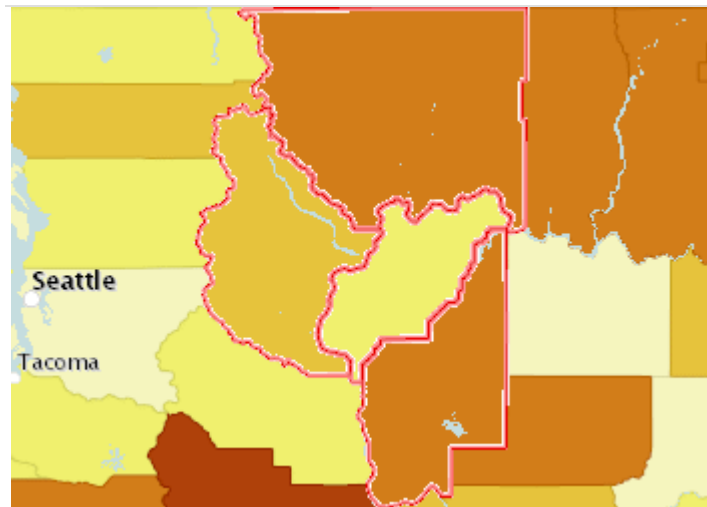
Report Area	Total Estimated Population, 2009	Total Population Receiving SNAP Benefits	Percent Population Receiving SNAP Benefits
Report Area	238,587	43,260	18.13%
Chelan County	72,372	11,334	15.66%
Douglas County	37,565	4,192	11.16%
Grant County	88,098	18,714	21.24%
Okanogan County	40,552	9,020	22.24%
Washington	6,664,195	912,894	13.70%
United States	307,006,550	38,701,176	12.60%

**Percent Population Receiving SNAP**

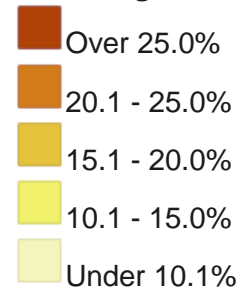


*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [U.S. Census Bureau, Small Area Income and Poverty Estimates \(SAIPE\), 2009](#). Source geography: County.*



**Percentage of Total Population, By County, SAIPE 2009**

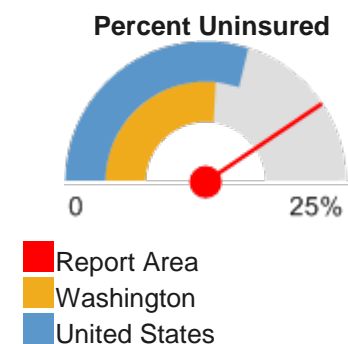


## Uninsured Population

The lack of health insurance is considered a *key driver* of health status.

This indicator reports the percentage of the total civilian non-institutionalized population without health insurance coverage. This indicator is relevant because lack of insurance is a primary barrier to healthcare access including regular primary care, specialty care, and other health services that contributes to poor health status.

Report Area	Total Population (For Whom Insurance Status is Determined)	Number Uninsured	Percent Uninsured
Report Area	236,225	48,071	<b>20.35%</b>
Chelan County	71,344	14,129	<b>19.80%</b>
Douglas County	37,765	6,708	<b>17.76%</b>
Grant County	86,550	17,822	<b>20.59%</b>
Okanogan County	40,566	9,412	<b>23.20%</b>
Washington	6,546,049	876,684	13.39%
United States	301,501,760	45,368,296	15.05%



*Note: This indicator is compared with the state average.*

*Data Source: [U.S. Census Bureau, 2008-2010 American Community Survey 3-Year Estimates](#). Source geography: PUMA.*

## PHYSICAL ENVIRONMENT

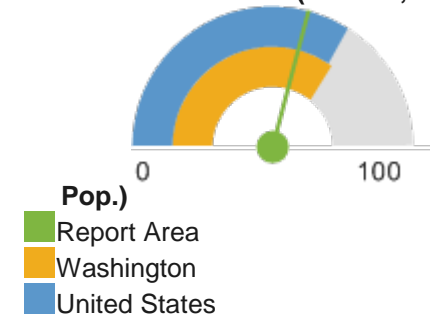
A community's health also is affected by the physical environment. A safe, clean environment that provides access to healthy food and recreational opportunities is important to maintaining and improving community health.

### Fast Food Restaurant Access

This indicator reports the number of fast food restaurants per 100,000 population. Fast food restaurants are defined as limited-service establishments primarily engaged in providing food services (except snack and nonalcoholic beverage bars) where patrons generally order or select items and pay before eating. This indicator is relevant because it provides a measure of healthy food access and environmental influences on dietary behaviors.

Report Area	Total Population, 2010 Census	Number of Establishments	Establishment Rate (Per 100,000 Pop.)
Report Area	241,124	141	58.48
Chelan County	72,453	57	78.67
Douglas County	38,431	14	36.43
Grant County	89,120	50	56.10
Okanogan County	41,120	20	48.64
Washington	6,724,540	4,744	70.55
United States	312,471,327	213,453	68.31

Establishment Rate (Per 100,000



Note: This indicator is compared with the state average. No breakout data available.

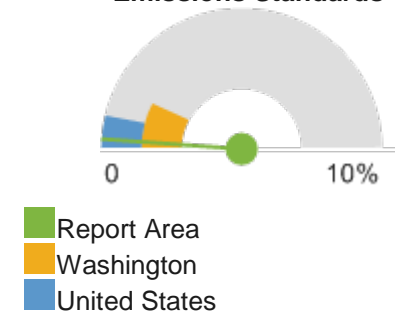
Data Source: [U.S. Census Bureau, County Business Patterns, 2010](#). Source geography: County.

## Poor Air Quality (Ozone)

This indicator reports the percentage of days per year with Ozone (O<sub>3</sub>) levels above the National Ambient Air Quality Standard of 75 parts per billion (ppb). Figures are calculated using data collected by monitoring stations and modeled to include census tracts where no monitoring stations exist. This indicator is relevant because poor air quality contributes to respiratory issues and overall poor health.

Report Area	Average Daily Ozone Concentration	Number of Days Exceeding Emissions Standards	Percentage of Days Exceeding Emissions Standards
Report Area	20.45	0.78	0.21%
Chelan County	20.01	1	0.23%
Douglas County	20.45	1	0.15%
Grant County	21.81	1	0.23%
Okanogan County	18.91	1	0.20%
Washington	20.76	5.64	1.54%
United States	24.82	2.92	0.80%

Percentage of Days Exceeding Emissions Standards



Note: This indicator is compared with the state average. No breakout data available.

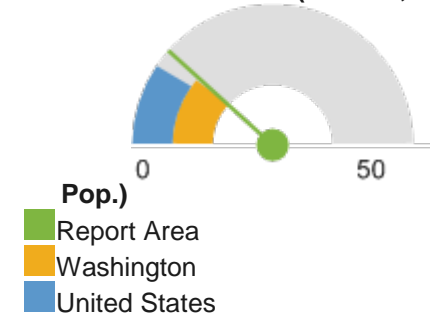
Data Source: [Centers for Disease Control and Prevention, National Environmental Public Health Tracking Network, 2008](#). Source geography: Tract.

## Recreation and Fitness Facility Access

This indicator reports the number per 100,000 population of recreation and fitness facilities as defined by North American Industry Classification System (NAICS) Code 713940. This indicator is relevant because access to recreation and fitness facilities encourages physical activity and other healthy behaviors.

Report Area	Total Population, 2010 Census	Number of Establishments	Establishment Rate (Per 100,000 Pop.)
Report Area	241,124	28	11.61
Chelan County	72,453	16	22.08
Douglas County	38,431	2	5.20
Grant County	89,120	6	6.73
Okanogan County	41,120	4	9.73
Washington	6,724,540	772	11.48
United States	308,745,538	29,896	9.68

**Establishment Rate (Per 100,000**



*Note: This indicator is compared with the state average. No breakout data available.*

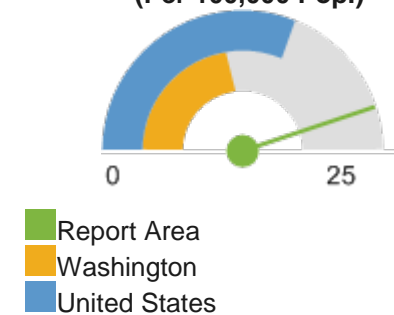
*Data Source: [U.S. Census Bureau, County Business Patterns, 2010](#). Source geography: County.*

## WIC-Authorized Food Store Access

This indicator reports the number of food stores and other retail establishments per 100,000 population that are authorized to accept WIC Program (Special Supplemental Nutrition Program for Women, Infants, and Children) benefits and that carry designated WIC foods and food categories. This indicator is relevant because it provides a measure of food security and healthy food access for women and children in poverty as well as environmental influences on dietary behaviors.

Report Area	Total Population (2011 Estimate)	Number WIC- Authorized Food Stores	WIC-Authorized Food Store Rate (Per 100,000 Pop.)
Report Area	245,124	55	22.40
Chelan County	73,477	13	17.69
Douglas County	38,971	8	20.53
Grant County	91,265	20	21.91
Okanogan County	41,411	14	33.81
Washington	6,849,103	776	11.30
United States	318,921,538	50,042	15.60

**WIC-Authorized Food Store Rate  
(Per 100,000 Pop.)**



*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [U.S. Department of Agriculture, Food Environment Atlas, 2012](#). Source geography: County.*

## CLINICAL CARE

A lack of access to care presents barriers to good health. The supply and accessibility of facilities and physicians, the rate of uninsurance, financial hardship, transportation barriers, cultural competency, and coverage limitations affect access.

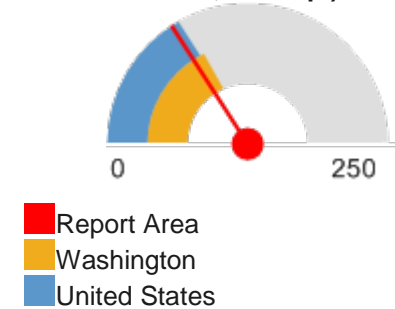
Rates of morbidity, mortality, and emergency hospitalizations can be reduced if community residents access services such as health screenings, routine tests, and vaccinations. Prevention indicators can call attention to a lack of access or knowledge regarding one or more health issues and can inform program interventions.

### Access to Primary Care

This indicator reports the number of primary care physicians per 100,000 population. This indicator is relevant because a shortage of health professionals contributes to access and health status issues.

Report Area	Total Population	Total Primary Care Providers	Primary Care Provider Rate (Per 100,000 Pop.)
Report Area	241,124	191	79.20
Chelan County	72,453	85	117.31
Douglas County	38,431	16	41.63
Grant County	89,120	46	51.61
Okanogan County	41,120	44	107
Washington	6,724,540	6,066	90.20
United States	312,471,327	264,897	84.70

Primary Care Provider Rate (Per 100,000 Pop.)



Note: This indicator is compared with the state average. No breakout data available.

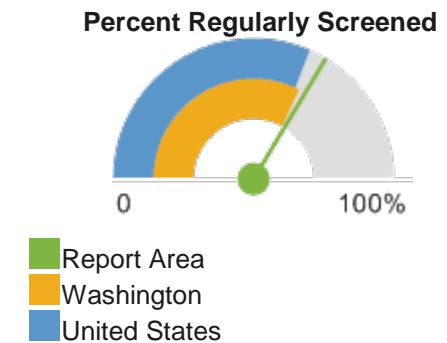
Data Source: [U.S. Health Resources and Services Administration Area Resource File, 2011](#). Source geography: County.



## Breast Cancer Screening (Mammogram)

This indicator reports the percentage of female Medicare enrollees, age 55 or older, who have received one or more mammograms in the past two years. This indicator is relevant because engaging in preventive behaviors allows for early detection and treatment of health problems. This indicator can also highlight a lack of access to preventive care, a lack of health knowledge, insufficient provider outreach, and/or social barriers preventing utilization of services.

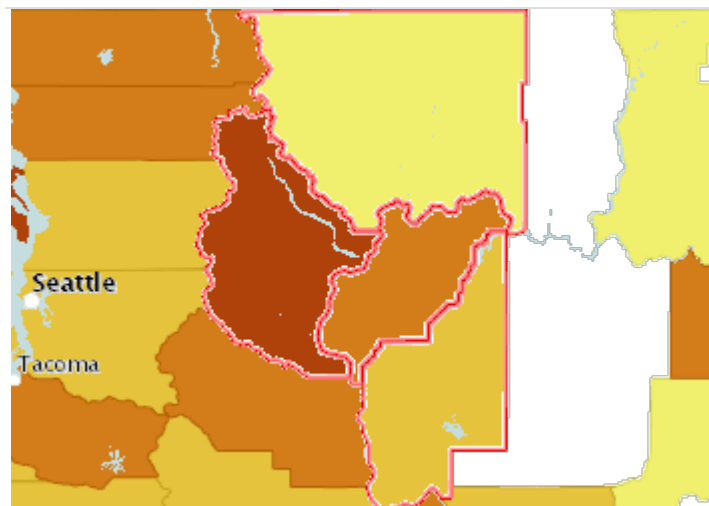
Report Area	Total Female Medicare Enrollees	Number Regularly Screened	Percent Regularly Screened
Report Area	2,055	1,382	67.25%
Chelan County	700	535	76.43%
Douglas County	265	189	71.32%
Grant County	616	375	60.88%
Okanogan County	474	283	59.70%
Washington	40,509	26,448	65.29%
United States	4,203,461	2,660,626	63.30%



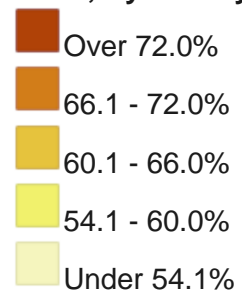
*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [Dartmouth Atlas of Healthcare, Selected Measures of Primary Care Access and Quality, 2003-2007](#).*

*Source geography: County.*



**Percentage of Medicare Patients (Female) with Mammogram, Past 2 Years, By County, Dartmouth Atlas 2003-2007**

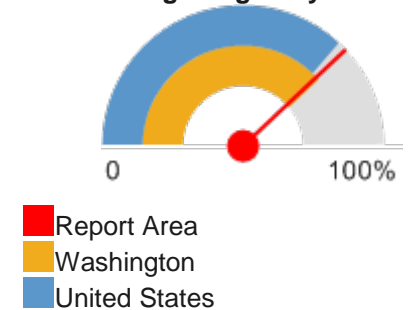


## Cervical Cancer Screening (Pap Test)

This indicator reports the percentage of women aged 18 and older who self-report that they have had a Pap test in the past three years. This indicator is relevant because engaging in preventive behaviors allows for early detection and treatment of health problems. This indicator can also highlight a lack of access to preventive care, a lack of health knowledge, insufficient provider outreach, and/or social barriers preventing utilization of services.

