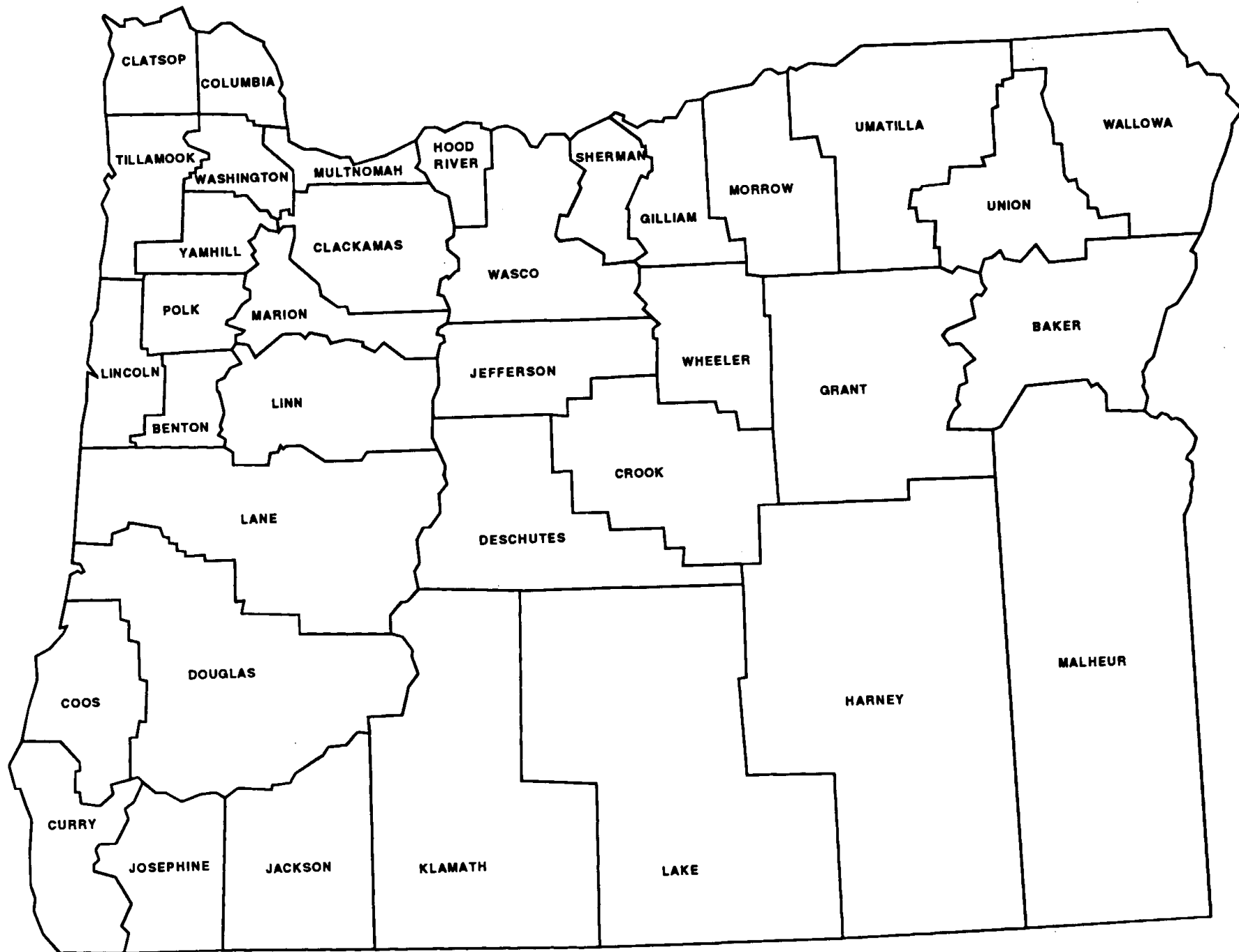


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Oregon  
Vital Statistics  
Annual Report  
1997  
Vol. 2

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Oregon  
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1997

Volume 2

Oregon Department of Human Services  
Health Division  
Center for Disease Prevention and Epidemiology  
Center for Health Statistics

ISSN: 1524-377X

*Alternate formats available upon request.*

Published March 2000

*Prepared by:*  
Center for Health Statistics

*Researchers:*

Joyce Grant-Worley  
David Hopkins

Marcie Merritt  
Cathy Riddell

Karen Semprevivo  
Recinda Sherman-Seitz

*Desktop Publishing:*  
Melissa Grace Franklin

*Special thanks to other staff members of the Center for Health Statistics:*

Diane Aho  
Naveed Ali  
Berhanu Anteneh  
Michelle Bloch  
Tony Bojanowski  
Terrie Bollinger  
David Burgess  
Kathy Cook  
Virginia Davis  
Azure Diamon  
Phebe Dorcus  
Debbie Draghia  
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Desiree Somner  
Denice Sprague  
Gordon Sindt  
Johanna Swenson  
Suzanne Trotter  
Chan Vannarath  
Tony Velasquez  
William Villani  
Jennifer Woodward

P.O. Box 14050  
Portland, OR 97293-0050  
Phone: (503) 731-4354

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# Preface

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## **PREFACE**

**“What’s past is prologue...”**

Sometimes the best way to determine what direction to take is to look at where we are and back at where we have been. This is as true in matters of public health as it is in navigation. And in today’s complex society, careful planning is becoming more important than ever before.

Each year, the Oregon Health Division (OHD) publishes the Oregon Vital Statistics Annual Report, an analytical look at the health of Oregon as measured by the health of its citizens. By this means, policy makers and health care professionals have a source of important knowledge that can be used to form bases for action and benchmarks for assessing progress.

## **STRUCTURE OF THE REPORT**

Starting with the 1992 data, the Vital Statistics Annual Report is issued in two volumes in an effort to make it easier to use.

Volume 1 presents data on births, abortions, and teen pregnancy.

Volume 2 presents data on deaths (all ages), perinatal deaths and adolescent suicide attempts.

Marriage and divorce data are no longer published in the report, but simple, unpublished cross-tabulations are available by calling the Center for Health Statistics.

Comprehensive information on communicable diseases can be obtained by contacting the OHD Center for Disease Prevention and Epidemiology.

The more significant demographic and public health issues are discussed in the narrative sections that open each chapter. These narratives are accompanied by charts, graphs, and sidebar tables. Readers can research their own areas of interest by using the data in the many tables at the end of each section. You can also refer to other OHD reports for more detail on the specific issues summarized in this report. Recent publications are listed on the back inside cover of this report.

## **A COOPERATIVE EFFORT**

The presentation of data in this report is the final stage of a long, ongoing process that begins with the prompt, accurate recording of vital events. This registration system ensures that the information is collected, kept secure, and made available to individuals and their families when needed for documentation. Tabulation and analysis of the data by the Oregon Center for Health Statistics provide useful information about the health and social changes occurring in Oregon.

Vital Statistics has been called “the eyes and ears of public health,” and is, in fact, the only organized system of health records covering the entire population. The collection of data is a highly cooperative effort that depends on the participation of a great many people throughout the state.

## **THE PROVIDERS OF SERVICES**

Those who provide the services associated with vital events are the first participants in the collection system.

The birth attendant completes both the legal document and the confidential statistical section of the birth certificate. For deaths, the funeral director or person who first assumes responsibility for the body files the death or fetal death certificate. A physician completes the medical portion of these death certificates, except in cases of found bodies and unnatural deaths, which are certified by the medical examiner. Hospital medical records personnel help to ensure that all certificates are complete and accurate.

These service providers then file the completed certificates with the county registrars in the county where the event occurred.

Abortions and adolescent suicide attempts are treated differently. The providers of induced abortions file the completed statistical reports (which contain no identifying information) directly with the state registrar. Adolescent suicide attempts (again without identifying information) are reported by the hospitals treating the attempters.

## **COUNTY OFFICIALS**

County registrars play an important role by further assuring the completeness and accuracy of birth, death, and fetal death registration. They check the certificates against other sources of information to make certain no events are missed. County registrars also follow up any incomplete items before sending the certificates to the state registrar at the Center for Health Statistics.

## **CENTER FOR HEALTH STATISTICS**

At the state level, the staff of the Center for Health Statistics perform additional checks for completeness and accuracy. A field representative makes contact with providers and county registrars. Clerical staff send correspondence seeking additional information on such matters as causes of death, birthweight, and tobacco use. Microfilmmers store certificates so that certified copies can be made. Coders and data entry personnel turn the collected information into computerized data, which are then retrieved by programmers, analyzed by researchers, and made available for demographic and public health needs.

## **OTHER STATES**

This report does not overlook events relating to Oregon residents that occurred in another state. The Centers for Health

Statistics in each U.S. state and Canadian province have agreed to forward copies of birth, death, and fetal death certificates to the state where the person usually resided. A cooperative agreement also exists for reports on induced termination of pregnancy; however, some states collect no resident information on these reports and, therefore, cannot participate in the exchange.

Among all these participants, it is clear there is no single recorder. The many hundreds of people throughout Oregon who record the major life events of our citizens have all played important roles in preparing this report. It could not have been achieved without them.



# Quick Reference: Volume 2

## Summary of Oregon Vital Events, 1997

<b>Population</b>	3,217,000	Population increased 36,000 , or 1.1 percent over 1996.
<b>Deaths</b> Number Rate	<b>Residents</b> 28,750 8.9	Number of deaths decreased by 150. Rate decreased by 2.2 percent.
<b>Infant Deaths</b> Number Rate	<b>Residents</b> 256 5.8	Number of infant deaths increased by 12. Rate increased by 3.6 percent.
<b>Neonatal Deaths</b> Number Rate	<b>Residents</b> 157 3.6	Both the number and rate increased, but not significantly.
<b>Maternal Deaths</b> Number Ratio	<b>Residents</b> 5 11.4	Oregon's average maternal death rate for five years (8.5) is slightly, but not statistically significantly, higher than the U.S. five-year rate during 1993-97.

Crude death rates are per 1,000 population; infant and neonatal death rates per 1,000 live resident births; maternal death ratio per 100,000 live resident births.

**TABLE 5-1.**  
**Deaths, Maternal Deaths, Infant Deaths, Neonatal Deaths,**  
**and Fetal Deaths, U.S., 1945-1997**

Year	Deaths		Maternal Deaths		Infant Deaths		Neonatal Deaths		Fetal Deaths	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Ratio
1945	1,401,719	10.6	5,668	207.2	104,684	38.3	66,593	24.3	65,513	23.9
1946	1,395,617	10.0	5,153	156.7	111,063	33.8	79,079	24.0	74,849	22.8
1947	1,445,370	10.1	4,978	134.5	119,173	32.2	84,296	22.8	77,917	21.1
1948	1,444,337	9.9	4,122	116.6	113,169	32.0	78,426	22.2	72,838	20.6
1949	1,443,607	9.7	3,216	90.3	111,531	31.3	76,326	21.4	70,584	19.8
1950	1,452,454	9.6	2,960	83.3	103,825	29.2	72,855	20.5	68,262	19.2
1951	1,482,099	9.7	2,812	75.0	106,702	28.4	75,192	20.0	70,569	18.8
1952	1,496,838	9.6	2,610	67.8	109,413	28.4	76,253	19.8	70,447	18.3
1953	1,517,541	9.6	2,385	61.1	108,405	27.8	76,332	19.6	69,393	17.8
1954	1,481,091	9.2	2,105	52.4	106,791	26.6	76,724	19.1	70,109	17.5
1955	1,528,717	9.3	1,901	47.0	106,903	26.4	77,351	19.1	69,153	17.1
1956	1,564,476	9.4	1,702	40.9	108,183	26.0	78,659	18.9	68,659	16.5
1957	1,633,128	9.6	1,746	41.0	112,094	26.3	81,088	19.1	69,561	16.3
1958	1,647,886	9.5	1,581	37.6	113,789	27.1	81,798	19.5	69,355	16.5
1959	1,656,814	9.4	1,588	37.4	112,008	26.4	80,778	19.0	68,613	16.2
1960	1,711,982	9.5	1,579	37.1	110,873	26.0	79,733	18.7	68,480	16.1
1961	1,701,522	9.3	1,573	36.9	107,956	25.3	78,482	18.4	68,767	16.1
1962	1,756,720	9.5	1,465	35.2	105,479	25.3	76,346	18.3	66,421	15.9
1963	1,813,549	9.6	1,466	35.8	103,390	25.2	74,648	18.2	64,640	15.8
1964	1,798,051	9.4	1,343	33.3	99,783	24.8	72,026	17.9	65,931	16.4
1965	1,828,136	9.4	1,189	31.6	92,866	24.7	66,419	17.7	60,859	16.2
1966	1,863,149	9.5	1,049	29.1	85,516	23.7	61,941	17.2	56,637	15.7
1967	1,851,323	9.4	987	28.0	79,028	22.4	58,127	16.5	54,934	15.6
1968	1,930,082	9.7	859	24.5	76,263	21.8	56,456	16.1	55,293	15.8
1969	1,921,990	9.5	801	22.2	75,073	20.9	56,085	15.6	50,749	14.1
1970	1,921,031	9.5	803	21.5	74,667	20.0	56,279	15.1	52,961	14.2
1971	1,927,542	9.3	668	18.8	67,981	19.1	50,496	14.2	47,818	13.4
1972	1,963,944	9.4	612	18.8	60,182	18.5	44,432	13.6	41,380	12.7
1973	1,973,003	9.3	477	15.2	55,581	17.7	40,664	13.0	38,309	12.2
1974	1,934,388	9.1	462	14.6	52,776	16.7	38,738	12.3	36,281	11.5
1975	1,892,879	8.8	403	12.8	50,525	16.1	36,416	11.6	33,796	10.7
1976	1,909,440	8.8	390	12.3	48,265	15.2	34,587	10.9	33,111	10.5
1977	1,899,597	8.6	373	11.2	46,975	14.1	32,860	9.9	33,052	9.9
1978	1,927,788	8.7	321	9.6	45,945	13.8	31,618	9.5	32,301	9.7
1979	1,913,841	8.5	336	9.6	45,665	13.1	30,980	8.9	32,969	9.4
1980	1,989,841	8.8	334	9.2	45,526	12.6	30,618	8.5	33,353	9.2
1981	1,977,981	8.6	309	8.5	43,305	11.9	28,000	7.8	32,596	9.0
1982	1,974,797	8.5	292	7.9	42,401	11.5	28,000	7.6	32,694	8.9
1983	2,019,201	8.6	290	8.0	40,627	11.2	26,507	7.3	30,752	8.5
1984	2,039,369	8.6	285	7.8	39,580	10.8	25,691	7.0	30,099	8.2

**TABLE 5-1.**  
**Deaths, Maternal Deaths, Infant Deaths, Neonatal Deaths,**  
**and Fetal Deaths, U.S., 1945-1997 (Continued)**

Year	Deaths		Maternal Deaths		Infant Deaths		Neonatal Deaths		Fetal Deaths	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Ratio
1985	2,086,440	8.7	295	7.8	40,030	10.6	26,179	7.0	29,661	7.9
1986	2,105,361	8.7	272	7.2	38,891	10.4	25,212	6.7	28,972	7.7
1987	2,123,323	8.7	251	6.6	38,380	10.0	24,940	6.5	29,349	7.7
1988	2,167,999	8.8	330	8.4	38,910	10.0	24,690	6.3	29,442	7.5
1989	2,150,466	8.7	320	7.9	39,655	9.8	24,800	6.2	30,469	7.5
1990	2,148,463	8.6	343	8.2	38,351	9.2	23,920	5.8	31,386	7.5
1991	2,169,518	8.6	323	7.9	36,766	8.9	22,978	5.6	30,160	7.3
1992	2,175,613	8.5	318	7.8	34,628	8.5	21,849	5.4	30,256	7.4
1993	2,268,553	8.8	302	7.5	33,466	8.4	21,174	5.3	28,766	7.2
1994	2,278,994	8.8	328	8.3	31,710	8.0	20,250	5.1	27,937	7.1
1995	2,312,132	8.8	277	7.1	29,583	7.6	19,155	4.9	27,294	7.0
1996	2,314,690	8.7	294	7.6	28,487	7.3	18,572	4.8	27,069	7.0
1997	2,314,245	8.7	327	8.4	28,045	7.2	18,524	4.8	26,486	6.8

Rate per 1,000 population for deaths.

Rate per 1,000 live births for infant and neonatal deaths.

Rate per 100,000 live births for maternal deaths.

Ratio per 1,000 live births for fetal deaths.

The following federal publications are the sources for federal data: Final Mortality Data for 1997, National Vital Statistics Reports. Vol. 47, No. 19. June 30, 1999. Vital Statistics of the United States, Volumes 1-3, lists historical data. The number of fetal deaths for 1985-1991 are from Hoyert, D.L. "Perinatal Mortality in the United States: 1985-1991." U.S. Department of Health and Human Services, Public Health Services, Centers for Disease Control and Prevention, National Center for Health Statistics, 20 (26) August 1995. 1992-1996 fetal deaths, personal communication with Joyce Martin, NCHS.

**TABLE 5-2.**  
**Deaths, Maternal Deaths, Infant Deaths, Neonatal Deaths and Fetal Deaths,**  
**Oregon, 1908-1997**

Year	Deaths		Maternal Deaths		Infant Deaths		Neonatal Deaths		Fetal Deaths	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Ratio
1908	4,970	8.0	59	709.0	676	81.2	-	-	-	-
1909	5,470	8.4	70	808.7	756	80.7	-	-	-	-
1910	6,089	9.0	91	991.7	733	79.9	-	-	-	-
1911	6,360	9.2	91	951.7	753	78.7	-	-	-	-
1912	5,898	8.4	63	563.1	653	58.6	-	-	-	-
1913	6,714	9.4	60	543.8	684	61.9	-	-	-	-
1914	6,446	8.9	72	619.4	577	49.6	-	-	-	-
1915	6,718	9.1	74	605.0	583	47.6	-	-	-	-
1916	7,107	9.5	88	679.0	725	55.9	-	-	-	-
1917	7,349	9.7	87	661.7	837	63.6	-	-	-	-
1918	9,842	12.8	106	797.3	907	68.2	-	-	-	-
1919	8,881	11.4	101	740.6	845	61.9	-	-	-	-
1920	9,186	11.6	112	749.0	927	61.9	-	-	-	-
1921	8,324	10.2	117	749.7	791	50.6	-	-	-	-
1922	9,381	11.3	115	762.2	886	58.7	-	-	-	-
1923	8,983	10.6	103	687.0	853	56.9	-	-	-	-
1924	9,511	11.1	94	594.3	834	52.7	-	-	-	-
1925	9,596	10.9	95	609.8	787	50.5	-	-	-	-
1926	9,885	11.1	85	569.4	769	51.5	-	-	-	-
1927	10,222	11.2	91	621.7	693	47.3	-	-	-	-
1928	10,493	11.3	86	607.4	651	46.0	-	-	410	29.0
1929	10,680	11.3	75	566.3	633	47.7	-	-	415	31.4
1930	10,544	11.0	81	601.2	671	49.8	-	-	390	28.9
1931	10,245	10.6	61	461.2	578	43.7	-	-	360	27.2
1932	10,272	10.5	64	498.2	530	41.3	-	-	322	25.1
1933	10,450	10.5	64	523.4	493	40.3	-	-	329	26.9
1934	10,539	10.5	79	604.4	519	39.7	-	-	320	24.5
1935	11,429	11.2	72	547.8	537	40.8	-	-	300	22.8
1936	12,434	12.0	77	545.4	626	44.3	409	29.0	300	21.5
1937	12,369	11.8	56	361.4	649	41.9	415	26.8	340	22.4
1938	11,777	11.1	53	324.5	631	38.6	418	25.6	353	21.6
1939	11,779	11.0	43	257.1	580	34.7	381	22.8	322	19.3
1940	12,329	11.3	45	256.8	592	33.2	413	23.6	365	20.8
1941	12,123	10.9	43	228.9	589	30.7	397	20.9	333	17.7
1942	12,520	10.9	37	166.0	669	30.0	456	20.4	362	16.2
1943	13,440	11.5	37	145.8	776	30.6	466	18.4	-	-
1944	12,580	10.3	41	147.9	706	30.1	504	21.5	454	19.4
1945	12,325	10.0	29	124.3	660	28.3	473	20.3	402	17.2
1946	12,828	9.5	28	94.7	803	27.2	594	20.1	515	17.4
1947	13,460	9.5	35	96.7	896	24.8	645	17.8	562	15.5
1948	13,872	9.4	15	42.9	892	25.5	671	19.2	508	14.5
1949	13,698	9.1	20	57.0	862	24.6	661	18.9	488	13.9
1950	13,888	9.1	22	61.1	816	22.7	627	17.4	493	13.7
1951	14,489	9.2	5	13.4	883	23.7	637	17.1	498	13.3
1952	14,438	9.0	11	27.7	951	23.9	696	17.5	500	12.6
1953	14,598	8.9	15	37.6	938	23.5	680	17.1	524	13.1
1954	14,665	8.8	9	23.3	868	22.5	632	16.4	512	13.3

**TABLE 5-2.**  
**Deaths, Maternal Deaths, Infant Deaths, Neonatal Deaths and Fetal Deaths,**  
**Oregon, 1908-1997 (Continued)**

Year	Deaths		Maternal Deaths		Infant Deaths		Neonatal Deaths		Fetal Deaths	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Ratio
1955	15,303	9.1	8	20.7	934	24.1	681	17.6	497	12.8
1956	15,328	8.8	11	28.6	887	23.1	645	16.8	504	13.1
1957	15,633	9.0	8	21.1	828	21.9	587	15.5	499	13.2
1958	15,449	8.9	6	16.5	844	23.3	597	16.4	448	12.3
1959	16,699	9.4	9	24.6	927	25.3	664	18.1	469	12.8
1960	16,787	9.5	14	36.5	891	23.2	635	16.6	493	12.9
1961	16,885	9.3	8	21.3	861	23.0	604	16.1	454	16.1
1962	17,221	9.4	7	18.9	811	21.9	554	15.0	461	12.5
1963	18,017	9.7	7	20.1	747	21.4	551	15.8	410	11.8
1964	18,138	9.5	4	11.9	754	22.5	532	15.9	402	12.0
1965	18,133	9.2	1	3.0	696	21.1	477	14.5	421	12.8
1966	18,979	9.5	3	9.2	697	21.5	506	15.6	387	11.9
1967	18,908	9.4	4	12.7	616	19.6	436	13.9	395	12.6
1968	19,017	9.3	3	9.3	637	19.8	460	14.3	365	11.4
1969	19,548	9.4	4	11.8	592	17.5	410	12.1	194	*
1970	19,530	9.3	5	14.1	555	15.7	381	10.8	486	13.7
1971	20,087	9.4	5	15.0	615	18.4	416	12.5	408	12.2
1972	20,216	9.3	5	16.0	528	16.9	359	11.5	391	12.5
1973	20,881	9.4	1	3.2	466	15.1	329	10.6	312	10.1
1974	20,320	9.0	3	9.2	488	15.0	330	10.2	266	8.2
1975	20,142	8.8	3	9.0	502	15.1	330	9.9	284	8.5
1976	20,459	8.7	0	0.0	444	12.7	277	8.0	280	8.0
1977	20,457	8.5	5	13.3	453	12.1	293	7.8	283	7.6
1978	20,870	8.4	2	5.1	502	12.9	299	7.7	302	7.8
1979	21,024	8.3	1	2.4	450	10.8	276	6.6	307	7.4
1980	21,756	8.3	1	2.3	521	12.1	303	7.0	294	6.8
1981	21,798	8.2	3	7.0	466	10.8	299	7.0	298	6.9
1982	21,594	8.1	8	19.5	433	10.6	253	6.2	253	6.2
1983	22,361	8.5	6	15.0	385	9.6	215	5.4	268	6.7
1984	23,101	8.7	5	10.1	388	9.8	190	4.8	257	6.5
1985	23,824	8.9	4	10.1	387	9.8	211	5.3	237	6.0
1986	23,328	8.8	4	10.3	368	9.5	183	4.7	268	6.9
1987	24,181	9.0	2	5.2	402	10.4	213	5.5	222	5.7
1988	24,557	9.0	3	7.5	339	8.5	181	4.5	235	5.9
1989	24,679	8.8	4	9.7	364	8.8	205	5.0	230	5.6
1990	25,073	8.8	3	7.0	354	8.3	182	4.2	262	6.1
1991	24,935	8.5	3	7.0	307	7.2	172	4.0	261	6.1
1992	25,714	8.6	3	7.2	297	7.1	158	3.8	243	5.8
1993	27,596	9.1	7	16.8	297	7.1	154	3.7	204	4.9
1994	27,361	8.9	4	9.6	295	7.1	164	3.9	224	5.4
1995	28,190	9.0	0	0.0	262	6.1	137	3.2	237	5.5
1996	28,900	9.1	2	4.6	244	5.6	145	3.3	251	5.8
1997	28,750	8.9	5	11.4	256	5.8	157	3.6	235	5.4

- Data not available.

\* Incomplete total.

Rate per 1,000 population for deaths.

Rate per 100,000 live births for maternal deaths.

Rate per 1,000 live births for infant and neonatal deaths.

Ratio per 1,000 live births for fetal deaths.

**TABLE 5-3.**  
**Deaths, Infant Deaths, Neonatal Deaths, and Fetal Deaths,**  
**by County of Residence, Oregon, 1997**

County of Residence	Deaths		Infant Deaths		Neonatal Deaths		Fetal Deaths	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
<b>Total</b>	28,750	8.9	256	5.8	157	3.6	235	5.4
Baker	225	13.6	1	5.6	-	-	3	16.9
Benton	437	5.7	3	3.6	3	3.6	4	4.8
Clackamas	2,525	7.9	30	7.4	18	4.4	16	3.9
Clatsop	366	10.6	1	2.4	-	-	2	4.8
Columbia	354	8.5	2	3.9	1	2.0	-	-
Coos	815	13.3	4	6.0	3	4.5	1	1.5
Crook	172	13.7	1	4.5	1	4.5	2	9.0
Curry	280	6.4	-	-	-	-	2	14.1
Deschutes	762	13.0	6	4.6	3	2.3	9	6.8
Douglas	1,175	11.4	12	10.6	8	7.1	11	9.7
Gilliam	16	9.7	-	-	-	-	-	-
Grant	88	11.9	1	10.5	1	10.5	2	21.1
Harney	78	9.6	-	-	-	-	-	-
Hood River	165	15.6	1	3.3	0	-	4	13.3
Jackson	1,703	12.3	11	5.3	8	3.8	10	4.8
Jefferson	143	18.2	1	3.2	-	-	2	6.4
Josephine	917	9.8	1	1.4	1	1.4	5	7.0
Klamath	665	13.1	8	9.9	6	7.4	7	8.7
Lake	71	10.0	-	-	-	-	-	-
Lane	2,690	11.6	18	5.0	13	3.6	15	4.2
Lincoln	500	10.6	2	4.5	1	2.2	1	2.2
Linn	1,011	14.2	10	7.0	6	4.2	4	2.8
Malheur	294	16.5	4	8.4	4	8.4	7	14.7
Marion	2,411	16.5	35	7.9	18	4.1	22	5.0
Morrow	77	16.2	1	6.8	1	6.8	1	6.8
Multnomah	5,693	14.1	45	5.0	26	2.9	50	5.6
Polk	482	12.1	4	5.7	4	5.7	5	7.2
Sherman	18	7.4	-	-	-	-	1	71.4
Tillamook	277	10.3	-	-	-	-	4	16.4
Umatilla	603	15.7	6	5.8	4	3.9	7	6.8
Union	251	12.2	4	13.4	-	-	3	10.0
Wallowa	90	8.6	-	-	-	-	2	31.7
Wasco	265	13.1	2	6.8	2	6.8	3	10.2
Washington	2,435	17.0	32	4.9	19	2.9	25	3.8
Wheeler	21	8.8	-	-	-	-	-	-
Yamhill	675	13.7	10	9.2	6	5.5	5	4.6

NOTE: Rate per 1,000 population for deaths.

