

Washington State  
**Vital Statistics ICD-10  
Mortality Supplement  
1990-1999**

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# Introduction



# Washington Counties and County Seats



## Introduction

Beginning with deaths occurring in January 1999, the United States began using the Tenth Revision of the International Classification of Diseases (ICD-10) to classify causes of death reported on death certificates. *Washington State Vital Statistics ICD-10 Mortality Supplement, 1990-1999*, published by the Center for Health Statistics of the Washington State Department of Health, presents tables of mortality using new cause-of-death categories 1990-1999. It includes a report, *Comparability of Cause of Death Between ICD-9 and ICD-10: Preliminary Estimates*<sup>1</sup>, that was prepared by the National Center for Health Statistics, Department of Health and Human Services. The change to ICD-10 introduces new tabulation lists of cause-of-death categories, changes in classification, and changes in rules for selecting underlying cause-of-death that will create a discontinuity in mortality trends over time.

Publication of mortality statistics supports the mission of the Department of Health to protect and improve the health of people in Washington State. Mortality data are used by policy makers, health professionals, community-based organizations, researchers, and citizens to understand trends in leading causes of death, identify high risk populations (and geographic areas), set prevention priorities, and plan targeted health promotion strategies. This supplement is designed to assist data users to understand and accurately interpret the changes in mortality data created by the shift from ICD-9 to ICD-10.

## Overview

The International Classification of Diseases or ICD provides the essential ground rules for the coding and classification of cause-of-death data. The purpose of the ICD is to promote international comparability in the collection, classification, processing and presentation of health statistics, including both morbidity and mortality. The U.S. is required to use the ICD for the classification of diseases and injuries under an agreement with the World Health Organization (WHO) that has the force of an international treaty. Since 1900, the ICD has been modified about once every 10 years, except for the 20-year interval between the last two revisions, ICD-9 and ICD-10.

The change to ICD-10 will create a discontinuity in trends that must be accounted for when comparing 1999 mortality to prior years. To put it another way, ***1999 cause-of-death data are not comparable to prior years***, unless adjustments are made for the coding and classification changes. Without adjustment, it is impossible to know whether an observed increase or decrease in

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<sup>1</sup> Anderson RN, Miniño AM, Hoyert DL, Rosenberg HM. Comparability of cause of death between ICD-9 and ICD-10: Preliminary estimates. National vital statistics reports; vol. 49 no. 2. Hyattsville, Maryland: National Center for Health Statistics, 2001.

deaths due to a particular cause is “real” or merely the result of the changes in classification and coding.

To enable comparisons across the ICD-9 to ICD-10 transition, a preliminary comparability study was carried out by the National Center for Health Statistics (NCHS). NCHS double-coded a large sample of the 1996 national mortality file, once by ICD-9, and again by ICD-10. A **comparability ratio** was then calculated by dividing the number of deaths for a selected cause of death classified by ICD-10 by the number of deaths classified to the most nearly comparable cause of death by ICD-9. The resulting ratio can be used to *adjust* counts and rates for a given cause of death classified by ICD-9 so they are comparable to those for the most similar cause classified by ICD-10. The ratio will also allow users to estimate the extent of the discontinuity of the change to ICD-10 by showing the net effect of coding and classification changes. The preliminary comparability study will be followed by a comparability study based on the complete national mortality file in 2002.

Appendix B contains the report *Comparability of Cause of Death Between ICD-9 and ICD-10: Preliminary Estimates* which describes major features of ICD-10 and presents preliminary data describing the effects of the implementation of ICD-10 on mortality statistics for selected causes of death. Tables with comparability ratios are presented for two tabulation lists of causes of death.

#### Example

In order to compare rates or counts coded by ICD-9 with rates or counts coded by ICD-10, multiply the ICD-9 count or rate by the cause specific comparability ratio. For example, there were 1,717 deaths due to pneumonia and influenza to residents of Washington State in 1998 (ICD-9 480-487). In 1999, 1,258 residents of Washington State died due to pneumonia and influenza (ICD-10 J10-J18). Comparing these counts leads to a conclusion that there was a very large drop in deaths due to pneumonia and influenza. This conclusion is incorrect: By multiplying the 1998 count of 1,717 times the comparability ratio of 0.70, the comparability modified number of deaths in 1998 would be 1,202. Comparing the modified count in 1998 of 1,202 to the ICD-10 count in 1999 of 1,258 shows an increase of only 56 deaths in from 1998 to 1999 instead of a large decrease.

1998	Pneumonia & Influenza (ICD-9 480-487)	1,717
	Multiply by the Comparability Ratio	x 0.70
1998	Comparability modified	= 1,202
1999	Pnumonia & Influenza (ICD-10 J10-J18)	1,258
	Change in number of deaths (1,258 – 1,202)	56



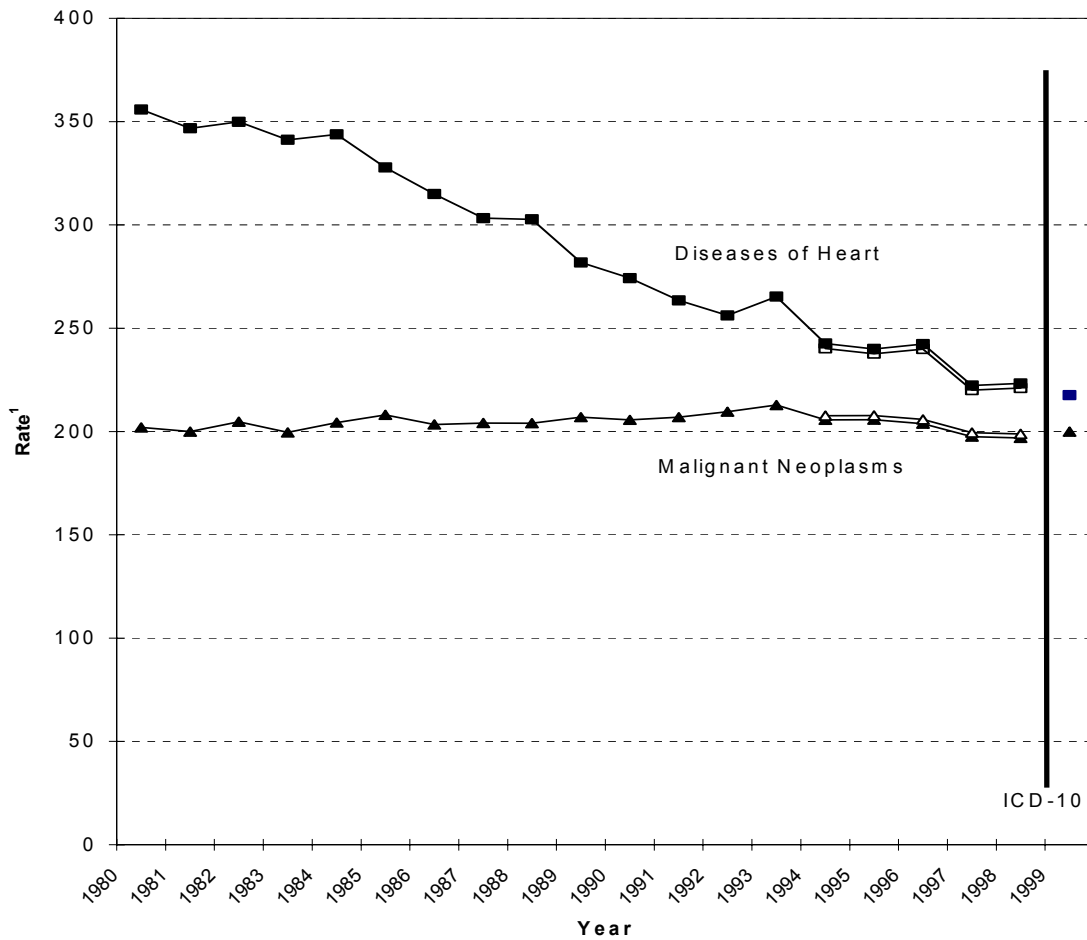
# Figures and Mortality Tables





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**Figure 1. Mortality Rates for First and Second Leading Causes of Death to Residents, 1980-1999 (Diseases of Heart and Malignant Neoplasms)**



<sup>1</sup> Rate per 100,000 age-adjusted to U.S. 2000 population.

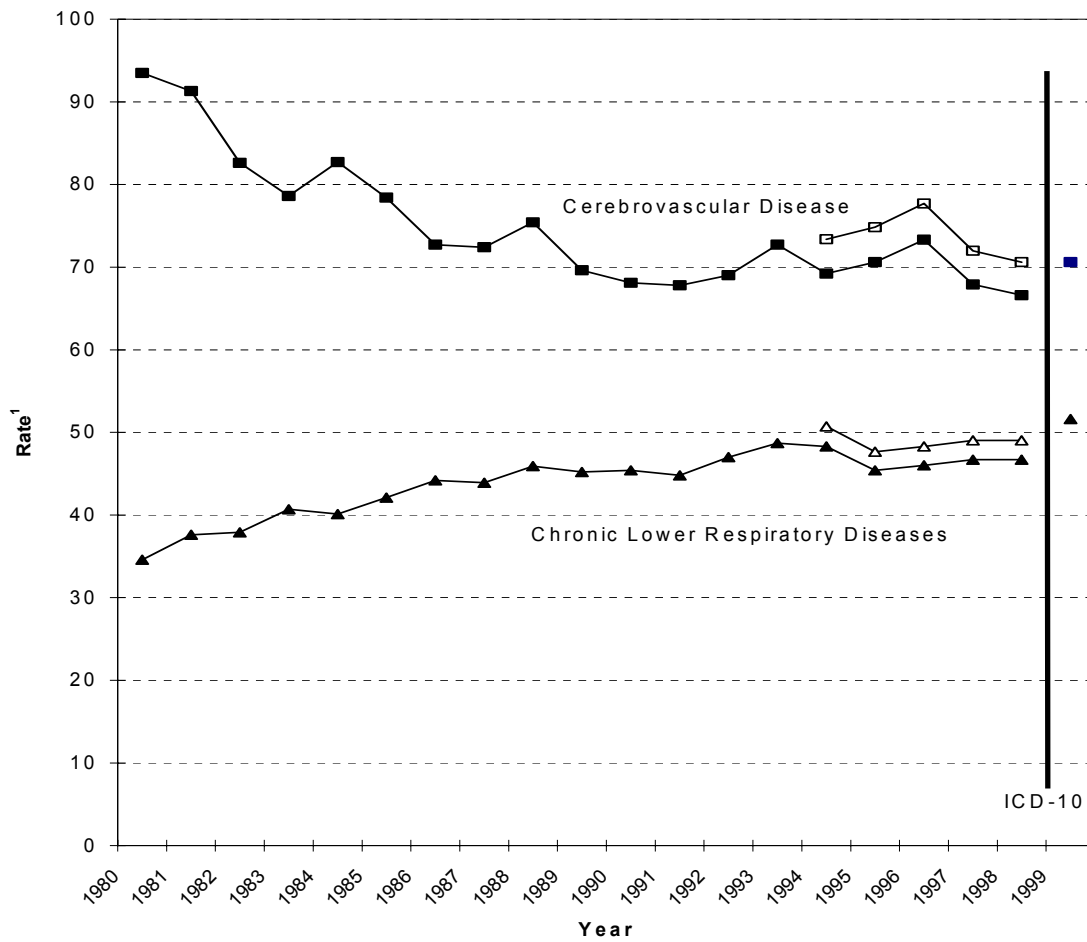
Notes:

Open symbols (□ and ▽) represent age-adjusted rates multiplied by a comparability ratio.

Diseases of the Heart: ICD-9 codes in 1980-1998: 390-398, 402, 404, 410-429  
 ICD-10 codes in 1999: I00-I09, I11, I13, I20-I51  
 Comparability Ratio = 0.99

Malignant Neoplasms: ICD-9 codes in 1980-1998: 140-208  
 ICD-10 codes in 1999: C00-C97  
 Comparability Ratio = 1.01

Figure 2. Mortality Rates for Third and Fourth Leading Causes of Death to Residents, 1980-1999 (Cerebrovascular Diseases and Chronic Lower Respiratory Diseases)



<sup>1</sup> Rate per 100,000 age-adjusted to U.S. 2000 population.

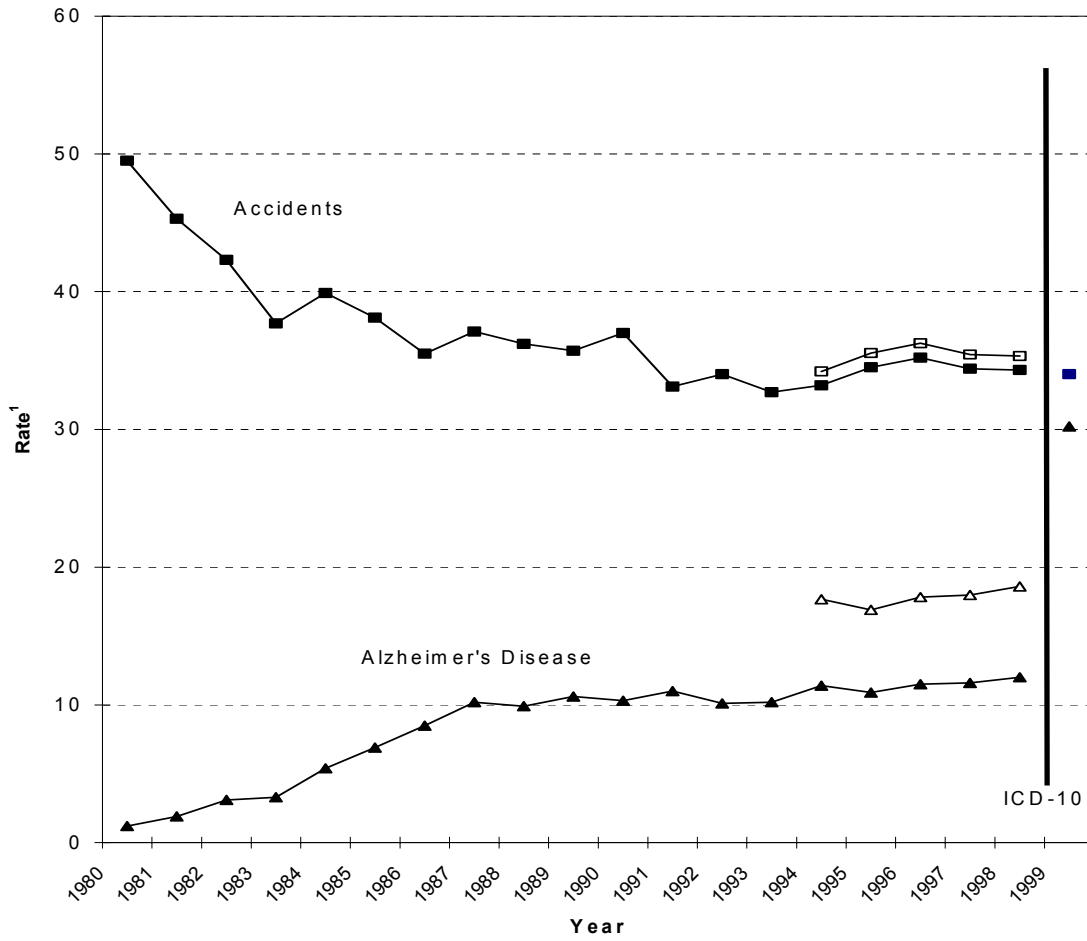
Notes:

Open symbols (□ and ▽) represent age-adjusted rates multiplied by a comparability ratio.

Cerebrovascular Disease: ICD-9 codes in 1980-1998: 430-434,436-438  
 ICD-10 codes in 1999: I60-I69  
 Comparability Ratio = 1.06

Chronic Lower Respiratory Disease: ICD-9 codes in 1980-1998: 490-494,496  
 ICD-10 codes in 1999: J40-J47  
 Comparability Ratio = 1.05

Figure 3. Mortality Rates for Fifth and Sixth Leading Causes of Death to Residents, 1980-1999 (Accidents, Alzheimer's Disease)



<sup>1</sup> Rate per 100,000 age-adjusted to U.S. 2000 population.

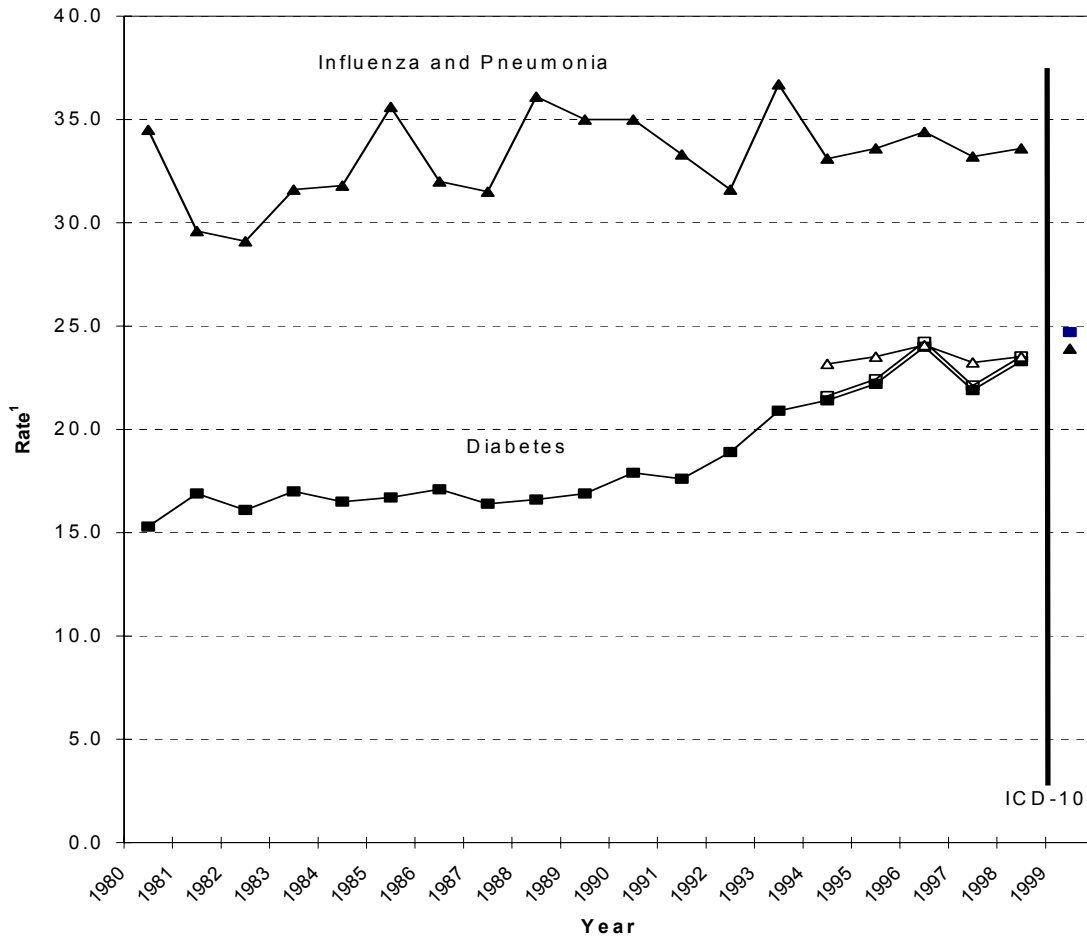
Notes:

Open symbols (□ and ▽) represent age-adjusted rates multiplied by a comparability ratio.

Accidents: ICD-9 codes in 1980-1998: E800-E869, E880-E929  
 ICD-10 codes in 1999: V01-X59, Y85-Y86  
 Comparability Ratio = 1.03

Alzheimer's Disease: ICD-9 codes in 1980-1998: 331.0  
 ICD-10 codes in 1999: G30  
 Comparability Ratio = 1.55

Figure 4. Mortality Rates for Seventh and Eighth Leading Causes of Death to Residents, 1980-1999 (Diabetes Mellitus, Influenza and Pneumonia)



<sup>1</sup> Rate per 100,000 age-adjusted to U.S. 2000 population.

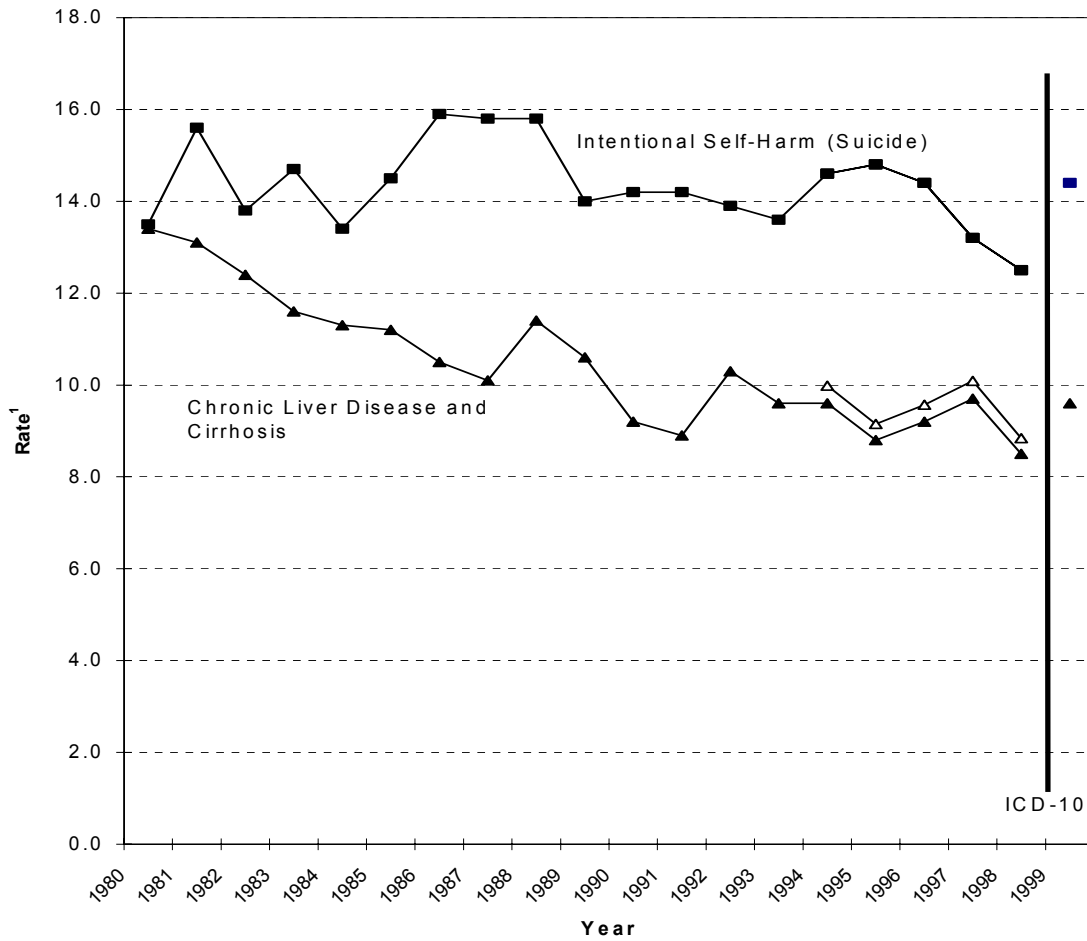
Notes:

Open symbols (□ and ▽) represent age-adjusted rates multiplied by a comparability ratio.

Diabetes Mellitus: ICD-9 codes in 1980-1998: 250  
 ICD-10 codes in 1999: E10-E14  
 Comparability Ratio = 1.01

Influenza & Pneumonia: ICD-9 codes in 1980-1998: 480-487  
 ICD-10 codes in 1999: J10-J18  
 Comparability Ratio = 0.70

Figure 5. Mortality Rates for Ninth and Tenth Leading Causes of Death to Residents, 1980-1999 (Intentional Self-Harm (Suicide) and Chronic Liver Disease & Cirrhosis)



<sup>1</sup> Rate per 100,000 age-adjusted to U.S. 2000 population.

Notes:

Open symbols (□ and ▽) represent age-adjusted rates multiplied by a comparability ratio.

Intentional Self-Harm (Suicide): ICD-9 codes in 1980-1998: E950-E959  
 ICD-10 codes in 1999: X60-X84, Y87.0  
 Comparability Ratio = 1.00

Chronic Liver Disease & Cirrhosis: ICD-9 codes in 1980-1999: 571  
 ICD-10 codes in 1999: K70, K73-K74  
 Comparability Ratio = 1.04

## Mortality Tables

Table S1. Top Ten Leading Causes of Death (in One or More Years) to Residents Sorted by 1999 Rank Order, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	1990		1991		1992		1993		1994		1995	
	Rank	% <sup>1</sup>	Rank	% <sup>1</sup>	Rank	% <sup>1</sup>	Rank	% <sup>1</sup>	Rank	% <sup>1</sup>	Rank	% <sup>1</sup>
<b>All Causes</b>	<b>37,047</b>	<b>100.0</b>	<b>37,028</b>	<b>100.0</b>	<b>38,095</b>	<b>100.0</b>	<b>40,380</b>	<b>100.0</b>	<b>39,906</b>	<b>100.0</b>	<b>40,729</b>	<b>100.0</b>
Diseases of Heart (390-398,402,404,410-429)(I00-I09,I11,I13,I20-I51)	1	30.3	1	30.2	1	29.3	1	29.4	1	28.1	1	27.8
Malignant Neoplasms (140-208)(C00-C97)	2	24.3	2	24.8	2	25.1	2	24.5	2	24.6	2	24.6
Cerebrovascular Diseases (430-434,436-438)(I60-I69)	3	7.3	3	7.6	3	7.7	3	7.9	3	7.9	3	8.1
Chronic Lower Respiratory Diseases (490-494,496)(J40-J47)	4	5.2	4	5.3	4	5.6	4	5.6	4	5.7	4	5.4
Accidents (E800-E869,E880-E929)(V01-X59, Y85-Y86)	5	4.7	5	4.3	5	4.4	5	4.1	5	4.3	5	4.4
Alzheimer's Disease (331.0)(G30)	11	1.1	9	1.2	11	1.1	11	1.1	10	1.3	10	1.2
Diabetes Mellitus (250)(E10-E14)	7	2.1	7	2.1	7	2.3	7	2.4	7	2.6	7	2.6
Influenza and Pneumonia (480-487)(J10-J18)	6	3.8	6	3.7	6	3.5	6	3.9	6	3.7	6	3.8
Intentional Self-Harm (Suicide) (E950-E959)(X60-X84,Y87.0)	8	1.8	8	1.9	8	1.8	8	1.7	8	1.9	8	1.9
Chronic Liver Disease & Cirrhosis (571)(K70, K73-K74)	10	1.1	12	1.1	9	1.3	10	1.1	11	1.2	11	1.1
Atherosclerosis (440)(I70)	9	1.2	10	1.2	12	1.1	12	1.0	12	0.9	12	0.9
HIV (042-044)(B20-B24)	12	0.9	11	1.1	10	1.2	9	1.3	9	1.5	9	1.5
All Other Causes		16.1		15.7		15.7		15.9		16.5		16.6

Cause Followed by ICD-9 and ICD-10 Code	1996		1997		1998		Comp. Ratio	1999 (ICD-10)	
	Rank	% <sup>1</sup>	Rank	% <sup>1</sup>	Rank	% <sup>1</sup>		Rank	% <sup>1</sup>
<b>All Causes</b>	<b>42,248</b>	<b>100.0</b>	<b>41,429</b>	<b>100.0</b>	<b>42,585</b>	<b>100.0</b>		<b>43,793</b>	<b>100.0</b>
Diseases of Heart (390-398,402,404,410-429)(I00-I09,I11,I13,I20-I51)	1	27.9	1	26.8	1	26.9	0.99	1	26.2
Malignant Neoplasms (140-208)(C00-C97)	2	24.1	2	24.3	2	24.1	1.01	2	24.3
Cerebrovascular Diseases (430-434,436-438)(I60-I69)	3	8.4	3	8.1	3	8.0	1.06	3	8.5
Chronic Lower Respiratory Diseases (490-494,496)(J40-J47)	4	5.3	4	5.7	4	5.6	1.05	4	6.2
Accidents (E800-E869,E880-E929)(V01-X59, Y85-Y86)	5	4.4	5	4.5	5	4.4	1.03	5	4.4
Alzheimer's Disease (331.0)(G30)	9	1.3	9	1.4	9	1.4	1.55	6	3.6
Diabetes Mellitus (250)(E10-E14)	7	2.8	7	2.7	7	2.8	1.01	7	3.0
Influenza and Pneumonia (480-487)(J10-J18)	6	3.9	6	4.0	6	4.0	0.70	8	2.9
Intentional Self-Harm (Suicide) (E950-E959)(X60-X84,Y87.0)	8	1.9	8	1.8	8	1.6	1.00	9	1.9
Chronic Liver Disease & Cirrhosis (571)(K70, K73-K74)	10	1.1	10	1.2	10	1.1	1.04	10	1.2
Atherosclerosis (440)(I70)	12	0.9	13	0.8	13	0.8	0.96	12	0.8
HIV (042-044)(B20-B24)	11	0.9	20	0.4	23	0.3	1.06	22	0.2
All Other Causes		17.1		18.3		18.8			16.9

<sup>1</sup>Percent of total deaths.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999.



Table S2. Top Ten Leading Causes of Death (in One or More Years) to Infant (Age < 1 Year) Residents Sorted by 1999 Rank Order, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	1990		1991		1992		1993		1994		1995	
	Rank	% <sup>1</sup>	Rank	% <sup>1</sup>	Rank	% <sup>1</sup>	Rank	% <sup>1</sup>	Rank	% <sup>1</sup>	Rank	% <sup>1</sup>
<b>State Total</b>	<b>622</b>	<b>100.0</b>	<b>603</b>	<b>100.0</b>	<b>540</b>	<b>100.0</b>	<b>495</b>	<b>100.0</b>	<b>478</b>	<b>100.0</b>	<b>449</b>	<b>100.0</b>
Congenital Malformations (740-759)(Q00-Q99)	2	24.4	2	22.9	1	25.9	2	23.6	1	27.2	1	26.3
Sudden Infant Death Syndrome (798.0)(R95)	1	29.7	1	29.4	2	24.1	1	28.3	2	24.1	2	22.5
Short Gestation & Low Birth Weight (765)(P07)	3	5.0	3	4.8	3	7.2	3	7.1	3	6.9	3	10.9
Maternal Complications of Pregnancy (761)(P01)	5	4.0	5	3.5	4	4.6	10	1.4	5	4.0	6	3.3
Neonatal Hemorrhage (772)(P50-P52,P54)			10	1.3	16	0.6	16	0.8			12	1.1
Diseases of the Circulatory System (390-434,436-459)(I00-I99)	8	2.1	8	2.5	9	2.0	9	1.6	11	1.5	10	1.6
Complications of Placenta, Cord & Membranes (762)(P02)	6	3.2	4	4.6	5	3.0	6	2.2	6	2.9	4	3.6
Intrauterine Hypoxia & Birth Asphyxia (768)(P20-P21)	10	1.1	10	1.3	12	1.1	7	2.0	6	2.9	4	3.6
Accidents (800-869,880-929)(V01-X59, Y85-Y86)	9	1.6	8	2.5	8	2.2	5	3.4	8	2.5	7	3.1
Bacterial Sepsis of Newborn (771.8)(P36)	7	2.4	6	3.2	5	3.0	12	1.0	9	2.3	12	1.1
Respiratory Distress of Newborn (769)(P22)	4	4.5	7	3.0	7	2.4	4	4.2	4	4.8	8	2.2
All Other Causes				21.1		23.9		24.2				20.7

Cause Followed by ICD-9 and ICD-10 Code	1996		1997		1998		Comp. Ratio	1999 (ICD-10)	
	Rank	% <sup>1</sup>	Rank	% <sup>1</sup>	Rank	% <sup>1</sup>		Rank	% <sup>1</sup>
<b>State Total</b>	<b>467</b>	<b>100.0</b>	<b>440</b>	<b>100.0</b>	<b>452</b>	<b>100.0</b>		<b>401</b>	<b>100.0</b>
Congenital Malformations (740-759)(Q00-Q99)	1	30.8	1	26.6	1	26.5	0.91	1	26.4
Sudden Infant Death Syndrome (798.0)(R95)	2	17.1	2	19.1	2	20.1	1.04	2	16.7
Short Gestation & Low Birth Weight (765)(P07)	3	9.0	3	8.2	3	8.6	1.11	3	12.0
Maternal Complications of Pregnancy (761)(P01)	4	4.5	6	3.0	4	4.0	1.03	4	3.7
Neonatal Hemorrhage (772)(P50-P52,P54)	15	0.6	24	0.5	12	1.3	1.44	5	3.2
Diseases of the Circulatory System (390-434,436-459)(I00-I99)	9	1.7	9	2.5	5	3.3	0.71	6	3.0
Complications of Placenta, Cord & Membranes (762)(P02)	6	3.4	4	3.6	5	3.3	1.05	7	2.7
Intrauterine Hypoxia & Birth Asphyxia (768)(P20-P21)	7	2.1	7	2.7	5	3.3	1.45	7	2.7
Accidents (800-869,880-929)(V01-X59, Y85-Y86)	12	1.1	7	2.7	9	2.2	1.02	7	2.7
Bacterial Sepsis of Newborn (771.8)(P36)	7	2.1	10	2.0	12	1.3	0.91	10	2.0
Respiratory Distress of Newborn (769)(P22)	4	4.5	4	3.6	8	3.1	1.03	11	1.7
All Other Causes		22.9		25.5		22.8			22.9

<sup>1</sup>Percent of total deaths.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999.

