

Comprehensive Report Prostate Cancer

September 2015 | Edition 1.0



*Office of Public Health Informatics and Epidemiology
Division of Public and Behavioral Health
Department of Health and Human Services*

Brian Sandoval
*Governor
State of Nevada*

Cody L. Phinney, MPH
*Administrator
Division of Public and Behavioral Health*

Richard Whitley, MS
*Director
Department of Health and Human Services*

Tracey D. Green, MD
*Chief Medical Officer
Division of Public and Behavioral Health*

ACKNOWLEDGEMENTS

Report Prepared by:

Carmen Ponce, M.D., M.P.H.
NCCR Biostatistician
Nevada Central Cancer Registry

James Kuzhippala, MPH
Health Resource Analyst
Nevada Central Cancer Registry

Editing, Review, and Comments:

Jay Kvam, M.S.P.H.
State Biostatistician
Division of Public and Behavioral Health

Ihsan Azzam, M.D.
State Epidemiologist
Division of Public and Behavioral Health

Martha Framsted
Public Information Officer
Division of Public and Behavioral Health

Theron Huntamer
HIV/AIDS Epidemiology Capacity Coordinator
Division of Public and Behavioral Health

TABLE OF CONTENTS

ACKNOWLEDGEMENTS	i
LIST OF FIGURES	iii
LIST OF TABLES	iv
PURPOSE	1
METHODS	2
TECHNICAL NOTES	2
LIMITATIONS	3
PROSTATE CANCER MORTALITY	5
PROSTATE CANCER INCIDENCE	17
CITATIONS	30
POINT-OF-CONTACT	31
FUNDING SOURCE(S)	31
RECOMMENDED CITATION	31

LIST OF FIGURES

Figure 1: Prostate (Male Only) Cancer Mortality Trend, Nevada vs. United States, 1995-2012.	5
Figure 2: Prostate (Male Only) Cancer Mortality (Cumulative Annual 5 years period) Age-Adjusted Rates* by Gender, Nevada vs. United States.	6
Figure 3: Prostate (Male Only) Cancer Mortality Trend by Race/Ethnicity, Confidence Intervals, Age-Adjusted Rates*, Nevada, 1995-2012.	7
Figure 4: Prostate (Male Only) Cancer Mortality Trend by Race/Ethnicity, Age-Adjusted Rates*, United States, 1999-2011.	8
Figure 5: Prostate (Male Only) Cancer Mortality (Cumulative Annual 5 years period) Age-Adjusted Rates* by Race/Ethnicity, Nevada vs. United States.	10
Figure 6: Prostate (Male Only) Cancer Mortality Trend by Age Groups, Age-Adjusted Rates*, Nevada, 1995-2012.	11
Figure 7: Prostate (Male Only) Cancer Mortality by Age Groups, Cumulative Annual Age-Adjusted Rates*, Nevada, 2008-2012.	12
Figure 8: Prostate (Male Only) Cancer Mortality Cumulative Annual Age-Adjusted Rates* by County, Nevada, 2008-2012.	14
Figure 9: Prostate (Male Only) Cancer Mortality by County, Age-Adjusted Rates*, Nevada, 2008-2012.	15
Figure 10: Prostate (Male Only) Cancer Incidence Trend, Nevada vs. United States, 1995-2012.	17
Figure 11: Prostate (Male Only) Cancer Incidence (Cumulative Annual 5 years period) Age-Adjusted Rates* by Gender, Nevada vs. United States.	18
Figure 12: Prostate (Male Only) Cancer Incidence Trend by Race/Ethnicity, Confidence Intervals, Age-Adjusted Rates*, Nevada, 1995-2012.	19
Figure 13: Prostate (Male Only) Cancer Incidence Trend by Race/Ethnicity, Age-Adjusted Rates*, United States, 1999-2011.	20
Figure 14: Prostate (Male Only) Cancer Incidence (Cumulative Annual 5 years period) Age-Adjusted Rates* by Race/Ethnicity, Nevada vs. United States.	22
Figure 15: Prostate (Male Only) Cancer Incidence Trend by Age Groups, Age-Adjusted Rates*, Nevada, 1995-2012.	23
Figure 16: Prostate (Male Only) Cancer Incidence by Age Groups, Cumulative Annual Age-Adjusted Rates*, Nevada, 2008-2012.	24
Figure 17: Prostate (Male Only) Cancer Incidence Cumulative Annual Age-Adjusted Rates* by County, Nevada, 2008-2012.	26
Figure 18: Prostate (Male Only) Cancer Incidence by County, Age-Adjusted Rates*, Nevada, 2008-2012.	27
Figure 19: Percent of Late Diagnosis among Cases of Prostate Cancer, by Race/Ethnicity, Nevada, 2008-2012.	29

LIST OF TABLES

Table 1: Prostate (Male Only) Cancer Mortality Age-Adjusted Rates* by year, Nevada and United States, 1995-2012.	5
Table 2: Prostate (Male Only) Cancer Mortality by Region and Gender. Cumulative Annual Age-Adjusted Rates* Nevada Geo-demographical Regions.	6
Table 3: Prostate (Male Only) Cancer Mortality Annual Age-Adjusted Rates* by Race/Ethnicity, Nevada, 1995-2012.	9
Table 4: Prostate (Male Only) Cancer Mortality Annual Age-Adjusted Rates* by Race/Ethnicity, United States, 1999-2011.	9
Table 5: Prostate (Male Only) Cancer Mortality by Region and by Race/Ethnicity, Age-Adjusted Rates* , Nevada Geo-demographical Regions, 2008-2012.	10
Table 6: Prostate (Male Only) Cancer Mortality Annual Age-Adjusted Rates* by Age Groups, Nevada, 1995-2012.	11
Table 7: Prostate (Male Only) Cancer Mortality by Region and by Age Groups, Age-Adjusted Rates* , Nevada Geo-demographical Regions, 2008-2012.	12
Table 8: Prostate (Male Only) Cancer Mortality Causes Annual Age-Adjusted Rates* by Race/Ethnicity, Nevada, 2008-2012.	13
Table 9: Prostate (Male Only) Cancer Mortality Cumulative Annual Age-Adjusted Rates* by County, Nevada, 2008-2012.	16
Table 10: Prostate (Male Only) Cancer Incidence Age-Adjusted Rates* by year, Nevada and United States, 1995-2012.	17
Table 11: Prostate (Male Only) Cancer Incidence by Region and Gender. Cumulative Annual Age-Adjusted Rates* Nevada Geo-demographical Regions.	18
Table 12: Prostate (Male Only) Cancer Incidence Annual Age-Adjusted Rates* by Race/Ethnicity, Nevada, 1995-2012.	21
Table 13: Prostate (Male Only) Cancer Incidence Annual Age-Adjusted Rates* by Race/Ethnicity, United States, 1999-2011.	21
Table 14: Prostate (Male Only) Cancer Incidence by Region and by Race/Ethnicity, Age-Adjusted Rates* , Nevada Geo-demographical Regions, 2008-2012.	22
Table 15: Prostate (Male Only) Cancer Incidence Annual Age-Adjusted Rates* by Age Groups, Nevada, 1995-2012.	23
Table 16: Prostate (Male Only) Cancer Incidence by Region and by Age Groups, Age-Adjusted Rates* , Nevada Geo-demographical Regions, 2008-2012.	24
Table 17: Prostate (Male Only) Cancer Incidence Causes Annual Age-Adjusted Rates* by Race/Ethnicity, Nevada, 2008-2012.	25
Table 18: Prostate (Male Only) Cancer Incidence Cumulative Annual Age-Adjusted Rates* by County, Nevada, 2008-2012.	28

PURPOSE

The primary purpose of this report is to provide the most current and accurate prostate tumor incidence and mortality data, to describe the long-term trends of prostate tumors in the State of Nevada and its counties, and compare them to the United States prostate 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

Prostate 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 prostate 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, prostate 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 $\geq 30\%$ 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.

Prostate cancer case definitions for this report utilized the current NAACCR Standard Site Analysis Categories⁵. For prostate incidence, this includes ICD-O-3 Code C619, all histologies except 9590-9989, 9050-9055, and 9140. For prostate mortality, this includes ICD-9 Code 185 and ICD-10 Code C61.

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 persist 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.

PROSTATE CANCER MORTALITY

PROSTATE CANCER MORTALITY

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

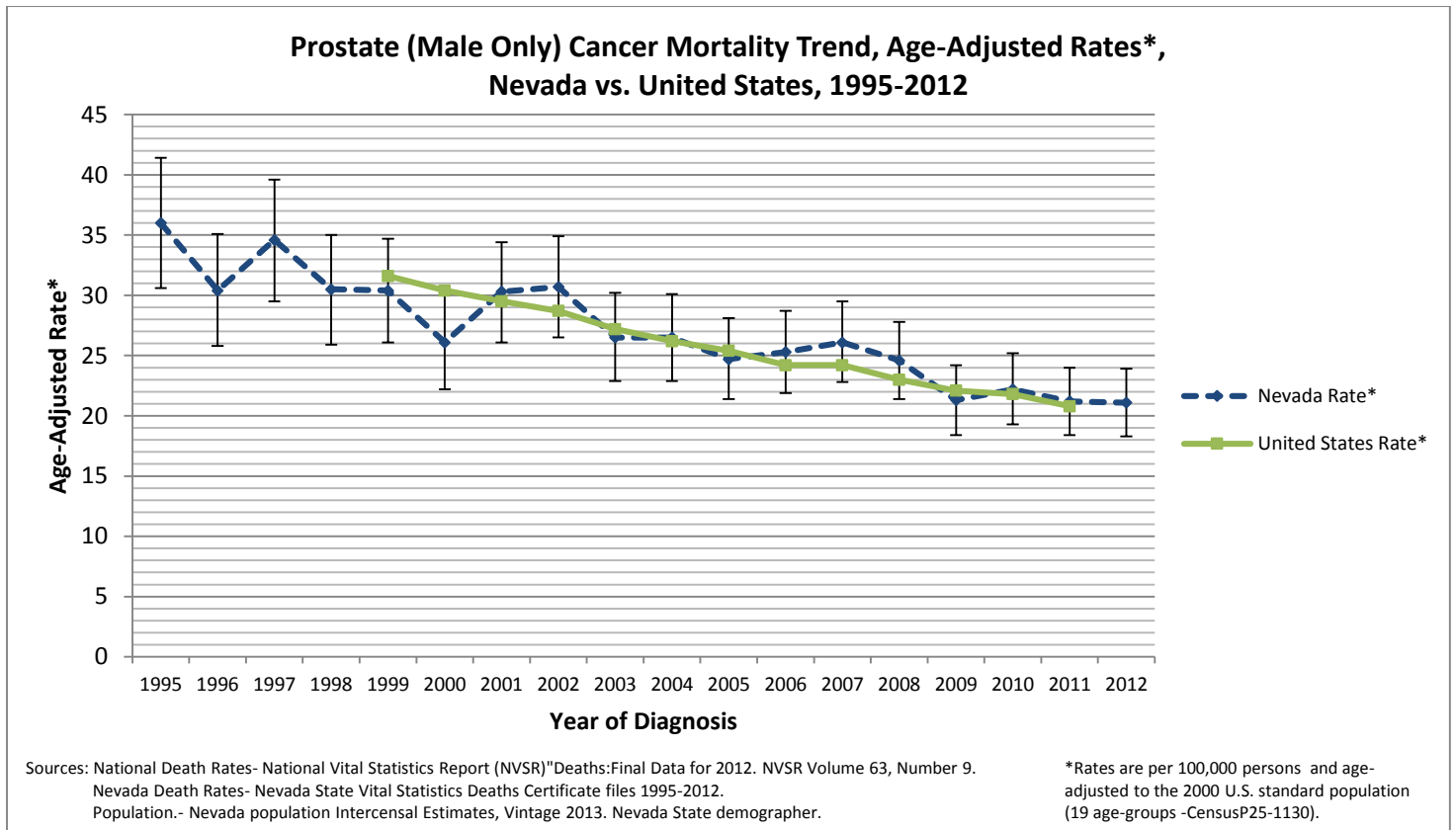


Table 1: Prostate (Male Only) Cancer Mortality Age-Adjusted Rates* by year, Nevada and United States, 1995-2012.