Report Area	Total Population (Women Age 18 )	Est. Population Regularly Screened	Percentage Regularly Screened
Report Area	82,990	63,018	<b>75.93%</b>
Chelan County	26,594	20,477	<b>77%</b>
Douglas County	13,331	10,212	<b>76.60%</b>
Grant County	27,940	20,955	<b>75%</b>
Okanogan County	15,125	11,374	<b>75.20%</b>
Washington	2,486,594	1,921,431	77.27%
United States	116,709,909	86,326,160	73.97%

**Percentage Regularly Screened**



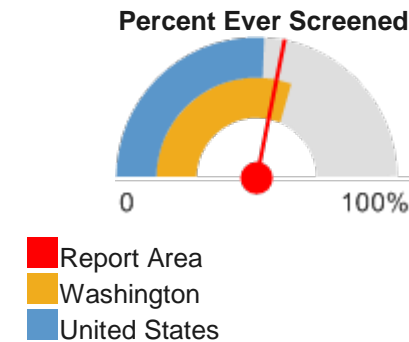
*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2004-2010](#). Source geography: County.*

## Colon Cancer Screening (Sigmoid/Colonoscopy)

This indicator reports the percentage of adult men aged 50 and older who self-report that they have ever had a sigmoidoscopy or colonoscopy. This indicator is relevant because engaging in preventive behaviors allows for early detection and treatment of health problems. This indicator can also highlight a lack of access to preventive care, a lack of health knowledge, insufficient provider outreach, and/or social barriers preventing utilization of services.

Report Area	Total Population (Men Aged 50 )	Number Ever Screened	Percent Ever Screened
Report Area	36,400	20,476	<b>56.25%</b>
Chelan County	11,965	7,131	<b>59.60%</b>
Douglas County	5,556	3,222	<b>57.99%</b>
Grant County	11,324	6,149	<b>54.30%</b>
Okanogan County	7,555	3,974	<b>52.60%</b>
Washington	3,672,818	2,269,729	61.80%
United States	119,567,203	61,919,221	51.79%



*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2004-2010](#). Source geography: County.*

## Dental Care Utilization (Adult)

This indicator reports the percentage of adults aged 18 and older who self-report that they have not visited a dentist, dental hygienist or dental clinic within the past year. This indicator is relevant because engaging in preventive behaviors decreases the likelihood of developing future health problems. This indicator can also highlight a lack of access to preventive care, a lack of health knowledge, insufficient provider outreach, and/or social barriers preventing utilization of services.

Report Area	Total Population (Age 18 )	Number Adults with No Dental Exam	Percent Adults with No Dental Exam
Report Area	169,842	62,824	36.99%
Chelan County	53,020	18,732	35.33%
Douglas County	26,980	8,709	32.28%
Grant County	59,156	22,799	38.54%
Okanogan County	30,686	12,584	41.01%
Washington	5,000,516	1,383,143	27.66%
United States	232,747,222	70,151,188.94	30.14%

Percent Adults with No Dental Exam



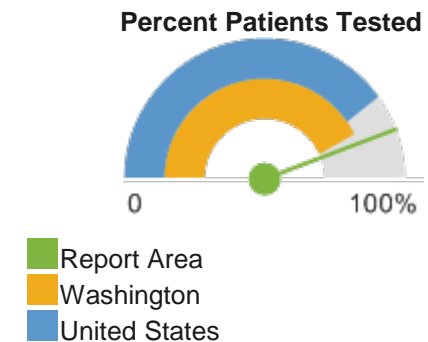
Note: This indicator is compared with the state average. No breakout data available.

Data Source: [Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2006-2010](#). Source geography: County.

## Diabetes Management (Hemoglobin A1c Test)

This indicator reports the percentage of diabetic Medicare patients who have had a hemoglobin A1c (hA1c) test, a blood test which measures blood sugar levels, administered by a health care professional in the past year. This indicator is relevant because engaging in preventive behaviors allows for early detection and treatment of health problems. This indicator can also highlight a lack of access to preventive care, a lack of health knowledge, insufficient provider outreach, and/or social barriers preventing utilization of services.

Report Area	Total Medicare Enrollees (Age 65-75) with Diabetes	Number Patients Tested	Percent Patients Tested
Report Area	2,240	1,985	88.62%
Chelan County	671	595	88.67%
Douglas County	307	278	90.55%
Grant County	760	668	87.89%
Okanogan County	502	444	88.45%
Washington	43,710	37,447	85.67%
United States	5,408,188	4,343,573	80.31%



*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [Dartmouth Atlas of Healthcare, Selected Measures of Primary Care Access and Quality, 2003-2007](#). Source geography: County.*

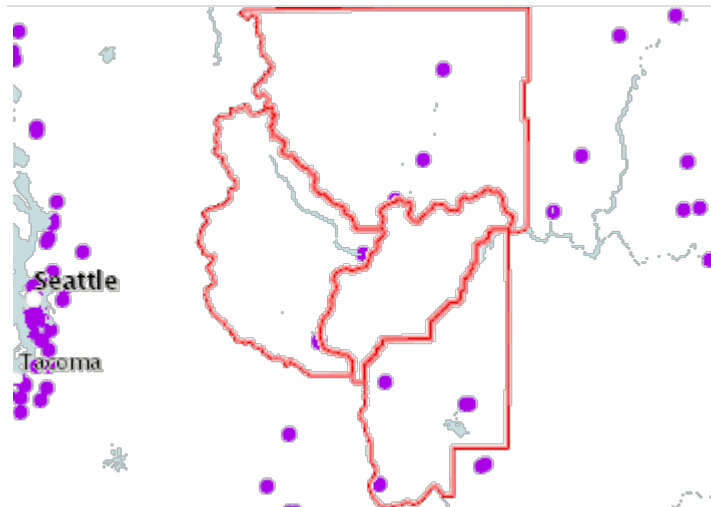
## Federally Qualified Health Centers

This indicator reports the number of Federally Qualified Health Centers (FQHCs) in the community. This indicator is relevant because FQHCs are community assets that provide health care to vulnerable populations; they receive extra funding from the federal government to promote access to ambulatory care in areas designated as medically underserved.

Report Area	Number of Federally Qualified Health Centers
Report Area	10
Chelan County	3
Douglas County	0
Grant County	4
Okanogan County	3
Washington	131
United States	5,459

*Note: No breakout data available.*

*Data Source: [U.S. Health Resources and Services Administration, Centers for Medicare & Medicaid Services, Provider of Service File, 2011](#). Source geography: Address.*



● Federally Qualified Health Centers

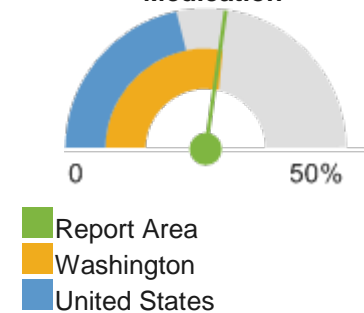


## High Blood Pressure Management

This indicator reports the percentage of adults aged 18 and older who self-report that they are not taking medication for their high blood pressure. This indicator is relevant because engaging in preventive behaviors decreases the likelihood of developing future health problems. When considered with other indicators of poor health, this indicator can also highlight a lack of access to preventive care, a lack of health knowledge, insufficient provider outreach, and/or social barriers preventing utilization of services.

Report Area	Total Population (Age 18 )	Number Adults Not Taking Blood Pressure Medication (When Needed)	Percent Adults Not Taking Medication
Report Area	169,842	46,184	27.19%
Chelan County	53,020	12,497	23.57%
Douglas County	26,980	6,866	25.45%
Grant County	59,156	17,492	29.57%
Okanogan County	30,686	9,329	30.40%
Washington	5,000,516	1,400,645	28.01%
United States	232,747,222	50,606,335.52	21.74%

Percent Adults Not Taking Medication



Note: This indicator is compared with the state average. No breakout data available.

Data Source: [Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2006-2010.](#)

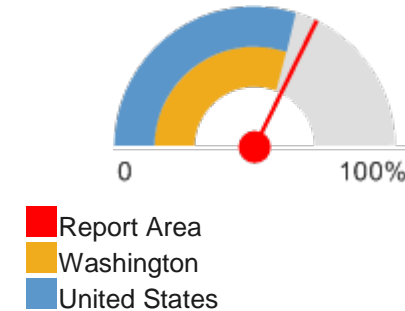
Source geography: County.

## HIV Screenings

This indicator reports the percentage of teens and adults age 12-70 who self-report that they have never been screened for HIV. This indicator is relevant because engaging in preventive behaviors allows for early detection and treatment of health problems. This indicator can also highlight a lack of access to preventive care, a lack of health knowledge, insufficient provider outreach, and/or social barriers preventing utilization of services.

Report Area	Total Population (Age 18 )	Number Adults Never Screened	Percent Adults Never Screened
Report Area	169,842	109,339	64.38%
Chelan County	53,020	33,673	63.51%
Douglas County	26,980	17,855	66.18%
Grant County	59,156	39,351	66.52%
Okanogan County	30,686	18,461	60.16%
Washington	5,000,516	3,036,813	60.73%
United States	232,747,222	139,253,113.51	59.83%

Percent Adults Never Screened



*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2006-2010](#). Source geography: County.*

## Lack of a Consistent Source of Primary Care

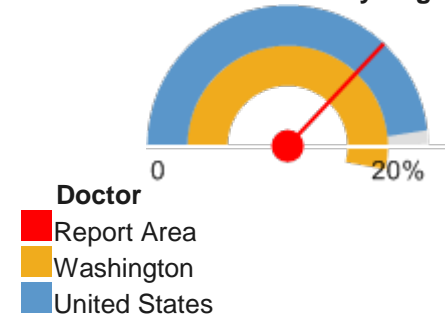
This indicator reports the percentage of adults aged 18 and older who self-report that they do not have at least one person who they think of as their personal doctor or health care provider. This indicator is relevant because access to regular primary care is important to preventing major health issues and emergency department visits.

Report Area	Total Population (Age 18 )	Number Adults Without Any Regular Doctor	Percent Adults Without Any Regular Doctor
Report Area	169,842	42,887	<b>25.25%</b>
Chelan County	53,020	12,279	<b>23.16%</b>
Douglas County	26,980	6,265	<b>23.22%</b>
Grant County	59,156	15,972	<b>27%</b>
Okanogan County	30,686	8,371	<b>27.28%</b>
Washington	5,000,516	1,078,611	21.57%
United States	232,747,222	44,961,851.44	19.32%

*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2006-2010](#). Source geography: County.*

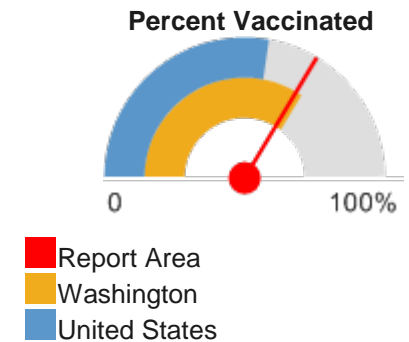
**Percent Adults Without Any Regular**



## Pneumonia Vaccinations (Age 65 )

This indicator reports the percentage of adults aged 65 and older who self-report that they have ever received a pneumonia vaccine. This indicator is relevant because engaging in preventive behaviors decreases the likelihood of developing future health problems. This indicator can also highlight a lack of access to preventive care, a lack of health knowledge, insufficient provider outreach, and/or social barriers preventing utilization of services.

Report Area	Total Population (Adults Aged 65 )	Number Vaccinated	Percent Vaccinated
Report Area	31,461	21,092.79	<b>67.04%</b>
Chelan County	10,707	7,098.74	<b>66.30%</b>
Douglas County	4,748	3,375.83	<b>71.10%</b>
Grant County	9,631	6,366.09	<b>66.10%</b>
Okanogan County	6,375	4,252.13	<b>66.70%</b>
Washington	760,085	529,650	69.68%
United States	37,999,225	21,156,717	55.68%



*Note: This indicator is compared with the state average. No breakout data available.*

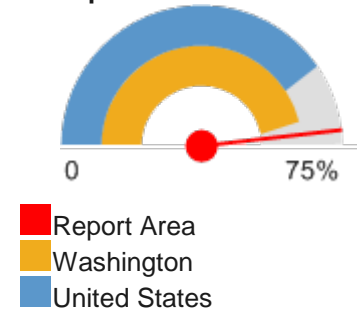
*Data Source: [Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2004-2010](#). Source geography: County.*

## Population Living in a Health Professional Shortage Areas

This indicator reports the percentage of the population that is living in a geographic area designated as a "Health Professional Shortage Area" (HPSA), defined as having a shortage of primary medical care, dental or mental health professionals. This indicator is relevant because a shortage of health professionals contributes to access and health status issues.

Report Area	Total Population, 2010 Census	HPSA Designation Population	Underserved Population	Percent of Designated Population Underserved
Report Area	241,124	120,903.18	94,103.32	77.83%
Chelan County	72,453	24,109.99	20,058.88	83.20%
Douglas County	38,431	12,788.57	10,639.75	83.20%
Grant County	89,120	57,246.90	48,933.10	85.48%
Okanogan County	41,120	26,757.72	14,471.59	54.08%
Washington	6,745,752	1,199,964.98	834,968.77	69.58%
United States	312,676,557	52,826,822.65	32,117,352.05	60.80%

Percent of Designated Population Underserved



Note: This indicator is compared with the state average. No breakout data available.

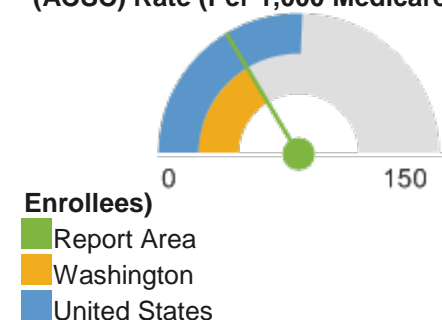
Data Source: [U.S. Health Resources and Services Administration, Health Professional Shortage Area File, 2012](#). Source geography: HPSA.