Rate per 1,000 live births for infant, neonatal, and fetal deaths.

- Quantity is zero.

**TABLE 5-4.  
Oregon Benchmarks Measured by Health Division Databases**

Ref. No.	Oregon Benchmarks	Unit of Measure (Per)	Year	Indicators	
				Current	Year 2000 Goal
43	Teen pregnancy rate	1000 females 10-17	1997	18.0	15.0
44	Percentage of babies whose mothers received early prenatal care (beginning in the first trimester)	100 live births	1997	81.0	90.0
45	Infant mortality rate	1000 live births	1997	5.8	6.0
46	Percentage of two-year olds who are adequately immunized	percent	1997	73.0	90.0
47	Annual percentage of new HIV cases with an early diagnosis (before symptoms occur)	% of positive cases	1997	76.0	85.0
48	Percentage of adults who do not currently smoke tobacco	percent	1997	79.0	81.0
49	Premature mortality: Years of potential life lost before age 70	1000 population 0-69	1996	59.6	57.4
50	Percentage of adults whose self-perceived health status is very good or excellent	percent	1997	59.0	65.0
56a	Percentage of infants whose mothers used alcohol during pregnancy (self-report)	100 live births	1997	2.0	2.0
56b	Percentage of infants whose mothers used tobacco during pregnancy (self-report)	100 live births	1997	16.0	15.0
66	Percentage of students who carry weapons	percent	1997	19.1	15.0
71	Percentage of Oregonians served by public drinking water systems that meet health-based standards	percent	1997	88.0	75.0

NOTE: The Oregon Benchmarks were reduced from 259 to 92 as part of the state's updated strategic plan *Oregon Shines II: Updating Oregon's Strategic Plan, A Report to the People of Oregon, January 21, 1997*. Oregon Health Division databases are used to measure 11 Benchmarks.

**Oregon Benchmarks measured by Health Division Databases Achieving the Oregon Shines Vision: The 1999 Benchmark Performance Report to the Legislative Assembly. Oregon Progress Board, March 1999.**

- 43 Source: Birth Certificate Statistical File and Abortion Statistical File. Pregnancy rates are the sum of resident live births and induced abortions divided by the estimated population.\* Spontaneous abortions and fetal deaths are not included. Pregnancy rates include live births to Oregon residents and abortions for Oregon residents regardless of where the abortion was performed. Out of state abortions for Oregon residents may be under-reported because some states where Oregon residents go to have abortions do not report the patient's state of residence.
- 44 Source: Birth Certificate Statistical File. Resident live births to women who have prenatal care visits beginning in the first trimester divided by the total number of resident live births.
- 45 Source: Death Certificate Statistical File and Birth Statistical File. Infants who die within one year of birth divided by the number of resident live births during the same calendar year.
- 46 Source: National Immunization Survey, CDC. (Prior to 1996, source: Baby Shot Survey, Immunization Program, Center for Child and Family Health.)
- 47 Source: HIV Program, Center for Disease Prevention and Epidemiology. Persons diagnosed with asymptomatic HIV disease divided by the total number of persons diagnosed with HIV during the calendar year.
- 48 Source: Behavioral Risk Factor Surveillance System (BRFSS). Adults ( $\geq 18$  years of age) who report that they do not now smoke cigarettes divided by the total number of survey respondents.
- 49 Source: Death Certificate Statistical File. Years of potential life lost (YPLL) quantifies premature mortality occurring in younger age groups by measuring the number of years between age at death and age 70. This composite figure first calculates the age-specific YPLL for each of 7 age groupings 0-4, 5-14, 15-24, 25-34, 35-44, 45-54, 55-64, and 65-69 by taking the midpoint for each age group, subtracting from 70, and multiplying by the number of deaths in each age group. The resulting number for each age group is then divided by the age-specific population and standardized (weighted) to an age-homogeneous hypothetical population of 1,000 people per every 10-year age group. Standardizing permits valid comparisons over time. The weighted numbers are summed across ages, then divided by seven (seven 10-year age groups).
- 50 Source: Behavioral Risk Factor Surveillance System (BRFSS). Adults ( $\geq 18$  years of age) who report that their general health is very good or excellent divided by the total number of survey respondents.
- 56a Source: Birth Certificate Statistical File. Resident live births whose mothers reported using alcohol during pregnancy divided by the total number of resident live births.
- 56b Source: Birth Certificate Statistical File. Resident live births whose mothers reported using tobacco during pregnancy divided by the total number of resident live births.
- 66 Source: Youth Risk Behavior Survey. Survey respondents in grades 9-12 who report carrying a weapon (such as a knife, gun, or club) within 30 days of the survey divided by the total survey respondents.
- 71 Source: Safe Water System, Drinking Water Program, Center for Environmental Health Systems.

\* All population estimates are from the *Population Estimates for Oregon*, published annually by the Center for Population Research and Census, School of Urban and Public Affairs, Portland State University.

# Mortality

## ALL CAUSES

During 1997, Oregon's death rate fell 1.6 percent to 893.7 per 100,000 population, down from 908.5. For the past five years the rate has fluctuated from 888 to 909 per 100,000 population. Prior to 1992 it had been following a consistent downward trend, declining annually since 1987. [Figure 6-1; Table 6-3]. During 1997, 28,750 Oregonians died, 150 fewer than the previous year.

Noteworthy increases occurred in the death rates for two causes: hypertension (up 16%) and diabetes mellitus (up 6.0%). Both were record highs. The diabetes rate has climbed, seemingly inexorably, since the mid-1980s; compared to its value in 1985, the 1997 death rate has more than doubled. Record low death rates were recorded for several causes, most notably SIDS where the mortality rate fell to a record low of 0.8 per 1,000 live births, a 74 percent decrease since 1980's record high of 3.1. (Much of the decrease may be attributable to the "Back to Sleep" campaign introduced during the mid-1990s; see Chapter 7 for further information.) Other record lows occurred for heart disease (down 3.4%) and arteriosclerosis (down 7.5%). And, although not a record low, the rate for homicide declined 15 percent in just one year.

Between 1996 and 1997, the age-specific death rates decreased for all age groups except 0- to 4-year-olds, where the increase was marginal. Males have consistently had higher death rates than females, but the gap is narrowing. In 1987 the rate for males was 15 percent higher; by 1997 it was just 1.4 percent higher. Also during 1997, the median age at death rose to a record high of 78 years, 81 for females and 75 for males. On average, an Oregonian died every 18 minutes during 1997.

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***The median age at death increased to 78, a record high.***

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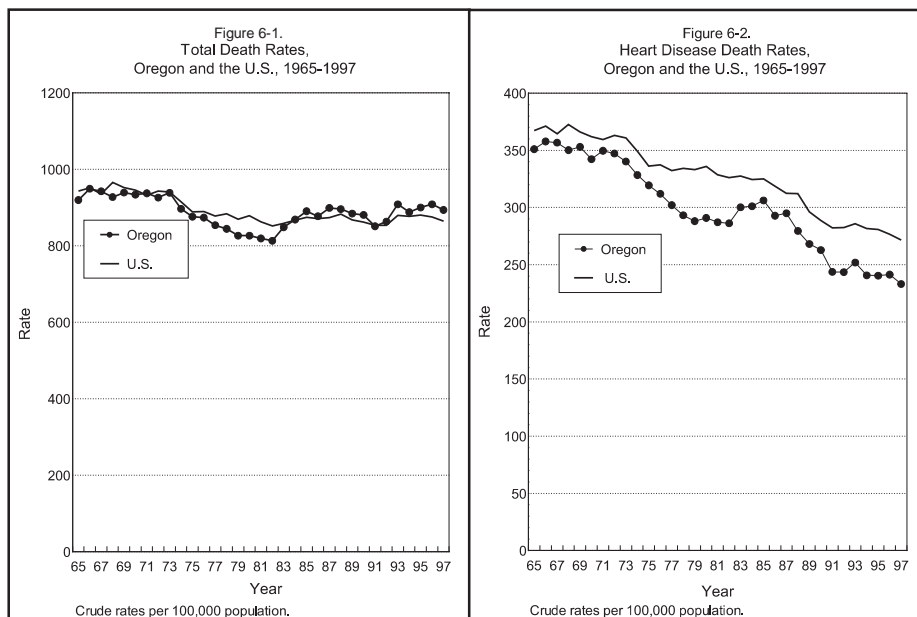
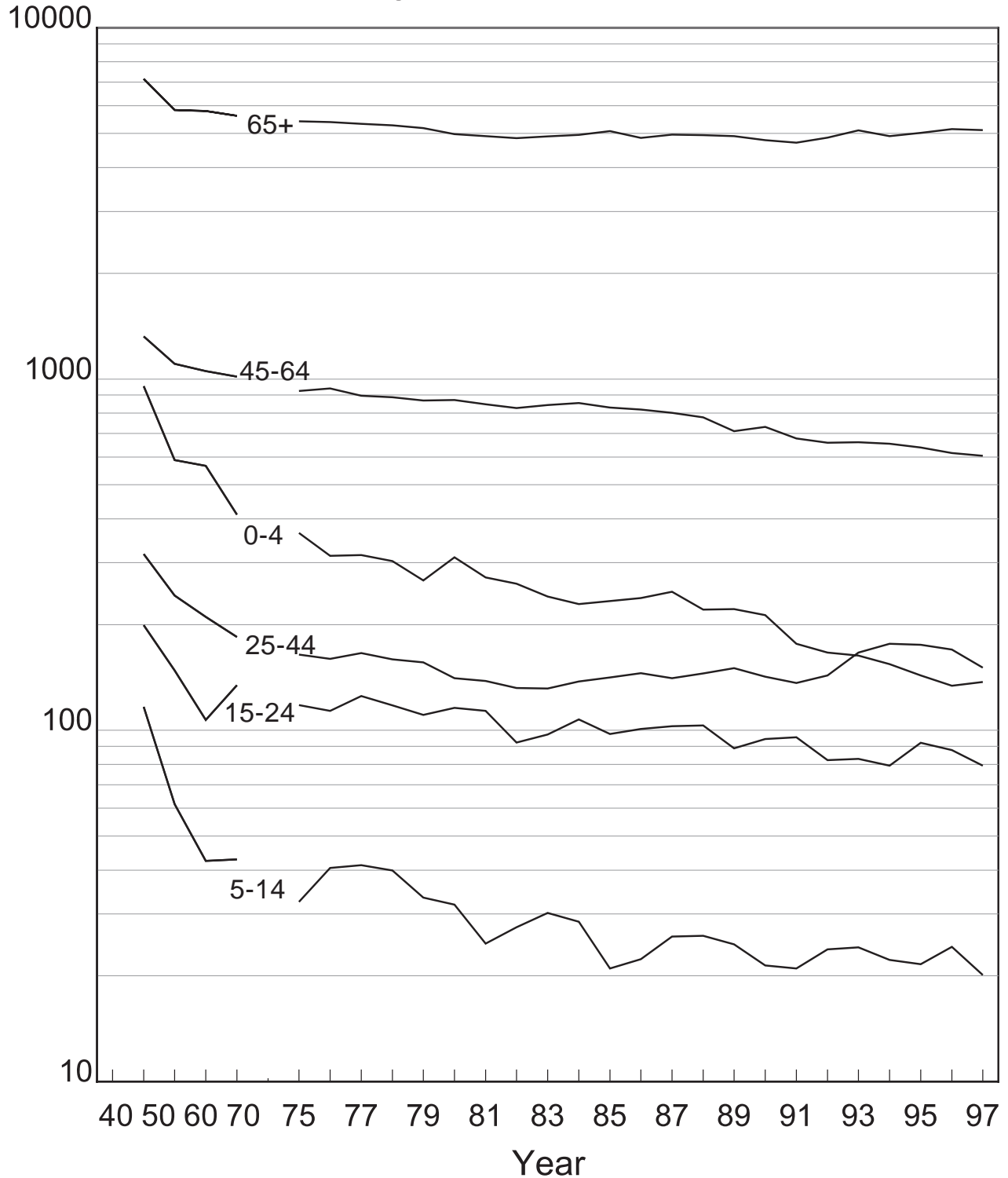
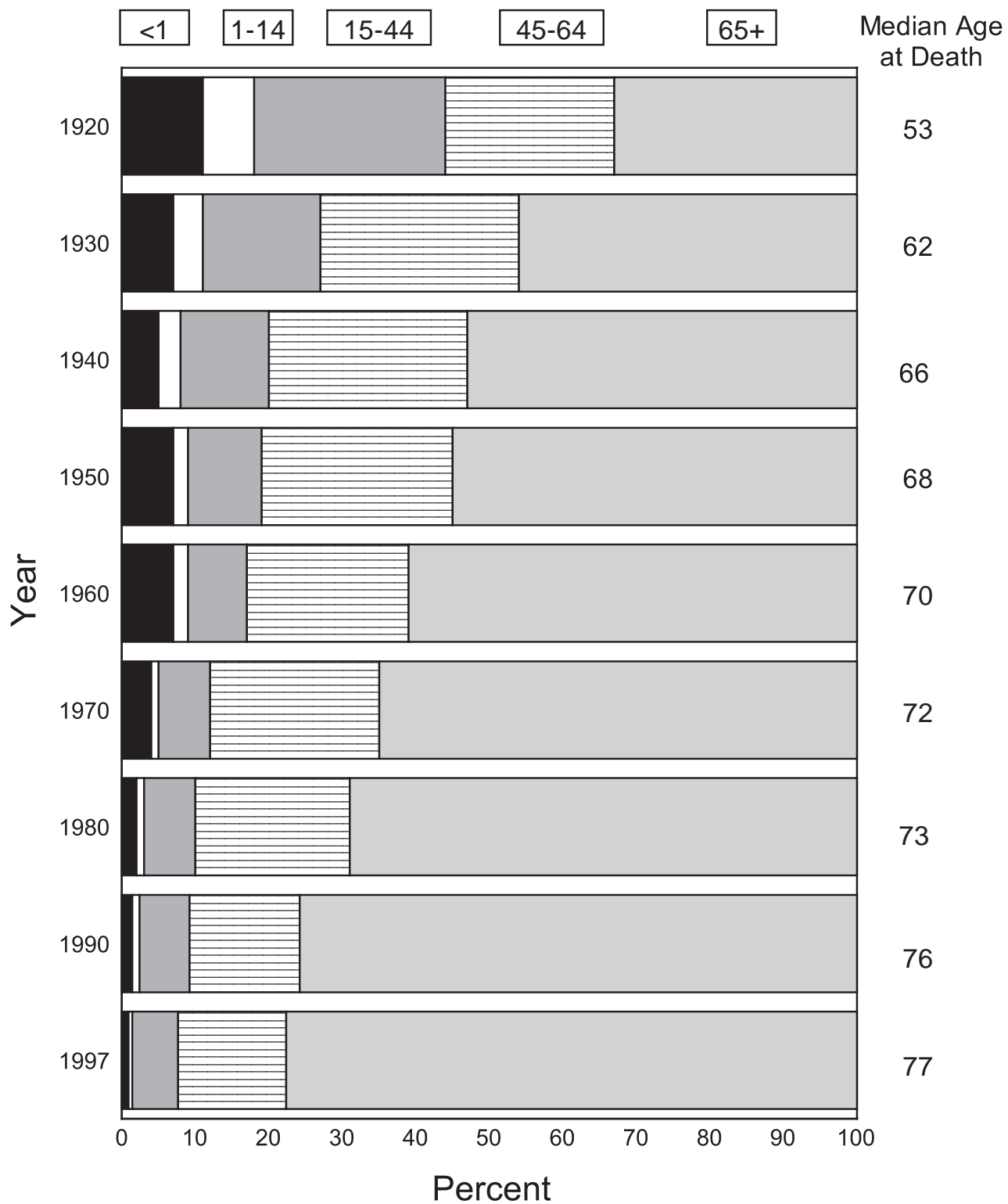


Figure 6-3.  
Age-Specific Death Rates,  
Oregon Residents, 1940-1997



Rates are per 100,000.

Figure 6-4.  
 Proportion of Deaths by Selected Age Groups,  
 Oregon Residents, 1920-1997



Oregon's 1997 crude death rate for all causes combined was somewhat higher than the nation's (864.4). However, its 1997 age-adjusted death rate was 6.1 percent lower than the nation's. [Table 6-42].<sup>1</sup> (Age-adjusted death rates control for the effect of the age distribution of a population on its death rate. Any remaining differences are due to factors other than age.)

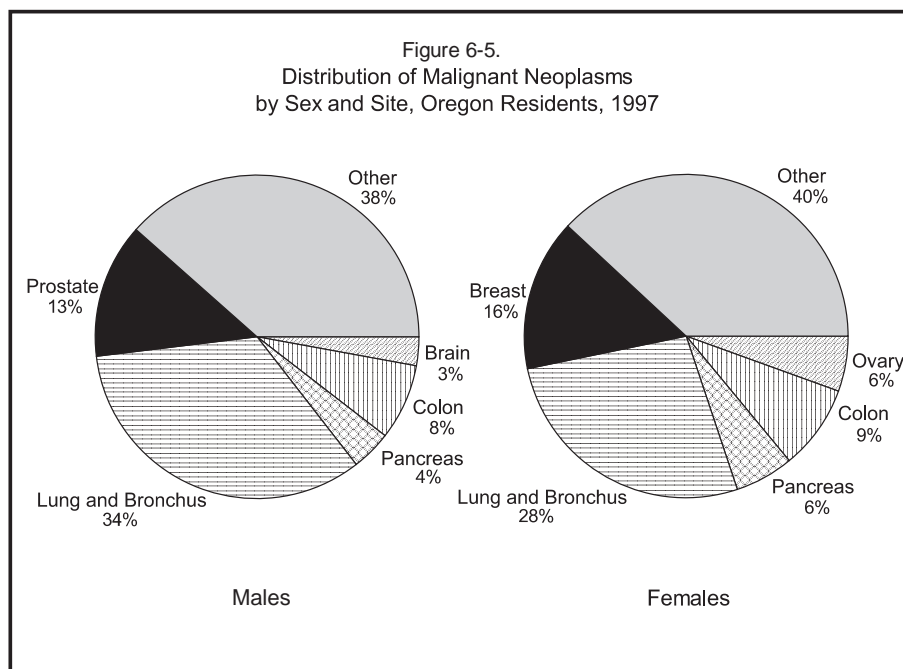
**Over the past two decades the proportion of deaths due to heart disease declined from 33 percent to 26 percent.**

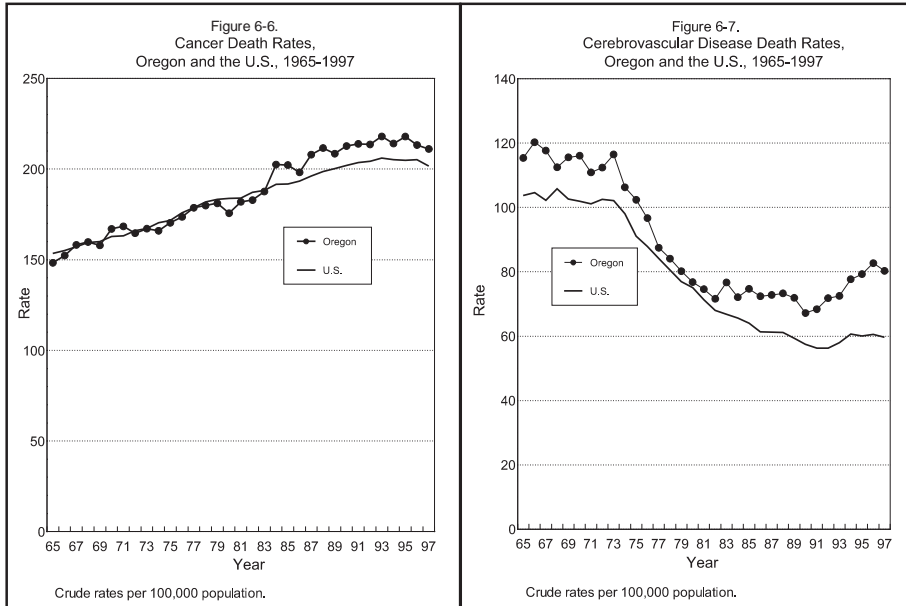
**HEART DISEASE**

Heart disease continued to be the leading cause of death in Oregon, accounting for nearly one of every four resident deaths. The near-continual annual declines seen over the past several decades essentially ceased during the 1990s until this year. The death rate fell 3.4 percent compared to the previous year, 233.1 per 100,000 population in 1997 compared to 241.3 in 1996.<sup>2</sup> [Figure 6-2; Table 6-3]. Since 1987, the largest decline has been among chronic ischemic heart disease deaths; the rate fell 33% compared to 11% for other heart diseases.

As with many causes of death, the heart disease mortality rate was higher among males than females. This disparity has narrowed during the past decade, however. [Table 6-2]. During 1987, the rate for males was 14 percent higher than that for females; by 1997, the male rate was just 8.4 percent higher than the female rate. Heart disease is the leading killer of Oregonians 75 or older. The median age for the 7,500 Oregonians who died from this cause was 80 years.

Oregon's rate has consistently been lower than the U.S. rate; in 1997, the state's age-adjusted death rate was 22 percent lower than the nation's. [Table 6-42]. An Oregonian died of heart disease every 70 minutes in 1997.





***Lung cancer is the most common fatal cancer for both men and women.***

The heart disease category includes a number of conditions. Most common, and accounting for the majority of heart disease deaths, are myocardial infarctions, coronary occlusions, coronary thromboses, and coronary heart disease. The infarctions, occlusions, and thromboses are acute, often terminal events, while coronary heart disease is a chronic condition.

**CANCER**

For more than a generation, the Oregon cancer rate rose relentlessly during the 1960s through the 1980s. That trend may be in remission; although a small increase was recorded in the cancer death rate at the beginning of the 1990s, it has declined three out of the past four years and is now only marginally higher than it was in 1990 (212.7 vs. 211.1). [Figure 6-6; Table 6-3].

Although ranking second, after heart disease, cancer is the leading killer of Oregonians ages 45 through 74. [Table 6-4]. During 1997 the median age at death for cancer patients remained at 73, the highest ever recorded. The death rate for males was 11 percent higher than that for females (222.1 versus 200.3), with the disparity greatest among the elderly. In addition to the cancer-caused deaths of 6,790 Oregonians, cancer contributed to another 815 deaths where it was not the underlying cause. [Table 6-35].

The long-term upward trend in cancer mortality over the past several decades has been driven principally by an increasing number of lung cancer deaths, a cause that would be rare in the absence of smoking. The lungs were the most common site of cancer for both sexes, with lung cancer deaths becoming increasingly prevalent among women during recent decades. In 1970, there were 4.5 lung cancer fatalities among men for every female death. By 1997 the ratio declined to 1.4- to-1.0. The total lung cancer death rate has more than quintupled since 1950, increasing from 11.6 to 63.4 per

LUNG CANCER DEATH RATES			
YEAR	TOTAL	MALE	FEMALE
1970	33.5	56.4	11.4
1975	41.2	65.9	17.7
1980	48.3	69.9	27.4
1985	56.2	76.0	37.2
1990	64.3	81.2	48.1
1995	62.5	69.5	55.7
1996	62.9	74.1	52.0
1997	63.4	74.5	52.5
Rates per 100,000 population.			

100,000 Oregonians. (This has been accompanied by a sharp increase in chronic obstructive pulmonary disease deaths, as well.)

During 1997, record high death rates were recorded for myeloid leukemia and multiple myeloma. At the same time, the breast cancer death rate fell to its lowest level since 1982.

Oregon's age-adjusted cancer death rate was 3.5 percent less than the nation's during 1997. Cancer claimed the life of an Oregonian every 77 minutes in 1997.

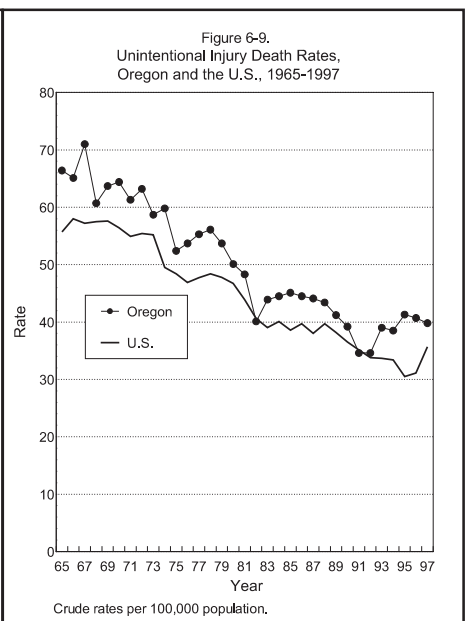
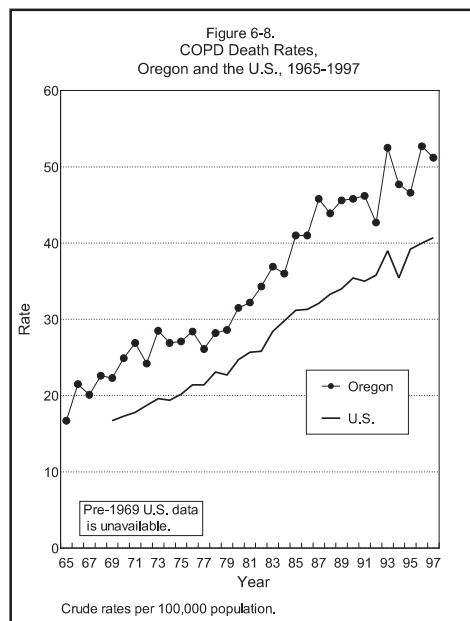
### CEREBROVASCULAR DISEASE

During most of the 1980s, the death rate for cerebrovascular disease fluctuated between a narrow range of values, ultimately declining to a record low 67.2 per 100,000 population in 1990. The early and mid-1990s were marked by increasing mortality with the rate reaching 82.7 during 1996, a 23 percent increase. [Figure 6-7; Table 6-3]. However, a small decline occurred in 1997 with the rate falling to 80.3. Nearly every age group has witnessed an increase in cerebrovascular disease death rates since the beginning of the decade. Besides the 2,582 deaths due to cerebrovascular disease, these conditions contributed to the deaths of another 1,487 Oregonians. [Table 6-35].