Table S3a. Number of Deaths and Age-Adjusted Death Rates to Residents Due to Selected Causes, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	1990		1991		1992		1993		1994		1995	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>All Causes<sup>2</sup></b>	<b>(37,047)</b>	<b>(876.5)</b>	<b>(37,028)</b>	<b>(851.3)</b>	<b>(38,095)</b>	<b>(851.1)</b>	<b>(40,380)</b>	<b>(881.3)</b>	<b>(39,906)</b>	<b>(847.3)</b>	<b>(40,729)</b>	<b>(844.8)</b>
<b>Infections(001-033,034.1-134,136-139,771.3)(A00-B99)</b>	(766)	(16.7)	(803)	(17.2)	(861)	(17.5)	(1,012)	(20.0)	(1,098)	(21.3)	(1,022)	(19.3)
Tuberculosis (010-018) (A16-A19)	12	0.3	14	0.3	18	0.4	16	0.3	17	0.4	13	0.2
Septicemia (038) (A40-A41)	234	5.7	224	5.3	207	4.7	228	5.0	212	4.5	184	3.9
Viral Hepatitis (070)(B15-B19)	46	1.0	39	0.8	67	1.4	81	1.7	107	2.2	91	1.8
HIV (042-044)(B20-B24)	341	6.7	412	8.2	451	8.5	534	9.8	608	11.0	598	10.6
Other (Residual)	133	2.9	114	2.5	118	2.5	153	3.1	154	3.1	136	2.7
<b>Neoplasms (140-239)(C00-D48)</b>	<b>(9,081)</b>	<b>(208.9)</b>	<b>(9,278)</b>	<b>(208.8)</b>	<b>(9,638)</b>	<b>(211.6)</b>	<b>(9,999)</b>	<b>(214.7)</b>	<b>(9,882)</b>	<b>(207.3)</b>	<b>(10,123)</b>	<b>(207.7)</b>
Malignant Neoplasms (140-208)(C00-C97)	8,993	206.8	9,193	206.9	9,547	209.6	9,911	212.8	9,804	205.6	10,022	205.6
In Situ & Benign Neoplasms (210-239)(D00-D48)	88	2.1	85	1.9	91	2.1	88	1.9	78	1.6	101	2.1
<b>Dis. of Blood (135,279-289)(D50-D89)</b>	<b>(159)</b>	<b>(3.8)</b>	<b>(152)</b>	<b>(3.5)</b>	<b>(147)</b>	<b>(3.3)</b>	<b>(168)</b>	<b>(3.6)</b>	<b>(168)</b>	<b>(3.6)</b>	<b>(199)</b>	<b>(4.1)</b>
Anemias (280-285)(D50-D64)	51	1.2	51	1.2	51	1.2	40	0.9	58	1.3	65	1.4
Other (Residual)	108	2.5	101	2.3	96	2.1	128	2.7	110	2.3	134	2.8
<b>Endocrine &amp; Metabolic (240-278)(E00-E90)</b>	<b>(1,026)</b>	<b>(24.2)</b>	<b>(1,046)</b>	<b>(23.9)</b>	<b>(1,174)</b>	<b>(26.1)</b>	<b>(1,337)</b>	<b>(29.1)</b>	<b>(1,369)</b>	<b>(28.9)</b>	<b>(1,448)</b>	<b>(29.9)</b>
Diabetes Mellitus (250)(E10-E14)	768	18.1	773	17.6	858	18.9	963	20.9	1,019	21.4	1,079	22.2
Nutritional Deficiencies (260-269)(E40-E64)	54	1.4	62	1.6	54	1.3	81	1.8	60	1.4	73	1.6
Other (Residual)	204	4.8	211	4.8	262	5.9	293	6.4	290	6.1	296	6.1
<b>Mental &amp; Behavioral Dis. (290-319)(F01-F99)</b>	<b>(678)</b>	<b>(17.3)</b>	<b>(651)</b>	<b>(15.9)</b>	<b>(661)</b>	<b>(15.7)</b>	<b>(829)</b>	<b>(19.1)</b>	<b>(945)</b>	<b>(21.0)</b>	<b>(1,088)</b>	<b>(23.4)</b>
<b>Dis. of Nervous System (320-359,435)(G00-G98)</b>	<b>(989)</b>	<b>(23.8)</b>	<b>(1,025)</b>	<b>(24.1)</b>	<b>(1,018)</b>	<b>(23.3)</b>	<b>(1,125)</b>	<b>(25.0)</b>	<b>(1,205)</b>	<b>(26.1)</b>	<b>(1,173)</b>	<b>(24.8)</b>
Meningitis (320-322)(G00-G03)	20	0.4	17	0.4	15	0.3	10	0.2	6	0.1	12	0.2
Amyotrophic Lateral Sclerosis (335.2)(G12.2)	97	2.2	92	2.0	102	2.2	88	1.8	111	2.3	104	2.1
Parkinson's Disease (332)(G20-G21)	170	4.2	206	5.0	223	5.2	293	6.6	296	6.5	284	6.1
Alzheimer's Disease (331.0)(G30)	411	10.6	442	11.0	418	10.1	438	10.2	504	11.4	495	10.8
Multiple Sclerosis (340)(G35)	50	1.1	62	1.3	57	1.2	73	1.5	74	1.5	65	1.3
Other (Residual)	241	5.3	206	4.5	203	4.3	223	4.6	214	4.3	213	4.3
<b>Diseases of the Eye &amp; Ear (360-389)(H00-H93)</b>	<b>(4)</b>	<b>(*)</b>	<b>(1)</b>	<b>(*)</b>	<b>(0)</b>	<b>(*)</b>	<b>(2)</b>	<b>(*)</b>	<b>(4)</b>	<b>(*)</b>	<b>(0)</b>	<b>(*)</b>

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population. Does not include deaths where age is unknown.

<sup>2</sup>Group totals are shown in parentheses.

\* Rate not calculated because number of deaths was less than 5.

\*\* Comparability ratio not available.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

continued Table S3a. Number of Deaths and Age-Adjusted Death Rates to Residents Due to Selected Causes, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	1996		1997		1998		Comparability Ratio	Comparability Modified 1998		1999 (ICD-10)	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>		No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>All Causes<sup>2</sup></b>	<b>(42,248)</b>	<b>(853.7)</b>	<b>(41,429)</b>	<b>(817.7)</b>	<b>(42,585)</b>	<b>(819.7)</b>	n/a	n/a	n/a	<b>(43,793)</b>	<b>(823.6)</b>
<b>Infections (001-033,034.1-134,136-139,771.3)(A00-B99)</b>	(883)	(16.6)	(722)	(13.7)	(622)	(11.6)	**	**	**	(741)	(13.6)
Tuberculosis (010-018) (A16-A19)	17	0.3	17	0.3	15	0.3	0.85	13	0.2	9	0.2
Septicemia (038) (A40-A41)	228	4.7	268	5.3	223	4.3	1.19	265	5.1	307	5.8
Viral Hepatitis (070)(B15-B19)	116	2.2	121	2.3	137	2.5	0.83	114	2.1	90	1.6
HIV (042-044)(B20-B24)	400	7.0	176	3.0	114	1.9	1.06	121	2.1	107	1.8
Other (Residual)	122	2.4	140	2.7	133	2.5	**	**	**	228	4.2
<b>Neoplasms (140-239)(C00-D48)</b>	<b>(10,236)</b>	<b>(205.2)</b>	<b>(10,170)</b>	<b>(199.6)</b>	<b>(10,397)</b>	<b>(199.5)</b>	**	**	**	<b>(10,875)</b>	<b>(204.4)</b>
Malignant Neoplasms (140-208)(C00-C97)	10,162	203.7	10,065	197.5	10,270	197.0	1.01	10,373	199.0	10,641	200.0
In Situ & Benign Neoplasms (210-239)(D00-D48)	74	1.5	105	2.1	127	2.4	1.67	212	4.1	234	4.4
<b>Dis. of Blood (135,279-289)(D50-D89)</b>	<b>(175)</b>	<b>(3.6)</b>	<b>(177)</b>	<b>(3.5)</b>	<b>(210)</b>	<b>(4.0)</b>	**	**	**	<b>(123)</b>	<b>(2.3)</b>
Anemias (280-285)(D50-D64)	56	1.2	60	1.2	75	1.5	0.96	72	1.4	50	0.9
Other (Residual)	119	2.4	117	2.3	135	2.6	**	**	**	73	1.4
<b>Endocrine &amp; Metabolic (240-278)(E00-E90)</b>	<b>(1,587)</b>	<b>(32.0)</b>	<b>(1,550)</b>	<b>(30.5)</b>	<b>(1,626)</b>	<b>(31.3)</b>	**	**	**	<b>(1,797)</b>	<b>(34.0)</b>
Diabetes Mellitus (250)(E10-E14)	1,192	24.0	1,110	21.9	1,212	23.3	1.01	1,224	23.6	1,305	24.7
Nutritional Deficiencies (260-269)(E40-E64)	65	1.4	68	1.4	68	1.3	1.16	79	1.6	78	1.5
Other (Residual)	330	6.6	372	7.3	346	6.6	**	**	**	414	7.8
<b>Mental &amp; Behavioral Dis. (290-319)(F01-F99)</b>	<b>(1,258)</b>	<b>(26.1)</b>	<b>(1,328)</b>	<b>(26.8)</b>	<b>(1,557)</b>	<b>(30.4)</b>	**	**	**	<b>(435)</b>	<b>(8.1)</b>
<b>Dis. of Nervous System (320-359,435)(G00-G98)</b>	<b>(1,322)</b>	<b>(27.0)</b>	<b>(1,399)</b>	<b>(28.0)</b>	<b>(1,470)</b>	<b>(28.5)</b>	**	**	**	<b>(2,575)</b>	<b>(48.9)</b>
Meningitis (320-322)(G00-G03)	15	0.3	17	0.3	11	0.2	1.01	11	0.2	15	0.3
Amyotrophic Lateral Sclerosis (335.2)(G12.2)	101	2.0	99	1.9	107	2.1	**	**	**	161	3.0
Parkinson's Disease (332)(G20-G21)	319	6.6	362	7.3	351	6.9	1.00	351	6.9	411	7.9
Alzheimer's Disease (331.0)(G30)	546	11.5	571	11.6	608	12.0	1.55	942	18.6	1,576	30.2
Multiple Sclerosis (340)(G35)	81	1.6	79	1.5	91	1.7	**	**	**	85	1.5
Other (Residual)	260	5.1	271	5.2	302	5.7	**	**	**	327	6.0
<b>Diseases of the Eye &amp; Ear (360-389)(H00-H93)</b>	<b>(1)</b>	<b>(*)</b>	<b>(1)</b>	<b>(*)</b>	<b>(2)</b>	<b>(*)</b>	**	**	**	<b>(5)</b>	<b>(0.1)</b>

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population. Does not include deaths where age is unknown.

<sup>2</sup>Group totals are shown in parentheses.

\* Rate not calculated because number of deaths was less than 5.

\*\* Comparability ratio not available.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S3b. Number of Deaths and Age-Adjusted Death Rates to Residents Due to Selected Causes, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	1990		1991		1992		1993		1994		1995	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>Dis. Circulatory System (390-434,436-459)(100-199)<sup>2</sup></b>	<b>(15,086)</b>	<b>(370.7)</b>	<b>(15,109)</b>	<b>(358.4)</b>	<b>(15,304)</b>	<b>(352.5)</b>	<b>(16,249)</b>	<b>(364.5)</b>	<b>(15,515)</b>	<b>(337.7)</b>	<b>(15,806)</b>	<b>(336.0)</b>
Major Cardiovascular Dis. (390-434,436-448)(100-178)	(15,027)	(369.3)	(15,050)	(357.0)	(15,255)	(351.4)	(16,208)	(363.6)	(15,460)	(336.5)	(15,751)	(334.9)
Dis. Heart(390-398,402,404,410-429)(100-109,111,113,120-151)	(11,219)	(274.2)	(11,169)	(263.5)	(11,174)	(256.2)	(11,872)	(265.3)	(11,196)	(242.6)	(11,326)	(240.0)
Acute & Chronic Rheumatic Dis. (390-398)(100-109)	125	3.0	142	3.3	140	3.1	127	2.8	154	3.3	107	2.2
Hypertensive Heart Disease (402)(I11)	278	6.9	263	6.4	332	7.7	287	6.5	324	7.0	396	8.4
Hypertensive Heart & Renal Disease (404)(I13)	47	1.2	29	0.7	43	1.0	35	0.8	46	1.0	48	1.0
Ischemic Heart Diseases (410-414,429.2)(I20-I25)	(8,785)	(214.6)	(8,722)	(205.4)	(8,707)	(199.3)	(9,208)	(205.4)	(8,620)	(186.7)	(8,619)	(182.6)
Acute Myocardial Infarction (410)(I21-I22)	3,263	78.6	3,208	74.7	3,323	75.2	3,431	75.7	3,276	70.3	3,000	63.2
Other Acute Ischemic Heart Dis. (411)(I24)	19	0.5	54	1.2	17	0.4	6	0.1	8	0.2	5	0.1
Other Chronic Ischemic Hrt. Dis. (412-414,429.2)(I20, I25)	(5,503)	(135.5)	(5,460)	(129.5)	(5,367)	(123.7)	(5,771)	(129.5)	(5,336)	(116.2)	(5,614)	(119.3)
Atherosclerotic Cardiovascular Dis. (429.2)(I25.0)	1,756	43.2	1,708	40.6	1,633	37.7	1,775	39.9	1,561	33.9	1,693	35.9
All Other Chronic Dis. (412-414)(I20, I25.1-I25.9)	3,747	92.3	3,752	88.9	3,734	86.0	3,996	89.6	3,775	82.3	3,921	83.4
Other Heart Dis. (415-429.1,429.3-429.9)(I26-I51)	(1,984)	(48.6)	(2,013)	(47.8)	(1,952)	(45.1)	(2,215)	(49.9)	(2,052)	(44.6)	(2,156)	(45.8)
Acute & Subacute Endocarditis (421)(I33)	23	0.5	8	0.2	11	0.2	17	0.4	12	0.3	20	0.4
Dis.Pericard.&Ac.Myocarditis(420,422-423)(I30-I31,I40)	16	0.3	20	0.4	8	0.2	16	0.3	17	0.3	14	0.3
Heart Failure (428)(I50)	667	17.2	662	16.4	665	16.0	793	18.5	675	15.2	761	16.6
All Other Heart Disease (Residual)	1,278	30.5	1,323	30.7	1,268	28.6	1,389	30.7	1,348	28.8	1,361	28.5
Hypertension, Hypertensive Renal Dis. (401,403)(I10,I12)	175	4.3	159	3.8	182	4.2	195	4.4	219	4.8	227	4.9
Cerebrovascular Diseases (430-434,436-438)(I60-I69)	2,716	68.1	2,798	67.8	2,942	69.0	3,196	72.7	3,134	69.2	3,289	70.6
Atherosclerosis (440)(I70)	441	11.4	435	10.8	412	9.9	390	9.1	377	8.5	381	8.3
Other Dis. of Circulatory System (441-448)(I71-I78)	(476)	(11.3)	(489)	(11.2)	(545)	(12.2)	(555)	(12.1)	(534)	(11.5)	(528)	(11.0)
Aortic Aneurysm & Dissection (441)(I71)	324	7.6	345	7.8	364	8.2	349	7.6	341	7.3	323	6.7
Other Disease of Arteries (442-448)(I72-I78)	152	3.7	144	3.4	181	4.1	206	4.5	193	4.2	205	4.3
Other (451-459)(I80-I99)	59	1.3	59	1.4	49	1.1	41	0.9	55	1.2	55	1.1

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population. Does not include deaths where age is unknown.

<sup>2</sup>Group totals are shown in parentheses.

\*\* Comparability ratio not available.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

continued Table S3b. Number of Deaths and Age-Adjusted Death Rates to Residents Due to Selected Causes, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	1996		1997		1998		Comparability Ratio	Comparability Modified 1998		1999 (ICD-10)	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>		No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>Dis. Circulatory System (390-434,436-459)(I00-I99)<sup>2</sup></b>	<b>(16,488)</b>	<b>(339.5)</b>	<b>(15,665)</b>	<b>(314.0)</b>	<b>(16,066)</b>	<b>(313.0)</b>	**	**	**	<b>(16,381)</b>	<b>(311.0)</b>
Major Cardiovascular Dis. (390-434,436-448)(I00-I78)	(16,424)	(338.3)	(15,622)	(313.2)	(16,002)	(311.8)	(1.00)	(16,002)	(311.8)	(16,330)	(310.1)
Dis. Heart(390-398,402,404,410-429)(I00-I09,I11,I13,I20-I51)	(11,794)	(242.3)	(11,108)	(222.2)	(11,473)	(223.2)	(0.99)	(11,358)	(220.9)	(11,477)	(217.6)
Acute & Chronic Rheumatic Dis. (390-398)(I00-I09)	153	3.1	121	2.4	117	2.3	0.82	96	1.9	108	2.1
Hypertensive Heart Disease (402)(I11)	388	8.0	394	7.9	441	8.5	0.80	353	6.8	354	6.7
Hypertensive Heart & Renal Disease (404)(I13)	34	0.7	27	0.5	36	0.7	1.07	39	0.8	68	1.3
Ischemic Heart Diseases (410-414,429.2)(I20-I25)	(8,942)	(183.6)	(8,350)	(167.0)	(8,532)	(166.0)	(1.00)	(8,532)	(166.0)	(8,650)	(164.1)
Acute Myocardial Infarction (410)(I21-I22)	3,163	64.7	2,812	56.1	2,906	56.5	0.99	2,877	55.9	2,809	53.3
Other Acute Ischemic Heart Dis. (411)(I24)	10	0.2	5	0.1	7	0.1	1.01	7	0.1	11	0.2
Other Chronic Ischemic Hrt. Dis. (412-414,429.2)(I20, I25)	(5,769)	(118.7)	(5,533)	(110.9)	(5,619)	(109.4)	(1.01)	(5,675)	(110.5)	(5,830)	(110.6)
Atherosclerotic Cardiovascular Dis. (429.2)(I25.0)	1,644	33.7	1,535	30.7	1,653	32.0	1.05	1,736	33.6	1,856	34.9
All Other Chronic Dis. (412-414)(I20, I25.1-I25.9)	4,125	85.0	3,998	80.2	3,966	77.4	0.99	3,926	76.6	3,974	75.7
Other Heart Dis. (415-429.1,429.3-429.9)(I26-I51)	(2,277)	(46.9)	(2,216)	(44.3)	(2,347)	(45.6)	(0.97)	(2,277)	(44.3)	(2,297)	(43.4)
Acute & Subacute Endocarditis (421)(I33)	7	0.1	21	0.4	18	0.3	1.00	18	0.3	24	0.4
Dis.Pericard.&Ac.Myocarditis(420,422-423)(I30-I31,I40)	19	0.4	15	0.3	14	0.3	1.03	14	0.3	13	0.2
Heart Failure (428)(I50)	750	15.8	712	14.5	698	13.8	1.04	726	14.3	537	10.3
All Other Heart Disease (Residual)	1,501	30.6	1,468	29.1	1,617	31.3	0.94	1,520	29.4	1,723	32.5
Hypertension, Hypertensive Renal Dis. (401,403)(I10,I12)	214	4.4	198	4.0	227	4.5	1.12	254	5.0	286	5.5
Cerebrovascular Diseases (430-434,436-438)(I60-I69)	3,529	73.3	3,363	67.9	3,405	66.6	1.06	3,609	70.6	3,705	70.6
Atherosclerosis (440)(I70)	360	7.5	339	6.9	334	6.6	0.96	321	6.3	345	6.6
Other Dis. of Circulatory System (441-448)(I71-I78)	(527)	(10.8)	(614)	(12.2)	(563)	(10.9)	(0.95)	(535)	(10.4)	(517)	(9.8)
Aortic Aneurysm & Dissection (441)(I71)	345	7.0	391	7.8	335	6.5	1.00	335	6.5	317	6.0
Other Disease of Arteries (442-448)(I72-I78)	182	3.7	223	4.5	228	4.4	0.85	194	3.8	200	3.8
Other (451-459)(I80-I99)	64	1.3	43	0.8	64	1.2	1.03	66	1.3	51	1.0

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population. Does not include deaths where age is unknown.

<sup>2</sup>Group totals are shown in parentheses.

\*\* Comparability ratio not available.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999. Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S3c. Number of Deaths and Age-Adjusted Death Rates to Residents Due to Selected Causes, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	1990		1991		1992		1993		1994		1995	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>Dis. of Respiratory System (034.0,460-519)(J00-J98)<sup>2</sup></b>	<b>(3,756)</b>	<b>(91.2)</b>	<b>(3,724)</b>	<b>(87.6)</b>	<b>(3,874)</b>	<b>(88.2)</b>	<b>(4,286)</b>	<b>(95.2)</b>	<b>(4,180)</b>	<b>(90.6)</b>	<b>(4,215)</b>	<b>(89.0)</b>
Influenza and Pneumonia (480-487)(J10-J18)	(1,406)	(35.8)	(1,352)	(33.3)	(1,330)	(31.6)	(1,594)	(36.7)	(1,484)	(33.1)	(1,555)	(33.5)
Influenza (487)(J10-J11)	61	1.6	28	0.7	23	0.6	49	1.1	50	1.1	24	0.5
Pneumonia (480-486)(J12-J18)	1,345	34.2	1,324	32.6	1,307	31.1	1,545	35.5	1,434	32.0	1,531	33.0
Other Acute Lower Respiratory Infections (466)(J20-J22)	6	0.1	6	0.1	6	0.1	17	0.4	3	*	7	0.2
Chronic Lower Respiratory Disease (490-494,496)(J40-J47)	(1,939)	(45.4)	(1,967)	(44.8)	(2,117)	(47.0)	(2,248)	(48.7)	(2,267)	(48.3)	(2,181)	(45.4)
Bronchitis, Chronic and Unspecified (490-491)(J40-J42)	66	1.6	66	1.6	81	1.8	67	1.5	66	1.4	53	1.1
Emphysema (492)(J43)	349	8.0	292	6.6	340	7.5	360	7.7	382	8.1	391	8.1
Asthma (493)(J45-J46)	119	2.8	109	2.5	123	2.7	105	2.2	123	2.6	125	2.5
Other Chronic Lower Respiratory Dis. (494,496)(J44,J47)	1,405	32.9	1,500	34.2	1,573	34.9	1,716	37.3	1,696	36.2	1,612	33.6
Pneumoconioses & Chemical Effects (500-506)(J60-J66,J68)	15	0.4	20	0.4	13	0.3	22	0.5	18	0.4	8	0.2
Pneumonitis Due to Solids & Liquids (507)(J69)	144	3.6	130	3.2	146	3.4	153	3.5	143	3.2	180	3.9
Other (Residual)	246	5.9	249	5.7	262	5.8	252	5.4	265	5.6	284	5.9
<b>Diseases of Digestive System (520-579)(K00-K92)</b>	<b>(1,293)</b>	<b>(30.8)</b>	<b>(1,257)</b>	<b>(29.2)</b>	<b>(1,349)</b>	<b>(30.3)</b>	<b>(1,405)</b>	<b>(30.8)</b>	<b>(1,384)</b>	<b>(29.5)</b>	<b>(1,378)</b>	<b>(28.6)</b>
Peptic Ulcer (531-534)(K25-K28)	119	2.9	124	3.0	104	2.4	113	2.5	130	2.8	115	2.5
Diseases of Appendix (540-543)(K35-K38)	7	0.2	2	*	5	0.1	5	0.1	7	0.1	7	0.1
Hernia (550-553)(K40-K46)	23	0.6	28	0.7	29	0.7	20	0.5	22	0.5	22	0.5
Chronic Liver Disease & Cirrhosis (571)(K70,K73-K74)	(415)	(9.2)	(405)	(8.9)	(480)	(10.3)	(458)	(9.6)	(472)	(9.6)	(443)	(8.8)
Alcoholic Liver Disease (571.0-571.3)(K70)	208	4.6	202	4.4	277	6.0	330	6.9	375	7.6	342	6.7
Other (571.4-571.9)(K73-K74)	207	4.7	203	4.5	203	4.4	128	2.7	97	2.0	101	2.0
Cholelithiasis & Other Gallbladder Dis. (574-575)(K80-K82)	41	1.0	32	0.8	45	1.0	47	1.0	46	1.0	53	1.1
Other (Residual)	688	16.9	666	15.8	686	15.8	762	17.1	707	15.4	738	15.6
<b>Dis. Skin &amp; Subcutaneous Tissue (680-709)(L00-L98)</b>	<b>(32)</b>	<b>(0.8)</b>	<b>(42)</b>	<b>(1.0)</b>	<b>(33)</b>	<b>(0.8)</b>	<b>(40)</b>	<b>(0.9)</b>	<b>(29)</b>	<b>(0.7)</b>	<b>(39)</b>	<b>(0.8)</b>
<b>Dis. Musculoskeletal &amp; Connective (710-739)(M00-M99)</b>	<b>(131)</b>	<b>(3.2)</b>	<b>(131)</b>	<b>(3.1)</b>	<b>(178)</b>	<b>(4.0)</b>	<b>(162)</b>	<b>(3.6)</b>	<b>(169)</b>	<b>(3.7)</b>	<b>(175)</b>	<b>(3.7)</b>

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population. Does not include deaths where age is unknown.

<sup>2</sup>Group totals are shown in parentheses.

\* Rate not calculated because number of deaths was less than 5.

\*\* Comparability ratio not available.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

continued Table S3c. Number of Deaths and Age-Adjusted Death Rates to Residents Due to Selected Causes, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	1996		1997		1998		Comparability Ratio	Comparability Modified 1998		1999 (ICD-10)	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>		No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>Dis. of Respiratory System (034.0,460-519)(J00-J98)<sup>2</sup></b>	<b>(4,403)</b>	<b>(90.5)</b>	<b>(4,580)</b>	<b>(91.6)</b>	<b>(4,720)</b>	<b>(92.1)</b>	**	**	**	<b>(4,711)</b>	<b>(89.8)</b>
Influenza and Pneumonia (480-487)(J10-J18)	(1,650)	(34.4)	(1,646)	(33.2)	(1,717)	(33.7)	(0.70)	(1,202)	(23.6)	(1,258)	(23.9)
Influenza (487)(J10-J11)	30	0.6	32	0.6	23	0.5	1.01	23	0.5	48	0.9
Pneumonia (480-486)(J12-J18)	1,620	33.8	1,614	32.5	1,694	33.2	0.70	1,186	23.2	1,210	23.0
Other Acute Lower Respiratory Infections (466)(J20-J22)	5	0.1	3	*	4	*	0.97	4	*	8	0.1
Chronic Lower Respiratory Disease (490-494,496)(J40-J47)	(2,260)	(46.0)	(2,346)	(46.7)	(2,401)	(46.7)	(1.05)	(2,521)	(49.1)	(2,706)	(51.6)
Bronchitis, Chronic and Unspecified (490-491)(J40-J42)	64	1.3	47	0.9	68	1.3	0.39	27	0.5	17	0.3
Emphysema (492)(J43)	343	6.9	355	7.0	323	6.3	0.97	313	6.1	334	6.4
Asthma (493)(J45-J46)	126	2.5	102	2.0	86	1.6	0.89	77	1.4	88	1.6
Other Chronic Lower Respiratory Dis. (494,496)(J44,J47)	1,727	35.2	1,842	36.8	1,924	37.5	1.10	2,116	41.3	2,267	43.3
Pneumoconioses & Chemical Effects (500-506)(J60-J66,J68)	20	0.4	22	0.4	32	0.6	1.02	33	0.6	31	0.6
Pneumonitis Due to Solids & Liquids (507)(J69)	161	3.4	229	4.6	238	4.7	1.12	267	5.2	308	5.9
Other (Residual)	307	6.2	334	6.6	328	6.3	1.17	384	7.4	400	7.6
<b>Diseases of Digestive System (520-579)(K00-K92)</b>	<b>(1,444)</b>	<b>(29.1)</b>	<b>(1,484)</b>	<b>(29.1)</b>	<b>(1,431)</b>	<b>(27.3)</b>	**	**	**	<b>(1,582)</b>	<b>(29.5)</b>
Peptic Ulcer (531-534)(K25-K28)	111	2.3	95	1.9	94	1.8	0.97	91	1.8	106	2.0
Diseases of Appendix (540-543)(K35-K38)	10	0.2	3	*	5	0.1	1.03	5	0.1	8	0.1
Hernia (550-553)(K40-K46)	31	0.6	32	0.6	22	0.4	1.04	23	0.4	38	0.7
Chronic Liver Disease & Cirrhosis (571)(K70,K73-K74)	(475)	(9.2)	(511)	(9.7)	(462)	(8.5)	(1.04)	(480)	(8.9)	(530)	(9.6)
Alcoholic Liver Disease (571.0-571.3)(K70)	396	7.6	413	7.8	377	6.9	1.02	385	7.0	418	7.5
Other (571.4-571.9)(K73-K74)	79	1.6	98	1.9	85	1.6	1.05	89	1.7	112	2.1
Cholelithiasis & Other Gallbladder Dis. (574-575)(K80-K82)	39	0.8	43	0.9	48	0.9	0.96	46	0.9	52	1.0
Other (Residual)	778	16.0	800	16.0	800	15.5	**	**	**	848	16.0
<b>Dis. Skin &amp; Subcutaneous Tissue (680-709)(L00-L98)</b>	<b>(43)</b>	<b>(0.9)</b>	<b>(39)</b>	<b>(0.8)</b>	<b>(40)</b>	<b>(0.8)</b>	**	**	**	<b>(49)</b>	<b>(0.9)</b>
<b>Dis. Musculoskeletal &amp; Connective (710-739)(M00-M99)</b>	<b>(209)</b>	<b>(4.3)</b>	<b>(196)</b>	<b>(3.9)</b>	<b>(227)</b>	<b>(4.4)</b>	**	**	**	<b>(292)</b>	<b>(5.5)</b>

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population. Does not include deaths where age is unknown.

<sup>2</sup>Group totals are shown in parentheses.

\* Rate not calculated because number of deaths was less than 5.