## Preventable Hospital Events

This indicator reports the discharge rate (per 1,000 hospital admissions) for conditions that are ambulatory care sensitive (those admissions which could have been prevented if adequate primary care resources were available and accessed by those patients). This indicator is relevant because analysis of ACS discharges allows demonstrating a possible “return on investment” from interventions that reduce admissions (for example, for uninsured or Medicaid patients) through better access to primary care resources.

Report Area	Total Medicare Enrollees (Age 65-75)	Preventable Hospital Admissions (ACSCs)	Preventable Hospital Admission (ACSC) Rate (Per 1,000 Medicare Enrollees)
Report Area	25,255	1,233	48.82
Chelan County	8,739	418	47.83
Douglas County	3,504	158	45.09
Grant County	7,796	407	52.21
Okanogan County	5,216	250	47.93
Washington	512,968	25,174	49.08
United States	53,239,865	4,053,740	76.14

**Preventable Hospital Admission (ACSC) Rate (Per 1,000 Medicare**



*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [Dartmouth Atlas of Healthcare, Selected Measures of Primary Care Access and Quality, 2003-2007.](#)*

*Source geography: County.*

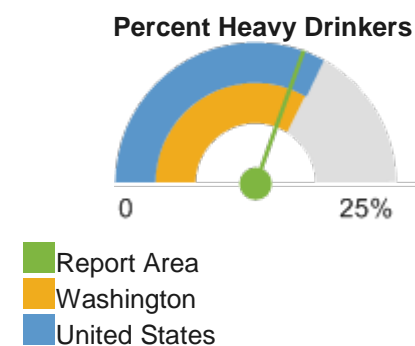
## HEALTH BEHAVIORS

Health behaviors such as poor diet, a lack of exercise, and substance abuse contribute to poor health status.

### Heavy Alcohol Consumption

This indicator reports the percentage of adults aged 18 and older who self-report heavy alcohol consumption (defined as more than two drinks per day for men and one drink per day for women). This indicator is relevant because current behaviors are determinants of future health and this indicator may illustrate a cause of significant health issues, such as cirrhosis, cancers, and untreated mental and behavioral health needs.

Report Area	Total Population (Age 18 )	Number Heavy Drinkers	Percent Heavy Drinkers
Report Area	166,193	25,343.01	15.25%
Chelan County	52,580	8,255.06	15.70%
Douglas County	26,099	4,019.25	15.40%
Grant County	57,596	7,833.06	13.60%
Okanogan County	29,918	5,235.65	17.50%
Washington	1,716,677	286,685	16.70%
United States	111,821,887	18,576,867	16.61%



Note: This indicator is compared with the state average. No breakout data available.

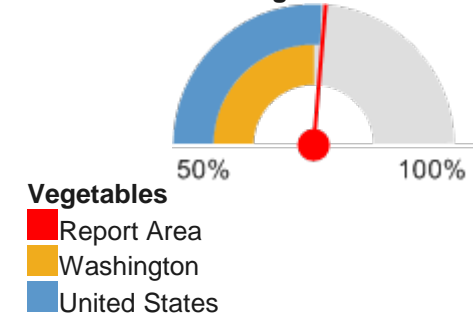
Data Source: [Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2004-2010](#). Source geography: County.

## Inadequate Fruit/Vegetable Consumption (Adult)

This indicator reports the percentage of adults aged 18 and older who self-report consuming less than 5 servings of fruits and vegetables each day. This indicator is relevant because current behaviors are determinants of future health, and because unhealthy eating habits may illustrate a cause of significant health issues, such as obesity and diabetes.

Report Area	Total Population (Age 18 )	Population Consuming Few Fruits or Vegetables	Percent Consuming Few Fruits or Vegetables
Report Area	166,193	127,016.43	76.43%
Chelan County	52,580	39,750.48	75.60%
Douglas County	26,099	19,600.35	75.10%
Grant County	57,596	45,616.03	79.20%
Okanogan County	29,918	22,049.57	73.70%
Washington	1,716,677	1,289,224	75.10%
United States	111,821,887	84,891,309	75.92%

Percent Consuming Few Fruits or



*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2003-2009.](#)*

*Source geography: County.*

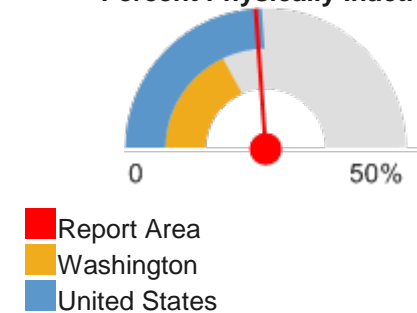


## Physical Inactivity (Adult)

This indicator reports the percentage of adults aged 18 and older who self-report no leisure time for activity, based on the question: "During the past month, other than your regular job, did you participate in any physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise?". This indicator is relevant because current behaviors are determinants of future health and this indicator may illustrate a cause of significant health issues, such as obesity and poor cardiovascular health.

Report Area	Total Population (Age 18 )	Number Physically Inactive	Percent Physically Inactive
Report Area	166,193	39,822.94	<b>23.96%</b>
Chelan County	52,580	11,304.70	<b>21.50%</b>
Douglas County	26,099	5,872.28	<b>22.50%</b>
Grant County	57,596	15,435.73	<b>26.80%</b>
Okanogan County	29,918	7,210.24	<b>24.10%</b>
Washington	1,716,677	312,435	18.20%
United States	111,821,887	27,579,949	24.66%

Percent Physically Inactive



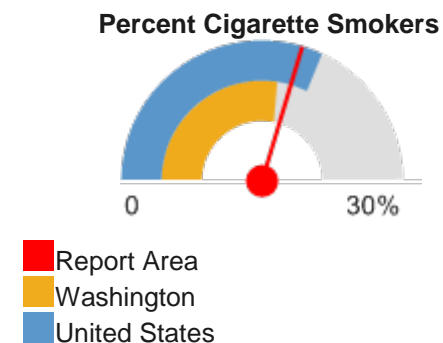
*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2004-2010](#). Source geography: County.*

## Tobacco Usage (Adult)

This indicator reports the percentage of adults aged 18 and older who self-report currently smoking cigarettes some days or every day. This indicator is relevant because tobacco use is linked to leading causes of death such as cancer and cardiovascular disease.

Report Area	Total Population (Age 18 )	Number Cigarette Smokers	Percent Cigarette Smokers
Report Area	166,193	29,529	17.77%
Chelan County	52,580	7,992	15.20%
Douglas County	26,099	4,489	17.20%
Grant County	57,596	10,137	17.60%
Okanogan County	29,918	6,911	23.10%
Washington	1,716,677	284,968	16.60%
United States	111,821,887	21,551,350	19.27%



*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2004-2010](#). Source geography: County.*

## HEALTH OUTCOMES

Measuring morbidity and mortality rates allows assessing linkages between social determinants of health and outcomes. By comparing, for example, the prevalence of certain chronic diseases to indicators in other categories (e.g., poor diet and exercise) with outcomes (e.g., high rates of obesity and diabetes), various causal relationship may emerge, allowing a better understanding of how certain community health needs may be addressed.

**Top 10 Causes of Death 2007-2011, Age Adjusted Rates**

Source: WA DOH Community Health Assessment Tool

	<b>Chelan Top 10 Causes</b>	<b>Age Adjusted Deaths Per 100K Population</b>	<b>Douglas Top 10 Causes</b>	<b>Age Adjusted Deaths Per 100K Population</b>	<b>Grant Top 10 Causes</b>	<b>Age Adjusted Deaths Per 100K Population</b>	<b>Okanogan Top 10 Causes</b>	<b>Age Adjusted Deaths Per 100K Population</b>	<b>State Top 10 Causes</b>	<b>Age Adjusted Deaths Per 100K Population</b>
1	Major cardiovascular diseases	193.45	Major cardiovascular diseases	199.18	Major cardiovascular diseases	224.3	Major cardiovascular diseases	227.32	Major cardiovascular diseases	211.12
2	Malignant neoplasms	166.46	Malignant neoplasms	170.92	Malignant neoplasms	180.34	Malignant neoplasms	176.8	Malignant neoplasms	173.01
3	Alzheimer's disease	48.91	Alzheimer's disease	52.1	Chronic lower respiratory diseases	51.92	Accidents	60.09	Alzheimer's disease	44.02
4	Chronic lower respiratory diseases	42.35	Chronic lower respiratory diseases	41.38	Accidents	51.05	Chronic lower respiratory diseases	53.86	Chronic lower respiratory diseases	43.49
5	Accidents	40.86	Accidents	30.84	Alzheimer's disease	37.86	Alzheimer's disease	35.33	Accidents	38.82
6	Diabetes mellitus	19.77	Diabetes mellitus	24.03	Diabetes mellitus	30.73	Intentional self-harm (suicide)	24.8	Diabetes mellitus	22.84
7	Intentional self-harm (suicide)	13.78	Intentional self-harm (suicide)	13.96	Influenza and pneumonia	12.58	Diabetes mellitus	24.21	Intentional self-harm (suicide)	13.4
8	Chronic liver disease and cirrhosis	9.96	Chronic liver disease and cirrhosis	8.79	Intentional self-harm (suicide)	12.13	Chronic liver disease and cirrhosis	18.38	Influenza and pneumonia	10.48
9	Parkinson's disease	7.59	Influenza and pneumonia	7.47	Chronic liver disease and cirrhosis	11.74	Influenza and pneumonia	10.01	Chronic liver disease and cirrhosis	10
10	Influenza and pneumonia	6.63	Certain conditions originating in the perinatal period	5.96	Parkinson's disease	7.55	Parkinson's disease	8.14	Parkinson's disease	8.16

# Top 10 Hospitalization Diagnoses 2007-2011

Source: WA DOH Community Health Assessment Tool

		Age Adjusted Admissions Per 100K Population		Age Adjusted Admissions Per 100K Population		Age Adjusted Admissions Per 100K Population		Age Adjusted Admissions Per 100K Population		Age Adjusted Admissions Per 100K Population
	<b>Chelan Top 10 Dx</b>		<b>Douglas Top 10 Dx</b>		<b>Grant Top 10 Dx</b>		<b>Okanogan Top 10 Dx</b>		<b>State Top 10 Dx</b>	
1	Complications of pregnancy; childbirth; and the puerperium	2108.83	Complications of pregnancy; childbirth; and the puerperium	1947.5	Complications of pregnancy; childbirth; and the puerperium	2458.04	Complications of pregnancy; childbirth; and the puerperium	2345.42	Certain conditions originating in the perinatal period	1689.08
2	Certain conditions originating in the perinatal period	1858.04	Certain conditions originating in the perinatal period	1759.21	Certain conditions originating in the perinatal period	1829.97	Certain conditions originating in the perinatal period	1908.36	Complications of pregnancy; childbirth; and the puerperium	1666.63
3	Diseases of the circulatory system	1316.84	Diseases of the circulatory system	1382.05	Diseases of the circulatory system	1603.8	Diseases of the circulatory system	1510.62	Diseases of the circulatory system	1547.38
4	Diseases of the digestive system	933.63	Diseases of the digestive system	919.67	Diseases of the respiratory system	960.94	Injury and poisoning	1224.66	Diseases of the digestive system	1069.27
5	Injury and poisoning	931.81	Diseases of the musculoskeletal system and connective tissue	872.92	Injury and poisoning	960.32	Diseases of the digestive system	1168.69	Injury and poisoning	958.34
6	Diseases of the musculoskeletal system and connective tissue	928.26	Injury and poisoning	829.6	Diseases of the digestive system	915.14	Diseases of the respiratory system	1087.22	Diseases of the respiratory system	915.11
7	Diseases of the respiratory system	881.5	Diseases of the respiratory system	751.89	Diseases of the musculoskeletal system and connective	848.28	Diseases of the musculoskeletal system and connective	913.31	Diseases of the musculoskeletal system and connective	771.71

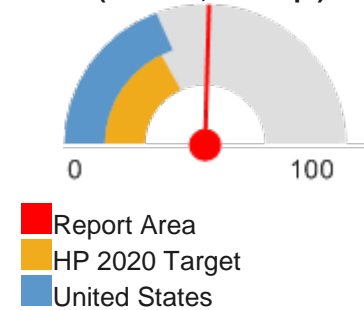
				tissue		tissue		tissue		
8	Neoplasms	562.54	Neoplasms	510.82	Diseases of the genitourinary system	562.12	Diseases of the genitourinary system	701.22	Neoplasms	565.28
9	Diseases of the genitourinary system	511.52	Diseases of the genitourinary system	461.75	Neoplasms	536.5	Neoplasms	624.7	Diseases of the genitourinary system	554.57
10	Endocrine; nutritional; and metabolic diseases and immunity disorders	350.51	Endocrine; nutritional; and metabolic diseases and immunity disorders	315.28	Endocrine; nutritional; and metabolic diseases and immunity disorders	331.69	Mental Illness	454.84	Mental Illness	530.18

## Accident Mortality

This indicator reports the rate of death due to unintentional injury (accident) per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for report areas from county level data, only where data is available. This indicator is relevant because accidents are a leading cause of death in the U.S.

Report Area	Total Population, 2006-2010 Average	Annual Deaths, 2006-2010 Average	Crude Death Rate (Per 100,000 Pop.)	Age-Adjusted Death Rate (Per 100,000 Pop.)
Report Area	233,295	121	51.87	<b>50.78</b>
Chelan County	70,939	33	47.08	<b>41.40</b>
Douglas County	37,129	14	38.78	<b>39.29</b>
Grant County	85,017	46	54.34	<b>56.88</b>
Okanogan County	40,210	27	67.15	<b>65.03</b>
Washington	6,557,307	2,670	40.71	<b>39.89</b>
United States	303,844,430	121,217	39.89	<b>39.07</b>
<u>HP 2020 Target</u>				<= 36.0

Age-Adjusted Death Rate  
(Per 100,000 Pop.)



Note: This indicator is compared with the Healthy People 2020 Target.

Data Source: [Centers for Disease Control and Prevention, National Center for Health Statistics, Underlying Cause of Death, 2006-2010](#). Accessed through [CDC WONDER](#). Source geography: County.