	1995	1996	1997	1998	1999	2000	2001	2002	2003
Nevada	36.0 (30.6-41.4)	30.4 (25.7-35.0)	34.6 (29.6-39.7)	30.5 (26.0-35.1)	30.4 (26.1-34.7)	26.1 (22.2-30.0)	30.3 (26.2-34.5)	30.7 (26.5-34.9)	26.5 (22.8-30.1)
United States					31.6 (31.2-31.9)	30.4 (30.1-30.7)	29.5 (29.2-29.9)	28.7 (28.4-29.0)	27.2 (26.9-27.5)

	2004	2005	2006	2007	2008	2009	2010	2011	2012
Nevada	26.5 (22.9-30.1)	24.7 (21.3-28.0)	25.3 (21.9-28.7)	26.1 (22.7-29.4)	24.6 (21.4-27.8)	21.3 (18.4-24.2)	22.2 (19.2-25.1)	21.2 (18.4-24.0)	21.1 (18.3-23.9)
United States	26.2 (25.9-26.5)	25.4 (25.1-25.7)	24.2 (24.0-24.5)	24.2 (24.0-24.5)	23.0 (22.7-23.3)	22.1 (21.9-22.4)	21.8 (21.6-22.1)	20.8 (20.5-21.0)	

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

PROSTATE CANCER MORTALITY BY GENDER, 2008-2012

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

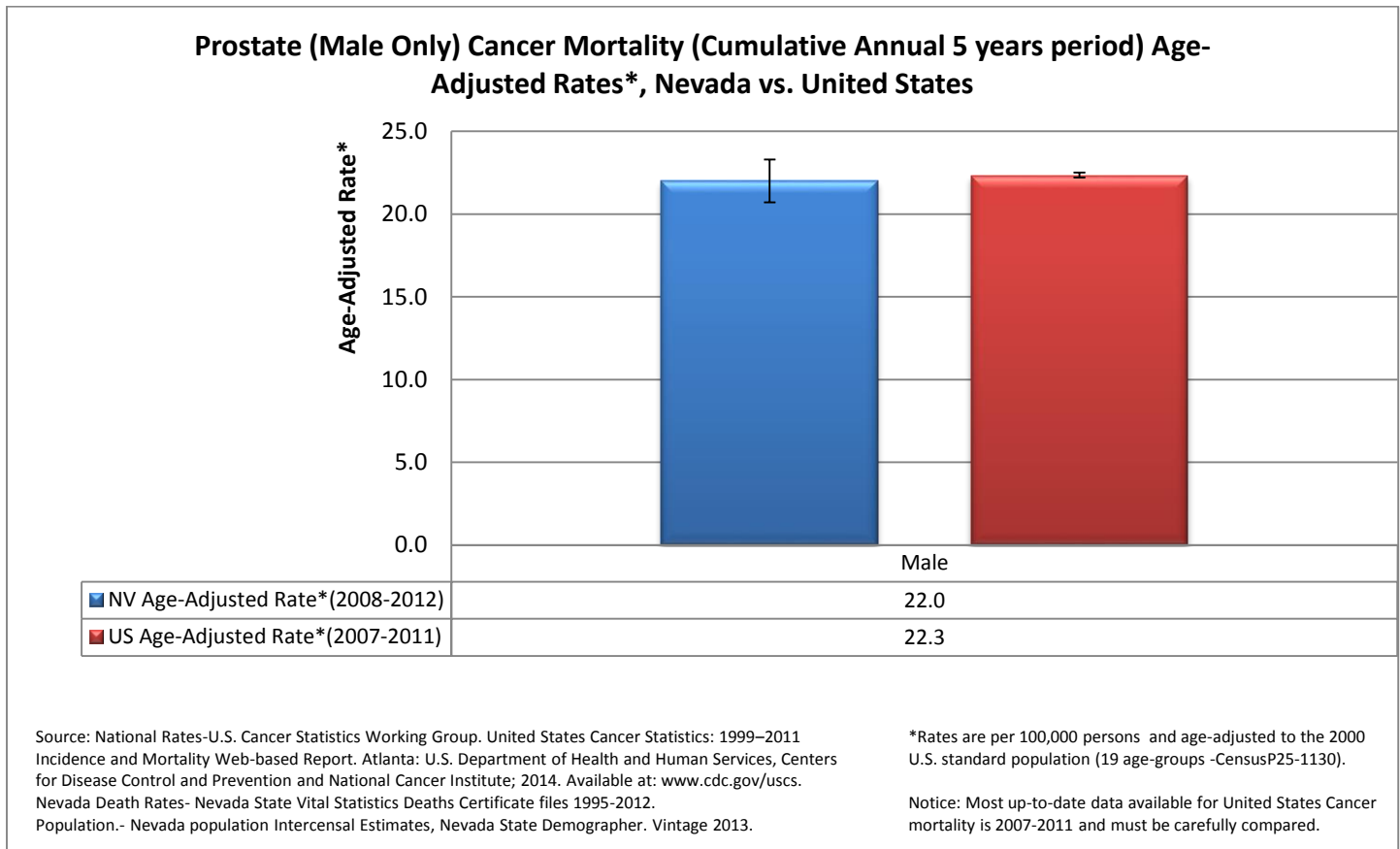


Table 2: Prostate (Male Only) Cancer Mortality by Region and Gender. Cumulative Annual Age-Adjusted Rates* Nevada Geo-demographical Regions.

Prostate (Male 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
Male	20.5 (19.0-22.0)	26.3 (22.6-30.0)	34.5 (24.4-44.6)	22.8 (19.2-26.4)

‡ 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.

PROSTATE CANCER MORTALITY TREND BY RACE/ETHNICITY

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

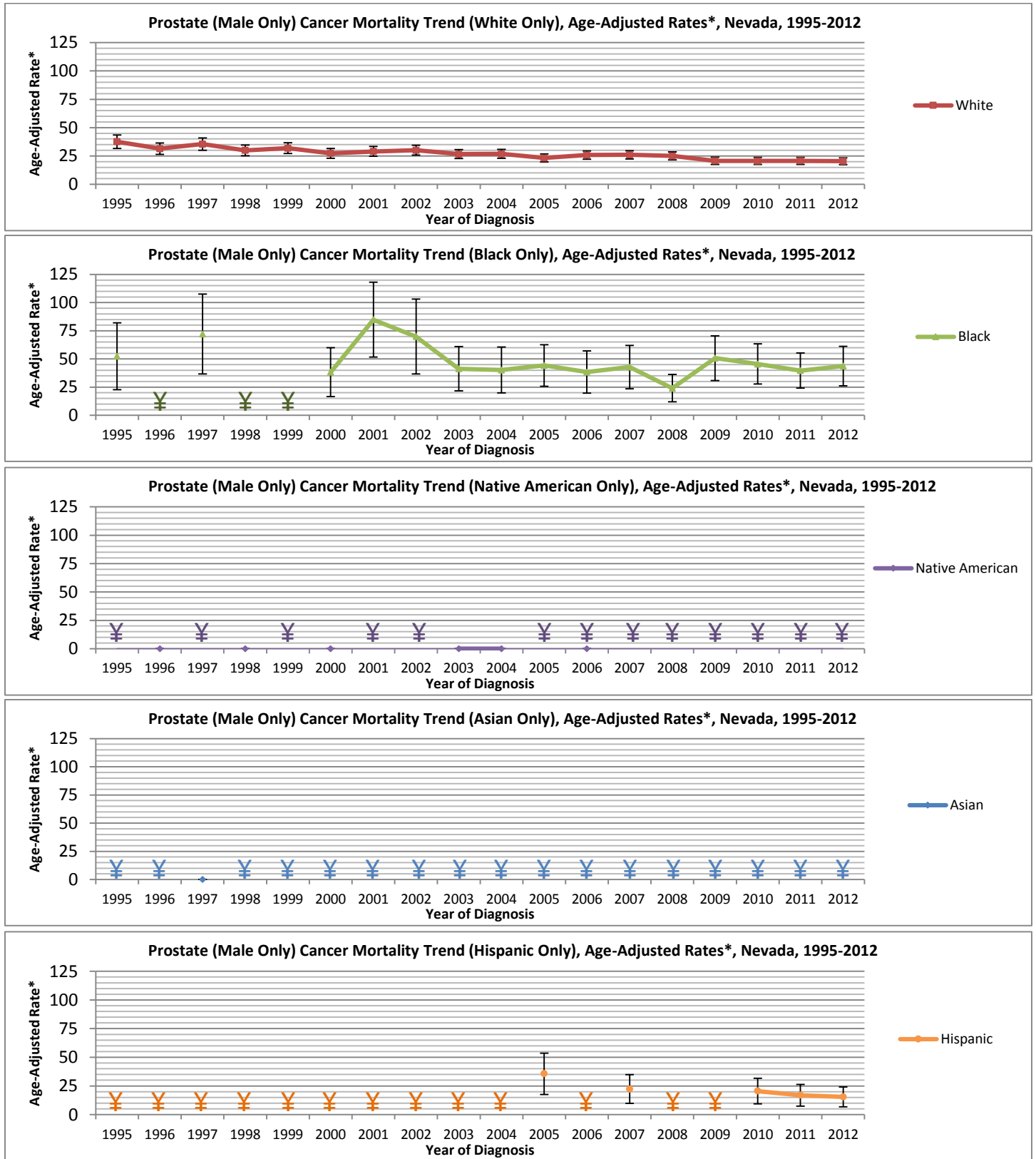


Figure 4: Prostate (Male Only) Cancer Mortality Trend by Race/Ethnicity, Age-Adjusted Rates*, United States, 1999-2011.

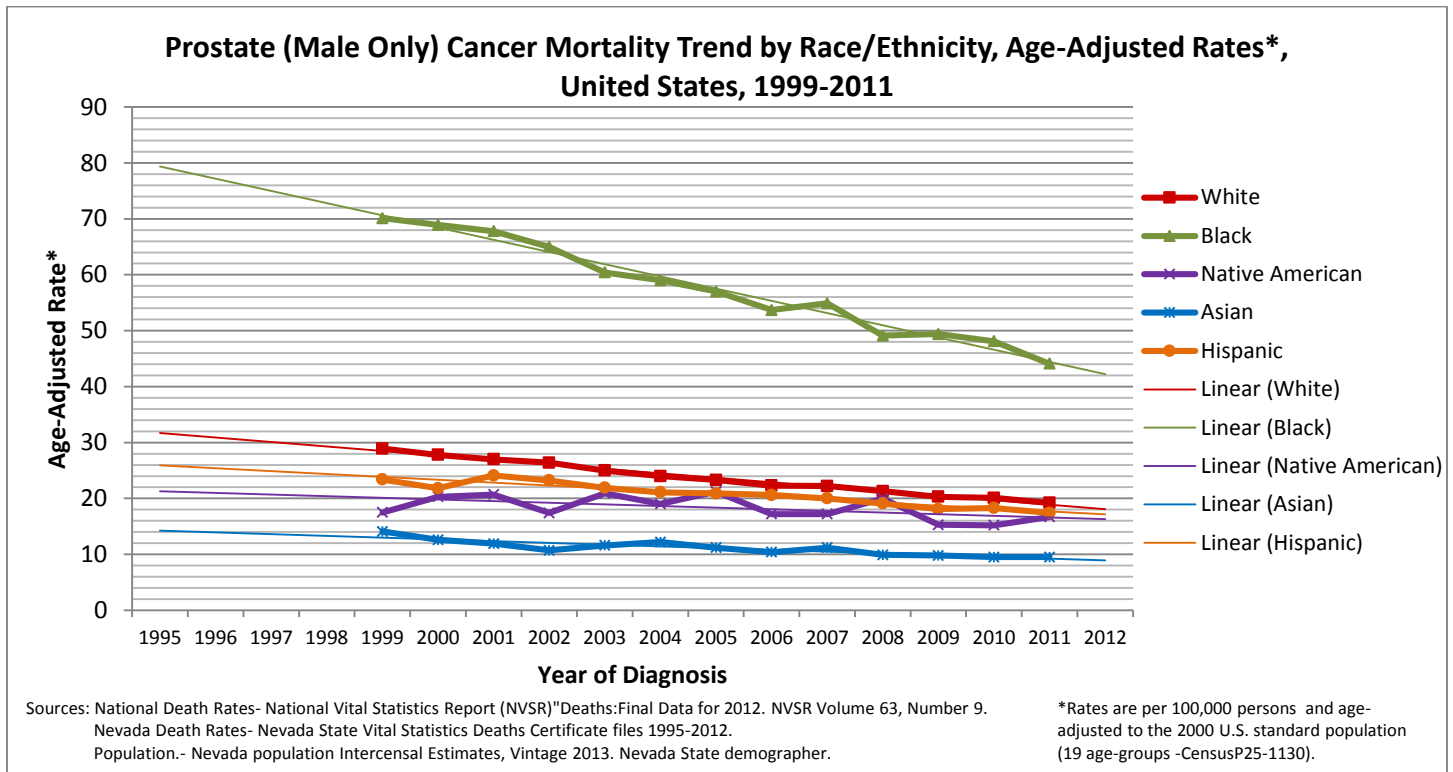


Table 3: Prostate (Male Only) Cancer Mortality Annual Age-Adjusted Rates* by Race/Ethnicity, Nevada, 1995-2012.

Nevada	1995	1996	1997	1998	1999	2000	2001	2002	2003
White	37.6 (31.6-43.5)	31.5 (26.4-36.5)	35.5 (30.0-40.9)	30.0 (25.2-34.7)	31.9 (27.1-36.6)	27.3 (23.0-31.6)	29.0 (24.7-33.4)	30.1 (25.7-34.4)	26.6 (22.7-30.6)
Black	52.5 (22.8-82.1)	¥	72.2 (36.8-107.6)	¥	¥	38.3 (16.6-60.0)	84.9 (51.6-118.2)	69.9 (36.7-103.1)	41.3 (21.7-61.0)
Native American	¥	0	¥	0	¥	0	¥	¥	0
Asian	¥	¥	0	¥	¥	¥	¥	¥	¥
Hispanic	¥	¥	¥	¥	¥	¥	¥	¥	¥

Nevada	2004	2005	2006	2007	2008	2009	2010	2011	2012
White	26.8 (22.9-30.8)	23.2 (19.7-26.7)	25.8 (22.1-29.5)	26.0 (22.4-29.6)	25.0 (21.5-28.6)	20.7 (17.6-23.9)	20.6 (17.5-23.7)	20.7 (17.6-23.8)	20.4 (17.4-23.4)
Black	40.2 (19.9-60.6)	44.2 (25.7-62.7)	38.4 (19.6-57.2)	42.8 (23.6-62.1)	24.0 (11.9-36.2)	50.7 (30.8-70.6)	45.5 (27.7-63.4)	39.7 (24.1-55.3)	43.7 (26.2-61.2)
Native American	0	¥	0	¥	¥	¥	¥	¥	¥
Asian	¥	¥	¥	¥	¥	¥	¥	¥	¥
Hispanic	¥	35.6 (17.6-53.6)	¥	22.2 (9.7-34.8)	¥	¥	20.5 (9.4-31.6)	16.9 (7.3-26.4)	15.4 (6.7-24.1)

