Comprehensive Report Breast Cancer

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PURPOSE

The primary purpose of this report is to provide the most current and accurate breast tumor incidence and mortality data, to describe the long-term trends of breast tumors in the State of Nevada and its counties, and compare them to the United States breast cancer incidence and mortality. It is our hope that the report findings will be utilized by advisory boards, public health professionals, policy makers, and community members to develop programs and policies that will protect the health and well-being of individuals in Nevada.

METHODS

Breast tumor counts, information on county at diagnosis, age at diagnosis, and year of diagnosis, were obtained from the 12/05/2014 Nevada Central Cancer Registry data extract¹. Age-adjusted rates, and confidence intervals were calculated with SEER*Stat methodology², as well as relative standard error (RSE).

Annual age-adjusted rates from years 1995 to 2012 were calculated for breast cases by year, by county, by region, by gender, and by race/ethnicity. For adjustment, population counts were obtained from the 2000 US Standard Population (19 Age-groups)^{3, 4}.

Geographical description was included by county and by describing four geo-demographical regions: Urban-high populated counties (Clark County, Washoe County, and Carson City) and All Other counties (Rural, Frontier, low, and very low population density counties).

For analyses, breast incidence and mortality age-adjusted overall, by gender, and by race rates were compared between Nevada and the US, age-adjusted rates were compared between age groups (<20, 20-39, 40-64, 65-79, and 80+) within Nevada, and age-adjusted rates were compared between counties and between geo-demographical regions. All age-adjusted rates were calculated for the 1995-2012 diagnosis years (annually) and cumulative age-adjusted rates were calculated for the 2008-2012 diagnosis years. Confidence intervals were calculated and included in tables associated with each figure.

TECHNICAL NOTES

The incidence rate is the basic measure of disease occurrence as it expresses the probability or risk of disease in a defined population over a specific period of time. Age-adjusted rates with a common standard population allow for the comparison of rates in populations across regions with different age distributions. This method allows for the comparison between the US, Nevada, Nevada urban counties, Nevada rural and frontier counties. The annual and cumulative age-adjusted rates were calculated by summing the weighted crude, age-specific rates utilizing the national standard: Year 2000 US Standard Population (19 Age-groups), which were expressed per 100,000 Standard Population.

The reliability of the estimates of incidence age-adjusted rates are reflected by the RSE. RSE is the measure of the extent of the age-adjusted rate is likely to deviate from the true population, expressed as a fraction of the age-adjusted estimate, and is usually displayed as a percentage. A RSE of magnitude ≥30% is considered statistically unreliable for this report and a "¥" symbol has been shown in place of a rate with a value equivalent or greater.

The variability of the age-adjusted rates was assessed in terms of confidence intervals. The confidence intervals for this report, the computed intervals, are where we would expect the true age-adjusted rate to be within 95% of the time. Counts more than zero but less than or equal to 5 and their resulting rates and confidence limits were removed due to confidentiality and reliability issues, a "¥" symbol was shown in place of them.

Breast cancer case definitions for this report utilized the current NAACCR Standard Site Analysis Categories⁵. For breast incidence, this includes ICD-O-3 Codes C500-509, all histologies except 9590-9989, 9050-9055, and 9140. For breast mortality, this includes ICD-9 Codes 174-175 and ICD-10 Code C50.

LIMITATIONS

INCIDENCE DATA INTERPRETATION

Due to poor reporting practices in healthcare facilities within Nevada, the completeness or quality of cancer abstracts and timeliness of reporting has declined. In terms of completeness, although required by the NAC, submission of patients' race has not been included in 12.8% of cases reported to NCCR for cancers diagnosed in 2011. In addition, the number of reports received is lower than expected. In terms of timeliness, although required by the NAC, the majority of abstracts were submitted outside of healthcare facilities reporting window for each abstract.

Nevada has two large urban population concentrations and counties among the greatest population dispersion in the nation. This demographic distribution phenomenon results in similar rates between urban counties and the state, and unreliable rates or rates with large variability (large confidence intervals) in smaller, rural and frontier counties. This is primarily due to low frequency cancer cases and small populations.

For Hispanics, "Race" is underreported due to the misunderstanding between "Race" and "Ethnicity." Whether "Hispanic" is written in the race or ethnicity field, after reporting, the ethnicity field will be classified as "Hispanic" and the race field will be left empty. This results in race data being poorly reported.

Native American/Alaska Natives are underrepresented in NCCR. "Studies that estimate misclassification among American Indians/Alaska Natives using cancer registry data report these rates are underreported by 40%–57%, depending on the region of the country." 7,8,9

Reliable survival data depend on the accuracy, completeness, and timeliness of mortality data and cancer data linkages with the state and the National Death Index, and cancer data sharing between other states. The NCCR is actively improving processes in order to attain the data quality necessary for survival calculations.

COMPARING STATE AND COUNTY RATES

Careful interpretation of counties with higher incidence or death rates than other counties or the state is needed to avoid misinterpretation or false conclusions.

Accessibility to medical care and population medical care coverage should be considered when interpreting differing cancer rates. Counties with increased participation in cancer screening result in more diagnosed cancers. In addition, screening leads to earlier detection that have a better prognosis and may find tumors that grow so slowly that they would not have otherwise been recognized in a person's lifetime.

Varying county cancer rates may be explained by the distribution of known risk factors among population in these counties. Although environmental carcinogens are responsible for a few specific cancers, majority of cases appear to be related to lifestyle factors.

Certain racial and ethnic populations are more prone to certain cancers. Thus, a county's racial and ethnic distribution should be considered when making conclusions. Statistical adjustment by race and ethnicity or age-adjusted rates by race and ethnicity can mitigate this issue.

The importance of cancer as a public health problem in a state is more a function of the absolute cancer rate than the state's relative ranking in incidence or mortality. In addition, the true burden of cancer on a healthcare system and economy of a state is determined by the number of people diagnosed with cancer, the number of people dying of cancer, and its social implications. Therefore, higher cancer rates between states may obscure the absolute number of cancer cases.

After adjustment, some uncertainty in computed cancer rates may persists because many factors contribute to the incidence and death rate in a given year or location, and some factors exhibit random behavior. Chance plays a role in determining if and when cancer develops in an individual, whether that cancer is detected, and whether that cancer progresses and leads to death. For these reasons, the reported rates are expected to vary from year to year within a state or county even in the absence of a general trend. Thus, caution is warranted when examining cancer rates for a single year and more so when rates are based on relatively few cases.

A 95% confidence interval is expected to contain the true underlying rate 95% of the time. Confidence intervals are available for age-adjusted rates to assist with interpreting results. Due to variations in the population sizes and number of reported cases and deaths across counties, more uncertainty is present in the incidence and death rates for certain counties. The confidence intervals provide a simple measure of the variability in rates and a basis when making county-specific comparisons. However, it is not recommended to use overlapping confidence intervals as a method to conclude rates are significantly different.

Another consideration when comparing differences between rates is their public health importance. Some rates have large numerators and/or denominators and consequently small standard errors that result in statistically significant differences. Conversely, some rates have large standard errors which are suppressed when they do not meet the maximum 30% relative standard error requirement.

BREAST CANCER MORTALITY

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Figure 1: Breast (Female Only) Cancer Mortality Trend, Nevada vs. United States, 1995-2012.

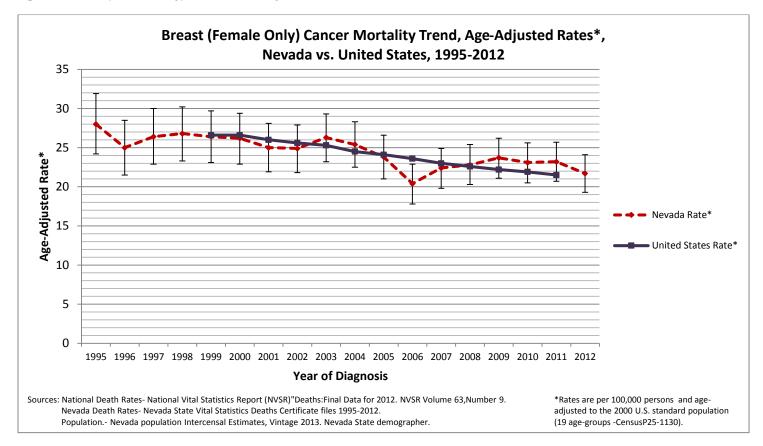


Table 1: Breast (Female Only) Cancer Mortality Age-Adjusted Rates* by year, Nevada and United States, 1995-2012.