**Population by Gender, Accident Mortality, Age-Adjusted Rate (Per 100,000 Pop.)**

Report Area	Male	Female
Report Area	66.67	34.58
Chelan County	53.19	30.03
Douglas County	57.72	18.94
Grant County	72.39	41.68
Okanogan County	86.14	42.42
Washington	53.02	27.70
United States	53.82	25.53

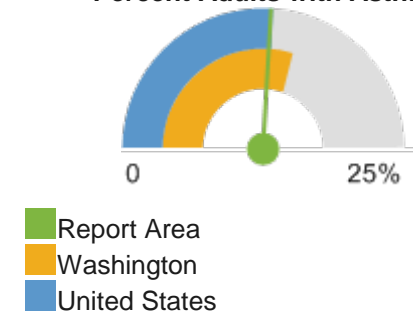


## Asthma Prevalence

This indicator reports the percentage of adults aged 18 and older who self-report that they have ever been told by a doctor, nurse, or other health professional that they had asthma. This indicator is relevant because asthma is a prevalent problem in the U.S. that is often exacerbated by poor environmental conditions.

Report Area	Total Population (Age 18 )	Number Adults with Asthma	Percent Adults with Asthma
Report Area	169,842	22,080	13.00%
Chelan County	53,020	6,813	12.85%
Douglas County	26,980	3,588	13.30%
Grant County	59,156	7,211	12.19%
Okanogan County	30,686	4,468	14.56%
Washington	5,000,516	749,577	14.99%
United States	232,747,222	30,473,296.44	13.09%

**Percent Adults with Asthma**



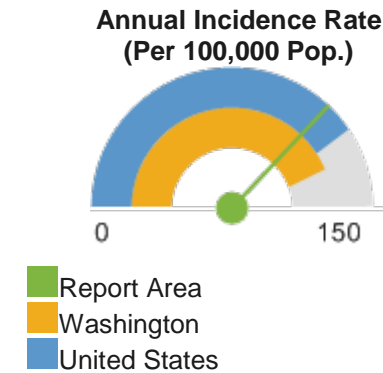
*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2006-2010](#). Source geography: County.*

## Breast Cancer Incidence

This indicator reports the age adjusted incidence rate (cases per 100,000 population per year) of females with breast cancer adjusted to 2000 U.S. standard population age groups (Under Age 1, 1-4, 5-9, ..., 80-84, 85 and older). This indicator is relevant because cancer is a leading cause of death and it is important to identify cancers separately to better target interventions.

Report Area	Total Population, ACS 2005-2009	Annual Incidence, 2005-2009 Average	Annual Incidence Rate (Per 100,000 Pop.)
Report Area	230,131	255	110.80
Chelan County	70,668	79	112.40
Douglas County	36,145	44	120.40
Grant County	83,612	92	109.70
Okanogan County	39,706	40	101.30
Washington	6,465,755	8,522	131.80
United States	301,461,536	367,783	122



*Note: This indicator is compared with the state average.*

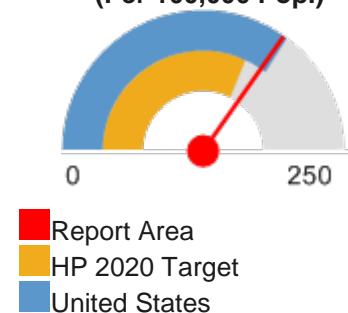
*Data Source: [The Centers for Disease Control and Prevention, and the National Cancer Institute: State Cancer Profiles, 2005-2009](#). Source geography: County.*

## Cancer Mortality

This indicator reports the rate of death due to malignant neoplasm (cancer) per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for report areas from county level data, only where data is available. This indicator is relevant because cancer is a leading cause of death in the United States.

Report Area	Total Population, 2006-2010 Average	Annual Deaths, 2006-2010 Average	Crude Death Rate (Per 100,000 Pop.)	Age-Adjusted Death Rate (Per 100,000 Pop.)
Report Area	233,295	450	192.89	<b>173.89</b>
Chelan County	70,939	142	199.89	<b>161.54</b>
Douglas County	37,129	72	192.84	<b>178.84</b>
Grant County	85,017	146	172.20	<b>181.97</b>
Okanogan County	40,210	90	224.32	<b>174.02</b>
Washington	6,557,307	11,607	177.01	<b>174.90</b>
United States	303,844,430	566,121	186.32	<b>176.66</b>
<u>HP 2020 Target</u>				<= 160.6

Age-Adjusted Death Rate  
(Per 100,000 Pop.)



Note: This indicator is compared with the Healthy People 2020 Target.

Data Source: [Centers for Disease Control and Prevention, National Center for Health Statistics, Underlying Cause of Death, 2006-2010](#). Accessed through [CDC WONDER](#). Source geography: County.

**Population by Gender, Cancer Mortality, Age-Adjusted Rate (Per 100,000 Pop.)**

Report Area	Male	Female
Report Area	210.89	144.82
Chelan County	187.37	141.05
Douglas County	223.79	142.63
Grant County	222.31	151.80
Okanogan County	215.68	139.02
Washington	206.71	152.22
United States	215.04	150.05

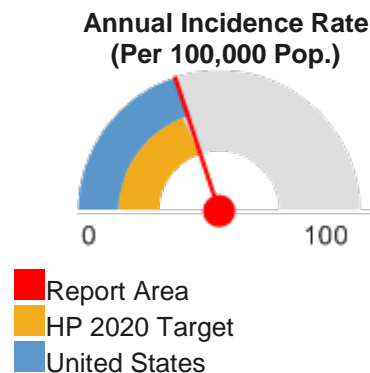
### Cervical Cancer Incidence

Cervical cancer incidence chart from CHAT to be added here by Kling.

## Colon and Rectum Cancer Incidence

This indicator reports the age adjusted incidence rate (cases per 100,000 population per year) of colon and rectum cancer adjusted to 2000 U.S. standard population age groups (Under age 1, 1-4, 5-9, ..., 80-84, 85 and older). This indicator is relevant because cancer is a leading cause of death and it is important to identify cancers separately to better target interventions.

Report Area	Total Population, ACS 2005-2009	Annual Incidence, 2005-2009 Average	Annual Incidence Rate (Per 100,000 Pop.)
Report Area	230,131	92	39.90
Chelan County	70,668	27	38.80
Douglas County	36,145	15	42.40
Grant County	83,612	33	39
Okanogan County	39,706	17	41.60
Washington	6,465,755	2,741	42.40
United States	301,461,536	121,188	40.20
<a href="#">HP 2020 Target</a>			<= 38.6

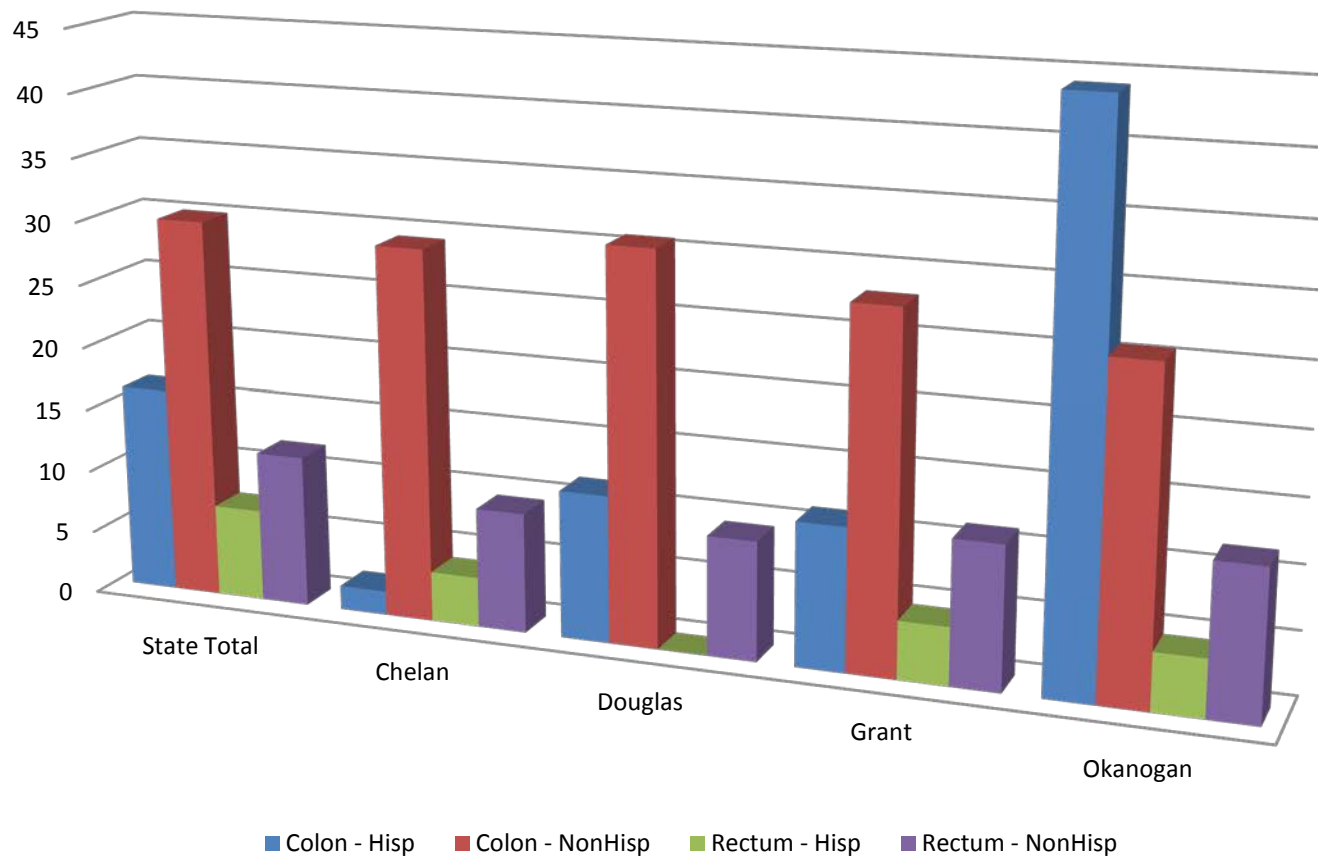


*Note: This indicator is compared with the Healthy People 2020 Target.*

*Data Source: [The Centers for Disease Control and Prevention, and the National Cancer Institute: State Cancer Profiles, 2005-2009](#). Source geography: County.*

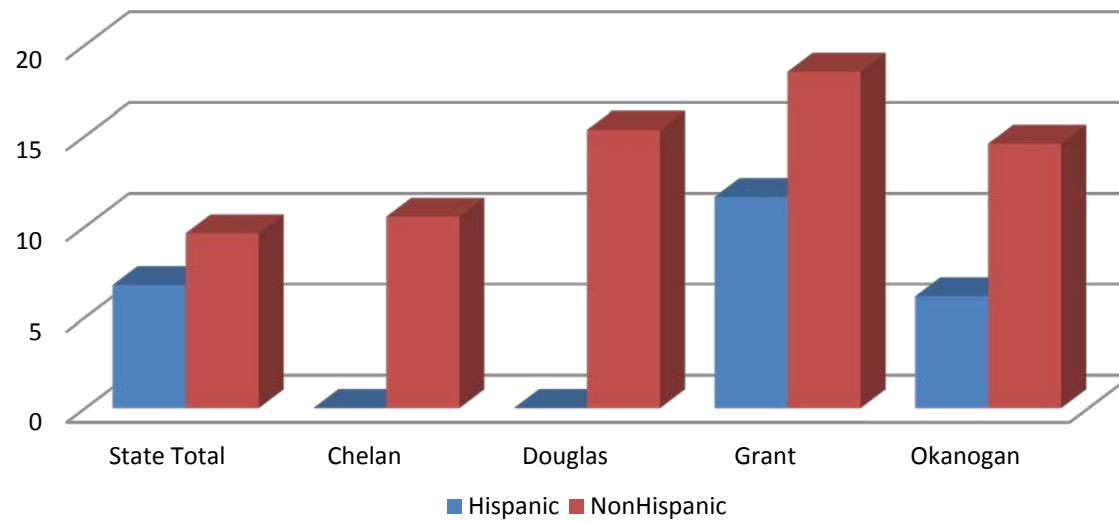
## Age-Adjusted ColoRectal Cancer Incidence Rates/100K Pop 2006-2010

Source: WSDOH CHAT



## Age-Adjusted Prostate Cancer Mortality Rates/100K Pop 2007-2011

Source: WSDOH CHAT

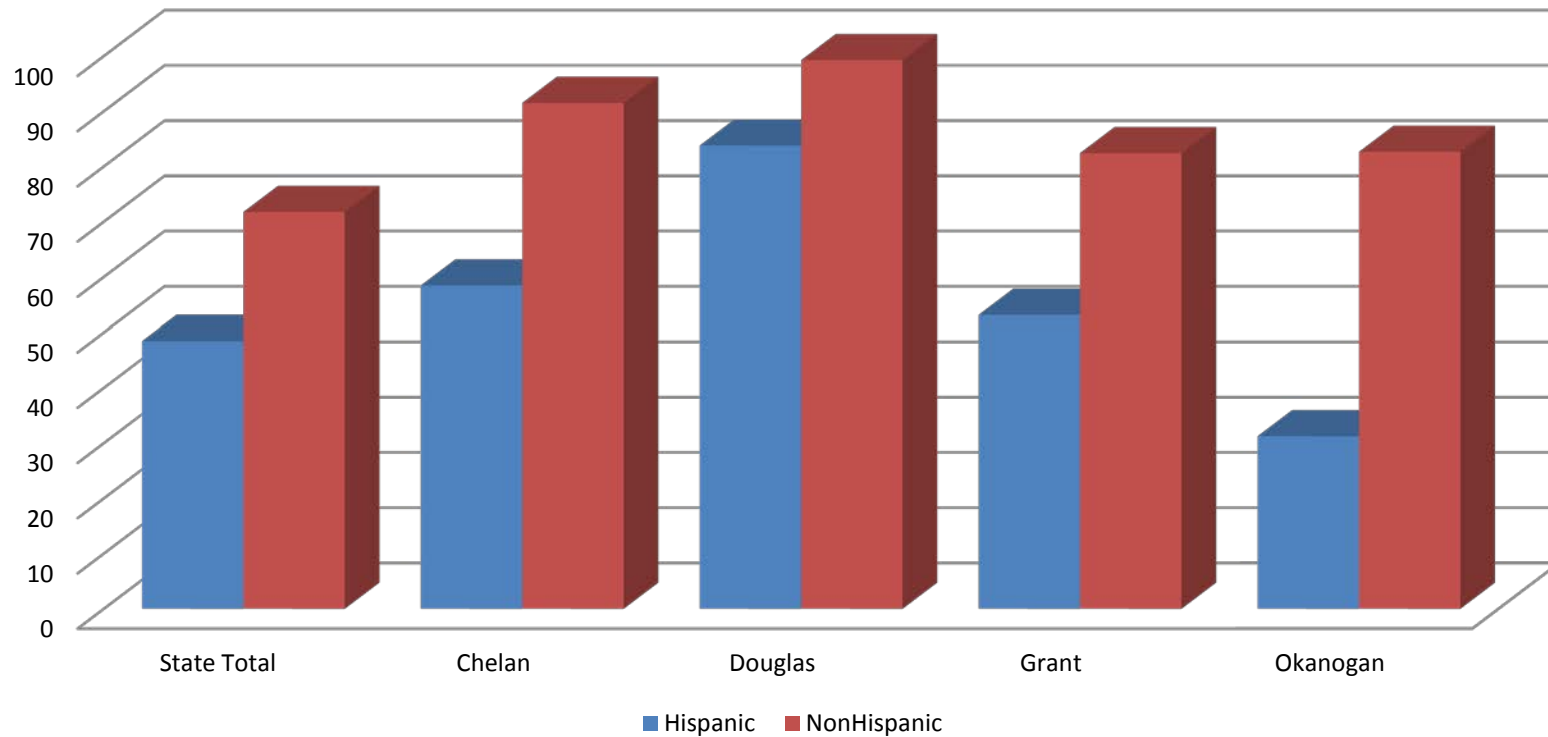


County data, especially for Hispanics, involve very small numbers and should be interpreted with caution. Total cases in the period were 45 for Chelan, 30 for Douglas, 72 for Grant and 37 for Okanogan.