Cerebrovascular disease was the third most common cause of death among Oregonians, and struck females far more often than males (97.2 vs. 62.8). However, males 45-79 years old had higher death rates than similarly-aged females. The median age at death was 83 years. [Table 6-13].

Over the past quarter-century, the crude death rate from cerebrovascular disease has consistently been higher in Oregon than in the U.S. as a whole. Part of this difference is because the state's population is older than the nation's but even after controlling for this variable with age-adjusted death rates, Oregon's 1997 rate was

**Since 1990, the cerebrovascular disease death rate has increased 19 percent.**



12 percent higher than the U.S. rate. An Oregonian died from cerebrovascular disease every 3.4 hours.

Sudden circulatory crises such as strokes, cerebral thromboses, and hemorrhages are common acute forms of these diseases; cerebral arteriosclerosis is a chronic form.

**COPD**

Chronic obstructive pulmonary disease (COPD) has become an increasingly common killer of Oregonians over the past several decades, and is now the fourth leading cause of death. During 1997, the death rate declined marginally to 51.2 per 100,000 population. [Figure 6-8; Table 6-3]. A record number of years of potential life were lost, however. [Table 6-11]. The median age at death remained at 77, a record high.

There is a distinct, but decreasing, gender difference in the risk of death from COPD. In 1987, males were 48 percent more likely to die from this cause than were females; by 1997, they were only 7.1 percent more likely to do so. The vast majority of COPD deaths are caused by tobacco use; the sharp rise in deaths among women reflects their increasing smoking prevalence during past decades. No other cause, except lung cancer, has a higher proportion of deaths linked to tobacco use than does COPD. [Table 6-19].

The group of allied conditions categorized as COPD includes four principal diseases: chronic and unspecified bronchitis, emphysema, asthma, and chronic airways obstruction. The death rates for the most common of the four, chronic airways obstruction has increased 20 percent since 1987. In addition to the 1,648 Oregonians whose deaths were due to chronic obstructive pulmonary diseases, COPD was a factor in another 1,777 deaths. [Table 6-35].

During 1997, Oregon’s age-adjusted COPD death rate was 16 percent higher than the U.S. rate. An Oregonian died from chronic obstructive pulmonary disease every 5.3 hours in 1997. Most of these deaths were preventable.

**UNINTENTIONAL INJURIES**

Until the early 1980s, Oregon’s unintentional injury<sup>3</sup> death rate had been declining. The downward trend resumed in 1986 and accelerated through 1991 falling to 34.6 per 100,000 population, a record low. [Figure 6-9; Table 6-3]. Since 1992, however, the rate has trended upward reaching 40.7 in 1996 before declining to 39.8 in 1997. Nonetheless, since the record low during 1991-92, rates have risen for both sexes and most age groups, and males remained more than twice as likely as females to die from unintentional injuries.

Although this category ranked fifth overall in the number of deaths (1,281), it was the leading cause of premature death and the leading cause of death for Oregonians ages 1-44; more years of potential life were lost before age 65 from unintentional injuries than from any other cause. [Table 6-25]. Cancer and heart disease ranked second and third, respectively.

COPD Death Rates		
Year	Male	Female
1987	55.0	37.1
1997	53.0	49.5
% Change	-3.6	+19.9
Rates per 100,000 population.		

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***Unintentional injuries were the leading cause of years of potential life lost.***

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**Most unintentional poisoning deaths were overdoses of illicit drugs.**

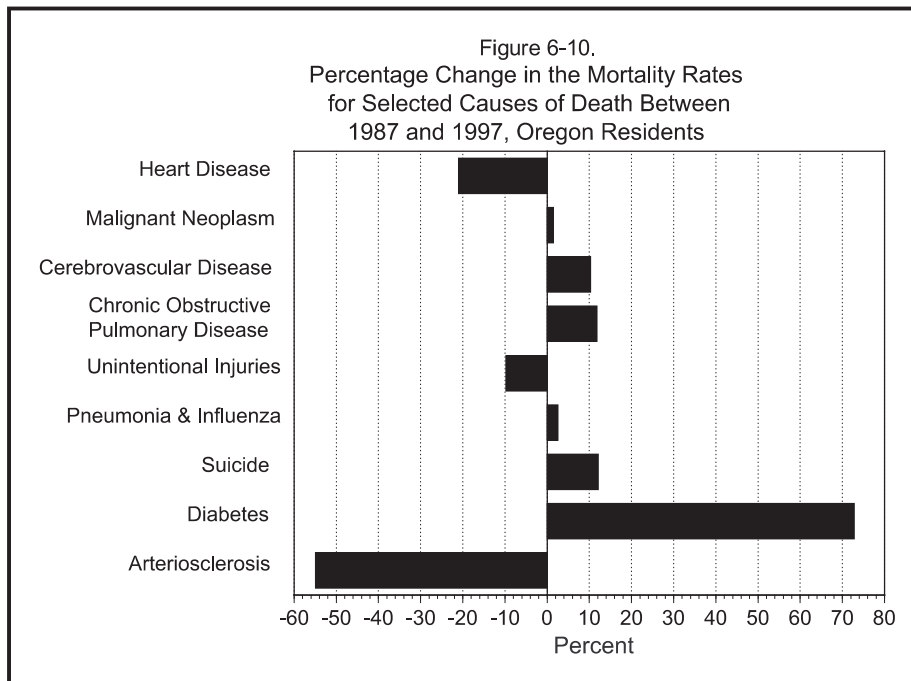
Motor vehicle-related deaths (543) accounted for 42 percent of all unintentional injury deaths; over half (58%) of the decedents were 15-44 years old. (More than one in ten of the deaths involving motor vehicles were of pedestrians. [Table 6-16].) Falls, the second most common type of fatal unintentional injury, claimed 266 Oregonians; The death rate for falls rose to 8.3 in 1997, a record high and likely a reflection of the aging population; 75 percent of fall victims were 75 or older. Most fatal falls occurred in the home. Poisonings and drownings were the third and fourth most common causes of unintentional injury deaths. [Table 6-16]. (For further information on drownings, see *Oregon Health Trends*, No. 50.) During 1997, 61 fatal unintentional injuries were sustained in the workplace.<sup>4</sup> [Table 6-14].

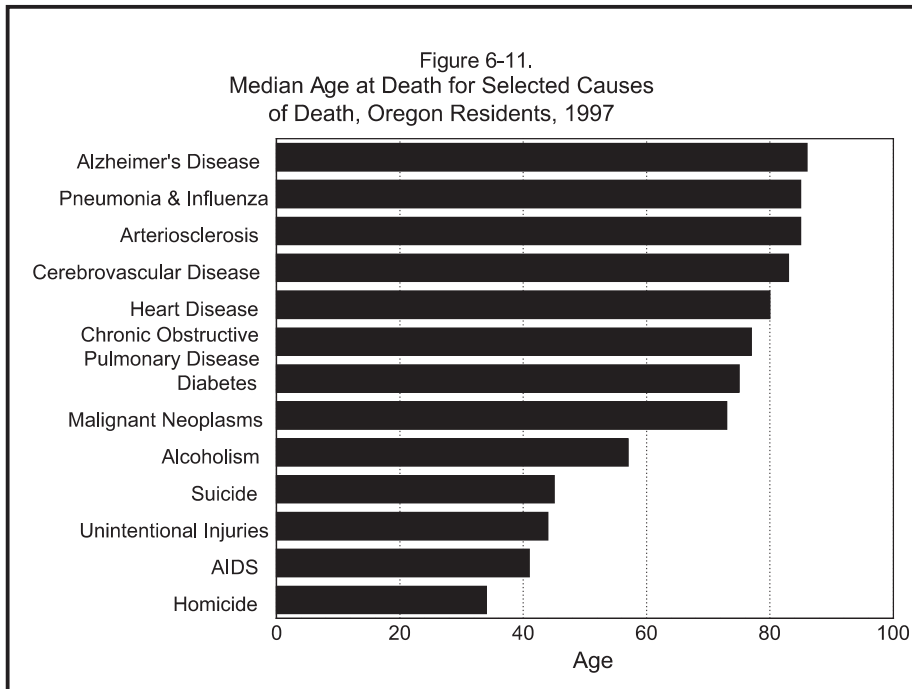
Oregonians continued to be more apt to suffer a fatal unintentional injury than the average American. During 1997, the state's age-adjusted rate exceeded the U.S. rate by 11 percent. An Oregonian died as a consequence of an unintentional injury every 6.8 hours in 1997.

**PNEUMONIA AND INFLUENZA**

The death rate for pneumonia and influenza, the sixth leading cause of death, decreased slightly, down from 29.7 per 100,000 population during 1996 to 28.3 in 1997. All of the decrease occurred among males.

As is typical, the 1997 mortality rate for pneumonia and influenza was higher for females than males (31.9 versus 24.5). This is the fifth leading cause of death among Oregonians 75 or older. Besides the 909 deaths attributed to pneumonia and influenza, these infections played a role in another 1,255 deaths. [Table 6-35].





Oregon's 1997 age-adjusted mortality rate was 24 percent lower than the national rate. A resident died of pneumonia or influenza every 9.6 hours in 1997.

## DIABETES

During the early to mid-1980s, the diabetes mellitus death rate fluctuated over a narrow range of values. Then in 1987 it moved sharply upward, with the disease claiming a record number of Oregonians. The rate has risen every year since then. By 1997, the rate had more than doubled (25.4 versus 12.3 per 100,000 population in 1986). [Table 6-3]. The increase has occurred across all age groups and both sexes. Among all Oregonians in 1997, diabetes caused 816 deaths and contributed to another 1,734. [Tables 6-3 and 6-35]. Other than the increasing obesity of Oregonians, and possibly improved physician awareness and reporting of the disease, local diabetes authorities have no explanation for the rising death rate.

Historically, Oregon's diabetes death rate has been markedly lower than the nation's, but with the increases during recent years the gap has narrowed; the state's 1997 age-adjusted death rate was just 2.9 percent lower than the U.S. rate. An Oregonian died of diabetes every 10.7 hours in 1997.

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***The diabetes death rate hit a new high for the tenth consecutive year.***

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## ALZHEIMER'S DISEASE

Alzheimer's disease (including Alzheimer's dementia) has been reported with increasing frequency during the past decade and ranked eighth among the leading causes of death during 1997. For

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***Oregon's  
Alzheimer's dis-  
ease death rate  
ranked seventh  
highest nationally.***

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the first time, the death rate for this cause declined, from 23.3 per 100,000 population in 1996 to 22.3. Women remained more likely than men to die from Alzheimer's disease; the rates were 31.4 and 13.0, respectively. [Table 6-2]. More than nine in ten (93%) of the victims were 75 or older at death. [Table 6-6]. Besides the 718 deaths due to this cause, Alzheimer's disease contributed to 467 deaths. [Table 6-35].

This state's Alzheimer's disease death rates have historically been higher than the nation's; Oregon's 1997 rate was 45 percent higher and ranked seventh highest among the states and District of Columbia. [Table 6-42]. An Oregonian died from Alzheimer's disease every 12.2 hours in 1997. For further information on Alzheimer's disease in Oregon, see *Oregon Health Trends*, No. 52.

## **SUICIDE**

A record 538 Oregonians committed suicide during 1997. The death rate, however, declined marginally to 16.7 per 100,000 population due to a more rapidly increasing population. Although often exhibiting considerable variation from year to year, the long-term trend of the suicide rate in recent decades has been upward, driven principally by increasing suicidal behavior among the state's youth. (However, the role of youth suicide in the increase in overall suicide rates appears to be abating.)

For the third year in a row, suicide was the sixth leading cause of death among males; they were 3.6 times more likely to kill themselves than were females (26.4 versus 7.3 per 100,000). Male suicide rates have consistently been high in older age groups, with the rate two to five times higher for men 80 or older than for their younger counterparts. [Table 6-7]. Among females, age-specific rates typically increase into middle age, peak among 45- to 54-year-olds, and then decline.

The youngest Oregonians to commit suicide were two 12-year-olds (a boy and a girl, both of whom hanged themselves) and the oldest, two 90 year old men. Suicide was the fourth leading cause of years of potential life lost before age 65, following unintentional injuries, cancer, and heart disease. [Table 6-25]. It was the second leading cause of death for Oregonians ages 15-34. [Table 6-4].

Firearms were the most frequently chosen method (62%) of completed suicide, followed by poisoning (19%) and hanging (10%). The method varied within different age and sex cohorts, however. [Table 6-17].

As in years past, the 1997 age-adjusted rate for Oregon was substantially higher (40 percent) than for the U.S. An Oregonian took his or her own life every 16.3 hours in 1997. For additional information on suicide, see *Suicide and Suicidal Thoughts by Oregonians*, and *Suicidal Behavior: A Study of Oregon High School Students, 1997*, recently published reports by the Center for Health Statistics.

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***Six in ten suicides  
are committed  
with  
firearms.***

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***Suicide is the  
ninth leading  
cause of death  
overall, but sixth  
among males.***

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## ALCOHOLISM

In 1997 the Oregon alcoholism<sup>5</sup> death rate was 11.9 per 100,000 population. Since 1987, the death rate has fluctuated between a low of 10.4 in 1991 and a high of 13.2 in 1996. [Table 6-3].

During 1997, alcoholism was the tenth leading cause of death overall, but ranked fourth among Oregonians 55-64. [Table 6-4]. However, if intentional and unintentional injury deaths (e.g., motor vehicle crashes) that involved alcohol were included in this count, the category would rank substantially higher. (The role, if any, of alcohol in injury deaths is rarely reported on death certificates.) Males have long been more likely to die from alcoholism than females.

A total of 382 deaths were directly due to alcoholism and related disorders, with alcoholic liver disease accounting for the majority (62%). In addition, alcohol-related diseases were reported as contributing to another 288 deaths. [Table 6-35]. Alcoholism often led to early death; one-half of all those who died from it died by age 57.

During 1997, Oregon's age-adjusted death rate was 48 percent higher than the nation's, and ranked fifth among the 50 states and District of Columbia. For no other leading cause of death, did Oregon's rate rank higher.<sup>6</sup> A non-injury alcohol-caused death occurred every 22.9 hours in Oregon during 1997.

## ARTERIOSCLEROSIS

The arteriosclerosis death rate continued its long-term downward trend in 1997, falling to yet another record low. The rate (7.4 per 100,000 population) is now less than half of what was in 1987. (In that year, arteriosclerosis was the seventh leading killer of Oregonians; a decade later, it ranked twelfth. [Table 6-23].) Nonetheless, in 1997, Oregon's age-adjusted death rate was 14 percent higher than the U.S. rate.

Women typically bear the greater risk, and that was so in 1997; their death rate was 8.4, compared to 6.3 for men. [Table 6-2]. An Oregonian died from arteriosclerosis every 1.5 days in 1997. Note, however, that these figures do not include all deaths involving arteriosclerosis, since many have been classified under more specific manifestations of cardiac and cerebral disease. Arteriosclerosis was listed as the underlying cause of death for 237 Oregonians but contributed to the deaths of another 965 residents.

## PARKINSON'S DISEASE

For the first time since 1992, the Parkinson's disease death rate declined, falling to 6.7 per 100,000 population. [Table 6-3]. Even so, the rate was 63 percent higher than it was in 1987. As usual, Oregon men were more likely than women to die from this disease; the rates were 7.5 and 5.8, respectively. [Table 6-2]. A small number of middle-aged residents died from Parkinson's disease, but more than four-fifths of the deaths occurred to residents 75 or older. [Table 6-6]. For additional information, see *Oregon Health Trends*, Number 52.

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***One half of all  
alcoholism deaths  
occurred by age 58.***

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***The arteriosclerosis death rate again fell to a record low.***

The state's 1996 age-adjusted death rate for this cause was the highest in the nation, but with the decline in the number of deaths during 1997, Oregon ranked eleventh highest with the rate 28 percent higher than the nation's. The 214 deaths in 1997 represent the loss of an Oregonian every 1.7 days.

**HOMICIDE**

Continuing a recent trend, the homicide rate declined for the third straight year. By 1997, Oregonians were a third less likely to be a homicide victim than they were during 1994 (4.1 per 100,000 population compared to 6.0). The highest rate ever recorded (6.8) occurred in 1986. [Table 6-3]. Six of the 131 homicide deaths resulted from legal intervention. [Table 6-17].

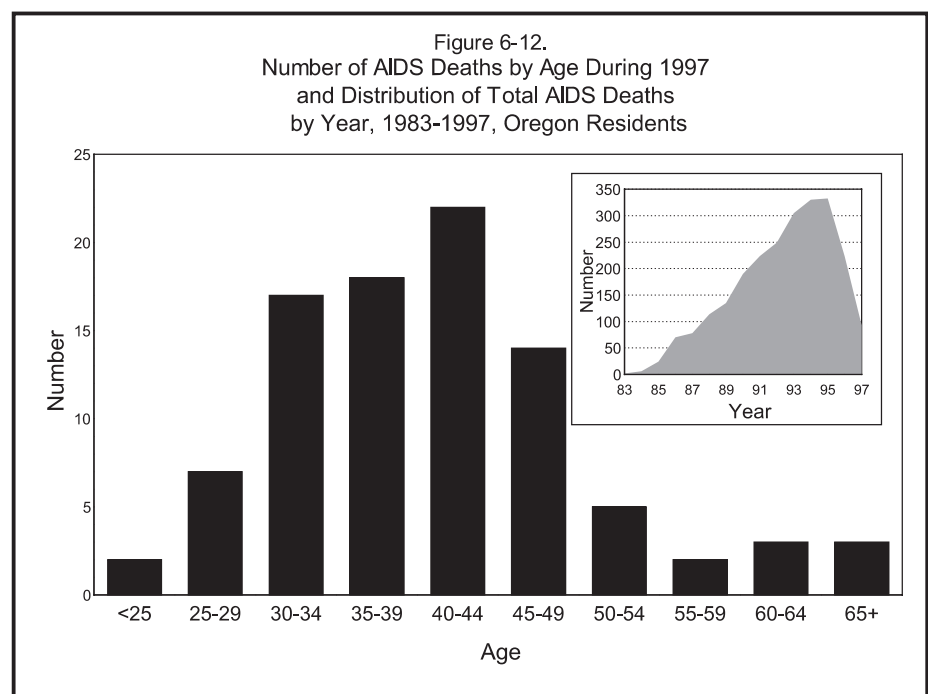
Males were more apt to be murdered than females; their death rate was over three times higher, 6.2 compared to 2.0. [Table 6-2]. Even the youngest Oregonians were at risk: nine children who had not yet reached their fifth birthday were murdered during 1997, and four of these were infants. The median age at death was 34 years. [Figure 6-11; Table 6-13]. Firearms were used in 60 percent of all homicides; most were handguns. [Table 6-17].

Oregonians have long been at less risk of being murdered than the average U.S. resident. In 1997, Oregon's age-adjusted homicide rate was 46 percent lower than the nation's. Even so, an Oregonian was murdered every 2.8 days in 1997.

**AIDS**

For the second year in a row, the AIDS death rate fell dramatically, declining from 7.1 per 100,000 population to 2.9. This is the lowest rate recorded since 1987. Since 1994, when a record high

***During the last three years, the homicide rate has fallen by a third.***



rate of 10.7 was recorded, the death rate has fallen 73 percent. [Table 6-3]. Much of this decline can be attributed to the powerful new AIDS drug “cocktails” that are saving lives. Patients now commonly receive more than one anti-retroviral drug plus a protease inhibitor.

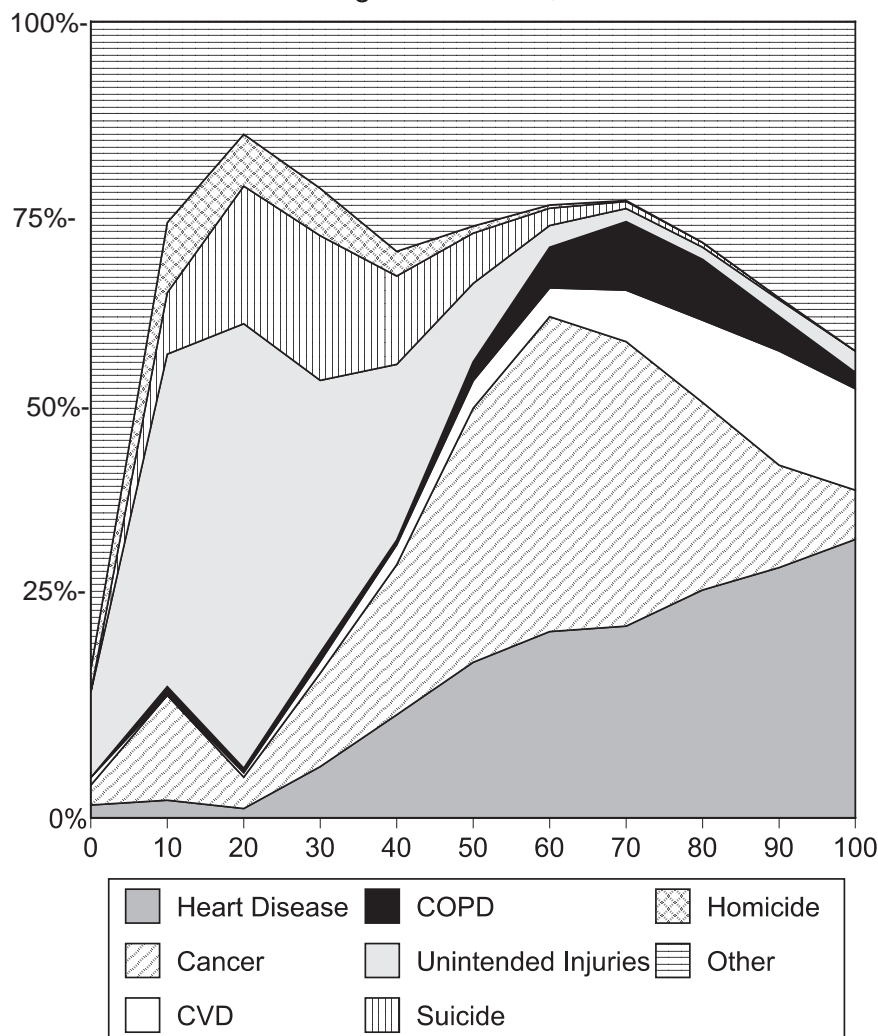
Nearly all (81 or 87%) of the decedents during 1997 were males, but 12 were females. [Table 6-6]. Most deaths (69%) occurred among Oregonians 25 to 44 years old, but the youngest to die was just 21 years old. AIDS was the second leading cause of death among Oregon men 25-44 years old for much of the 1990s but no longer ranks among the top five leading causes of death. [Table 6-4]. Moreover, the median age at death has risen to its highest level ever: 41 years. [Table 6-13]. In addition to the 93 deaths directly due

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***The AIDS death rate has fallen to a level not seen since 1987.***

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Figure 6-13.  
Percentage of Deaths by Cause and Age  
Oregon Residents, 1997

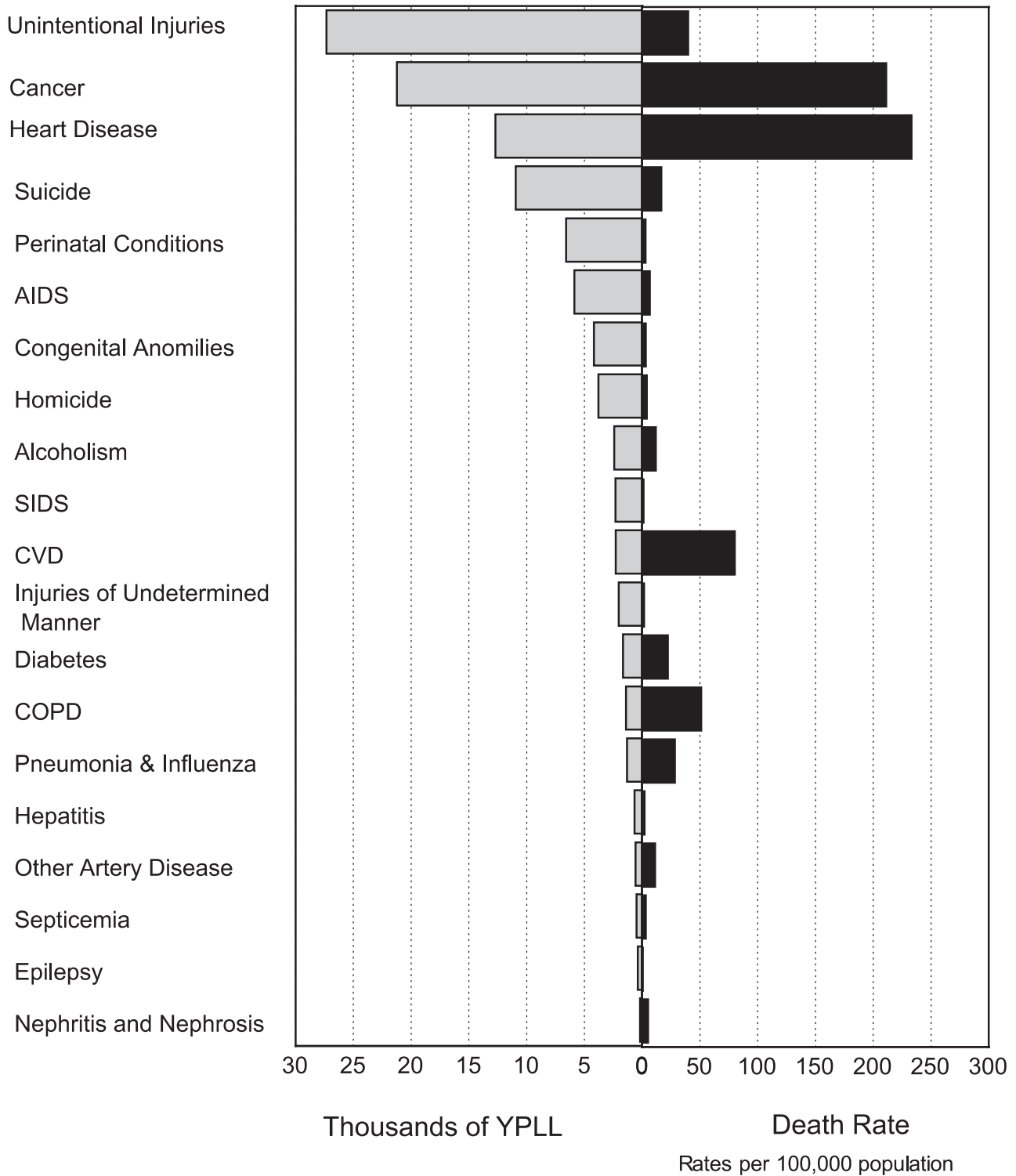



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***The oldest Oregonian to die in 1997 was a 108 year old woman who died from a cerebral thrombosis.***

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Figure 6-14.  
 Leading Causes of Years of Potential Lost Before  
 Age 65 and Corresponding Death Rates,  
 Oregon Residents, 1997



to AIDS, the human immunodeficiency virus was reported to have contributed to another 13 deaths. [Table 6-35].