\*\* Comparability ratio not available.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S3d. Number of Deaths and Age-Adjusted Death Rates to Residents Due to Selected Causes, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	1990		1991		1992		1993		1994		1995	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>Dis. of Genitourinary System (580-629)(N00-N98)<sup>2</sup></b>	<b>(404)</b>	<b>(10.2)</b>	<b>(385)</b>	<b>(9.3)</b>	<b>(414)</b>	<b>(9.6)</b>	<b>(396)</b>	<b>(9.0)</b>	<b>(410)</b>	<b>(9.1)</b>	<b>(396)</b>	<b>(8.5)</b>
Nephritis (580-589)(N00-N07, N17-N19, N25-N27)	(176)	(4.3)	(176)	(4.2)	(182)	(4.2)	(165)	(3.7)	(164)	(3.6)	(173)	(3.7)
Acute Nephrotic Syndrome (580-581)(N00-N01, N04)	4	*	8	0.2	8	0.2	5	0.1	9	0.2	7	0.2
Chr. Nephritis & Unsp. Nephri(582-583,587)(N02-N03,N05-N07,N26)	30	0.7	37	0.9	43	1.0	44	1.0	32	0.7	31	0.6
Renal Failure (584-586)(N17-N19)	142	3.5	127	3.0	128	3.0	114	2.6	121	2.7	134	2.9
Other Disorders of Kidney (588-589)(N25, N27)	0	*	4	*	3	*	2	*	2	*	1	*
Infections of Kidney (590)(N10-N12, N13.6, N15.1)	0	*	0	*	0	*	0	*	0	*	0	*
Hyperplasia of Prostate (600)(N40)	11	0.9	12	0.9	11	0.7	6	0.4	5	0.3	6	0.4
Other(Residual)	217	5.5	197	4.8	221	5.2	225	5.2	241	5.4	217	4.7
<b>Pregnancy, Childbirth, Puerperium (630-676)(O00-O99)</b>	<b>(4)</b>	<b>(*)</b>	<b>(3)</b>	<b>(*)</b>	<b>(3)</b>	<b>(*)</b>	<b>(6)</b>	<b>(0.2)</b>	<b>(3)</b>	<b>(*)</b>	<b>(0)</b>	<b>(*)</b>
<b>Perinatal Conditions (760-771.2,771.4-779)(P00-P96)</b>	<b>(194)</b>	<b>(3.4)</b>	<b>(214)</b>	<b>(3.7)</b>	<b>(174)</b>	<b>(3.0)</b>	<b>(151)</b>	<b>(2.6)</b>	<b>(170)</b>	<b>(3.0)</b>	<b>(176)</b>	<b>(3.1)</b>
<b>Congenital Anomalies (740-759)(Q00-Q99)</b>	<b>(246)</b>	<b>(4.7)</b>	<b>(257)</b>	<b>(4.9)</b>	<b>(253)</b>	<b>(4.7)</b>	<b>(236)</b>	<b>(4.4)</b>	<b>(260)</b>	<b>(4.9)</b>	<b>(258)</b>	<b>(4.8)</b>
<b>Not Elsewhere Classified (780-799)(R00-R99)</b>	<b>(362)</b>	<b>(7.4)</b>	<b>(302)</b>	<b>(6.0)</b>	<b>(223)</b>	<b>(4.3)</b>	<b>(232)</b>	<b>(4.4)</b>	<b>(214)</b>	<b>(4.1)</b>	<b>(198)</b>	<b>(3.8)</b>
Sudden Infant Death Syndrome (798.0)(R95)	185	3.2	177	3.1	130	2.2	140	2.5	115	2.1	101	1.8
Other (Residual)	177	4.2	125	2.9	93	2.0	92	2.0	99	2.0	97	2.0
<b>External Causes (E800-E999)(V01-Y89)</b>	<b>(2,836)</b>	<b>(59.5)</b>	<b>(2,648)</b>	<b>(54.6)</b>	<b>(2,791)</b>	<b>(56.0)</b>	<b>(2,745)</b>	<b>(54.1)</b>	<b>(2,901)</b>	<b>(55.9)</b>	<b>(3,035)</b>	<b>(57.1)</b>
Accidents (E800-E869,E880-E929)(V01-X59, Y85-Y86)	(1,750)	(37.0)	(1,587)	(33.1)	(1,670)	(34.0)	(1,642)	(32.7)	(1,705)	(33.2)	(1,809)	(34.5)
Transport Accidents (E800-E848,E929.0-E929.1)(V01-V99, Y85)	1,023	20.8	852	17.1	830	16.3	810	15.7	810	15.4	855	16.0
Nontransport(E850-E869,E880-E928,E929.2-E929.9)(W00-X59,Y86)	727	16.2	735	16.0	840	17.7	832	17.1	895	17.8	954	18.5
Intentional Self-Harm (Suicide) (E950-E959)(X60-X84,Y87.0)	678	14.2	688	14.2	700	13.9	695	13.6	760	14.6	794	14.8
Accidents (E800-E869,E880-E929)(V01-X59, Y85-Y86)	250	5.0	238	4.6	294	5.6	276	5.2	314	5.8	298	5.4
Legal Intervention (E970-E978)(Y35, Y89.0)	5	0.1	4	*	5	0.1	7	0.1	10	0.2	7	0.1
Events Undetermined Intent (E980-E989)(Y10-Y34,Y87.2,Y89.9)	120	2.4	90	1.8	92	1.8	107	2.1	103	1.9	100	1.8
Operations of War & Sequelae (E990-E999)(Y36,Y89.1)	0	*	0	*	0	*	1	*	0	*	0	*
Complications Medical Care (E870-E879,E930-E949)(Y40-Y84,Y88)	33	0.8	41	0.9	30	0.7	17	0.4	9	0.2	27	0.6

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population. Does not include deaths where age is unknown.

<sup>2</sup>Group totals are shown in parentheses.

\* Rate not calculated because number of deaths was less than 5.

\*\* Comparability ratio not available.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999. Rates based on fewer than 20 deaths are likely to be unstable and imprecise.



continued Table S3d. Number of Deaths and Age-Adjusted Death Rates to Residents Due to Selected Causes, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	1996		1997		1998		Comparability Ratio	Comparability Modified 1998		1999 (ICD-10)	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>		No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>Dis. of Genitourinary System (580-629)(N00-N98)<sup>2</sup></b>	<b>(469)</b>	<b>(9.7)</b>	<b>(509)</b>	<b>(10.2)</b>	<b>(541)</b>	<b>(10.6)</b>	**	**	**	<b>(542)</b>	<b>(10.3)</b>
Nephritis (580-589)(N00-N07, N17-N19, N25-N27)	(201)	(4.2)	(226)	(4.5)	(221)	(4.3)	(1.23)	(272)	(5.3)	(276)	(5.2)
Acute Nephrotic Syndrome (580-581)(N00-N01, N04)	4	*	7	0.1	7	0.1	0.65	5	0.1	5	0.1
Chr. Nephritis & Unsp. Neph(582-583,587)(N02-N03,N05-N07,N26)	34	0.7	48	0.9	46	0.9	0.39	18	0.4	15	0.3
Renal Failure (584-586)(N17-N19)	162	3.4	171	3.4	167	3.3	1.29	215	4.2	253	4.8
Other Disorders of Kidney (588-589)(N25, N27)	1	*	0	*	1	*	0.91	1	*	3	*
Infections of Kidney (590)(N10-N12, N13.6, N15.1)	0	*	0	*	0	*	1.01	0	*	14	0.3
Hyperplasia of Prostate (600)(N40)	8	0.5	14	0.8	13	0.7	1.00	13	0.3	16	0.8
Other(Residual)	260	5.4	269	5.4	307	6.0	**	**	**	236	4.5
<b>Pregnancy, Childbirth, Puerperium (630-676)(O00-O99)</b>	<b>(3)</b>	<b>(*)</b>	<b>(2)</b>	<b>(*)</b>	<b>(3)</b>	<b>(*)</b>	**	**	**	<b>(6)</b>	<b>(0.2)</b>
<b>Perinatal Conditions (760-771.2,771.4-779)(P00-P96)</b>	<b>(180)</b>	<b>(3.2)</b>	<b>(156)</b>	<b>(2.8)</b>	<b>(182)</b>	<b>(3.2)</b>	<b>(1.07)</b>	<b>(195)</b>	<b>(3.4)</b>	<b>(171)</b>	<b>(3.0)</b>
<b>Congenital Anomalies (740-759)(Q00-Q99)</b>	<b>(289)</b>	<b>(5.3)</b>	<b>(250)</b>	<b>(4.5)</b>	<b>(252)</b>	<b>(4.5)</b>	<b>(0.85)</b>	<b>(214)</b>	<b>(3.8)</b>	<b>(209)</b>	<b>(3.7)</b>
<b>Not Elsewhere Classified (780-799)(R00-R99)</b>	<b>(213)</b>	<b>(4.1)</b>	<b>(211)</b>	<b>(3.9)</b>	<b>(274)</b>	<b>(5.0)</b>	<b>(0.96)</b>	<b>(263)</b>	<b>(4.8)</b>	<b>(241)</b>	<b>(4.4)</b>
Sudden Infant Death Syndrome (798.0)(R95)	80	1.4	84	1.5	91	1.6	1.04	95	1.6	67	1.2
Other (Residual)	133	2.6	127	2.5	183	3.4	**	**	**	174	3.2
<b>External Causes (E800-E999)(V01-Y89)</b>	<b>(3,045)</b>	<b>(56.5)</b>	<b>(2,990)</b>	<b>(54.7)</b>	<b>(2,965)</b>	<b>(53.5)</b>	**	**	**	<b>(3,058)</b>	<b>(54.1)</b>
Accidents (E800-E869,E880-E929)(V01-X59, Y85-Y86)	(1,877)	(35.2)	(1,864)	(34.4)	(1,891)	(34.3)	(1.03)	(1,948)	(35.4)	(1,913)	(34.0)
Transport Accidents (E800-E848,E929.0-E929.1)(V01-V99, Y85)	865	15.9	837	15.2	815	14.6	1.00	815	14.6	810	14.3
Nontransport(E850-E869,E880-E928,E929.2-E929.9)(W00-X59,Y86)	1,012	19.3	1,027	19.2	1,076	19.7	1.08	1,162	21.3	1,103	19.7
Intentional Self-Harm (Suicide) (E950-E959)(X60-X84,Y87.0)	785	14.4	728	13.2	700	12.5	1.00	700	12.5	819	14.4
Assault (Homicide) (E960-E969)(X85-Y09, Y87.1)	255	4.6	258	4.7	235	4.1	1.00	235	4.1	190	3.3
Legal Intervention (E970-E978)(Y35, Y89.0)	9	0.2	3	*	2	*	**	**	**	9	0.2
Events Undetermined Intent (E980-E989)(Y10-Y34,Y87.2,Y89.9)	108	1.9	99	1.7	97	1.7	**	**	**	100	1.7
Operations of War & Sequelae (E990-E999)(Y36,Y89.1)	0	*	0	*	1	*	**	**	**	2	*
Complications Medical Care (E870-E879,E930-E949)(Y40-Y84,Y88)	11	0.2	38	0.7	39	0.7	**	**	**	25	0.5

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population. Does not include deaths where age is unknown.

<sup>2</sup>Group totals are shown in parentheses.

\* Rate not calculated because number of deaths was less than 5.

\*\* Comparability ratio not available.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999. Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S4. Number of Deaths and Age-Adjusted Death Rates to Residents Due to Malignant Neoplasms, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	1990		1991		1992		1993		1994		1995	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>All Sites Combined (140-208) (C00-C97)</b>	<b>8,993</b>	<b>206.8</b>	<b>9,193</b>	<b>206.9</b>	<b>9,547</b>	<b>209.6</b>	<b>9,911</b>	<b>212.8</b>	<b>9,804</b>	<b>205.6</b>	<b>10,022</b>	<b>205.6</b>
Bladder (188) (C67)	185	4.4	184	4.3	197	4.5	207	4.5	229	4.9	230	4.8
Brain, Meninges, & CNS (191-192) (C70-C72) <sup>2</sup>	281	6.3	283	6.3	277	5.9	296	6.2	280	5.6	252	5.0
Brain (191) (C71)	276	6.1	276	6.1	268	5.7	290	6.0	273	5.5	246	4.9
Breast, Females (174) (C50)	745	31.3	780	31.8	781	31.1	812	31.5	746	28.2	821	30.3
Cervix (180) (C53)	72	3.1	63	2.6	52	2.1	67	2.5	71	2.7	74	2.8
Colorectal (153-154) (C18-C21) <sup>2</sup>	876	20.5	888	20.2	959	21.4	967	21.1	1,010	21.5	1,008	21.0
Endometrium & Uterus (179,182) (C54-C55) <sup>2</sup>	105	4.2	96	3.8	100	3.9	109	4.1	95	3.5	96	3.5
Endometrium (182) (C54)	56	2.3	54	2.1	63	2.4	63	2.4	40	1.5	44	1.6
Esophagus (150) (C15)	191	4.4	203	4.6	184	4.0	206	4.4	220	4.6	218	4.5
Hodgkin's Disease (201) (C81)	32	0.7	31	0.6	18	0.4	33	0.7	25	0.5	30	0.6
Kidney & Renal Pelvis (189.0-189.1) (C64-C65)	157	3.6	171	3.8	175	3.8	185	4.0	196	4.1	187	3.8
Larynx (161) (C32)	43	0.9	59	1.3	58	1.3	55	1.2	51	1.1	59	1.2
Leukemia (204-208) (C91-C95)	319	7.3	359	8.0	375	8.1	403	8.6	394	8.3	403	8.2
Liver (155) (C22)	155	3.6	161	3.6	170	3.7	190	4.1	190	4.0	198	4.0
Lung, Bronchus & Trachea (162) (C33-C34) <sup>2</sup>	2,647	59.9	2,624	58.3	2,815	61.0	2,935	62.4	2,831	58.8	2,911	59.4
Lung & Bronchus (162.2-162.9) (C34)	2,647	59.9	2,623	58.2	2,815	61.0	2,935	62.4	2,830	58.8	2,909	59.4
Melanoma of Skin (172) (C43)	131	3.0	139	3.1	142	3.1	127	2.7	107	2.2	147	2.9
Multiple Myeloma & Immunoproliferative (203) (C88,C90) <sup>2</sup>	174	4.1	166	3.8	174	3.8	196	4.2	210	4.4	209	4.3
Multiple Myeloma (203.0-203.1) (C90)	174	4.1	166	3.8	173	3.8	195	4.2	209	4.4	207	4.3
Non-Hodgkin's Lymphoma (200,202) (C82-C85)	369	8.4	364	8.3	422	9.2	378	8.2	421	8.8	438	9.0
Oral Cavity & Pharynx (140-149) (C00-C14)	138	3.2	149	3.4	149	3.3	156	3.4	166	3.5	166	3.4
Ovary (183.0) (C56)	256	10.6	285	11.4	287	11.3	271	10.5	297	11.3	302	11.1
Pancreas (157) (C25)	496	11.5	465	10.4	483	10.7	502	10.8	501	10.6	509	10.5
Prostate (185) (C61)	573	35.5	667	41.4	651	37.8	687	40.1	662	37.3	618	34.2
Stomach (151) (C16)	240	5.6	240	5.4	222	4.9	226	4.9	217	4.6	246	5.0
Testis (186) (C62)	8	0.3	7	0.3	7	0.3	10	0.4	2	*	11	0.4
Thyroid & Endocrine Glands (193-194) (C73-C75) <sup>2</sup>	32	0.7	33	0.7	32	0.7	45	1.0	40	0.8	40	0.8
Thyroid (193) (C73)	18	0.4	20	0.4	19	0.4	24	0.5	19	0.4	24	0.5
Site Unspecified (199) (C80)	368	8.6	390	8.9	433	9.6	415	9.0	442	9.4	444	9.1
All Other Sites (Residual)	398	9.1	382	8.6	380	8.4	430	9.3	393	8.2	397	8.2

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population. Does not include deaths where age is unknown.

<sup>2</sup>The ICD-10 codes selected for these groups differ slightly from Cancer Registry groups. See <http://198.187.0.44/WSCR/> to obtain reports of the Washington State Cancer Registry or to obtain information about other cancer sites.

\* Rate not calculated because number of deaths was less than 5. \*\* Comparability ratio not available.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

continued Table S4. Number of Deaths and Age-Adjusted Death Rates to Residents Due to Malignant Neoplasms, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	1996		1997		1998		Comparability Ratio	Comparability Modified 1998		1999 (ICD-10)	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>		No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>All Sites Combined (140-208) (C00-C97)</b>	<b>10,162</b>	<b>203.7</b>	<b>10,065</b>	<b>197.5</b>	<b>10,270</b>	<b>197.0</b>	<b>1.01</b>	<b>10,373</b>	<b>199.0</b>	<b>10,641</b>	<b>200.0</b>
Bladder (188) (C67)	214	4.4	208	4.1	227	4.4	1.00	227	4.4	225	4.3
Brain, Meninges, & CNS (191-192) (C70-C72) <sup>2</sup>	309	6.0	305	5.8	315	5.9	0.97	306	5.7	336	6.1
Brain (191) (C71)	299	5.8	304	5.8	304	5.7	**	**	**	327	5.9
Breast, Females (174) (C50)	785	28.4	796	28.0	753	26.0	1.01	761	26.2	722	24.1
Cervix (180) (C53)	58	2.1	60	2.1	77	2.7	0.99	76	2.7	59	2.0
Colorectal (153-154) (C18-C21) <sup>2</sup>	1,029	20.8	955	18.9	968	18.7	1.00	968	18.7	992	18.7
Endometrium & Uterus (179,182) (C54-C55) <sup>2</sup>	118	4.1	102	3.5	121	4.1	1.03	125	4.2	116	3.9
Endometrium (182) (C54)	65	2.3	59	2.1	68	2.3	**	**	**	54	1.8
Esophagus (150) (C15)	206	4.2	234	4.6	252	4.8	1.00	252	4.8	265	5.0
Hodgkin's Disease (201) (C81)	31	0.6	23	0.4	27	0.5	0.99	27	0.5	34	0.6
Kidney & Renal Pelvis (189.0-189.1) (C64-C65)	210	4.2	217	4.2	254	4.9	1.00	254	4.9	233	4.4
Larynx (161) (C32)	64	1.3	53	1.0	47	0.9	1.00	47	0.9	70	1.3
Leukemia (204-208) (C91-C95)	406	8.1	399	7.7	392	7.5	1.01	396	7.6	454	8.5
Liver (155) (C22)	206	4.1	215	4.2	243	4.6	0.96	233	4.4	247	4.6
Lung, Bronchus & Trachea (162) (C33-C34) <sup>2</sup>	2,946	58.8	2,863	56.3	3,034	58.4	0.98	2,973	57.2	3,054	57.7
Lung & Bronchus (162.2-162.9) (C34)	2,946	58.8	2,860	56.2	3,031	58.3	**	**	**	3,052	57.6
Melanoma of Skin (172) (C43)	154	3.0	176	3.4	157	2.9	0.97	152	2.8	178	3.3
Multiple Myeloma & Immunoproliferative (203) (C88,C90) <sup>2</sup>	221	4.5	196	3.9	223	4.3	1.04	232	4.5	235	4.5
Multiple Myeloma (203.0-203.1) (C90)	220	4.4	196	3.9	223	4.3	**	**	**	226	4.3
Non-Hodgkin's Lymphoma (200,202) (C82-C85)	442	8.9	463	9.1	473	9.1	0.98	464	8.9	493	9.3
Oral Cavity & Pharynx (140-149) (C00-C14)	130	2.6	170	3.3	149	2.8	0.96	143	2.7	149	2.8
Ovary (183.0) (C56)	299	10.7	322	11.3	260	8.9	1.00	260	8.9	307	10.3
Pancreas (157) (C25)	560	11.3	542	10.7	583	11.2	1.00	583	11.2	557	10.5
Prostate (185) (C61)	638	33.9	590	31.1	576	29.2	1.01	582	29.5	599	30.0
Stomach (151) (C16)	248	5.0	207	4.1	204	3.9	1.01	206	3.9	213	4.0
Testis (186) (C62)	6	0.2	7	0.2	9	0.3	**	**	**	12	0.4
Thyroid & Endocrine Glands (193-194) (C73-C75) <sup>2</sup>	38	0.7	41	0.8	36	0.7	**	**	**	35	0.6
Thyroid (193) (C73)	18	0.4	17	0.3	21	0.4	**	**	**	18	0.3
Site Unspecified (199) (C80)	434	8.8	483	9.6	431	8.3	**	**	**	416	7.8
All Other Sites (Residual)	406	8.2	428	8.4	456	8.7	**	**	**	632	11.9

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population. Does not include deaths where age is unknown.

<sup>2</sup>The ICD-10 codes selected for these groups differ slightly from Cancer Registry groups. See <http://198.187.0.44/WSCR/> to obtain reports of the Washington State Cancer Registry or to obtain information about other cancer sites.

\* Rate not calculated because number of deaths was less than 5. \*\* Comparability ratio not available.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999. Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S5a. Number of Deaths and Age-Adjusted Death Rates Due to Selected External Causes, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	1990		1991		1992		1993		1994		1995	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>External Causes (E800-E999)(V01-Y89)<sup>2</sup></b>	<b>(2,836)</b>	<b>(59.5)</b>	<b>(2,648)</b>	<b>(54.6)</b>	<b>(2,791)</b>	<b>(56.0)</b>	<b>(2,745)</b>	<b>(54.1)</b>	<b>(2,901)</b>	<b>(55.9)</b>	<b>(3,035)</b>	<b>(57.1)</b>
Accidents (E800-E869,E880-E929)(V01-X59,Y85-Y86)	(1,750)	(37.0)	(1,587)	(33.1)	(1,670)	(34.0)	(1,642)	(32.7)	(1,705)	(33.2)	(1,809)	(34.5)
Transport (E800-E848,E929.0-E929.1)(V01-V99,Y85)	(1,023)	(20.8)	(852)	(17.1)	(830)	(16.3)	(810)	(15.7)	(810)	(15.4)	(855)	(16.0)
Pedestrian(E800-E807(.2),E810-E825(.7),E826-E829(.0))(V01-V09)	110	2.4	114	2.3	99	2.0	102	2.0	116	2.2	110	2.1
Bicycle (E800-E807(.3),E810-E825(.6),E826(.1,.9))(V10-V19)	17	0.4	7	0.1	10	0.2	8	0.2	18	0.3	17	0.3
Motorcycle (E810-E825(.2,.3)(V20-V29)	67	1.3	38	0.7	50	1.0	45	0.8	35	0.6	39	0.7
Motor Vehicle (E810-E825(.0,.1))(V30-V79)	699	14.1	589	11.8	537	10.5	559	10.8	543	10.4	569	10.7
Agricultural Vehicle (E919.0)(V84)	12	0.3	14	0.3	11	0.2	15	0.3	5	0.1	6	0.1
Water Transport, Drowning (E830,E832)(V90,V92)	45	0.9	26	0.5	22	0.4	22	0.4	30	0.6	36	0.7
Water Transport, Other (E831,E837,E838)(V91,V93)	5	0.1	5	0.1	6	0.1	8	0.2	5	0.1	2	*
Air & Space (E840-E845)(V95-V97)	24	0.5	30	0.6	64	1.2	26	0.5	29	0.5	36	0.7
Other (Residual)	56	1.2	43	0.9	42	0.8	40	0.8	34	0.6	46	0.9
Falls (E880-E888)(W00-W19)	264	6.5	278	6.6	296	6.8	303	6.8	312	6.7	341	7.2
Struck By or Crushed (E916-E918)(W20-W23)	35	0.7	32	0.7	35	0.7	30	0.6	41	0.8	25	0.5
Firearms (E922)(W32-W34)	11	0.2	19	0.4	20	0.4	15	0.3	16	0.3	17	0.3
Explosive Materials & Fireworks (E921,E923)(W35-W40)	1	*	4	*	2	*	8	0.2	6	0.1	5	0.1
Drowning (E910)(W65-W74)	92	1.8	86	1.7	100	1.9	70	1.3	74	1.4	83	1.5
Suffocation & Obstruction (E913)(W75-W77)	26	0.6	22	0.4	26	0.5	30	0.6	37	0.7	18	0.3
Inhalation, Ingestion Food or Other Obj.(E911-E912)(W78-W80)	36	0.8	54	1.2	44	1.0	38	0.8	43	0.9	24	0.5
Fire, Smoke, & Flames (E890-E899)(X00-X09)	62	1.3	46	1.0	55	1.1	60	1.2	51	0.9	70	1.3
Heat & Burns (E924.0,E924.8-E924.9)(X10-X19)	2	*	1	*	3	*	1	*	0	*	4	*
Poisoning (E850-E869,E924.1)(X40-X49)	112	2.3	102	2.0	144	2.8	187	3.5	224	4.1	281	5.0
Other (Residual)	74	1.6	77	1.6	104	2.2	75	1.5	86	1.7	80	1.6

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population. Does not include deaths where age is unknown.

<sup>2</sup>Group totals are shown in parentheses.

\* Rate not calculated because number of deaths was less than 5.

\*\* Comparability ratio not available.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

continued Table S5a. Number of Deaths and Age-Adjusted Death Rates Due to Selected External Causes, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	1996		1997		1998		Comparability Ratio	Comparability Modified 1998		1999 (ICD-10)	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>		No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>External Causes (E800-E999)(V01-Y89)<sup>2</sup></b>	<b>(3,045)</b>	<b>(56.5)</b>	<b>(2,990)</b>	<b>(54.7)</b>	<b>(2,965)</b>	<b>(53.5)</b>	**	**	**	<b>(3,058)</b>	<b>(54.1)</b>
Accidents (E800-E869,E880-E929)(V01-X59,Y85-Y86)	(1,877)	(35.2)	(1,864)	(34.4)	(1,891)	(34.3)	(1.03)	(1,948)	(35.4)	(1,913)	(34.0)
Transport (E800-E848,E929.0-E929.1)(V01-V99,Y85)	(865)	(15.9)	(837)	(15.2)	(815)	(14.6)	(1.00)	(815)	(14.6)	(810)	(14.3)
Pedestrian(E800-E807(.2),E810-E825(.7),E826-E829(.0))(V01-V09)	114	2.1	101	1.9	101	1.8	**	**	**	99	1.7
Bicycle (E800-E807(.3),E810-E825(.6),E826(.1,.9))(V10-V19)	16	0.3	18	0.3	16	0.3	**	**	**	12	0.2
Motorcycle (E810-E825(.2,.3)(V20-V29)	45	0.8	31	0.5	49	0.9	**	**	**	44	0.8
Motor Vehicle (E810-E825(.0,.1))(V30-V79)	607	11.2	580	10.5	553	9.9	**	**	**	538	9.5
Agricultural Vehicle (E919.0)(V84)	9	0.2	15	0.3	10	0.2	**	**	**	3	*
Water Transport, Drowning (E830,E832)(V90,V92)	21	0.4	30	0.5	20	0.4	**	**	**	29	0.5
Water Transport, Other (E831,E837,E838)(V91,V93)	6	0.1	2	*	4	*	**	**	**	6	0.1
Air & Space (E840-E845)(V95-V97)	28	0.5	27	0.5	18	0.3	**	**	**	19	0.3
Other (Residual)	28	0.5	48	0.9	54	1.0	**	**	**	60	1.1
Falls (E880-E888)(W00-W19)	379	7.8	360	7.2	377	7.3	0.84	317	6.1	334	6.3
Struck By or Crushed (E916-E918)(W20-W23)	37	0.7	24	0.4	27	0.5	**	**	**	20	0.3
Firearms (E922)(W32-W34)	6	0.1	16	0.3	12	0.2	1.06	13	0.2	12	0.2
Explosive Materials & Fireworks (E921,E923)(W35-W40)	3	*	1	*	4	*	**	**	**	3	*
Drowning (E910)(W65-W74)	78	1.4	90	1.6	87	1.6	1.00	87	1.6	86	1.5
Suffocation & Obstruction (E913)(W75-W77)	24	0.4	23	0.4	21	0.4	**	**	**	18	0.3
Inhalation, Ingestion Food or Other Obj.(E911-E912)(W78-W80)	26	0.5	38	0.7	74	1.4	**	**	**	50	0.9
Fire, Smoke, & Flames (E890-E899)(X00-X09)	51	1.0	39	0.7	54	1.0	0.97	52	0.9	51	0.9
Heat & Burns (E924.0,E924.8-E924.9)(X10-X19)	1	*	5	0.1	1	*	**	**	**	3	*
Poisoning (E850-E869,E924.1)(X40-X49)	309	5.5	322	5.6	327	5.6	**	**	**	415	7.1
Other (Residual)	89	1.7	94	1.8	82	1.5	**	**	**	111	2.0

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population. Does not include deaths where age is unknown.

<sup>2</sup>Group totals are shown in parentheses.

\* Rate not calculated because number of deaths was less than 5.

\*\* Comparability ratio not available.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S5b. Number of Deaths and Age-Adjusted Death Rates Due to Selected External Causes, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	1990		1991		1992		1993		1994		1995	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
Intentional Self-Harm (Suicide) (E950-E959)(X60-X84,Y87.0) <sup>2</sup>	(678)	(14.2)	(688)	(14.2)	(700)	(13.9)	(695)	(13.6)	(760)	(14.6)	(794)	(14.8)
Poisoning (E950.0-E950.5)(X60-X69)	81	1.7	79	1.6	86	1.7	80	1.6	86	1.7	83	1.5
Hanging (E953)(X70)	81	1.6	92	1.9	109	2.2	80	1.5	127	2.4	110	2.0
Drowning (E954)(X71)	18	0.4	8	0.2	6	0.1	6	0.1	4	*	4	*
Firearms (E955.0-E955.4)(X72-X74)	377	8.0	396	8.2	392	7.8	431	8.5	436	8.4	460	8.7
Sharp Object (E956)(X78)	5	0.1	7	0.2	9	0.2	8	0.2	10	0.2	13	0.2
Jumping (E957)(X80)	17	0.3	24	0.5	21	0.4	15	0.3	22	0.4	27	0.5
Other (Residual)	99	2.1	82	1.6	77	1.5	75	1.5	75	1.4	97	1.8
Assault (Homicide) (E960-E969)(X85-Y09,Y87.1)	(250)	(5.0)	(238)	(4.6)	(294)	(5.6)	(276)	(5.2)	(314)	(5.8)	(298)	(5.4)
Poisoning (E961-E962)(X85-X90)	2	*	3	*	0	*	1	*	6	0.1	3	*
Hanging, Strangulation, & Suffocation (E963)(X91)	10	0.2	13	0.2	17	0.3	16	0.3	18	0.3	19	0.3
Firearms (E965.0-E965.4)(X93-X95)	141	2.7	123	2.4	168	3.2	167	3.1	200	3.7	173	3.1
Sharp Object (E966)(X99)	48	1.0	42	0.8	56	1.0	45	0.8	39	0.7	51	0.9
Other (Residual)	49	1.0	57	1.1	53	1.0	47	0.9	51	1.0	52	0.9
Undetermined (E980-E989)(Y10-Y34,Y87.2,Y89.9)	(120)	(2.4)	(90)	(1.8)	(92)	(1.8)	(107)	(2.1)	(103)	(1.9)	(100)	(1.8)
Poisoning (E980-E982)(Y10-Y19)	62	1.3	48	0.9	51	1.0	64	1.2	60	1.1	56	1.0
Drowning (E984)(Y21)	13	0.2	13	0.3	11	0.2	9	0.2	5	0.1	17	0.3
Firearms (E985.0-E985.4)(Y22-Y24)	7	0.1	7	0.1	11	0.2	7	0.1	16	0.3	10	0.2
Other (Residual)	38	0.8	22	0.5	19	0.4	27	0.5	22	0.4	17	0.3
Legal Intervention (E970-E978)(Y35,Y89.0)	5	0.1	4	*	5	0.1	7	0.1	10	0.2	7	0.1
Operations of War & Sequelae (E990-E999)(Y36,Y89.1)	0	*	0	*	0	*	1	*	0	*	0	*
Complic. Medical Care (E870-E879,E930-E949)(Y40-Y84,Y88)	(33)	(0.8)	(41)	(0.9)	(30)	(0.7)	(17)	(0.4)	(9)	(0.2)	(27)	(0.6)
Adverse Effects of Drugs (E930-E949)(Y40-Y59,Y88.0)	4	*	1	*	2	*	0	*	1	*	0	*
Misadventures (E870-E876)(Y60-Y69,Y88.1)	6	0.1	9	0.2	7	0.2	0	*	0	*	13	0.3
Other (E878-E879)(Y70-Y84,Y88.2-Y88.3)	23	0.5	31	0.7	21	0.5	17	0.4	8	0.2	14	0.3

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population. Does not include deaths where age is unknown.

<sup>2</sup>Group totals are shown in parentheses.

\* Rate not calculated because number of deaths was less than 5.