	1995	1996	1997	1998	1999	2000	2001	2002	2003
Nevada	28.0 (24.1-31.8)	25.0 (21.5-28.5)	26.4 (22.8-29.9)	26.8 (23.4-30.3)	26.4 (23.1-29.7)	26.2 (23.0-29.5)	25.0 (21.9-28.1)	24.9 (21.9-28.0)	26.3 (23.3-29.4)
United States					26.6 (26.3-26.9)	26.6 (26.4-26.9)	26.0 (25.8-26.3)	25.6 (25.4-25.9)	25.3 (25.0-25.5)

	2004	2005	2006	2007	2008	2009	2010	2011	2012
Nevada	25.4 (22.5-28.3)	23.8 (21.0-26.6)	20.4 (17.9-23.0)	22.4 (19.9-25.0)	22.8 (20.2-25.3)	23.7 (21.2-26.3)	23.1 (20.6-25.7)	23.2 (20.7-25.7)	21.7 (19.3-24.1)
United States	24.5 (24.3-24.7)	24.1 (23.9-24.4)	23.6 (23.3-23.8)	23.0 (22.7-23.2)	22.6 (22.3-22.8)	22.2 (22.0-22.5)	21.9 (21.7-22.1)	21.5 (21.3-21.8)	

^{*}Rates are per 100,000 persons and age-adjusted to the 2000 U.S. standard population (19 age-groups -CensusP25-1130).

Figure 2: Breast (Female Only) Cancer Mortality (Cumulative Annual 5 years period) Age-Adjusted Rates* by Gender, Nevada vs. United States.

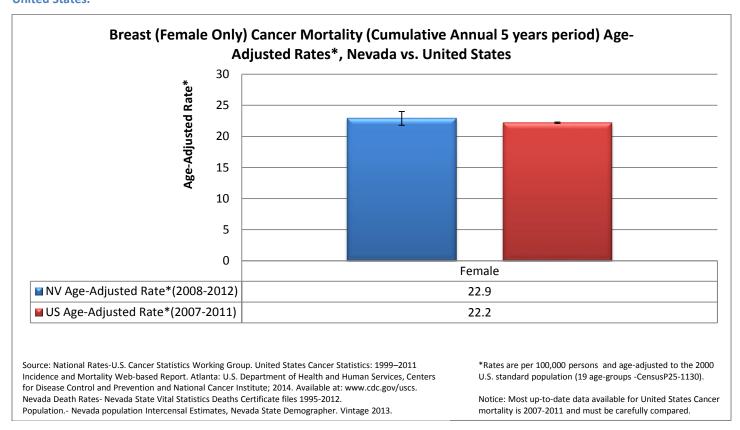


Table 2: Breast (Female Only) Cancer Mortality by Region and Gender. Cumulative Annual Age-Adjusted Rates* Nevada Geodemographical Regions.

Breast (Female Only) Cancer Mortality (All Ages, All Races) by Region - Age- Adjusted Rates*, Nevada, 2008-2012 (Regions ordered by population size)										
Gender	Clark	Washoe	Carson City	Rural						
Female	22.7 (21.3-24.0)	25.1 (22.1-28.1)	27.7 (20.1-35.3)	20.2 (17.2-23.2)						

[¥] Counts more than zero or less than or equal to 5 or Rates with Relative Standard Error (RSE) >30% are suppressed; due to reliability and/or confidentiality issues.

^{*} Rates are per 100,000 persons and age-adjusted to the 2000 US Census standard population.

BREAST CANCER MORTALITY TREND BY RACE/ETHNICITY

Figure 3: Breast (Female Only) Cancer Mortality Trend by Race/Ethnicity, Confidence Intervals, Age-Adjusted Rates*, Nevada, 1995-2012.

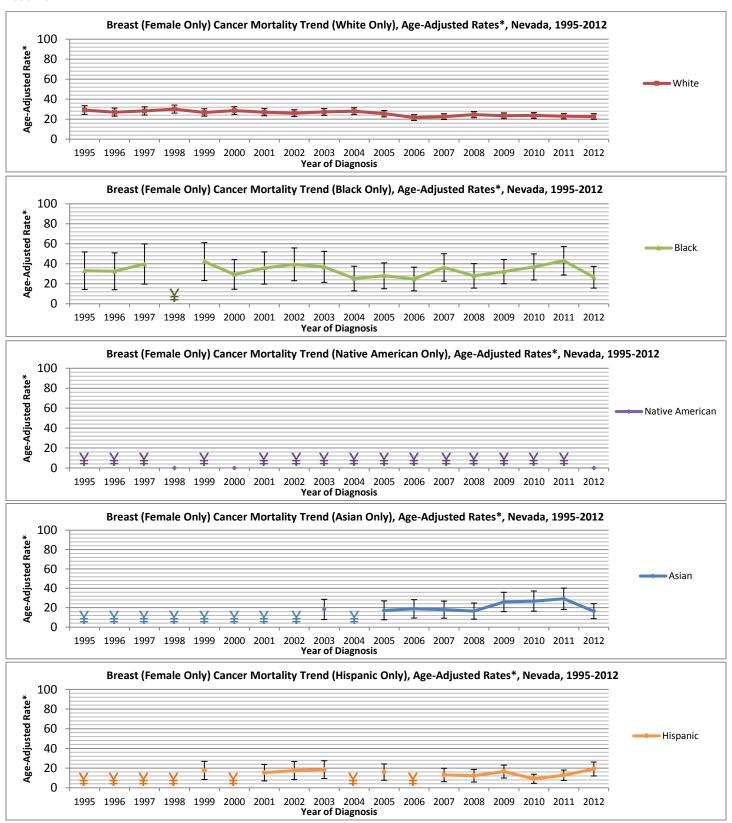


Figure 4: Breast (Female Only) Cancer Mortality Trend by Race/Ethnicity, Age-Adjusted Rates*, United States, 1999-2011.

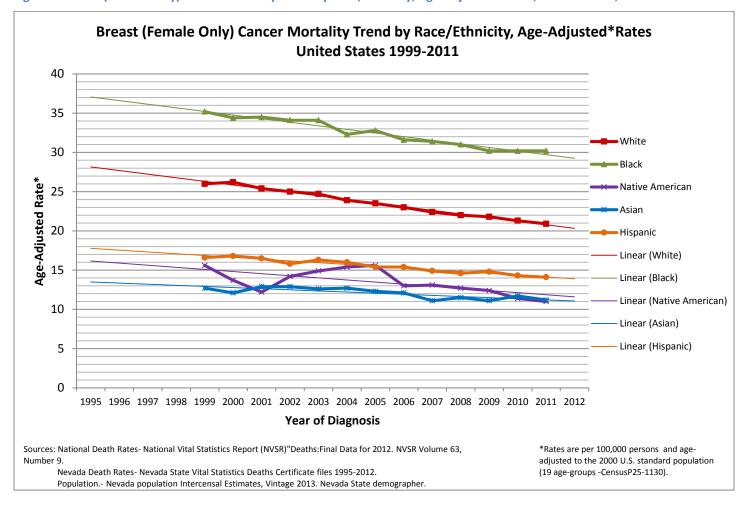


Table 3: Breast (Female Only) Cancer Mortality Annual Age-Adjusted Rates* by Race/Ethnicity, Nevada, 1995-2012.