The age-adjusted death rates in Table 6-42 illustrate that Oregonians were 61 percent less likely to die from AIDS during 1997 than were Americans as a whole. An Oregonian died from AIDS every 3.9 days in 1997.

## YEARS OF POTENTIAL LIFE LOST

Mortality rates alone do not show the full impact upon society of certain causes of death. The deaths of young people are a greater “cost” to society than deaths of older people in terms of years of potential life lost (YPLL).

The YPLL yardstick quantifies premature mortality occurring in younger age groups by measuring the number of years between age at death and a set standard. With the standard set at 65 years, for example, a death at age 21 results in 44 years lost. The numbers of YPLL among all decedents are then totaled. Figure 6-14 shows the disparity between death rates and the years of potential life lost. (In all references to YPLL in this report, that standard is 65 years unless otherwise noted.)

## ENDNOTES

- 1 Comparisons between Oregon and the U.S. are based on 1997 age-adjusted rates; see Table 6-42 and the Technical Notes for comments on age-adjusted rates. Oregon’s population is older vis-a-vis the U.S. population. Rates are adjusted to the U.S. standard million. All other rates are crude rates (i.e., the number of deaths divided by the population, times 100,000.).
- 2 These and subsequent heart disease rates do not include alcoholic cardiomyopathy deaths, which are included in the alcoholism category. The totals for heart disease, including alcoholic cardiomyopathy, are given in Tables 6-6, 6-7, 6-10, and 6-32 through 6-33.
- 3 Unintentional injuries is preferred to the term accidents (ICD E800-E949) among health professionals.

### *More Oregonians Cremated Than Ever Before*

For the first time, more than half of all Oregon decedents were cremated. The method of disposal of remains varied by gender, age, race, education and region of the state. Oregon’s cremation rate was the fifth highest among the states. For further information on this topic, see *Oregon Health Trends*, No.53, available on the Internet at <http://www.ohd.hr.state.or.us/cdpe/chs/newsltr/oh53/als53.pdf>.

For further information on death in Oregon, see our web site at: <http://www.ohd.hr.state.or.us/cdpe/chs/death.htm>

- 4 Note that this figure, unlike those presented in Annual Reports prior to 1993, is based on the number of fatal injuries occurring at work [Table 6-14] rather than the National Safety Council classification system [Tables 6-15 and 6-30].
- 5 This complex of diseases includes alcoholic psychosis, alcoholic dependence syndrome, alcoholic gastritis, alcoholic cardiomyopathy, alcoholic polyneuropathy, and alcoholic liver disease.
- 6 This disparity may be partially explained by the death certificate query program administered by the Oregon Center for Health Statistics: When a cause suggestive of alcoholism is listed on the death certificate, the certifying physician is queried about the role of alcohol in the decedent's death. About ten percent of all death certificates are queried for additional information; the role of alcohol in a death is just one of the reasons prompting a query.

**TABLE 6-1.**  
**Age-specific Death Rates by Sex, Oregon Residents,**  
**1940, 1950, 1960, 1970, 1980, 1985, 1990-1997**

Year and Sex	Total	Age Groups					
		0-4	5-14	15-24	25-44	45-64	65+
<b>1940 Deaths</b>	1,131.4	953.9	116.6	199.1	317.7	1,322.7	7,154.3
Male	1,336.2	1,122.6	140.5	267.4	374.5	1,650.8	7,831.0
Female	912.7	788.1	91.9	130.4	258.2	944.7	6,395.2
<b>1950 Deaths</b>	912.9	588.1	61.7	148.2	242.0	1,105.7	5,836.7
Male	1,097.2	459.9	74.1	226.0	317.4	1,411.4	6,619.2
Female	722.6	515.6	48.7	73.0	166.0	711.9	5,025.0
<b>1960 Deaths</b>	949.1	566.3	42.5	107.0	210.5	1,053.1	5,796.9
Male	1,141.2	640.3	53.3	158.4	273.3	1,420.3	6,854.2
Female	758.9	489.7	31.2	58.3	149.9	679.0	4,838.8
<b>1970 Deaths</b>	933.8	411.4	42.9	134.4	184.4	1,015.1	5,617.3
Male	1,107.6	437.8	56.5	198.9	241.7	1,375.4	6,893.0
Female	767.2	383.9	28.7	74.4	128.7	670.2	4,607.6
<b>1980 Deaths</b>	826.4	310.7	31.9	115.8	140.8	870.8	4,977.2
Male	931.8	333.9	36.9	167.8	193.4	1,157.4	6,013.3
Female	724.1	286.1	26.7	63.6	87.5	602.9	4,209.3
<b>1985 Deaths</b>	890.4	233.2	21.0	97.7	141.5	830.0	5,074.7
Male	976.5	260.5	27.7	150.6	193.1	1,067.4	6,053.4
Female	807.2	204.8	14.0	42.9	90.0	605.9	4,362.1
<b>1990 Deaths</b>	880.7	212.6	21.4	94.5	142.2	730.3	4,784.6
Male	935.6	234.0	21.6	138.1	203.6	934.1	5,617.0
Female	827.8	190.1	21.3	49.1	80.9	553.8	4,202.8
<b>1991 Deaths</b>	851.0	176.3	21.0	95.6	136.4	677.3	4,710.8
Male	901.7	204.0	23.6	142.0	195.5	843.0	5,450.2
Female	802.1	147.4	18.2	47.2	77.2	517.6	4,215.1
<b>1992 Deaths</b>	863.2	166.6	23.8	82.3	143.3	658.2	4,862.4
Male	895.6	198.1	26.7	118.3	202.6	792.5	5,486.6
Female	831.7	133.2	20.9	44.6	84.0	528.1	4,407.2
<b>1993 Deaths</b>	908.4	163.2	24.1	82.9	166.4	660.7	5,104.8
Male	952.6	184.1	29.6	126.0	235.7	811.1	5,789.9
Female	865.5	141.2	18.4	37.7	97.0	514.9	4,602.7
<b>1994 Deaths</b>	887.8	154.4	22.2	79.3	176.4	654.1	4,916.9
Male	915.1	180.4	27.9	113.0	253.9	784.4	5,453.1
Female	861.3	126.9	16.3	44.0	99.2	527.1	4,525.0
<b>1995 Deaths</b>	900.1	143.4	21.6	92.2	175.3	638.4	5,018.8
Male	925.0	147.1	23.1	127.6	249.9	777.3	5,549.9
Female	875.8	139.4	20.2	55.0	100.6	503.0	4,629.1
<b>1996 Deaths</b>	908.5	134.0	24.2	87.9	169.7	615.4	5,143.2
Male	937.8	148.5	23.8	131.2	240.6	752.9	5,746.5
Female	880.1	118.8	24.6	42.4	98.8	481.2	4,703.9
<b>1997 Deaths</b>	893.7	137.2	20.1	79.3	150.8	604.2	5,111.7
Male	899.8	158.4	22.4	112.6	202.9	719.2	5,585.9
Female	887.7	113.5	17.7	44.3	98.7	491.9	4,764.2

All rates per 100,000 population within specific age groups.

**TABLE 6-2.**  
**Leading Causes of Death by Rank Order for**  
**Resident Males and Females, Oregon, 1997**

<b>Males</b>				
Rank	Cause of Death	Number	Rate	Percent
<b>Total</b>		14,269	899.8	100.0
1	Heart Disease	3,845	242.5	26.9
2	Cancer	3,522	222.1	24.7
3	Cerebrovascular Disease	996	62.8	7.0
4	Unintentional Injuries	857	54.0	6.0
5	Chronic Obstructive Pulmonary Disease	840	53.0	5.9
6	Suicide	419	26.4	2.9
7	Pneumonia and Influenza	389	24.5	2.7
8	Diabetes Mellitus	353	22.3	2.5
9	Alcoholic Disease	265	16.7	1.9
10	Alzheimer's Disease and Dementia	206	13.0	1.4
11	Other Diseases of the Arteries	202	12.7	1.4
12	Parkinson's Disease	119	7.5	0.8
13	Arteriosclerosis	100	6.3	0.7
14	Homicide	99	6.2	0.7
15	Hypertension With or Without Renal Disease	95	6.0	0.7
15	Congenital Anomalies	95	6.0	0.7
17	Nephritis and Nephrosis	89	5.6	0.6
18	AIDS	81	5.1	0.6
19	Perinatal Conditions	53	3.3	0.4
20	Septicemia	49	3.1	0.3
<b>Females</b>				
Rank	Cause of Death	Number	Rate	Percent
<b>Total</b>		14,481	887.7	100.0
1	Heart Disease	3,655	224.1	25.2
2	Cancer	3,268	200.3	22.6
3	Cerebrovascular Disease	1,586	97.2	11.0
4	Chronic Obstructive Pulmonary Disease	808	49.5	5.6
5	Pneumonia and Influenza	520	31.9	3.6
6	Alzheimer's Disease and Dementia	512	31.4	3.5
7	Diabetes Mellitus	463	28.4	3.2
8	Unintentional Injuries	424	26.0	2.9
9	Other Diseases of the Arteries	163	10.0	1.1
10	Arteriosclerosis	137	8.4	0.9
11	Hypertension With or Without Renal Disease	134	8.2	0.9
12	Suicide	119	7.3	0.8
13	Alcoholic Disease	117	7.2	0.8
14	Parkinson's Disease	95	5.8	0.7
15	Congenital Anomalies	79	4.8	0.5
16	Nephritis and Nephrosis	77	4.7	0.5
17	Septicemia	50	3.1	0.3
18	Perinatal Conditions	49	3.0	0.3
19	Gastrointestinal Ulcers	42	2.6	0.3
19	Hernia and Intestinal Obstruction	42	2.6	0.3

**TABLE 6-3.**  
**Selected Leading Causes of Death with Rates,**  
**Oregon Residents, 1979-1997**

Year	Total	Major Cardiovascular Disease			Malignant Neoplasms	Chronic Obstructive Pulmonary Disease	Pneumonia and Influenza	Diabetes Mellitus
		Diseases of the Heart <sup>1</sup>	Cerebrovascular Diseases	Arteriosclerosis				
Number of Deaths								
1979	21,024	7,329	2,041	444	4,608	728	608	285
1980	21,756	7,659	2,021	486	4,625	829	704	297
1981	21,798	7,639	1,986	509	4,839	856	609	303
1982	21,594	7,601	1,901	482	4,859	912	609	297
1983	22,361	7,910	2,021	470	4,943	971	634	329
1984	23,101	8,010	1,919	431	5,387	957	725	343
1985	23,824	8,192	2,000	432	5,410	1,097	838	317
1986	23,328	7,788	1,926	417	5,272	1,090	742	328
1987	24,181	7,936	1,958	440	5,594	1,233	743	395
1988	24,557	7,662	2,010	378	5,801	1,203	900	439
1989	24,679	7,482	2,006	355	5,819	1,272	924	450
1990	25,073	7,482	1,912	332	6,056	1,304	966	483
1991	24,935	7,139	2,004	307	6,268	1,353	791	540
1992	25,714	7,255	2,138	314	6,362	1,273	841	575
1993	27,596	7,652	2,202	341	6,622	1,595	1,014	642
1994	27,361	7,417	2,394	300	6,599	1,469	885	662
1995	28,190	7,529	2,483	298	6,824	1,460	899	705
1996	28,900	7,676	2,632	256	6,784	1,676	946	739
1997	28,750	7,500	2,582	237	6,790	1,648	909	816
Rates								
1979	826.4	288.1	80.2	17.5	181.1	28.6	23.9	11.2
1980	826.2	290.9	76.8	18.5	175.7	31.5	26.7	11.3
1981	819.3	287.1	74.6	19.1	181.9	32.2	22.9	11.4
1982	813.0	286.2	71.6	18.1	182.9	34.3	22.9	11.2
1983	848.6	300.2	76.7	17.8	187.6	36.9	24.1	12.5
1984	868.5	301.1	72.1	16.2	202.5	36.0	27.3	12.9
1985	890.4	306.2	74.7	16.1	202.2	41.0	31.3	11.8
1986	877.2	292.8	72.4	15.7	198.2	41.0	27.9	12.3
1987	898.9	295.0	72.8	16.4	208.0	45.8	27.6	14.7
1988	895.9	279.5	73.3	13.8	211.6	43.9	32.8	16.0
1989	884.2	268.1	71.9	12.7	208.5	45.6	33.1	16.1
1990	880.7	262.8	67.2	11.7	212.7	45.8	33.9	17.0
1991	851.0	243.7	68.4	10.5	213.9	46.2	27.0	18.4
1992	863.2	243.8	71.8	10.5	213.6	42.7	28.2	19.3
1993	908.4	251.9	72.5	11.2	218.0	52.5	33.4	21.1
1994	887.8	240.7	77.7	9.7	214.1	47.7	28.7	21.5
1995	900.1	240.4	79.3	9.5	217.9	46.6	28.7	22.5
1996	908.5	241.3	82.7	8.0	213.3	52.7	29.7	23.2
1997	893.7	233.1	80.3	7.4	211.1	51.2	28.3	25.4

1. Excludes Alcoholic Cardiomyopathy.

Rates per 100,000 population.

**TABLE 6-3.**  
**Selected Leading Causes of Death with Rates,**  
**Oregon Residents, 1979-1997 (Continued)**

Year	Alcoholism <sup>1</sup>	Alzheimer's Disease	Parkinson's Disease	Acquired Immune Deficiency Syndrome	External Causes			
					Unintentional Injuries	Suicide	Homicide <sup>2</sup>	Firearms (Any Manner)
Number of Deaths								
1979	368	15	55	-	1,367	351	113	320
1980	358	28	78	-	1,319	388	145	354
1981	385	30	81	-	1,285	398	118	337
1982	308	61	67	-	1,064	396	146	338
1983	337	114	75	2	1,156	417	112	352
1984	343	154	99	6	1,185	423	135	360
1985	308	200	104	24	1,207	417	123	325
1986	325	245	102	70	1,184	450	181	383
1987	311	309	111	78	1,185	400	164	348
1988	330	344	131	114	1,190	461	152	375
1989	334	355	130	135	1,151	459	146	391
1990	334	386	147	190	1,115	456	112	382
1991	306	462	144	224	1,013	460	132	363
1992	320	488	139	249	1,032	492	168	420
1993	363	550	169	305	1,185	472	148	392
1994	352	599	193	330	1,187	525	186	447
1995	358	688	232	333	1,293	526	158	439
1996	419	740	236	223	1,295	533	152	430
1997	382	718	214	93	1,281	538	131	428
Rates								
1979	14.5	0.6	2.2	0.0	53.7	13.8	4.4	12.6
1980	13.6	1.1	3.0	0.0	50.1	14.7	5.5	13.4
1981	14.5	1.1	3.0	0.0	48.3	15.0	4.4	12.7
1982	11.6	2.3	2.5	0.0	40.1	14.9	5.5	12.7
1983	12.8	4.3	2.8	0.1	43.9	15.8	4.3	13.4
1984	12.9	5.8	3.7	0.2	44.5	15.9	5.1	13.5
1985	11.5	7.5	3.9	0.9	45.1	15.6	4.6	12.1
1986	12.2	9.2	3.8	2.6	44.5	16.9	6.8	14.4
1987	11.6	11.5	4.1	2.9	44.1	14.9	6.1	12.9
1988	12.0	12.6	4.8	4.2	43.4	16.8	5.5	13.7
1989	12.0	12.7	4.7	4.8	41.2	16.4	5.2	14.0
1990	11.7	13.6	5.2	6.7	39.2	16.0	3.9	13.4
1991	10.4	15.8	4.9	7.6	34.6	15.7	4.5	12.4
1992	10.7	16.4	4.7	8.4	34.6	16.5	5.6	14.1
1993	11.9	18.1	5.6	10.0	39.0	15.5	4.9	12.9
1994	11.4	19.4	6.3	10.7	38.5	17.0	6.0	14.5
1995	11.4	22.0	7.4	10.6	41.3	16.8	5.0	14.0
1996	13.2	23.3	7.4	7.0	40.7	16.8	4.8	13.5
1997	11.9	22.3	6.6	2.9	39.8	16.7	4.1	13.3

- Quantity is zero. All rates per 100,000 population.

1 Includes alcoholic liver disease, alcoholic gastritis, alcoholic polyneuropathy, alcoholic cardiomyopathy, and alcoholic psychosis.

2 Includes legal intervention.

**TABLE 6-4.**  
**The Five Principal Causes of Death by Age, Oregon Residents, 1997**

Cause of Death	Both Sexes		Rate <sup>1</sup>	
	Number	Percent	Male	Female
<b>All Ages</b>				
<b>All Causes</b>	28,750	100.0	899.8	887.7
1 Diseases of the Heart	7,500	26.1	242.5	224.1
2 Malignant Neoplasms	6,790	23.6	222.1	200.3
3 Cerebrovascular Disease	2,582	9.0	62.8	97.2
4 Chronic Obstructive Pulmonary Disease	1,648	5.7	53.0	49.5
5 Unintentional Injuries	1,281	4.5	54.0	26.0
<b>Under 1 Year<sup>2</sup></b>				
<b>All Causes</b>	256	100.0	664.8	502.3
1 Congenital Anomalies	65	25.4	161.7	134.9
2 SIDS	36	14.1	103.3	60.5
3 Immaturity	29	11.3	49.4	83.7
4 Other Perinatal Conditions	21	8.2	53.9	41.9
5 Conditions of the Placenta & Cord	13	5.1	35.9	23.3
<b>1-4 Years</b>				
<b>All Causes</b>	61	100.0	41.5	23.1
1 Unintentional Injuries	26	42.6	17.6	9.9
2 Malignant Neoplasms	7	11.5	6.2	1.1
3 Congenital Anomalies	6	9.8	4.1	2.2
4 Homicide	5	8.2	2.1	3.3
5 Diseases of the Heart	3	4.9	2.1	1.1
<b>5-14 Years</b>				
<b>All Causes</b>	91	100.0	22.4	17.7
1 Unintentional Injuries	38	41.8	9.9	6.8
2 Malignant Neoplasms	12	13.2	3.0	2.3
3 Homicide	8	8.8	2.2	1.4
4 Suicide	7	7.7	1.7	1.4
5 Congenital Anomalies	5	5.5	0.4	1.8
<b>10-19 Years</b>				
<b>All Causes</b>	216	100.0	62.9	31.7
1 Unintentional Injuries	116	53.7	36.2	14.5
2 Suicide	31	14.4	9.0	4.5
3 Malignant Neoplasms	16	7.4	3.0	4.1
4 Homicide	11	5.1	3.9	0.9
5 Congenital Anomalies	8	3.7	1.7	1.8
<b>15-24 Years</b>				
<b>All Causes</b>	353	100.0	112.6	44.3
1 Unintentional Injuries	197	55.8	64.8	22.6
2 Suicide	61	17.3	21.0	6.0
3 Homicide	23	6.5	8.8	1.4
4 Malignant Neoplasms	14	4.0	2.6	3.7
5 Congenital Anomalies	7	2.0	2.6	0.5

<sup>1</sup> Rates per 100,000 population except where noted.

<sup>2</sup> Rates per 100,000 live births.

**TABLE 6-4.**  
**The Five Principal Causes of Death by Age, Oregon Residents, 1997**  
**(Continued)**

Cause of Death	Both Sexes		Rate <sup>1</sup>	
	Number	Percent	Male	Female
<b>25-34 Years</b>				
<b>All Causes</b>	468	100.0	152.4	66.0
1 Unintentional Injuries	160	34.2	60.2	14.3
2 Suicide	85	18.2	32.0	7.6
3 Malignant Neoplasms	55	11.8	11.1	14.7
4 Diseases of the Heart	30	6.4	8.3	5.7
5 Homicide	28	6.0	10.7	2.4
<b>35-44 Years</b>				
<b>All Causes</b>	966	100.0	244.7	124.8
1 Unintentional Injuries	213	22.0	65.0	16.6
2 Malignant Neoplasms	182	18.8	27.3	42.0
3 Diseases of the Heart	125	12.9	34.2	13.6
4 Suicide	107	11.1	32.7	8.3
5 Alcoholic Diseases	57	5.9	16.2	5.7
<b>45-54 Years</b>				
<b>All Causes</b>	1,696	100.0	467.5	300.4
1 Malignant Neoplasms	541	31.9	115.3	129.4
2 Diseases of the Heart	331	19.5	109.4	40.6
3 Unintentional Injuries	167	9.8	59.5	16.2
4 Suicide	107	6.3	33.6	14.9
5 Alcoholic Diseases	91	5.4	26.8	14.4
<b>55-64 Years</b>				
<b>All Causes</b>	2,534	100.0	1151.6	812.4
1 Malignant Neoplasms	1,003	39.6	400.5	374.5
2 Diseases of the Heart	592	23.4	322.3	138.9
3 Chronic Obstructive Pulmonary Disease	130	5.1	52.1	48.3
4 Alcoholic Diseases	102	4.0	57.7	21.9
5 Unintentional Injuries	69	2.7	36.3	17.4
<b>65-74 Years</b>				
<b>All Causes</b>	5,392	100.0	2873.0	1871.0
1 Malignant Neoplasms	1,927	35.7	998.8	692.0
2 Diseases of the Heart	1,297	24.1	786.3	370.6
3 Chronic Obstructive Pulmonary Disease	464	8.6	232.4	173.4
4 Cerebrovascular Disease	348	6.5	166.0	137.0
5 Diabetes	205	3.8	95.8	82.3
<b>75+ Years</b>				
<b>All Causes</b>	16,933	100.0	9192.6	7670.7
1 Diseases of the Heart	5,114	30.2	2839.7	2276.6
2 Malignant Neoplasms	3,048	18.0	2008.8	1157.4
3 Cerebrovascular Disease	2,048	12.1	899.1	1062.0
4 Chronic Obstructive Pulmonary Disease	1,000	5.9	630.5	397.7
5 Influenza and Pneumonia	748	4.4	382.1	354.0

<sup>1</sup> Rates per 100,000 population except where noted.

**TABLE 6-5.**  
**Deaths by Marital Status, Sex, and Age, Oregon Residents, 1997**

Marital Status and Sex	Total	Age at Death							
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49
<b>Total</b>	28,750	408	162	191	214	254	395	571	774
Male	14,269	240	113	144	158	171	261	375	492
Female	14,481	168	49	47	56	83	134	196	282
<b>Single</b>	2,361	407	160	156	124	119	122	145	110
Male	1,497	239	113	120	99	89	103	109	76
Female	864	168	47	36	25	30	19	36	34
<b>Married</b>	12,053	-	2	24	67	85	163	234	386
Male	8,193	-	-	19	45	49	88	137	233
Female	3,860	-	2	5	22	36	75	97	153
<b>Widowed</b>	10,597	-	-	2	-	2	4	8	19
Male	2,578	-	-	1	-	1	1	5	9
Female	8,019	-	-	1	-	1	3	3	10
<b>Divorced</b>	3,647	-	-	8	22	44	103	175	254
Male	1,926	-	-	3	13	28	66	117	170
Female	1,721	-	-	5	9	16	37	58	84
<b>Unknown</b>	92	1	-	1	1	4	3	9	5
Male	75	1	-	1	1	4	3	7	4
Female	17	-	-	-	-	-	-	2	1

Marital Status and Sex	Age at Death								
	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90+
<b>Total</b>	922	1,082	1,452	2,182	3,210	4,120	4,794	4,167	3,852
Male	538	620	838	1,293	1,736	2,194	2,327	1,684	1,085
Female	384	462	614	889	1,474	1,926	2,467	2,483	2,767
<b>Single</b>	98	49	78	107	124	133	154	137	138
Male	71	34	52	77	81	86	67	52	29
Female	27	15	26	30	43	47	87	85	109
<b>Married</b>	492	636	875	1,324	1,794	2,131	2,036	1,251	553
Male	277	379	542	884	1,192	1,502	1,484	926	436
Female	215	257	333	440	602	629	552	325	117
<b>Widowed</b>	26	73	158	325	809	1,432	2,238	2,536	2,965
Male	9	17	44	79	199	399	616	628	570
Female	17	56	114	246	610	1,033	1,622	1,908	2,395
<b>Divorced</b>	301	317	337	410	469	414	360	240	193
Male	176	183	197	238	255	200	155	77	48
Female	125	134	140	172	214	214	205	163	145
<b>Unknown</b>	5	7	4	16	14	10	6	3	3
Male	5	7	3	15	9	7	5	1	2
Female	-	-	1	1	5	3	1	2	1

- Quantity is zero.

TABLE 6-6.  
Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1997

9TH Rev.	Cause of Death	Age Groups											
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+
All Causes	Male	28,750	256	61	91	353	468	966	1,696	2,534	5,392	4,120	12,813
	Female	14,269	148	40	52	257	329	636	1,030	1,458	3,029	2,194	5,096
		14,481	108	21	39	96	139	330	666	1,076	2,363	1,926	7,717
I. Infective and Parasitic Disease	Male	376	9	3	2	2	29	57	54	32	60	43	85
	Female	228	8	2	1	1	21	44	42	19	33	24	33
		148	1	1	1	1	8	13	12	13	27	19	52
010-018, 137	Male	10	-	-	-	-	-	1	-	2	1	-	6
	Female	3	-	-	-	-	-	-	-	1	-	-	2
		7	-	-	-	-	-	1	-	1	-	-	4
038	Male	99	-	-	-	-	1	1	6	10	24	19	38
	Female	49	-	-	-	-	-	3	3	14	14	12	17
		50	-	-	-	-	1	3	7	10	7	7	21
042-044	Male	93	-	-	-	2	24	40	19	5	2	-	1
	Female	81	-	-	-	1	19	36	18	4	2	-	1
		12	-	-	-	1	5	4	1	-	-	-	-
070	Male	62	-	-	-	-	-	12	21	7	12	4	6
	Female	41	-	-	-	-	-	6	19	5	7	3	1
		21	-	-	-	-	-	6	2	2	5	1	5
Residual of 001-139	Male	112	9	3	2	-	4	3	8	8	21	20	34
	Female	54	8	2	1	-	2	2	2	6	10	9	12
		58	1	1	1	-	2	1	6	2	11	11	22
II. Neoplasms	Male	6,874	1	9	12	14	55	185	547	1,009	1,940	1,129	1,973
	Female	3,554	1	6	7	6	24	72	258	511	1,059	613	997
		3,320	-	3	5	8	31	113	289	498	881	516	976
140-208	Male	6,790	1	7	12	14	55	182	541	1,003	1,927	1,117	1,931
	Female	3,522	1	6	7	6	24	71	254	507	1,053	608	985
		3,268	-	1	5	8	31	111	287	496	874	509	946
140-149	Male	123	-	-	-	-	2	4	12	19	35	17	34
	Female	64	-	-	-	-	-	3	7	10	21	7	16
		59	-	-	-	-	2	1	5	9	14	10	18
150-159	Male	1,443	-	-	1	2	5	28	111	189	408	214	485
	Female	765	-	-	1	1	4	14	62	124	233	113	213
		678	-	-	-	1	1	14	49	65	175	101	272

- Quantity is zero.