\*\* Comparability ratio not available.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999. Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

continued Table S5b. Number of Deaths and Age-Adjusted Death Rates Due to Selected External Causes, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	1996		1997		1998		Comparability Ratio	Comparability Modified 1998		1999 (ICD-10)	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>		No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
Intentional Self-Harm (Suicide) (E950-E959)(X60-X84,Y87.0) <sup>2</sup>	(785)	(14.4)	(728)	(13.2)	(700)	(12.5)	(1.00)	(700)	(12.5)	(819)	(14.4)
Poisoning (E950.0-E950.5)(X60-X69)	90	1.6	66	1.2	73	1.3	**	**	**	157	2.7
Hanging (E953)(X70)	109	2.0	119	2.1	146	2.6	**	**	**	133	2.3
Drowning (E954)(X71)	8	0.2	8	0.1	9	0.2	**	**	**	11	0.2
Firearms (E955.0-E955.4)(X72-X74)	459	8.5	422	7.7	377	6.8	1.00	377	6.8	451	8.0
Sharp Object (E956)(X78)	14	0.2	12	0.2	11	0.2	**	**	**	12	0.2
Jumping (E957)(X80)	28	0.5	20	0.4	23	0.4	**	**	**	33	0.6
Other (Residual)	77	1.4	81	1.5	61	1.1	**	**	**	22	0.4
Assault (Homicide) (E960-E969)(X85-Y09,Y87.1)	(255)	(4.6)	(258)	(4.7)	(235)	(4.1)	(1.00)	(235)	(4.1)	(190)	(3.3)
Poisoning (E961-E962)(X85-X90)	1	*	1	*	1	*	**	**	**	5	0.1
Hanging, Strangulation, & Suffocation (E963)(X91)	17	0.3	11	0.2	9	0.2	**	**	**	9	0.2
Firearms (E965.0-E965.4)(X93-X95)	138	2.5	158	2.8	142	2.5	1.00	142	2.5	106	1.8
Sharp Object (E966)(X99)	47	0.9	31	0.6	29	0.5	**	**	**	18	0.3
Other (Residual)	52	0.9	57	1.0	54	0.9	**	**	**	52	0.9
Undetermined (E980-E989)(Y10-Y34,Y87.2,Y89.9)	(108)	(1.9)	(99)	(1.7)	(97)	(1.7)	**	**	**	(100)	(1.7)
Poisoning (E980-E982)(Y10-Y19)	70	1.2	57	1.0	51	0.9	**	**	**	56	1.0
Drowning (E984)(Y21)	11	0.2	10	0.2	6	0.1	**	**	**	6	0.1
Firearms (E985.0-E985.4)(Y22-Y24)	5	0.1	6	0.1	10	0.2	**	**	**	6	0.1
Other (Residual)	22	0.4	26	0.4	30	0.5	**	**	**	32	0.6
Legal Intervention (E970-E978)(Y35,Y89.0)	9	0.2	3	*	2	*	**	**	**	9	0.2
Operations of War & Sequelae (E990-E999)(Y36,Y89.1)	0	*	0	*	1	*	**	**	**	2	*
Complic. Medical Care (E870-E879,E930-E949)(Y40-Y84,Y88)	(11)	(0.2)	(38)	(0.7)	(39)	(0.7)	**	**	**	(25)	(0.5)
Adverse Effects of Drugs (E930-E949)(Y40-Y59,Y88.0)	0	*	4	*	2	*	**	**	**	5	0.1
Misadventures (E870-E876)(Y60-Y69,Y88.1)	7	0.1	7	0.1	17	0.3	**	**	**	1	*
Other (E878-E879)(Y70-Y84,Y88.2-Y88.3)	4	*	27	0.5	20	0.4	**	**	**	19	0.4

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population. Does not include deaths where age is unknown.

<sup>2</sup>Group totals are shown in parentheses.

\* Rate not calculated because number of deaths was less than 5.

\*\* Comparability ratio not available.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999. Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S6. Number of Deaths and Age-Adjusted Death Rates to Residents Due to Firearms, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	1990		1991		1992		1993		1994		1995	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>Total</b>	<b>540</b>	<b>11.1</b>	<b>549</b>	<b>11.2</b>	<b>596</b>	<b>11.7</b>	<b>626</b>	<b>12.1</b>	<b>677</b>	<b>12.9</b>	<b>667</b>	<b>12.4</b>
Accident (E922)(W32-W34)	11	0.2	19	0.4	20	0.4	15	0.3	16	0.3	17	0.3
Self-Harm (Suicide) (E955.0-E955.4)(X72-X74)	377	8.0	396	8.2	392	7.8	431	8.5	436	8.4	460	8.7
Assault (Homicide) (E965.0-E965.4) (X93-C95)	141	2.7	123	2.4	168	3.2	167	3.1	200	3.7	173	3.1
Undetermined (E985.0-E985.4)(Y22-Y24)	7	0.1	7	0.1	11	0.2	7	0.1	16	0.3	10	0.2
Legal Intervention (E970)(Y35.0)	4	*	4	*	5	0.1	6	0.1	9	0.2	7	0.1

Cause Followed by ICD-9 and ICD-10 Code	1996		1997		1998		Comparability			1999 (ICD-10)	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	Ratio	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>Total</b>	<b>617</b>	<b>11.4</b>	<b>605</b>	<b>11.0</b>	<b>542</b>	<b>9.7</b>	**	**	**	<b>583</b>	<b>10.3</b>
Accident (E922)(W32-W34)	6	0.1	16	0.3	12	0.2	1.06	13	0.2	12	0.2
Self-Harm (Suicide) (E955.0-E955.4)(X72-X74)	459	8.5	422	7.7	377	6.8	1.00	377	6.8	451	8.0
Assault (Homicide) (E965.0-E965.4) (X93-C95)	138	2.5	158	2.8	142	2.5	1.00	142	2.5	106	1.8
Undetermined (E985.0-E985.4)(Y22-Y24)	5	0.1	6	0.1	10	0.2	**	**	**	6	0.1
Legal Intervention (E970)(Y35.0)	9	0.2	3	*	1	*	**	**	**	8	0.1

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population. Does not include deaths where age is unknown.

\* Rate not calculated because number of deaths was less than 5.

\*\* Comparability ratio not available.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.



Table S7. Number of Deaths and Age-Adjusted Death Rates to Residents Due to Poisoning, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	<u>1990</u>		<u>1991</u>		<u>1992</u>		<u>1993</u>		<u>1994</u>		<u>1995</u>	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>Total</b>	<b>336</b>	<b>7.0</b>	<b>296</b>	<b>6.0</b>	<b>342</b>	<b>6.6</b>	<b>399</b>	<b>7.6</b>	<b>431</b>	<b>8.0</b>	<b>500</b>	<b>9.0</b>
Accidental Poisoning (E850-E869,E924.1) (X40-X49)	112	2.3	102	2.0	144	2.8	187	3.5	224	4.1	281	5.0
Accidental Poisoning by Drugs (E850-E858) (X40-X44)	102	2.1	87	1.7	133	2.6	167	3.1	203	3.7	264	4.7
Other Accidental Poisoning (E860-E869) (X45-X49)	9	0.2	15	0.3	11	0.2	20	0.4	21	0.4	17	0.3
Self-Harm Poisoning (Suicide) (E950-E952) (X60-X69)	162	3.4	146	3.0	147	2.9	148	2.9	147	2.8	163	3.0
Self-Harm or Suicide by Drugs (E950.0-E950.5) (X60-X64)	81	1.7	79	1.6	86	1.7	80	1.6	86	1.7	83	1.5
Undetermined Poisoning (E980-E982) (Y10-Y19)	62	1.3	48	0.9	51	1.0	64	1.2	60	1.1	56	1.0
Undetermined Poisoning by Drugs(E980.0-E980.5) (Y10-Y14)	58	1.2	43	0.8	50	1.0	61	1.2	56	1.0	54	0.9

Cause Followed by ICD-9 and ICD-10 Code	<u>1996</u>		<u>1997</u>		<u>1998</u>		Compar- ability Ratio	Comparability <u>Modified 1998</u>		<u>1999(ICD-10)</u>	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>		No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>Total</b>	<b>529</b>	<b>9.4</b>	<b>510</b>	<b>8.9</b>	<b>502</b>	<b>8.7</b>	**	**	**	<b>628</b>	<b>10.8</b>
Accidental Poisoning (E850-E869,E924.1) (X40-X49)	309	5.5	322	5.6	327	5.6	**	**	**	415	7.1
Accidental Poisoning by Drugs (E850-E858) (X40-X44)	287	5.1	295	5.1	310	5.3	**	**	**	403	6.9
Other Accidental Poisoning (E860-E869) (X45-X49)	22	0.4	27	0.5	17	0.3	**	**	**	12	0.2
Self-Harm Poisoning (Suicide) (E950-E952) (X60-X69)	150	2.7	131	2.4	124	2.2	**	**	**	157	2.7
Self-Harm or Suicide by Drugs (E950.0-E950.5) (X60-X64)	90	1.6	66	1.2	73	1.3	**	**	**	95	1.7
Undetermined Poisoning (E980-E982) (Y10-Y19)	70	1.2	57	1.0	51	0.9	**	**	**	56	1.0
Undetermined Poisoning by Drugs(E980.0-E980.5) (Y10-Y14)	68	1.2	56	1.0	47	0.8	**	**	**	54	0.9

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population. Does not include deaths where age is unknown.

\*\* Comparability ratio not available.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S8. Deaths and Age-Adjusted Death Rates Due to All Causes by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		1999	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>37,390.0</b>	<b>8.6</b>	<b>40,338.3</b>	<b>8.6</b>	<b>42,087.3</b>	<b>8.3</b>	<b>43,793</b>	<b>8.2</b>
Adams	101.3	8.9	101.7	8.6	111.0	8.6	120	8.8
Asotin	202.0	9.6	218.3	9.9	220.0	9.3	248	10.0
Benton	743.0	8.7	803.3	8.5	867.3	8.5	854	7.9
Chelan	539.3	9.0	560.3	8.9	555.0	8.1	549	7.6
Clallam	664.3	8.6	701.3	8.2	759.0	8.1	794	8.0
Clark	1,731.3	8.8	1,959.0	8.9	2,133.3	8.4	2,237	8.1
Columbia	47.0	9.2	52.7	9.4	46.7	8.3	67	11.6
Cowlitz	753.0	9.2	823.0	9.4	888.0	9.4	902	9.2
Douglas	186.0	7.8	204.0	7.6	227.0	7.6	237	7.6
Ferry	48.3	9.6	61.3	10.7	70.7	11.7	66	10.7
Franklin	255.7	9.1	278.3	8.9	283.7	8.9	284	8.4
Garfield	29.3	8.2	37.7	10.5	30.3	8.6	28	8.3
Grant	431.3	8.7	500.0	9.0	534.3	8.6	537	8.1
Grays Harbor	722.3	10.2	732.0	9.9	747.0	9.7	735	9.4
Island	414.3	7.6	462.3	7.3	498.0	7.2	504	7.0
Jefferson	202.7	7.8	242.3	8.0	268.0	7.9	283	8.0
King	10,763.3	8.3	11,360.3	8.3	11,514.0	7.9	11,940	7.9
Kitsap	1,354.7	8.6	1,409.3	8.3	1,582.7	8.6	1,712	9.0
Kittitas	211.0	8.3	229.3	8.4	243.7	8.3	245	7.9
Klickitat	158.0	9.7	154.3	8.6	149.0	7.6	173	8.5
Lewis	616.7	9.3	686.3	9.7	724.7	9.5	714	9.0
Lincoln	100.3	8.0	104.3	8.0	114.0	8.3	111	7.9
Mason	374.7	9.0	447.0	9.4	485.3	9.3	512	9.5
Okanogan	310.0	9.1	326.7	9.0	368.3	9.5	387	9.7
Pacific	255.7	9.5	257.0	8.9	282.3	9.1	273	8.6
Pend Oreille	83.3	9.3	100.7	9.6	112.0	9.5	103	8.7
Pierce	4,346.0	9.0	4,734.7	9.0	4,877.3	8.7	5,146	8.7
San Juan	88.3	6.7	97.7	6.5	99.0	6.3	106	6.7
Skagit	755.3	8.5	802.7	8.2	875.7	8.3	905	8.0
Skamania	55.0	8.2	64.3	8.6	65.7	8.2	84	10.1
Snohomish	2,902.0	8.3	3,246.7	8.4	3,481.0	8.1	3,816	8.3
Spokane	3,161.7	8.9	3,376.3	8.9	3,462.7	8.6	3,554	8.5
Stevens	268.7	9.4	291.0	9.3	306.0	8.8	337	9.3
Thurston	1,171.3	8.1	1,334.7	8.3	1,469.7	8.3	1,536	8.3
Wahkiakum	37.7	8.5	41.3	8.8	51.7	9.9	42	7.7
Walla Walla	484.3	8.5	517.0	8.7	507.7	8.1	546	8.5
Whatcom	1,003.3	8.2	1,086.3	8.2	1,149.3	7.9	1,154	7.5
Whitman	196.0	7.2	236.7	8.6	216.7	7.4	224	7.3
Yakima	1,621.3	8.9	1,696.0	8.9	1,709.7	8.4	1,728	8.1

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

NOTE: Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S9. Deaths and Age-Adjusted Death Rates Due to Diabetes Mellitus by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996-1998		1999 (ICD-10)	
	Mean		Mean		Mean		Mean		Mean	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>799.7</b>	<b>18.2</b>	<b>1,020.3</b>	<b>21.5</b>	<b>1,171.3</b>	<b>23.1</b>	<b>1,183.0</b>	<b>23.3</b>	<b>1,305</b>	<b>24.7</b>
Adams	1.3	*	6.3	52.9	8.3	64.9	8.4	65.6	9	67.0
Asotin	2.7	12.7	3.0	14.0	7.0	28.7	7.1	29.0	6	25.0
Benton	14.7	17.1	21.3	21.8	25.0	24.4	25.3	24.7	35	32.3
Chelan	12.3	20.9	11.0	17.9	18.3	27.0	18.5	27.3	12	16.9
Clallam	11.7	15.2	15.3	16.0	19.3	20.5	19.5	20.7	25	24.5
Clark	27.7	13.6	61.0	27.4	69.0	26.8	69.7	27.1	69	25.1
Columbia	1.3	*	1.7	27.1	3.7	64.9	3.7	65.5	0	*
Cowlitz	21.3	25.6	22.3	25.4	19.0	20.0	19.2	20.2	26	26.4
Douglas	3.0	13.7	4.7	17.2	6.3	20.5	6.4	20.7	5	16.9
Ferry	1.7	33.6	2.3	38.5	1.0	*	1.0	*	2	*
Franklin	5.0	17.4	7.7	22.5	7.7	23.4	7.7	23.6	8	24.2
Garfield	0.3	*	1.0	*	0.7	*	0.7	*	1	*
Grant	10.3	20.2	16.0	29.2	14.0	21.9	14.1	22.1	19	28.0
Grays Harbor	11.7	16.1	19.3	26.3	14.0	17.9	14.1	18.1	25	32.0
Island	8.7	14.2	7.0	12.2	18.0	25.5	18.2	25.8	9	12.8
Jefferson	5.0	17.4	2.7	7.4	7.3	21.3	7.4	21.5	7	20.0
King	242.0	18.3	282.0	20.4	311.0	21.5	314.1	21.8	330	22.0
Kitsap	24.0	15.3	38.0	21.6	46.3	25.2	46.8	25.5	54	28.2
Kittitas	4.3	17.7	5.0	18.8	7.3	24.9	7.4	25.1	9	28.1
Klickitat	3.3	20.2	6.3	34.9	3.0	14.9	3.0	15.1	10	48.1
Lewis	14.7	22.1	24.0	33.7	17.7	23.3	17.8	23.5	29	36.7
Lincoln	3.7	27.4	2.7	19.4	1.7	11.2	1.7	11.3	2	*
Mason	4.3	9.8	7.0	14.0	8.7	16.0	8.8	16.2	14	24.7
Okanogan	5.3	15.7	11.0	30.4	10.7	27.2	10.8	27.4	11	27.8
Pacific	4.3	13.8	7.3	22.7	9.7	30.1	9.8	30.4	9	27.2
Pend Oreille	2.3	25.0	2.7	25.0	4.0	33.1	4.0	33.5	3	*
Pierce	98.3	20.5	122.0	23.1	131.3	23.4	132.6	23.6	157	26.5
San Juan	2.0	14.2	1.7	11.4	1.7	13.1	1.7	13.2	3	*
Skagit	17.3	19.3	18.0	17.7	24.3	22.6	24.6	22.9	24	21.2
Skamania	0.7	*	0.7	*	1.0	*	1.0	*	3	*
Snohomish	65.0	18.3	74.0	18.7	100.3	22.9	101.3	23.2	98	21.5
Spokane	60.7	17.1	78.3	20.7	91.0	23.0	91.9	23.2	96	23.2
Stevens	6.3	21.6	4.7	15.0	9.7	28.5	9.8	28.8	8	22.4
Thurston	26.3	17.7	31.3	19.5	44.7	25.1	45.1	25.4	51	27.4
Wahkiakum	1.3	*	2.3	45.8	3.7	70.6	3.7	71.3	1	*
Walla Walla	8.0	14.7	12.3	21.3	13.0	21.2	13.1	21.4	16	27.6
Whatcom	23.3	19.2	25.7	19.4	27.0	18.6	27.3	18.8	48	32.0
Whitman	2.7	10.1	4.0	14.5	6.0	20.8	6.1	21.0	6	20.6
Yakima	40.7	22.6	56.7	30.2	59.0	29.5	59.6	29.8	65	31.4

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are E10-E14.

Codes for International Classification of Diseases (Ninth Revision) in 1990-1998 are 250.

Comparability Ratio is 1.01 and standard error is 0.0011.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S10. Deaths and Age-Adjusted Death Rates Due to Alzheimer's Disease by Place of Residence, 1990-1999

County	<u>1990-1992</u>		<u>1993-1995</u>		<u>1996-1998</u>		<u>Comparability Modified 1996-1998</u>		<u>1999 (ICD-10)</u>	
	Mean		Mean		Mean		Mean		Mean	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>423.7</b>	<b>10.6</b>	<b>479.0</b>	<b>10.8</b>	<b>575.0</b>	<b>11.7</b>	<b>891.3</b>	<b>18.2</b>	<b>1,576</b>	<b>30.2</b>
Adams	1.0	*	0.0	*	1.0	*	1.6	*	2	*
Asotin	2.3	11.7	3.0	12.2	5.3	20.6	8.3	31.9	6	21.3
Benton	9.0	12.7	10.3	13.0	11.3	12.3	17.6	19.0	17	17.4
Chelan	13.7	22.1	11.3	17.3	10.0	13.7	15.5	21.2	14	17.9
Clallam	7.3	9.5	7.0	7.8	6.0	6.0	9.3	9.3	29	28.4
Clark	11.3	6.7	24.3	12.1	43.0	18.3	66.7	28.3	99	38.2
Columbia	0.0	*	0.0	*	0.0	*	0.0	*	1	*
Cowlitz	16.3	21.2	22.0	26.0	24.7	26.4	38.2	40.9	29	29.2
Douglas	2.3	11.2	4.0	16.0	2.3	7.9	3.6	12.3	12	40.7
Ferry	1.3	*	0.3	*	0.0	*	0.0	*	0	*
Franklin	1.7	7.5	2.3	8.6	1.7	6.0	2.6	9.3	8	28.1
Garfield	0.7	*	1.3	*	1.3	*	2.1	*	3	*
Grant	6.3	15.0	6.3	13.2	7.0	12.2	10.9	19.0	13	21.0
Grays Harbor	9.3	13.5	10.7	14.2	3.7	4.5	5.7	7.1	27	32.6
Island	5.3	11.3	4.7	7.6	5.7	8.8	8.8	13.7	18	28.3
Jefferson	2.0	6.9	2.7	9.2	5.0	14.5	7.8	22.4	7	21.4
King	121.0	10.2	133.0	10.4	149.3	10.7	231.5	16.5	447	30.1
Kitsap	14.7	10.4	21.3	13.7	21.7	12.4	33.6	19.2	88	48.1
Kittitas	1.7	6.8	4.7	17.1	6.0	19.8	9.3	30.7	9	27.9
Klickitat	2.3	15.9	2.3	13.4	3.3	17.0	5.2	26.4	3	*
Lewis	6.7	9.8	4.7	6.4	10.0	12.3	15.5	19.0	19	22.5
Lincoln	0.3	*	0.7	*	1.0	*	1.6	*	4	*
Mason	3.7	10.3	4.3	11.0	5.3	11.0	8.3	17.1	17	32.6
Okanogan	2.3	7.4	3.7	10.4	3.7	9.4	5.7	14.5	16	38.9
Pacific	4.0	15.4	3.0	11.1	2.7	8.4	4.1	13.0	12	35.5
Pend Oreille	0.3	*	1.0	*	0.7	*	1.0	*	4	*
Pierce	34.3	7.9	31.7	6.6	44.0	8.4	68.2	13.0	159	28.2
San Juan	1.7	14.6	2.3	15.8	2.0	13.5	3.1	20.9	2	*
Skagit	15.3	18.4	11.0	11.4	15.0	14.1	23.3	21.8	41	35.4
Skamania	1.3	*	0.3	*	1.0	*	1.6	*	1	*
Snohomish	36.3	12.3	40.7	12.0	57.3	15.0	88.9	23.2	142	33.7
Spokane	23.3	6.7	34.0	8.9	39.3	9.5	61.0	14.8	114	26.1
Stevens	4.7	17.0	3.7	12.5	3.0	9.0	4.7	13.9	9	25.3
Thurston	9.3	7.2	12.3	8.3	22.7	13.5	35.1	20.9	58	32.2
Wahkiakum	0.3	*	2.0	39.9	1.3	*	2.1	*	4	*
Walla Walla	7.7	12.4	7.3	11.4	7.3	11.3	11.4	17.5	34	47.3
Whatcom	20.7	17.2	24.7	19.0	21.3	14.7	33.1	22.8	52	33.2
Whitman	1.7	6.3	2.3	8.6	7.0	23.6	10.9	36.6	7	22.5
Yakima	20.0	11.1	17.7	9.2	22.0	10.5	34.1	16.3	49	21.9

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are G30.

Codes for International Classification of Diseases (Ninth Revision) in 1990-1998 are 331.0.

Comparability Ratio is 1.55 and standard error is 0.0071.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S11. Deaths and Age-Adjusted Death Rates Due to Major Cardiovascular Disease by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996- 1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>15,110.7</b>	<b>359.0</b>	<b>15,806.3</b>	<b>344.8</b>	<b>16,016.0</b>	<b>320.8</b>	<b>16,016.0</b>	<b>320.8</b>	<b>16,330</b>	<b>310.1</b>
Adams	42.7	397.1	42.7	374.9	44.3	357.1	44.3	357.1	44	337.5
Asotin	76.3	347.1	82.0	361.8	85.0	347.9	85.0	347.9	102	394.0
Benton	316.3	397.1	331.0	372.9	346.7	354.4	346.7	354.4	312	302.6
Chelan	208.7	344.3	221.3	343.9	214.7	307.1	214.7	307.1	194	261.0
Clallam	278.3	352.6	287.3	323.4	308.7	318.2	308.7	318.2	325	318.8
Clark	680.0	368.0	751.7	357.8	784.3	319.6	784.3	319.6	813	304.2
Columbia	19.0	359.7	23.0	395.3	15.7	267.3	15.7	267.3	22	383.8
Cowlitz	325.0	405.2	340.0	392.3	368.0	390.3	368.0	390.3	357	360.4
Douglas	72.7	319.6	91.0	346.3	74.3	252.3	74.3	252.3	92	299.9
Ferry	15.3	354.8	22.0	404.9	25.7	439.9	25.7	439.9	24	405.3
Franklin	102.7	401.6	100.7	352.5	115.3	384.1	115.3	384.1	112	353.8
Garfield	12.3	324.5	13.3	373.2	13.0	328.0	13.0	328.0	14	360.4
Grant	172.7	359.1	199.0	370.0	217.0	357.7	217.0	357.7	213	330.5
Grays Harbor	296.7	417.6	294.3	393.2	288.0	368.2	288.0	368.2	254	317.8
Island	163.3	318.7	175.0	291.7	193.7	285.0	193.7	285.0	195	277.9
Jefferson	85.3	331.0	93.7	308.4	101.7	291.3	101.7	291.3	107	298.2
King	4,169.3	335.7	4,193.7	315.9	4,254.3	299.3	4,254.3	299.3	4,264	286.3
Kitsap	523.3	351.1	504.0	305.0	565.7	313.4	565.7	313.4	637	341.0
Kittitas	85.7	335.3	92.7	338.0	91.3	309.4	91.3	309.4	95	303.9
Klickitat	60.3	369.5	59.3	331.2	52.7	265.2	52.7	265.2	63	303.6
Lewis	276.7	409.7	300.7	419.3	339.3	437.4	339.3	437.4	297	365.2
Lincoln	42.3	324.4	44.0	327.8	52.3	361.5	52.3	361.5	44	290.7
Mason	152.7	376.3	172.7	365.9	173.0	330.1	173.0	330.1	191	351.8
Okanogan	131.0	385.3	119.3	330.6	127.3	325.7	127.3	325.7	137	337.9
Pacific	107.7	389.8	113.0	377.0	111.3	344.5	111.3	344.5	103	309.4
Pend Oreille	30.0	341.3	36.7	349.1	43.3	368.3	43.3	368.3	31	260.9
Pierce	1,810.3	397.2	1,953.3	388.1	1,911.7	351.3	1,911.7	351.3	2,003	345.7
San Juan	34.3	251.1	39.0	269.5	34.3	221.5	34.3	221.5	41	257.9
Skagit	311.3	352.3	310.7	318.1	311.7	290.9	311.7	290.9	326	285.0
Skamania	19.7	321.6	30.0	423.1	23.0	296.6	23.0	296.6	34	400.6
Snohomish	1,153.7	351.0	1,269.7	345.8	1,307.3	319.6	1,307.3	319.6	1,407	316.0
Spokane	1,351.7	383.4	1,373.3	363.6	1,335.0	327.9	1,335.0	327.9	1,383	325.0
Stevens	113.0	398.7	111.3	359.5	118.7	346.8	118.7	346.8	145	404.0
Thurston	457.3	325.8	521.7	331.2	556.3	319.9	556.3	319.9	552	300.1
Wahkiakum	16.0	359.1	17.3	356.8	22.7	421.4	22.7	421.4	11	194.9
Walla Walla	218.0	374.4	222.3	366.8	207.0	319.7	207.0	319.7	215	317.4
Whatcom	398.0	329.5	410.0	314.5	437.3	303.4	437.3	303.4	437	283.7
Whitman	88.3	332.8	109.7	403.9	90.7	311.4	90.7	311.4	103	339.0
Yakima	692.7	386.4	734.0	386.0	653.7	320.2	653.7	320.2	631	294.3

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are I00-I78.

Codes for International Classification of Diseases (Ninth Revision) in 1990-1998 are 390-434, 436-448.

Comparability Ratio is 1.00 and standard error is 0.0002.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S12. Deaths and Age-Adjusted Death Rates Due to Diseases of the Heart by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996- 1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>11,187.3</b>	<b>264.4</b>	<b>11,464.7</b>	<b>249.1</b>	<b>11,458.3</b>	<b>229.0</b>	<b>11,343.8</b>	<b>226.7</b>	<b>11,477</b>	<b>217.6</b>
Adams	30.7	282.8	33.7	296.0	29.7	238.0	29.4	235.6	30	230.6
Asotin	49.0	224.1	55.7	248.0	53.0	218.4	52.5	216.2	74	290.1
Benton	233.0	289.8	239.0	267.6	258.0	261.1	255.4	258.5	235	227.2
Chelan	154.3	255.7	169.0	263.9	153.0	219.3	151.5	217.1	132	177.3
Clallam	204.3	257.4	214.7	242.4	217.0	224.8	214.8	222.6	221	217.7
Clark	527.0	285.0	571.3	271.9	568.7	231.1	563.0	228.8	548	204.1
Columbia	15.0	284.0	17.0	289.9	13.0	223.4	12.9	221.2	16	287.4
Cowlitz	235.7	293.0	249.0	287.1	285.0	302.0	282.2	299.0	263	265.8
Douglas	51.7	224.3	68.3	256.9	55.3	187.1	54.8	185.2	63	204.9
Ferry	12.0	274.4	16.7	307.1	18.3	311.2	18.2	308.1	15	254.0
Franklin	74.3	287.3	72.0	246.2	78.7	260.4	77.9	257.8	58	181.7
Garfield	9.7	254.8	8.7	240.1	8.7	219.6	8.6	217.4	10	261.1
Grant	128.7	262.2	149.0	275.4	162.0	265.0	160.4	262.3	163	252.0
Grays Harbor	232.7	326.2	217.7	291.0	209.0	269.1	206.9	266.4	178	225.1
Island	130.0	255.2	131.0	218.1	147.3	215.7	145.9	213.5	142	201.9
Jefferson	60.7	229.9	64.7	209.6	75.7	215.0	74.9	212.8	76	207.3
King	3,068.7	245.6	3,020.0	226.7	3,030.0	212.7	2,999.7	210.6	2,971	199.1
Kitsap	388.7	259.8	375.3	226.2	416.3	230.0	412.2	227.7	446	237.4
Kittitas	61.7	241.2	69.0	252.1	62.7	212.8	62.0	210.7	62	199.7
Klickitat	45.0	273.4	44.0	246.3	40.7	204.9	40.3	202.9	46	222.9
Lewis	205.7	305.8	210.0	293.6	242.7	315.5	240.2	312.3	203	251.6
Lincoln	28.3	217.9	30.7	232.9	37.7	263.7	37.3	261.0	32	213.1
Mason	120.7	294.8	133.0	279.1	119.3	228.7	118.1	226.4	138	252.3
Okanogan	99.3	291.5	85.7	236.9	92.3	236.1	91.4	233.7	95	234.9
Pacific	81.7	295.6	86.7	289.9	84.0	261.1	83.2	258.5	70	210.3
Pend Oreille	24.7	279.1	28.3	272.9	29.7	249.2	29.4	246.7	20	165.1
Pierce	1,319.3	286.4	1,370.7	269.5	1,385.7	253.3	1,371.8	250.7	1,450	249.0
San Juan	22.3	165.7	23.0	154.0	24.0	153.4	23.8	151.8	26	158.4
Skagit	225.0	254.3	228.7	234.3	211.3	197.5	209.2	195.5	215	187.9
Skamania	12.7	193.9	24.0	330.9	17.3	222.9	17.2	220.7	25	297.9
Snohomish	869.3	261.5	937.7	253.0	937.0	227.2	927.6	224.9	1,003	223.8
Spokane	986.0	279.4	982.0	260.0	930.0	229.0	920.7	226.7	950	224.6
Stevens	84.3	295.1	84.3	270.1	84.3	245.7	83.5	243.2	110	305.7
Thurston	350.7	249.7	380.0	240.2	412.0	236.1	407.9	233.7	401	217.2
Wahkiakum	13.0	293.7	12.3	258.2	18.0	336.8	17.8	333.4	5	93.8
Walla Walla	158.3	273.8	141.0	234.5	135.3	210.1	134.0	208.0	148	222.1
Whatcom	288.3	238.4	291.3	223.5	292.0	202.8	289.1	200.7	309	201.1
Whitman	62.0	232.5	82.0	302.5	67.3	232.7	66.7	230.4	73	241.0
Yakima	523.0	291.3	547.7	288.6	456.3	224.5	451.8	222.3	455	213.2

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are I00-I09,I11,I13,I20-I51.  
 Codes for International Classification of Diseases (Ninth Revision) in 1990-1998 are 390-398,402,404,410-429.  
 Comparability Ratio is 0.99 and standard error is 0.0002.  
 Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S13. Deaths and Age-Adjusted Death Rates Due to Ischemic Heart Disease by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		<u>Comparability</u> <u>Modified 1996-</u> <u>1998</u>		1999	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>8,738.0</b>	<b>206.2</b>	<b>8,815.7</b>	<b>191.4</b>	<b>8,608.0</b>	<b>172.1</b>	<b>8,608.0</b>	<b>172.1</b>	<b>8,650</b>	<b>164.1</b>
Adams	24.7	224.8	24.7	214.9	22.3	178.1	22.3	178.1	27	207.4
Asotin	35.7	162.8	33.0	148.4	37.3	153.7	37.3	153.7	49	191.0
Benton	174.0	213.2	179.7	199.7	187.0	188.7	187.0	188.7	176	167.9
Chelan	114.7	189.4	126.3	196.5	109.3	156.8	109.3	156.8	104	140.0
Clallam	147.0	184.7	155.0	175.2	156.3	161.1	156.3	161.1	157	155.4
Clark	417.3	226.4	448.0	213.6	412.7	168.3	412.7	168.3	399	148.4
Columbia	13.0	246.1	13.3	226.7	10.7	180.4	10.7	180.4	14	247.9
Cowlitz	202.7	251.5	203.7	234.6	225.0	238.2	225.0	238.2	198	200.2
Douglas	44.0	188.7	56.0	208.7	42.3	142.0	42.3	142.0	53	170.8
Ferry	9.3	209.3	14.0	250.7	15.3	264.6	15.3	264.6	14	238.8
Franklin	53.3	206.4	52.0	182.4	60.3	200.2	60.3	200.2	45	139.2
Garfield	7.0	184.8	6.0	167.5	4.7	117.3	4.7	117.3	7	186.4
Grant	100.3	202.2	119.3	219.6	133.0	217.0	133.0	217.0	133	203.7
Grays Harbor	178.3	248.0	169.3	225.7	162.7	208.9	162.7	208.9	141	178.6
Island	102.0	197.5	99.3	160.2	106.0	151.0	106.0	151.0	111	154.4
Jefferson	47.3	178.4	50.3	163.7	51.0	142.6	51.0	142.6	51	134.6
King	2,358.0	188.9	2,270.7	170.4	2,257.0	158.8	2,257.0	158.8	2,213	148.7
Kitsap	304.3	202.5	291.3	174.7	319.7	176.3	319.7	176.3	338	180.1
Kittitas	47.7	185.8	50.0	183.2	48.0	162.9	48.0	162.9	46	148.0
Klickitat	38.0	230.2	33.3	186.7	31.0	156.1	31.0	156.1	31	150.3
Lewis	172.7	257.1	187.0	261.7	208.7	271.1	208.7	271.1	172	212.7
Lincoln	20.7	158.1	24.7	189.1	30.7	214.4	30.7	214.4	29	194.6
Mason	91.3	221.5	104.0	218.3	82.3	157.5	82.3	157.5	84	151.2
Okanogan	73.0	216.1	65.3	180.4	64.0	163.4	64.0	163.4	66	163.9
Pacific	66.0	238.4	66.7	225.1	67.3	208.1	67.3	208.1	57	166.9
Pend Oreille	18.3	211.4	19.3	184.7	22.7	187.9	22.7	187.9	14	113.6
Pierce	1,062.7	230.7	1,070.0	210.8	1,062.7	194.5	1,062.7	194.5	1,146	197.1
San Juan	17.3	126.6	17.7	117.8	17.0	107.1	17.0	107.1	16	96.2
Skagit	182.0	206.0	179.3	183.5	151.7	141.2	151.7	141.2	167	145.7
Skamania	10.0	151.2	17.7	246.0	12.7	161.3	12.7	161.3	18	210.6
Snohomish	683.7	205.3	717.7	192.4	727.0	176.1	727.0	176.1	761	169.8
Spokane	762.0	215.8	757.0	200.4	679.0	167.5	679.0	167.5	710	168.3
Stevens	65.3	227.9	66.3	212.4	69.7	203.2	69.7	203.2	84	232.7
Thurston	271.0	191.6	293.0	185.1	305.7	174.8	305.7	174.8	297	160.9
Wahkiakum	10.0	225.6	9.0	187.1	13.7	254.6	13.7	254.6	4	*
Walla Walla	122.7	210.8	103.7	174.4	93.7	145.4	93.7	145.4	99	149.3
Whatcom	215.3	178.0	209.7	160.9	210.3	146.3	210.3	146.3	219	142.8
Whitman	46.0	172.2	60.3	223.5	51.3	178.7	51.3	178.7	52	171.6
Yakima	429.3	239.4	452.0	238.3	346.3	170.6	346.3	170.6	348	163.1

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are I20-I25.