Nevada	1995	1996	1997	1998	1999	2000	2001	2002	2003
White	29.1 (24.8-33.4)	27.0 (23.1-31.0)	28.2 (24.1-32.3)	30.0 (26.0-34.0)	26.7 (23.0-30.4)	28.6 (24.8-32.4)	26.9 (23.4-30.5)	26.0 (22.5-29.5)	27.2 (23.8-30.6)
Black	33.1 (14.4-51.9)	32.5 (14.1-50.9)	39.7 (19.6-59.8)	¥	42.2 (23.2-61.1)	29.4 (14.5-44.2)	35.8 (19.7-51.9)	39.4 (23.0-55.9)	36.9 (21.5-52.4)
Native American	¥	¥	¥	0	¥	0	¥	¥	¥
Asian	¥	¥	¥	¥	¥	¥	¥	¥	18.3 (7.9-28.6)
Hispanic	¥	¥	¥	¥	17.6 (8.4-26.8)	¥	15.4 (7.0-23.8)	17.5 (8.3-26.6)	18.4 (9.4-27.4)

Nevada	2004	2005	2006	2007	2008	2009	2010	2011	2012
White	27.9 (24.5-31.3)	25.5 (22.3-28.7)	21.6 (18.7-24.5)	22.5 (19.7-25.4)	24.5 (21.5-27.5)	23.4 (20.5-26.3)	23.7 (20.8-26.6)	23.0 (20.2-25.8)	22.6 (19.8- 25.4)
Black	25.3 (12.9-37.6)	28.0 (15.1-41.0)	24.8 (13.0-36.6)	36.4 (22.6-50.1)	27.9 (15.7-40.1)	32.2 (20.0-44.3)	36.9 (23.9-49.9)	43.1 (28.8-57.3)	26.6 (15.7- 37.4)
Native American	¥	¥	¥	¥	¥	¥	¥	¥	0
Asian	¥	17.2 (7.5-27.0)	18.8 (9.3-28.3)	18.0 (9.2-26.8)	16.6 (8.2-24.9)	26.0 (16.0-36.0)	26.8 (16.5-37.2)	29.3 (18.2-40.3)	16.4 (8.6- 24.2)
Hispanic	¥	15.9 (7.6-24.2)	¥	13.0 (6.2-19.8)	12.2 (5.8-18.6)	16.5 (9.9-23.1)	9.2 (4.5-13.8)	12.8 (7.4-18.1)	19.1 (12.0- 26.2)

^{*}Rates are per 100,000 persons and age-adjusted to the 2000 U.S. standard population (19 age-groups -CensusP25-1130).

Table 4: Breast (Female Only) Cancer Mortality Annual Age-Adjusted Rates* by Race/Ethnicity, United States, 1999-2011.

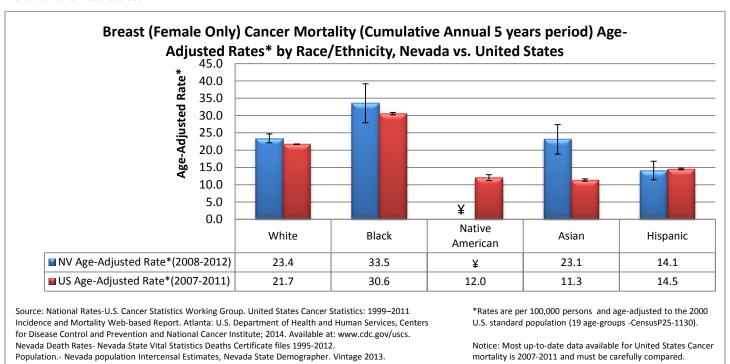
United States	1995	1996	1997	1998	1999	2000	2001	2002	2003
White					26.0 (25.7-26.3)	26.2 (25.9-26.4)	25.4 (25.2-25.7)	25.0 (24.8-25.3)	24.7 (24.4-24.9)
Black					35.2 (34.3-36.2)	34.4 (33.4-35.3)	34.5 (33.6-35.5)	34.1 (33.2-35.1)	34.1 (33.2-35.0)
Native American					15.6 (12.9-18.7)	13.7 (11.3-16.3)	12.2 (10.0-14.6)	14.2 (11.9-16.8)	14.9 (12.4-17.6)
Asian					12.7 (11.7-13.8)	12.1 (11.1-13.1)	12.9 (11.9-13.9)	12.9 (12.0-13.9)	12.6 (11.7-13.6)
Hispanic					16.6 (15.7-17.5)	16.8 (16.0-17.6)	16.5 (15.7-17.3)	15.8 (15.1-16.6)	16.3 (15.6-17.1)

United States	2004	2005	2006	2007	2008	2009	2010	2011	2012
White	23.9 (23.7-24.2)	23.5 (23.2-23.7)	23.0 (22.8-23.3)	22.4 (22.2-22.6)	22.0 (21.7-22.2)	21.8 (21.5-22.0)	21.3 (21.1-21.6)	20.9 (20.7-21.2)	
Black	32.3 (31.4-33.2)	32.8 (32.0-33.7)	31.6 (30.8-32.5)	31.4 (30.5-32.2)	31.0 (30.2-31.8)	30.2 (29.4-31.0)	30.2 (29.4-30.9)	30.2 (29.4-31.0)	
Native American	15.4 (13.0-18.0)	15.6 (13.2-18.3)	13.0 (11.0-15.4)	13.1 (11.1-15.3)	12.7 (10.7-14.8)	12.4 (10.5-14.5)	11.4 (9.6-13.3)	11.0 (9.3-12.9)	
Asian	12.7 (11.8-13.6)	12.3 (11.4-13.2)	12.1 (11.3-13.0)	11.1 (10.3-11.9)	11.5 (10.7-12.3)	11.1 (10.3-11.8)	11.7 (11.0-12.5)	11.2 (10.5-12.0)	
Hispanic	16.0 (15.2-16.7)	15.4 (14.7-16.1)	15.4 (14.7-16.1)	14.9 (14.2-15.5)	14.6 (14.0-15.3)	14.8 (14.2-15.5)	14.3 (13.7-14.9)	14.1 (13.5-14.7)	

^{*}Rates are per 100,000 persons and age-adjusted to the 2000 U.S. standard population (19 age-groups -CensusP25-1130).

BREAST CANCER MORTALITY TREND BY RACE/ETHNICITY, 2008-2012

Figure 5: Breast (Female Only) Cancer Mortality (Cumulative Annual 5 years period) Age-Adjusted Rates* by Race/Ethnicity, Nevada vs. United States.



BREAST CANCER MORTALITY BY REGION, BY RACE/ETHNICITY IN NEVADA, 2008-2012

Table 5: Breast (Female Only) Cancer Mortality by Region and by Race/Ethnicity, Age-Adjusted Rates*, Nevada Geodemographical Regions, 2008-2012

Breast (Female Only) Cancer Mortality (All Ages, All Races) by Races - Age- Adjusted Rates*, 2008-2012 (Regions ordered by population size)												
Race/Ethnicity	Clark	Washoe	Carson City	Rural								
White	22.8 (21.2-24.3)	26.8 (23.4-30.2)	28.1 (20.1-36.2)	21.5 (18.2-24.8)								
Black	34.5 (28.6-40.4)	¥	0	0								
Native American	¥	¥	0	¥								
Asian	23.7 (18.9-28.5)	25.5 (13.0-38.0)	0	¥								
Hispanic	15.5 (12.2-18.8)	¥	¥	¥								
All Races/Ethnicities	22.7 (21.3-24.0)	25.1 (22.1-28.1)	27.7 (20.1-35.3)	20.2 (17.2-23.2)								

[¥] Counts more than zero or less than or equal to 5 or Rates with Relative Standard Error (RSE) >30% are suppressed; due to reliability and/or confidentiality issues.

^{*} Rates are per 100,000 persons and age-adjusted to the 2000 US Census standard population.

BREAST MORTALITY TREND BY AGE GROUPS, 1995-2012

Figure 6: Breast (Female Only) Cancer Mortality Trend by Age Groups, Age-Adjusted Rates*, Nevada, 1995-2012.

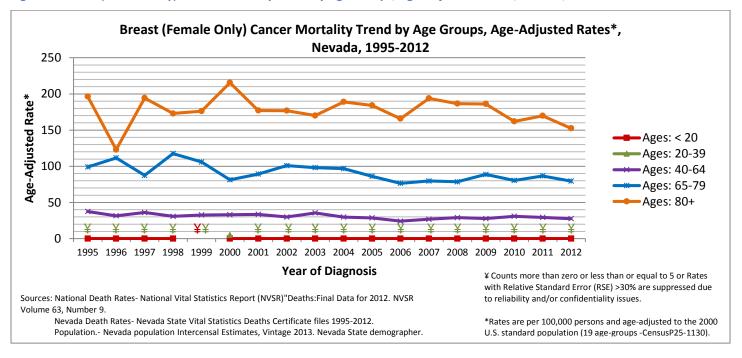


Table 6: Breast (Female Only) Cancer Mortality Annual Age-Adjusted Rates* by Age Groups, Nevada, 1995-2012.