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

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

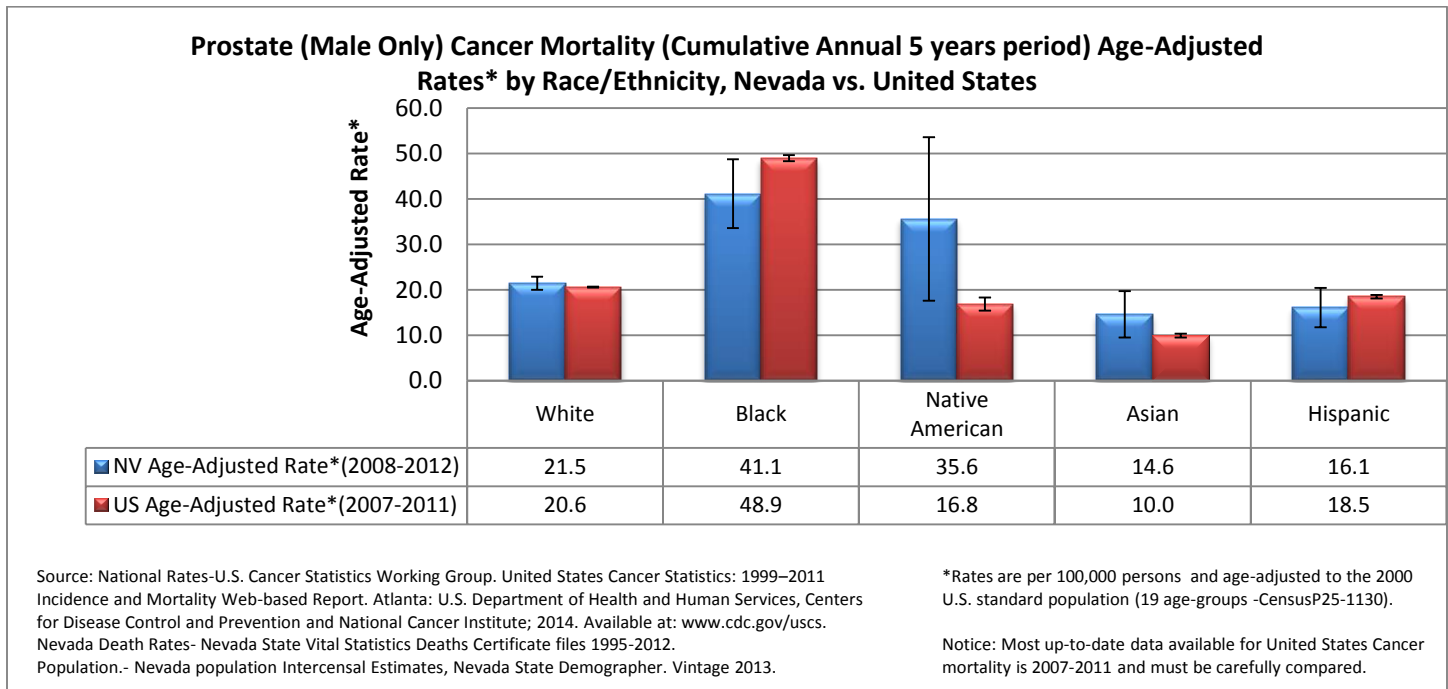
United States	1995	1996	1997	1998	1999	2000	2001	2002	2003
White					28.9 (28.6-29.3)	27.8 (27.4-28.1)	27.0 (26.6-27.3)	26.4 (26.0-26.7)	25.0 (24.7-25.3)
Black					70.1 (68.2-72.1)	68.9 (67.0-70.8)	67.8 (65.9-69.7)	65.0 (63.1-66.9)	60.4 (58.6-62.2)
Native American					17.5 (13.2-22.5)	20.3 (16.1-25.1)	20.7 (16.4-25.6)	17.4 (13.6-21.7)	20.9 (16.7-25.6)
Asian					14.1 (12.5-15.8)	12.6 (11.1-14.1)	11.9 (10.6-13.4)	10.7 (9.5-12.0)	11.6 (10.3-12.9)
Hispanic					23.4 (21.9-25.0)	21.8 (20.5-23.3)	24.1 (22.7-25.5)	23.2 (21.9-24.7)	21.9 (20.6-23.3)

United States	2004	2005	2006	2007	2008	2009	2010	2011	2012
White	24.0 (23.7-24.4)	23.3 (23.0-23.6)	22.3 (22.0-22.6)	22.2 (21.9-22.5)	21.3 (21.1-21.6)	20.3 (20.1-20.6)	20.1 (19.8-20.4)	19.2 (19.0-19.5)	
Black	59.0 (57.3-60.8)	57.0 (55.3-58.7)	53.7 (52.1-55.4)	54.9 (53.3-56.5)	49.1 (47.6-50.6)	49.4 (47.9-50.8)	48.1 (46.7-49.5)	44.1 (42.7-45.4)	
Native American	19.0 (15.1-23.3)	21.2 (17.1-25.7)	17.2 (13.8-21.1)	17.2 (13.8-21.0)	20.0 (16.4-23.9)	15.3 (12.4-18.7)	15.2 (12.4-18.5)	16.7 (13.7-20.0)	
Asian	12.2 (10.9-13.5)	11.2 (10.0-12.4)	10.4 (9.4-11.6)	11.2 (10.2-12.4)	9.9 (8.9-11.0)	9.8 (8.8-10.8)	9.5 (8.6-10.5)	9.5 (8.6-10.4)	
Hispanic	21.1 (19.9-22.3)	20.9 (19.7-22.1)	20.6 (19.4-21.7)	20.0 (19.0-21.1)	19.1 (18.1-20.2)	18.1 (17.2-19.1)	18.3 (17.3-19.2)	17.4 (16.5-18.3)	

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

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

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



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

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

Prostate (Male 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	19.2 (17.6-20.9)	27.0 (22.9-31.0)	36.2 (25.5-46.9)	23.0 (19.2-26.8)
Black	42.1 (34.1-50.0)	¥	0	¥
Native American	¥	¥	¥	¥
Asian	14.1 (8.7-19.6)	¥	0	¥
Hispanic	16.2 (11.2-21.2)	¥	0	¥
All Races/Ethnicities	20.5 (19.0-22.0)	26.3 (22.6-30.0)	34.5 (24.4-44.6)	22.8 (19.2-26.4)

¥ 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.

PROSTATE MORTALITY TREND BY AGE GROUPS, 1995-2012

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

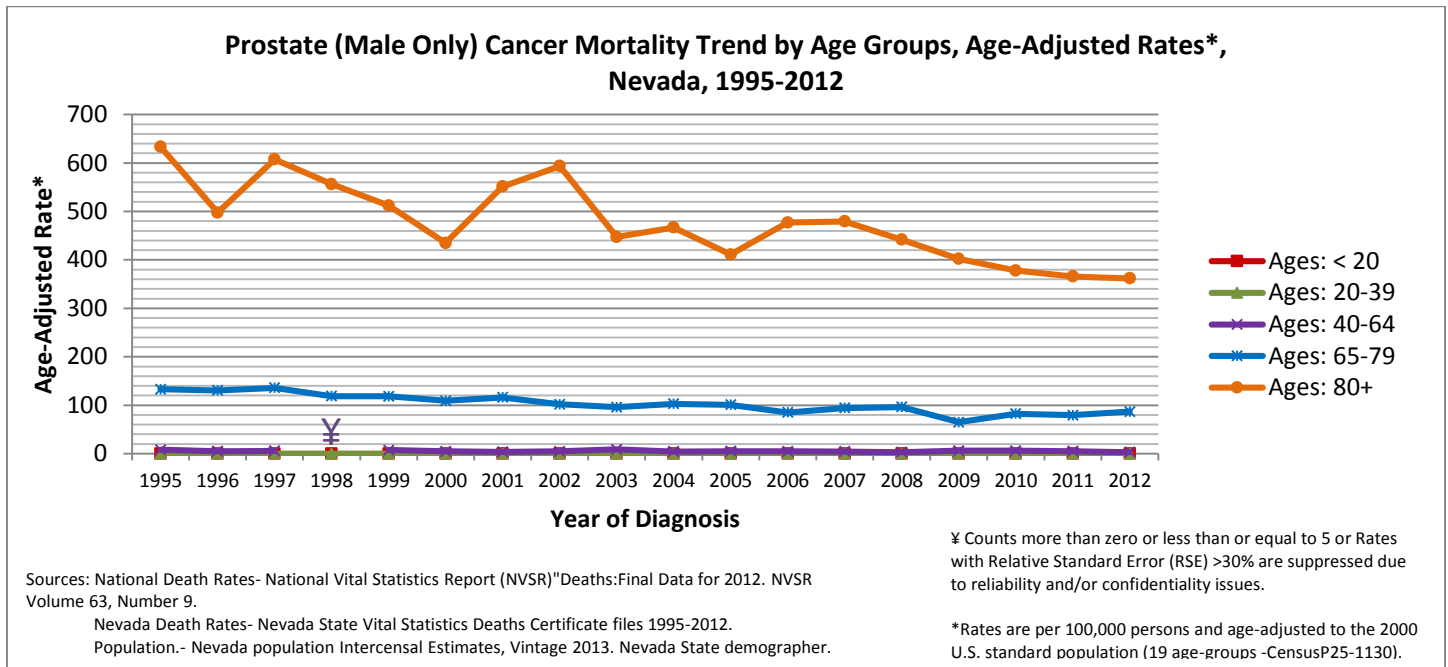


Table 6: Prostate (Male Only) Cancer Mortality Annual Age-Adjusted Rates* by Age Groups, Nevada, 1995-2012.

Nevada	1995	1996	1997	1998	1999	2000	2001	2002	2003
< 20	0	0	0	0	0	0	0	0	0
20 - 39	0	0	0	0	0	0	0	0	0
40 - 64	8.1 (4.6-11.7)	5.3 (2.5-8.1)	5.7 (2.9-8.5)	‡	7.6 (4.6-10.7)	4.8 (2.5-7.2)	3.7 (1.7-5.8)	4.7 (2.5-6.9)	8.7 (5.7-11.7)
65 - 79	133.1 (105.5-160.8)	130.7 (104.1-157.3)	135.9 (109.0-162.8)	118.8 (94.5-143.0)	118.5 (94.8-142.2)	109.1 (87.0-131.1)	116.2 (93.6-138.9)	101.9 (80.9-122.8)	95.8 (75.6-115.9)
80 +	633.6 (475.9-791.3)	497.5 (367.2-627.8)	607.5 (463.1-751.9)	556.3 (428.7-683.9)	512.1 (394.7-629.6)	434.9 (325.8-544.0)	551.5 (436.3-666.8)	593.5 (478.3-708.7)	447.5 (351.2-543.8)

Nevada	2004	2005	2006	2007	2008	2009	2010	2011	2012
< 20	0	0	0	0	0	0	0	0	0
20 - 39	0	0	0	0	0	0	0	0	0
40 - 64	4.5 (2.4-6.5)	5.1 (3.0-7.3)	4.8 (2.8-6.9)	4.4 (2.5-6.3)	3.0 (1.4-4.6)	6.1 (3.9-8.3)	6.1 (4.0-8.3)	5.3 (3.4-7.3)	3.2 (1.7-4.7)
65 - 79	102.9 (82.7-123.2)	100.8 (80.9-120.6)	85.0 (66.9-103.1)	94.2 (75.5-113.0)	96.4 (77.8-115.1)	65.0 (50.1-79.9)	82.5 (65.7-99.4)	79.3 (62.9-95.7)	86.8 (70.2-103.4)
80 +	466.9 (371.5-562.3)	411.1 (326.2-496.0)	477.2 (387.6-566.8)	479.3 (392.4-566.1)	441.8 (358.5-525.1)	402.2 (324.5-479.8)	378 (303.9-452.1)	365.7 (294.0-437.3)	361.8 (290.9-432.8)

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

PROSTATE CANCER MORTALITY BY AGE GROUPS, 2008-2012

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

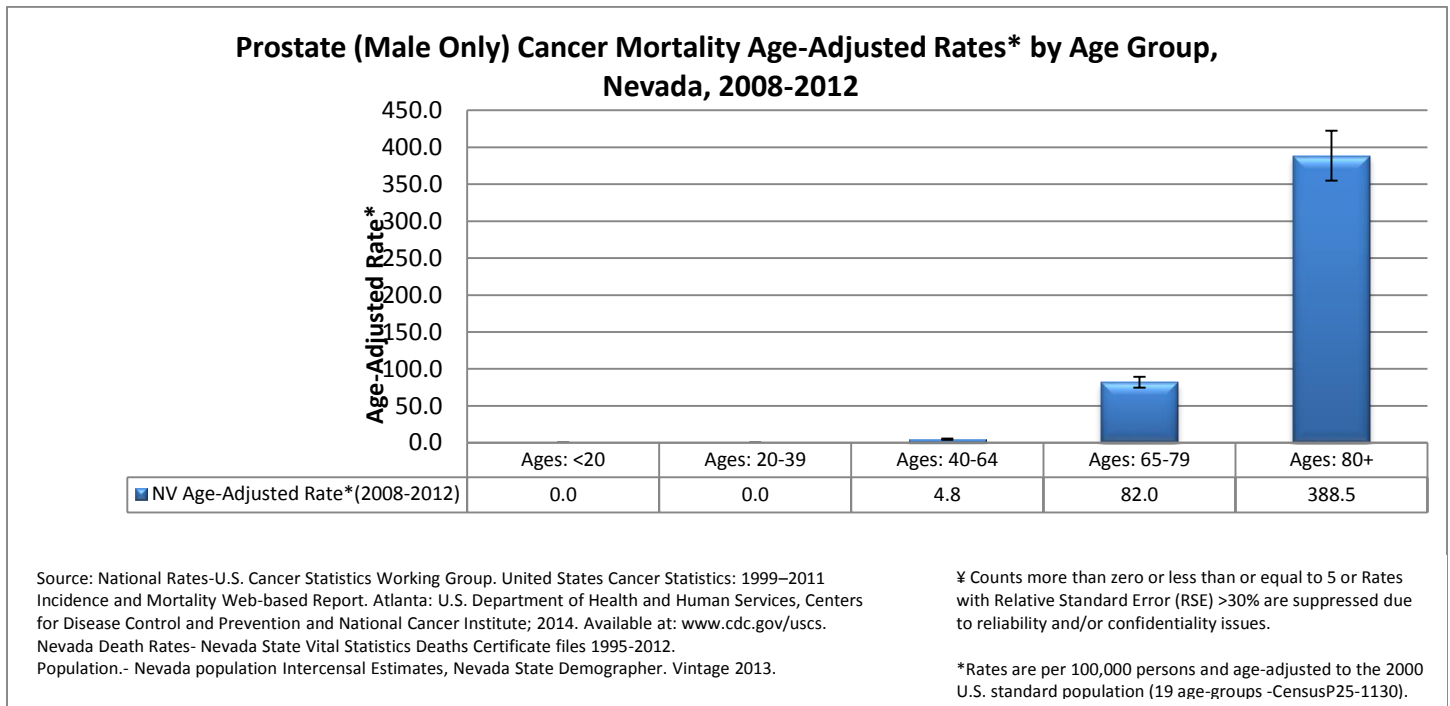


Table 7: Prostate (Male Only) Cancer Mortality by Region and by Age Groups, Age-Adjusted Rates*, Nevada Geo-demographical Regions, 2008-2012