\* ICD-9 is an acronym for "International Classification of Diseases, 9th Revision" published by the World Health Organization, 1977, Geneva, Switzerland.

TABLE 6-6. Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)

ICD* 9TH Rev.	Cause of Death	Age Groups											
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+
150	Esophagus	144	-	-	-	-	-	1	10	32	46	21	34
		117	-	-	-	-	-	-	10	31	36	16	24
151	Stomach	27	-	-	-	-	1	-	-	1	10	5	10
		116	-	-	-	-	3	2	11	10	36	17	37
153	Large Intestine (Exc. Rectum)	72	-	-	-	-	2	7	8	24	9	20	
		44	-	-	-	-	1	-	4	2	12	8	17
154	Rectum	539	-	-	-	1	1	9	36	66	130	78	218
		268	-	-	-	1	1	5	17	41	69	44	90
157	Pancreas	271	-	-	-	-	4	19	25	61	34	128	
		119	-	-	-	-	1	2	15	24	28	8	41
160-165	Respiratory/Intrathoracic Organs	61	-	-	-	-	1	5	14	17	5	19	
		58	-	-	-	-	-	2	10	10	11	3	22
162.2-.9	Bronchus & Lung	328	-	-	-	-	6	21	33	110	59	99	
		141	-	-	-	-	2	13	16	52	22	36	
170-175	Bone, Connective Tissue, Skin & Breast	187	-	-	-	-	4	8	17	58	37	63	
		2,101	-	-	-	1	1	33	136	397	702	383	448
172	Malignant Melanoma	1,229	-	-	-	-	13	79	222	430	229	254	
		872	-	-	-	-	-	20	57	175	272	154	194
173	Other Skin	2,038	-	-	-	-	32	131	389	686	372	427	
		1,182	-	-	-	-	1	13	74	217	418	220	239
174-175	Breast	856	-	-	-	-	19	57	172	268	152	188	
		687	-	1	3	1	18	40	109	138	158	77	142
175	Breast	112	-	-	1	1	6	18	21	23	16	24	
		575	-	1	2	-	16	34	91	117	135	61	118
176	Breast	101	-	-	-	-	4	8	20	19	11	19	
		58	-	-	-	-	1	4	13	14	10	10	
177	Breast	43	-	-	-	-	3	4	6	9	5	9	
		31	-	1	-	-	-	-	4	3	5	13	
178	Breast	20	-	-	-	-	-	3	1	4	3	9	
		11	-	1	-	-	-	-	1	2	1	4	
179	Breast	487	-	-	-	-	9	29	108	115	50	97	
		3	-	-	-	-	-	-	-	1	1	-	
180	Breast	484	-	-	-	-	9	29	108	114	49	97	
		3	-	-	-	-	-	-	-	1	1	-	

- Quantity is zero.

\* ICD-9 is an acronym for "International Classification of Diseases, 9th Revision," published by the World Health Organization, 1977, Geneva, Switzerland.

TABLE 6-6. Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)

9TH Rev.	Cause of Death	Total	Age Groups										
			< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+
179-187	Genital Organs	812	-	-	-	-	6	16	41	59	237	138	315
	Male	485	-	-	-	3	4	5	18	130	85	240	
	Female	327	-	-	-	3	12	36	41	107	53	75	
179-182	Cervix & Uterus	129	-	-	-	-	1	6	20	12	40	21	29
	Male	-	-	-	-	-	-	-	-	-	-	-	-
	Female	129	-	-	-	1	6	20	12	40	21	29	
180	Cervix Uteri	58	-	-	-	-	5	17	5	14	10	7	7
	Male	-	-	-	-	-	-	-	-	-	-	-	-
	Female	58	-	-	-	5	17	5	14	10	7	7	
182	Uterus	30	-	-	-	-	-	2	5	13	3	7	7
	Male	-	-	-	-	-	-	-	-	-	-	-	-
	Female	30	-	-	-	-	-	2	5	13	3	7	
183.0	Ovary	176	-	-	-	-	2	6	15	28	57	29	39
	Male	-	-	-	-	-	-	-	-	-	-	-	-
	Female	176	-	-	-	2	6	15	28	57	29	39	
185	Prostate	475	-	-	-	-	-	2	4	17	129	83	240
	Male	475	-	-	-	-	-	2	4	17	129	83	240
	Female	-	-	-	-	-	-	-	-	-	-	-	-
188-189	Urinary Organs	308	-	-	-	-	-	3	18	35	85	61	106
	Male	200	-	-	-	-	2	13	22	58	43	62	62
	Female	108	-	-	-	-	1	5	13	27	18	44	44
188	Bladder	163	-	-	-	-	-	2	10	15	36	33	67
	Male	119	-	-	-	-	2	6	13	30	23	45	45
	Female	44	-	-	-	-	-	4	2	6	10	22	22
190-199	Other & Unspecified Sites	576	1	3	5	3	11	26	56	81	134	87	169
	Male	291	1	3	3	1	8	15	33	41	68	47	71
	Female	285	-	-	2	2	3	11	23	40	66	40	98
191	Brain	182	1	1	5	3	7	14	27	27	45	26	26
	Male	101	1	1	3	1	5	10	17	11	25	15	12
	Female	81	-	-	2	2	2	4	10	16	20	11	14
200-208	Lymphatic & Hematopoietic Tissues	740	-	3	3	7	12	32	58	85	168	140	232
	Male	376	-	3	2	2	6	14	37	49	90	68	105
	Female	364	-	-	1	5	6	18	21	36	78	72	127
202.8	Lymphoma	263	-	-	-	1	16	16	16	32	60	53	85
	Male	125	-	-	-	1	5	12	19	24	24	22	42
	Female	138	-	-	-	-	11	4	13	36	36	31	43

- Quantity is zero.

\* ICD-9 is an acronym for "International Classification of Diseases, 9th Revision," published by the World Health Organization, 1977, Geneva, Switzerland.

**TABLE 6-6. Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

9TH Rev.	Cause of Death	Total	Age Groups										
			< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+
203.0	Multiple Myeloma	146	-	-	-	-	-	3	11	16	40	26	50
	Male	86	-	-	-	-	-	2	8	12	23	20	21
	Female	60	-	-	-	-	1	3	4	17	6	29	
204-208	Leukemia	282	-	3	3	6	8	8	22	34	58	59	81
	Male	141	-	3	2	1	4	2	12	17	38	24	38
	Female	141	-	-	1	5	4	6	10	17	20	35	43
204	Lymphatic Leukemia	80	-	1	-	1	2	1	5	11	22	11	26
	Male	44	-	1	-	-	1	1	4	4	14	6	14
	Female	36	-	-	1	1	2	-	1	7	8	5	12
205	Myeloid Leukemia	147	-	2	2	4	4	6	15	18	30	36	30
	Male	77	-	2	1	1	2	1	7	10	21	16	16
	Female	70	-	-	1	3	2	5	8	8	9	20	14
210-229	Benign Neoplasms	19	-	1	-	-	-	2	-	2	2	3	9
	Male	5	-	-	-	-	-	-	-	1	2	-	2
	Female	14	-	1	-	-	-	2	-	1	-	3	7
230-239	In Situ, Uncertain Behavior & Unspecified Nature Neoplasms	65	-	1	-	-	-	1	6	4	11	9	33
	Male	27	-	-	-	-	-	1	4	3	4	5	10
	Female	38	-	1	-	-	-	-	2	1	7	4	23
III. Endocrine, Nutritional, and Metabolic Diseases		1,088	5	-	3	7	14	24	78	114	257	176	410
	Male	471	2	-	2	2	7	15	45	49	126	76	147
	Female	617	3	-	1	5	7	9	33	65	131	100	263
250 Diabetes Mellitus		816	-	-	-	2	8	13	60	87	205	144	297
	Male	353	-	-	-	-	3	7	33	38	101	62	109
	Female	463	-	-	-	2	5	6	27	49	104	82	188
Residual of 240-279 Other Endocrine, Nutritional, & Metabolic Diseases		272	5	-	3	5	6	11	18	27	52	32	113
	Male	118	2	-	2	2	4	8	12	11	25	14	38
	Female	154	3	-	1	3	2	3	6	16	27	18	75
IV. Diseases of the Blood-forming Organs		120	1	1	-	-	3	3	9	4	21	22	56
	Male	50	1	1	-	-	3	1	3	1	10	12	18
	Female	70	-	-	-	-	-	2	6	3	11	10	38

- Quantity is zero.

\* ICD-9 is an acronym for "International Classification of Diseases, 9th Revision," published by the World Health Organization, 1977, Geneva, Switzerland.

**TABLE 6-6. Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

ICD* 9TH Rev.	Cause of Death	Age Groups											
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+
280-285	Anemias	35	-	1	-	-	1	1	2	-	2	5	23
	Male	14	-	1	-	-	1	-	1	-	1	3	7
	Female	21	-	-	-	-	-	1	1	-	1	2	16
Residual of 280-289	Other Diseases of the Blood-forming Organs	85	1	-	-	-	2	2	7	4	19	17	33
	Male	36	1	-	-	-	2	1	2	1	9	9	11
	Female	49	-	-	-	-	-	1	5	3	10	8	22
V. Mental Disorders		1,059	-	-	-	5	12	43	30	59	82	113	715
	Male	427	-	-	-	4	5	33	25	48	45	60	207
	Female	632	-	-	-	1	7	10	5	11	37	53	508
290.1	Alzheimer's Dementia	300	-	-	-	-	-	-	-	2	17	38	243
	Male	89	-	-	-	-	-	-	-	1	9	15	64
	Female	211	-	-	-	-	-	-	-	1	8	23	179
291	Alcoholic Psychosis	5	-	-	-	-	-	-	-	-	3	-	2
	Male	3	-	-	-	-	-	-	-	-	2	-	1
	Female	2	-	-	-	-	-	-	-	-	1	-	1
303	Alcoholism	123	-	-	-	2	3	18	23	43	20	10	4
	Male	98	-	-	-	2	1	12	18	37	16	8	4
	Female	25	-	-	-	-	2	6	5	6	4	2	-
304	Drug Dependence	22	-	-	-	2	5	13	2	-	-	-	-
	Male	18	-	-	-	2	2	12	2	-	-	-	-
	Female	4	-	-	-	-	3	1	-	-	-	-	-
305	Non-dependent Drug Abuse	31	-	-	-	-	4	7	3	6	6	3	2
	Male	23	-	-	-	-	2	7	3	5	3	2	1
	Female	8	-	-	-	-	2	-	-	1	3	1	1
Residual of 290-319	Other Mental Disorders	578	-	-	-	1	-	5	2	8	36	62	464
	Male	196	-	-	-	-	-	2	2	5	15	35	137
	Female	382	-	-	-	1	-	3	-	3	21	27	327
IV. Diseases of the Nervous System & Sense Organs		937	3	4	8	11	3	18	34	40	125	143	548
	Male	390	1	4	4	9	3	11	16	23	63	67	189
	Female	547	2	-	4	2	-	7	18	17	62	76	359

- Quantity is zero.

\* ICD-9 is an acronym for "International Classification of Diseases, 9th Revision," published by the World Health Organization, 1977, Geneva, Switzerland.

**TABLE 6-6. Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

9TH Rev.	Cause of Death	Age Groups														
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+			
320-322	Meningitis	9	2	-	-	-	-	-	-	-	-	1	-	-	3	1
	Male	6	1	-	-	-	-	-	-	-	-	1	-	-	2	1
	Female	3	1	-	-	-	-	-	-	-	-	-	-	-	1	-
331.0	Alzheimer's Disease	418	-	-	-	-	-	-	-	-	-	3	25	46	57	332
	Male	117	-	-	-	-	-	-	-	-	-	2	10	30	15	89
	Female	301	-	-	-	-	-	-	-	-	-	1	15	16	42	243
332	Parkinson's Disease	214	-	-	-	-	-	-	-	-	-	2	29	46	46	137
	Male	119	-	-	-	-	-	-	-	-	-	1	22	30	30	66
	Female	95	-	-	-	-	-	-	-	-	-	1	7	16	16	71
345	Epilepsy	18	-	1	-	5	2	4	2	2	2	-	2	2	1	1
	Male	14	-	1	-	5	2	4	2	2	2	-	2	2	1	-
	Female	4	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Residual of 320-389	Other Disease of the Blood-forming Organs	278	1	3	8	6	11	32	34	69	77	34	36	36	36	77
	Male	134	-	3	4	4	5	16	19	30	33	19	19	19	19	33
	Female	144	1	-	4	2	6	16	15	39	44	15	17	17	17	44
VII. Diseases of the Circulatory System		10,966	5	3	2	8	154	416	748	1,798	6,157	748	1,636	1,636	1,636	6,157
	Male	5,263	4	2	1	4	104	289	505	1,101	2,328	505	903	903	903	2,328
	Female	5,703	1	1	1	4	50	127	243	697	3,829	243	733	733	3,829	3,829
390-448	Major Cardiovascular Diseases	10,924	5	3	2	8	39	411	745	1,791	6,140	745	1,628	1,628	1,628	6,140
	Male	5,247	4	2	1	4	22	288	504	1,097	2,323	504	900	900	900	2,323
	Female	5,677	1	1	1	4	17	123	241	694	3,817	241	728	728	3,817	3,817
390-398, 402, 404-429	Diseases of the Heart	7,511	2	3	2	4	30	333	595	1,300	3,979	595	1,138	1,138	1,138	3,979
	Male	3,854	2	2	1	3	18	89	410	831	1,982	410	673	673	673	1,982
	Female	3,657	-	1	1	1	12	90	185	469	2,397	185	465	465	2,397	2,397
390-398	Rheumatic Fever & Chronic Rheumatic Heart Disease	80	-	-	-	-	-	2	7	16	43	7	12	12	12	43
	Male	25	-	-	-	-	-	2	3	2	13	3	5	5	5	13
	Female	55	-	-	-	-	-	-	4	14	30	4	7	7	7	30
402, 404	Hypertensive Heart Disease With or Without Renal Disease	254	-	-	-	-	3	8	15	31	168	15	29	29	29	168
	Male	102	-	-	-	-	2	8	11	20	46	11	15	15	15	46
	Female	152	-	-	-	-	1	-	4	11	122	4	14	14	14	122

- Quantity is zero.

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**TABLE 6-6.**  
**Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

ICD* 9TH Rev.	Cause of Death	Age Groups											
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+
410-414	Ischemic Heart Disease	4,861	-	-	1	1	10	66	242	435	938	798	2,370
	Male	2,732	-	-	-	1	7	52	185	322	628	508	1,029
	Female	2,129	-	-	1	-	3	14	57	113	290	1,341	
410	Myocardial Infarction	1,845	-	-	-	-	6	16	80	196	311	837	
	Male	1,039	-	-	-	-	3	11	59	141	191	367	
	Female	806	-	-	-	-	3	5	21	55	120	470	
411	Other Acute & Subacute Ischemic Heart Disease	3	-	-	-	-	-	-	-	1	-	2	
	Male	1	-	-	-	-	-	-	-	-	-	1	
	Female	2	-	-	-	-	-	-	-	1	-	1	
412-414	Chronic Ischemic Heart Disease	3,013	-	-	1	1	4	50	162	238	487	1,531	
	Male	1,692	-	-	-	1	4	41	126	181	317	661	
	Female	1,321	-	-	1	-	-	9	36	57	170	870	
415-429	All Other Forms	2,316	2	3	1	3	20	56	81	138	315	1,398	
	Male	995	2	2	-	2	11	35	48	74	181	494	
	Female	1,321	-	1	-	1	9	21	33	64	154	904	
401, 403	Hypertension	229	-	-	-	-	-	1	6	12	34	145	
	Male	95	-	-	-	-	-	-	6	5	18	50	
	Female	134	-	-	-	-	-	1	-	7	16	95	
430-438	Cerebrovascular Disease	2,582	3	-	-	2	7	24	59	91	363	1,685	
	Male	996	2	-	-	1	3	11	33	58	158	555	
	Female	1,586	1	-	-	1	4	13	26	33	205	1,130	
430	Subarachnoid Hemorrhage	99	-	-	-	1	3	12	18	13	25	18	
	Male	29	-	-	-	1	1	6	7	2	6	5	
	Female	70	-	-	-	-	2	6	11	11	19	13	
431-432	Intracerebral & Intracranial Hemorrhages	304	-	-	-	-	3	9	23	25	66	114	
	Male	135	-	-	-	-	2	4	14	14	33	42	
	Female	169	-	-	-	-	1	5	9	11	33	72	
434	Cerebral Thrombosis & Embolism	279	-	-	-	-	-	-	1	3	30	212	
	Male	113	-	-	-	-	-	-	1	3	16	79	
	Female	166	-	-	-	-	-	-	-	-	14	133	
436	Acute but Ill-defined Cerebrovascular Disease	1,504	-	-	-	-	1	1	14	37	196	1,045	
	Male	554	-	-	-	-	-	-	9	28	103	323	
	Female	950	-	-	-	-	1	1	5	9	93	722	

- Quantity is zero.

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**TABLE 6-6. Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

9TH Rev.	Cause of Death	Age Groups											
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+
437	Generalized Ischemic Cerebrovascular Disease	189	3	-	-	1	-	1	3	7	15	21	138
	Male	84	2	-	-	-	-	1	2	6	8	13	52
	Female	105	1	-	-	1	-	-	1	1	7	8	86
440	Arteriosclerosis	237	-	-	-	-	-	-	-	9	31	30	167
	Male	100	-	-	-	-	-	-	-	8	20	14	58
	Female	137	-	-	-	-	-	-	-	1	11	16	109
441-448	Other Diseases of the Arteries, Arterioles, and Capillaries	365	-	-	-	2	2	2	13	38	78	66	164
	Male	202	-	-	-	1	1	2	6	23	53	39	78
	Female	163	-	-	-	2	1	-	7	15	25	27	86
441	Aortic Aneurysm	223	-	-	-	2	1	2	7	25	52	42	92
	Male	137	-	-	-	1	1	2	4	18	36	27	49
	Female	86	-	-	-	2	-	-	3	7	16	15	43
451-453	Venous Thrombosis & Embolism	20	-	-	-	-	-	1	5	2	2	3	7
	Male	5	-	-	-	-	-	1	1	1	-	1	1
	Female	15	-	-	-	-	-	-	4	1	2	2	6
Residual of 390-459	Other Diseases of the Circulatory System	22	-	-	-	-	-	1	-	1	5	5	10
	Male	11	-	-	-	-	-	1	-	-	4	2	4
	Female	11	-	-	-	-	-	-	-	1	1	3	6
VIII. Diseases of the Respiratory System		2,883	6	2	1	5	9	19	68	173	614	494	1,492
	Male	1,397	3	-	1	3	7	12	34	92	322	253	670
	Female	1,486	3	2	-	2	2	7	34	81	292	241	822
480-487	Pneumonia & Influenza	909	5	1	-	3	4	11	15	29	93	100	648
	Male	389	3	-	-	2	4	7	5	17	48	51	252
	Female	520	2	1	-	1	-	4	10	12	45	49	396
480-486	Pneumonia	889	4	1	-	3	4	10	15	29	92	99	632
	Male	381	3	-	-	2	4	6	5	17	48	50	246
	Female	508	1	1	-	1	-	4	10	12	44	49	386
487	Influenza	20	1	-	-	-	-	1	-	-	1	1	16
	Male	8	-	-	-	-	-	1	-	-	-	1	6
	Female	12	1	-	-	-	-	-	-	-	-	-	10

- Quantity is zero.

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TABLE 6-6.  
Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)

ICD* 9TH Rev.	Cause of Death	Age Groups												
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+	
490-496	Chronic Obstructive Pulmonary Disease & Allied Conditions	Male	1,648	-	-	1	2	5	6	40	130	464	340	660
		Female	840	-	-	1	1	3	3	21	66	245	170	330
			808	-	-	1	2	3	19	64	219	170	330	
490-491	Chronic & Unspecified Bronchitis	Male	52	-	-	-	-	-	1	3	13	9	26	
		Female	26	-	-	-	-	-	1	1	8	4	12	
			26	-	-	-	-	-	-	2	5	5	14	
492	Emphysema	Male	344	-	-	-	-	1	7	32	116	74	114	
		Female	181	-	-	-	-	-	3	17	63	44	54	
			163	-	-	-	-	1	4	15	53	30	60	
493	Asthma	Male	87	-	-	1	2	3	5	14	13	12	27	
		Female	37	-	-	1	1	2	3	7	4	4	11	
			50	-	-	1	1	1	2	7	9	8	16	
494	Bronchiectasis	Male	20	-	-	-	-	-	-	-	5	1	14	
		Female	5	-	-	-	-	-	-	-	3	3	2	
			15	-	-	-	-	-	-	-	2	1	12	
496	Chronic Airway Obstruction Not Elsewhere Classified (COPD)	Male	1,143	-	-	-	-	2	-	18	317	243	478	
		Female	589	-	-	-	-	1	-	10	167	117	250	
			554	-	-	-	1	-	8	41	150	126	228	
Residual of 460-519	Other Diseases of the Respiratory System	Male	328	1	1	-	-	2	13	14	57	55	185	
		Female	170	-	-	-	-	2	8	9	29	33	89	
			158	1	1	-	-	-	5	5	28	22	96	
IX. Diseases of the Digestive System	Diseases of the Digestive System	Male	959	5	-	1	2	9	55	102	115	183	100	387
		Female	445	5	-	1	1	4	38	62	64	86	46	138
			514	-	-	-	1	5	17	40	97	54	249	
531	Ulcer of the Stomach	Male	32	-	-	-	-	-	-	-	8	4	12	
		Female	15	-	-	-	-	-	-	-	4	5	4	
			17	-	-	-	-	-	-	4	3	2	8	
532	Ulcer of the Duodenum	Male	23	-	-	-	-	1	-	1	2	2	17	
		Female	12	-	-	-	-	-	-	1	2	2	8	
			11	-	-	-	-	1	-	-	-	1	9	

- Quantity is zero.

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**TABLE 6-6. Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

9TH Rev.	Cause of Death	Age Groups											
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+
533	Peptic Ulcer	24	-	-	-	-	-	1	1	4	2	3	13
	Male	10	-	-	-	-	-	1	2	1	1	2	3
	Female	14	-	-	-	-	-	-	2	3	1	1	10
550-553, 560	Hernia & Intestinal Obstruction	66	1	-	-	-	-	-	3	-	5	7	50
	Male	24	1	-	-	-	-	-	1	-	3	2	17
	Female	42	-	-	-	-	-	-	2	-	2	5	33
571	Cirrhosis of the Liver	302	-	-	-	6	42	71	63	71	24	25	25
	Male	174	-	-	-	3	32	42	38	38	16	5	5
	Female	128	-	-	-	3	10	29	25	33	8	20	20
571-0.3	Alcoholic Cirrhosis of the Liver	237	-	-	-	6	38	65	55	53	14	6	6
	Male	152	-	-	-	3	29	38	34	33	11	4	4
	Female	85	-	-	-	3	9	27	21	20	3	2	2
574-576	Diseases of the Gallbladder	60	-	-	-	-	3	3	1	11	8	34	34
	Male	26	-	-	-	-	2	2	1	2	4	15	15
	Female	34	-	-	-	-	1	1	-	9	4	19	19
577	Diseases of the Pancreas	27	-	-	-	-	1	4	6	6	1	9	9
	Male	14	-	-	-	-	1	3	2	5	-	3	3
	Female	13	-	-	-	-	-	1	4	1	1	6	6
Residual of 520-579	Other Diseases of the Digestive System	425	4	-	1	2	8	19	33	78	51	227	227
	Male	170	4	-	1	1	2	12	17	30	19	83	83
	Female	255	-	-	-	1	6	7	16	48	32	144	144
	<b>X. Diseases of the Genitourinary System</b>	380	-	-	-	2	9	14	16	38	54	247	247
	Male	154	-	-	-	1	3	7	10	15	26	92	92
	Female	226	-	-	-	1	6	7	6	23	28	155	155
580-589	Nephritis & Nephrosis	166	-	-	-	2	7	7	10	18	28	94	94
	Male	89	-	-	-	1	3	5	7	8	16	49	49
	Female	77	-	-	-	1	4	2	3	10	12	45	45
590	Infections of the Kidney	11	-	-	-	-	1	-	-	2	1	7	7
	Male	2	-	-	-	-	-	-	-	-	-	2	2
	Female	9	-	-	-	-	1	-	-	2	1	5	5
599.0	Urinary Tract Infection	140	-	-	-	-	1	3	2	7	14	113	113
	Male	34	-	-	-	-	-	-	1	4	5	24	24
	Female	106	-	-	-	-	1	3	1	3	9	89	89

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**TABLE 6-6.**  
**Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

9TH REV.	Cause of Death	Age Groups													
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+		
600-608	Disease of the Male Genital Organs	Male	12	-	-	-	-	-	-	-	-	-	1	3	8
		Female	12	-	-	-	-	-	-	-	-	-	1	3	8
614-629	Diseases of the Uterus & Other Female Genital Organs	Male	7	-	-	-	-	-	1	1	2	-	2	-	3
		Female	7	-	-	-	-	-	1	1	2	-	2	-	3
Residual of 580-629	Other Diseases of the Genitourinary System	Male	44	-	-	-	-	-	3	3	8	8	8	8	22
		Female	17	-	-	-	-	-	2	2	2	2	2	2	9
630-676	XI. Complications of Pregnancy, Childbirth, & the Puerperium	Male	5	-	-	-	2	3	-	-	-	-	-	-	-
		Female	5	-	-	-	2	3	-	-	-	-	-	-	-
680-709	XII. Diseases of the Skin & Subcutaneous Tissue	Male	37	-	-	-	-	1	2	3	3	1	3	1	26
		Female	8	-	-	-	-	1	1	2	-	-	-	-	4
710-739	XIII. Musculoskeletal System & Connective Tissue Diseases	Male	29	-	-	-	-	-	1	1	1	3	3	1	22
		Female	189	-	-	-	-	2	4	10	16	28	26	26	103
745-746	XIV. Congenital Anomalies	Male	46	-	-	-	-	-	2	3	9	9	9	9	22
		Female	143	-	-	-	-	2	7	15	19	19	17	17	81
745-746	Congenital Anomalies of the Heart	Male	174	65	6	5	7	7	10	8	12	14	14	17	23
		Female	95	36	4	1	6	3	4	3	9	8	9	9	12
745-746	Other Congenital Anomalies	Male	79	29	2	4	1	4	6	5	3	6	6	8	11
		Female	41	17	4	2	3	2	5	1	-	1	1	2	4
Residual of 740-759	Other Congenital Anomalies	Male	27	14	2	-	2	1	2	1	-	1	1	1	3
		Female	14	3	2	2	1	1	3	-	-	-	-	1	1
Residual of 740-759	Other Congenital Anomalies	Male	133	48	2	3	4	5	5	7	12	13	13	15	19
		Female	68	22	2	1	4	2	2	2	9	7	7	8	9
		Female	65	26	-	2	-	3	3	5	3	6	6	7	10

- Quantity is zero.