Codes for International Classification of Diseases (Ninth Revision) in 1990-1998 are 410-414,429.2.

Comparability Ratio is 1.00 and standard error is 0.0002.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S14. Deaths and Age-Adjusted Death Rates Due to Cerebrovascular Diseases by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996- 1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>2,818.7</b>	<b>68.3</b>	<b>3,206.3</b>	<b>70.8</b>	<b>3,432.3</b>	<b>69.2</b>	<b>3,638.3</b>	<b>73.4</b>	<b>3,705</b>	<b>70.6</b>
Adams	9.0	85.1	6.7	58.8	12.7	103.6	13.4	109.8	10	76.3
Asotin	19.3	86.7	19.0	82.0	24.3	98.8	25.8	104.7	21	76.7
Benton	59.3	77.0	69.7	81.0	64.3	68.3	68.2	72.4	69	68.0
Chelan	38.3	63.2	38.0	58.3	47.0	66.7	49.8	70.7	50	67.1
Clallam	53.7	69.9	54.0	60.1	71.7	73.0	76.0	77.4	84	82.1
Clark	109.7	59.9	128.7	61.6	156.7	64.6	166.1	68.5	200	75.7
Columbia	3.7	69.6	4.3	73.7	2.7	43.9	2.8	46.5	6	96.4
Cowlitz	68.3	85.9	68.0	78.8	65.7	69.9	69.6	74.1	69	69.4
Douglas	13.7	63.4	17.0	68.5	15.0	52.1	15.9	55.2	20	66.3
Ferry	2.7	62.1	3.7	70.5	6.7	117.0	7.1	124.0	7	108.8
Franklin	21.0	84.7	23.3	87.2	30.3	104.2	32.2	110.4	44	141.7
Garfield	2.3	60.9	4.0	115.7	3.7	92.2	3.9	97.8	4	*
Grant	32.7	73.0	39.7	75.8	44.3	75.2	47.0	79.7	45	70.2
Grays Harbor	43.7	62.7	55.3	73.8	62.7	78.5	66.4	83.2	58	70.8
Island	23.3	44.7	35.3	59.9	34.0	52.1	36.0	55.2	40	58.5
Jefferson	19.0	77.8	23.7	81.6	21.7	64.2	23.0	68.1	28	80.9
King	814.3	67.0	882.3	67.3	931.0	65.8	986.9	69.8	1,008	68.0
Kitsap	102.7	70.2	100.3	61.8	115.0	64.2	121.9	68.1	165	89.5
Kittitas	19.3	76.2	17.7	63.4	20.3	68.1	21.6	72.2	24	75.4
Klickitat	10.3	66.4	11.3	63.0	9.3	46.9	9.9	49.8	16	76.0
Lewis	53.7	78.5	71.0	98.3	78.7	99.2	83.4	105.2	73	87.6
Lincoln	11.7	88.8	9.0	64.0	10.7	71.2	11.3	75.5	11	71.7
Mason	24.3	61.9	28.7	63.9	37.7	72.3	39.9	76.6	37	68.0
Okanogan	23.0	68.2	25.3	70.8	26.7	68.4	28.3	72.5	31	76.1
Pacific	18.3	66.9	19.0	63.0	19.7	60.7	20.8	64.3	23	65.9
Pend Oreille	4.0	47.1	5.3	48.9	10.0	87.4	10.6	92.6	11	95.8
Pierce	330.0	74.8	417.3	85.1	371.0	69.1	393.3	73.2	401	70.0
San Juan	8.0	57.4	8.0	56.0	7.3	47.4	7.8	50.3	9	57.0
Skagit	65.3	74.9	61.0	62.5	76.3	71.5	80.9	75.8	72	63.0
Skamania	3.3	56.7	2.7	38.6	3.3	42.4	3.5	45.0	7	81.7
Snohomish	210.0	66.1	253.7	71.0	292.3	73.3	309.9	77.7	311	71.2
Spokane	235.7	67.1	257.0	68.1	273.7	66.9	290.1	71.0	310	72.1
Stevens	24.0	86.3	20.3	67.9	27.3	80.8	29.0	85.6	26	73.4
Thurston	80.0	57.4	107.0	68.9	114.3	66.5	121.2	70.5	113	62.0
Wahkiakum	2.0	43.1	4.0	78.9	3.3	60.8	3.5	64.5	3	*
Walla Walla	38.0	64.4	59.7	96.8	51.7	78.2	54.8	82.8	47	67.8
Whatcom	74.7	62.3	92.0	70.7	115.3	79.8	122.3	84.6	94	60.8
Whitman	21.0	80.1	20.3	74.4	19.7	67.0	20.8	71.1	22	72.3
Yakima	125.3	70.5	143.0	74.9	154.3	74.8	163.6	79.3	136	62.8

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are I60-I69.

Codes for International Classification of Diseases (Ninth Revision) are 430-434,436-438.

Comparability Ratio is 1.06 and standard error is 0.0008.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.



Table S15. Deaths and Age-Adjusted Death Rates Due to Pneumonia and Influenza by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996- 1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>1,362.7</b>	<b>33.5</b>	<b>1,544.3</b>	<b>34.4</b>	<b>1,671.0</b>	<b>33.7</b>	<b>1,169.7</b>	<b>23.6</b>	<b>1,258</b>	<b>23.9</b>
Adams	3.3	31.9	2.7	23.3	3.7	29.8	2.6	20.8	4	*
Asotin	11.0	49.7	10.7	44.4	6.7	25.5	4.7	17.9	8	28.1
Benton	14.7	19.1	17.3	20.0	24.3	24.9	17.0	17.5	18	17.3
Chelan	20.7	33.7	28.0	42.7	27.3	37.8	19.1	26.4	23	29.8
Clallam	29.0	38.6	40.0	46.5	37.0	38.5	25.9	26.9	32	32.7
Clark	68.7	39.0	85.0	41.6	97.7	41.2	68.4	28.8	74	28.2
Columbia	1.3	*	2.0	34.6	1.7	27.1	1.2	19.0	4	*
Cowlitz	21.0	27.2	24.7	28.9	40.7	43.4	28.5	30.4	31	31.3
Douglas	6.3	28.9	6.3	25.4	8.0	28.1	5.6	19.7	5	15.3
Ferry	1.0	*	2.3	47.9	2.7	46.2	1.9	32.4	2	*
Franklin	4.0	16.1	5.3	19.5	5.7	18.9	4.0	13.2	7	21.5
Garfield	1.7	43.9	3.3	86.5	1.3	*	0.9	*	0	*
Grant	15.0	34.8	17.7	34.3	16.3	27.9	11.4	19.5	18	29.1
Grays Harbor	33.0	46.8	18.3	24.5	30.0	37.8	21.0	26.5	30	37.1
Island	16.0	36.2	17.0	32.9	15.0	22.2	10.5	15.6	20	30.3
Jefferson	8.7	38.1	7.7	28.7	10.3	32.4	7.2	22.7	9	28.0
King	421.0	35.1	476.7	36.7	497.3	35.1	348.1	24.6	395	26.4
Kitsap	43.0	30.1	51.0	32.1	51.7	29.1	36.2	20.4	25	13.5
Kittitas	8.7	35.3	11.3	41.7	8.7	29.1	6.1	20.4	9	27.3
Klickitat	11.3	73.6	7.7	44.2	7.3	37.5	5.1	26.2	6	28.9
Lewis	16.7	24.4	19.3	26.7	23.0	29.0	16.1	20.3	19	23.0
Lincoln	2.7	20.3	4.7	33.1	4.0	29.2	2.8	20.4	3	*
Mason	12.3	34.0	16.7	39.0	19.7	39.6	13.8	27.7	10	17.7
Okanogan	11.0	33.4	12.3	34.4	18.7	47.6	13.1	33.3	13	32.1
Pacific	11.0	42.5	7.3	26.4	10.3	31.6	7.2	22.1	8	25.0
Pend Oreille	4.7	55.3	5.0	50.3	3.7	32.2	2.6	22.5	4	*
Pierce	116.0	26.0	137.7	27.8	139.7	25.9	97.8	18.1	105	18.2
San Juan	3.3	24.1	4.7	32.6	3.7	25.1	2.6	17.6	5	34.0
Skagit	33.7	38.8	30.3	32.2	40.7	38.5	28.5	26.9	23	20.1
Skamania	1.0	*	1.7	28.2	1.3	*	0.9	*	1	*
Snohomish	112.3	36.8	119.0	33.5	125.0	31.3	87.5	21.9	94	21.6
Spokane	121.0	34.6	153.7	40.6	175.3	42.6	122.7	29.8	106	24.5
Stevens	7.3	26.4	10.3	34.4	10.7	31.7	7.5	22.2	9	25.0
Thurston	48.0	36.1	46.3	30.3	47.0	27.5	32.9	19.3	23	12.7
Wahkiakum	1.0	*	0.7	*	2.0	35.6	1.4	24.9	1	*
Walla Walla	13.7	23.7	21.7	34.0	21.0	31.1	14.7	21.8	12	17.5
Whatcom	51.0	42.6	48.3	37.4	55.3	38.2	38.7	26.7	32	20.6
Whitman	7.3	28.3	8.0	29.4	3.7	12.4	2.6	8.7	10	32.2
Yakima	49.3	28.0	61.7	32.2	73.0	35.0	51.1	24.5	60	27.2

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are J10-J18.

Codes for International Classification of Diseases (Ninth Revision) are 480-487.

Comparability Ratio is 0.70 and standard error is 0.0018.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S16. Deaths and Age-Adjusted Death Rates Due to Chronic Lower Respiratory Disease by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996- 1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>2,007.7</b>	<b>45.7</b>	<b>2,232.0</b>	<b>47.4</b>	<b>2,335.7</b>	<b>46.5</b>	<b>2,452.5</b>	<b>48.8</b>	<b>2,706</b>	<b>51.6</b>
Adams	4.0	33.9	4.3	34.9	4.7	36.7	4.9	38.5	7	53.4
Asotin	12.7	58.9	13.7	61.4	12.7	53.0	13.3	55.6	20	82.2
Benton	41.7	48.7	47.3	51.2	47.0	\	49.4	49.4	66	62.2
Chelan	33.7	54.8	38.3	59.8	27.0	38.7	28.4	40.6	47	66.8
Clallam	34.7	40.7	35.0	37.2	39.7	39.1	41.7	41.0	49	47.0
Clark	98.0	49.0	118.3	53.5	120.7	47.9	126.7	50.3	138	51.4
Columbia	4.3	81.7	2.0	34.5	2.3	38.2	2.5	40.1	8	125.5
Cowlitz	43.7	52.0	50.7	57.1	50.7	53.4	53.2	56.1	59	59.7
Douglas	12.3	50.0	13.7	48.8	14.7	49.2	15.4	51.7	22	69.5
Ferry	1.0	*	4.3	76.1	3.3	59.6	3.5	62.5	2	*
Franklin	18.7	64.3	22.7	74.4	16.0	51.4	16.8	54.0	20	60.4
Garfield	2.3	66.9	1.0	*	1.3	*	1.4	*	0	*
Grant	27.0	51.0	30.3	53.2	36.3	57.5	38.2	60.4	32	46.8
Grays Harbor	44.3	59.1	52.3	67.3	47.0	59.3	49.4	62.3	55	69.1
Island	20.0	35.5	27.7	42.1	24.0	32.7	25.2	34.4	27	32.9
Jefferson	9.7	32.6	14.3	43.8	14.0	38.1	14.7	40.0	19	55.5
King	515.0	40.1	540.7	40.0	569.0	40.2	597.5	42.2	641	43.6
Kitsap	79.0	50.9	83.3	49.1	105.7	57.7	111.0	60.6	119	63.8
Kittitas	10.0	38.5	14.3	52.6	17.0	57.8	17.9	60.7	16	52.3
Klickitat	10.0	58.3	10.3	57.6	7.3	37.0	7.7	38.8	7	33.9
Lewis	33.0	46.6	35.0	48.8	35.7	45.8	37.5	48.1	32	39.3
Lincoln	6.0	44.3	5.0	38.2	5.3	37.7	5.6	39.6	2	*
Mason	19.7	44.2	24.7	48.9	29.7	54.0	31.2	56.7	31	54.9
Okanogan	19.3	54.3	16.3	45.0	22.0	56.1	23.1	58.9	24	59.8
Pacific	10.7	36.8	15.7	48.0	15.3	46.7	16.1	49.0	18	51.5
Pend Oreille	4.0	42.7	6.3	59.3	5.7	46.7	6.0	49.0	5	42.0
Pierce	251.7	52.6	278.0	53.5	290.7	52.5	305.2	55.2	314	54.1
San Juan	4.0	27.9	5.0	28.5	6.0	41.1	6.3	43.2	9	53.1
Skagit	30.0	32.2	42.3	42.1	52.3	48.0	55.0	50.4	56	48.6
Skamania	1.7	21.9	2.3	29.8	5.0	62.7	5.3	65.8	8	96.1
Snohomish	147.7	43.0	175.7	45.8	183.0	43.9	192.2	46.1	214	48.0
Spokane	191.3	53.0	214.3	56.2	222.0	55.3	233.1	58.1	264	63.3
Stevens	17.7	60.9	17.7	55.2	21.3	62.2	22.4	65.3	20	56.2
Thurston	58.0	39.8	82.0	50.5	95.0	54.4	99.8	57.1	125	68.4
Wahkiakum	2.0	46.0	2.3	45.8	4.7	85.6	4.9	89.9	2	*
Walla Walla	29.7	51.4	29.0	49.6	27.7	44.7	29.1	46.9	29	45.3
Whatcom	57.3	46.1	57.3	43.3	60.3	42.0	63.4	44.1	79	52.0
Whitman	9.0	34.3	11.3	40.6	14.0	48.5	14.7	50.9	16	55.0
Yakima	93.0	50.7	87.0	45.1	79.7	39.1	83.7	41.1	104	49.9

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are J40-J47.

Codes for International Classification of Diseases (Ninth Revision) are 490-494,496.

Comparability Ratio is 1.05 and standard error is 0.0009.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S17. Deaths and Age-Adjusted Death Rates Due to Chronic Liver Disease & Cirrhosis by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996-1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>433.3</b>	<b>9.5</b>	<b>457.7</b>	<b>9.3</b>	<b>482.7</b>	<b>9.1</b>	<b>502.0</b>	<b>9.5</b>	<b>530</b>	<b>9.6</b>
Adams	1.0	*	1.7	13.1	1.0	*	1.0	*	0	*
Asotin	3.3	17.2	3.0	16.0	1.3	*	1.4	*	2	*
Benton	6.7	6.6	8.7	7.9	8.3	7.1	8.7	7.4	8	6.7
Chelan	6.3	11.7	6.0	10.1	4.3	6.7	4.5	7.0	5	7.5
Clallam	8.0	10.7	6.7	8.4	5.7	7.0	5.9	7.3	6	7.2
Clark	17.3	7.9	20.7	8.4	19.3	6.8	20.1	7.0	18	6.0
Columbia	1.0	*	0.3	*	0.0	*	0.0	*	0	*
Cowlitz	7.3	8.8	7.7	8.6	10.7	11.3	11.1	11.8	9	9.1
Douglas	1.3	*	1.3	*	2.3	7.7	2.4	8.0	3	*
Ferry	0.0	*	1.7	23.9	2.7	37.9	2.8	39.4	1	*
Franklin	3.3	11.2	5.7	17.2	3.0	9.0	3.1	9.3	3	*
Garfield	0.0	*	0.0	*	0.3	*	0.3	*	1	*
Grant	3.7	7.3	5.0	8.6	4.3	6.8	4.5	7.1	4	*
Grays Harbor	8.3	12.5	11.0	15.5	11.7	16.6	12.1	17.2	12	16.2
Island	3.7	5.9	3.3	5.1	3.7	4.8	3.8	5.0	6	8.0
Jefferson	2.3	8.8	1.7	5.0	1.7	5.1	1.7	5.3	5	13.5
King	114.3	8.3	130.7	8.8	130.0	8.3	135.2	8.6	165	10.3
Kitsap	21.0	12.7	16.7	9.0	18.7	9.3	19.4	9.7	30	14.9
Kittitas	1.3	*	2.0	7.7	4.0	15.1	4.2	15.7	2	*
Klickitat	1.0	*	0.3	*	2.3	11.9	2.4	12.4	0	*
Lewis	6.0	9.6	7.3	11.7	9.0	12.9	9.4	13.4	10	13.6
Lincoln	1.0	*	0.7	*	1.0	*	1.0	*	1	*
Mason	2.7	6.0	5.0	11.7	5.7	11.0	5.9	11.4	9	16.3
Okanogan	4.3	12.7	7.3	20.3	7.0	18.2	7.3	18.9	6	15.0
Pacific	5.0	19.9	3.0	12.8	5.7	21.8	5.9	22.7	7	25.9
Pend Oreille	1.7	19.1	1.7	14.0	1.0	*	1.0	*	5	40.4
Pierce	56.0	10.9	56.3	10.0	46.0	7.7	47.8	8.0	65	10.4
San Juan	0.7	*	1.0	*	1.7	8.9	1.7	9.2	0	*
Skagit	9.3	10.3	7.7	8.2	7.3	7.2	7.6	7.4	7	6.7
Skamania	1.0	*	0.7	*	0.7	*	0.7	*	0	*
Snohomish	40.0	9.9	39.7	9.2	46.0	9.4	47.8	9.8	47	8.7
Spokane	42.7	12.5	47.7	13.1	53.3	13.7	55.5	14.3	46	11.4
Stevens	2.0	6.4	3.3	10.2	3.7	10.3	3.8	10.7	5	13.1
Thurston	14.7	9.1	11.0	6.4	16.3	8.7	17.0	9.1	8	4.1
Wahkiakum	0.3	*	0.0	*	0.0	*	0.0	*	0	*
Walla Walla	5.0	9.2	3.3	6.2	5.7	11.2	5.9	11.7	4	*
Whatcom	9.3	7.7	9.3	7.3	13.3	9.4	13.9	9.8	6	4.0
Whitman	2.0	7.5	1.7	6.2	1.7	6.0	1.7	6.2	1	*
Yakima	18.3	10.8	17.0	9.4	22.3	11.6	23.2	12.1	23	11.3

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are K70,K73-K74.

Codes for International Classification of Diseases (Ninth Revision) are 571.

Comparability Ratio is 1.04 and standard error is 0.0027.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S18. Deaths and Age-Adjusted Death Rates Due to Drug Induced Causes by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996- 1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>256.0</b>	<b>5.1</b>	<b>384.3</b>	<b>7.1</b>	<b>476.0</b>	<b>8.3</b>	<b>571.2</b>	<b>10.0</b>	<b>594</b>	<b>10.2</b>
Adams	0.3	*	0.3	*	0.0	*	0.0	*	1	*
Asotin	1.0	*	1.0	*	1.3	*	1.6	*	1	*
Benton	3.3	2.9	7.3	6.0	7.7	6.2	9.2	7.4	14	10.0
Chelan	2.3	4.5	3.0	5.2	5.0	8.4	6.0	10.1	7	11.2
Clallam	2.0	3.4	3.7	6.4	4.0	5.9	4.8	7.1	3	*
Clark	10.0	4.0	14.3	5.2	25.0	7.7	30.0	9.3	36	10.8
Columbia	0.3	*	0.0	*	0.3	*	0.4	*	0	*
Cowlitz	3.7	4.3	7.0	8.0	6.0	6.7	7.2	8.0	17	18.5
Douglas	1.0	*	1.0	*	3.0	9.7	3.6	11.6	2	*
Ferry	0.0	*	0.0	*	0.0	*	0.0	*	2	*
Franklin	1.7	4.3	2.3	5.8	1.7	4.2	2.0	5.1	4	*
Garfield	0.0	*	0.0	*	0.0	*	0.0	*	0	*
Grant	1.3	*	5.0	8.6	3.0	4.7	3.6	5.6	7	10.6
Grays Harbor	5.0	8.0	8.0	12.4	7.0	10.4	8.4	12.4	13	19.8
Island	1.3	*	5.0	8.2	3.0	4.4	3.6	5.3	3	*
Jefferson	1.7	7.9	1.0	*	2.0	7.2	2.4	8.7	2	*
King	109.3	6.7	149.7	8.6	192.7	10.6	231.2	12.8	205	11.5
Kitsap	8.7	4.6	8.7	4.2	10.3	4.6	12.4	5.5	26	11.5
Kittitas	0.3	*	1.0	*	1.0	*	1.2	*	0	*
Klickitat	0.3	*	1.3	*	0.7	*	0.8	*	2	*
Lewis	1.7	3.3	2.7	4.3	5.7	8.9	6.8	10.7	3	*
Lincoln	0.0	*	0.0	*	0.7	*	0.8	*	0	*
Mason	0.7	*	4.7	10.9	6.0	12.7	7.2	15.2	11	23.2
Okanogan	1.0	*	1.7	4.8	2.7	7.0	3.2	8.4	3	*
Pacific	0.3	*	2.0	10.0	2.7	13.6	3.2	16.3	2	*
Pend Oreille	1.7	17.6	0.0	*	1.0	*	1.2	*	0	*
Pierce	31.3	5.5	58.3	9.3	68.3	10.3	82.0	12.4	77	11.2
San Juan	0.0	*	0.3	*	0.3	*	0.4	*	0	*
Skagit	5.3	6.7	6.3	7.1	8.7	9.0	10.4	10.8	8	8.0
Skamania	0.0	*	0.3	*	0.3	*	0.4	*	2	*
Snohomish	21.3	4.7	36.0	6.7	37.7	6.5	45.2	7.8	55	9.2
Spokane	15.3	4.2	17.7	4.5	22.0	5.4	26.4	6.5	37	9.0
Stevens	1.0	*	1.3	*	0.7	*	0.8	*	3	*
Thurston	8.3	4.9	10.3	5.5	16.3	8.2	19.6	9.8	16	7.9
Wahkiakum	0.0	*	0.3	*	0.0	*	0.0	*	0	*
Walla Walla	2.0	4.3	1.3	*	3.0	5.7	3.6	6.9	2	*
Whatcom	6.0	4.6	8.0	5.5	10.0	6.4	12.0	7.7	13	8.0
Whitman	0.3	*	2.3	7.6	0.3	*	0.4	*	1	*
Yakima	6.0	3.4	11.0	5.8	16.0	8.1	19.2	9.7	16	8.1

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are F11.0-F11.5,F11.7-F11.9,F12.0-F12.5, F12.7-F12.9,F13.0-F13.5,F13.7-F13.9,F14.0-F14.5,F14.7-F14.9,F15.0-F15.5,F15.7-F15.9,F16.0-F16.5,F16.7-F16.9, F17.0,F17.3-F17.5,F17.7-F17.9,,F18.0-F18.5,F187.7-F18.9,F19.0-F19.5,F19.7-F19.9,X40-X44,X60-X64,X85,Y10-Y14. Codes for International Classification of Diseases (Ninth Revision) are 292,304,305.2-305.9,E850-E858,E950.0-E950.5,E962.0, E980.0-E980.

Comparability Ratio is 1.20 and standard error is 0.0225.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S19. Deaths and Age-Adjusted Death Rates Due to Alcohol Induced Causes by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		<u>Comparability</u> <u>Modified 1996-</u> <u>1998</u>		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>352.0</b>	<b>7.7</b>	<b>515.7</b>	<b>10.4</b>	<b>567.7</b>	<b>10.6</b>	<b>550.6</b>	<b>10.3</b>	<b>551</b>	<b>9.8</b>
Adams	1.0	*	1.3	*	1.3	*	1.3	*	0	*
Asotin	1.7	10.1	4.0	21.9	1.3	*	1.3	*	2	*
Benton	6.3	6.3	10.3	9.3	8.7	7.2	8.4	7.0	8	6.7
Chelan	5.7	10.4	7.7	13.4	6.7	10.9	6.5	10.5	7	10.5
Clallam	7.3	10.6	6.7	8.4	5.7	7.4	5.5	7.2	9	11.7
Clark	16.7	7.6	23.0	9.5	31.0	10.7	30.1	10.3	23	7.4
Columbia	1.0	*	0.3	*	0.0	*	0.0	*	0	*
Cowlitz	6.7	8.1	9.3	10.4	12.7	13.5	12.3	13.1	9	9.1
Douglas	1.0	*	1.0	*	2.3	7.4	2.3	7.1	3	*
Ferry	0.0	*	1.7	24.2	2.7	37.9	2.6	36.7	1	*
Franklin	2.7	8.2	5.3	16.1	2.3	7.1	2.3	6.8	4	*
Garfield	1.0	*	0.3	*	0.3	*	0.3	*	1	*
Grant	4.0	7.2	5.3	9.2	6.0	9.5	5.8	9.2	4	*
Grays Harbor	8.0	11.6	11.3	16.6	15.3	21.9	14.9	21.2	14	19.2
Island	3.7	5.9	3.7	6.2	6.0	8.3	5.8	8.1	6	8.0
Jefferson	1.0	*	1.7	5.2	2.7	8.0	2.6	7.7	2	*
King	87.3	6.2	142.3	9.6	141.7	8.9	137.4	8.7	168	10.2
Kitsap	16.3	9.8	20.7	11.3	21.7	10.8	21.0	10.5	29	14.2
Kittitas	2.0	8.4	2.7	10.5	4.3	16.3	4.2	15.8	1	*
Klickitat	2.3	15.1	0.3	*	3.3	17.1	3.2	16.6	0	*
Lewis	6.7	11.3	8.7	13.9	8.7	12.6	8.4	12.2	8	10.8
Lincoln	1.0	*	0.7	*	1.0	*	1.0	*	0	*
Mason	1.7	3.8	6.0	13.4	6.7	12.8	6.5	12.5	9	16.5
Okanogan	6.0	17.2	9.7	26.8	10.7	27.9	10.3	27.0	6	15.2
Pacific	5.3	20.7	4.0	18.7	7.0	28.9	6.8	28.1	8	32.9
Pend Oreille	1.3	*	1.3	*	1.3	*	1.3	*	5	40.4
Pierce	48.3	9.4	67.0	11.9	54.7	9.1	53.0	8.8	60	9.4
San Juan	0.3	*	2.3	15.2	2.3	12.3	2.3	11.9	0	*
Skagit	6.3	7.2	8.7	9.6	9.3	9.1	9.1	8.8	11	10.3
Skamania	1.0	*	0.7	*	0.7	*	0.6	*	0	*
Snohomish	19.3	4.8	37.7	8.7	54.7	10.9	53.0	10.6	47	8.4
Spokane	29.7	8.9	53.0	14.7	58.7	15.1	56.9	14.7	43	10.7
Stevens	1.7	5.7	4.3	13.0	3.0	8.3	2.9	8.1	3	*
Thurston	14.7	9.3	14.0	7.9	22.3	11.7	21.7	11.4	20	9.8
Wahkiakum	0.7	*	0.0	*	0.7	*	0.6	*	0	*
Walla Walla	4.0	8.4	3.0	5.5	5.0	9.9	4.9	9.6	3	*
Whatcom	8.7	7.2	12.7	9.9	15.3	10.7	14.9	10.3	11	7.1
Whitman	2.3	8.9	2.3	8.6	2.3	8.4	2.3	8.2	2	*
Yakima	17.3	10.3	20.7	11.6	27.3	14.3	26.5	13.9	24	12.1

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are F10,G31.2,G62.1,I42.6,K29.2,K70,R78.0,X45, X65,Y15.

Codes for International Classification of Diseases (Ninth Revision) are 291,303,305.0,357.5,425.5,535.3,571.0-571.3,790.3, E860.