Nevada	1995	1996	1997	1998	1999	2000	2001	2002	2003
< 20	0	0	0	0	¥	0	0	0	0
20 - 39	¥	¥	¥	¥	¥	5.1 (2.4-7.8)	¥	¥	¥
40 - 64	37.5	31.6	36.1	30.8	32.7	33.0	33.5	29.9	35.5
	(29.7-45.4)	(24.7-38.6)	(28.9-43.4)	(24.3-37.3)	(26.3-39.1)	(26.7-39.4)	(27.3-39.8)	(24.1-35.6)	(29.4-41.5)
65 - 79	99.0	111.6	87.4	117.6	106.0	81.3	89.3	100.9	98.1
	(76.3-121.7)	(88.1-135.0)	(66.9-107.9)	(94.5-140.6)	(84.5-127.5)	(62.9-99.7)	(70.3-108.2)	(81.0-120.7)	(78.7-117.4)
80 +	196.4	123.0	194.3	173.0	176.2	215.5	177.1	176.8	170.1
	(132.2-260.5)	(72.7-173.2)	(132.5-256.0)	(118.0-228.0)	(122.3-230.2)	(158.6-272.5)	(127.5-226.7)	(128.3-225.3)	(124.8-215.5)

Nevada	2004	2005	2006	2007	2008	2009	2010	2011	2012
< 20	0	0	0	0	0	0	0	0	0
20 - 39	¥	¥	¥	¥	¥	¥	¥	¥	¥
40 - 64	29.8	28.7	24.2	26.8	29.0	27.7	30.9	29.3	27.6
	(24.3-35.2)	(23.5-33.9)	(19.5-28.9)	(22.0-31.6)	(24.0-34.0)	(22.9-32.5)	(25.9-36.0)	(24.5-34.2)	(22.9-32.3)
65 - 79	96.8	86.2	76.4	79.7	78.6	88.7	80.4	86.6	79.5
	(78.0-115.7)	(68.7-103.7)	(60.2-92.5)	(63.5-95.9)	(62.9-94.3)	(72.5-104.9)	(65.0-95.9)	(70.9-102.2)	(64.6-94.4)
80 +	189.0	184.1	165.8	193.9	186.6	186.1	162.0	169.8	152.5
	(142.0-236.1)	(139.3-228.9)	(124.5-207.0)	(150.3-237.5)	(144.7-228.6)	(144.8-227.4)	(124.1-200.0)	(131.6-207.9)	(116.5-188.5)

^{*}Rates are per 100,000 persons and age-adjusted to the 2000 U.S. standard population (19 age-groups -CensusP25-1130).

BREAST CANCER MORTALITY BY AGE GROUPS, 2008-2012

Figure 7: Breast (Female Only) Cancer Mortality by Age Groups, Cumulative Annual Age-Adjusted Rates*, Nevada, 2008-2012.

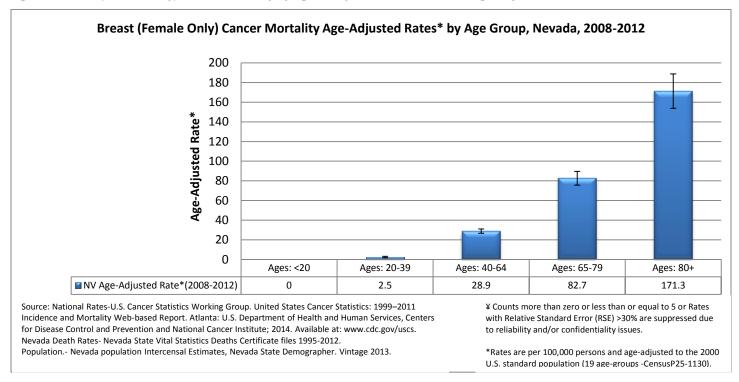


Table 7: Breast (Female Only) Cancer Mortality by Region and by Age Groups, Age-Adjusted Rates*, Nevada Geo-demographical Regions, 2008-2012

Breast (Female C	•	ality (All Races) by gions ordered by po		Adjusted Rates*,
Age Groups	Clark	Washoe	Carson City	Rural
< 20	0	0	0	0
20 - 39	2.4 (1.5-3.2)	¥	¥	¥
40 - 64	29.8	30.0	24.0	22.3
	(27.1-32.4)	(24.5-35.5)	(10.9-37.0)	(16.8-27.8)
65 - 79	80.0	99.8	108.0	74.0
	(71.8-88.1)	(79.4-120.2)	(56.7-159.3)	(55.6-92.4)
80 +	164.8	173.4	277.9	177.5
	(144.2-185.4)	(128.4-218.4)	(156.1-399.7)	(126.2-228.8)
All Ages	22.7	25.1	27.7	20.2
	(21.3-24.0)	(22.1-28.1)	(20.1-35.3)	(17.2-23.2)

[¥] Counts more than zero or less than or equal to 5 or Rates with Relative Standard Error (RSE) >30% are suppressed; due to reliability and/or confidentiality issues.

^{*} Rates are per 100,000 persons and age-adjusted to the 2000 US Census standard population.

BREAST CANCER MORTALITY SNAPSHOT

Table 8: Breast (Female Only) Cancer Mortality Causes Annual Age-Adjusted Rates* by Race/Ethnicity, Nevada, 2008-2012.

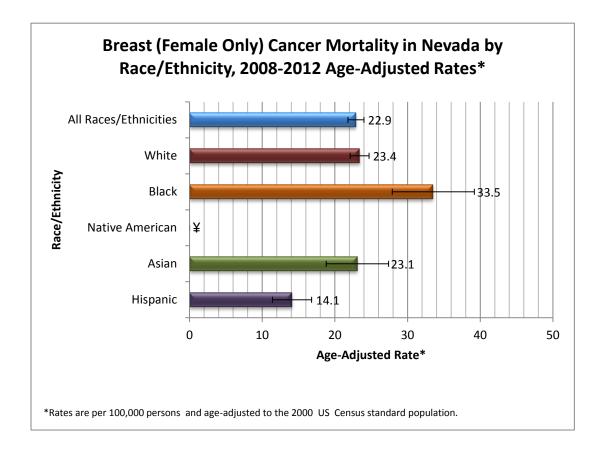
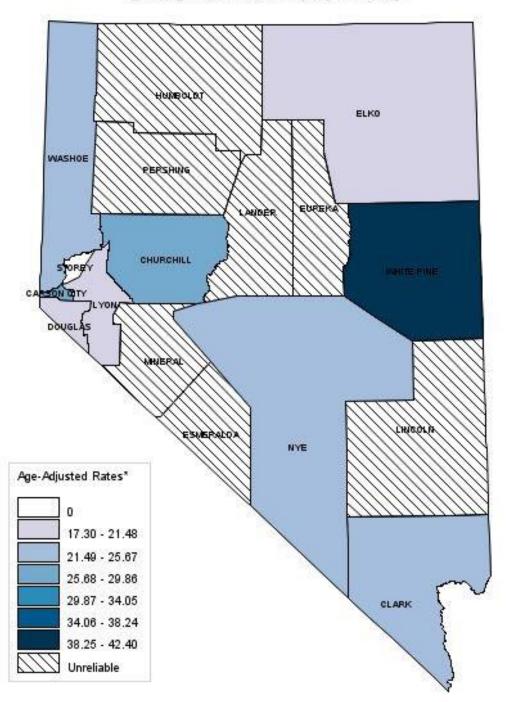


Figure 8: Breast (Female Only) Cancer Mortality Cumulative Annual Age-Adjusted Rates* by County, Nevada, 2008-2012.

Nevada Breast Cancer Mortality, 2008-2012 (All Ages, All Races) by County



^{*}Rates are per 100,000 persons and age-adjusted to the 2000 US Census standard population (19 age grps.-CensusP25-1130).

Figure 9: Breast (Female Only) Cancer Mortality by County, Age-Adjusted Rates*, Nevada, 2008-2012.