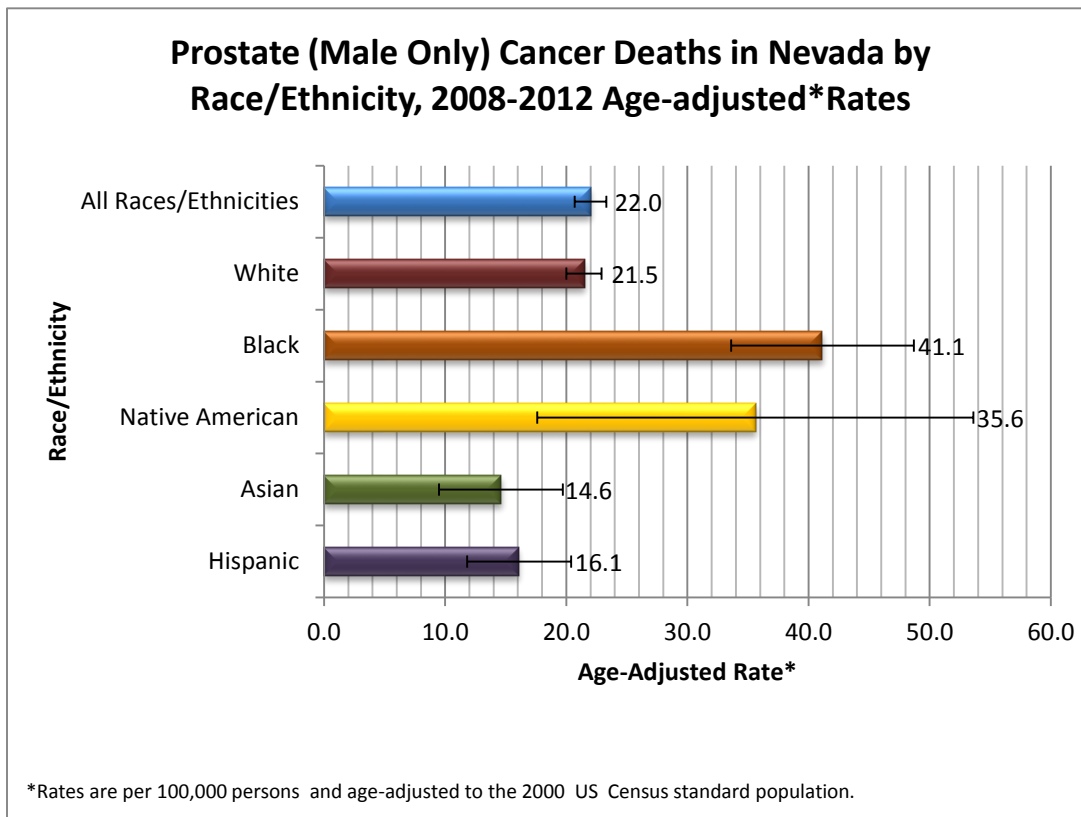
Prostate (Male Only) Cancer Mortality (All Races) by Age Group - Age-Adjusted Rates*, 2008-2012 (Regions ordered by population size)				
Age Groups	Clark	Washoe	Carson City	Rural
< 20	0	0	0	0
20 - 39	0	0	0	0
40 - 64	4.3 (3.3-5.3)	5.8 (3.5-8.2)	¥	4.0 (1.7-6.2)
65 - 79	76.5 (67.9-85.1)	111.3 (87.9-134.6)	137.7 (68.0-207.4)	72.4 (53.9-90.8)
80 +	362.4 (323.1-401.6)	424.9 (331.8-518.0)	509.0 (291.3-726.7)	446.2 (350.2-542.2)
All Ages	20.5 (19.0-22.0)	26.3 (22.6-30.0)	34.5 (24.4-44.6)	22.8 (19.2-26.4)

¥ 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.

PROSTATE CANCER MORTALITY SNAPSHOT

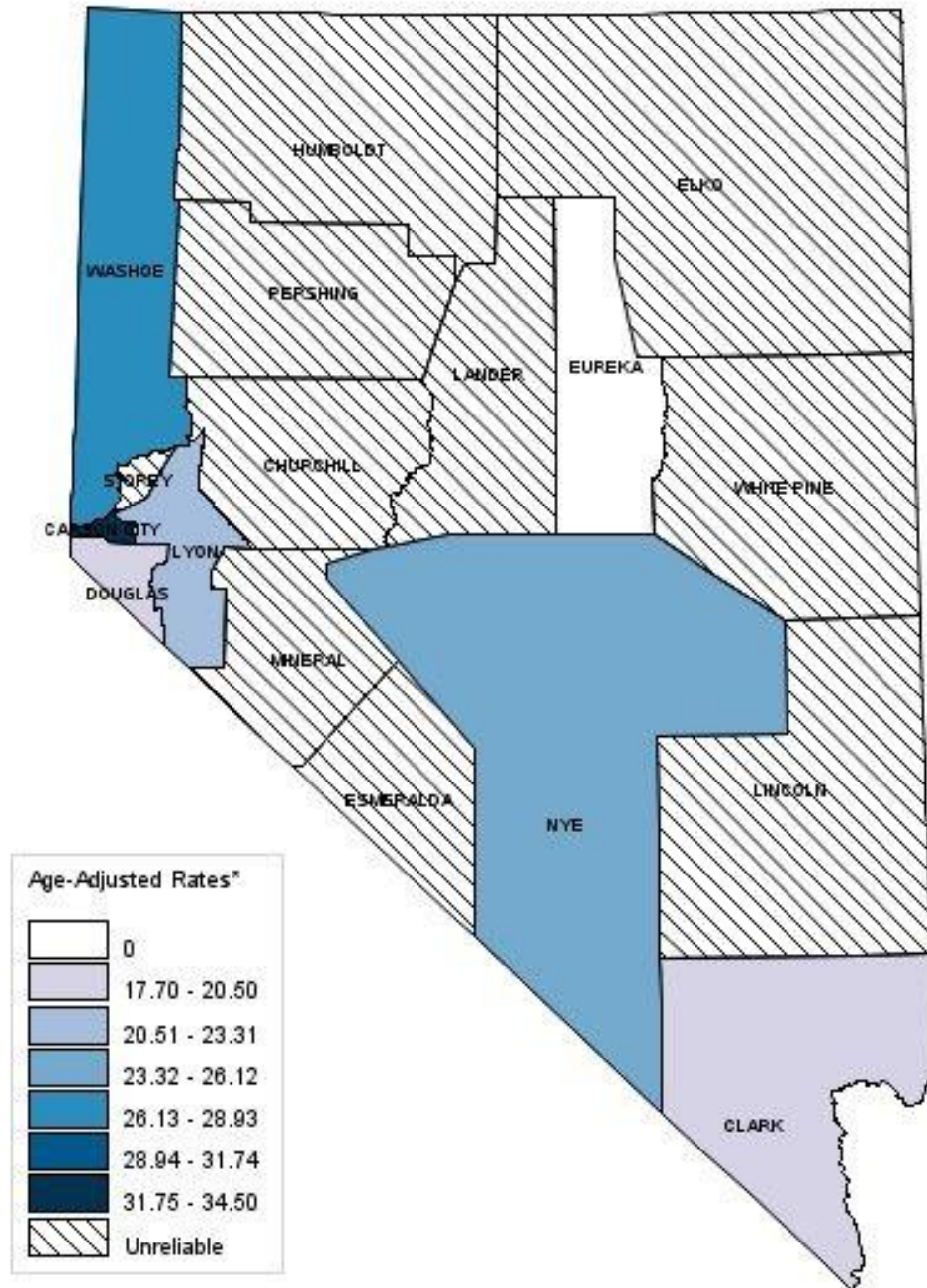
Table 8: Prostate (Male Only) Cancer Mortality Causes Annual Age-Adjusted Rates* by Race/Ethnicity, Nevada, 2008-2012.



PROSTATE CANCER MORTALITY BY GEOGRAPHICAL DISTRIBUTION

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

Nevada Prostate 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: Prostate (Male Only) Cancer Mortality by County, Age-Adjusted Rates*, Nevada, 2008-2012.

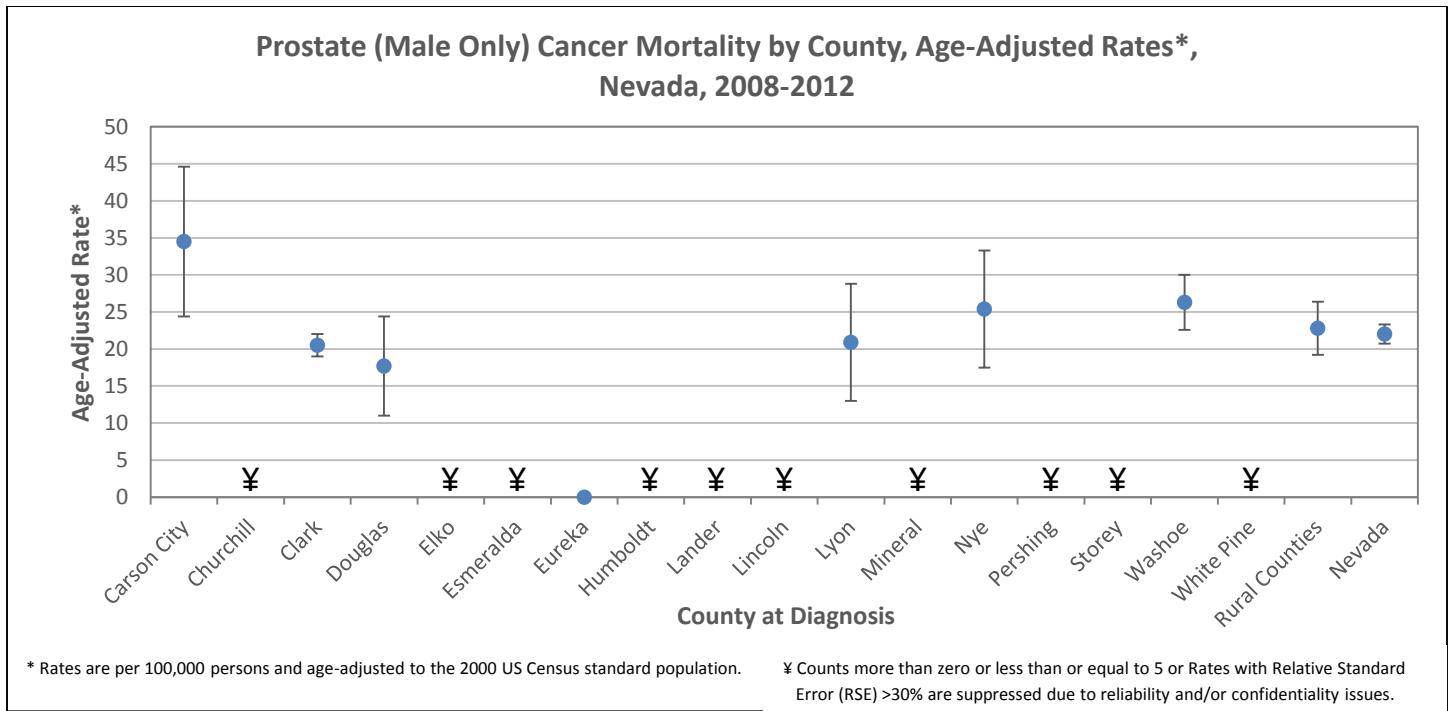


Table 9: Prostate (Male Only) Cancer Mortality Cumulative Annual Age-Adjusted Rates* by County, Nevada, 2008-2012.

Nevada Prostate (Male Only) Cancer Mortality (All Ages, All Races) by County - Counts/Age-Adjusted Rates*, 2008-2012		
County	Counts	Age Adj. Rate*
Carson City	45	34.5 (24.4-44.6)
Churchill	10	¥
Clark	704	20.5 (19.0-22.0)
Douglas	27	17.7 (11.0-24.4)
Elko	11	¥
Esmeralda	¥	¥
Eureka	0	0
Humboldt	8	¥
Lander	¥	¥
Lincoln	¥	¥
Lyon	27	20.9 (13.0-28.8)
Mineral	9	¥
Nye	40	25.4 (17.5-33.3)
Pershing	¥	¥
Storey	¥	¥
Washoe	191	26.3 (22.6-30.0)
White Pine	6	¥
Rural Counties	154	22.8 (19.2-26.4)

¥ 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.