Comparability Ratio is 0.97 and standard error is 0.0025.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S20. Deaths and Age-Adjusted Death Rates Due to Malignant Neoplasms of All Sites by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996- 1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>9,244.3</b>	<b>207.8</b>	<b>9,912.3</b>	<b>207.9</b>	<b>10,165.7</b>	<b>199.3</b>	<b>10,267.3</b>	<b>201.3</b>	<b>10,641</b>	<b>200.0</b>
Adams	26.3	227.3	23.3	196.2	24.7	191.3	24.9	193.2	24	181.6
Asotin	45.0	222.6	49.3	232.6	50.7	223.2	51.2	225.4	51	209.8
Benton	192.3	209.1	200.7	203.6	212.0	201.0	214.1	203.0	225	201.2
Chelan	118.3	200.3	141.3	228.5	129.0	194.0	130.3	196.0	130	186.1
Clallam	179.0	220.6	173.7	196.2	194.3	201.4	196.3	203.4	211	214.2
Clark	457.0	224.1	489.3	214.9	517.3	199.3	522.5	201.3	550	194.9
Columbia	9.3	183.8	14.3	261.1	13.7	242.5	13.8	244.9	19	325.9
Cowlitz	170.3	204.9	209.0	234.0	199.3	210.0	201.3	212.1	216	218.0
Douglas	42.0	169.7	44.0	159.0	57.7	184.1	58.2	185.9	57	177.1
Ferry	8.3	153.7	13.0	214.9	16.7	259.8	16.8	262.4	12	188.0
Franklin	58.3	202.2	70.0	220.4	74.0	230.3	74.7	232.6	69	201.7
Garfield	7.3	211.3	10.7	292.3	6.7	219.1	6.7	221.3	3	*
Grant	102.3	198.3	119.3	205.9	117.7	184.2	118.8	186.1	124	179.4
Grays Harbor	175.7	241.9	175.7	233.8	192.3	250.1	194.3	252.6	190	244.0
Island	114.3	188.9	129.3	188.2	130.0	181.5	131.3	183.3	137	177.1
Jefferson	52.0	178.4	76.7	235.5	74.3	202.6	75.1	204.6	85	229.4
King	2,698.3	205.5	2,820.3	204.4	2,797.0	193.1	2,825.0	195.0	2,911	193.4
Kitsap	341.3	212.1	382.7	220.6	400.0	213.3	404.0	215.4	387	201.2
Kittitas	53.7	209.4	57.0	210.8	56.3	195.8	56.9	197.8	58	193.8
Klickitat	39.3	235.5	36.0	196.1	38.3	193.1	38.7	195.1	42	204.6
Lewis	147.0	219.7	166.7	236.3	158.0	209.7	159.6	211.8	176	226.0
Lincoln	24.0	189.8	26.3	202.9	23.7	177.4	23.9	179.2	27	197.6
Mason	100.3	222.8	124.0	246.4	124.7	228.7	125.9	231.0	116	199.8
Okanogan	73.3	211.7	79.0	214.7	79.3	203.2	80.1	205.2	86	216.2
Pacific	68.7	240.7	60.0	189.8	69.0	218.2	69.7	220.4	61	175.2
Pend Oreille	20.3	213.5	22.7	205.6	27.3	222.1	27.6	224.3	22	180.1
Pierce	1,055.7	214.0	1,118.7	209.1	1,166.7	205.4	1,178.3	207.4	1,269	211.9
San Juan	23.3	166.2	26.7	155.6	28.7	172.1	29.0	173.8	26	150.0
Skagit	191.0	206.1	198.3	199.0	203.7	190.9	205.7	192.8	240	211.6
Skamania	16.3	232.6	16.3	197.1	19.0	225.3	19.2	227.6	17	208.2
Snohomish	746.0	204.4	822.7	205.9	890.7	201.5	899.6	203.5	1,003	214.2
Spokane	762.0	213.9	800.7	213.4	812.7	204.7	820.8	206.7	793	193.0
Stevens	62.3	213.4	69.7	218.3	76.7	217.8	77.4	220.0	61	166.0
Thurston	312.0	208.7	338.3	203.3	358.7	199.2	362.3	201.2	393	208.8
Wahkiakum	8.7	198.4	8.0	168.3	9.3	180.6	9.4	182.4	13	243.9
Walla Walla	102.0	183.2	106.3	188.4	103.0	173.0	104.0	174.7	125	206.5
Whatcom	246.0	201.4	269.7	204.7	284.3	198.6	287.2	200.6	267	177.3
Whitman	45.3	169.4	55.3	203.6	46.3	164.6	46.8	166.3	44	151.1
Yakima	349.3	192.1	367.3	195.1	382.0	191.8	385.8	193.7	401	194.5

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are C00-C97.

Codes for International Classification of Diseases (Ninth Revision) in 1990-1998 are 140-208.

Comparability Ratio is 1.01 and standard error is 0.0002.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S21. Deaths and Age-Adjusted Death Rates Due to Malignant Neoplasms of Lung, Trachea, and Bronchus by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996- 1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>2,695.3</b>	<b>59.7</b>	<b>2,892.3</b>	<b>60.2</b>	<b>2,947.7</b>	<b>57.8</b>	<b>2,888.7</b>	<b>56.7</b>	<b>3,054</b>	<b>57.7</b>
Adams	6.7	53.5	6.0	48.9	6.3	48.7	6.2	47.7	6	45.6
Asotin	11.0	53.9	16.0	76.8	14.3	63.4	14.0	62.1	13	56.0
Benton	60.7	65.2	53.7	53.4	63.3	59.9	62.1	58.7	55	49.6
Chelan	35.3	59.2	40.7	64.3	38.0	56.8	37.2	55.7	39	56.7
Clallam	54.7	64.8	48.3	51.2	55.0	56.6	53.9	55.4	58	58.3
Clark	142.7	68.9	162.0	70.1	162.0	62.3	158.8	61.0	156	55.4
Columbia	2.7	52.1	3.7	67.0	5.3	92.3	5.2	90.5	3	*
Cowlitz	51.3	61.1	61.7	68.3	61.7	64.6	60.4	63.3	73	73.6
Douglas	12.0	45.3	13.3	47.8	17.7	55.1	17.3	54.0	15	45.7
Ferry	5.3	95.3	4.0	63.0	4.7	70.4	4.6	69.0	1	*
Franklin	15.7	53.4	23.0	74.3	22.0	66.9	21.6	65.6	23	67.7
Garfield	1.0	*	2.7	72.4	2.3	69.8	2.3	68.4	1	*
Grant	27.0	49.4	31.3	52.7	32.7	50.0	32.0	49.0	40	57.2
Grays Harbor	59.7	81.2	53.3	70.6	68.7	89.4	67.3	87.6	66	84.1
Island	37.3	59.3	40.0	56.4	34.7	46.5	34.0	45.6	37	47.1
Jefferson	18.7	61.1	19.0	56.4	23.3	62.2	22.9	60.9	23	59.2
King	748.3	56.5	792.7	57.5	753.7	52.5	738.6	51.4	761	51.2
Kitsap	105.7	64.9	105.3	60.0	122.7	65.6	120.2	64.3	112	58.4
Kittitas	15.7	60.3	14.7	54.1	18.3	63.6	18.0	62.3	15	51.0
Klickitat	10.7	63.1	12.7	67.6	11.0	55.6	10.8	54.5	9	43.9
Lewis	48.3	70.6	51.0	72.0	50.7	67.0	49.7	65.7	65	84.8
Lincoln	6.7	51.3	5.0	41.5	7.0	50.6	6.9	49.6	5	37.0
Mason	33.0	71.4	43.0	81.5	47.3	84.5	46.4	82.8	40	67.1
Okanogan	25.3	73.3	24.7	65.9	26.7	68.1	26.1	66.7	22	55.4
Pacific	24.0	78.8	22.0	70.3	19.7	61.4	19.3	60.2	20	54.0
Pend Oreille	9.0	91.1	9.0	79.7	7.7	61.8	7.5	60.6	6	45.9
Pierce	300.7	59.9	330.7	61.0	348.7	61.1	341.7	59.9	395	66.0
San Juan	4.7	26.6	5.7	31.7	7.3	40.3	7.2	39.5	8	46.6
Skagit	54.0	57.2	56.7	56.1	61.0	57.1	59.8	56.0	64	56.0
Skamania	4.3	64.3	5.0	61.2	4.7	56.8	4.6	55.7	5	61.4
Snohomish	214.0	57.8	248.3	61.5	248.7	56.3	243.7	55.2	320	68.2
Spokane	219.3	61.1	247.7	65.9	230.3	58.3	225.7	57.1	221	54.3
Stevens	13.3	45.5	23.0	71.6	21.3	60.4	20.9	59.2	13	35.9
Thurston	94.0	61.9	95.3	56.6	117.3	65.0	115.0	63.7	122	64.9
Wahkiakum	3.0	65.2	1.3	*	2.7	50.0	2.6	49.0	3	*
Walla Walla	26.0	47.6	26.3	46.7	29.3	50.1	28.7	49.1	41	70.7
Whatcom	65.3	52.8	69.3	52.4	68.7	48.4	67.3	47.4	62	41.5
Whitman	9.7	36.3	16.0	59.4	11.7	41.7	11.4	40.9	11	38.0
Yakima	118.7	64.6	108.3	57.5	119.3	60.3	116.9	59.1	125	61.2

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are C33-C34.

Codes for International Classification of Diseases (Ninth Revision) in 1990-1998 are 162.

Comparability Ratio is 0.98 and standard error is 0.0005.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

The ICD-10 codes selected for this group differs slightly from Cancer Registry groups. See <http://198.187.0.44/WSCR/> to obtain reports of the Washington State Cancer Registry or to obtain information about other cancer sites.

Table S22. Deaths and Age-Adjusted Death Rates Due to Malignant Neoplasms of Colo-Rectal by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996-1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>907.7</b>	<b>20.7</b>	<b>995.0</b>	<b>21.2</b>	<b>984.0</b>	<b>19.4</b>	<b>984.0</b>	<b>19.4</b>	<b>992</b>	<b>18.7</b>
Adams	3.7	32.2	3.0	26.2	2.7	20.0	2.7	20.0	8	60.9
Asotin	4.7	20.8	3.0	14.9	5.0	21.5	5.0	21.5	5	19.4
Benton	20.0	22.8	21.7	22.9	23.3	22.5	23.3	22.5	19	16.5
Chelan	9.3	16.6	15.0	24.8	11.0	15.8	11.0	15.8	13	18.0
Clallam	19.3	24.2	15.3	17.3	19.3	19.4	19.3	19.4	18	18.3
Clark	48.0	24.5	52.7	24.1	48.7	19.1	48.7	19.1	51	18.7
Columbia	1.0	*	1.7	31.1	2.3	38.7	2.3	38.7	3	*
Cowlitz	13.0	15.7	22.3	24.8	21.0	22.2	21.0	22.2	22	22.2
Douglas	5.3	22.8	3.3	12.5	7.3	23.8	7.3	23.8	5	16.4
Ferry	0.3	*	1.7	24.7	2.3	36.5	2.3	36.5	3	*
Franklin	5.3	20.0	8.0	25.3	7.7	25.3	7.7	25.3	4	*
Garfield	0.7	*	1.0	*	0.7	*	0.7	*	0	*
Grant	8.7	17.8	13.3	23.8	11.3	18.7	11.3	18.7	9	12.9
Grays Harbor	15.3	20.2	20.3	27.1	16.3	20.8	16.3	20.8	13	16.3
Island	9.3	15.8	12.7	18.8	13.3	19.0	13.3	19.0	19	24.6
Jefferson	4.3	16.5	8.0	25.0	6.0	16.6	6.0	16.6	7	19.9
King	273.0	21.2	280.7	20.7	280.3	19.6	280.3	19.6	271	18.0
Kitsap	32.0	20.0	41.7	24.4	34.7	18.9	34.7	18.9	26	13.9
Kittitas	4.7	17.6	4.0	14.8	4.0	13.7	4.0	13.7	5	17.0
Klickitat	3.0	18.1	2.7	14.6	3.7	18.4	3.7	18.4	7	34.1
Lewis	11.0	16.2	17.7	25.0	12.7	16.6	12.7	16.6	7	9.4
Lincoln	2.3	17.7	3.0	23.6	1.3	*	1.3	*	3	*
Mason	10.7	24.8	12.3	25.1	9.7	17.5	9.7	17.5	7	11.9
Okanogan	6.3	18.7	8.3	22.4	7.0	17.9	7.0	17.9	4	*
Pacific	6.0	21.0	4.0	13.3	7.3	23.1	7.3	23.1	8	22.4
Pend Oreille	2.7	29.2	2.0	19.0	2.3	18.5	2.3	18.5	3	*
Pierce	102.3	21.0	110.3	20.9	113.7	20.3	113.7	20.3	127	21.3
San Juan	2.7	18.7	4.0	22.5	2.7	17.2	2.7	17.2	0	*
Skagit	22.3	23.6	19.7	19.4	18.7	17.3	18.7	17.3	22	19.6
Skamania	1.0	*	2.0	23.6	3.7	43.6	3.7	43.6	2	*
Snohomish	74.0	20.9	85.7	22.2	89.7	20.9	89.7	20.9	83	18.1
Spokane	73.3	20.5	78.7	21.1	76.7	19.2	76.7	19.2	93	22.4
Stevens	8.7	29.7	5.0	15.7	10.0	28.7	10.0	28.7	6	16.5
Thurston	27.7	19.0	32.3	20.2	30.0	16.8	30.0	16.8	37	19.8
Wahkiakum	0.3	*	0.7	*	1.3	*	1.3	*	2	*
Walla Walla	12.7	21.7	10.0	18.0	8.7	14.6	8.7	14.6	10	15.6
Whatcom	26.3	21.6	27.3	20.8	30.3	21.2	30.3	21.2	35	23.2
Whitman	7.7	28.6	4.3	16.0	5.3	19.0	5.3	19.0	2	*
Yakima	28.7	15.8	35.7	18.9	32.0	16.0	32.0	16.0	33	16.1

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are C18-C21.

Codes for International Classification of Diseases (Ninth Revision) in 1990-1998 are 153-154.

Comparability Ratio is 1.00 and standard error is 0.0009.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

The ICD-10 codes selected for this group differs slightly from Cancer Registry groups. See <http://198.187.0.44/WSCR/> to obtain reports of the Washington State Cancer Registry or to obtain information about other cancer sites.



Table S23. Deaths and Age-Adjusted Death Rates Due to Malignant Neoplasms of Female Breast by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996- 1998		1999 (ICD-10)	
	Mean No.	Rate <sup>2</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>768.7</b>	<b>31.4</b>	<b>793.0</b>	<b>29.9</b>	<b>778.0</b>	<b>27.4</b>	<b>785.8</b>	<b>27.7</b>	<b>722</b>	<b>24.1</b>
Adams	3.7	61.5	2.3	37.0	0.3	*	0.3	*	0	*
Asotin	3.3	32.1	2.7	23.5	1.7	15.2	1.7	15.3	1	*
Benton	16.0	31.1	16.0	28.5	14.0	23.5	14.1	23.8	27	42.8
Chelan	12.0	36.8	10.3	32.6	10.7	29.2	10.8	29.5	4	*
Clallam	14.7	35.9	12.0	26.1	11.0	21.0	11.1	21.2	12	24.7
Clark	35.7	31.4	34.3	26.6	39.3	26.6	39.7	26.9	26	16.0
Columbia	0.0	*	0.7	*	0.7	*	0.7	*	1	*
Cowlitz	14.3	31.2	12.3	25.9	14.7	28.7	14.8	28.9	12	21.0
Douglas	1.7	11.7	3.3	22.8	4.0	23.8	4.0	24.1	6	34.0
Ferry	0.3	*	1.0	*	0.3	*	0.3	*	3	*
Franklin	5.3	34.6	4.7	27.1	4.3	26.0	4.4	26.2	2	*
Garfield	1.0	*	0.7	*	1.3	*	1.3	*	1	*
Grant	6.0	23.5	7.7	25.8	7.0	21.5	7.1	21.7	6	16.8
Grays Harbor	12.0	32.2	14.7	37.3	10.3	26.3	10.4	26.5	12	29.1
Island	9.0	27.7	9.3	27.6	10.7	29.0	10.8	29.3	12	26.9
Jefferson	3.7	25.7	6.7	40.2	5.0	25.6	5.1	25.9	8	43.4
King	249.7	33.5	235.0	29.8	247.3	29.8	249.8	30.1	198	22.7
Kitsap	24.3	27.2	30.3	31.8	28.7	27.5	29.0	27.7	42	39.2
Kittitas	3.0	22.5	4.0	27.9	3.0	20.0	3.0	20.2	1	*
Klickitat	3.7	40.5	3.0	32.4	4.0	39.2	4.0	39.6	2	*
Lewis	14.3	41.8	14.0	36.8	10.3	26.5	10.4	26.8	10	24.8
Lincoln	2.7	37.3	3.0	45.3	2.0	35.5	2.0	35.9	3	*
Mason	6.0	27.8	7.7	29.8	5.7	19.3	5.7	19.5	4	*
Okanogan	3.7	20.0	6.7	34.6	4.0	19.4	4.0	19.6	1	*
Pacific	3.3	21.1	2.0	10.6	3.3	20.8	3.4	21.0	6	31.1
Pend Oreille	0.7	*	0.7	*	2.0	29.9	2.0	30.2	0	*
Pierce	88.7	32.3	94.3	31.6	83.3	26.1	84.2	26.3	73	21.5
San Juan	2.3	34.4	1.7	17.5	2.0	22.7	2.0	22.9	4	*
Skagit	11.3	22.2	14.7	27.6	15.3	26.1	15.5	26.4	15	24.0
Skamania	1.7	43.2	1.3	*	1.7	35.5	1.7	35.8	1	*
Snohomish	63.3	30.9	75.0	32.6	69.3	27.5	70.0	27.8	73	26.9
Spokane	59.0	29.4	64.0	30.8	63.3	29.1	64.0	29.4	66	28.6
Stevens	4.7	30.0	4.0	23.5	6.0	31.7	6.1	32.0	3	*
Thurston	26.0	31.0	28.7	30.6	27.3	26.5	27.6	26.8	26	23.7
Wahkiakum	0.3	*	0.7	*	1.3	*	1.3	*	1	*
Walla Walla	8.3	28.7	12.0	37.1	6.7	21.4	6.7	21.6	11	32.5
Whatcom	23.7	35.8	20.0	26.7	24.3	30.2	24.6	30.5	25	30.9
Whitman	3.3	22.6	4.7	30.7	5.0	34.0	5.1	34.4	4	*
Yakima	26.0	26.7	27.0	26.8	26.7	25.0	26.9	25.2	20	17.2

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are C50.

Codes for International Classification of Diseases (Ninth Revision) are 174-175.

Comparability Ratio is 1.01 and standard error is 0.0010.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S24. Deaths and Age-Adjusted Death Rates Due to Malignant Neoplasms of Prostate by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996-1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>630.3</b>	<b>38.3</b>	<b>655.7</b>	<b>37.1</b>	<b>601.3</b>	<b>31.4</b>	<b>607.3</b>	<b>31.7</b>	<b>599</b>	<b>30.0</b>
Adams	2.0	33.7	3.7	85.7	1.7	33.4	1.7	33.7	3	*
Asotin	3.3	35.2	5.0	59.5	4.0	41.2	4.0	41.6	0	*
Benton	11.7	38.1	13.3	38.0	15.3	40.1	15.5	40.5	7	17.9
Chelan	8.0	32.6	12.0	47.4	9.7	35.7	9.8	36.0	10	34.4
Clallam	10.3	27.5	14.7	38.4	11.3	29.5	11.4	29.8	18	37.5
Clark	27.7	37.7	25.7	32.4	28.7	30.2	29.0	30.5	36	34.1
Columbia	1.0	*	2.0	84.8	0.3	*	0.3	*	2	*
Cowlitz	14.3	42.3	16.3	45.8	10.0	26.3	10.1	26.6	9	22.4
Douglas	2.7	25.8	3.7	32.9	2.7	20.6	2.7	20.8	5	43.6
Ferry	0.7	*	0.3	*	0.3	*	0.3	*	2	*
Franklin	4.7	38.0	6.3	48.3	6.3	52.2	6.4	52.7	8	56.4
Garfield	1.0	*	1.0	*	0.3	*	0.3	*	0	*
Grant	9.7	45.1	10.3	41.6	9.0	32.4	9.1	32.8	4	*
Grays Harbor	12.3	40.0	9.7	29.9	11.0	32.8	11.1	33.1	9	27.0
Island	6.0	27.2	10.7	40.8	6.3	23.3	6.4	23.6	5	12.7
Jefferson	2.7	20.2	5.7	39.9	6.7	44.7	6.7	45.1	10	60.7
King	182.7	40.8	190.0	39.3	160.0	30.8	161.6	31.1	173	32.5
Kitsap	22.3	37.3	25.0	39.2	21.0	29.3	21.2	29.6	22	32.1
Kittitas	5.7	53.7	3.0	25.6	3.0	27.1	3.0	27.3	5	40.1
Klickitat	3.3	44.7	1.3	*	3.0	34.0	3.0	34.3	6	70.1
Lewis	12.7	49.4	11.0	38.8	12.0	39.4	12.1	39.8	9	27.4
Lincoln	2.0	32.2	2.7	44.7	1.3	*	1.3	*	0	*
Mason	6.3	36.4	5.7	29.8	6.7	26.6	6.7	26.9	6	24.1
Okanogan	4.0	26.4	5.3	34.3	5.3	34.0	5.4	34.4	6	35.9
Pacific	4.7	49.6	4.3	28.5	4.0	26.9	4.0	27.2	4	*
Pend Oreille	2.0	49.4	2.0	45.3	1.0	*	1.0	*	0	*
Pierce	66.7	38.2	62.3	32.8	68.7	32.7	69.4	33.0	62	29.2
San Juan	1.3	*	2.0	29.4	1.7	25.1	1.7	25.3	0	*
Skagit	14.0	36.9	13.7	33.7	9.3	21.6	9.4	21.8	18	38.6
Skamania	1.0	*	1.3	*	1.7	50.2	1.7	50.7	3	*
Snohomish	49.0	38.4	53.0	38.9	51.3	33.5	51.8	33.8	46	27.3
Spokane	52.7	38.8	49.3	35.3	46.3	30.8	46.8	31.1	46	29.6
Stevens	5.3	45.2	7.3	55.5	5.7	40.1	5.7	40.5	2	*
Thurston	17.7	31.1	23.7	37.5	21.0	31.0	21.2	31.3	24	38.3
Wahkiakum	0.0	*	1.7	69.8	0.7	*	0.7	*	0	*
Walla Walla	7.0	29.8	7.7	31.9	9.3	37.6	9.4	38.0	5	19.9
Whatcom	18.0	38.4	16.7	33.7	18.3	33.0	18.5	33.3	11	19.1
Whitman	5.3	45.9	5.0	43.3	3.7	29.2	3.7	29.5	4	*
Yakima	28.7	38.4	21.3	28.6	22.7	28.0	22.9	28.3	19	22.4

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are C61.

Codes for International Classification of Diseases (Ninth Revision) are 185.

Comparability Ratio is 1.01 and standard error is 0.0015.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S25. Deaths and Age-Adjusted Death Rates Due to Malignant Neoplasms of Pancreas by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996-1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>481.3</b>	<b>10.9</b>	<b>504.0</b>	<b>10.6</b>	<b>561.7</b>	<b>11.1</b>	<b>561.7</b>	<b>11.1</b>	<b>557</b>	<b>10.5</b>
Adams	0.7	*	1.0	*	1.3	*	1.3	*	2	*
Asotin	3.3	15.7	1.7	8.7	2.7	11.1	2.7	11.1	2	*
Benton	10.7	12.0	13.7	13.9	13.7	12.9	13.7	12.9	10	8.9
Chelan	7.7	12.7	6.0	9.7	5.3	8.0	5.3	8.0	8	11.7
Clallam	8.0	10.0	10.7	11.8	11.7	12.2	11.7	12.2	6	6.5
Clark	21.0	10.5	22.7	10.2	24.3	9.5	24.3	9.5	34	12.2
Columbia	0.0	*	0.7	*	1.0	*	1.0	*	3	*
Cowlitz	8.3	10.2	8.7	9.8	13.7	14.4	13.7	14.4	10	10.1
Douglas	2.3	8.8	2.7	9.5	4.0	12.8	4.0	12.8	4	*
Ferry	0.0	*	0.7	*	1.3	*	1.3	*	1	*
Franklin	2.3	8.0	2.3	7.6	4.7	14.3	4.7	14.3	3	*
Garfield	1.0	*	1.0	*	0.3	*	0.3	*	0	*
Grant	5.0	10.3	3.7	5.9	8.0	12.6	8.0	12.6	8	11.4
Grays Harbor	9.0	11.7	9.3	12.3	10.3	13.1	10.3	13.1	11	13.7
Island	5.0	8.2	5.7	7.9	8.3	11.2	8.3	11.2	5	7.0
Jefferson	3.3	10.3	5.0	14.2	4.7	12.4	4.7	12.4	1	*
King	142.0	11.0	147.3	10.8	156.3	10.9	156.3	10.9	178	11.9
Kitsap	17.7	11.2	17.7	10.0	15.0	8.0	15.0	8.0	19	10.1
Kittitas	3.0	11.3	2.3	8.2	4.3	14.7	4.3	14.7	2	*
Klickitat	1.7	10.1	2.3	12.9	1.7	8.3	1.7	8.3	2	*
Lewis	4.3	6.2	8.0	11.2	8.7	11.6	8.7	11.6	8	9.7
Lincoln	1.3	*	1.0	*	2.0	13.9	2.0	13.9	3	*
Mason	5.0	10.6	8.3	17.0	5.7	10.3	5.7	10.3	6	10.6
Okanogan	3.3	8.9	5.7	15.4	5.0	12.8	5.0	12.8	1	*
Pacific	2.3	8.4	3.0	9.2	4.3	14.9	4.3	14.9	0	*
Pend Oreille	0.0	*	0.0	*	1.3	*	1.3	*	1	*
Pierce	57.7	11.9	54.3	10.2	69.0	12.1	69.0	12.1	61	10.3
San Juan	1.7	13.6	2.0	11.5	1.7	8.9	1.7	8.9	3	*
Skagit	12.3	13.4	9.7	9.3	9.3	8.8	9.3	8.8	15	13.2
Skamania	1.3	*	1.0	*	0.3	*	0.3	*	1	*
Snohomish	40.7	11.6	40.3	10.3	49.0	11.2	49.0	11.2	48	10.1
Spokane	37.3	10.3	45.3	12.1	43.3	10.9	43.3	10.9	41	10.0
Stevens	4.7	15.5	2.0	6.1	3.7	10.5	3.7	10.5	3	*
Thurston	17.0	11.3	19.3	11.5	17.3	9.8	17.3	9.8	22	11.6
Wahkiakum	0.3	*	0.3	*	0.3	*	0.3	*	1	*
Walla Walla	5.0	8.9	4.7	8.2	7.3	12.1	7.3	12.1	7	11.7
Whatcom	14.7	12.1	13.7	10.6	15.7	11.1	15.7	11.1	13	8.7
Whitman	2.3	8.7	3.7	13.5	3.0	10.4	3.0	10.4	2	*
Yakima	18.0	9.8	16.7	8.9	22.0	11.1	22.0	11.1	12	5.8

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are C25.

Codes for International Classification of Diseases (Ninth Revision) are 157.

Comparability Ratio is 1.00 and standard error is 0.0009.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S26. Deaths and Age-Adjusted Death Rates Due to All Accidents by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996- 1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>1,669.0</b>	<b>34.7</b>	<b>1,718.7</b>	<b>33.5</b>	<b>1,877.3</b>	<b>34.6</b>	<b>1,933.7</b>	<b>35.7</b>	<b>1,913</b>	<b>34.0</b>
Adams	5.7	44.2	6.7	49.4	6.0	41.9	6.2	43.1	9	52.7
Asotin	9.0	48.2	7.7	37.1	10.7	51.1	11.0	52.6	13	61.1
Benton	32.7	30.9	41.7	36.9	42.7	36.1	43.9	37.2	33	26.3
Chelan	30.3	57.0	23.3	38.6	29.3	47.4	30.2	48.9	29	43.5
Clallam	29.3	47.7	29.0	42.4	33.7	50.1	34.7	51.6	15	20.0
Clark	88.7	38.9	90.3	35.4	98.7	33.4	101.6	34.4	100	31.7
Columbia	2.3	60.3	1.3	*	2.7	59.3	2.7	61.1	3	*
Cowlitz	32.7	38.7	27.7	31.6	40.7	44.6	41.9	46.0	39	41.5
Douglas	11.7	44.1	9.3	32.9	15.0	50.4	15.5	51.9	8	25.8
Ferry	6.0	95.3	6.3	98.2	5.7	94.3	5.8	97.2	9	126.1
Franklin	16.7	48.9	17.3	44.0	16.0	41.9	16.5	43.2	19	46.3
Garfield	0.0	*	1.0	*	2.0	84.6	2.1	87.1	0	*
Grant	26.3	48.5	27.0	45.3	38.7	59.7	39.8	61.5	51	75.1
Grays Harbor	38.3	58.5	38.7	57.1	32.7	46.8	33.6	48.3	34	50.0
Island	18.7	29.8	17.7	26.7	21.7	31.5	22.3	32.4	17	25.4
Jefferson	8.7	39.4	6.3	27.5	12.3	47.8	12.7	49.3	10	36.9
King	412.0	28.0	435.7	27.9	480.3	29.6	494.7	30.5	486	29.4
Kitsap	59.7	32.3	60.3	30.7	59.7	29.0	61.5	29.9	65	30.3
Kittitas	11.3	44.4	9.0	32.8	17.0	53.8	17.5	55.4	5	17.2
Klickitat	8.7	54.8	8.0	46.8	12.7	67.8	13.0	69.8	13	68.2
Lewis	31.0	51.4	36.7	56.3	32.0	46.9	33.0	48.3	26	37.2
Lincoln	4.0	37.7	4.0	38.6	4.0	31.0	4.1	32.0	3	*
Mason	19.3	50.6	21.0	47.8	27.3	57.7	28.2	59.4	28	57.5
Okanogan	23.0	72.6	22.3	64.8	27.7	73.9	28.5	76.1	32	82.9
Pacific	10.3	49.6	13.7	67.9	12.7	52.2	13.0	53.8	7	32.3
Pend Oreille	5.3	63.3	7.7	72.7	5.7	51.2	5.8	52.7	9	78.8
Pierce	181.3	31.6	162.0	26.4	192.7	30.6	198.4	31.5	227	34.2
San Juan	5.7	55.4	3.3	32.6	4.7	31.4	4.8	32.3	5	46.6
Skagit	33.7	41.1	37.7	41.6	52.0	53.5	53.6	55.1	45	44.2
Skamania	4.7	59.6	3.7	44.3	2.3	25.9	2.4	26.7	7	79.6
Snohomish	149.0	34.4	141.0	30.9	145.3	29.1	149.7	30.0	173	32.3
Spokane	115.0	31.7	128.0	33.1	126.3	30.9	130.1	31.8	136	32.5
Stevens	19.0	65.7	23.7	72.3	16.3	44.7	16.8	46.0	27	72.8
Thurston	53.3	33.6	58.7	33.6	63.0	33.7	64.9	34.7	70	35.6
Wahkiakum	1.0	*	2.3	66.8	1.0	*	1.0	*	1	*
Walla Walla	24.0	45.2	26.0	47.7	22.3	39.9	23.0	41.1	21	36.6
Whatcom	44.3	32.7	52.7	36.3	50.0	32.2	51.5	33.2	48	29.4
Whitman	10.0	28.1	13.0	40.5	11.7	36.7	12.0	37.8	12	29.0
Yakima	86.3	46.8	97.0	49.9	102.3	50.1	105.4	51.6	78	37.8

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are V01-X59, Y85, Y86.

Codes for International Classification of Diseases (Ninth Revision) are E800-E869, E880-E929.