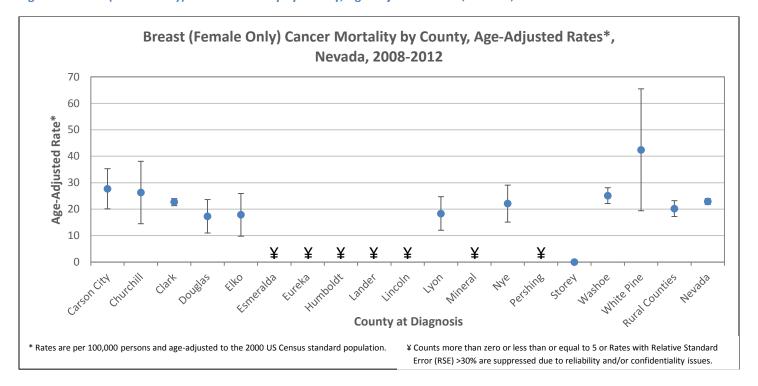


Table 9: Breast (Female Only) Cancer Mortality Cumulative Annual Age-Adjusted Rates* by County, Nevada, 2008-2012.

Nevada Breast (Female Only) Cancer Mortality (All Ages, All Races) by County - Counts/Age-Adjusted Rates*, 2008-2012 **County Counts** Age Adj. Rate* 27.7 **Carson City** 51 (20.1-35.3)26.3 Churchill 19 (14.5-38.1)22.7 Clark 1,129 (21.3-24.0) 17.3 Douglas 29 (11.0-23.6)17.9 Elko 19 (9.8-25.9)Esmeralda ¥ ¥ Eureka ¥ ¥ Humboldt 7 ¥ ¥ Lander ¥ Lincoln ¥ ¥ 18.3 Lyon 32 (12.0-24.7)¥ ¥ Mineral 22.1 Nye 38 (15.1-29.1)Pershing ¥ ¥ Storey 0 0 25.1 Washoe 271 (22.1-28.1)42.4 White Pine 13 (19.4-65.5) 20.2 **Rural Counties** 174 (17.2-23.2)

[¥] Counts more than zero or less than or equal to 5 or Rates with Relative Standard Error (RSE) >30% are suppressed; due to reliability and/or confidentiality issues.

^{*} Rates are per 100,000 persons and age-adjusted to the 2000 US Census standard population.

BREAST CANCER INCIDENCE

BREAST CANCER INCIDENCE

Figure 10: Breast (Female Only) Cancer Incidence Trend, Nevada vs. United States, 1995-2012.

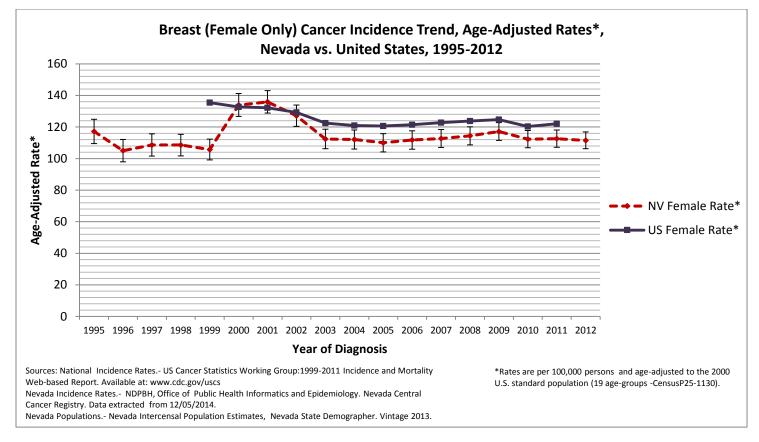


Table 10: Breast (Female Only) Cancer Incidence Age-Adjusted Rates* by year, Nevada and United States, 1995-2012.

	1995	1996	1997	1998	1999	2000	2001	2002	2003
Nevada	117.2 (109.5-124.9)	105.0 (97.9-112.1)	108.6 (101.5-115.6)	108.6 (101.8-115.5)	105.7 (99.1-112.3)	133.9 (126.6-141.1)	135.9 (128.8-143.0)	127.1 (120.3-133.8)	112.4 (106.2-118.6)
United States					135.4 (134.8-136.1)	132.7 (132.1-133.3)	132.2 (131.6-132.8)	129.2 (128.6-129.8)	122.5 (121.9-123.0)

	2004	2005	2006	2007	2008	2009	2010	2011	2012
Nevada	112.1 (106.1-118.2)	110.0 (104.2-115.8)	111.8 (106.0-117.7)	112.7 (107.0-118.4)	114.4 (108.7-120.1)	117.1 (111.4-122.7)	112.3 (106.8-117.8)	112.6 (107.1-118.0)	111.5 (106.1-116.8)
United States	120.9 (120.4-121.5)	120.6 (120.0-121.1)	121.4 (120.8-121.9)	122.8 (122.3-123.3)	123.8 (123.3-124.3)	124.7 (124.1-125.2)	120.3 (119.8-120.8)	122.0 (121.5-122.5)	

^{*}Rates are per 100,000 persons and age-adjusted to the 2000 U.S. standard population (19 age-groups -CensusP25-1130).

BREAST CANCER INCIDENCE BY GENDER, 2008-2012

Figure 11: Breast (Female Only) Cancer Incidence (Cumulative Annual 5 years period) Age-Adjusted Rates* by Gender, Nevada vs. United States.

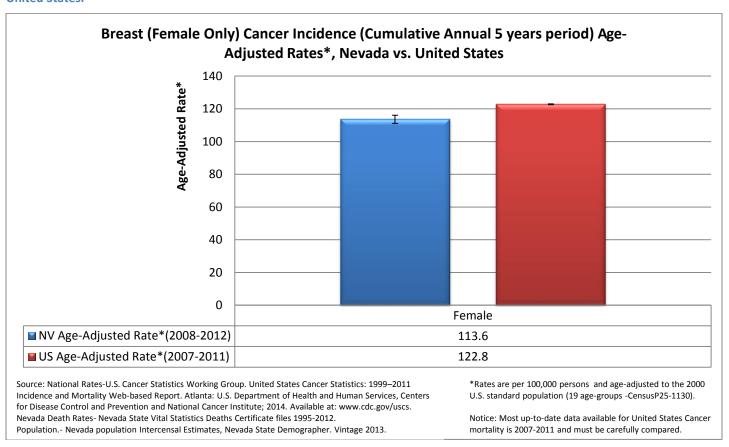


Table 11: Breast (Female Only) Cancer Incidence by Region and Gender. Cumulative Annual Age-Adjusted Rates* Nevada Geodemographical Regions.

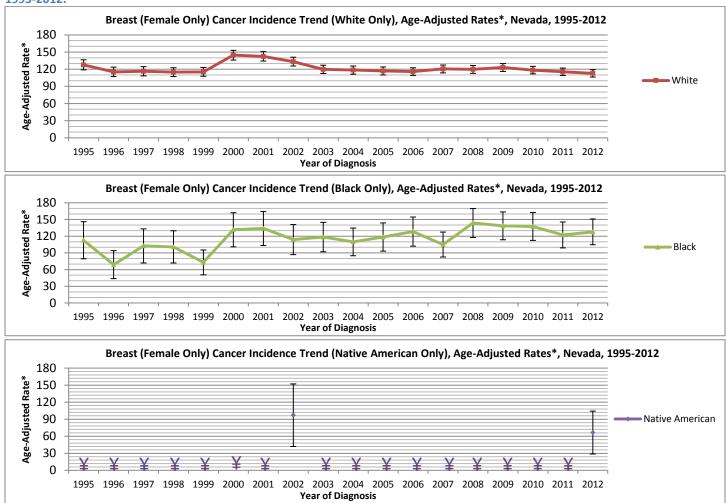
	reast (Female Only) Cancer Incidence (All Ages, All Races) by Region - Age- Adjusted Rates*, Nevada, 2008-2012 (Regions ordered by population size)									
Gender	Clark	Washoe	Carson City	Rural						
Female	109.0 (106.1-111.9)	135.8 (128.9-142.7)	138.3 (120.7-155.9)	105.6 (98.7-112.5)						

[¥] Counts more than zero or less than or equal to 5 or Rates with Relative Standard Error (RSE) >30% are suppressed; due to reliability and/or confidentiality issues.

^{*} Rates are per 100,000 persons and age-adjusted to the 2000 US Census standard population.