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**TABLE 6-6. Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

ICD* 9TH Rev.	Cause of Death	Age Groups														
		< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+				
760-779	<b>XV. Perinatal Conditions</b>	102	1	1	1	1	-	-	-	-	-	-	-	-	-	-
	Male	53	1	1	-	-	-	-	-	-	-	-	-	-	-	-
	Female	49	-	-	1	-	-	-	-	-	-	-	-	-	-	-
797	<b>XVI. Symptoms &amp; Ill-defined Conditions</b>	601	1	2	4	2	13	23	57	85	75	298				
	Male	278	1	-	1	1	11	17	30	58	34	100				
	Female	323	-	2	3	1	2	6	27	27	41	198				
798.0	<b>Senility</b>	30	-	-	-	-	-	-	-	2	-	28				
	Male	8	-	-	-	-	-	-	-	1	-	7				
	Female	22	-	-	-	-	-	-	-	1	-	21				
798.0	<b>Sudden Infant Death Syndrome</b>	36	-	-	-	-	-	-	-	-	-	-				
	Male	23	-	-	-	-	-	-	-	-	-	-				
	Female	13	-	-	-	-	-	-	-	-	-	-				
Residual of 780-799	<b>Other Symptoms &amp; Ill-defined Conditions</b>	535	1	2	4	2	13	23	57	83	75	270				
	Male	247	1	-	1	1	11	17	30	57	34	93				
	Female	288	-	2	3	1	2	6	27	26	41	177				
800-949	<b>XVII. Accidents, Poisoning, &amp; Violence</b>	2,000	16	54	285	278	371	301	136	144	91	293				
	Male	1,410	11	33	220	227	286	225	94	94	62	139				
	Female	590	5	21	65	51	85	76	42	50	29	154				
810-949	<b>Accidents</b>	1,281	8	38	197	160	213	167	69	90	68	245				
	Male	857	5	17	148	130	169	131	46	50	41	97				
	Female	424	3	9	49	30	44	36	23	40	27	148				
810-825	<b>Motor Vehicle Accidents</b>	543	1	20	152	79	84	75	38	37	16	30				
	Male	379	1	12	112	59	64	56	22	18	11	17				
	Female	164	-	8	40	20	20	19	16	19	5	13				
830-838	<b>Water Transport Accidents</b>	18	-	-	4	4	6	2	-	1	1	-				
	Male	17	-	-	4	4	5	2	-	1	1	-				
	Female	1	-	-	-	-	1	-	-	-	-	-				
840-845	<b>Air Transport Accidents</b>	17	-	-	5	4	3	2	1	-	1	1				
	Male	15	-	-	3	4	3	2	1	-	1	1				
	Female	2	-	-	2	-	-	-	-	-	-	-				
850-869	<b>Poisoning Accidents</b>	173	-	1	8	37	73	45	5	2	-	2				
	Male	141	-	-	4	32	61	38	4	1	-	1				
	Female	32	-	1	4	5	12	7	1	-	-	1				

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**TABLE 6-6.  
Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

9TH Rev.	Cause of Death	Age Groups											
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+
880-888	Accidental Falls	266	-	1	1	3	5	8	13	7	28	31	169
	Male	112	-	1	1	2	5	7	7	3	15	14	57
	Female	154	-	-	-	1	-	1	6	4	17	112	
890-899	Fire & Flame Accidents	40	-	4	5	2	6	5	2	3	6	1	6
	Male	22	-	2	3	1	3	3	2	2	4	-	2
	Female	18	-	2	2	1	3	2	-	1	2	1	4
910	Drowning & Submersion	66	1	6	8	8	13	9	6	4	1	4	6
	Male	53	1	4	4	8	11	7	4	4	1	4	5
	Female	13	-	2	4	-	2	2	2	-	-	-	1
950-959	Suicides	538	-	-	7	61	85	107	107	55	48	22	46
	Male	419	-	-	4	48	69	85	74	40	38	21	40
	Female	119	-	-	3	13	16	22	33	15	10	1	6
960-978	Homicides	131	4	5	8	23	28	30	15	10	6	1	1
	Male	99	4	2	5	20	23	22	10	6	6	-	1
	Female	32	-	3	3	3	5	8	5	4	-	1	-
980-989	Injuries Undetermined Whether Accidentally or Purposely Inflicted	50	4	-	1	4	5	21	12	2	-	-	1
	Male	35	2	-	1	4	5	10	10	2	-	-	1
	Female	15	2	-	-	-	-	11	2	-	-	-	-
990-999	Injury Resulting From Operations of War	-	-	-	-	-	-	-	-	-	-	-	-
	Male	-	-	-	-	-	-	-	-	-	-	-	-
	Female	-	-	-	-	-	-	-	-	-	-	-	-

- Quantity is zero.

\* ICD-9 is an acronym for "International Classification of Diseases, 9th Revision" published by the World Health Organization, 1977, Geneva, Switzerland.

**TABLE 6-7.**  
**Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

9TH Rev.	Cause of Death	Age Groups												
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+	
150	Esophagus	Male	4.5	-	-	-	0.5	0.5	5.3	22.1	49.1	138.6	189.7	375.4
		Female	7.4	-	-	-	-	0.2	0.2	2.3	12.4	19.9	22.8	30.1
			1.7	-	-	-	-	-	4.5	24.7	34.1	41.1	59.4	
151	Stomach	Male	3.6	-	-	-	-	0.4	-	-	7.9	9.4	13.8	
		Female	4.5	-	-	-	0.7	0.4	2.5	3.9	15.5	18.4	32.8	
			2.7	-	-	-	0.5	-	1.8	1.5	9.5	15.0	23.5	
153	Large Intestine (Exc. Rectum)	Male	16.8	-	-	-	0.2	1.7	8.1	25.6	56.1	84.6	193.2	
		Female	16.9	-	-	-	0.4	1.9	7.7	32.6	65.4	113.0	222.9	
			16.6	-	-	-	-	1.5	8.6	18.9	48.3	63.8	176.7	
154	Rectum	Male	3.7	-	-	-	-	0.2	0.4	3.4	12.1	8.7	36.3	
		Female	3.8	-	-	-	0.5	-	2.3	11.1	16.1	12.8	47.1	
			3.6	-	-	-	-	0.8	4.5	7.5	8.7	5.6	30.4	
157	Pancreas	Male	10.2	-	-	-	-	1.1	4.8	12.8	47.5	64.0	87.7	
		Female	8.9	-	-	-	-	0.8	5.9	12.7	49.3	56.5	89.2	
			11.5	-	-	-	-	1.5	3.6	12.8	45.9	69.5	86.9	
160-165	Respiratory/Intrathoracic Organs	Male	65.3	-	-	-	0.2	6.3	30.8	153.8	302.9	415.5	397.1	
		Female	77.5	-	-	-	0.4	5.0	35.9	176.7	407.9	588.3	629.1	
			53.5	-	-	-	-	7.6	25.7	132.1	215.4	289.2	267.7	
162.2-9	Bronchus & Lung	Male	63.4	-	-	-	0.2	6.1	29.6	150.7	296.0	403.5	378.4	
		Female	74.5	-	-	-	0.5	5.0	33.6	172.8	396.5	565.1	592.0	
			52.5	-	-	-	-	7.2	25.7	129.9	212.2	285.4	259.5	
170-175	Bone, Connective Tissue, Skin & Breast	Male	21.4	-	0.5	0.7	0.2	4.2	7.6	24.7	53.5	68.2	125.9	
		Female	7.1	-	-	0.4	0.4	0.9	2.3	8.2	16.7	21.8	41.1	
			35.2	-	1.1	0.9	-	7.6	12.9	41.0	88.3	106.9	162.9	
172	Malignant Melanoma	Male	3.1	-	-	-	-	0.9	1.5	4.5	7.8	8.2	11.9	
		Female	3.7	-	-	-	-	0.5	1.5	5.9	11.1	9.5	15.4	
			2.6	-	-	-	1.4	1.5	3.2	4.5	7.1	9.4	12.4	
173	Other Skin	Male	1.0	-	0.5	-	-	-	-	0.9	1.2	2.2	5.4	
		Female	1.3	-	-	-	-	-	-	1.4	0.8	3.8	7.7	
			0.7	-	1.1	-	-	-	0.5	1.5	0.8	3.8	5.5	
174-175	Breast	Male	15.1	-	-	-	2.1	5.5	17.9	41.9	49.6	54.2	86.0	
		Female	0.2	-	-	-	-	-	0.5	-	0.9	2.6	-	
			29.7	-	-	-	4.3	11.0	35.2	81.5	90.3	92.0	133.9	

WARNING: Rates based on less than 5 events are unreliable.  
- Quantity is zero.

Rates per 100,000 population.

\* ICD is the acronym for "International Classification of Diseases," published by the World Health Organization, 1977, Geneva, Switzerland.

TABLE 6-7.  
Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)

9TH Rev.	Cause of Death	Age Groups												
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+	
150	Esophagus	Male	4.5	-	-	-	0.5	0.5	5.3	22.1	49.1	138.6	189.7	375.4
		Female	7.4	-	-	-	-	0.2	0.2	2.3	12.4	19.9	22.8	30.1
			1.7	-	-	-	-	-	4.5	24.7	34.1	41.1	59.4	
151	Stomach	Male	3.6	-	-	-	-	0.4	0.4	-	0.8	7.9	9.4	13.8
		Female	4.5	-	-	-	0.7	0.4	2.5	3.9	15.5	15.5	18.4	32.8
			2.7	-	-	-	0.5	-	1.8	1.5	9.5	15.0	23.5	
153	Large Intestine (Exc. Rectum)	Male	16.8	-	-	-	0.2	1.7	8.1	25.6	56.1	84.6	193.2	
		Female	16.9	-	-	-	0.4	1.9	7.7	32.6	65.4	113.0	222.9	
			16.6	-	-	-	-	1.5	8.6	18.9	48.3	63.8	176.7	
154	Rectum	Male	3.7	-	-	-	0.2	0.4	3.4	9.3	12.1	8.7	36.3	
		Female	3.8	-	-	-	0.5	-	2.3	11.1	16.1	12.8	47.1	
			3.6	-	-	-	-	0.8	4.5	7.5	8.7	5.6	30.4	
157	Pancreas	Male	10.2	-	-	-	-	1.1	4.8	12.8	47.5	64.0	87.7	
		Female	8.9	-	-	-	-	0.8	5.9	12.7	49.3	56.5	89.2	
			11.5	-	-	-	-	1.5	3.6	12.8	45.9	69.5	86.9	
160-165	Respiratory/Intrathoracic Organs	Male	65.3	-	-	-	0.2	6.3	30.8	153.8	302.9	415.5	397.1	
		Female	77.5	-	-	-	0.4	5.0	35.9	176.7	407.9	588.3	629.1	
			53.5	-	-	-	-	7.6	25.7	132.1	215.4	289.2	267.7	
162.2-9	Bronchus & Lung	Male	63.4	-	-	-	0.2	6.1	29.6	150.7	296.0	403.5	378.4	
		Female	74.5	-	-	-	0.5	5.0	33.6	172.8	396.5	565.1	592.0	
			52.5	-	-	-	-	7.2	25.7	129.9	212.2	285.4	259.5	
170-175	Bone, Connective Tissue, Skin & Breast	Male	21.4	-	0.5	0.7	0.2	7.6	24.7	53.5	68.2	83.5	125.9	
		Female	7.1	-	-	0.4	0.4	2.3	8.2	16.7	21.8	41.1	59.4	
			35.2	-	1.1	0.9	7.6	12.9	41.0	88.3	106.9	114.5	162.9	
172	Malignant Melanoma	Male	3.1	-	-	-	0.9	1.5	4.5	7.8	8.2	11.9	16.8	
		Female	3.7	-	-	-	0.5	1.5	5.9	11.1	9.5	15.4	24.8	
			2.6	-	-	-	1.4	1.5	3.2	4.5	7.1	9.4	12.4	
173	Other Skin	Male	1.0	-	0.5	-	-	-	0.9	1.2	2.2	5.4	11.5	
		Female	1.3	-	-	-	-	-	1.4	0.8	3.8	7.7	22.3	
			0.7	-	1.1	-	-	-	0.5	1.5	0.8	3.8	5.5	
174-175	Breast	Male	15.1	-	-	-	2.1	5.5	17.9	41.9	49.6	54.2	86.0	
		Female	0.2	-	-	-	-	-	0.5	-	0.9	2.6	-	
			29.7	-	-	-	4.3	11.0	35.2	81.5	90.3	92.0	133.9	

WARNING: Rates based on less than 5 events are unreliable.

- Quantity is zero.

Rates per 100,000 population.

\* ICD is the acronym for "International Classification of Diseases," published by the World Health Organization, 1977, Geneva, Switzerland.

TABLE 6-7. Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)

9TH Rev.	Cause of Death	Age Groups											
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+
179-187	Genital Organs	25.2	-	-	-	-	1.4	3.1	9.3	22.9	102.3	149.7	279.2
	Female	30.6	-	-	-	-	1.4	1.5	2.3	14.3	123.3	218.4	594.4
179-182	Cervix & Uterus	20.0	-	-	-	-	1.4	4.5	16.2	31.0	84.7	99.5	103.5
	Female	4.0	-	-	-	-	0.2	1.1	4.5	4.7	17.3	22.8	25.7
180	Cervix Uteri	7.9	-	-	-	-	0.5	2.3	9.0	9.1	31.7	39.4	40.0
	Female	1.8	-	-	-	-	-	1.0	3.8	1.9	6.0	10.8	6.2
182	Uterus	3.6	-	-	-	-	-	1.9	7.7	3.8	11.1	18.8	9.7
	Female	0.9	-	-	-	-	-	-	0.5	1.9	5.6	3.3	6.2
183	Ovary	1.8	-	-	-	-	-	-	0.9	3.8	10.3	5.6	9.7
	Female	5.5	-	-	-	-	0.5	1.1	3.4	10.9	24.6	31.5	34.6
185	Prostate	10.8	-	-	-	-	1.0	2.3	6.8	21.1	45.1	54.5	53.8
	Female	14.8	-	-	-	-	-	0.4	0.9	6.6	55.7	90.0	212.7
188-189	Urinary Organs	30.0	-	-	-	-	-	0.8	1.8	13.5	122.4	213.2	594.4
	Female	9.6	-	-	-	-	-	0.6	4.1	13.6	36.7	66.2	93.9
188	Bladder	12.6	-	-	-	-	-	0.8	5.9	17.5	55.0	110.5	153.6
	Female	6.6	-	-	-	-	-	0.4	2.3	9.8	21.4	33.8	60.7
190-199	Other & Unspecified Sites	5.1	-	-	-	-	-	0.4	2.3	5.8	15.5	35.8	59.4
	Female	7.5	-	-	-	-	-	0.8	2.7	10.4	28.5	59.1	111.5
191	Brain	2.7	-	-	-	-	-	-	1.8	1.5	4.8	18.8	30.4
	Female	17.9	2.3	1.6	1.1	0.7	2.6	5.0	12.7	31.4	57.8	94.4	149.8
200-208	Lymphatic & Hematopoietic Tissues	18.4	4.5	3.1	1.3	0.4	3.7	5.8	15.0	32.6	64.5	120.7	175.9
	Female	17.5	-	-	0.9	0.9	1.4	4.2	10.4	30.2	52.3	75.1	135.3
202.8	Lymphoma	5.7	2.3	0.5	1.1	0.7	1.6	2.7	6.1	10.5	19.4	28.2	23.0
	Female	6.4	4.5	1.0	1.3	0.4	2.3	3.8	7.7	8.8	23.7	38.5	29.7
202.8	Lymphoma	5.0	-	-	0.9	0.9	1.0	1.5	4.5	12.1	15.8	20.7	19.3
	Female	23.0	-	1.6	0.7	1.6	2.8	6.1	13.1	32.9	72.5	151.9	205.6
202.8	Lymphoma	23.7	-	3.1	0.9	0.9	2.8	5.4	16.8	39.0	86.4	174.7	260.1
	Female	22.3	-	-	0.5	2.3	2.9	6.8	9.5	27.2	61.8	135.2	175.3
202.8	Lymphoma	8.2	-	-	-	0.2	-	3.1	3.6	12.4	25.9	57.5	75.3
	Female	7.9	-	-	-	0.4	-	1.9	5.4	15.1	22.8	56.5	104.0
202.8	Lymphoma	8.5	-	-	-	-	-	4.2	1.8	9.8	28.5	58.2	59.3
	Female												

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- Quantity is zero.

Rates per 100,000 population.

\* ICD is the acronym for "International Classification of Diseases," published by the World Health Organization, 1977, Geneva, Switzerland.

**TABLE 6-7.**  
**Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

9TH Rev.	Cause of Death	Age Groups											
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+
203.0	Multiple Myeloma	Male	4.5	-	-	-	-	0.6	2.5	6.2	17.3	28.2	44.3
		Female	5.4	-	-	-	-	0.8	3.6	9.6	21.8	51.4	52.0
			3.7	-	-	-	0.4	1.4	3.0	13.5	11.3	40.0	
204-208	Leukemia	Male	8.8	-	1.6	0.7	1.9	1.5	5.0	13.2	25.0	64.0	71.8
		Female	8.9	-	3.1	0.9	1.9	0.8	5.4	13.5	36.0	61.7	94.1
			8.6	-	-	0.5	2.3	2.3	4.5	12.8	15.8	59.3	
204	Lymphatic Leukemia	Male	2.5	-	0.5	-	0.2	0.2	1.1	4.3	9.5	11.9	23.0
		Female	2.8	-	1.0	-	-	0.4	1.8	3.2	13.3	15.4	34.7
			2.2	-	-	-	1.0	-	0.5	5.3	9.4	16.6	
205	Myeloid Leukemia	Male	4.6	-	1.1	0.4	0.9	1.1	3.4	7.0	12.9	39.1	26.6
		Female	4.9	-	2.1	0.4	0.9	0.4	3.2	8.0	19.9	41.1	39.6
			4.3	-	-	0.5	1.4	1.9	3.6	6.0	7.1	19.3	
210-229	Benign Neoplasms	Male	0.6	-	0.5	-	-	0.4	-	0.8	0.9	3.3	8.0
		Female	0.3	-	-	-	-	-	-	0.8	1.9	-	5.0
			0.9	-	1.1	-	-	0.8	-	0.8	-	9.7	
230-239	In Situ, Uncertain Behavior & Unspecified Nature Neoplasms	Male	2.0	-	0.5	-	-	0.2	1.4	1.6	4.7	9.8	29.2
		Female	1.7	-	-	-	-	0.4	1.8	2.4	3.8	12.8	24.8
			2.3	-	1.1	-	-	-	0.9	0.8	5.5	31.7	
<b>III. Endocrine, Nutritional, and Metabolic Diseases</b>													
250	Diabetes Mellitus	Male	33.8	11.4	-	0.7	1.6	3.3	4.6	44.2	110.9	190.9	363.4
		Female	29.7	9.0	-	0.9	0.9	3.2	5.8	39.0	119.5	195.2	364.1
			37.8	13.9	-	0.5	2.3	3.3	3.4	49.1	103.7	363.0	
250	Diabetes Mellitus	Male	25.4	-	-	-	0.4	1.9	2.5	33.7	88.5	156.2	263.2
		Female	22.3	-	-	-	-	1.4	2.7	30.3	95.8	159.3	270.0
			28.4	-	-	-	0.9	2.4	2.3	37.0	82.3	259.5	
Residual of 240-279	Other Endocrine, Nutritional, & Metabolic Diseases	Male	8.5	11.4	-	0.7	1.1	1.4	2.1	10.5	22.4	34.7	100.1
		Female	7.4	9.0	-	0.9	0.9	1.9	3.1	8.8	23.7	36.0	94.1
			9.4	13.9	-	0.5	1.4	1.0	1.1	12.1	21.4	103.5	
<b>IV. Diseases of the Blood-forming Organs</b>													
250	Diseases of the Blood-forming Organs	Male	3.7	2.3	0.5	-	0.7	0.6	2.0	1.6	9.1	23.9	49.6
		Female	3.2	4.5	1.0	-	1.4	0.4	1.4	0.8	9.5	30.8	44.6
			4.3	-	-	-	-	0.8	2.7	2.3	8.7	52.4	

WARNING: Rates based on less than 5 events are unreliable.

- Quantity is zero.

Rate per 100,000 population.

\* ICD is the acronym for "International Classification of Diseases," published by the World Health Organization, 1977, Geneva, Switzerland.

**TABLE 6-7. Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

9TH Rev.	Cause of Death	Age Groups												
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+	
280-285	Anemias	1.1	-	0.5	-	-	0.2	0.2	0.5	-	0.9	0.9	5.4	20.4
	Male	0.9	-	1.0	-	-	0.5	-	0.5	-	0.9	0.9	7.7	17.3
	Female	1.3	-	-	-	-	-	0.4	0.5	-	0.8	0.8	3.8	22.1
Residual of 280-289	Other Diseases of the Blood-forming Organs	2.6	2.3	-	-	-	0.5	0.4	1.6	1.6	8.2	18.4	29.2	
	Male	2.3	4.5	-	-	-	0.9	0.4	0.9	0.8	8.5	23.1	27.2	
	Female	3.0	-	-	-	-	-	0.4	2.3	2.3	7.9	15.0	30.4	
V. Mental Disorders		32.9	-	-	-	1.1	2.8	8.2	6.8	22.9	35.4	122.6	633.7	
	Male	26.9	-	-	-	1.8	2.3	12.7	11.3	38.2	42.7	154.1	512.7	
	Female	38.7	-	-	-	0.5	3.3	3.8	2.3	8.3	29.3	99.5	701.1	
290.1	Alzheimer's Dementia	9.3	-	-	-	-	-	-	-	0.8	7.3	41.2	215.4	
	Male	5.6	-	-	-	-	-	-	-	0.8	8.5	38.5	158.5	
	Female	12.9	-	-	-	-	-	-	-	0.8	6.3	43.2	247.0	
291	Alcoholic Psychosis	0.2	-	-	-	-	-	-	-	-	1.3	-	1.8	
	Male	0.2	-	-	-	-	-	-	-	-	1.9	-	2.5	
	Female	0.1	-	-	-	-	-	-	-	-	0.8	-	1.4	
303	Alcoholism	3.8	-	-	-	0.4	0.7	3.4	5.2	16.7	8.6	10.8	3.5	
	Male	6.2	-	-	-	0.9	0.5	4.6	8.2	29.5	15.2	20.6	9.9	
	Female	1.5	-	-	-	-	1.0	2.3	2.3	4.5	3.2	3.8	-	
Drug Dependence		0.7	-	-	-	0.4	1.2	2.5	0.5	-	-	-	-	
	Male	1.1	-	-	-	0.9	0.9	4.6	0.9	-	-	-	-	
	Female	0.2	-	-	-	-	1.4	0.4	-	-	-	-	-	
Non-dependent Drug Abuse		1.0	-	-	-	-	0.9	1.3	0.7	2.3	2.6	3.3	1.8	
	Male	1.5	-	-	-	-	0.9	2.7	1.4	4.0	2.8	5.1	2.5	
	Female	0.5	-	-	-	-	1.0	-	-	0.8	2.4	1.9	1.4	
Residual of 290-319	Other Mental Disorders	18.0	-	-	-	0.2	-	1.0	0.5	3.1	15.5	67.3	411.2	
	Male	12.4	-	-	-	-	-	0.8	0.9	4.0	14.2	89.9	339.3	
	Female	23.4	-	-	-	0.5	-	1.1	-	2.3	16.6	50.7	451.3	
IV. Diseases of the Nervous System & Sense Organs		29.1	6.9	2.1	1.8	2.5	0.7	3.4	7.7	15.5	53.9	155.1	485.7	
	Male	24.6	4.5	4.1	1.7	3.9	1.4	4.2	7.3	18.3	59.8	172.1	468.1	
	Female	33.5	9.3	-	1.8	0.9	-	2.6	8.1	12.8	49.1	142.7	495.5	

WARNING: Rates based on less than 5 events are unreliable.

- Quantity is zero.

Rate per 100,000 population.

\* ICD is the acronym for "International Classification of Diseases," published by the World Health Organization, 1977, Geneva, Switzerland.

**TABLE 6-7.**  
**Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

9TH Rev.	Cause of Death	Age Groups											
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+
320-322	Meningitis	0.3	4.6	-	-	-	-	0.4	-	0.4	-	3.3	0.9
	Male	0.4	4.5	-	-	-	-	0.4	-	0.8	-	5.1	2.5
	Female	0.2	4.6	-	-	-	-	0.4	-	-	-	1.9	-
331.0	Alzheimer's Disease	13.0	-	-	-	-	-	0.2	-	1.2	10.8	61.8	294.2
	Male	7.4	-	-	-	-	-	0.4	-	1.6	9.5	38.5	220.4
	Female	18.5	-	-	-	-	-	-	-	0.8	11.9	78.9	335.4
332	Parkinson's Disease	6.7	-	-	-	-	-	-	-	0.8	12.5	49.9	121.4
	Male	7.5	-	-	-	-	-	-	-	0.8	20.9	77.1	163.5
	Female	5.8	-	-	-	-	-	-	-	0.8	5.5	30.0	98.0
345	Epilepsy	0.6	-	0.5	1.1	0.5	0.8	0.8	0.5	-	0.9	1.1	0.9
	Male	0.9	-	1.0	2.2	0.9	1.5	1.5	-	-	0.9	2.6	-
	Female	0.2	-	-	-	-	-	-	0.9	-	0.8	-	1.4
Residual of 320-389	Other Disease of the Blood-forming Organs	8.6	2.3	1.6	1.8	1.3	2.1	2.1	7.2	13.2	29.8	39.1	68.2
	Male	8.5	-	3.1	1.7	1.8	1.9	1.9	7.3	15.1	28.5	48.8	81.7
	Female	8.8	4.6	-	1.8	0.9	2.3	2.3	7.2	11.3	30.9	31.9	60.7
<b>VII.</b>	<b>Diseases of the Circulatory System</b>	340.9	11.4	1.6	0.4	1.8	9.1	29.4	94.1	289.9	775.9	1774.7	5456.8
	Male	331.9	18.0	2.1	0.4	1.8	10.2	40.0	131.2	402.1	1044.3	2319.7	5765.9
	Female	349.6	4.6	1.1	0.5	1.8	8.1	18.9	57.3	183.5	551.9	1376.4	5284.5
390-448	Major Cardiovascular Diseases	339.6	11.4	1.6	0.4	1.8	9.1	29.0	93.0	288.7	772.9	1766.1	5441.7
	Male	330.9	18.0	2.1	0.4	1.8	10.2	39.2	130.7	401.3	1040.5	2312.0	5753.6
	Female	348.0	4.6	1.1	0.5	1.8	8.1	18.9	55.5	182.0	549.5	1367.0	5268.0
390-398, 402,404- 429	Diseases of the Heart	233.5	4.6	1.6	0.4	0.9	7.0	23.8	75.3	230.6	561.0	1234.5	3526.5
	Male	243.0	9.0	2.1	0.4	1.3	8.3	34.2	110.3	326.4	788.2	1728.8	3918.3
	Female	224.2	-	1.1	0.5	0.5	5.7	13.6	40.6	139.7	371.4	873.2	3308.2
390-398	Rheumatic Fever & Chronic Rheumatic Heart Disease	2.5	-	-	-	-	-	-	0.5	2.7	6.9	13.0	38.1
	Male	1.6	-	-	-	-	-	-	0.9	2.4	1.9	12.8	32.2
	Female	3.4	-	-	-	-	-	-	-	3.0	11.1	13.1	41.4
402,404	Hypertensive Heart Disease With or Without Renal Disease	7.9	-	-	-	-	-	0.6	1.8	5.8	13.4	31.5	148.9
	Male	6.4	-	-	-	-	-	0.8	3.6	8.8	19.0	38.5	113.9
	Female	9.3	-	-	-	-	-	0.4	-	3.0	8.7	26.3	168.4

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- Quantity is zero.