## Age-Adjusted Prostate Cancer Incidence Rates per 100K Pop 2006-2010

Source: WSDOH CHAT

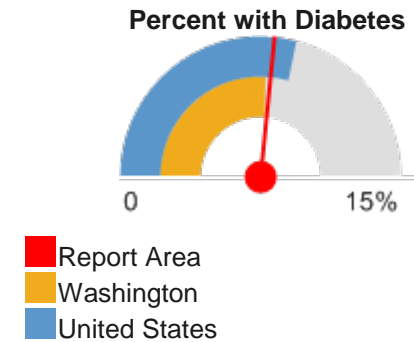


Hispanic rates involve very low numbers and should be interpreted cautiously. Hispanic cases during the years 2006-2010 were 12 in Chelan, 7 in Douglas, 23 in Grant and 4 in Okanogan.

## Diabetes Prevalence

This indicator reports the percentage of adults aged 20 and older who have ever been told by a doctor that they have diabetes. This indicator is relevant because diabetes is a prevalent problem in the U.S.; it may indicate an unhealthy lifestyle and puts individuals at risk for further health issues.

Report Area	Total Population (Age 20 )	Population with Diabetes	Percent with Diabetes
Report Area	185,757.69	14,765	7.95%
Chelan County	60,589.04	4,423	7.30%
Douglas County	28,897.44	2,254	7.80%
Grant County	60,321.84	5,248	8.70%
Okanogan County	35,949.37	2,840	7.90%
Washington	5,099,075.37	395,186	7.75%
United States	239,583,791.97	21,015,523	8.77%



*Note: This indicator is compared with the state average.*

*Data Source: [Centers for Disease Control and Prevention, National Diabetes Surveillance System, 2009.](#)*

*Source geography: County.*

**Population by Gender, Adults with Diabetes, Percentage (Age-Adjusted)**

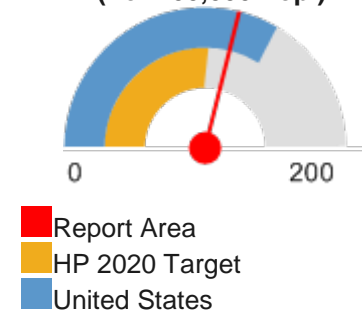
Report Area	Male	Female
Report Area	8.60%	7.43%
Chelan County	7.60%	7%
Douglas County	8.30%	7.30%
Grant County	9.60%	7.90%
Okanogan County	8.60%	7.40%
Washington	8.28%	7.22%
United States	9.48%	8.08%

## Heart Disease Mortality

This indicator reports the rate of death due to coronary heart disease per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for report areas from county level data, only where data is available. This indicator is relevant because heart disease is a leading cause of death in the United States.

Report Area	Total Population, 2006-2010 Average	Annual Deaths, 2006-2010 Average	Crude Death Rate (Per 100,000 Pop.)	Age-Adjusted Death Rate (Per 100,000 Pop.)
Report Area	233,295	302	129.28	<b>115.75</b>
Chelan County	70,939	99	139.56	<b>104.19</b>
Douglas County	37,129	41	110.43	<b>103.13</b>
Grant County	85,017	104	122.56	<b>130.84</b>
Okanogan County	40,210	57	142.75	<b>115.88</b>
Washington	6,557,307	8,065	122.99	<b>121.14</b>
United States	303,844,430	432,552	142.36	<b>134.65</b>
<u>HP 2020 Target</u>				<= 100.8

Age-Adjusted Death Rate  
(Per 100,000 Pop.)



Note: This indicator is compared with the Healthy People 2020 Target.

Data Source: [Centers for Disease Control and Prevention, National Center for Health Statistics, Underlying Cause of Death, 2006-2010](#). Accessed through [CDC WONDER](#). Source geography: County.

**Population by Gender, Coronary Heart Disease Mortality, Age-Adjusted Rate (Per 100,000 Pop.)**

Report Area	Male	Female
Report Area	149.38	86.86
Chelan County	138.84	75.83
Douglas County	134.48	78.50
Grant County	166.41	99.68
Okanogan County	144.95	87.54
Washington	158.97	91.07
United States	175	103.44

## Heart Disease Prevalence

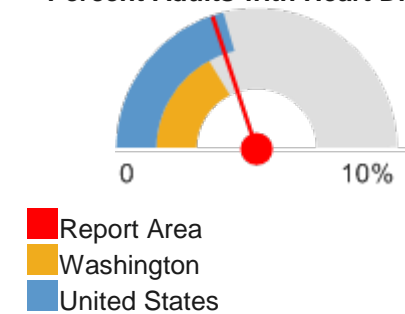
This indicator reports the percentage of adults aged 18 and older who have ever been told by a doctor that they have coronary heart disease or angina. This indicator is relevant because coronary heart disease is a leading cause of death in the U.S. and is also related to high blood pressure, high cholesterol, and heart attacks.

Report Area	Total Population (Age 18 )	Number Adults with Heart Disease	Percent Adults with Heart Disease
Report Area	169,842	6,727	3.96%
Chelan County	53,020	2,269	4.28%
Douglas County	26,980	1,063	3.94%
Grant County	59,156	1,923	3.25%
Okanogan County	30,686	1,473	4.80%
Washington	5,000,516	173,018	3.46%
United States	232,747,222	9,911,760.85	4.26%

Note: This indicator is compared with the state average. No breakout data available.

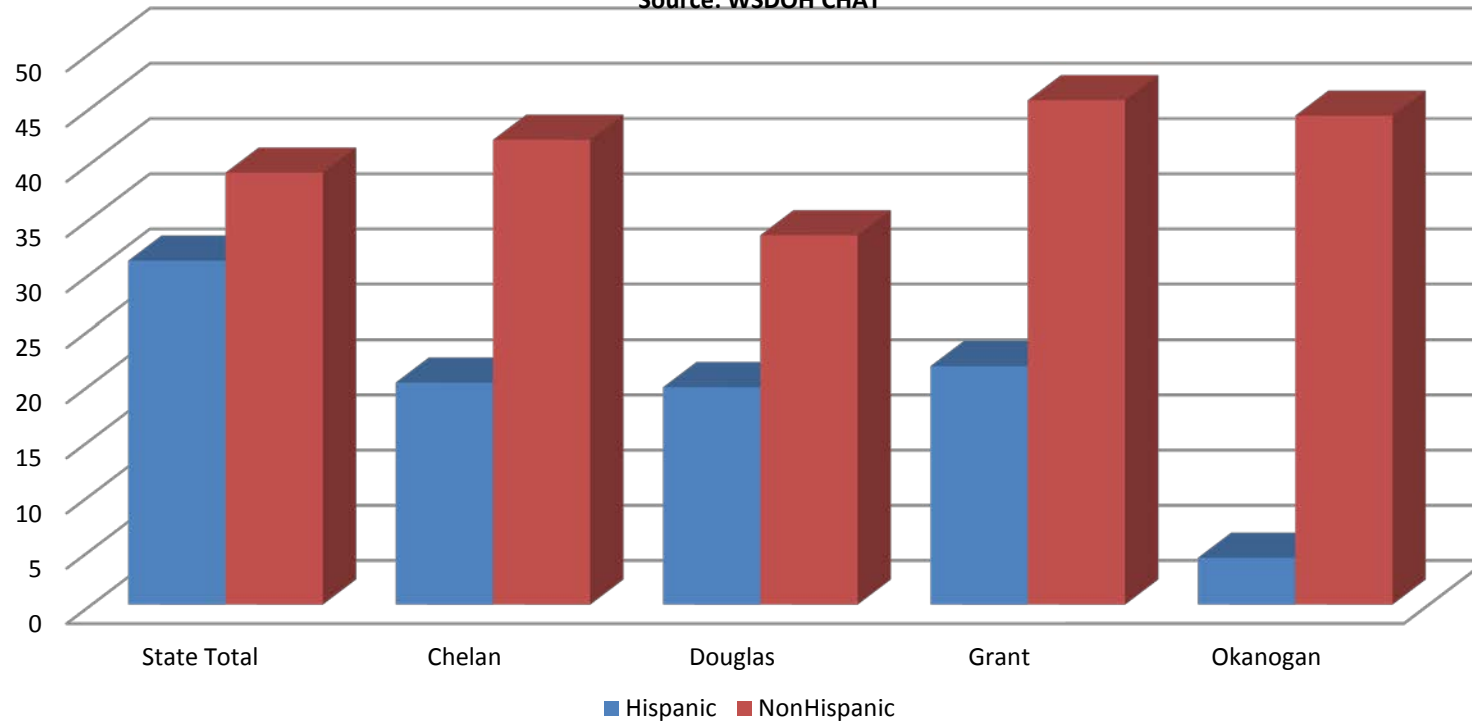
Data Source: [Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2006-2010](#). Source geography: County.

Percent Adults with Heart Disease



## Age-Adjusted Stroke Mortality Rates per 100K Pop 2007-2011

Source: WSDOH CHAT



Caution should be used in interpreting rates for Hispanics due to very low numbers -- less than 10 cases per county over the period covered.

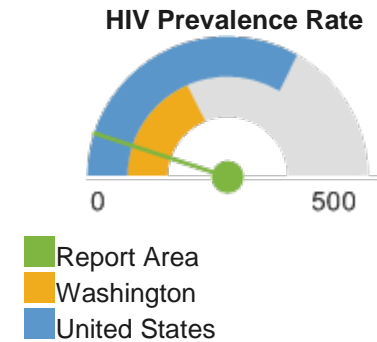
## HIV Prevalence

This indicator reports prevalence rate of HIV per 100,000 population. This indicator is relevant because HIV is a life-threatening communicable disease that disproportionately affects minority populations and may also indicate the prevalence of unsafe sex practices.

Report Area	Total Population ACS 2005-2009	Estimated Population with HIV	HIV Prevalence Rate
Report Area	230,131	115	49.90
Chelan County	70,668	45	64.90
Douglas County	36,145	6	16.90
Grant County	83,612	35	42.30
Okanogan County	39,706	29	75.30
Washington	6,465,755	12,013	185.80
United States	297,679,913	994,491	334

*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [Centers for Disease Control and Prevention and the National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention, 2008](#). Source geography: County.*