Comparability Ratio is 1.03 and standard error is 0.0014.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S27. Deaths and Age-Adjusted Death Rates Due to Motor Vehicle Accidents by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996-1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>796.0</b>	<b>15.9</b>	<b>726.3</b>	<b>13.8</b>	<b>762.3</b>	<b>13.8</b>	<b>648.0</b>	<b>11.8</b>	<b>711</b>	<b>12.5</b>
Adams	2.3	17.7	4.7	34.6	3.7	24.3	3.1	20.6	5	27.8
Asotin	3.0	16.5	2.7	14.0	4.3	21.7	3.7	18.4	6	31.1
Benton	17.3	15.4	17.0	13.7	21.3	17.1	18.1	14.5	18	13.8
Chelan	13.3	26.6	11.7	20.0	12.3	20.8	10.5	17.7	7	11.4
Clallam	10.0	16.2	10.0	16.3	12.7	20.9	10.8	17.8	7	10.6
Clark	48.0	19.8	36.3	13.4	37.3	12.3	31.7	10.4	32	9.9
Columbia	1.3	*	0.7	*	1.7	40.1	1.4	34.1	1	*
Cowlitz	14.0	16.6	11.7	13.3	17.0	19.0	14.5	16.1	13	14.4
Douglas	6.7	24.6	5.3	19.6	8.3	28.4	7.1	24.1	3	*
Ferry	2.0	30.4	3.3	52.6	2.0	30.0	1.7	25.5	5	71.3
Franklin	9.3	24.8	10.0	25.2	9.7	22.9	8.2	19.5	11	28.1
Garfield	0.0	*	0.7	*	1.3	*	1.1	*	0	*
Grant	18.3	33.2	16.0	27.0	28.3	43.7	24.1	37.2	32	47.2
Grays Harbor	14.0	22.0	15.3	22.7	13.0	19.8	11.1	16.8	10	15.4
Island	8.0	11.6	6.0	8.9	8.3	12.0	7.1	10.2	8	11.5
Jefferson	5.7	26.2	4.0	17.1	6.7	27.9	5.7	23.7	3	*
King	174.7	11.5	157.7	10.2	153.3	9.5	130.3	8.1	137	8.5
Kitsap	34.3	17.0	23.7	11.3	21.0	9.7	17.9	8.3	31	14.2
Kittitas	4.0	14.1	3.0	10.0	8.0	24.0	6.8	20.4	4	*
Klickitat	5.7	36.2	3.3	19.4	5.0	27.8	4.3	23.7	5	26.9
Lewis	16.7	27.9	17.0	27.0	16.7	25.0	14.2	21.2	15	22.0
Lincoln	1.7	17.8	2.3	24.8	0.7	*	0.6	*	1	*
Mason	11.7	29.2	9.3	20.9	12.7	27.3	10.8	23.2	10	20.4
Okanogan	12.7	40.3	13.7	39.8	15.3	41.6	13.0	35.3	18	47.4
Pacific	4.3	20.8	6.7	35.9	4.0	18.7	3.4	15.9	4	*
Pend Oreille	3.0	36.1	4.0	37.9	3.7	31.8	3.1	27.1	5	43.4
Pierce	91.7	14.9	79.0	12.3	83.7	12.6	71.1	10.7	75	11.0
San Juan	2.3	24.8	1.0	*	1.3	*	1.1	*	1	*
Skagit	15.3	19.2	14.0	16.0	22.0	23.5	18.7	19.9	20	19.2
Skamania	2.3	27.7	2.3	25.7	0.7	*	0.6	*	1	*
Snohomish	72.7	15.7	53.7	11.2	57.7	11.0	49.0	9.4	64	11.8
Spokane	48.3	13.1	43.7	11.2	50.3	12.3	42.8	10.4	50	12.1
Stevens	10.7	37.2	13.3	40.5	6.3	17.0	5.4	14.5	13	35.5
Thurston	23.7	14.4	26.0	14.4	25.0	12.9	21.3	10.9	32	15.8
Wahkiakum	0.3	*	1.3	*	0.0	*	0.0	*	0	*
Walla Walla	10.0	19.6	11.7	22.0	9.0	16.5	7.7	14.0	10	16.6
Whatcom	22.0	15.5	22.3	14.7	18.3	11.3	15.6	9.6	17	10.1
Whitman	5.3	10.6	7.7	21.9	5.0	14.2	4.3	12.1	5	11.6
Yakima	49.3	26.6	54.3	28.0	54.7	27.0	46.5	22.9	32	15.6

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2, V19.4-V19.6,V20-V79,V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2.

Codes for International Classification of Diseases (Ninth Revision) are E810-E825.

Comparability Ratio is 0.85 and standard error is 0.0027.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S28. Deaths and Age-Adjusted Death Rates Due to Falls by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996- 1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>279.3</b>	<b>6.6</b>	<b>318.7</b>	<b>6.9</b>	<b>372.0</b>	<b>7.4</b>	<b>312.5</b>	<b>6.2</b>	<b>334</b>	<b>6.3</b>
Adams	1.3	*	0.7	*	0.7	*	0.6	*	0	*
Asotin	2.0	9.3	2.0	8.3	2.3	10.1	2.0	8.5	4	*
Benton	2.7	3.5	8.3	9.8	9.0	9.2	7.6	7.7	6	6.2
Chelan	6.0	10.2	4.3	6.6	6.0	8.5	5.0	7.1	9	11.1
Clallam	5.3	7.2	9.7	11.5	6.7	7.3	5.6	6.1	3	*
Clark	14.7	7.8	19.0	9.1	16.7	6.7	14.0	5.6	14	5.2
Columbia	0.3	*	0.0	*	0.3	*	0.3	*	0	*
Cowlitz	5.0	6.2	4.7	5.4	8.7	9.3	7.3	7.9	8	8.0
Douglas	2.3	9.8	1.3	*	2.3	8.2	2.0	6.9	1	*
Ferry	0.3	*	0.7	*	1.0	*	0.8	*	1	*
Franklin	1.7	7.3	1.7	5.0	1.7	5.5	1.4	4.6	0	*
Garfield	0.0	*	0.0	*	0.0	*	0.0	*	0	*
Grant	1.7	4.1	1.3	*	2.0	3.5	1.7	3.0	3	*
Grays Harbor	7.7	11.0	6.0	8.6	8.3	10.5	7.0	8.8	6	8.0
Island	3.0	6.2	2.3	3.8	3.7	5.4	3.1	4.5	2	*
Jefferson	1.3	*	0.0	*	2.3	8.0	2.0	6.7	1	*
King	82.0	6.4	83.0	6.1	98.3	6.8	82.6	5.7	97	6.4
Kitsap	9.3	6.4	12.0	7.2	15.3	8.4	12.9	7.1	12	6.5
Kittitas	3.3	13.7	3.0	10.7	4.7	15.1	3.9	12.7	1	*
Klickitat	0.3	*	1.0	*	1.7	8.5	1.4	7.1	1	*
Lewis	2.7	3.9	6.7	9.7	5.0	6.3	4.2	5.3	2	*
Lincoln	0.7	*	0.7	*	2.0	12.7	1.7	10.6	1	*
Mason	3.7	11.1	3.7	8.3	6.0	12.2	5.0	10.2	5	9.8
Okanogan	2.7	8.4	2.7	7.7	4.7	12.0	3.9	10.1	5	13.2
Pacific	1.0	*	2.7	10.2	3.7	11.3	3.1	9.5	0	*
Pend Oreille	0.7	*	1.7	16.5	0.7	*	0.6	*	1	*
Pierce	27.7	5.9	25.3	4.9	37.0	6.9	31.1	5.8	29	4.9
San Juan	0.7	*	1.3	*	0.3	*	0.3	*	1	*
Skagit	5.7	7.0	9.0	9.6	10.0	9.4	8.4	7.9	5	4.3
Skamania	0.3	*	0.7	*	0.3	*	0.3	*	1	*
Snohomish	22.7	6.6	28.3	7.8	25.7	6.5	21.6	5.5	35	7.7
Spokane	24.0	6.9	32.0	8.5	35.3	8.6	29.7	7.2	34	7.8
Stevens	3.3	11.9	4.3	14.3	3.7	10.7	3.1	9.0	6	16.8
Thurston	12.0	8.5	13.7	8.7	17.0	9.9	14.3	8.3	17	9.3
Wahkiakum	0.0	*	0.3	*	0.3	*	0.3	*	1	*
Walla Walla	4.3	7.9	5.7	9.1	5.7	9.1	4.8	7.6	3	*
Whatcom	8.0	6.6	10.0	7.5	9.7	6.7	8.1	5.6	8	5.0
Whitman	1.3	*	1.3	*	2.0	7.0	1.7	5.9	2	*
Yakima	7.7	4.5	7.7	4.1	11.3	5.6	9.5	4.7	9	4.2

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are W00-W19.

Codes for International Classification of Diseases (Ninth Revision) are E880-E888.

Comparability Ratio is 0.84 and standard error is 0.0049.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S29. Deaths and Age-Adjusted Death Rates Due to Drowning by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>123.7</b>	<b>2.4</b>	<b>105.0</b>	<b>2.0</b>	<b>108.7</b>	<b>2.0</b>	<b>115</b>	<b>2.0</b>
Adams	0.3	*	0.3	*	0.0	*	0	*
Asotin	0.3	*	0.3	*	0.7	*	1	*
Benton	2.7	2.6	2.7	1.9	1.0	*	0	*
Chelan	3.0	5.5	0.3	*	1.3	*	3	*
Clallam	3.7	7.0	1.3	*	3.7	6.5	1	*
Clark	4.0	1.7	7.3	2.6	7.0	2.2	6	1.8
Columbia	0.0	*	0.0	*	0.0	*	0	*
Cowlitz	3.0	3.6	1.3	*	1.3	*	3	*
Douglas	0.0	*	0.3	*	0.0	*	1	*
Ferry	0.3	*	0.7	*	0.3	*	1	*
Franklin	1.3	*	0.7	*	1.0	*	1	*
Garfield	0.0	*	0.0	*	0.0	*	0	*
Grant	1.0	*	1.7	2.4	1.7	2.5	8	10.7
Grays Harbor	5.7	8.8	2.7	4.2	2.0	3.0	1	*
Island	1.7	2.6	1.7	2.2	2.7	3.5	2	*
Jefferson	0.3	*	0.0	*	0.3	*	0	*
King	29.0	1.9	25.3	1.6	25.7	1.6	28	1.6
Kitsap	3.0	1.5	4.7	2.4	3.3	1.5	3	*
Kittitas	0.3	*	0.0	*	0.3	*	0	*
Klickitat	0.7	*	1.0	*	1.0	*	2	*
Lewis	2.3	3.7	2.0	3.0	1.0	*	2	*
Lincoln	0.0	*	0.3	*	0.0	*	0	*
Mason	0.7	*	2.0	4.7	0.7	*	2	*
Okanogan	1.7	5.1	1.7	4.9	1.7	4.6	1	*
Pacific	2.3	13.4	1.3	*	2.3	11.2	2	*
Pend Oreille	0.0	*	0.0	*	0.3	*	0	*
Pierce	13.0	2.1	9.3	1.4	13.7	2.0	17	2.5
San Juan	0.7	*	0.0	*	0.7	*	0	*
Skagit	2.3	2.4	1.3	*	1.7	1.8	2	*
Skamania	0.0	*	0.3	*	0.3	*	0	*
Snohomish	13.0	2.7	9.7	1.9	12.0	2.2	7	1.4
Spokane	6.0	1.5	8.3	2.1	7.0	1.7	5	1.2
Stevens	0.0	*	1.0	*	0.3	*	2	*
Thurston	4.0	2.4	3.0	1.6	3.3	1.7	3	*
Wahkiakum	0.0	*	0.3	*	0.7	*	0	*
Walla Walla	1.0	*	0.3	*	0.7	*	2	*
Whatcom	5.0	3.7	3.7	2.4	2.0	1.3	1	*
Whitman	0.7	*	0.3	*	0.7	*	2	*
Yakima	10.7	5.7	7.7	3.6	6.3	3.0	6	2.9

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are V90,V92,W65-W74.

Codes for International Classification of Diseases (Ninth Revision) are E830,E832,E910.

Comparability Ratio is not available.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S30. Deaths and Age-Adjusted Death Rates Due to Fires by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996- 1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>54.3</b>	<b>1.1</b>	<b>60.3</b>	<b>1.1</b>	<b>48.0</b>	<b>0.9</b>	<b>46.6</b>	<b>0.9</b>	<b>51</b>	<b>0.9</b>
Adams	0.7	*	0.0	*	0.3	*	0.3	*	3	*
Asotin	0.0	*	0.7	*	0.0	*	0.0	*	1	*
Benton	1.0	*	2.3	1.8	0.3	*	0.3	*	0	*
Chelan	0.7	*	0.3	*	1.7	2.7	1.6	2.6	0	*
Clallam	1.3	*	0.3	*	1.0	*	1.0	*	0	*
Clark	2.0	0.8	1.3	*	1.0	*	1.0	*	3	*
Columbia	0.0	*	0.0	*	0.0	*	0.0	*	0	*
Cowlitz	1.7	1.9	1.0	*	1.3	*	1.3	*	0	*
Douglas	0.7	*	0.3	*	0.0	*	0.0	*	0	*
Ferry	1.7	22.6	0.3	*	0.0	*	0.0	*	0	*
Franklin	0.0	*	0.3	*	0.0	*	0.0	*	0	*
Garfield	0.0	*	0.0	*	0.0	*	0.0	*	0	*
Grant	0.3	*	0.3	*	2.7	3.8	2.6	3.7	0	*
Grays Harbor	1.3	*	3.0	4.0	1.3	*	1.3	*	1	*
Island	0.7	*	1.0	*	0.3	*	0.3	*	0	*
Jefferson	0.0	*	0.0	*	0.3	*	0.3	*	1	*
King	14.3	1.0	11.3	0.7	13.3	0.9	12.9	0.8	10	0.6
Kitsap	1.3	*	2.7	1.2	3.0	1.4	2.9	1.4	5	2.2
Kittitas	0.0	*	0.3	*	0.7	*	0.6	*	0	*
Klickitat	0.0	*	0.7	*	0.7	*	0.6	*	0	*
Lewis	1.0	*	2.0	2.7	0.0	*	0.0	*	0	*
Lincoln	0.3	*	0.0	*	0.0	*	0.0	*	0	*
Mason	0.3	*	0.3	*	1.3	*	1.3	*	5	10.7
Okanogan	0.7	*	1.3	*	0.7	*	0.6	*	1	*
Pacific	0.0	*	0.0	*	0.3	*	0.3	*	0	*
Pend Oreille	0.0	*	0.7	*	0.3	*	0.3	*	0	*
Pierce	7.3	1.3	4.3	0.6	5.7	0.9	5.5	0.9	4	*
San Juan	0.0	*	0.0	*	0.0	*	0.0	*	1	*
Skagit	1.7	2.0	2.3	2.7	1.0	*	1.0	*	0	*
Skamania	0.7	*	0.0	*	0.0	*	0.0	*	1	*
Snohomish	3.0	0.6	4.3	1.0	2.3	0.5	2.3	0.5	3	*
Spokane	4.0	1.1	8.7	2.2	4.3	1.1	4.2	1.1	2	*
Stevens	0.0	*	1.0	*	0.7	*	0.6	*	0	*
Thurston	2.0	1.1	1.3	*	0.7	*	0.6	*	3	*
Wahkiakum	0.0	*	0.3	*	0.0	*	0.0	*	0	*
Walla Walla	0.3	*	2.7	5.0	0.0	*	0.0	*	1	*
Whatcom	1.7	1.3	2.7	1.9	0.7	*	0.6	*	1	*
Whitman	0.0	*	0.3	*	0.0	*	0.0	*	1	*
Yakima	3.7	1.9	1.7	0.9	2.0	0.8	1.9	0.8	4	*

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are X00-X09.

Codes for International Classification of Diseases (Ninth Revision) are E890-E899.

Comparability Ratio is 0.97 and standard error is 0.0089.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.



Table S31. Deaths and Age-Adjusted Death Rates Due to Intentional Self-Harm or Suicide by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996- 1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>688.7</b>	<b>14.1</b>	<b>749.7</b>	<b>14.3</b>	<b>737.7</b>	<b>13.3</b>	<b>737.7</b>	<b>13.3</b>	<b>819</b>	<b>14.4</b>
Adams	2.0	14.7	0.3	*	1.0	*	1.0	*	2	*
Asotin	2.7	16.1	3.7	20.1	3.3	17.0	3.3	17.0	7	35.1
Benton	13.3	12.8	16.7	13.8	15.7	12.0	15.7	12.0	19	14.3
Chelan	7.7	14.8	8.7	15.1	11.7	19.5	11.7	19.5	8	12.7
Clallam	12.0	17.1	20.0	32.2	10.3	15.2	10.3	15.2	12	16.4
Clark	29.3	12.7	34.7	13.0	42.0	13.8	42.0	13.8	46	14.2
Columbia	0.3	*	0.0	*	1.3	*	1.3	*	1	*
Cowlitz	12.0	15.0	11.0	12.9	13.7	15.2	13.7	15.2	17	18.9
Douglas	5.3	20.2	2.7	10.5	6.0	19.9	6.0	19.9	4	*
Ferry	2.7	39.3	2.3	34.7	1.7	23.0	1.7	23.0	3	*
Franklin	3.0	7.9	5.3	15.2	3.0	7.7	3.0	7.7	3	*
Garfield	0.7	*	0.7	*	0.0	*	0.0	*	3	*
Grant	6.0	11.3	6.7	11.4	10.3	16.2	10.3	16.2	7	10.6
Grays Harbor	17.3	26.2	11.7	17.9	13.3	19.7	13.3	19.7	18	27.1
Island	5.3	8.6	12.0	17.5	9.3	14.2	9.3	14.2	4	*
Jefferson	2.3	11.7	3.3	11.2	3.7	11.8	3.7	11.8	2	*
King	206.0	13.3	206.7	12.9	191.7	11.5	191.7	11.5	215	12.7
Kitsap	30.0	15.5	31.3	15.9	30.3	13.9	30.3	13.9	45	20.4
Kittitas	2.7	10.9	5.3	18.7	2.7	7.4	2.7	7.4	2	*
Klickitat	3.3	20.1	5.0	28.8	2.0	10.3	2.0	10.3	6	31.1
Lewis	8.0	13.6	10.3	16.2	9.7	15.0	9.7	15.0	10	14.8
Lincoln	2.3	26.7	2.0	24.7	1.3	*	1.3	*	2	*
Mason	8.7	21.3	12.3	28.1	10.7	22.2	10.7	22.2	9	18.4
Okanogan	3.3	9.7	6.7	19.1	6.3	17.1	6.3	17.1	9	25.3
Pacific	3.7	15.3	3.0	14.1	4.3	21.1	4.3	21.1	7	31.1
Pend Oreille	0.7	*	3.7	36.9	2.0	18.4	2.0	18.4	2	*
Pierce	94.7	16.1	100.3	16.1	96.3	14.7	96.3	14.7	109	16.1
San Juan	1.3	*	1.7	18.1	4.0	27.0	4.0	27.0	1	*
Skagit	11.7	14.4	14.3	15.8	17.3	18.2	17.3	18.2	13	12.6
Skamania	1.0	*	2.0	23.6	1.0	*	1.0	*	0	*
Snohomish	62.7	14.1	67.7	13.8	62.0	11.6	62.0	11.6	75	13.1
Spokane	48.3	13.1	52.0	13.2	55.7	13.7	55.7	13.7	59	14.3
Stevens	5.0	16.8	4.7	14.2	7.0	19.3	7.0	19.3	5	12.9
Thurston	24.0	15.0	27.7	15.2	31.3	16.3	31.3	16.3	34	16.7
Wahkiakum	0.3	*	1.0	*	1.0	*	1.0	*	1	*
Walla Walla	6.0	11.3	7.3	13.8	5.0	9.5	5.0	9.5	10	17.5
Whatcom	17.3	13.3	14.7	10.1	19.3	12.6	19.3	12.6	17	10.7
Whitman	2.3	6.0	4.7	14.0	3.0	8.4	3.0	8.4	5	15.6
Yakima	23.3	13.0	25.7	13.6	27.3	13.9	27.3	13.9	27	13.5

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are X60-X84,Y87.0.

Codes for International Classification of Diseases (Ninth Revision) are E950-E959.

Comparability Ratio is 1.00 and standard error is 0.0005.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S32. Deaths and Age-Adjusted Death Rates Due to Intentional Assault or Homicide by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996- 1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>260.7</b>	<b>5.0</b>	<b>296.0</b>	<b>5.5</b>	<b>249.3</b>	<b>4.5</b>	<b>249.3</b>	<b>4.5</b>	<b>190</b>	<b>3.3</b>
Adams	1.7	12.9	0.0	*	0.3	*	0.3	*	1	*
Asotin	1.3	*	1.3	*	0.7	*	0.7	*	1	*
Benton	3.0	2.5	5.0	3.7	3.3	2.4	3.3	2.4	2	*
Chelan	2.7	5.0	2.3	4.2	2.7	4.2	2.7	4.2	1	*
Clallam	2.3	5.0	4.0	7.6	2.7	4.5	2.7	4.5	0	*
Clark	7.0	2.8	11.0	3.9	10.0	3.2	10.0	3.2	8	2.6
Columbia	0.0	*	0.0	*	0.0	*	0.0	*	0	*
Cowlitz	4.3	5.0	4.3	5.0	3.3	3.6	3.3	3.6	4	*
Douglas	1.7	7.1	1.3	*	1.3	*	1.3	*	0	*
Ferry	0.7	*	0.0	*	0.3	*	0.3	*	0	*
Franklin	3.7	9.4	5.7	13.7	3.7	8.7	3.7	8.7	1	*
Garfield	0.0	*	0.0	*	0.0	*	0.0	*	0	*
Grant	4.7	8.8	4.3	7.4	5.0	7.2	5.0	7.2	2	*
Grays Harbor	5.0	8.0	5.3	8.4	4.3	6.8	4.3	6.8	0	*
Island	1.0	*	2.0	2.7	1.3	*	1.3	*	2	*
Jefferson	1.0	*	0.3	*	0.3	*	0.3	*	0	*
King	88.7	5.4	97.0	6.0	74.3	4.5	74.3	4.5	80	4.7
Kitsap	10.3	5.2	8.3	3.6	5.7	2.6	5.7	2.6	5	2.2
Kittitas	0.7	*	0.0	*	0.3	*	0.3	*	1	*
Klickitat	0.7	*	0.3	*	0.3	*	0.3	*	0	*
Lewis	4.0	6.6	2.3	3.7	3.0	4.6	3.0	4.6	1	*
Lincoln	0.3	*	0.3	*	0.0	*	0.0	*	0	*
Mason	1.0	*	2.7	6.4	3.3	7.1	3.3	7.1	1	*
Okanogan	2.0	6.7	2.3	6.9	3.7	10.3	3.7	10.3	2	*
Pacific	0.7	*	0.7	*	1.3	*	1.3	*	0	*
Pend Oreille	1.3	*	1.3	*	0.0	*	0.0	*	1	*
Pierce	56.7	8.8	57.7	8.7	47.3	6.9	47.3	6.9	24	3.3
San Juan	0.3	*	0.0	*	0.3	*	0.3	*	0	*
Skagit	2.3	2.9	5.0	5.8	1.7	1.7	1.7	1.7	2	*
Skamania	1.0	*	0.0	*	0.3	*	0.3	*	0	*
Snohomish	12.3	2.5	21.7	4.2	18.7	3.4	18.7	3.4	13	2.3
Spokane	19.0	5.2	18.7	4.6	19.7	4.8	19.7	4.8	15	3.6
Stevens	2.0	6.7	2.3	6.9	0.3	*	0.3	*	0	*
Thurston	4.7	2.9	4.3	2.4	6.3	3.1	6.3	3.1	7	3.4
Wahkiakum	0.0	*	0.0	*	0.3	*	0.3	*	0	*
Walla Walla	0.3	*	1.7	3.1	1.7	3.1	1.7	3.1	0	*
Whatcom	2.3	1.7	3.3	2.3	3.7	2.1	3.7	2.1	1	*
Whitman	0.3	*	0.3	*	0.3	*	0.3	*	0	*
Yakima	9.7	5.1	18.7	9.4	17.3	8.7	17.3	8.7	15	7.3

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are X85-Y09,Y87.1.

Codes for International Classification of Diseases (Ninth Revision) are E960-E969.

Comparability Ratio is 1.00 and standard error is 0.0006.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S33. Deaths and Age-Adjusted Death Rates Due to Undetermined Intent by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>100.7</b>	<b>2.0</b>	<b>103.3</b>	<b>1.9</b>	<b>101.3</b>	<b>1.8</b>	<b>100</b>	<b>1.7</b>
Adams	0.0	*	0.0	*	0.3	*	0	*
Asotin	0.0	*	0.0	*	0.0	*	0	*
Benton	0.3	*	2.7	2.2	1.3	*	2	*
Chelan	0.3	*	0.0	*	0.7	*	1	*
Clallam	1.7	2.8	1.3	*	1.7	2.3	0	*
Clark	5.7	2.3	3.7	1.3	5.3	1.5	6	1.7
Columbia	0.3	*	0.0	*	0.0	*	0	*
Cowlitz	1.0	*	1.3	*	0.3	*	7	7.5
Douglas	0.3	*	0.0	*	0.0	*	0	*
Ferry	0.0	*	0.0	*	0.3	*	0	*
Franklin	1.3	*	2.0	5.1	0.7	*	0	*
Garfield	0.0	*	0.0	*	0.0	*	0	*
Grant	0.7	*	1.7	2.8	1.0	*	0	*
Grays Harbor	1.0	*	1.3	*	1.3	*	1	*
Island	1.0	*	1.0	*	0.0	*	1	*
Jefferson	2.0	9.1	0.7	*	0.7	*	0	*
King	43.3	2.7	39.3	2.3	33.7	1.9	27	1.6
Kitsap	3.7	1.7	0.7	*	5.3	2.4	9	3.8
Kittitas	0.0	*	0.0	*	0.0	*	1	*
Klickitat	0.0	*	0.3	*	0.0	*	2	*
Lewis	0.0	*	0.3	*	0.7	*	0	*
Lincoln	0.0	*	0.3	*	0.0	*	0	*
Mason	0.3	*	1.0	*	1.7	3.7	2	*
Okanogan	0.3	*	0.3	*	0.3	*	2	*
Pacific	0.0	*	1.3	*	1.7	7.2	1	*
Pend Oreille	0.7	*	0.3	*	0.0	*	0	*
Pierce	19.7	3.4	24.0	3.9	28.3	4.3	11	1.6
San Juan	0.0	*	0.0	*	0.0	*	1	*
Skagit	0.3	*	1.7	2.0	2.0	1.9	1	*
Skamania	0.0	*	0.3	*	0.3	*	1	*
Snohomish	4.7	1.0	5.7	1.0	7.0	1.4	7	1.2
Spokane	4.7	1.3	5.0	1.2	1.3	*	13	3.2
Stevens	1.3	*	0.3	*	0.7	*	0	*
Thurston	2.3	1.3	1.3	*	1.3	*	1	*
Wahkiakum	0.0	*	0.3	*	0.0	*	0	*
Walla Walla	0.7	*	0.7	*	0.3	*	0	*
Whatcom	1.7	1.4	2.3	1.6	1.0	*	2	*
Whitman	0.0	*	0.0	*	0.0	*	0	*
Yakima	1.3	*	2.0	1.0	2.0	1.0	1	*

<sup>1</sup>Rate per 100,000 age-adjusted to U.S. 2000 population.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are Y10-Y34,Y87.2,Y89.9.

Codes for International Classification of Diseases (Ninth Revision) are E980-E989.

Comparability Ratio is not available.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S34. Infant (Age &lt; 1 Year) Mortality to Residents by Cause, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	<u>1990-1992</u>		<u>1993-1995</u>		<u>1996-1998</u>		<u>Comparability</u> <u>Modified 1996-</u>			<u>1999 (ICD-10)</u>	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Comp. Ratio	<u>1998</u>		No.	Rate <sup>1</sup>
								Mean No.	Rate <sup>1</sup>		
<b>Total All Causes<sup>2</sup></b>	<b>(588.3)</b>	<b>(7.4)</b>	<b>(474.0)</b>	<b>(6.1)</b>	<b>(453.0)</b>	<b>(5.8)</b>	n/a	n/a	n/a	<b>(401)</b>	<b>(5.0)</b>
Infectious Dis.(001-033,034.1-134,136-139,771.3)(A00-B99)	10.3	0.1	9.7	0.1	8.3	0.1	0.73	6.1	0.1	7	0.1
Diseases of the Nervous System (320-359,435)(G00-G98)	12.3	0.2	7.0	0.1	10.0	0.1	1.07	10.7	0.1	5	0.1
Dis. of Circulatory System (390-434,436-459)(I00-I99)	13.0	0.2	7.3	0.1	11.3	0.1	0.71	8.0	0.1	12	0.2
Dis.of Respiratory System (034.0,460-519)(J00-J98)	13.7	0.2	13.7	0.2	11.0	0.1	0.81	8.9	0.1	8	0.1
<b>Perinatal Conditions (760-771.2,771.4-779)(P00-P96)</b>	<b>(191.0)</b>	<b>(2.4)</b>	<b>(161.3)</b>	<b>(2.1)</b>	<b>(168.7)</b>	<b>(2.1)</b>	1.06	(178.8)	(2.3)	<b>(167)</b>	<b>(2.1)</b>
Newborn Affected by Maternal Factors (760-763)(P00-P04)	(48.7)	(0.6)	(30.0)	(0.4)	(38.3)	(0.5)	1.04	(39.8)	(0.5)	(35)	(0.4)
Incompetent Cervix (761.0)(P01.0)	3.7	0.0	3.3	0.0	6.3	0.1	1.02	6.5	0.1	7	0.1
Premature Rupture of Membranes (761.1)(P01.1)	13.0	0.2	7.0	0.1	9.0	0.1	1.02	9.2	0.1	4	*
Other Maternal Pregnancy Complications (761.2-761.9)(P01.2-P01.9)	7.0	0.1	3.3	0.0	2.0	0.0	**	**	**	4	*
Complications Involving Placenta (762.0-762.3)(P02.0-P02.3)	12.3	0.2	9.3	0.1	9.3	0.1	1.07	10.0	0.1	9	0.1
Complications of Cord & Membranes (762.4-762.9)(P02.4-P02.9)	9.0	0.1	4.3	0.1	6.3	0.1	**	**	**	2	*
Other (Residual)	3.7	0.0	2.7	0.0	5.3	0.1	**	**	**	9	0.1
Short Gestation & Low Birth Weight (765)(P07)	33.0	0.4	39.0	0.5	39.0	0.5	1.11	43.3	0.6	48	0.6
Intrauterine Hypoxia & Birth Asphyxia (768)(P20-P21)	7.0	0.1	13.3	0.2	12.3	0.2	1.45	17.9	0.2	11	0.1
Respiratory Distress of Newborn (769)(P22)	19.7	0.2	18.0	0.2	17.0	0.2	1.03	17.5	0.2	7	0.1
Other Respiratory Conditions (770)(P23-P28)	32.3	0.4	25.7	0.3	21.7	0.3	0.85	18.4	0.2	20	0.3
Infections Specific to Perinatal Period(771.0-771.2,771.4-771.8)(P35-P39)	17.7	0.2	8.7	0.1	9.0	0.1	1.02	9.2	0.1	11	0.1
Neonatal Hemorrhage (772)(P50-P52,P54)	3.7	0.0	3.0	0.0	3.7	0.0	1.44	5.3	0.1	13	0.2
Necrotizing Enterocolitis of Newborn (777.5)(P77)	4.0	0.1	4.3	0.1	6.0	0.1	1.23	7.4	0.1	2	*
Hydrops Fetalis Not Due to Hemolytic Disease (778.0)(P83.2)	5.3	0.1	5.0	0.1	5.0	0.1	1.00	5.0	0.1	4	*
Other (Residual)	19.7	0.2	14.3	0.2	16.7	0.2	**	**	**	16	0.2
<b>Congenital Malformations (740-759)(Q00-Q99)</b>	<b>(143.3)</b>	<b>(1.8)</b>	<b>(121.7)</b>	<b>(1.6)</b>	<b>(127.0)</b>	<b>(1.6)</b>	0.91	(115.6)	(1.5)	<b>(106)</b>	<b>(1.3)</b>
Anencephaly and Similar Malformations (740)(Q00)	7.0	0.1	6.0	0.1	3.3	0.0	1.00	3.3	0.0	6	0.1
Malformations of Heart (745-746)(Q20-Q24)	48.0	0.6	43.7	0.6	43.0	0.5	1.00	43.0	0.5	28	0.4
Other Malformations of Circulatory System (747)(Q25-Q28)	9.3	0.1	5.0	0.1	6.7	0.1	0.62	4.1	0.1	5	0.1
Malformations of Respiratory System (748)(Q30-Q34)	19.7	0.2	15.3	0.2	20.0	0.3	0.63	12.6	0.2	17	0.2
Malformations of Genitourinary System (749-751)(Q50-Q64)	1.7	0.0	1.3	*	1.0	*	0.94	0.9	*	6	0.1
Malform. of Musculoskeletal Sys. & Skin (754-757)(Q65-Q85)	11.0	0.1	8.0	0.1	8.7	0.1	0.86	7.5	0.1	3	*

continued Table S34. Infant (Age < 1 Year) Mortality to Residents by Cause, 1990-1999

Cause Followed by ICD-9 and ICD-10 Code	<u>1990-1992</u>		<u>1993-1995</u>		<u>1996-1998</u>		<u>Comparability Modified 1996-1998</u>			<u>1999 (ICD-10)</u>	
	Mean	Rate <sup>1</sup>	Mean	Rate <sup>1</sup>	Mean	Rate <sup>1</sup>	Comp. Ratio	Mean	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
	No.		No.		No.			No.		No.	
<i>continued</i> <b>Congenital Malformations (740-759)(Q00-Q99)</b>											
Down's Syndrome (758.0)(Q90)	3.7	0.0	1.7	0.0	3.7	0.0	0.98	3.6	0.0	4	*
Edward's Syndrome (758.2)(Q91.0-Q91.3)	9.0	0.1	7.3	0.1	9.3	0.1	1.00	9.3	0.1	10	0.1
Patau's Syndrome (758.1)(Q91.4-Q91.7)	4.0	0.1	5.7	0.1	5.0	0.1	0.98	4.9	0.1	8	0.1
Other (743-744,759)(Q01-Q18,Q35-Q45,Q86-Q89)	10.0	0.1	9.0	0.1	9.7	0.1	**	**	**	15	0.2
Other Chromosomal Abnormalities (758.3-758.9)(Q92-Q99)	3.0	0.0	2.3	0.0	2.0	0.0	1.08	2.2	0.0	4	*
<b>Sudden Infant Death Syndrome (798.0)(R95)</b>	164.0	2.1	118.7	1.5	85.0	1.1	1.04	88.4	1.1	67	0.8
<b>Other (Residual)</b>	18.7	0.2	14.3	0.2	18.3	0.2	**	**	**	16	0.2
<b>External Causes of Mortality (E800-E999)(V01-Y89)</b>	(22.0)	(0.3)	(20.3)	(0.3)	(13.3)	(0.2)	0.99	(13.2)	(0.2)	(13)	(0.2)
Accidents (E800-E869,E880-E929) (V01-X59, Y85-Y86)	12.3	0.2	14.3	0.2	9.0	0.1	1.02	9.2	0.1	11	0.1
Suffocation & Strangulation (E912-E913)(W75-W77,W81-W84)	6.0	0.1	8.3	0.1	4.3	0.1	**	**	**	6	0.1
Other (Residual)	6.3	0.1	6.0	0.1	4.7	0.1	**	**	**	5	0.1
Assault (homicide) (E960-E969)(X85-Y09, Y87.1)	7.0	0.1	4.7	0.1	3.3	0.0	0.95	3.2	0.0	2	*
Other (Residual)	2.7	0.0	1.3	*	1.0	*	**	**	**	0	*

<sup>1</sup>Rate per 1,000 live births.