PROSTATE CANCER INCIDENCE

PROSTATE CANCER INCIDENCE

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

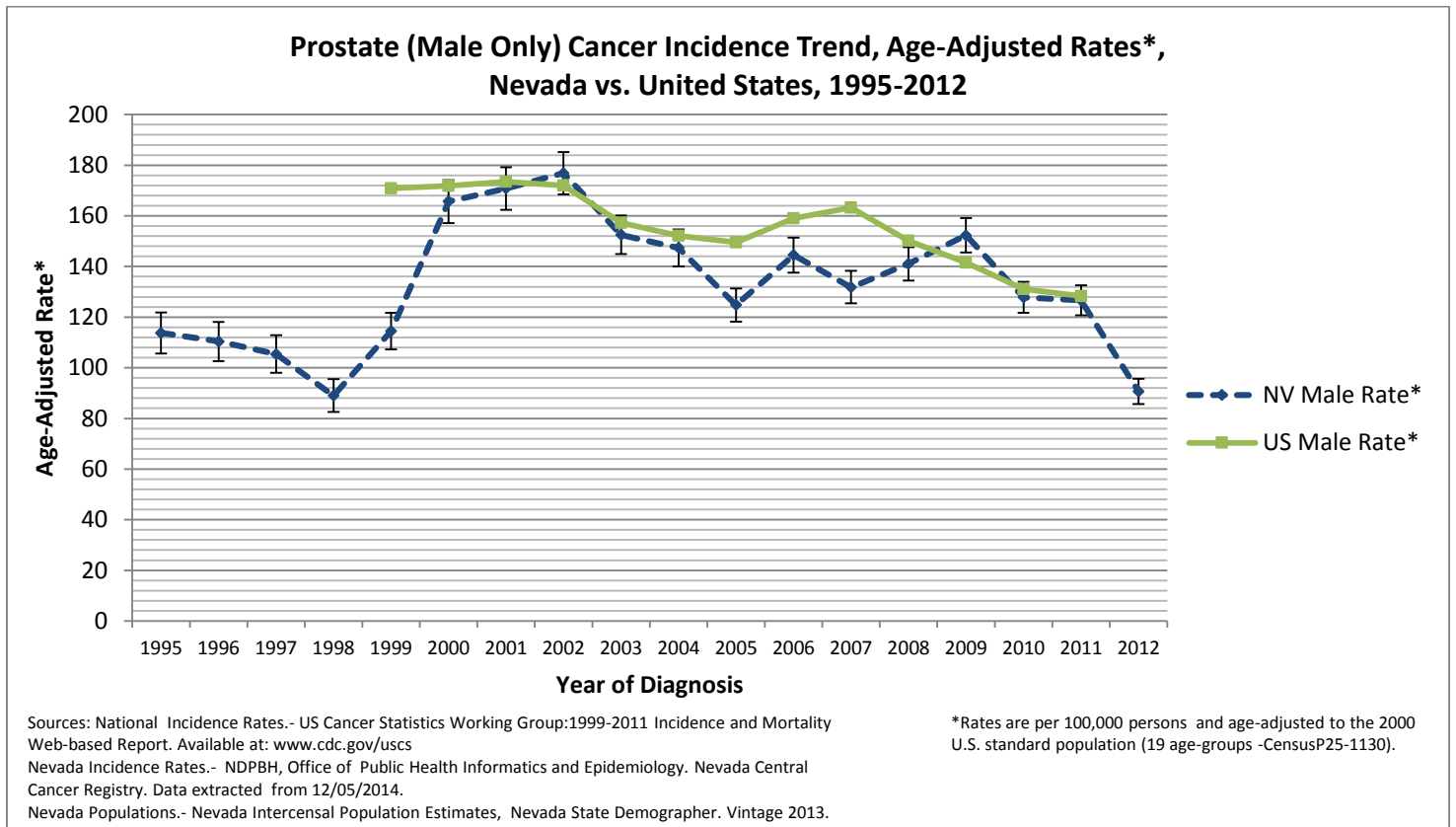


Table 10: Prostate (Male Only) Cancer Incidence Age-Adjusted Rates* by year, Nevada and United States, 1995-2012.

	1995	1996	1997	1998	1999	2000	2001	2002	2003
Nevada	113.8 (105.7-122.0)	110.4 (102.7-118.1)	105.4 (97.9-112.8)	89.0 (82.5-95.5)	114.5 (107.3-121.7)	165.7 (157.3-174.2)	170.8 (162.4-179.2)	176.9 (168.6-185.3)	152.5 (144.9-160.1)
United States					170.8 (170.1-171.6)	171.9 (171.1-172.7)	173.5 (172.7-174.3)	172.0 (171.2-172.8)	157.3 (156.6-158.0)

	2004	2005	2006	2007	2008	2009	2010	2011	2012
Nevada	147.4 (140.1-154.7)	124.8 (118.3-131.4)	144.5 (137.6-151.4)	131.8 (125.3-138.2)	141.1 (134.6-147.7)	152.3 (145.5-159.0)	127.8 (121.7-133.9)	126.6 (120.6-132.5)	90.7 (85.8-95.7)
United States	152.2 (151.6-152.9)	149.5 (148.9-150.2)	159.0 (158.3-159.6)	163.2 (162.5-163.8)	150.1 (149.5-150.7)	141.5 (140.9-142.1)	131.1 (130.5-131.7)	128.3 (127.8-128.9)	

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

PROSTATE CANCER INCIDENCE BY GENDER, 2008-2012

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

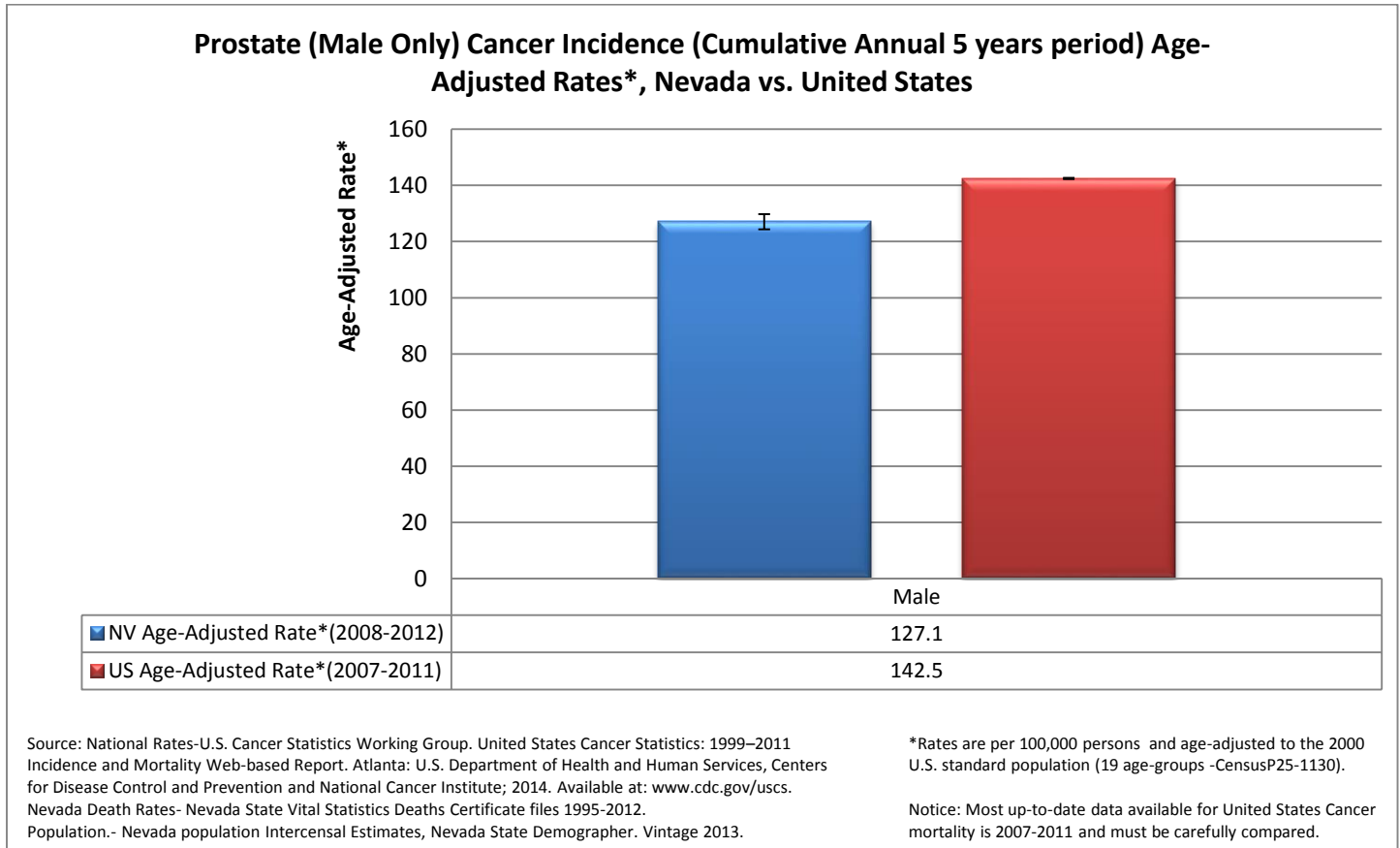


Table 11: Prostate (Male Only) Cancer Incidence by Region and Gender. Cumulative Annual Age-Adjusted Rates* Nevada Geo-demographical Regions.

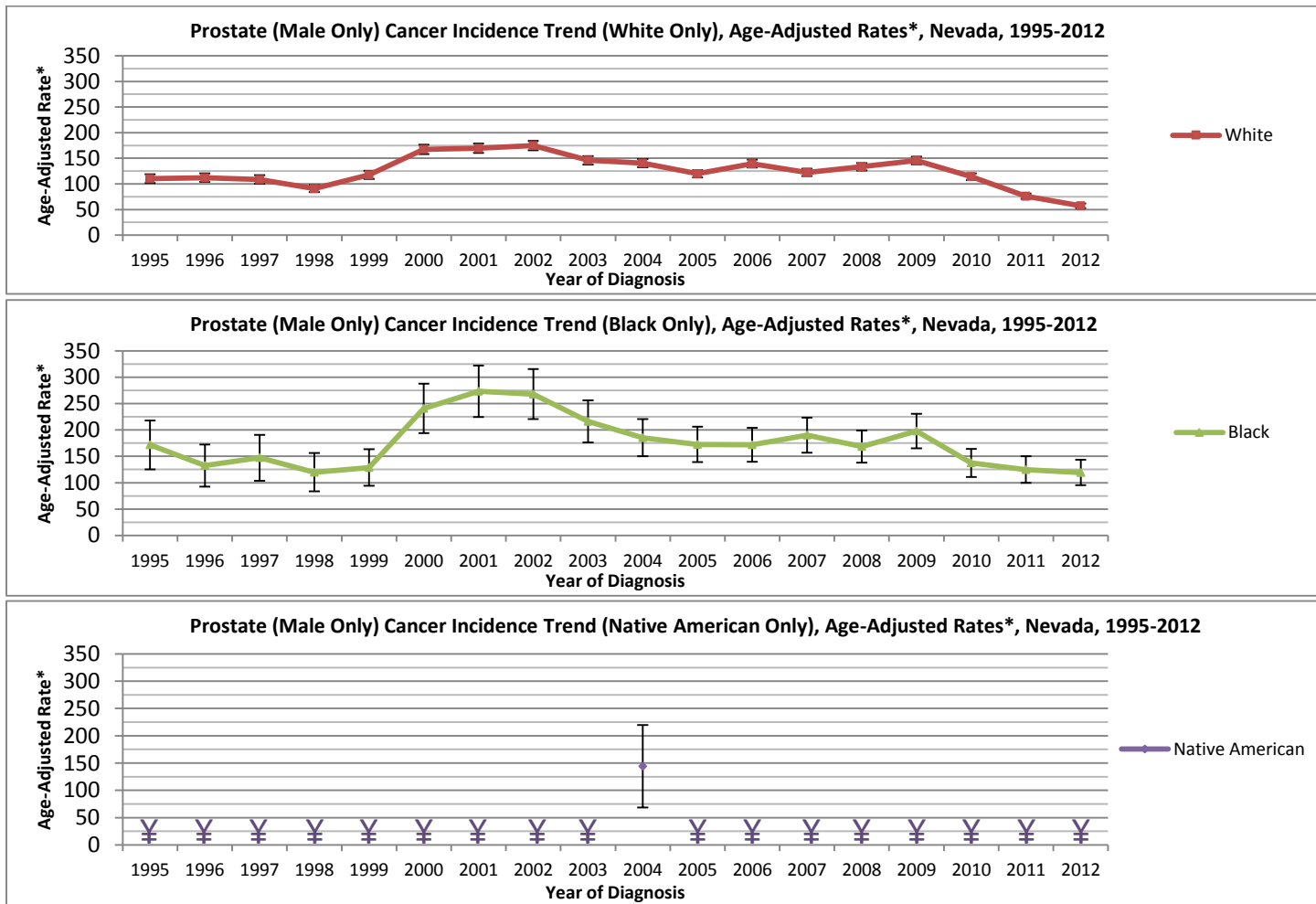
Prostate (Male Only) Cancer Incidence (All Ages, All Races) by Region - Age-Adjusted Rates*, Nevada, 2008-2012 (Regions ordered by population size)				
Gender	Clark	Washoe	Carson City	Rural
Male	126.5 (123.2-129.7)	141.7 (134.4-149.1)	142.5 (123.1-161.9)	109.6 (102.7-116.4)

¥ 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.