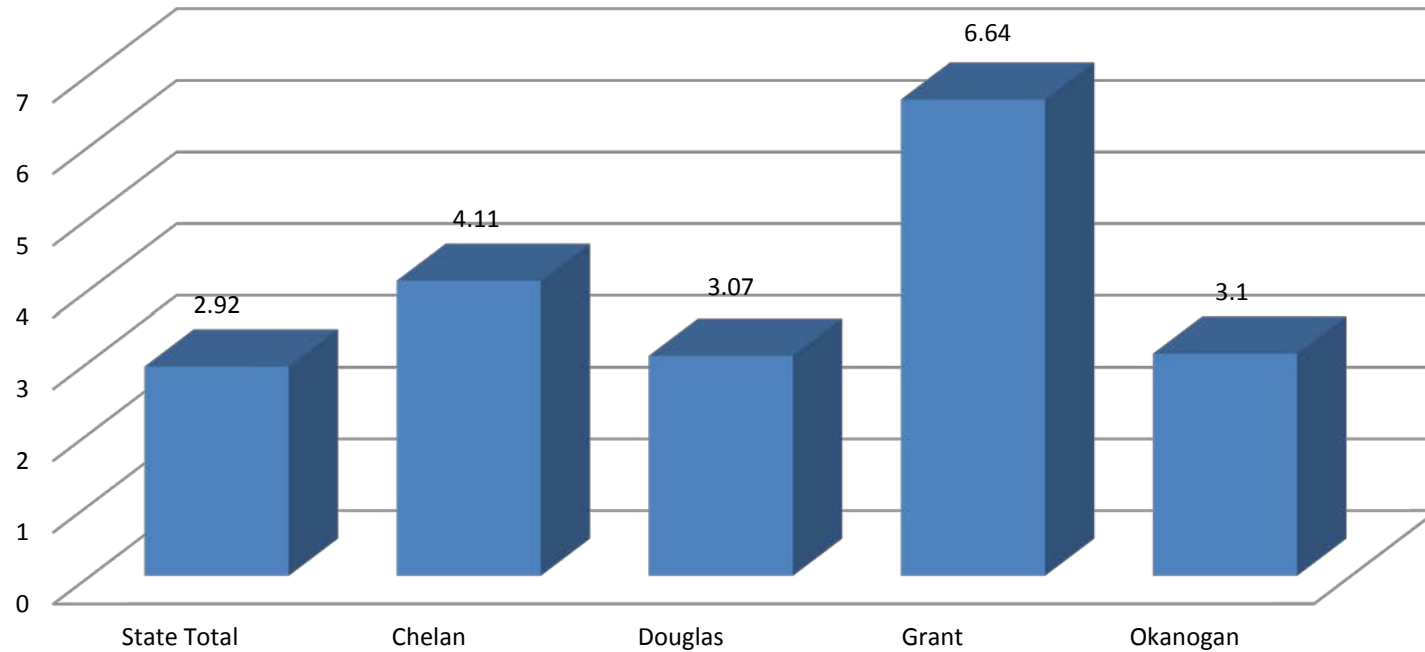




## Homicide

### Age-Adjusted Homicide Rate/100K Pop 2007-2011

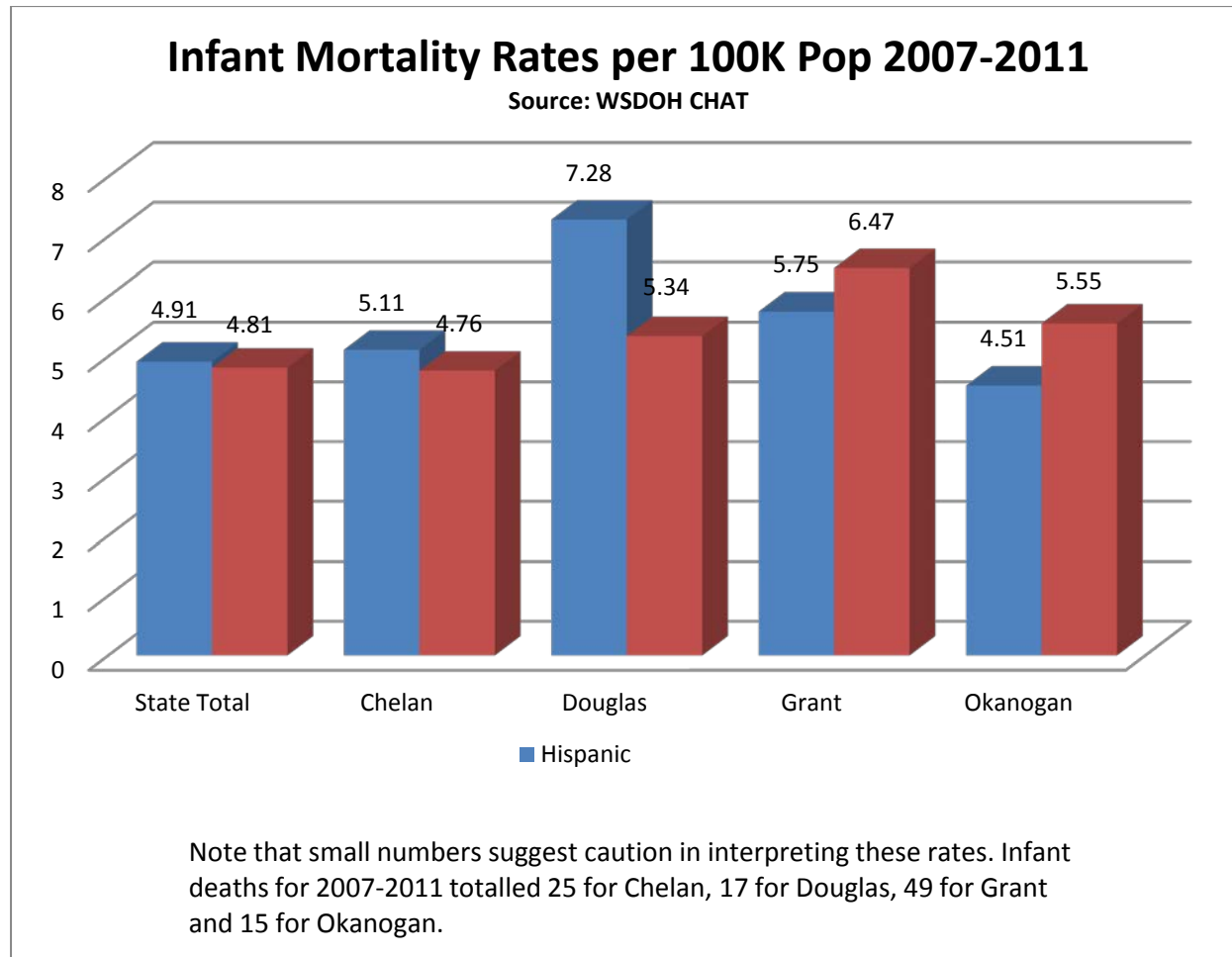
Source: WSDOH CHAT



Note Limitations Due to Small Numbers: Total homicide numbers by county for 2007 through 2011 are small: Chelan, 13; Douglas, 6; Grant, 28; Okanogan 6. Caution is needed in drawing conclusions from such small numbers.

## Infant Mortality

This indicator reports the rate of deaths to infants less than one year of age per 1,000 births. This indicator is relevant because high rates of infant mortality indicate the existence of broader issues pertaining to access to care and maternal and child health.

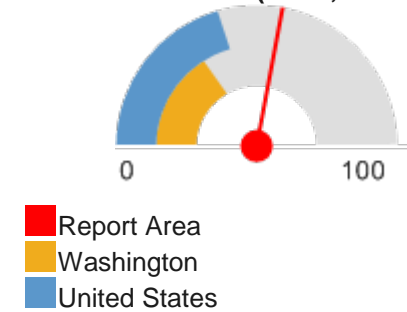


## Teen Births

This indicator reports the rate of total births to women under the age of 15 - 19 per 1,000 female population age 15 - 19. This indicator is relevant because in many cases, teen parents have unique social, economic, and health support services. Additionally, high rates of teen pregnancy may indicate the prevalence of unsafe sex practices.

Report Area	Female Population Age 15 - 19	Births to Mothers Age 15 - 19	Teen Birth Rate (Per 1,000 Births)
Report Area	59,930	3,349	<b>55.88</b>
Chelan County	17,668	788	<b>44.60</b>
Douglas County	9,156	434	<b>47.40</b>
Grant County	22,748	1,606	<b>70.60</b>
Okanogan County	10,358	521	<b>50.30</b>
Washington	1,498,685	49,007	32.70
United States	72,071,117	2,969,330	41.20

Teen Birth Rate (Per 1,000 Births)



Note: This indicator is compared with the state average.

Data Source: [Centers for Disease Control and Prevention, National Vital Statistics Systems, 2003-2009](#).

Accessed through the [Health Indicators Warehouse](#). Source geography: County.

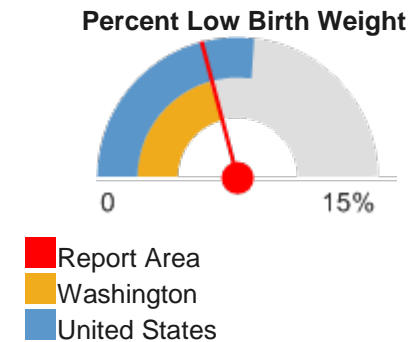
## Low Birth Weight

This indicator reports the percentage of total births that were low birth weight (Under 2500g). This indicator is relevant because low birth weight infants are at high risk for health problems. This indicator can also highlight the existence of health disparities.

Report Area	Total Births	Number Low Birth Weight (< 2500g)	Percent Low Birth Weight
Report Area	24,370	1,523	6.25%
Chelan County	6,685	400	5.98%
Douglas County	3,508	195	5.56%
Grant County	10,457	665	6.36%
Okanogan County	3,720	263	7.07%
Washington	587,603	36,477	6.21%
United States	29,126,451	2,359,843	8.10%

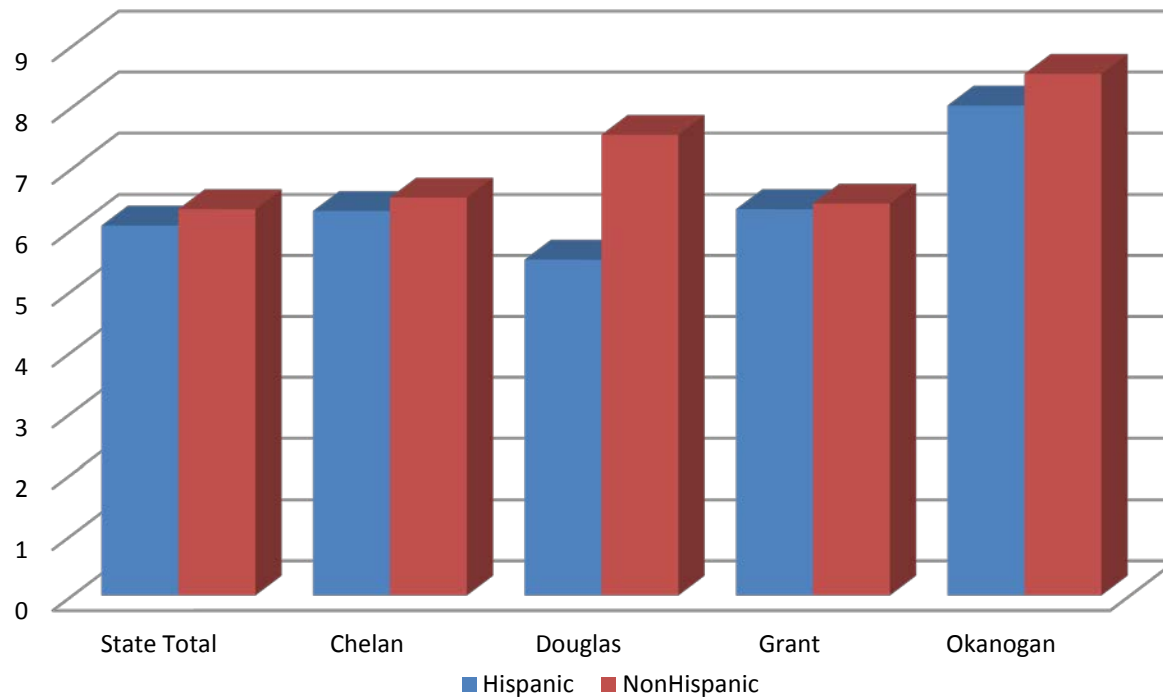
*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [Centers for Disease Control and Prevention, National Vital Statistics Systems, 2003-2009](#). Accessed through the [Health Indicators Warehouse](#). Source geography: County.*