<sup>2</sup>Group totals are shown in parentheses.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

\*\* Comparability ratios not available.

Notes: Source for causes of death is the International Classification of Diseases. Ninth revision (ICD-9) used 1990-1998 and tenth revision (ICD-10) used 1999. Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S35. Infant (Age < 1 Year) Mortality Due to All Causes by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		1999	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>588.3</b>	<b>737.5</b>	<b>474.0</b>	<b>609.3</b>	<b>453.0</b>	<b>576.7</b>	<b>401</b>	<b>503.9</b>
Adams	2.7	909.1	1.0	*	2.0	654.3	4	*
Asotin	2.3	861.0	2.0	793.7	2.7	993.8	3	*
Benton	15.3	793.5	13.7	693.6	13.0	641.3	10	471.9
Chelan	6.3	648.9	2.7	275.9	4.3	433.8	5	518.7
Clallam	6.7	925.9	5.7	873.1	4.7	709.6	3	*
Clark	26.0	642.2	23.0	529.6	27.0	546.7	21	405.0
Columbia	0.0	*	0.7	*	0.0	*	0	*
Cowlitz	13.0	989.6	10.0	818.6	9.0	746.5	7	544.3
Douglas	3.3	789.3	2.0	445.8	2.0	448.1	1	*
Ferry	3.3	3717.5	1.0	*	1.3	*	1	*
Franklin	10.3	1089.2	6.7	677.3	5.0	489.2	8	724.6
Garfield	0.0	*	0.0	*	0.0	*	0	*
Grant	9.0	840.6	8.3	693.7	7.3	548.2	4	*
Grays Harbor	5.0	520.3	7.7	895.3	5.3	610.5	4	*
Island	10.0	943.4	7.7	769.2	5.7	589.5	2	*
Jefferson	2.3	1004.3	2.7	1201.2	1.7	806.5	0	*
King	154.3	668.2	127.0	575.7	114.0	522.7	112	508.9
Kitsap	26.3	754.9	15.7	483.0	15.7	493.4	15	518.5
Kittitas	2.3	724.6	2.3	758.4	3.3	988.1	1	*
Klickitat	3.3	1406.5	2.0	865.8	1.0	*	0	*
Lewis	9.0	1036.9	4.3	503.5	5.7	639.1	7	741.5
Lincoln	0.0	*	0.0	*	1.7	1474.9	0	*
Mason	4.7	930.2	2.7	505.7	5.0	906.3	6	1147.2
Okanogan	4.0	716.4	5.0	877.7	3.3	622.3	2	*
Pacific	1.7	761.0	2.0	890.2	0.7	*	1	*
Pend Oreille	1.3	*	1.7	1162.8	1.0	*	0	*
Pierce	89.7	860.0	67.7	690.7	66.7	686.6	54	543.3
San Juan	1.0	*	0.0	*	0.0	*	0	*
Skagit	8.0	625.5	4.3	339.7	9.3	700.7	7	515.1
Skamania	0.3	*	1.0	*	0.3	*	1	*
Snohomish	43.3	527.6	41.0	522.9	46.3	570.1	44	517.9
Spokane	40.3	710.5	41.7	750.2	31.3	564.5	25	454.8
Stevens	4.3	1052.6	3.7	839.7	3.7	827.7	2	*
Thurston	15.3	630.9	11.7	475.8	11.7	475.0	9	363.2
Wahkiakum	0.0	*	0.0	*	0.3	*	0	*
Walla Walla	6.0	845.9	3.7	509.5	6.7	927.6	2	*
Whatcom	11.7	628.7	10.0	521.2	5.7	287.6	8	401.0
Whitman	3.0	739.5	2.0	464.0	2.0	492.6	2	*
Yakima	42.7	1017.2	30.0	699.2	26.7	631.2	30	708.0

<sup>1</sup>Rate per 100,000 live births.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

Note: Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S36. Infant (Age < 1 Year) Mortality Due to Conditions Originating in the Perinatal Period by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996- 1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>191.0</b>	<b>239.4</b>	<b>161.3</b>	<b>207.4</b>	<b>168.7</b>	<b>214.7</b>	<b>178.8</b>	<b>227.6</b>	<b>167</b>	<b>209.9</b>
Adams	1.3	*	0.3	*	0.3	*	0.4	*	0	*
Asotin	0.7	*	0.7	*	1.7	621.1	1.8	658.4	0	*
Benton	4.3	224.3	4.0	203.0	2.3	115.1	2.5	122.0	5	236.0
Chelan	1.3	*	0.7	*	0.7	*	0.7	*	5	518.7
Clallam	1.0	*	0.3	*	1.7	253.4	1.8	268.6	2	*
Clark	8.0	197.6	7.3	168.9	11.3	229.5	12.0	243.3	8	154.3
Columbia	0.0	*	0.0	*	0.0	*	0.0	*	0	*
Cowlitz	3.3	253.7	3.0	245.6	2.0	165.9	2.1	175.8	2	*
Douglas	1.7	394.6	1.0	*	0.3	*	0.4	*	1	*
Ferry	1.3	*	0.3	*	0.7	*	0.7	*	0	*
Franklin	3.7	386.5	1.3	*	1.3	*	1.4	*	1	*
Garfield	0.0	*	0.0	*	0.0	*	0.0	*	0	*
Grant	2.3	217.9	2.7	222.0	2.7	199.4	2.8	211.3	2	*
Grays Harbor	1.3	*	1.7	194.6	0.3	*	0.4	*	2	*
Island	2.3	220.1	2.7	267.6	1.7	173.4	1.8	183.8	0	*
Jefferson	1.0	*	0.7	*	0.3	*	0.4	*	0	*
King	60.0	259.8	51.0	231.2	49.7	227.7	52.6	241.4	67	304.4
Kitsap	8.0	229.3	5.0	154.1	4.3	136.5	4.6	144.7	5	172.8
Kittitas	1.3	*	0.3	*	1.0	*	1.1	*	0	*
Klickitat	0.7	*	0.7	*	0.3	*	0.4	*	0	*
Lewis	3.3	384.0	0.3	*	2.0	225.6	2.1	239.1	0	*
Lincoln	0.0	*	0.0	*	1.0	*	1.1	*	0	*
Mason	1.3	*	1.0	*	2.0	362.5	2.1	384.3	2	*
Okanogan	0.7	*	2.0	351.1	0.3	*	0.4	*	1	*
Pacific	0.7	*	0.0	*	0.3	*	0.4	*	1	*
Pend Oreille	0.0	*	0.3	*	0.0	*	0.0	*	0	*
Pierce	25.7	246.2	24.3	248.4	24.0	247.2	25.4	262.0	17	171.0
San Juan	0.3	*	0.0	*	0.0	*	0.0	*	0	*
Skagit	1.3	*	1.3	*	3.3	250.3	3.5	265.3	3	*
Skamania	0.0	*	0.0	*	0.0	*	0.0	*	1	*
Snohomish	13.3	162.4	15.7	199.8	21.7	266.6	23.0	282.6	18	211.9
Spokane	15.0	264.2	12.3	222.0	10.3	186.2	11.0	197.3	7	127.3
Stevens	1.3	*	1.7	381.7	1.7	376.2	1.8	398.8	1	*
Thurston	4.7	192.0	4.3	176.7	3.7	149.3	3.9	158.2	3	*
Wahkiakum	0.0	*	0.0	*	0.0	*	0.0	*	0	*
Walla Walla	2.7	375.9	1.3	*	2.7	371.1	2.8	393.3	2	*
Whatcom	3.0	161.7	2.7	139.0	2.3	118.4	2.5	125.5	4	*
Whitman	0.7	*	0.0	*	1.0	*	1.1	*	0	*
Yakima	13.3	317.9	10.3	240.8	9.7	228.8	10.2	242.5	7	165.2

<sup>1</sup>Rate per 100,000 live births.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are P00-P96.

Codes for International Classification of Diseases (Ninth Revision) are 760-771.2,771.4-779.

Comparability Ratio is 1.06 and standard error is 0.0032.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S37. Infant (Age < 1 Year) Mortality Due to Congenital Malformations, Deformations, and Chromosomal Abnormalities by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996- 1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>143.3</b>	<b>179.7</b>	<b>121.7</b>	<b>156.4</b>	<b>127.0</b>	<b>161.7</b>	<b>115.6</b>	<b>147.1</b>	<b>106</b>	<b>133.2</b>
Adams	0.3	*	0.7	*	1.0	*	0.9	*	3	*
Asotin	0.3	*	0.7	*	0.7	*	0.6	*	0	*
Benton	4.7	241.5	4.0	203.0	5.0	246.7	4.6	224.5	3	*
Chelan	2.3	239.1	1.0	*	1.3	*	1.2	*	0	*
Clallam	2.0	277.8	1.7	256.8	0.3	*	0.3	*	0	*
Clark	7.7	189.4	6.7	153.5	6.3	128.2	5.8	116.7	7	135.0
Columbia	0.0	*	0.3	*	0.0	*	0.0	*	0	*
Cowlitz	2.0	152.2	2.7	218.3	3.7	304.1	3.3	276.7	2	*
Douglas	0.3	*	0.3	*	0.7	*	0.6	*	0	*
Ferry	1.3	*	0.0	*	0.3	*	0.3	*	1	*
Franklin	3.7	386.5	2.0	203.2	1.7	163.1	1.5	148.4	5	452.9
Garfield	0.0	*	0.0	*	0.0	*	0.0	*	0	*
Grant	2.3	217.9	4.0	333.0	1.7	124.6	1.5	113.4	1	*
Grays Harbor	1.3	*	1.0	*	2.3	267.1	2.1	243.0	1	*
Island	2.7	251.6	2.0	200.7	1.3	*	1.2	*	2	*
Jefferson	0.7	*	0.3	*	0.3	*	0.3	*	0	*
King	32.3	140.0	30.7	139.0	30.3	139.1	27.6	126.6	21	95.4
Kitsap	7.7	219.8	4.0	123.3	7.3	231.0	6.7	210.2	3	*
Kittitas	0.3	*	1.3	*	1.7	494.1	1.5	449.6	1	*
Klickitat	0.7	*	0.7	*	0.0	*	0.0	*	0	*
Lewis	2.3	268.8	1.7	193.6	0.7	*	0.6	*	2	*
Lincoln	0.0	*	0.0	*	0.3	*	0.3	*	0	*
Mason	0.7	*	0.3	*	0.7	*	0.6	*	2	*
Okanogan	0.3	*	1.7	292.6	1.7	311.1	1.5	283.1	0	*
Pacific	0.0	*	1.0	*	0.0	*	0.0	*	0	*
Pend Oreille	1.0	*	0.3	*	0.7	*	0.6	*	0	*
Pierce	23.7	227.0	14.7	149.7	18.7	192.2	17.0	174.9	14	140.9
San Juan	0.7	*	0.0	*	0.0	*	0.0	*	0	*
Skagit	1.0	*	1.0	*	3.7	275.3	3.3	250.5	1	*
Skamania	0.0	*	0.3	*	0.3	*	0.3	*	0	*
Snohomish	10.3	125.8	10.3	131.8	12.3	151.7	11.2	138.1	12	141.2
Spokane	9.7	170.3	10.3	186.0	8.7	156.1	7.9	142.1	4	*
Stevens	0.7	*	1.3	*	0.0	*	0.0	*	0	*
Thurston	3.7	150.9	2.3	95.2	4.0	162.8	3.6	148.2	2	*
Wahkiakum	0.0	*	0.0	*	0.0	*	0.0	*	0	*
Walla Walla	0.7	*	1.3	*	1.3	*	1.2	*	0	*
Whatcom	2.7	143.7	3.0	156.4	1.7	84.6	1.5	77.0	2	*
Whitman	1.3	*	1.3	*	0.3	*	0.3	*	1	*
Yakima	12.0	286.1	6.7	155.4	6.0	142.0	5.5	129.2	16	377.6

<sup>1</sup>Rate per 100,000 live births.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are Q00-Q99.

Codes for International Classification of Diseases (Ninth Revision) are 740-759.

Comparability Ratio is 0.91 and standard error is 0.0057.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.



Table S38. Infant (Age < 1 Year) Mortality Due to Sudden Infant Death Syndrome by Place of Residence, 1990-1999

County	1990-1992		1993-1995		1996-1998		Comparability Modified 1996- 1998		1999 (ICD-10)	
	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	Mean No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>State Total</b>	<b>164.0</b>	<b>205.6</b>	<b>118.7</b>	<b>152.5</b>	<b>85.0</b>	<b>108.2</b>	<b>88.4</b>	<b>112.5</b>	<b>67</b>	<b>84.2</b>
Adams	0.7	*	0.0	*	0.3	*	0.3	*	0	*
Asotin	0.7	*	0.7	*	0.0	*	0.0	*	2	*
Benton	4.0	207.0	2.0	101.5	2.7	131.6	2.8	136.8	1	*
Chelan	1.3	*	0.0	*	1.3	*	1.4	*	0	*
Clallam	2.3	324.1	2.0	308.2	0.7	*	0.7	*	1	*
Clark	6.3	156.4	3.7	84.4	4.7	94.5	4.9	98.3	2	*
Columbia	0.0	*	0.3	*	0.0	*	0.0	*	0	*
Cowlitz	6.0	456.7	2.7	218.3	1.3	*	1.4	*	1	*
Douglas	0.7	*	0.0	*	0.7	*	0.7	*	0	*
Ferry	0.3	*	0.7	*	0.0	*	0.0	*	0	*
Franklin	1.7	175.7	1.7	169.3	1.3	*	1.4	*	1	*
Garfield	0.0	*	0.0	*	0.0	*	0.0	*	0	*
Grant	2.3	217.9	0.3	*	0.7	*	0.7	*	0	*
Grays Harbor	1.7	173.4	3.7	428.2	2.0	228.9	2.1	238.1	1	*
Island	3.0	283.0	2.0	200.7	2.0	208.0	2.1	216.4	0	*
Jefferson	0.7	*	1.7	750.8	0.3	*	0.3	*	0	*
King	39.7	171.7	31.7	143.5	18.3	84.1	19.1	87.4	11	50.0
Kitsap	7.3	210.2	3.0	92.5	1.3	*	1.4	*	5	172.8
Kittitas	0.3	*	0.3	*	0.3	*	0.3	*	0	*
Klickitat	1.3	*	0.7	*	0.7	*	0.7	*	0	*
Lewis	3.3	384.0	2.0	232.4	1.7	188.0	1.7	195.5	4	*
Lincoln	0.0	*	0.0	*	0.3	*	0.3	*	0	*
Mason	2.0	398.7	1.3	*	1.0	*	1.0	*	2	*
Okanogan	2.3	417.9	0.3	*	0.3	*	0.3	*	0	*
Pacific	0.7	*	0.7	*	0.0	*	0.0	*	0	*
Pend Oreille	0.3	*	0.3	*	0.3	*	0.3	*	0	*
Pierce	26.3	252.6	20.0	204.1	14.0	144.2	14.6	149.9	15	150.9
San Juan	0.0	*	0.0	*	0.0	*	0.0	*	0	*
Skagit	3.7	286.7	1.3	*	0.3	*	0.3	*	2	*
Skamania	0.0	*	0.3	*	0.0	*	0.0	*	0	*
Snohomish	14.3	174.5	10.3	131.8	6.3	77.9	6.6	81.0	6	70.6
Spokane	11.0	193.8	11.7	210.0	9.3	168.1	9.7	174.9	6	109.2
Stevens	0.7	*	0.3	*	1.3	*	1.4	*	1	*
Thurston	3.7	150.9	3.3	135.9	3.0	122.1	3.1	127.0	2	*
Wahkiakum	0.0	*	0.0	*	0.3	*	0.3	*	0	*
Walla Walla	1.0	*	0.7	*	1.7	231.9	1.7	241.2	0	*
Whatcom	3.0	161.7	2.3	121.6	0.7	*	0.7	*	1	*
Whitman	0.3	*	0.3	*	0.3	*	0.3	*	0	*
Yakima	11.0	262.2	6.3	147.6	5.3	126.2	5.5	131.3	3	*

<sup>1</sup>Rate per 100,000 live births.

\* Rate not calculated because total number of deaths was less than 5 (or mean less than 1.7).

NOTES: Codes for International Classification of Diseases (Tenth Revision) in 1999 are R95.

Codes for International Classification of Diseases (Ninth Revision) are 798.0.

Comparability Ratio is 1.04 and standard error is 0.0040.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

Table S39. Fetal Mortality to Residents by Cause, 1993-1999

County	1993-1995		1996-1998		1999	
	Mean No.	Ratio <sup>1</sup>	Mean No.	Ratio <sup>1</sup>	Mean No.	Ratio <sup>1</sup>
<b>All causes<sup>2</sup></b>	<b>(419.3)</b>	<b>(5.4)</b>	<b>(463.3)</b>	<b>(5.9)</b>	<b>(468)</b>	<b>(5.9)</b>
<b>Perinatal conditions (760-771.2,771.4-779)(P00-P96)</b>	<b>(361.0)</b>	<b>(4.6)</b>	<b>(396.0)</b>	<b>(5.0)</b>	<b>(390)</b>	<b>(4.9)</b>
Fetus Affected by Maternal Conditions (760)(P00)	(14.3)	(0.2)	(16.3)	(0.2)	(22)	(0.3)
Maternal Hypertensive Disorders (760.0)(P00.0)	9.0	0.1	9.0	0.1	15	0.2
Maternal Injury (760.5)(P00.5)	3.7	0.0	2.3	0.0	3	*
Other Maternal Conditions (Residual)	1.7	0.0	5.0	0.1	4	*
Fetus Affected by Maternal Complications of Pregnancy (761)(P01)	(39.3)	(0.5)	(50.3)	(0.6)	(52)	(0.7)
Incompetent Cervix (761.0) (P01.0)	8.7	0.1	13.3	0.2	15	0.2
Premature Rupture of Membranes (761.1)(P01.1)	22.7	0.3	21.3	0.3	28	0.4
Multiple Pregnancy (761.5)(P01.5)	3.3	0.0	4.3	0.1	6	0.1
Other (Residual)	4.7	0.1	11.3	0.1	3	*
Fetus Affected by Complic. Placenta, Cord & Membrane (762)(P02)	(149.3)	(1.9)	(144.7)	(1.8)	(125)	(1.6)
Other Forms Placental Separation & Hemorrhage (762.1)(P02.1)	44.0	0.6	39.7	0.5	27	0.3
Other Morphological & Functional Abnorm. of Placenta (762.2)(P02.2)	12.7	0.2	13.0	0.2	21	0.3
Placental Transfusion Syndrome (762.3)(P02.3)	5.7	0.1	7.3	0.1	7	0.1
Other Compression of Umbilical Cord (762.5)(P02.5)	33.0	0.4	32.7	0.4	39	0.5
Other & Unspecified Conditions of Umbilical Cord (762.6)(P02.6)	38.0	0.5	36.7	0.5	23	0.3
Chorioamnionitis (762.7)(P02.7)	12.0	0.2	10.0	0.1	5	0.1
Other (Residual)	4.0	0.1	5.3	0.1	3	*
Complications of Labor & Delivery (763.0-763.4,763.6-763.9)(P03)	2.0	0.0	3.3	0.0	4	*
Fetus Affected by Noxious Influences Via Placenta (763.5)(P04)	0.0	*	0.0	*	4	*
Slow Fetal Growth & Fetal Malnutrition (764)(P05)	2.3	0.0	3.3	0.0	2	*
Disorders Related to Short Gestation, Low Birth Wt (765)(P07)	22.0	0.3	30.3	0.4	33	0.4
Disorders Related to Long Gestation & High Birth Weight(766)(P08)	0.0	*	0.3	*	0	*
Birth Trauma (767)(P10-P15)	0.0	*	0.7	*	0	*
Intrauterine Hypoxia and Birth Asphyxia (768)(P20-P21)	7.7	0.1	4.7	0.1	4	*
Fetal Hemorrhage (772)(P50-P54)	1.3	*	2.0	0.0	4	*
Hydrops Fetalis Due to Hemolytic Disease (773)(P56)	0.7	*	1.0	*	0	*
Transitory Endocrine & Metabolic Disorders (775)(P70-P74)	1.7	0.0	4.0	0.1	4	*
Fetal Death of Unspecified Cause (779.9)(P95)	101.0	1.3	114.7	1.5	113	1.4
All other (Residual)	19.3	0.2	20.3	0.3	23	0.3
<b>Congenital Malform. &amp; Chromosomal Abnorm. (740-759)(Q00-Q99)</b>	<b>(55.3)</b>	<b>(0.7)</b>	<b>(64.3)</b>	<b>(0.8)</b>	<b>(77)</b>	<b>(1.0)</b>
Congenital Malformations of Nervous System (740-742)(Q00-Q07)	(12.0)	(0.2)	(11.7)	(0.1)	(7)	(0.1)
Anencephaly & Similar Malformations (740)(Q00)	7.3	0.1	6.7	0.1	7	0.1
Other (741-742)(Q01-Q07)	4.7	0.1	5.0	0.1	0	*
Congenital Malformations of Heart (745-746)(Q20-Q24)	5.7	0.1	8.0	0.1	7	0.1
Congenital Malformations of Urinary System (753)(Q60-Q64)	1.7	0.0	2.0	0.0	5	0.1
Congenital Malform. Musculoskeletal & Integument (754-757)(Q65-Q85)	1.0	*	1.3	*	4	*
Chromosomal Abnormalities Not Elsewhere Classified (758)(Q90-Q99)	(17.3)	(0.2)	(22.7)	(0.3)	(31)	(0.4)
Down's Syndrome (758.0)(Q90)	6.3	0.1	4.3	0.1	9	0.1
Edward's Syndrome (758.2)(Q91.0-Q91.3)	5.7	0.1	7.7	0.1	13	0.2
Other (Residual)	5.3	0.1	10.7	0.1	9	0.1
Other (Residual)	17.7	0.2	18.7	0.2	23	0.3
All Other Causes (Residual)	3.0	0.0	3.0	0.0	1	*

<sup>1</sup> Ratio per 1,000 live births.

<sup>2</sup> Group totals are shown in parentheses.

\* Ratio not calculated because total number of deaths was less than 5 (or mean less than 1.7).

Note: Comparability ratios are not available for fetal deaths.

Rates based on fewer than 20 deaths are likely to be unstable and imprecise.

# Appendices



## **Appendix A : Technical Appendix**

### ***Sources of Data***

#### Collection Years

Data for *Washington State Vital Statistics ICD-10 Mortality Supplement, 1990-1999* are compiled from items on death and fetal death certificates received before extraction of annual data files. (See Appendix D for samples of certificate forms used.)

#### Population

Population estimates in this report are from the Washington State Office of Financial Management, Forecasting Division, *Population Estimates by Age and Sex: 1980-1999, Washington State*, August 30, 1999.

### ***Classification of Data***

Classification and coding of data on Washington State vital records follow National Center for Health Statistics (NCHS) guidelines as defined in *Vital Statistics Instruction Manuals*, parts 1-20 (Published by U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Center for Health Statistics, Hyattsville, Maryland).

#### Demographics

##### *Age*

The death certificate contains fields for reported age at death and also birth and death dates, which are used to calculate age at death. Where there is a discrepancy between the reported and calculated ages, the county (and ultimately the funeral director) is queried and most of the discrepancies are resolved. For the remaining discrepancies, where there is a difference of one year, the calculated age is used for age at death (which assumes that the informant made an arithmetic error). Where there is a difference of more than one year, the reported age is used.

For infant deaths (<1 year), age is measured in minutes, hours, days, or months. Some certificates may report a primary and secondary age, e.g., 1 month 2 weeks. This report uses only the primary age (e.g., 1 month). The secondary age (e.g., 2 weeks) is dropped off, so the infant's age is truncated at the primary age category.

##### *County of Residence*

The county of residence data reported by the informant was verified by a process called geocoding using software that identifies county based on street address. When the reported county differed from the one assigned through geocoding, the

address was located on a base map and the correct county was assigned to the record. In the rare instances in which a post office box was given as the address, the reported county of residence was retained since the software cannot assign county without a street address. The geocoding was done for 1987-1999 births, deaths, and fetal deaths. Geocoding could not be done prior to 1987 because address information is not available for many records in those years. The county of residence assigned through geocoding matched the county originally reported by the informant in all but about 0.4% of the records. Most of the differences occurred in areas where zip codes cross county boundaries, and informants may be less sure of whether an address is in one county or the other. In most instances where differences were found, the geocoded county was determined to be correct and, in these instances, it was used in place of the reported county. The differences amounted to very small proportions of births or deaths in the affected counties.

In the few instances when the county or city of residence or occurrence is unknown, the county/city is imputed using NCHS guidelines. For place of occurrence, if the county is known but the city is not, the place of occurrence is set to the rural county value (no defined city). If both county and city are unknown, the place of occurrence is set to the county and city of occurrence of the previous record. For place of residence, if the county is known but the city is not, the place of residence is set to the rural county value. If both county and city of residence are unknown but the event occurred in Washington, the place of residence is set to the county/city of occurrence. If both county and city of residence are unknown and the event occurred outside Washington, the place of residence is set to the largest city in the state (Seattle).

### Cause of Death

The causes of death presented in this report are classified in accordance with the International Classification of Diseases, Tenth Revision published by the World Health Organization. The State of Washington began using this revision on January 1, 1999.

According to the National Center for Health Statistics, more than 99% of all deaths occurring in the United States are registered in the death certificate system. The accuracy of reporting specific causes of death may vary since classification of disease conditions is a medical-legal opinion subject to the best information available to the physician, medical examiner, or coroner certifying the cause of death.

### *Underlying Cause Of Death*

Tabulated causes of death in this report are based on the underlying cause of death. The underlying cause of death is defined as “(a) the disease or injury which initiated the train of events leading directly to death or (b) the circumstances of the accident or violence which produced the fatal injury.” International (World Health Organization) rules are used to determine the

underlying cause of death using data supplied by the certifier in the “cause of death” and “other significant conditions” sections of the death certificate.

Information from other sources is used to supplement the cause of death data on the certificate to determine a more precise or more accurate cause of death. The following sources are used:

1. Queries: For about 8% of records, the certifier of the cause of death is asked for additional information because the cause of death data given are inaccurate, incomplete, or non-specific. About 93-98% of these queries are returned. The underlying cause of death may change minimally or substantially as a result of these queries. Query standards change over time, which can affect trends in cause of death and death rates for Washington compared to other states or to the United States.
2. State Patrol: The Washington State Patrol provides information on motor vehicle accidents which is used to refine or add a more complete cause of death for these deaths, particularly related to whether the decedent was the driver or a passenger.
3. Gun Surveillance: In many gun-related deaths, the gun is removed from the scene so the cause of death cannot be coded to the specific type of gun involved (such as handgun or rifle). Beginning in 1995, cause of death data have been supplemented with information on type of gun from a statewide reporting system for gun-related deaths operated by the Department of Health’s Injury Prevention Program. Beginning in 1999, cause of death information for legal intervention was updated using the gun surveillance data.
4. Labor and Industries (L&I): For injury deaths, the death certificate asks whether or not the injury occurred at work. This item is sometimes open to interpretation as to whether the injury occurred in the course of the person’s work or not. Beginning with 1996, death certificate data are supplemented with results of L&I investigations of work-related injuries.

### *Cause of Death Groupings*

Due to the detailed nature of this classification system, it is common to group ICD codes into more general categories for analysis and comparison purposes. The National Center for Health Statistics (NCHS) provides one of the most commonly used classification systems in which causes of deaths for adults are grouped into 113 separate groups and deaths for infants into 130 groups. NCHS groupings were used throughout this report.

### ***Definitions***

*Fetal Death* - Death prior to the complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy. The death is indicated by the fact that after such expulsion or extraction the fetus does not breathe or show any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. Reporting of fetal

deaths to the state is required only when the gestational period is twenty weeks or more.

*Occurrence Data* - Data allocated by place where the event occurred, regardless of the person's place of residence.

*Residence Data* - Data allocated by place of residence of the child's mother (births, fetal deaths), or by place of residence of the decedent (deaths), regardless of where the event occurred.

*Underlying Cause of Death* - The disease or injury which initiated the train of morbid events leading directly or indirectly to death or the circumstances of the accident or violence which produced the fatal injury.

### ***Rates and Ratios***

*Rounding of Rates* - Rates are rounded to the nearest tenth. When the rate or percent is less than one-tenth, the entry is 0. Rates are not calculated when the number of events is less than 5.

*Rates and Ratios Used in this Report* - Rates and ratios are calculated by dividing the number of events of concern by the population at risk (or a related population) and multiplying by a standard constant (i.e., 1,000 or 10,000 or 100,000).

$$\text{Age-Specific Death Rate} = \frac{\# \text{Deaths for Specific Age Group}}{\text{Population for Same Age Group}} \times 100,000$$

$$\text{Cause-Specific Death Rate} = \frac{\# \text{Deaths for Specific Cause}}{\text{Total Population}} \times 100,000$$

$$\text{Age-Adjusted Death Rate} = \sum_i W_i \cdot \frac{\# \text{Deaths}_i}{\text{Population}_i} \times 100,000$$

$$\text{where } W_i = \frac{\text{Standard Population}_i}{\text{Total Standard Population}}$$

and  $i$  = age group

$$\text{Infant Death Rate} = \frac{\# \text{Infant Deaths}}{\text{Total Live Births}} \times 1,000$$

$$\text{Comparability Ratio} = \frac{\# \text{Deaths Classified with ICD-10}}{\# \text{Deaths Classified with ICD-9}}$$

$$\text{Comparability Modified Values} = \text{Rate or Count} \times \text{Comparability Ratio}$$

**Appendix B: Comparability of Cause of Death Between ICD-9 and ICD-10: Preliminary Estimates**



## **Appendix C: Sample Certificates**