PROSTATE CANCER INCIDENCE TREND BY RACE/ETHNICITY

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



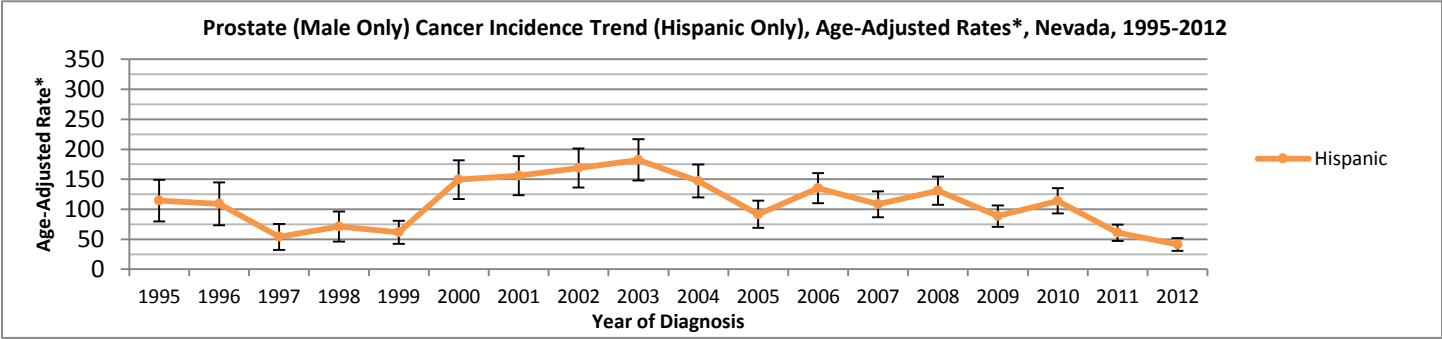
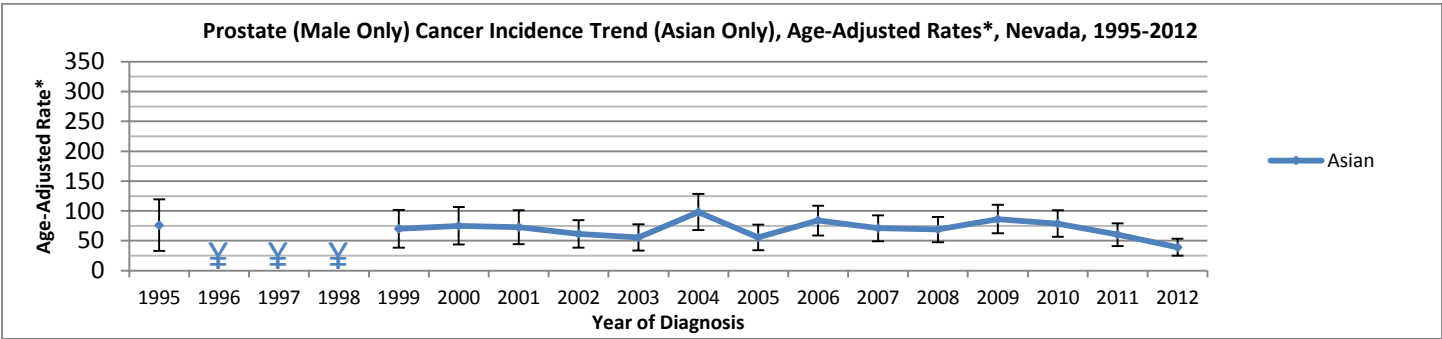
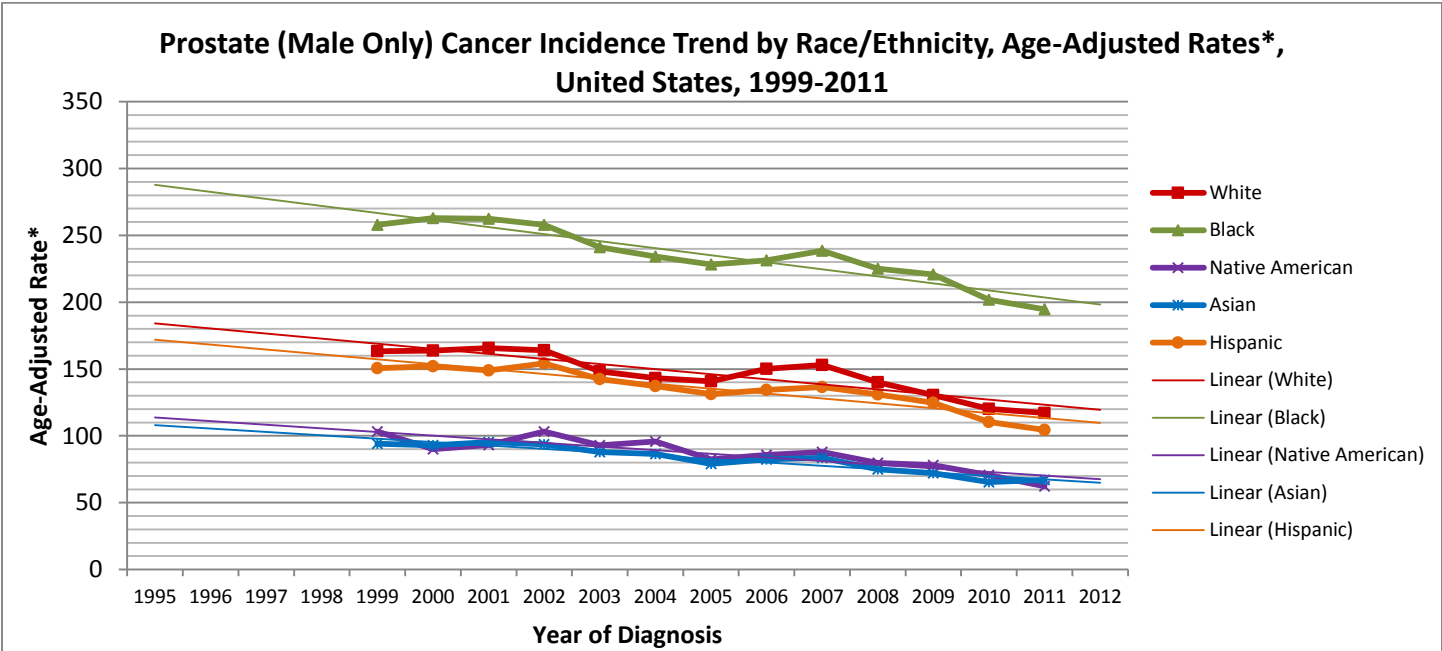


Figure 13: Prostate (Male Only) Cancer Incidence Trend by Race/Ethnicity, Age-Adjusted Rates*, United States, 1999-2011.



Sources: National Death Rates- National Vital Statistics Report (NVSr)"Deaths:Final Data for 2012. NVSR Volume 63, Number 9. Nevada Death Rates- Nevada State Vital Statistics Deaths Certificate files 1995-2012. Population.- Nevada population Intercensal Estimates, Vintage 2013. Nevada State demographer.

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

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

Nevada	1995	1996	1997	1998	1999	2000	2001	2002	2003
White	110.3 (101.7-118.9)	112.2 (103.9-120.6)	108.7 (100.6-116.9)	90.8 (83.8-97.9)	117.9 (109.9-125.8)	167.2 (158.0-176.5)	169.9 (160.7-179.0)	174.9 (165.8-184.0)	146.0 (137.8-154.1)
Black	171.7 (125.5-218.0)	132.4 (92.4-172.4)	147.2 (103.7-190.7)	119.9 (83.7-156.2)	128.7 (94.1-163.4)	241.0 (194.2-287.8)	273.4 (224.7-322.1)	268.2 (220.6-315.8)	216.4 (176.4-256.5)
Native American	¥	¥	¥	¥	¥	¥	¥	¥	¥
Asian	76.2 (33.1-119.4)	¥	¥	¥	70.2 (38.7-101.8)	75.1 (43.7-106.5)	72.6 (44.2-101.1)	61.5 (38.3-84.7)	55.6 (33.8-77.4)
Hispanic	114.4 (79.8-149.0)	109.2 (73.5-144.9)	54.1 (32.5-75.7)	71.0 (46.0-96.1)	61.6 (42.5-80.7)	149.4 (117.3-181.5)	155.9 (123.3-188.5)	168.8 (136.4-201.3)	182.3 (147.9-216.7)

Nevada	2004	2005	2006	2007	2008	2009	2010	2011	2012
White	140.6 (132.7-148.5)	119.7 (112.7-126.8)	139.6 (132.1-147.1)	122.5 (115.6-129.4)	133.5 (126.4-140.6)	145.4 (138.1-152.8)	114.0 (107.6-120.5)	75.8 (70.6-81.0)	57.0 (52.5-61.5)
Black	185.4 (150.3-220.5)	172.7 (139.4-206.1)	171.9 (139.6-204.1)	190.3 (157.1-223.6)	168.7 (138.2-199.1)	198.1 (165.4-230.7)	137.5 (110.9-164.0)	124.9 (99.8-150.0)	119.3 (95.1-143.6)
Native American	144.0 (68.6-219.5)	¥	¥	¥	¥	¥	¥	¥	¥
Asian	98.2 (67.8-128.6)	55.6 (34.2-76.9)	83.8 (59.0-108.6)	71.1 (49.3-92.8)	68.8 (47.7-89.8)	86.3 (62.6-110.0)	78.9 (56.5-101.2)	60.2 (41.1-79.4)	39.2 (24.9-53.4)
Hispanic	147.1 (119.5-174.8)	91.7 (69.2-114.2)	135.2 (110.4-160.1)	108.3 (86.7-129.8)	131.1 (107.5-154.6)	88.7 (70.9-106.6)	114.1 (92.9-135.2)	60.9 (47.3-74.5)	41.2 (30.4-52.0)

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

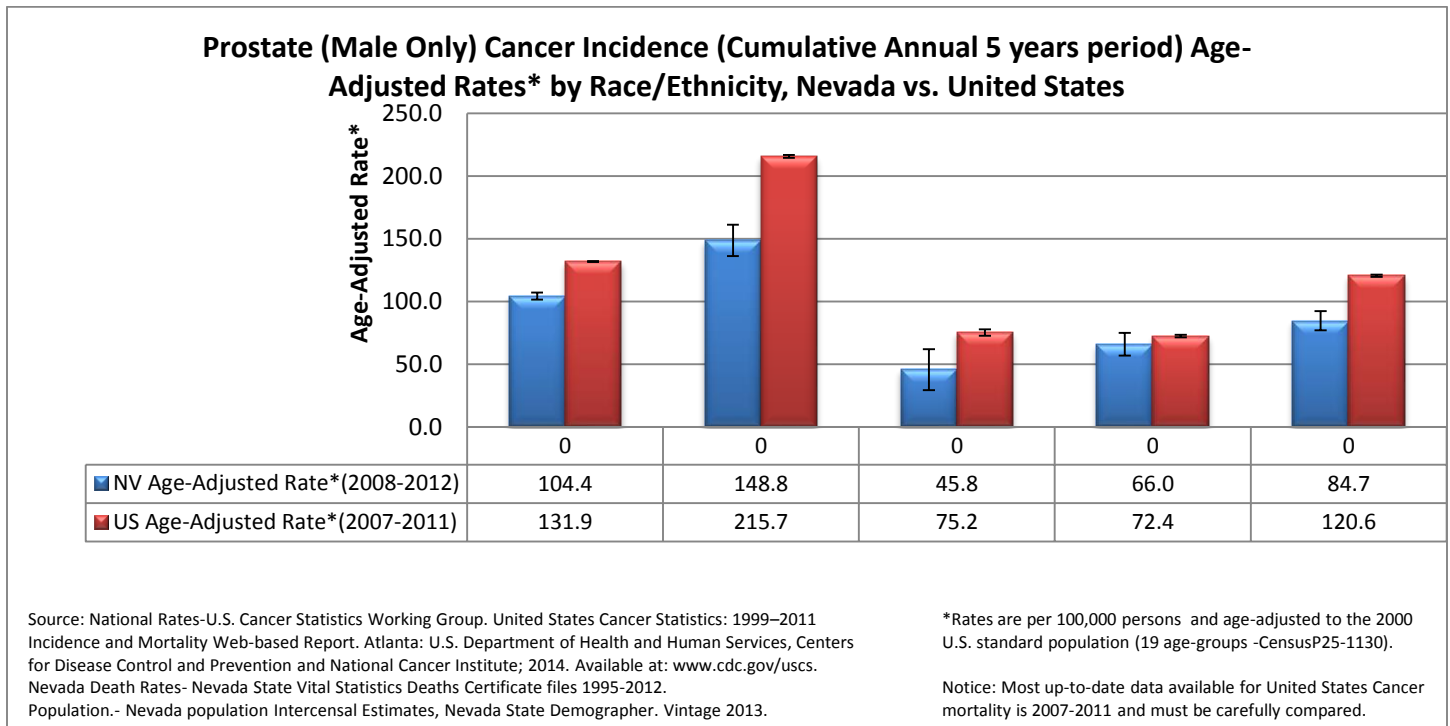
Table 13: Prostate (Male Only) Cancer Incidence Annual Age-Adjusted Rates* by Race/Ethnicity, United States, 1999-2011.

United States	1995	1996	1997	1998	1999	2000	2001	2002	2003
White					163.4 (162.6-164.2)	163.9 (163.1-164.7)	165.7 (164.9-166.5)	164.0 (163.2-164.8)	148.3 (147.6-149.1)
Black					257.8 (254.2-261.4)	263 (259.6-266.5)	262.5 (259.0-266.0)	257.9 (254.5-261.3)	241.2 (238.1-244.3)
Native American					103.2 (93.9-113.0)	90.1 (82.1-98.5)	93.2 (85.3-101.5)	103.3 (95.1-112.0)	93.0 (85.6-100.8)
Asian					94.1 (90.4-97.8)	92.9 (89.5-96.5)	95.4 (92.0-99.0)	93.7 (90.4-97.0)	87.8 (84.8-90.9)
Hispanic					150.6 (147.3-153.9)	152.0 (148.9-155.2)	149.0 (146.0-152.1)	154.3 (151.4-157.4)	142.5 (139.7-145.3)

United States	2004	2005	2006	2007	2008	2009	2010	2011	2012
White	143.3 (142.6-144.0)	140.9 (140.2-141.5)	150.2 (149.5-150.9)	152.9 (152.2-153.6)	140.2 (139.5-140.8)	130.4 (129.8-131.1)	120.3 (119.8-120.9)	117.2 (116.6-117.8)	
Black	234.2 (231.3-237.2)	228.1 (225.2-230.9)	231.3 (228.5-234.1)	238.4 (235.6-241.2)	225.1 (222.4-227.8)	220.7 (218.1-223.3)	201.9 (199.5-204.3)	194.7 (192.4-197.0)	
Native American	95.8 (88.3-103.7)	82.5 (75.9-89.4)	85.7 (79.1-92.7)	87.8 (81.3-94.7)	79.8 (73.8-86.2)	78.2 (72.5-84.3)	70.6 (65.4-76.1)	62.2 (57.4-67.2)	
Asian	86.5 (83.6-89.5)	79.1 (76.4-81.8)	82.3 (79.6-85.1)	83.5 (80.9-86.2)	75.0 (72.6-77.4)	72.1 (69.8-74.4)	65.5 (63.4-67.7)	67.1 (65.0-69.2)	
Hispanic	137.2 (134.6-139.9)	131.2 (128.7-133.8)	134.4 (132.0-136.9)	136.6 (134.2-139.1)	131.0 (128.6-133.3)	124.7 (122.5-126.9)	110.4 (108.5-112.5)	104.4 (102.6-106.3)	

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

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



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

Table 14: Prostate (Male Only) Cancer Incidence by Region and by Race/Ethnicity, Age-Adjusted Rates*, Nevada Geo-demographical Regions, 2008-2012

Prostate (Male Only) Cancer Incidence (All Ages, All Races) by Races - Age-Adjusted Rates*, 2008-2012 (Regions ordered by population size)				
Race/Ethnicity	Clark	Washoe	Carson City	Rural
White	95.4 (92.2-98.6)	138.4 (130.6-146.3)	142.7 (122.4-163.0)	101.0 (94.1-107.9)
Black	148.7 (135.8-161.7)	178.1 (115.4-240.8)	0	¥
Native American	¥	¥	¥	¥
Asian	71.7 (61.4-82.0)	42.3 (22.7-61.8)	0	¥
Hispanic	85.5 (76.8-94.2)	65.5 (45.7-85.3)	¥	104.6 (74.0-135.1)
All Races/Ethnicities	126.5 (123.2-129.7)	141.7 (134.4-149.1)	142.5 (123.1-161.9)	109.6 (102.7-116.4)

¥ 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.