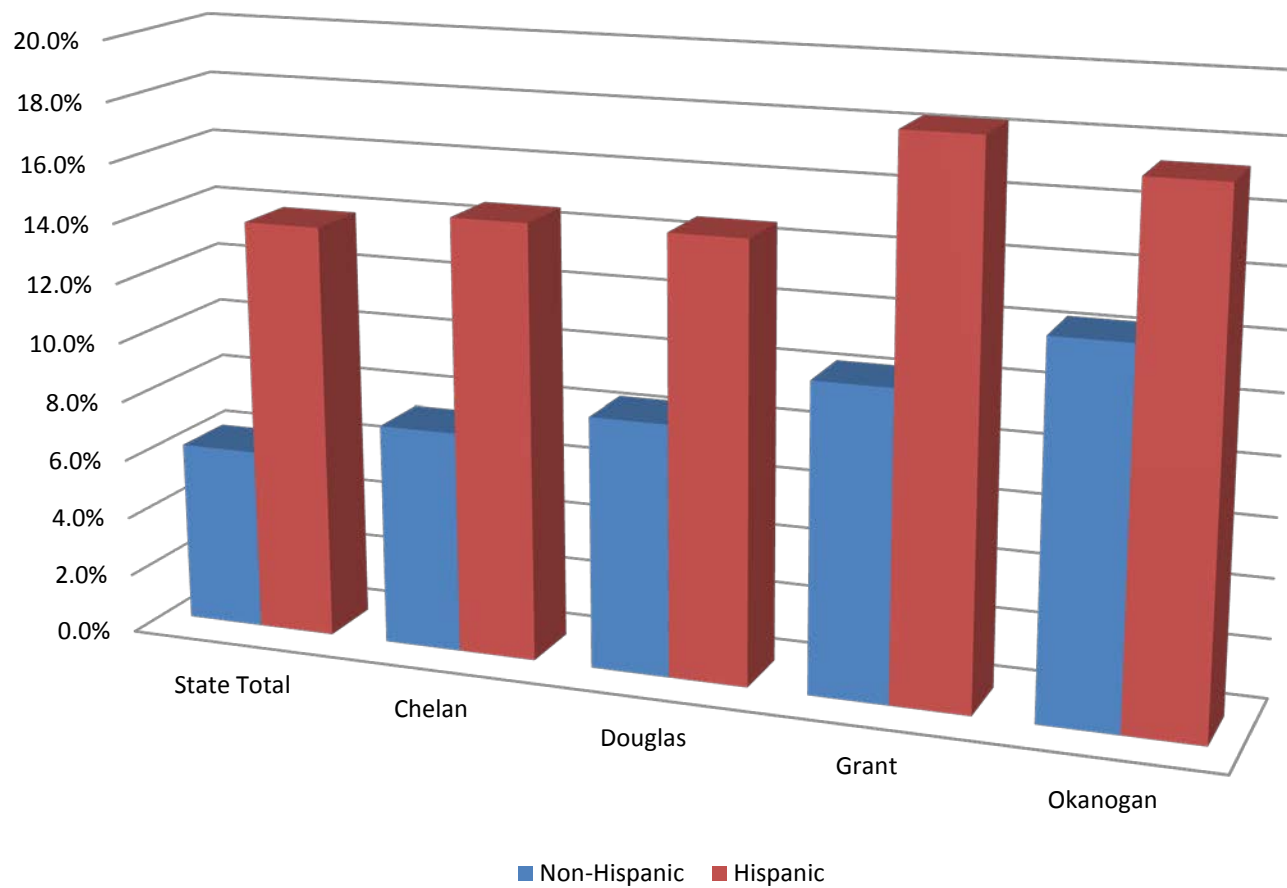
## Percent Low Birthweight 2007-2011

Source: WSDoH CHAT



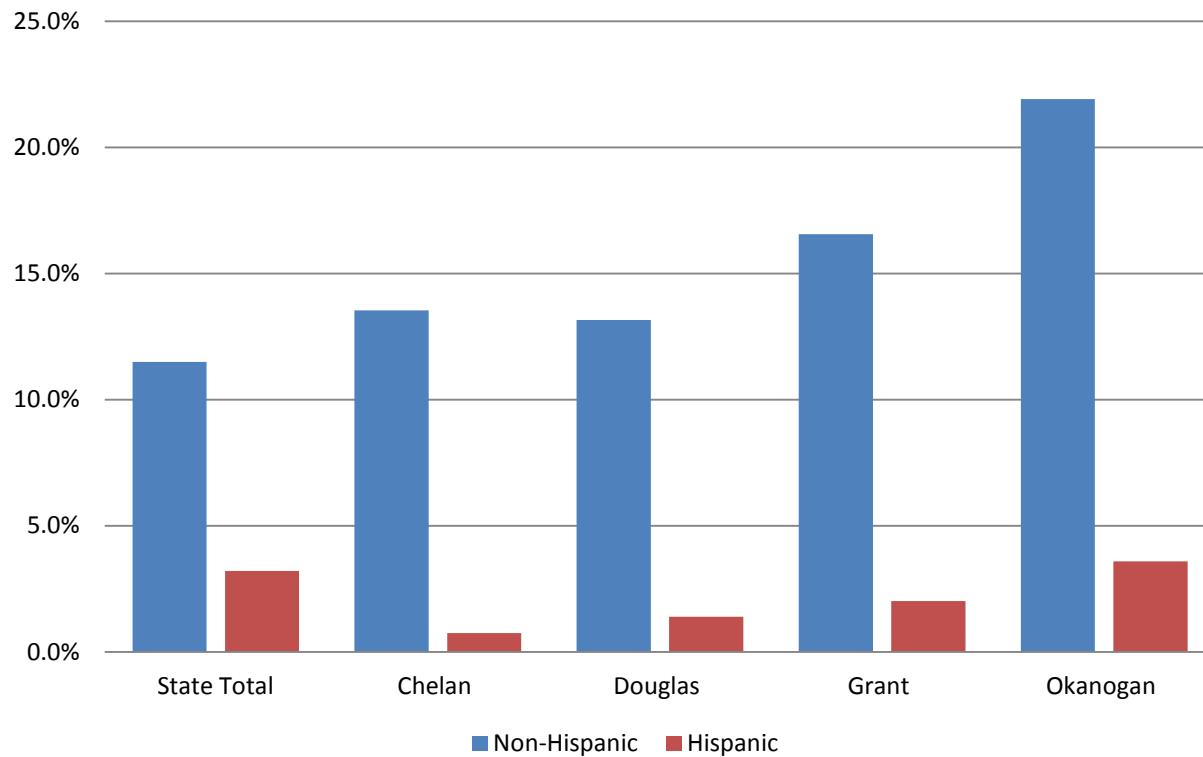
## Percent of Births To Mothers < 20 Years, 2007-2011

Source: WSDOH CHAT



## Percent of Births to Smoking Mothers 2006-2010

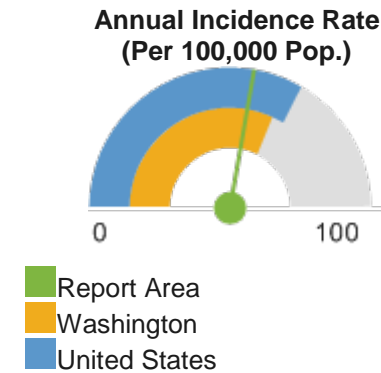
Source: WSDOH CHAT



## Lung Cancer Incidence

This indicator reports the age adjusted incidence rate (cases per 100,000 population per year) of lung cancer adjusted to 2000 U.S. standard population age groups (Under age 1, 1-4, 5-9, ..., 80-84, 85 and older). This indicator is relevant because cancer is a leading cause of death and it is important to identify cancers separately to better target interventions.

Report Area	Total Population, ACS 2005-2009	Annual Incidence, 2005-2009 Average	Annual Incidence Rate (Per 100,000 Pop.)
Report Area	230,131	128	55.60
Chelan County	70,668	36	51.40
Douglas County	36,145	19	52.40
Grant County	83,612	50	59.70
Okanogan County	39,706	23	56.80
Washington	6,465,755	4,151	64.20
United States	301,461,536	202,582	67.20



*Note: This indicator is compared with the state average.*

*Data Source: [The Centers for Disease Control and Prevention, and the National Cancer Institute: State Cancer Profiles, 2005-2009](#). Source geography: County.*

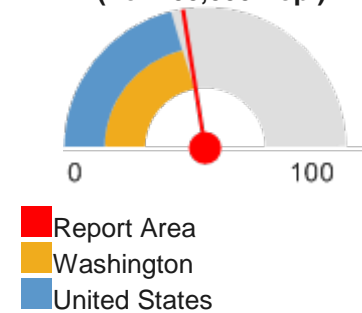


## Lung Disease Mortality

This indicator reports the rate of death due to chronic lower respiratory disease per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for report areas from county level data, only where data is available. This indicator is relevant because lung disease is a leading cause of death in the United States.

Report Area	Total Population, 2006-2010 Average	Annual Deaths, 2006-2010 Average	Crude Death Rate (Per 100,000 Pop.)	Age-Adjusted Death Rate (Per 100,000 Pop.)
Report Area	233,295	116	49.89	<b>44.97</b>
Chelan County	70,939	37	52.44	<b>41.06</b>
Douglas County	37,129	15	40.94	<b>38.95</b>
Grant County	85,017	38	44.93	<b>48.30</b>
Okanogan County	40,210	26	64.16	<b>50.37</b>
Washington	6,557,307	2,789	42.54	43.30
United States	303,844,430	133,806	44.04	42.40

**Age-Adjusted Death Rate  
(Per 100,000 Pop.)**



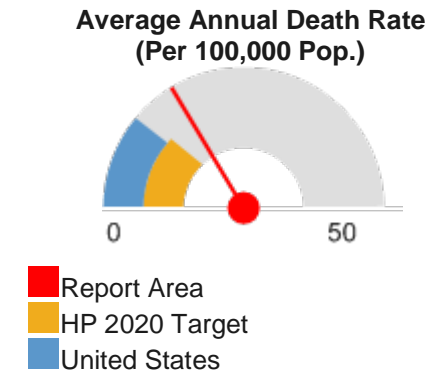
*Note: This indicator is compared with the state average.*

*Data Source: [Centers for Disease Control and Prevention, National Center for Health Statistics, Underlying Cause of Death, 2006-2010](#). Accessed through [CDC WONDER](#). Source geography: County.*

## Motor Vehicle Crash Death

This indicator reports the rate of death due to motor vehicle crashes per 100,000 population, which include collisions with another motor vehicle, a nonmotorist, a fixed object, and a non-fixed object, an overturn, and any other non-collision. This indicator is relevant because motor vehicle crash deaths are preventable and they are a cause of premature death.

Report Area	Total Deaths, 2008-2010	Average Annual Deaths, 2008-2010	Average Annual Death Rate (Per 100,000 Pop.)
Report Area	119	39	16.40
Chelan County	25	8	11.50
Douglas County	6	2	5.20
Grant County	60	20	22.44
Okanogan County	28	9	22.70
Washington	1,458	486	7.20
United States	103,048	34,349	11.13
<a href="#">HP 2020 Target</a>			<= 12.4



*Note: This indicator is compared with the Healthy People 2020 Target. No breakout data available.*

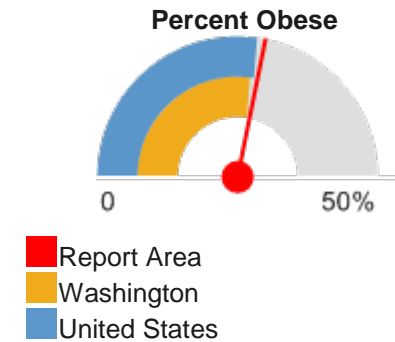
*Data Source: [National Highway Traffic Safety Administration, Fatality Analysis Reporting System, 2008-2010.](#)*

*Source geography: County.*

## Obesity (Adult)

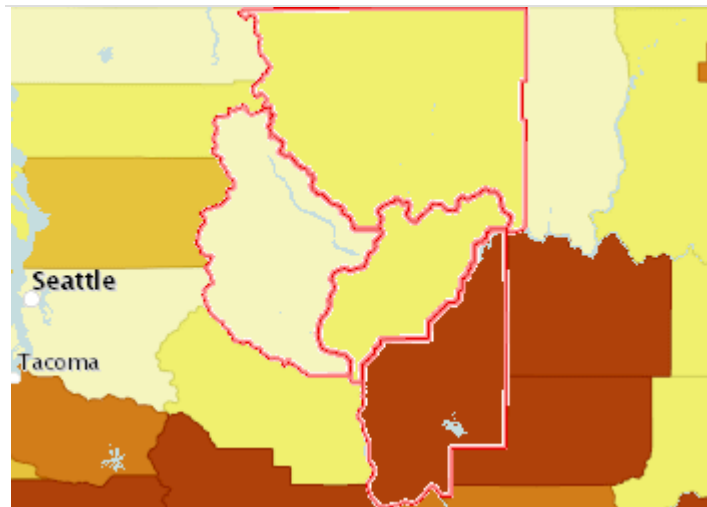
This indicator reports the percentage of adults aged 18 and older who self-report that they have a Body Mass Index (BMI) greater than 30.0 (obese). This indicator is relevant because excess weight is a prevalent problem in the U.S.; it indicates an unhealthy lifestyle and puts individuals at risk for further health issues.

Report Area	Total Population (Age 20 )	Number Obese	Percent Obese
Report Area	166,448.79	46,952	<b>28.21%</b>
Chelan County	52,454.55	12,694	<b>24.20%</b>
Douglas County	26,231.05	7,266	<b>27.70%</b>
Grant County	58,308.64	18,892	<b>32.40%</b>
Okanogan County	29,454.55	8,100	<b>27.50%</b>
Washington	4,946,122.84	1,341,720	27.13%
United States	224,690,904.71	61,460,308	27.35%

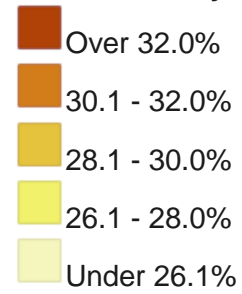


*Note: This indicator is compared with the state average.*

*Data Source: [Centers for Disease Control and Prevention, National Diabetes Surveillance System, 2009](#). Source geography: County.*



**Pct. Adults Obese (BMI >25.0), By County, CDC National Diabetes Surveillance System, 2009**



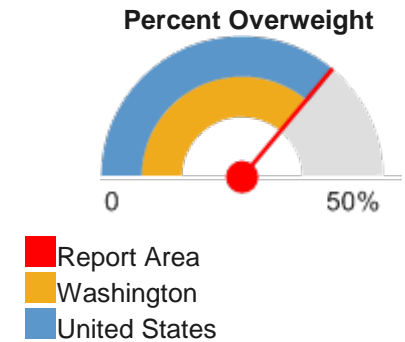
**Population by Gender, Adults Obese, Percentage (Age-Adjusted)**

Report Area	Male	Female
Report Area	29.36%	27.01%
Chelan County	25.70%	22.60%
Douglas County	28.50%	26.90%
Grant County	33.70%	31.10%
Okanogan County	27.80%	27.20%
Washington	28.03%	26.10%
United States	28.30%	26.03%

## Overweight (Adult)

This indicator reports the percentage of adults aged 18 and older who self-report that they have a Body Mass Index (BMI) between 25.0 and 30.0 (overweight). This indicator is relevant because excess weight is a prevalent problem in the U.S.; it indicates an unhealthy lifestyle and puts individuals at risk for further health issues.

Report Area	Total Population (Age 18 )	Number Overweight	Percent Overweight
Report Area	169,842	61,123	35.99%
Chelan County	53,020	18,880	35.61%
Douglas County	26,980	10,393	38.52%
Grant County	59,156	21,095	35.66%
Okanogan County	30,686	10,755	35.05%
Washington	5,000,516	1,796,185	35.92%
United States	232,747,222	84,521,271.09	36.31%

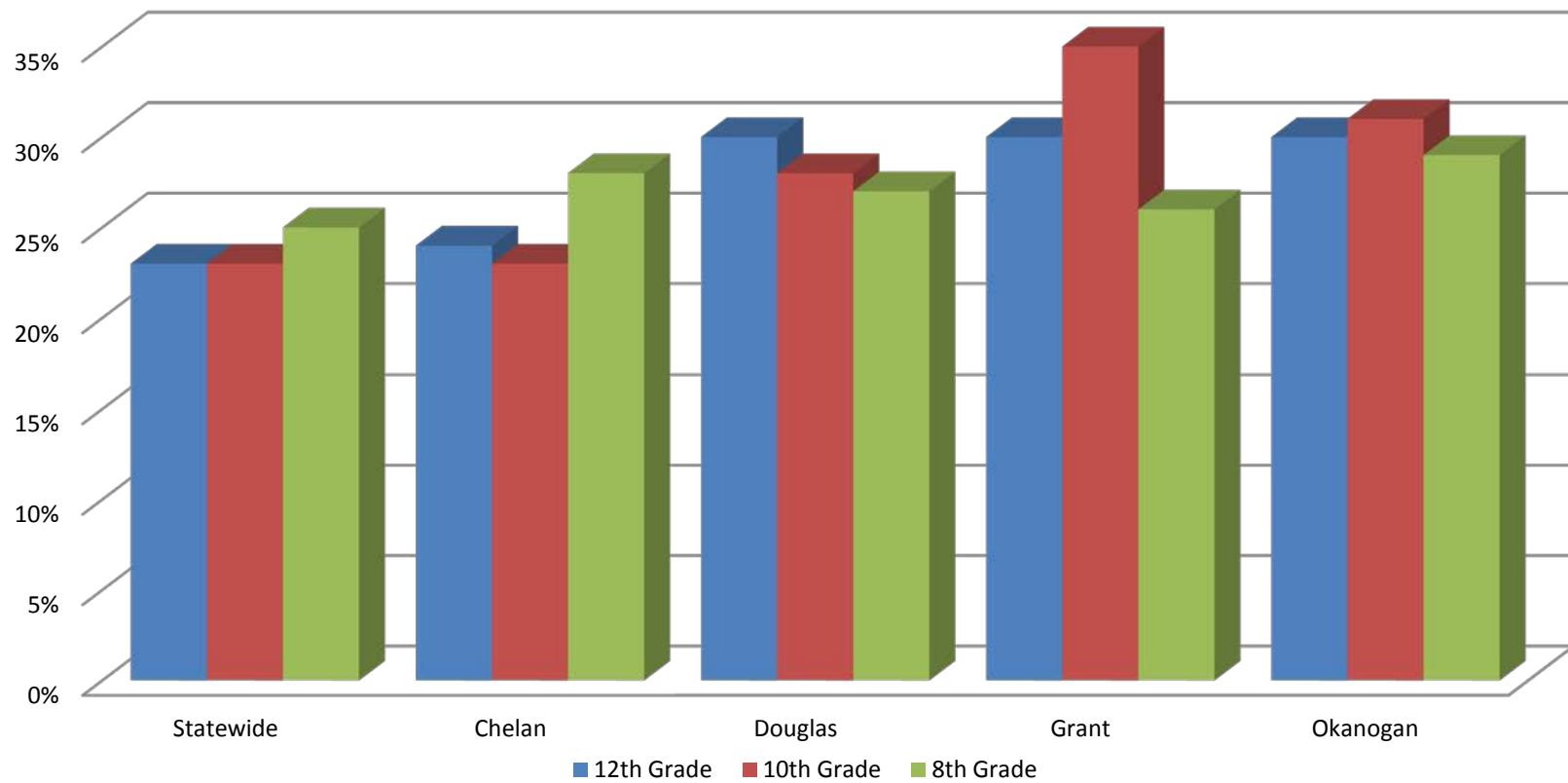


*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2006-2010.](#)*

*Source geography: County.*

## 8th, 10th & 12th Graders Overweight or Obese Healthy Youth Survey 2012

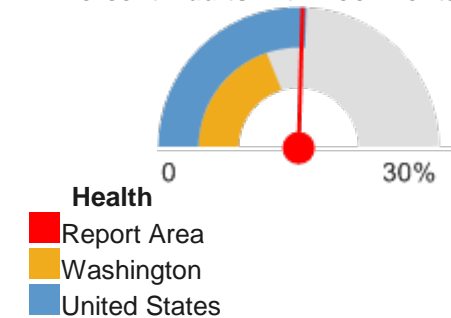


## Poor Dental Health

This indicator reports the percentage of adults age 18 and older who self-report that six or more of their permanent teeth have been removed due to tooth decay, gum disease, or infection. This indicator is relevant because it indicates lack of access to dental care and/or social barriers to utilization of dental services.