BREAST CANCER INCIDENCE TREND BY RACE/ETHNICITY

Figure 12: Breast (Female Only) Cancer Incidence Trend by Race/Ethnicity, Confidence Intervals, Age-Adjusted Rates*, Nevada, 1995-2012.



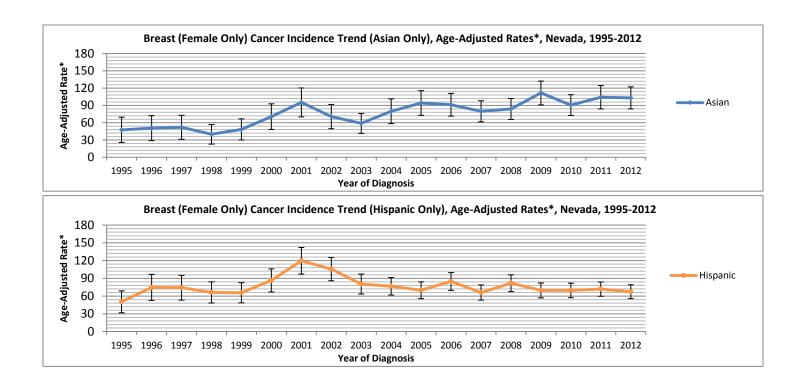


Figure 13: Breast (Female Only) Cancer Incidence Trend by Race/Ethnicity, Age-Adjusted Rates*, United States, 1999-2011.

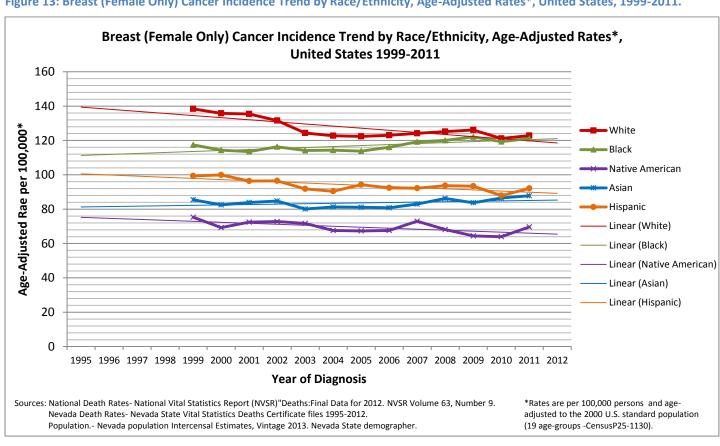


Table 12: Breast (Female Only) Cancer Incidence Annual Age-Adjusted Rates* by Race/Ethnicity, Nevada, 1995-2012.

Nevada	1995	1996	1997	1998	1999	2000	2001	2002	2003
White	127.7	115.4	116.5	114.9	115.4	144.6	142.5	133.3	119.9
	(118.8-136.6)	(107.2-123.6)	(108.4-124.7)	(107.1-122.7)	(107.7-123.1)	(136.2-153.1)	(134.3-150.7)	(125.5-141.1)	(112.7-127.2)
Black	112.8	68.9	102.6	100.8	73.0	131.7	133.9	113.9	118.5
	(79.5-146.1)	(43.8-94.0)	(71.9-133.2)	(72.0-129.6)	(50.7-95.3)	(101.0-162.3)	(103.2-164.6)	(86.8-140.9)	(92.0-144.9)
Native American	¥	¥	¥	¥	¥	¥	¥	97.1 (42.1-152.0)	¥
Asian	47.6	50.7	52.0	40.0	48.4	70.6	95.2	70.7	58.8
	(25.6-69.6)	(29.0-72.4)	(31.2-72.7)	(22.9-57.1)	(30.1-66.6)	(48.4-92.7)	(70.0-120.3)	(49.6-91.8)	(41.4-76.1)
Hispanic	50.3	74.5	74.1	66.1	65.5	86.3	119.6	105.6	80.3
	(31.7-68.9)	(52.5-96.6)	(53.1-95.0)	(48.3-84.0)	(48.5-82.5)	(66.8-105.9)	(97.3-142.0)	(85.9-125.4)	(63.3-97.3)

Nevada	2004	2005	2006	2007	2008	2009	2010	2011	2012
White	118.6 (111.5-125.7)	116.9 (109.9-123.8)	115.8 (109-122.6)	120.5 (113.6-127.3)	119.7 (113.0-126.5)	123.0 (116.3-129.8)	118.5 (111.9-125.1)	115.5 (109.1-121.9)	112.7 (106.3- 119)
Black	109.8 (84.9-134.6)	118.5 (93.3-143.7)	128.2 (102.0-154.4)	105.1 (82.7-127.4)	143.7 (117.7-169.8)	138.6 (113.5-163.7)	137.5 (112.6-162.5)	122.2 (99.1-145.4)	127.8 (104.7- 151)
Native American	¥	¥	¥	¥	¥	¥	¥	¥	66.6 (28.9- 104.3)
Asian	79.9 (58.4-101.4)	94.1 (72.7-115.6)	91.3 (71.5-111.0)	79.8 (61.5-98.1)	83.9 (65.6-102.1)	111.6 (90.8-132.3)	90.6 (72.5-108.7)	104.2 (83.9-124.5)	103.1 (84.0- 122.2)
Hispanic	76.6 (61.8-91.4)	69.8 (55.7-84.0)	84.7 (69.7-99.7)	65.9 (53.0-78.7)	81.8 (67.6-95.9)	69.5 (57.0-82.0)	69.6 (57.3-81.9)	71.7 (59.6-83.8)	67.3 (55.6-79.0)

^{*}Rates are per 100,000 persons and age-adjusted to the 2000 U.S. standard population (19 age-groups -CensusP25-1130).

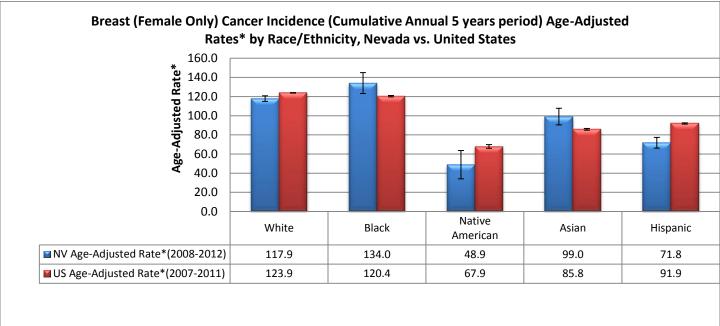
Table 13: Breast (Female Only) Cancer Incidence Annual Age-Adjusted Rates* by Race/Ethnicity, United States, 1999-2011.

United States	1995	1996	1997	1998	1999	2000	2001	2002	2003
White					138.4 (137.8-139.1)	135.8 (135.1-136.5)	135.4 (134.8-136.1)	131.6 (131.0-132.3)	124.3 (123.7-124.9)
Black					117.4 (115.5-119.2)	114.4 (112.6-116.1)	113.5 (111.7-115.3)	116.3 (114.5-118.0)	114.2 (112.6-115.9)
Native American					75.3 (69.4-81.6)	69.3 (63.9-74.9)	72.4 (67.1-78.1)	72.8 (67.6-78.4)	71.7 (66.7-77.0)
Asian					85.5 (82.8-88.3)	82.5 (79.9-85.0)	83.9 (81.4-86.4)	84.7 (82.2-87.1)	80.1 (77.8-82.4)
Hispanic					99.4 (97.4-101.5)	99.9 (98.0-101.9)	96.4 (94.5-98.3)	96.5 (94.7-98.4)	91.8 (90.1-93.6)

United States	2004	2005	2006	2007	2008	2009	2010	2011	2012
White	122.7 (122.1-123.3)	122.4 (121.8-122.9)	123.0 (122.4-123.6)	124.1 (123.5-124.7)	125.2 (124.6-125.7)	126.1 (125.6-126.7)	121.2 (120.6-121.7)	122.8 (122.2-123.4)	
Black	114.4 (112.8-116.0)	113.8 (112.2-115.4)	116.0 (114.5-117.6)	119.2 (117.6-120.8)	120.0 (118.4-121.6)	122.1 (120.5-123.6)	119.3 (117.8-120.8)	121.2 (119.7-122.7)	
Native American	67.6 (62.8-72.5)	67.3 (62.6-72.2)	67.6 (63.0-72.4)	73.0 (68.4-77.8)	68.1 (63.7-72.7)	64.4 (60.2-68.7)	64.0 (60.0-68.3)	69.6 (65.4-74.0)	
Asian	81.3 (79.1-83.6)	81.1 (78.9-83.3)	80.8 (78.7-82.9)	83.0 (81.0-85.2)	86.2 (84.2-88.3)	83.7 (81.7-85.7)	86.5 (84.6-88.6)	87.8 (85.9-89.8)	
Hispanic	90.4 (88.8-92.1)	94.2 (92.6-95.9)	92.4 (90.8-94.1)	92.2 (90.6-93.8)	93.7 (92.1-95.3)	93.4 (91.9-95.0)	87.9 (86.4-89.3)	92.1 (90.7-93.6)	

^{*}Rates are per 100,000 persons and age-adjusted to the 2000 U.S. standard population (19 age-groups -CensusP25-1130).