PROSTATE INCIDENCE TREND BY AGE GROUPS, 1995-2012

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

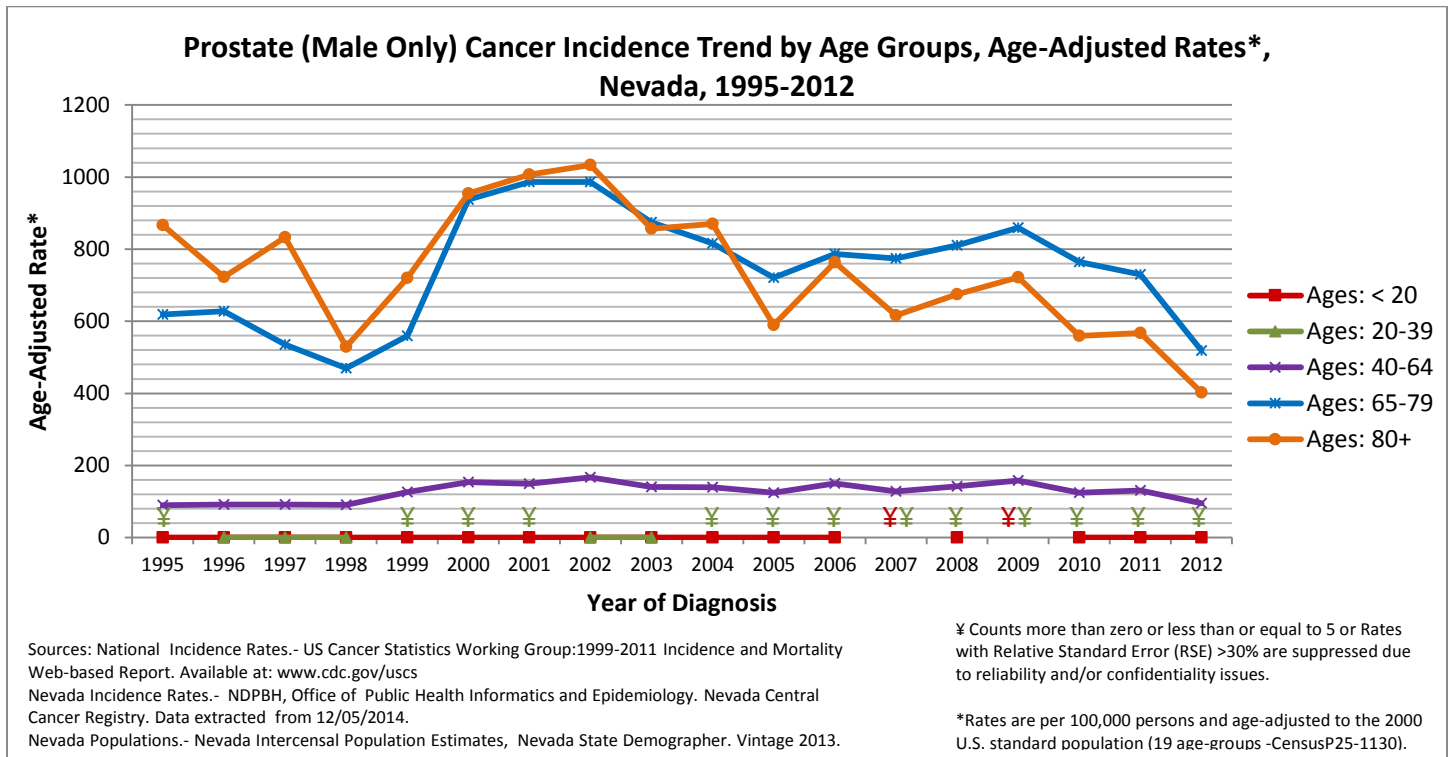


Table 15: Prostate (Male Only) Cancer Incidence Annual Age-Adjusted Rates* by Age Groups, Nevada, 1995-2012.

Nevada	1995	1996	1997	1998	1999	2000	2001	2002	2003
< 20	0	0	0	0	0	0	0	0	0
20 - 39	‡	0	0	0	‡	‡	‡	0	0
40 - 64	89.5 (77.7-101.4)	91.7 (80.0-103.3)	91.4 (80.1-102.7)	90.8 (79.9-101.7)	126.2 (113.7-138.6)	153.4 (140.0-166.8)	149.3 (136.4-162.2)	166.7 (153.4-180.1)	140.1 (128.3-152.0)
65 - 79	619 (561.1-677.0)	627.9 (570.7-685.1)	535.5 (484.4-586.7)	470.2 (423.1-517.2)	559.8 (509.5-610.0)	937.2 (873.1-1001.2)	986.7 (922.1-1051.4)	986.6 (922.8-1050.3)	874.6 (815.4-933.8)
80 +	866.4 (687.4-1045.4)	722.3 (568.8-875.9)	832.4 (668.4-996.3)	528.8 (404.0-653.5)	720.3 (579.1-861.4)	954.0 (802.3-1105.7)	1006.4 (858.9-1153.8)	1033.5 (886.6-1180.5)	856.6 (730.4-982.8)

Nevada	2004	2005	2006	2007	2008	2009	2010	2011	2012
< 20	0	0	0	‡	0	‡	0	0	0
20 - 39	‡	‡	‡	‡	‡	‡	‡	‡	‡
40 - 64	139.3 (127.7-150.8)	124.9 (114.1-135.6)	150.4 (138.9-161.9)	128.4 (118.0-138.8)	141.8 (131.1-152.5)	158.2 (147.0-169.4)	124.8 (115.0-134.6)	130.6 (120.6-140.5)	95.3 (86.8-103.7)
65 - 79	815.6 (759.6-871.7)	720.7 (668.7-772.6)	787.0 (733.7-840.2)	773.9 (722.1-825.7)	811.0 (759.0-863.0)	859.0 (806.1-912.0)	764.7 (715.2-814.2)	729.7 (681.8-777.6)	518.9 (479.5-558.3)
80 +	869.7 (746.7-992.7)	589.8 (491.7-687.9)	763.4 (655.1-871.7)	616.1 (519.7-712.5)	674.9 (574.6-775.2)	722.2 (621.1-823.3)	559.1 (471.3-646.8)	567.0 (480.0-654.1)	402.7 (329.7-475.7)

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

PROSTATE CANCER INCIDENCE BY AGE GROUPS, 2008-2012

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

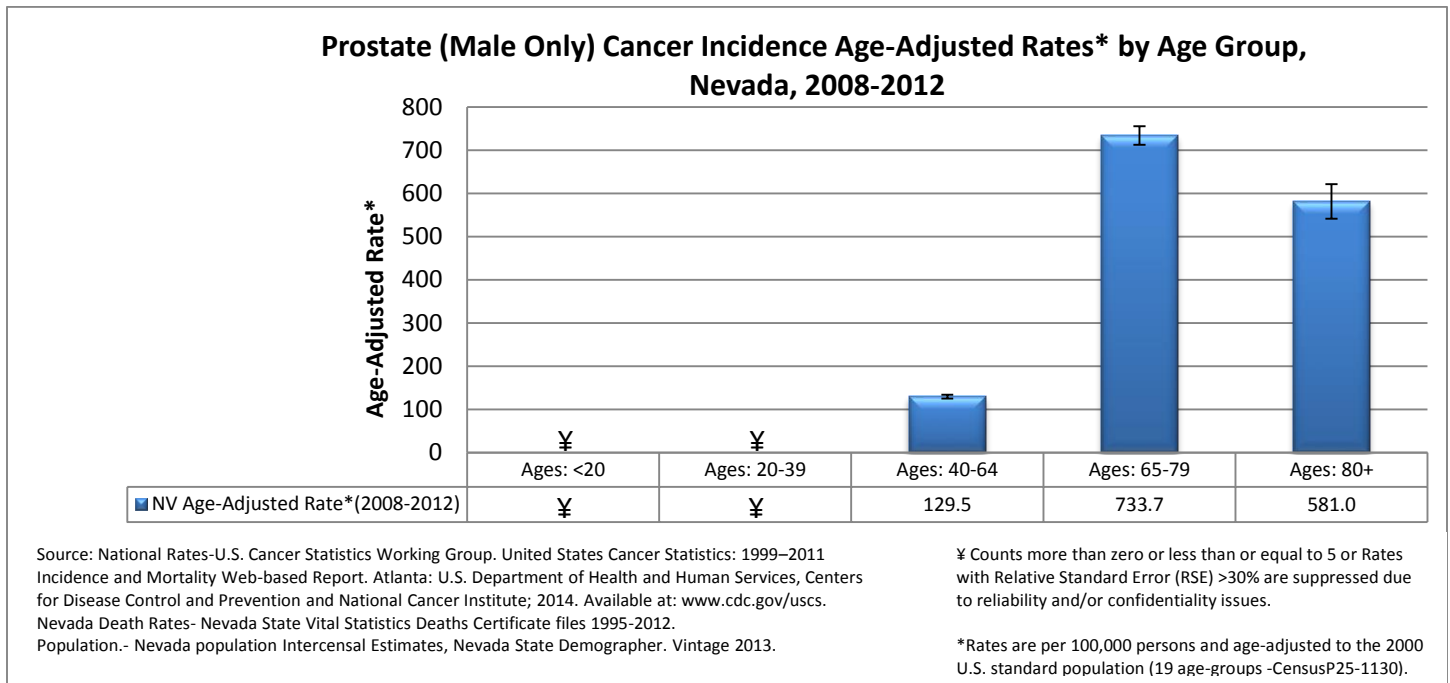


Table 16: Prostate (Male Only) Cancer Incidence by Region and by Age Groups, Age-Adjusted Rates*, Nevada Geo-demographical Regions, 2008-2012

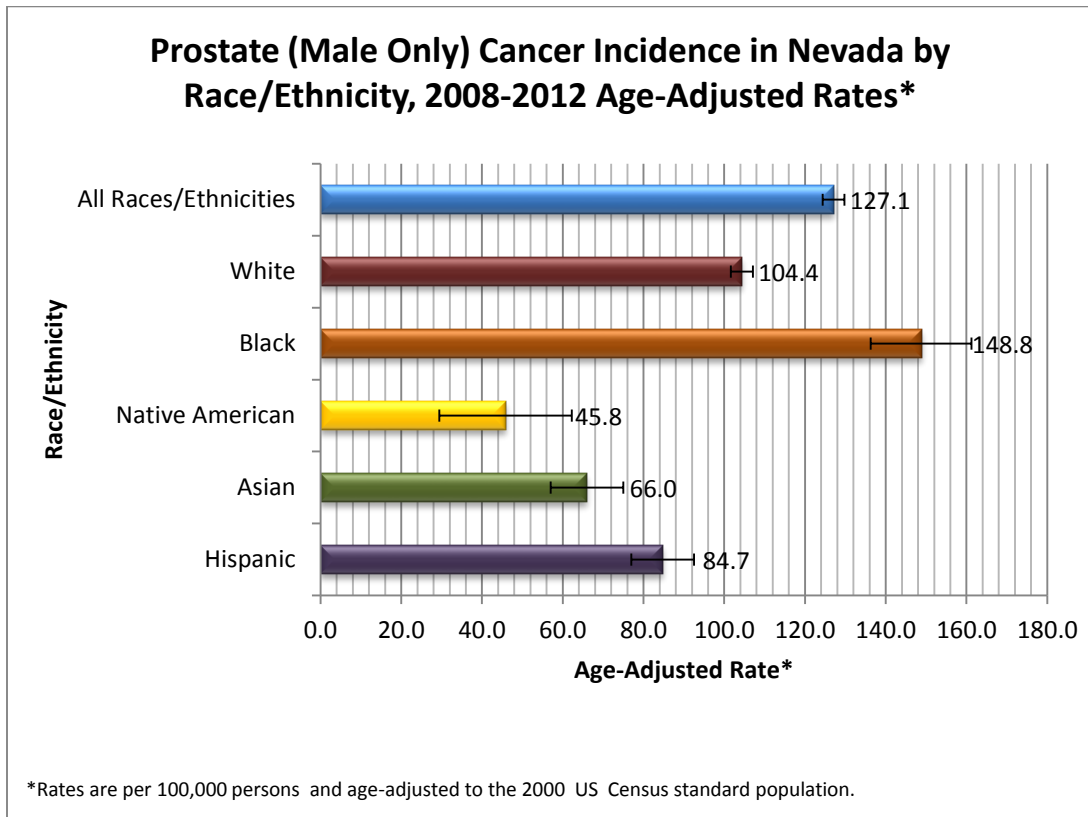
Prostate (Male Only) Cancer Incidence (All Races) by Age Group - Age-Adjusted Rates*, 2008-2012 (Regions ordered by population size)				
Age Groups	Clark	Washoe	Carson City	Rural
< 20	¥	0	0	0
20 - 39	¥	0	0	¥
40 - 64	129.2 (123.8-134.6)	137.2 (125.9-148.6)	137 (106.2-167.9)	116.7 (104.6-128.7)
65 - 79	728.0 (702.1-753.9)	821.9 (761.8-882.0)	904.1 (735.1-1073)	629.7 (576.4-682.9)
80 +	581.0 (532.7-629.3)	706.6 (589.1-824.1)	502.8 (287.7-717.8)	459.7 (364.2-555.3)
All Ages	126.5 (123.2-129.7)	141.7 (134.4-149.1)	142.5 (123.1-161.9)	109.6 (102.7-116.4)

¥ 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.