Report Area	Total Population (Age 18 )	Number Adults with Poor Dental Health	Percent Adults with Poor Dental Health
Report Area	169,842	25,947	15.28%
Chelan County	53,020	7,672	14.47%
Douglas County	26,980	4,419	16.38%
Grant County	59,156	8,891	15.03%
Okanogan County	30,686	4,965	16.18%
Washington	5,000,516	601,062	12.02%
United States	232,747,222	36,229,520	15.57%

Percent Adults with Poor Dental



*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2006-2010](#). Source geography: County.*



## Poor General Health

This indicator reports the percentage of adults age 18 and older who self-report having poor or fair health. This indicator is relevant because it is a measure of general poor health status. The source of this indicator is the Centers for Disease Control and Prevention, Behavioral Risk Factors Surveillance System (BRFSS) 2010.

Report Area	Total Population (Age 18 )	Number Reporting Poor General Health	Percent Reporting Poor General Health
Report Area	166,193	27,962.46	<b>16.83%</b>
Chelan County	52,580	7,729	<b>14.70%</b>
Douglas County	26,099	4,045	<b>15.50%</b>
Grant County	57,596	10,713	<b>18.60%</b>
Okanogan County	29,918	5,475	<b>18.30%</b>
Washington	1,716,677	228,318	13.30%
United States	111,821,887	18,188,242	16.27%

Percent Reporting Poor General



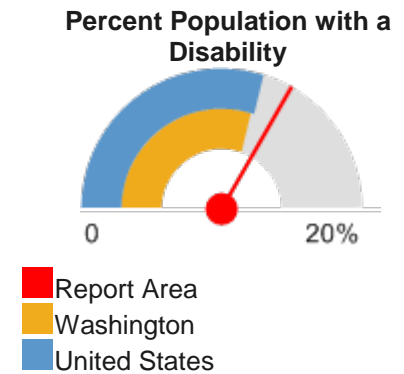
Note: This indicator is compared with the state average. No breakout data available.

Data Source: [Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System, 2004-2010](#). Source geography: County.

## Population with Any Disability

This indicator reports the percentage of the total civilian noninstitutionalized population with a disability. This indicator is relevant because disabled individuals comprise a vulnerable population that requires targeted services and outreach by providers.

Report Area	Population for Whom Disability Status Is Determined	Total Population with a Disability	Percent Population with a Disability
Report Area	236,225	31,391	13.29%
Chelan County	71,344	9,162	12.84%
Douglas County	37,765	5,465	14.47%
Grant County	86,550	10,683	12.34%
Okanogan County	40,566	6,081	14.99%
Washington	6,546,049	783,920	11.98%
United States	301,501,760	36,180,124	12%



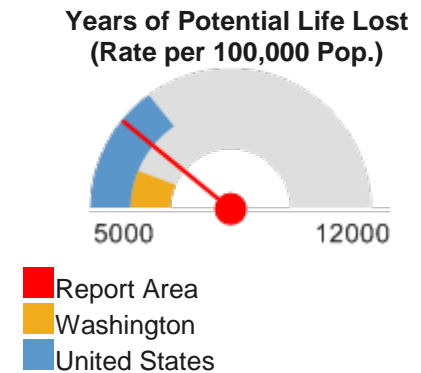
*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [U.S. Census Bureau, 2008-2010 American Community Survey 3-Year Estimates](#). Source geography: Tract.*

## Premature Death

This indicator reports Years of Potential Life Lost (YPLL) before age 75 per 100,000 population for all causes of death, age-adjusted to the 2000 standard. YPLL measures premature death and is calculated by subtracting the age of death from the 75 year benchmark. This indicator is relevant because a measure of premature death can provide a unique and comprehensive look at overall health status.

Report Area	Total Population, 2006-2008 Average	Annual Premature Deaths, 2006-2008 Average	Years of Potential Life Lost (Rate per 100,000 Pop.)
Report Area	214,537	764	<b>6,515</b>
Chelan County	64,859	203	<b>5,054</b>
Douglas County	34,222	107	<b>6,101</b>
Grant County	78,439	263	<b>6,985</b>
Okanogan County	37,017	191	<b>8,462</b>
Washington	6,106,539	19,716	5,888
United States	283,115,015	1,058,493	7,131

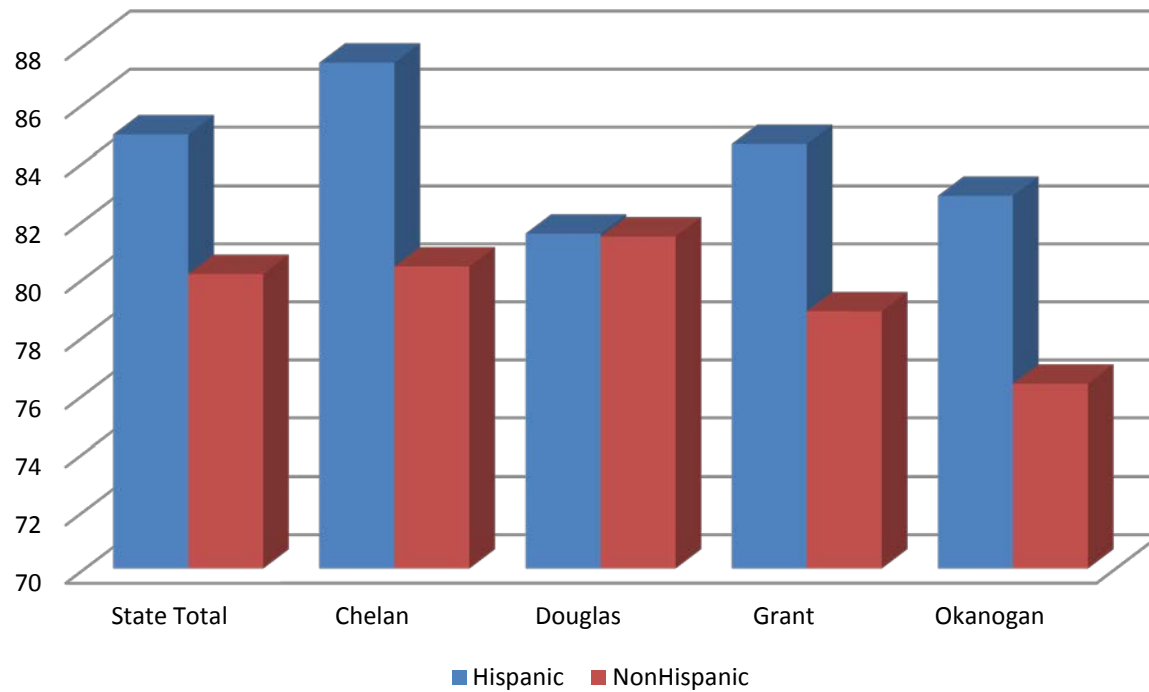


*Note: This indicator is compared with the state average. No breakout data available.*

*Data Source: [Centers for Disease Control and Prevention, National Vital Statistics System, 2008-2010 \(As Reported in the 2012 County Health Rankings\)](#). Source geography: County.*

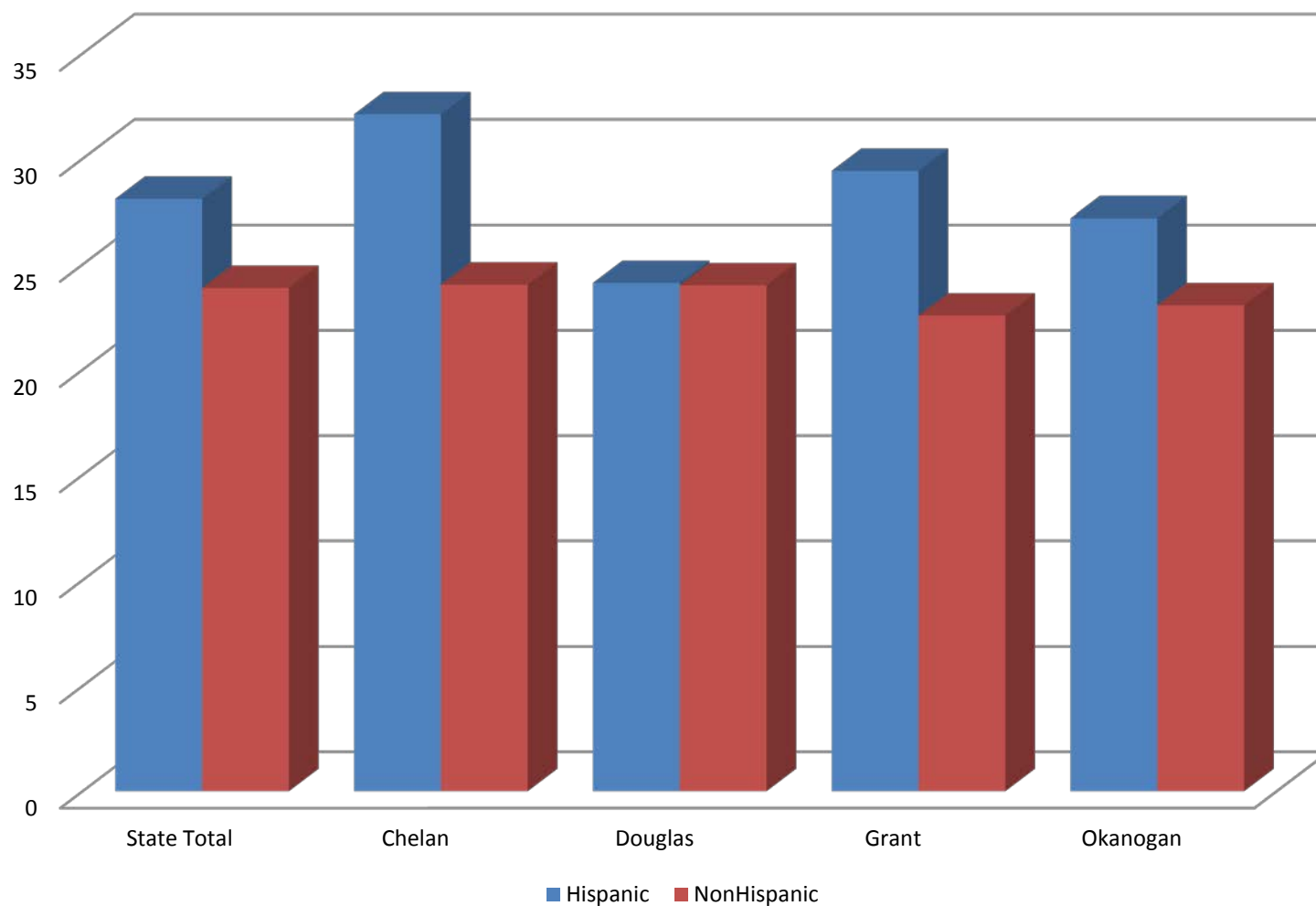
## Life Expectancy in Years for Infants in 2011

Source: WSDOH CHAT



## Years of Additional Life Expectancy for Age 60-64 in 2011

Source: WSDOH CHAT

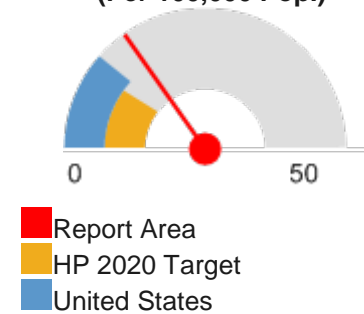


## Suicide

This indicator reports the rate of death due to intentional self-harm (suicide) per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for report areas from county level data, only where data is available. This indicator is relevant because suicide is an indicator of poor mental health.

Report Area	Total Population, 2006-2010 Average	Annual Deaths, 2006-2010 Average	Crude Death Rate (Per 100,000 Pop.)	Age-Adjusted Death Rate (Per 100,000 Pop.)
Report Area	233,295	34	14.57	<b>15.21</b>
Chelan County	70,939	9	12.69	<b>12.77</b>
Douglas County	37,129	6	15.08	<b>16.80</b>
Grant County	85,017	10	12	<b>12.70</b>
Okanogan County	40,210	9	22.88	<b>23.34</b>
Washington	6,557,307	888	13.55	<b>13.16</b>
United States	303,844,430	35,841	11.80	<b>11.57</b>
<a href="#">HP 2020 Target</a>				<= 10.2

Age-Adjusted Death Rate  
(Per 100,000 Pop.)



Note: This indicator is compared with the Healthy People 2020 Target.

Data Source: [Centers for Disease Control and Prevention, National Center for Health Statistics, Underlying Cause of Death, 2006-2010](#). Accessed through [CDC WONDER](#). Source geography: County.