Figure 14: Breast (Female Only) Cancer Incidence (Cumulative Annual 5 years period) Age-Adjusted Rates* by Race/Ethnicity, Nevada vs. United States.



Source: National Rates-U.S. Cancer Statistics Working Group. United States Cancer Statistics: 1999–2011 Incidence and Mortality Web-based Report. Atlanta: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014. Available at: www.cdc.gov/uscs. Nevada Death Rates- Nevada State Vital Statistics Deaths Certificate files 1995-2012. Population.- Nevada population Intercensal Estimates, Nevada State Demographer. Vintage 2013.

Notice: Most up-to-date data available for United States Cancer mortality is 2007-2011 and must be carefully compared

BREAST CANCER INCIDENCE BY REGION, BY RACE/ETHNICITY IN NEVADA, 2008-2012

Table 14: Breast (Female Only) Cancer Incidence by Region and by Race/Ethnicity, Age-Adjusted Rates*, Nevada Geodemographical Regions, 2008-2012

The state of the s	e Only) Cancer I d Rates*, 2008-20			
Race/Ethnicity	Clark	Washoe	Carson City	Rural
White	109.8 (106.3-113.3)	148.8 (140.8-156.9)	150.7 (131.1-170.2)	111.8 (104.3-119.3)
Black	135.9 (124.5-147.2)	¥	0	237.5 (108.4-366.7)
Native American	¥	85.0 (42.0-128.0)	¥	46.6 (21.3-72.0)
Asian	101.0 (91.4-110.6)	96.5 (72.9-120.1)	¥	81.2 (35.3-127.2)
Hispanic	76.9 (70.4-83.5)	57.2 (43.6-70.7)	¥	43.5 (27.1-59.9)
All Races/Ethnicities	109.0 (106.1-111.9)	135.8 (128.9-142.7)	138.3 (120.7-155.9)	105.6 (98.7-112.5)

[¥] Counts more than zero or less than or equal to 5 or Rates with Relative Standard Error (RSE) >30% are suppressed; due to reliability and/or confidentiality issues.

^{*}Rates are per 100,000 persons and age-adjusted to the 2000 U.S. standard population (19 age-groups -CensusP25-1130).

^{*} Rates are per 100,000 persons and age-adjusted to the 2000 US Census standard population.

BREAST CANCER INCIDENCE TREND BY AGE GROUPS, 1995-2012

Figure 15: Breast (Female Only) Cancer Incidence Trend by Age Groups, Age-Adjusted Rates*, Nevada, 1995-2012.

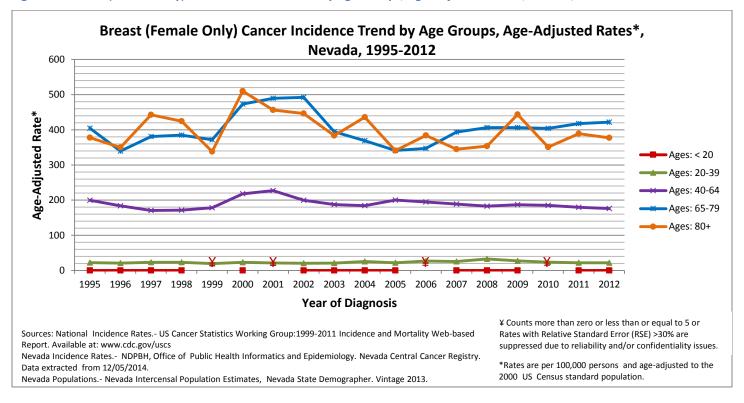


Table 15: Breast (Female Only) Cancer Incidence Annual Age-Adjusted Rates* by Age Groups, Nevada, 1995-2012.

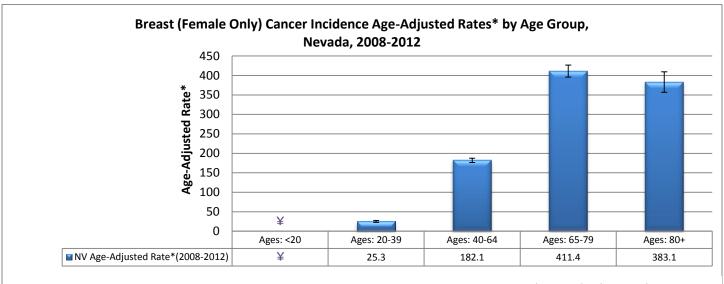
Nevada	1995	1996	1997	1998	1999	2000	2001	2002	2003
< 20	0	0	0	0	¥	0	¥	0	0
20 - 39	22.1	20.7	23.0	23.1	19.4	23.3	21.4	20.2	20.8
	(16.2-28.0)	(15.1-26.4)	(17.2-28.9)	(17.3-28.8)	(14.1-24.6)	(17.6-29.0)	(16.1-26.8)	(15.1-25.4)	(15.6-26.0)
40 - 64	199.8	184.0	170.6	171.6	178.5	217.9	226.9	199.7	187.5
	(181.6-218.0)	(167.1-200.9)	(154.8-186.4)	(156.3-186.9)	(163.3-193.7)	(201.6-234.2)	(210.8-243.1)	(184.8-214.6)	(173.4-201.6)
65 - 79	404.4	339.3	380.8	384.9	371.9	473.3	489.4	492.2	394.6
	(358.8-450.1)	(298.8-379.9)	(338.3-423.3)	(343.3-426.4)	(331.8-411.9)	(429.0-517.6)	(445.0-533.7)	(448.4-536.0)	(356.0-433.3)
80 +	377.5	349.7	442.7	424.5	338.0	510.1	456.4	446.4	383.7
	(288.4-466.6)	(266.6-432.9)	(351.8-533.7)	(340.0-509.0)	(264.4-411.6)	(423.1-597.1)	(377.4-535.5)	(370.6-522.3)	(315.6-451.8)

Nevada	2004	2005	2006	2007	2008	2009	2010	2011	2012
< 20	0	0	¥	0	0	0	¥	0	0
20 - 39	25.6	21.6	26.6	25.2	32.7	27.2	23.7	21.6	21.6
	(19.9-31.3)	(16.4-26.7)	(20.9-32.2)	(19.7-30.7)	(26.6-38.9)	(21.7-32.8)	(18.5-28.9)	(16.6-26.5)	(16.7-26.6)
40 - 64	184.4	200.0	194.5	189.0	182.7	186.8	185.0	179.7	176.2
	(170.8-198.1)	(186.1-213.9)	(181.0-208.0)	(176.0-202.1)	(170.0-195.4)	(174.1-199.4)	(172.5-197.6)	(167.5-191.9)	(164.1-188.2)
65 - 79	368.9	341.3	347.3	393.5	406.2	406.3	403.8	417.8	421.6
	(332.4-405.5)	(306.8-375.7)	(313.3-381.3)	(357.9-429.1)	(370.8-441.7)	(371.6-441.0)	(369.4-438.3)	(383.5-452.2)	(387.7-455.4)
80 +	435.9	340.8	384.2	344.8	353.7	443.7	351.0	389.2	377.4
	(365.4-506.4)	(280.6-401.0)	(321.9-446.6)	(287.1-402.6)	(296.1-411.2)	(379.9-507.4)	(295.0-406.9)	(331.0-447.3)	(320.5-434.3)

^{*}Rates are per 100,000 persons and age-adjusted to the 2000 U.S. standard population (19 age-groups -CensusP25-1130).