PROSTATE CANCER INCIDENCE SNAPSHOT

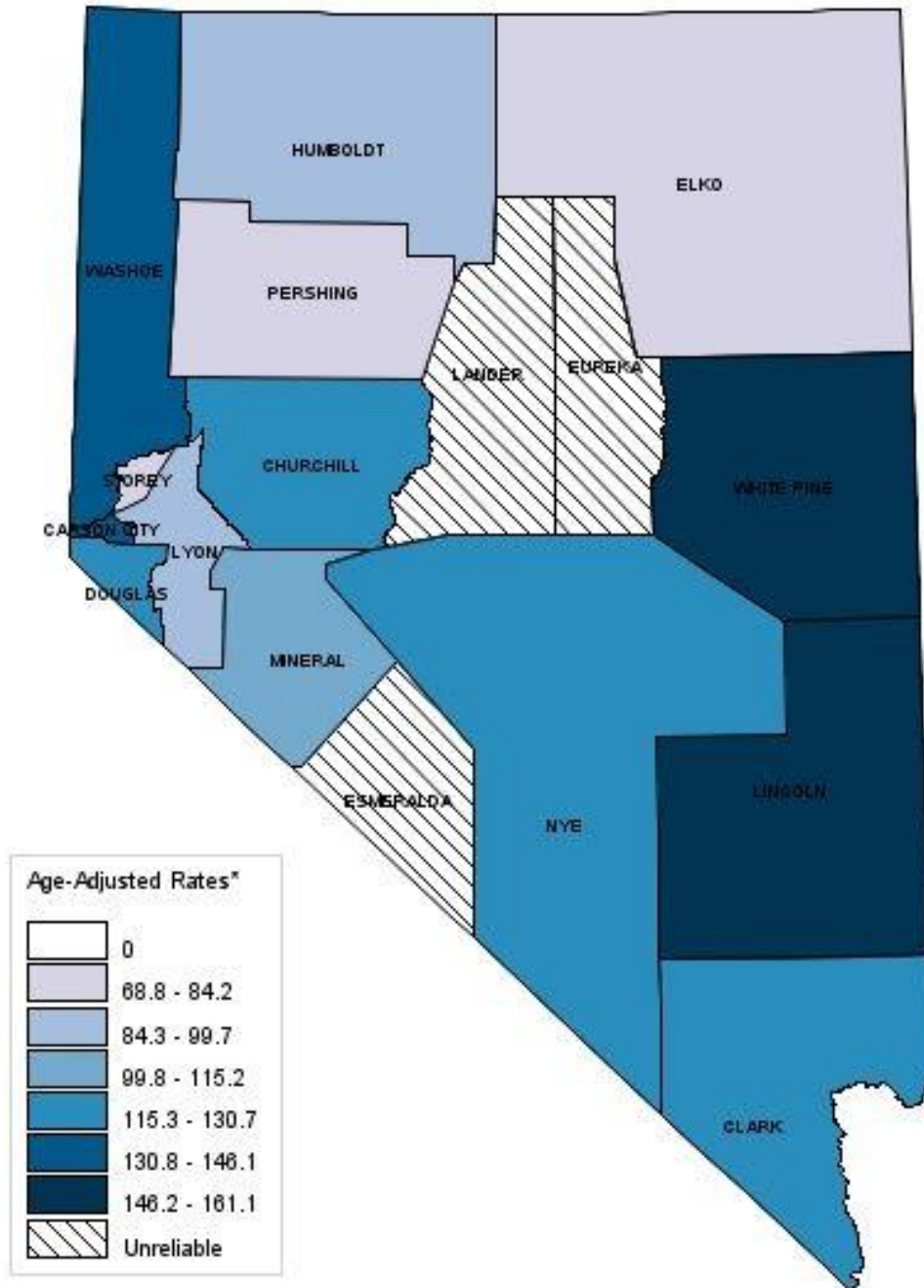
Table 17: Prostate (Male Only) Cancer Incidence Causes Annual Age-Adjusted Rates* by Race/Ethnicity, Nevada, 2008-2012.



PROSTATE CANCER INCIDENCE BY GEOGRAPHICAL DISTRIBUTION

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

Nevada Prostate 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: Prostate (Male Only) Cancer Incidence by County, Age-Adjusted Rates*, Nevada, 2008-2012.

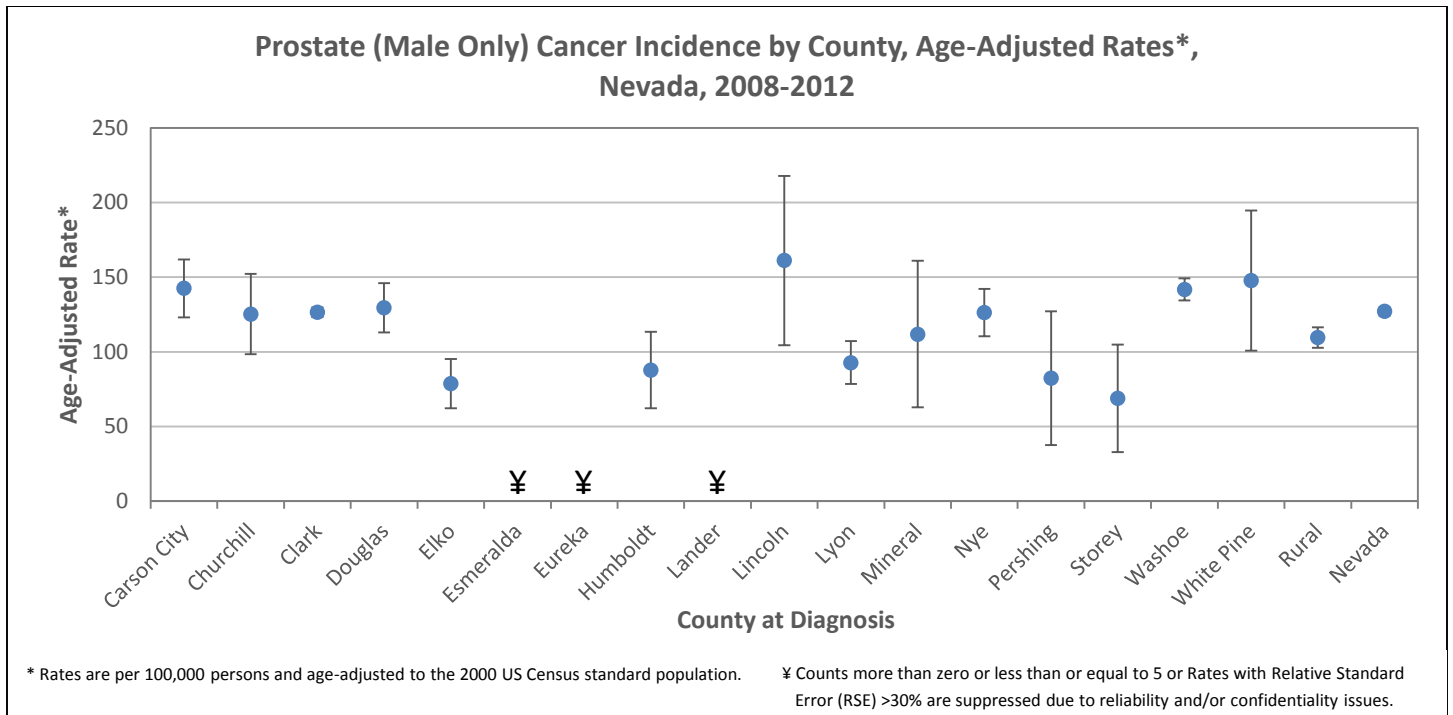


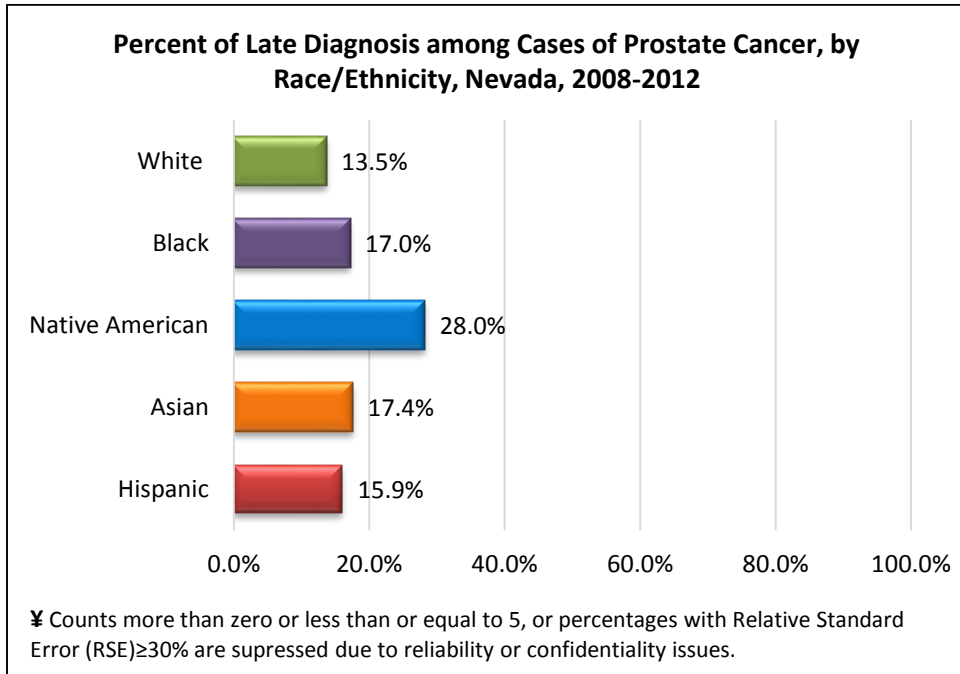
Table 18: Prostate (Male Only) Cancer Incidence Cumulative Annual Age-Adjusted Rates* by County, Nevada, 2008-2012.

Nevada Prostate (Male Only) Cancer Incidence (All Ages, All Races) by County - Counts/Age-Adjusted Rates*, 2008-2012		
County	Counts	Age Adj. Rate*
Carson City	207	142.5 (123.1-161.9)
Churchill	83	125.3 (98.4-152.3)
Clark	5,818	126.5 (123.2-129.7)
Douglas	236	129.5 (113.0-146.0)
Elko	87	78.7 (62.2-95.3)
Esmeralda	¥	¥
Eureka	¥	¥
Humboldt	45	87.8 (62.1-113.4)
Lander	10	¥
Lincoln	31	161.1 (104.4-217.8)
Lyon	160	92.7 (78.4-107.1)
Mineral	20	111.8 (62.8-160.9)
Nye	243	126.2 (110.4-142.1)
Pershing	13	82.4 (37.6-127.2)
Storey	14	68.8 (32.8-104.9)
Washoe	1,418	141.7 (134.4-149.1)
White Pine	38	147.7 (100.7-194.7)
Rural Counties	987	109.6 (102.7-116.4)

¥ 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 Prostate Cancer, by Race/Ethnicity, Nevada, 2008-2012



CITATIONS

1. Nevada Central Cancer Registry. 2012. Database accessed December 2014.
2. National Cancer Institute. Surveillance, Epidemiology, and End Results Program. For Researches Data Sets and Software. Calculating Age-adjusted Rates. SEER*Stat Tutorials, Steps to calculate an age-adjusted rate. Available at: <http://seer.cancer.gov/seerstat/tutorials/aarates/definition.html>
3. US census, Population estimates, historical data: Population Estimates for Counties by Age, Race, Sex, and Hispanic Origin: Annual Time Series: July 1, 1990 to July 1, 1999. Nevada [ZIP file] . Available at: <http://www.census.gov/popest/data/counties/asrh/1990s/CO-99-12.html>
4. US census, Population estimates, historical data: Intercensal Estimates of the Resident Population by Age, Sex, Race, and Hispanic Origin: April 1, 2000 to July1, 2010 County Characteristics . Available at: <http://www.census.gov/popest/data/intercensal/county/files/CO-EST00INT-ALLDATA-32.csv>
5. Hofferkamp, J (Ed). Standards for Cancer Registries Volume III: Standards for Completeness, Quality, Analysis, Management, Security and Confidentiality of Data. Springfield (IL): North American Association of Central Cancer Registries, August 2008.
6. US Cancer Statistics Working Group. United States Cancer Statistics: 1999–2010 Incidence and Mortality Web-based Report. Atlanta: US Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2013. Available at: <http://apps.nccd.cdc.gov/uscs/>
7. Sugarman JR, Holliday M, Ross A, Castorina J, Hui Y. Improving American Indian cancer data in the Washington State Cancer Registry using linkages with the Indian Health Service and tribal records. *Cancer* 1996; 78(7 Suppl):1564–1568.
8. Frost F, Taylor V, Fries E. Racial misclassification of Native Americans in a Surveillance, Epidemiology and End Results cancer registry. *Journal of the National Cancer Institute* 1992; 84(12):957–962.
9. Kwong SL, Perkins CL, Snipes KP, Wright WF. Improving American Indian cancer data in the California Cancer Registry by linkage with the Indian Health Service. *Journal of Registry Management* 1998; 25(1):17–20.
10. Division of Cancer Prevention and Control, National Center of Chronic Disease Prevention and Health Promotion. Guidance for Comparing States Cancer Data. Available at: http://www.cdc.gov/cancer/npcr/uscs/data/00_guidance_include.htm

POINT-OF-CONTACT

Carmen Ponce, M.D., M.P.H.
NCCR Biostatistician
cponce@health.nv.gov
(775) 684-5965

FUNDING SOURCE(S)

This publication was supported by Cooperative Agreement Number 5U58DP003929-03 from the Centers for Disease Control and Prevention (CDC). Its contents are solely the responsibility of the authors and do not necessarily represent the official views of CDC.

RECOMMENDED CITATION

Nevada Central Cancer Registry. Division of Public and Behavioral Health. *Comprehensive Report: Prostate Cancer. e 1.0*. Carson City, Nevada. September 2015.



Public Health
Prevent. Promote. Protect.