Rates per 100,000 population.

\* ICD is the acronym for "International Classification of Diseases," published by the World Health Organization, 1977, Geneva, Switzerland.

TABLE 6-7. Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)

9TH Rev.	Cause of Death	Age Groups											
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+
410-414	Ischemic Heart Disease	Male	-	-	0.2	0.2	2.3	12.6	54.7	168.6	404.8	865.7	2,100.5
		Female	-	-	-	0.4	3.2	20.0	84.0	256.4	595.7	1,305.0	2,548.6
410	Myocardial Infarction	Male	-	-	-	-	3.1	18.1	76.0	172.2	337.4	741.8	1,850.8
		Female	-	-	-	-	4.2	26.8	112.3	253.2	490.6	909.0	648.7
411	Other Acute & Subacute Ischemic Heart Disease	Male	0.1	-	-	-	-	-	0.4	-	-	-	1.8
		Female	0.1	-	-	-	-	-	0.8	-	-	-	2.5
412-414	Chronic Ischemic Heart Disease	Male	93.7	-	0.2	0.2	0.9	9.5	36.6	92.2	232.6	528.3	1,356.9
		Female	106.7	-	-	0.4	1.9	15.8	57.2	144.1	342.4	814.3	1,637.2
415-429	All Other Forms	Male	81.0	-	0.5	-	3.4	16.2	43.0	106.1	140.9	319.2	1,200.7
		Female	72.0	4.6	1.6	0.2	0.7	10.7	18.3	53.5	135.9	324.4	1,239.0
401,403	Hypertension	Male	62.7	9.0	2.1	0.4	5.1	13.5	21.8	58.9	171.7	372.5	1,223.5
		Female	81.0	-	1.1	-	4.3	7.9	14.9	48.3	106.1	289.2	1,247.6
430-438	Cerebrovascular Disease	Male	7.1	-	-	-	0.2	1.4	4.7	14.7	33.6	128.5	1,493.4
		Female	6.0	-	-	-	-	2.7	4.0	17.1	41.1	123.8	1,374.6
430	Subarachnoid Hemorrhage	Male	8.2	-	-	-	0.4	-	5.3	12.7	28.2	131.1	1,559.5
		Female	80.3	6.9	-	-	0.4	4.6	13.3	35.3	150.2	393.8	1,493.4
431-432	Intracerebral & Intracranial Hemorrhages	Male	62.8	9.0	-	-	1.4	4.2	15.0	46.2	166.0	405.9	1,374.6
		Female	97.2	4.6	-	-	1.9	4.9	11.7	24.9	137.0	384.9	1,559.5
434	Cerebral Thrombosis & Embolism	Male	3.1	-	-	-	0.7	2.3	4.1	5.0	10.8	9.8	16.0
		Female	1.8	-	-	-	0.4	2.3	3.2	1.6	5.7	2.6	12.4
436	Acute but Ill-defined Cerebrovascular Disease	Male	4.3	-	-	-	1.0	2.3	5.0	8.3	15.0	15.0	17.9
		Female	9.4	-	-	-	0.7	1.7	5.2	9.7	28.5	69.4	101.0
436	Acute but Ill-defined Cerebrovascular Disease	Male	8.5	-	-	-	0.9	1.5	6.4	11.1	31.3	66.8	104.0
		Female	10.4	-	-	-	0.5	1.9	4.1	8.3	26.1	71.4	99.4
436	Acute but Ill-defined Cerebrovascular Disease	Male	8.7	-	-	-	-	-	0.2	1.2	12.9	35.8	187.9
		Female	7.1	-	-	-	-	-	0.5	2.4	15.2	36.0	195.7
436	Acute but Ill-defined Cerebrovascular Disease	Male	10.2	-	-	-	-	-	-	-	11.1	35.7	183.6
		Female	46.8	-	-	-	0.2	0.2	3.2	14.3	84.6	227.8	926.2
436	Acute but Ill-defined Cerebrovascular Disease	Male	34.9	-	-	-	-	-	4.1	22.3	97.7	233.8	800.0
		Female	58.2	-	-	-	0.5	0.4	2.3	6.8	73.6	223.5	996.5

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 - Quantity is zero.  
 Rates per 100,000 population.  
 \* ICD is the acronym for "International Classification of Diseases," published by the World Health Organization, 1977, Geneva, Switzerland.

**TABLE 6-7.**  
**Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

9TH Rev.	Cause of Death	Age Groups											
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+
437	Generalized Ischemic Cerebrovascular Disease	5.9	6.9	-	-	0.2	-	0.2	0.7	2.7	6.5	22.8	122.3
		5.3	9.0	-	-	-	-	0.4	0.9	4.8	7.6	33.4	128.8
440	Arteriosclerosis	6.4	4.6	-	-	0.5	-	-	0.5	0.8	5.5	15.0	118.7
		7.4	-	-	-	-	-	-	-	3.5	13.4	32.5	148.0
441-448	Other Diseases of the Arteries, Arterioles, and Capillaries	6.3	-	-	-	-	-	-	-	6.4	19.0	36.0	143.7
		8.4	-	-	-	-	-	-	-	0.8	8.7	30.0	150.4
441	Aortic Aneurysm	11.3	-	-	-	0.4	0.5	0.4	2.9	14.7	33.7	71.6	145.3
		12.7	-	-	-	-	0.5	0.8	2.7	18.3	50.3	100.2	193.2
451-453	Venous Thrombosis & Embolism	10.0	-	-	-	0.9	0.5	-	3.2	11.3	19.8	50.7	118.7
		6.9	-	-	-	0.4	0.2	0.4	1.6	9.7	22.4	45.6	81.5
451-453	Other Diseases of the Circulatory System	8.6	-	-	-	-	0.5	0.8	1.8	14.3	34.1	69.4	121.4
		5.3	-	-	-	0.9	-	-	1.4	5.3	12.7	28.2	59.3
Residual of 390-459	Other Diseases of the Circulatory System	0.6	-	-	-	-	-	0.2	1.1	0.8	0.9	3.3	6.2
		0.3	-	-	-	-	-	0.4	0.5	0.8	-	2.6	2.5
VIII. Disease of the Respiratory System	Pneumonia & Influenza	0.9	-	-	-	-	-	-	1.8	0.8	1.6	3.8	8.3
		0.7	-	-	-	-	-	0.2	-	0.4	2.2	5.4	8.9
480-487	Pneumonia & Influenza	0.7	-	-	-	-	-	0.4	-	-	3.8	5.1	9.9
		0.7	-	-	-	-	-	-	-	0.8	0.8	5.6	8.3
480-486	Pneumonia	89.6	13.7	1.1	0.2	1.1	2.1	3.6	15.4	67.0	265.0	535.9	1,322.3
		88.1	13.5	-	0.4	1.3	3.2	4.6	15.4	73.2	305.4	649.9	1,659.4
487	Influenza	91.1	13.9	2.2	-	0.9	1.0	2.6	15.3	61.2	231.2	452.5	1,134.5
		28.3	11.4	0.5	-	0.7	0.9	2.1	3.4	11.2	40.1	108.5	574.3
480-486	Pneumonia	24.5	13.5	-	-	0.9	1.9	2.7	2.3	13.5	45.5	131.0	624.1
		31.9	9.3	1.1	-	0.5	-	1.5	4.5	9.1	35.6	92.0	546.5
487	Influenza	27.6	9.1	0.5	-	0.7	0.9	1.9	3.4	11.2	39.7	107.4	560.1
		24.0	13.5	-	-	0.9	1.9	2.3	2.3	13.5	45.5	128.4	609.3
487	Influenza	31.1	4.6	1.1	-	0.5	-	1.5	4.5	9.1	34.8	92.0	532.7
		0.6	2.3	-	-	-	-	0.2	-	-	0.4	1.1	14.2
487	Influenza	0.5	-	-	-	-	-	0.4	-	-	-	2.6	14.9
		0.7	4.6	-	-	-	-	-	-	-	0.8	-	13.8

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- Quantity is zero.

Rates per 100,000 population.

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**TABLE 6-7.**  
**Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

9TH Rev.	Cause of Death	Age Groups											
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+
490-496	Chronic Obstructive Pulmonary Disease & Allied Conditions	51.2	-	-	0.2	0.4	1.2	1.1	9.0	50.4	200.2	368.8	584.9
		53.0	-	-	0.4	0.4	1.4	1.2	9.5	52.5	232.4	436.7	817.3
	Female	49.5	-	-	-	0.5	1.0	1.1	8.6	48.3	173.4	319.2	455.4
490-491	Chronic & Unspecified Bronchitis	1.6	-	-	-	-	-	0.2	1.2	5.6	9.8	23.0	
		1.6	-	-	-	-	-	-	0.5	0.8	7.6	10.3	29.7
	Female	1.6	-	-	-	-	-	-	1.5	4.0	9.4	19.3	
492	Emphysema	10.7	-	-	-	-	-	1.6	12.4	50.1	80.3	101.0	
		11.4	-	-	-	-	-	1.4	13.5	59.8	113.0	133.7	
	Female	10.0	-	-	-	-	-	1.8	11.3	42.0	56.3	82.8	
493	Asthma	2.7	-	-	0.2	0.4	0.7	1.0	3.2	3.9	5.6	13.0	23.9
		2.3	-	-	0.4	0.4	0.9	1.2	3.2	3.2	3.8	10.3	27.2
	Female	3.1	-	-	-	0.5	0.8	3.2	4.5	7.1	15.0	22.1	
494	Bronchiectasis	0.6	-	-	-	-	-	-	-	-	2.2	1.1	12.4
		0.3	-	-	-	-	-	-	-	-	2.8	-	5.0
	Female	0.9	-	-	-	-	-	-	-	1.6	1.9	16.6	
496	Chronic Airway Obstruction Not Elsewhere Classified (COPD)	35.5	-	-	-	-	0.5	-	4.1	32.9	136.8	263.6	423.6
		37.1	-	-	-	-	0.5	-	4.5	35.0	158.4	300.6	619.2
	Female	34.0	-	-	-	-	0.5	3.6	31.0	118.8	236.6	314.7	
Residual of 460-519	Other Diseases of the Respiratory System	10.2	2.3	0.5	-	-	-	0.4	2.9	5.4	24.6	59.7	164.0
		10.7	-	-	-	-	-	0.8	3.6	7.2	27.5	84.8	220.4
	Female	9.7	4.6	1.1	-	-	-	2.3	3.8	22.2	41.3	132.5	
IX. Diseases of the Digestive System		29.8	11.4	-	0.2	0.4	2.1	10.5	23.1	44.6	79.0	108.5	343.0
		28.1	22.5	-	0.4	0.4	1.9	14.6	28.1	51.0	81.6	118.2	341.8
	Female	31.5	-	-	-	0.5	2.4	6.4	18.0	38.5	76.8	101.4	343.7
531	Ulcer of the Stomach	1.0	-	-	-	-	-	-	-	3.1	3.5	10.6	
		0.9	-	-	-	-	-	-	-	3.2	4.7	5.1	9.9
	Female	1.0	-	-	-	-	-	-	3.0	2.4	3.8	11.0	
532	Ulcer of the Duodenum	0.7	-	-	-	-	0.2	-	0.2	-	0.9	2.2	15.1
		0.8	-	-	-	-	-	-	0.5	-	1.9	2.6	19.8
	Female	0.7	-	-	-	-	0.5	-	-	-	1.9	12.4	

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**TABLE 6-7.**  
**Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

9TH Rev.	Cause of Death	Age Groups										
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79
533	Peptic Ulcer	0.7	-	-	-	-	-	0.2	1.6	0.9	3.3	11.5
		0.6	-	-	-	-	-	0.4	1.6	0.9	5.1	7.4
550-553, 560	Hernia & Intestinal Obstruction	0.9	-	-	-	-	-	-	1.5	0.8	1.9	13.8
		2.1	2.3	-	-	-	-	-	-	2.2	7.6	44.3
571	Cirrhosis of the Liver	1.5	4.5	-	-	-	-	-	-	2.8	5.1	42.1
		2.6	-	-	-	-	-	-	-	1.6	9.4	45.5
571.0-.3	Alcoholic Cirrhosis of the Liver	9.4	-	-	-	-	1.4	8.0	24.4	30.6	26.0	22.2
		11.0	-	-	-	-	1.4	12.3	30.3	36.0	41.1	12.4
574-576	Diseases of the Gallbladder	7.8	-	-	-	-	1.4	3.8	18.9	26.1	15.0	27.6
		7.4	-	-	-	-	1.4	7.2	21.3	22.9	15.2	5.3
577	Diseases of the Pancreas	9.6	-	-	-	-	1.4	11.2	27.1	31.3	28.3	9.9
		5.2	-	-	-	-	1.4	3.4	15.9	15.8	5.6	2.8
Residual of 520-579	Other Diseases of the Digestive System	1.9	-	-	-	-	-	0.6	0.4	4.7	8.7	30.1
		1.6	-	-	-	-	-	0.8	0.8	1.9	10.3	37.2
X. 580-589	Nephritis & Nephrosis	2.1	-	-	-	-	-	0.4	-	7.1	7.5	26.2
		0.8	-	-	-	-	-	0.2	2.3	2.6	1.1	8.0
590	Infections of the Kidney	0.9	-	-	-	-	-	0.4	1.6	4.7	-	7.4
		0.8	-	-	-	-	-	-	3.0	0.8	1.9	8.3
599.0	Urinary Tract Infection	13.2	9.1	-	0.2	0.4	0.5	1.5	12.8	33.7	55.3	201.2
		10.7	18.0	-	0.4	0.4	0.5	0.8	5.4	13.5	48.8	205.6
599.0	Urinary Tract Infection	15.6	-	-	-	0.5	0.5	2.3	12.1	38.0	60.1	198.7
		11.8	-	-	-	-	0.5	1.7	3.2	6.2	16.4	218.9
599.0	Urinary Tract Infection	9.7	-	-	-	-	0.5	1.2	8.0	14.2	66.8	227.9
		13.9	-	-	-	-	0.5	2.3	3.2	4.5	18.2	213.9
599.0	Urinary Tract Infection	5.2	-	-	-	-	0.5	1.3	3.9	7.8	30.4	83.3
		5.6	-	-	-	-	0.5	1.2	2.3	5.6	7.6	121.4
599.0	Urinary Tract Infection	4.7	-	-	-	-	0.5	1.5	2.3	7.9	22.5	62.1
		0.3	-	-	-	-	-	0.2	-	-	0.9	1.1
599.0	Urinary Tract Infection	0.1	-	-	-	-	-	-	-	-	-	5.0
		0.6	-	-	-	-	-	0.4	-	-	1.6	6.9
599.0	Urinary Tract Infection	4.4	-	-	-	-	-	0.2	0.7	3.0	15.2	100.1
		2.1	-	-	-	-	-	-	-	0.8	12.8	59.4
599.0	Urinary Tract Infection	6.5	-	-	-	-	-	0.4	0.8	2.4	16.9	122.8

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**TABLE 6-7. Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

9TH Rev.	Cause of Death	Age Groups											
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+
600-608	Disease of the Male Genital Organs	Male	-	-	-	-	-	-	-	-	0.4	3.3	7.1
		Female	-	-	-	-	-	-	-	-	0.9	7.7	19.8
614-629	Diseases of the Uterus & Other Female Genital Organs	Male	-	-	-	-	-	-	-	0.4	-	-	2.7
		Female	0.4	-	-	-	-	-	0.5	0.8	1.6	-	4.1
Residual of 580-629	Other Diseases of the Genitourinary System	Male	1.4	-	-	-	-	-	0.7	1.2	3.5	8.7	19.5
		Female	1.1	-	-	-	-	-	0.9	1.6	1.9	5.1	22.3
630-676	XI. Complications of Pregnancy, Childbirth, & the Puerperium	Male	0.2	-	-	-	0.4	0.7	-	-	-	-	-
		Female	0.3	-	-	-	0.9	1.4	-	-	-	-	-
680-709	XII. Diseases of the Skin & Subcutaneous Tissue	Male	1.2	-	-	-	0.2	0.2	0.5	1.2	1.3	1.1	23.0
		Female	1.8	-	-	-	0.5	-	0.5	1.6	-	-	9.9
710-739	XIII. Musculoskeletal System & Connective Tissue Diseases	Male	5.9	-	-	-	0.5	0.8	2.3	6.2	12.1	28.2	91.3
		Female	2.9	-	-	-	-	0.8	1.4	0.8	8.5	23.1	54.5
745-746	XIV. Congenital Anomalies	Male	8.8	-	-	-	1.0	0.8	3.2	11.3	15.0	31.9	111.8
		Female	5.4	148.5	3.2	1.1	1.6	1.6	1.9	4.7	6.0	18.4	20.4
745-746	Congenital Anomalies of the Heart	Male	6.0	161.7	4.1	0.4	2.6	1.4	1.5	7.2	7.6	23.1	29.7
		Female	4.8	134.8	2.2	1.8	.5	1.9	2.3	2.3	4.8	15.0	15.2
745-746	Congenital Anomalies of the Heart	Male	1.3	38.8	2.1	0.4	0.7	0.5	1.0	0.2	0.4	2.2	3.5
		Female	1.7	62.9	2.1	-	0.9	0.5	0.8	-	0.9	2.6	7.4
Residual of 740-759	Other Congenital Anomalies	Male	0.9	13.9	2.2	0.9	0.5	0.5	1.1	-	-	1.9	1.4
		Female	4.1	109.7	1.1	0.7	0.9	1.2	1.0	4.7	5.6	16.3	16.8
740-759	Other Congenital Anomalies	Male	4.3	98.8	2.1	0.4	1.8	0.9	0.8	7.2	6.6	20.6	22.3
		Female	4.0	120.9	-	0.9	-	1.4	1.1	2.3	4.8	13.1	13.8

WARNING: Rates based on less than 5 events are unreliable.

- Quantity is zero.

Rates per 100,000 population.

\* ICD is the acronym for "International Classification of Diseases," published by the World Health Organization, 1977, Geneva, Switzerland.

**TABLE 6-7.**  
**Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

9TH Rev.	Cause of Death	Age Groups														
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+			
760-779	XV. Perinatal Conditions	Male	226.2	0.5	0.2	0.2	0.2	-	-	-	-	-	-	-	-	-
		Female	3.3	229.1	1.0	0.4	-	-	-	-	-	-	-	-	-	-
797	XVI. Symptoms & Ill-defined Conditions	Male	18.7	93.7	0.5	0.4	0.9	0.5	2.5	5.2	22.1	36.7	81.4	264.1		
		Female	17.5	112.3	1.0	-	0.4	0.5	4.2	7.7	23.9	55.0	87.3	247.7		
798	Senility	Male	19.8	74.4	-	0.9	1.4	0.5	0.8	2.7	20.4	21.4	77.0	273.3		
		Female	0.9	-	-	-	-	-	-	-	-	0.9	0.9	24.8		
799	Sudden Infant Death Syndrome	Male	0.5	-	-	-	-	-	-	-	-	0.9	-	17.3		
		Female	1.3	-	-	-	-	-	-	-	-	0.8	-	29.0		
Residual of 780-799	Other Symptoms & Ill-defined Conditions	Male	1.1	82.3	-	-	-	-	-	-	-	-	-	-		
		Female	1.5	103.3	-	-	-	-	-	-	-	-	-	-		
800-849	XVII. Accidents, Poisoning, & Violence	Male	0.8	60.4	-	-	-	-	-	-	-	-	-	-		
		Female	16.6	11.4	0.5	0.4	.9	0.5	2.5	5.2	22.1	35.8	81.4	239.3		
810-825	Accidents	Male	15.6	9.0	1.0	-	.4	0.5	4.2	7.7	23.9	54.1	87.3	230.3		
		Female	17.7	13.9	-	0.9	1.4	0.5	0.8	2.7	20.4	20.6	77.0	244.3		
830-838	Motor Vehicle Accidents	Male	62.2	36.6	16.6	11.9	64.0	65.2	70.7	68.1	52.7	62.1	98.7	259.7		
		Female	88.9	49.4	19.7	14.2	96.4	105.2	110.0	102.1	74.8	89.2	159.3	344.3		
840-845	Water Transport Accidents	Male	36.2	23.2	13.2	9.5	30.0	24.2	32.1	34.3	31.7	39.6	54.5	212.5		
		Female	39.8	18.3	13.9	8.4	44.2	37.5	40.6	37.8	26.7	38.8	73.8	217.1		
850-869	Air Transport Accidents	Male	54.0	22.5	17.6	9.9	64.8	60.2	65.0	59.5	36.6	47.4	105.3	240.2		
		Female	26.0	13.9	9.9	6.8	22.6	14.3	16.6	16.2	17.4	31.7	50.7	204.3		
880-888	Poisoning Accidents	Male	16.9	2.3	5.9	4.4	34.1	18.5	16.0	17.0	14.7	16.0	17.4	26.6		
		Female	23.9	4.5	7.3	5.2	49.1	27.3	24.6	25.4	17.5	17.1	28.3	42.1		
890-898	Other Accidents	Male	10.1	-	4.4	3.6	18.4	9.5	7.6	8.6	12.1	15.0	9.4	17.9		
		Female	0.6	-	-	-	0.9	0.9	1.1	0.5	-	0.4	1.1	-		
900-908	Accidents	Male	1.1	-	-	-	1.8	1.9	1.9	0.9	-	0.9	2.6	-		
		Female	0.1	-	-	-	-	-	0.4	-	-	-	-	-		
910-918	Accidents	Male	0.5	-	-	-	1.1	0.9	0.6	0.5	0.4	-	1.1	0.9		
		Female	0.9	-	-	-	1.3	1.9	1.2	0.9	0.8	-	2.6	2.5		
920-928	Accidents	Male	0.1	-	-	-	0.9	-	-	-	-	-	-	-		
		Female	5.4	-	-	0.2	1.8	8.7	13.9	10.2	1.9	0.9	-	1.8		
930-938	Accidents	Male	8.9	-	-	-	1.8	14.8	23.5	17.2	3.2	0.9	-	2.5		
		Female	2.0	-	-	0.5	1.8	2.4	4.5	3.2	0.8	0.8	-	1.4		

WARNING: Rates based on less than 5 events are unreliable.

- Quantity is zero.

Rates per 100,000 population.

\* ICD is the acronym for "International Classification of Diseases," published by the World Health Organization, 1977, Geneva, Switzerland.

**TABLE 6-7.  
Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1997 (Continued)**

9TH Rev.	Cause of Death	Age Groups											
		Total	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-79	80+
880-888	Accidental Falls	Male	-	0.5	0.2	0.7	1.2	1.5	2.9	2.7	12.1	33.6	149.8
		Female	-	1.0	0.4	0.9	2.3	2.7	3.2	2.4	14.2	36.0	141.2
890-899	Fire & Flame Accidents	Male	-	-	-	-	0.4	2.7	3.0	10.3	-	-	154.6
		Female	-	2.1	1.1	0.4	1.4	1.0	0.5	1.2	2.6	1.1	5.3
910	Drowning & Submersion	Male	-	2.1	1.3	0.4	1.4	1.2	0.9	1.6	3.8	-	5.0
		Female	-	2.2	0.9	0.5	1.4	0.8	-	0.8	1.6	1.9	5.5
950-959	Suicides	Male	2.3	3.2	1.8	1.8	3.0	1.7	1.4	1.6	0.4	4.3	5.3
		Female	3.3	4.1	1.7	3.5	5.1	2.7	1.8	3.2	0.9	10.3	12.4
960-978	Homicides	Male	0.8	2.2	1.8	-	1.0	0.8	0.9	-	-	-	1.4
		Female	16.7	-	1.5	13.7	19.9	20.4	24.2	21.3	20.7	23.9	40.8
980-989	Injuries Undetermined Whether Accidentally or Purposely Inflicted	Male	26.4	-	1.7	21.0	32.0	32.7	33.6	31.8	36.0	53.9	99.1
		Female	7.3	-	1.4	6.0	7.6	8.3	14.9	11.3	7.9	1.9	8.3
990-999	Injury Resulting From Operations of War	Male	4.1	2.7	1.8	5.2	6.6	5.7	3.4	3.9	2.6	1.1	0.9
		Female	6.2	2.1	2.2	8.8	10.7	8.5	4.5	4.8	5.7	-	2.5
990-999	Injury Resulting From Operations of War	Male	2.0	3.3	1.4	1.4	2.4	3.0	2.3	3.0	-	1.9	-
		Female	1.6	9.1	0.2	0.9	1.2	4.0	2.7	0.8	-	-	0.9
990-999	Injury Resulting From Operations of War	Male	2.2	9.0	0.4	1.8	2.3	3.8	4.5	1.6	-	-	2.5
		Female	0.9	9.3	-	-	-	4.2	0.9	-	-	-	-
		Male	-	-	-	-	-	-	-	-	-	-	
		Female	-	-	-	-	-	-	-	-	-	-	

WARNING: Rates based on less than 5 events are unreliable.

- Quantity is zero.

Rates per 100,000 population.