BREAST CANCER INCIDENCE BY AGE GROUPS, 2008-2012

Figure 16: Breast (Female Only) Cancer Incidence by Age Groups, Cumulative Annual Age-Adjusted Rates*, Nevada, 2008-2012.



Source: National Rates-U.S. Cancer Statistics Working Group. United States Cancer Statistics: 1999–2011 Incidence and Mortality Web-based Report. Atlanta: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2014. Available at: www.cdc.gov/uscs. Nevada Death Rates- Nevada State Vital Statistics Deaths Certificate files 1995-2012. Population.- Nevada population Intercensal Estimates, Nevada State Demographer. Vintage 2013.

 \pm Counts more than zero or less than or equal to 5 or Rates with Relative Standard Error (RSE) >30% are suppressed due to reliability and/or confidentiality issues.

*Rates are per 100,000 persons and age-adjusted to the 2000 US Census standard population.

Table 16: Breast (Female Only) Cancer Incidence by Region and by Age Groups, Age-Adjusted Rates*, Nevada Geo-demographical Regions, 2008-2012

Breast (Female Only) Cancer Incidence (All Races) by Age Group - Age-Adjusted Rates*, 2008-2012 (Regions ordered by population size)				
Age Groups	Clark	Washoe	Carson City	Rural
< 20	¥	0	0	0
20 - 39	25.1 (22.3-27.9)	26.2 (19.9-32.5)	¥	25.9 (17.6-34.3)
40 - 64	176.8	212.9	206.9	162.9
	(170.3-183.4)	(198.0-227.9)	(167.1-246.6)	(147.6-178.2)
65 - 79	386.6	499.7	541.6	421.5
	(368.8-404.5)	(454.7-544.8)	(427.8-655.4)	(377.7-465.3)
80 +	364.2	514.4	537.3	286.3
	(333.5-394.9)	(436.4-592.4)	(368.7-706.0)	(221.5-351.1)
All Ages	109.0	135.8	138.3	105.6
	(106.1-111.9)	(128.9-142.7)	(120.7-155.9)	(98.7-112.5)

[¥] Counts more than zero or less than or equal to 5 or Rates with Relative Standard Error (RSE) >30% are suppressed; due to reliability and/or confidentiality issues.

^{*} Rates are per 100,000 persons and age-adjusted to the 2000 US Census standard population.

BREAST CANCER INCIDENCE SNAPSHOT

Table 17: Breast (Female Only) Cancer Incidence Causes Annual Age-Adjusted Rates* by Race/Ethnicity, Nevada, 2008-2012.

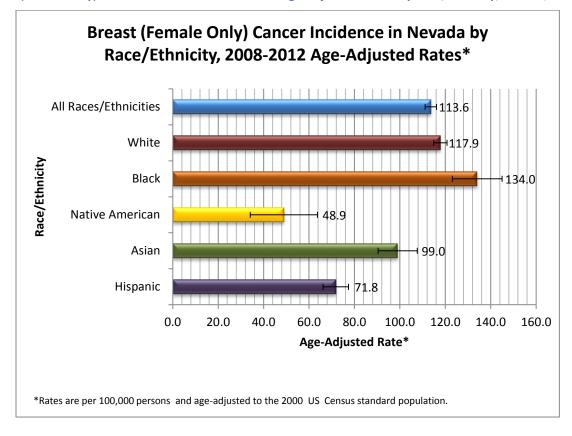
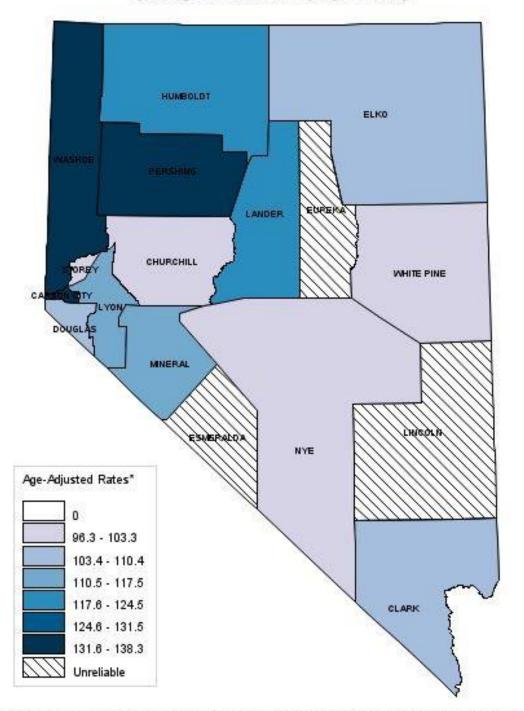


Figure 17: Breast (Female Only) Cancer Incidence Cumulative Annual Age-Adjusted Rates* by County, Nevada, 2008-2012.

Nevada Breast Cancer Incidence, 2008-2012 (All Ages, All Races) by County



^{*}Rates are per 100,000 persons and age-adjusted to the 2000 US Census standard population (19 age grps.-CensusP25-1130).

Figure 18: Breast (Female Only) Cancer Incidence by County, Age-Adjusted Rates*, Nevada, 2008-2012.

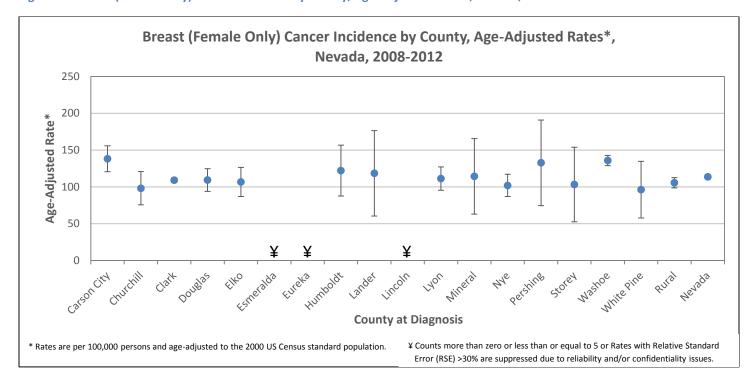


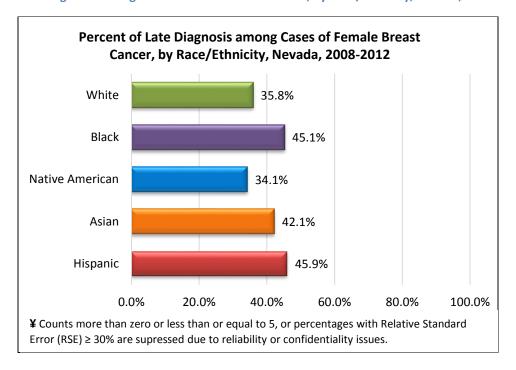
Table 18: Breast (Female Only) Cancer Incidence Cumulative Annual Age-Adjusted Rates* by County, Nevada, 2008-2012.

Nevada Breast (Female Only) Cancer Incidence (All Ages, All Races) by County - Counts/Age-Adjusted Rates*, 2008-2012 **County Counts** Age Adj. Rate* 138.3 **Carson City** 237 (120.7-155.9)98.1 Churchill 72 (75.5-120.8)109.0 Clark 5,461 (106.1-111.9)109.3 Douglas 194 (93.9-124.7) 106.7 Elko 113 (87.0-126.4) 7 ¥ Esmeralda Eureka ¥ ¥ 122.2 Humboldt 48 (87.6-156.8) 118.5 Lander 16 (60.4-176.6)Lincoln 10 ¥ 111.2 Lyon 190 (95.4-127.1) 114.2 Mineral 19 (62.9-165.6)102.0 Nye 175 (86.9-117.1)132.7 Pershing 20 (74.5-190.9)103.2 Storey 16 (52.6-153.8)135.8 Washoe 1,486 (128.9-142.7)96.3 White Pine 24 (57.8-134.8)105.6 **Rural Counties** 905 (98.7-112.5)

[¥] Counts more than zero or less than or equal to 5 or Rates with Relative Standard Error (RSE) >30% are suppressed; due to reliability and/or confidentiality issues.

^{*} Rates are per 100,000 persons and age-adjusted to the 2000 US Census standard population.

Figure 19: Percent of Late Diagnosis among Cases of Female Breast Cancer, by Race/Ethnicity, Nevada, 2008-2012



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