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**TABLE 6-8.**  
**Number of Deaths by Cause and Month of Death, Oregon Residents, 1997**

Cause of Death	Total	Month of Death											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Total</b>	28,750	2,945	2,390	2,629	2,405	2,371	2,125	2,195	2,269	2,203	2,362	2,292	2,564
Diseases of the Heart	7,500	770	654	710	650	620	556	551	557	580	618	602	632
Malignant Neoplasms	6,790	592	518	607	539	569	528	524	590	576	561	561	625
Cerebrovascular Disease	2,582	281	214	250	216	230	181	188	176	194	221	181	250
Chronic Obstructive Pulmonary Disease	1,648	198	134	159	153	135	125	127	117	106	114	121	159
Unintentional Injuries	1,281	119	91	92	110	117	113	104	145	85	99	82	124
Pneumonia & Influenza	909	160	91	87	77	71	56	65	48	33	68	78	75
Diabetes Mellitus	816	70	66	70	79	68	65	78	47	71	75	61	66
Alzheimer's Disease	718	88	66	67	50	57	54	55	57	45	54	56	69
Suicide	538	56	31	53	54	43	35	46	41	48	42	52	37
Alcoholism and Allied Conditions	376	32	27	38	26	37	29	39	38	32	24	24	30
Other Diseases of the Arteries	365	30	33	39	34	17	26	40	28	29	26	29	34
Arteriosclerosis	237	29	11	23	25	21	15	12	23	17	13	26	22
Hypertension With or Without Renal Disease	229	19	17	23	19	25	17	14	21	13	24	13	24
Parkinson's Disease	214	25	21	11	15	11	16	19	17	18	21	12	28
Congenital Anomalies	174	11	14	13	11	19	15	15	11	21	10	21	13
Nephritis and Nephrosis	166	15	16	17	20	14	6	11	7	11	15	17	17
Homicide and Legal Intervention	131	16	9	7	11	9	8	24	9	10	10	13	5
Perinatal Conditions	102	14	7	3	9	10	4	7	11	14	4	6	13
Septicemia	99	9	11	8	7	9	6	5	6	5	9	8	16
AIDS	93	18	14	6	10	3	7	7	9	7	6	2	4
Hernia and Intestinal Obstruction	66	6	7	6	5	2	3	7	4	6	5	4	11
All Other Causes	3,716	387	338	340	285	284	260	257	307	282	343	323	310

**TABLE 6-9.**  
**Deaths by Age, Race, and Ethnicity, Oregon Residents, 1997**

Race and Ethnicity	Total	Age at Death								
		< 1	1-4	5-14	15-19	20-24	25-29	30-34	35-39	40-44
<b>Total</b>	28,750	256	61	91	162	191	214	254	395	571
Hispanic	368	39	10	6	8	22	23	22	13	17
Non-Hispanic <sup>1</sup>	28,382	217	51	85	154	169	191	232	382	554
<b>White</b>	27,831	229	49	82	147	168	193	227	360	525
Hispanic	349	37	9	6	8	22	23	21	11	17
Non-Hispanic <sup>1</sup>	27,482	192	40	76	139	146	170	206	349	508
<b>African American</b>	373	14	4	2	7	8	9	10	16	23
Hispanic	2	-	-	-	-	-	-	-	-	-
Non-Hispanic <sup>1</sup>	371	14	4	2	7	8	9	10	16	23
<b>Indian</b>	244	4	4	4	3	9	10	13	10	16
Hispanic	9	2	-	-	-	-	-	1	1	-
Non-Hispanic <sup>1</sup>	235	2	4	4	3	9	10	12	9	16
<b>Chinese</b>	60	1	-	-	1	-	-	1	-	-
Hispanic	1	-	-	-	-	-	-	-	-	-
Non-Hispanic <sup>1</sup>	59	1	-	-	1	-	-	1	-	-
<b>Japanese</b>	67	-	1	-	2	-	-	-	1	1
Non-Hispanic <sup>1</sup>	67	-	1	-	2	-	-	-	1	1
<b>Other Asian &amp; Pac. Is.</b>	114	4	2	3	2	5	2	3	3	4
Hispanic	4	-	-	-	-	-	-	-	-	-
Non-Hispanic <sup>1</sup>	110	4	2	3	2	5	2	3	3	4
<b>Other &amp; Unknown<sup>2</sup></b>	61	4	1	-	-	1	-	-	5	2
Hispanic	3	-	1	-	-	-	-	-	1	-
Non-Hispanic <sup>1</sup>	58	4	-	-	-	1	-	-	4	2

Race and Ethnicity	Age at Death									
	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90+
<b>Total</b>	774	922	1,082	1,452	2,182	3,210	4,120	4,794	4,167	3,852
Hispanic	28	21	19	23	22	30	21	19	14	11
Non-Hispanic <sup>1</sup>	746	901	1,063	1,429	2,160	3,180	4,099	4,775	4,153	3,841
<b>White</b>	725	866	1,039	1,380	2,112	3,103	4,032	4,700	4,092	3,802
Hispanic	26	19	18	23	19	29	21	17	13	10
Non-Hispanic <sup>1</sup>	699	847	1,021	1,357	2,093	3,074	4,011	4,683	4,079	3,792
<b>African American</b>	24	23	18	24	28	35	29	46	30	23
Hispanic	-	-	-	-	-	-	-	1	1	-
Non-Hispanic <sup>1</sup>	24	23	18	24	28	35	29	45	29	23
<b>Indian</b>	14	16	11	26	18	25	22	17	13	9
Hispanic	2	1	1	-	1	-	-	-	-	-
Non-Hispanic <sup>1</sup>	12	15	10	26	17	25	22	17	13	9
<b>Chinese</b>	1	2	1	10	4	12	10	9	5	3
Hispanic	-	1	-	-	-	-	-	-	-	-
Non-Hispanic <sup>1</sup>	1	1	1	10	4	12	10	9	5	3
<b>Japanese</b>	2	2	-	3	5	15	12	9	5	9
Non-Hispanic <sup>1</sup>	2	2	-	3	5	15	12	9	5	9
<b>Other Asian &amp; Pac. Is.</b>	7	9	10	8	7	13	14	4	12	2
Hispanic	-	-	-	-	2	-	-	1	-	1
Non-Hispanic <sup>1</sup>	7	9	10	8	5	13	14	3	12	1
<b>Other &amp; Unknown<sup>2</sup></b>	1	4	3	1	8	7	1	9	10	4
Hispanic	-	-	-	-	-	1	-	-	-	-
Non-Hispanic <sup>1</sup>	1	4	3	1	8	6	1	9	10	4

<sup>1</sup> NOTE: includes a small number with unknown ethnicity.

<sup>2</sup> "Other and Unknown" includes groups where fewer than 50 deaths were recorded (e.g., Hawaiian, Filipino).

TABLE 6-10. Deaths by Selected Causes by Race/Ethnicity, Oregon Residents, 1997

Selected Causes of Death	RACE							Hispanic <sup>2</sup>
	Total	White	African American	Indian	Chinese & Japanese	Other Asian & Pac. Isl.	Other & N.S. <sup>1</sup>	
<b>Total</b>	28,750	27,831	373	244	127	114	61	368
Tuberculosis (010-018, 137)	10	10	-	-	-	-	-	-
Septicemia (038)	99	96	2	1	-	-	-	-
AIDS (042-044)	93	87	5	1	-	-	-	3
Measles (055)	-	-	-	-	-	-	-	-
Viral Hepatitis (070)	62	57	1	1	1	2	-	5
Other infective & parasitic diseases (residual 001-139)	112	107	4	-	-	-	1	1
Malignant neoplasms (140-208)	6,790	6,607	77	37	33	28	8	56
Buccal cavity & pharynx (140-149)	123	120	-	2	-	1	-	-
Digestive organs & peritoneum (150-159)	1,443	1,391	21	8	11	10	2	16
Large intestine (153)	539	520	7	5	5	2	-	6
Pancreas (157)	328	317	5	-	2	3	1	1
Respiratory and intrathoracic organs (160-165)	2,101	2,054	19	11	7	8	2	10
Bronchus and lung (162.2-162.9)	2,038	1,991	19	11	7	8	2	10
Malignant melanoma (172)	101	97	1	-	1	2	-	-
Other skin (173)	31	30	1	-	-	-	-	-
Breast (174-175)	487	472	9	3	2	1	-	5
Genital organs (179-187)	812	792	11	2	4	3	-	4
Cervix & uterus (179-182)	129	124	3	-	1	1	-	-
Ovary (183.0)	176	174	1	-	-	1	-	2
Prostate (185)	475	463	7	1	3	1	-	2
Urinary organs (188-189)	308	302	1	-	2	1	2	3
Leukemia (204-208)	282	276	1	3	1	1	-	5
Benign neoplasms (210-229)	19	18	1	-	-	-	-	1
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	65	62	2	-	1	-	-	-
Diabetes mellitus (250)	816	763	20	20	4	8	1	15
Nutritional deficiencies (260-269)	33	32	1	-	-	-	-	-
Anemias (280-285)	35	31	-	-	1	3	-	-
Alzheimer's dementia (290.1)	300	296	2	1	-	1	-	-
Alcoholic psychoses & alcoholism (291, 303)	128	122	-	4	-	1	1	3
Drug dependence (304)	22	18	2	1	-	-	1	3
Meningitis (320-322)	9	9	-	-	-	-	-	-
Alzheimer's disease (331.0)	418	412	3	1	1	-	1	2
Parkinson's disease (332.0)	214	206	3	-	2	3	-	-
Epilepsy (345)	18	18	-	-	-	-	-	2
Major cardiovascular diseases (390-448)	10,924	10,626	128	71	43	31	25	84
Diseases of the heart (390-398, 402, 404-429)	7,511	7,309	86	51	28	21	16	60
Rheumatic fever & chronic rheumatic heart disease (390-398)	80	78	1	1	-	-	-	1
Hypertensive heart disease with or without renal disease (402, 404)	254	245	5	2	2	-	-	3
Ischemic heart disease (410-414)	4,861	4,733	60	29	16	12	11	41
Myocardial infarction (410)	1,845	1,796	21	10	8	4	6	20
Other acute & subacute (411)	3	2	-	-	-	1	-	-
Chronic ischemic heart disease (412-414)	3,013	2,935	39	19	8	7	5	21
All other forms (415-429)	2,316	2,253	20	19	10	9	5	15
Hypertension (401, 403)	229	218	5	3	2	1	-	2
Cerebrovascular disease (430-438)	2,582	2,510	31	13	11	8	9	20
Subarachnoid hemorrhage (430)	99	91	2	3	2	-	1	2
Intracerebral & intracranial hemorrhages (431-432)	304	290	3	1	3	3	4	6
Cerebral thrombosis & embolism (434)	279	275	1	1	-	-	2	-
Acute but ill-defined cerebrovascular disease (436)	1,504	1,470	19	7	5	2	1	11
Generalized ischemic cerebrovascular disease (437)	189	186	1	1	-	1	-	1
Arteriosclerosis (440)	237	235	2	-	-	-	-	-
Other diseases of arteries, arterioles and capillaries (441-448)	365	354	4	4	2	1	-	2
Venous thrombosis & embolism (451-453)	20	20	-	-	-	-	-	-
Pneumonia (480-486)	889	873	4	5	2	4	1	9
Influenza (487)	20	20	-	-	-	-	-	1
Bronchitis, emphysema, asthma and COPD (490-496)	1,648	1,618	14	5	6	-	5	11
Gastric, duodenal, or peptic ulcer (531-533)	79	76	-	1	2	-	-	1
Hernia & intestinal obstruction (550-553, 560)	66	64	1	1	-	-	-	-
Cirrhosis of the liver (571)	302	283	6	9	1	1	2	10
Alcoholic cirrhosis (571.0-571.3)	237	221	6	7	-	1	2	5
Diseases of the gallbladder (574-576)	60	58	1	-	1	-	-	-
Nephritis & nephrosis (580-589)	166	160	3	1	1	1	-	2
Infections of the kidney (590)	11	11	-	-	-	-	-	-
Diseases of the male genital organs (600-608)	12	12	-	-	-	-	-	-
Disease of the uterus and other female genital organs (614-629)	7	6	-	-	-	1	-	-
Complications of pregnancy, childbirth & the puerperium (630-676)	5	5	-	-	-	-	-	1
Congenital anomalies (740-759)	41	37	1	1	1	1	-	5
Certain causes in early infancy (760-779)	102	92	6	2	-	1	1	21
Sudden infant death syndrome (798.0)	36	32	4	-	-	-	-	3
Unintentional injuries (800-949)	1,281	1,198	23	41	8	8	3	60
Motor vehicle-related (810-825)	543	509	6	22	2	3	1	37
Suicides (950-959)	538	518	6	7	2	3	2	10
Homicides (960-978)	131	105	18	4	-	3	1	16
Injuries undetermined whether accidentally or purposely inflicted (980-989)	50	45	2	2	-	1	-	1

\* Decedents of Hispanic ethnicity may belong to any race. Nearly all (349) were white.

Other non-white includes groups in which the state total is less than 50 (e.g., Hawaiian, Filipino).

**TABLE 6-11.**  
**Years of Potential Life Lost Before Age 65 by Year and Cause,**  
**Oregon Residents, 1983-1997**

Year	Total	Unintentional Injury	Cancer	Heart Disease <sup>1</sup>	Suicide	Congenital Anomalies	Perinatal Conditions	Acquired Immune Deficiency Syndrome	Sudden Infant Death Syndrome
1983	119,079	30,533	18,602	13,493	8,720	7,997	9,609	63	6,258
1984	121,250	30,969	20,273	12,980	8,497	7,753	8,787	118	7,032
1985	118,035	30,221	18,735	12,424	8,792	8,019	8,763	271	6,907
1986	119,185	29,922	17,928	12,263	9,447	6,897	7,710	825	7,805
1987	120,949	30,110	18,723	12,650	8,203	7,257	10,387	2,135	7,420
1988	119,533	29,720	18,838	12,176	9,745	6,402	8,309	3,076	6,387
1989	116,878	26,633	17,924	11,453	9,714	6,149	10,989	3,304	5,999
1990	117,310	26,397	19,097	10,180	9,609	6,602	7,586	4,778	7,098
1991	113,112	23,842	19,215	10,901	9,801	6,710	6,291	5,796	5,484
1992	114,350	21,758	18,655	10,651	10,492	6,220	7,069	6,479	5,423
1993	123,280	25,797	19,747	12,071	9,772	7,125	5,391	7,884	5,873
1994	126,313	25,604	21,242	11,189	11,467	5,848	6,809	8,419	4,064
1995	128,177	28,912	20,505	12,126	12,029	5,394	4,932	8,214	4,906
1996	126,458	28,627	21,610	12,681	11,304	5,238	6,155	5,559	3,033
1997	120,508	27,322	21,233	12,697	10,937	5,867	6,596	2,286	2,323

Year	Homicide <sup>2</sup>	Alcoholism	Cerebrovascular Disease	Diabetes	Chronic Obstructive Pulmonary Disease	Undetermined External Cause	Pneumonia and Influenza	Other Diseases of the Arteries	Hernia and Intestinal Obstruction
1983	3,675	2,652	1,971	1,251	1,366	1,553	732	340	20
1984	4,066	2,542	2,098	946	1,208	1,734	1,135	294	174
1985	3,512	2,334	1,960	1,287	1,342	1,672	768	668	241
1986	5,368	2,559	1,540	1,038	1,438	1,925	955	314	179
1987	5,054	2,412	1,794	1,224	1,126	1,783	784	308	265
1988	4,331	2,433	1,783	1,631	1,197	1,176	1,220	461	63
1989	4,198	2,985	1,533	1,171	1,467	1,606	1,070	459	75
1990	3,679	2,647	1,770	1,181	1,341	1,427	1,494	558	155
1991	4,370	2,582	1,801	1,388	1,309	1,112	900	365	233
1992	5,436	2,845	2,087	1,916	1,213	1,706	1,224	522	46
1993	4,669	3,334	2,399	1,594	1,424	1,746	1,469	549	191
1994	5,759	3,491	2,799	1,890	1,309	1,747	1,434	612	26
1995	5,263	3,856	2,052	1,811	1,509	2,021	901	573	335
1996	5,140	4,086	2,277	2,019	1,625	2,265	1,115	549	245
1997	4,169	3,783	2,432	2,036	1,660	1,413	1,313	587	114

<sup>1</sup> Excludes alcoholic cardiomyopathy.

<sup>2</sup> Includes legal intervention.

TABLE 6-12. Years of Potential Life Lost by Cause, Oregon Residents, 1997

Selected Causes of Death	Before Age 65			Before Age 75			Before Age 85		
	Total	M	F	Total	M	F	Total	M	F
<b>Total</b>	120,508	77,110	43,398	209,408	130,945	78,463	374,582	225,238	149,344
Tuberculosis (010-018, 137)	46	10	36	79	20	59	134	35	99
Septicemia (038)	185	54	131	487	201	286	1,088	500	588
AIDS (042-044)	2,286	1,952	334	3,201	2,747	454	4,121	3,547	574
Viral hepatitis (070)	663	478	185	1,141	824	317	1,717	1,224	493
Other infective & parasitic diseases (residual 001-139)	1,248	874	374	1,665	1,124	541	2,465	1,544	921
Malignant neoplasms (140-208)	21,233	9,932	11,301	49,277	24,193	25,084	98,617	50,030	48,587
Buccal cavity & pharynx (140-149)	390	208	182	950	534	416	1,843	1,015	828
Digestive organs & peritoneum (150-159)	3,581	2,129	1,452	9,117	5,468	3,649	18,953	11,132	7,821
Large intestine (153)	1,180	672	508	3,031	1,715	1,316	6,396	3,547	2,849
Pancreas (157)	587	309	278	1,688	857	831	4,004	1,942	2,062
Respiratory/intrathoracic organs (160-165)	4,822	2,661	2,161	14,116	8,020	6,096	30,791	17,868	12,923
Bronchus and lung (162.2-162.9)	4,654	2,522	2,132	13,733	7,721	6,012	29,963	17,230	12,733
Malignant melanoma (172)	761	414	347	1,393	793	600	2,219	1,273	946
Other skin (173)	135	50	85	247	117	130	433	236	197
Breast (174-175)	2,827	12	2,815	5,633	27	5,606	9,553	57	9,496
Genital organs (179-187)	1,494	311	1,183	3,877	1,243	2,634	8,923	3,788	5,135
Cervix & uterus (179-182)	565	-	565	1,154	-	1,154	2,126	-	2,126
Ovary (183.0)	595	-	595	1,385	-	1,385	2,761	-	2,761
Prostate (185)	147	147	-	1,006	1,006	-	3,455	3,455	-
Urinary Organs (188-189)	496	332	164	1,473	995	478	3,517	2,385	1,132
Leukemia (204-208)	1,622	828	794	2,749	1,439	1,310	4,755	2,493	2,262
Benign neoplasms (210-229)	119	6	113	187	34	153	291	70	221
In situ, uncert. behav. & unspec. nature neopl. (230-239)	184	89	95	341	179	162	671	355	316
Diabetes mellitus (250)	2,036	942	1,094	4,724	2,266	2,458	10,081	4,788	5,293
Nutritional deficiencies (260-269)	15	0	15	29	3	26	114	23	91
Anemias (280-285)	156	118	38	214	154	60	339	218	121
Alzheimer's dementia (290.1)	9	1	8	92	51	41	750	324	426
Alcoholic psychoses & alcoholism (291, 303)	1,218	899	319	2,215	1,678	537	3,434	2,638	796
Drug dependence (304)	615	475	140	835	655	180	1,055	835	220
Meningitis (320-322)	189	99	91	219	118	101	291	164	127
Alzheimer's disease (331.0)	28	24	4	143	92	51	1,159	472	687
Parkinson's disease (332.0)	11	6	5	167	120	47	1,024	667	357
Epilepsy (345)	483	453	30	626	574	52	800	714	86
Major cardiovascular diseases (390-448)	15,958	10,709	5,249	38,163	25,377	12,786	88,862	55,760	33,102
Diseases of the heart (390-398, 402, 404-429)1	12,748	8,975	3,773	29,986	20,812	9,174	67,112	44,274	22,838
Rheumatic fever & chronic rheum. heart disease (390-398)	72	46	26	244	107	137	645	239	406
Hypertensive heart disease w/wo renal disease (402, 404)	282	239	43	690	540	150	1,666	1,132	534
Ischemic heart disease (410-414)	7,883	5,968	1,915	19,970	14,802	5,168	45,890	32,306	13,584
Myocardial infarction (410)	2,741	1,972	769	7,734	5,533	2,201	18,266	12,503	5,763
Other acute & subacute (411)	6	0	6	16	0	16	26	0	26
Chronic ischemic heart disease (412-414)	5,136	3,996	1,140	12,220	9,269	2,951	27,598	19,803	7,795
All other forms (415-429)	4,511	2,722	1,789	9,082	5,363	3,719	18,911	10,597	8,314
Hypertension (401, 403)	155	114	41	504	318	186	1,411	799	612
Cerebrovascular disease (430-438)	2,432	1,310	1,122	5,874	3,182	2,692	15,662	7,863	7,799
Subarachnoid hemorrhage (430)	796	335	461	1,429	542	887	2,259	790	1,469
Intracerebral & intracranial hemorrhages (431-432)	790	454	336	1,721	955	766	3,727	1,915	1,812
Cerebral thrombosis & embolism (434)	26	26	0	214	148	66	1,001	554	447
Acute but ill-defined cerebrovascular disease (436)	439	265	174	1,760	1,082	678	6,773	3,499	3,274
Generalized ischemic cerebrovascular disease (437)	341	212	129	554	347	207	1,124	681	443
Arteriosclerosis (440)	37	33	4	272	210	62	1,045	690	355
Other dis. of arteries, arterioles & capillaries (441-448)	587	278	309	1,527	855	672	3,632	2,134	1,498
Venous thrombosis & embolism (451-453)	105	46	59	198	76	122	326	114	212
Pneumonia (480-486)	1,223	747	476	2,271	1,316	955	5,184	2,850	2,334
Influenza (487)	91	26	65	111	36	75	171	65	106
Bronchitis, emphysema, asthma and COPD (490-496)	1,660	899	761	5,764	3,033	2,731	15,962	8,293	7,669
Gastric, duodenal, or peptic ulcer (531-533)	133	75	58	348	199	149	754	436	318
Hernia & intestinal obstruction (550-553, 560)	114	83	31	182	118	64	369	213	156
Cirrhosis of the liver (571)	2,688	1,786	902	4,921	3,185	1,736	7,694	4,850	2,844
Alcoholic cirrhosis (571.0-571.3)	2,461	1,625	836	4,430	2,885	1,545	6,725	4,352	2,373
Diseases of the gallbladder (574-576)	115	77	38	240	139	101	504	257	247
Nephritis & nephrosis (580-589)	388	208	180	716	394	322	1,470	811	659
Infections of the kidney (590)	24	0	24	39	0	39	80	0	80
Diseases of male genital organs (600-608)	0	0	-	2	2	-	44	44	-
Diseases of female genital organs (614-629)	20	-	20	47	-	47	89	-	89
Complications of pregnancy, childbirth, etc. (630-676)	178	-	178	228	-	228	278	-	278
Congenital anomalies (740-759)	5,867	3,205	2,662	6,696	3,665	3,031	8,212	4,491	3,721
Certain causes in early infancy (760-779)	6,596	3,429	3,167	6,582	3,471	3,111	7,602	4,001	3,601
Sudden infant death syndrome (798.0)	2,323	1,484	839	2,555	1,653	902	2,915	1,883	1,032
Unintentional injuries (800-949)	27,322	20,622	6,701	36,500	27,524	8,976	46,960	35,155	11,805
Motor vehicle-related (810-825)	15,102	10,979	4,123	19,874	14,376	5,498	25,026	17,995	7,031
Suicides (950-959)	10,937	8,420	2,517	15,429	11,836	3,593	20,401	15,672	4,729
Homicides (960-978)	4,169	3,194	975	5,405	4,120	1,285	6,705	5,102	1,603
Injuries of undetermined manner (980-989)	1,413	974	438	1,874	1,291	583	2,364	1,631	733

1 Includes alcoholic myopathy, unlike Table 6-11, which does not.

NOTE: "0" indicates no deaths occurred before the base age; "-" indicates no deaths of any kind.

**TABLE 6-13.**  
**Median Age at Death by Year and Cause, Oregon Residents, 1983-1997**

Year	All Causes	Heart Disease	Cancer	Cerebrovascular Disease	Chronic Obstructive Pulmonary Disease	Unintentional Injury	Pneumonia and Influenza	Arteriosclerosis
1983	74	77	70	81	73	35	84	86
1984	74	77	70	81	74	34	84	85
1985	75	78	71	81	74	36	85	86
1986	75	78	71	82	74	38	84	86
1987	75	78	71	82	74	37	84	85
1988	75	78	71	82	75	37	84	86
1989	76	79	72	81	75	41	85	86
1990	76	79	72	82	75	40	85	85
1991	76	79	72	82	75	40	83	86
1992	76	79	72	82	75	45	84	84
1993	77	80	72	82	76	43	85	84
1994	77	80	72	82	76	44	84	86
1995	77	80	73	83	76	42	84	84
1996	77	81	73	83	77	43	84	86
1997	78	80	73	83	77	44	85	85

Year	Alzheimer's Disease and Dementia	Suicide	Diabetes	Alcoholism	Homicide <sup>1</sup>	External Causes of Undetermined Manner	Acquired Immune Deficiency Syndrome	Parkinson's Disease
1983	80	43	73	60	32	34	34	79
1984	81	45	75	62	32	33	31	79
1985	82	43	73	62	35	35	34	79
1986	81	42	74	61	33	32	35	81
1987	83	43	72	60	32	30	35	79
1988	83	42	74	62	32	35	35	82
1989	83	42	74	61	35	34	39	81
1990	84	42	74	61	30	37	38	82
1991	84	42	75	61	30	38	38	81
1992	84	42	74	60	32	38	38	82
1993	85	43	75	59	32	33	38	83
1994	85	42	75	58	32	37	38	81
1995	85	41	75	56	32	38	40	82
1996	85	42	75	58	30	37	39	82
1997	86	45	75	57	34	40	41	82

<sup>1</sup> Includes legal intervention.

**TABLE 6-14.**  
**Deaths Due to External Causes and Fatalities Resulting from Injuries at Work,**  
**Oregon Residents, 1997**

Method of Death	Total	Unintended Injuries	Suicide	Homicide	Legal Intervention	Undetermined
<b>Total</b>	2,000	1,281	538	125	6	50
Firearms	428	10	334	74	5	5
Hanging and Suffocation	105	29	66	8	-	2
Drowning and Boating	96	82	12	1	-	1
Ingestion of Substance	308	176	103	4	-	25
Cutting and Piercing	20	-	6	14	-	-
Falls and Jumping	277	266	9	1	-	1
Motor Vehicles	545	543	-	-	-	2
Other	221	175	8	23	1	14
Row Percent	100.0	64.0	26.9	6.3	0.3	2.5
Firearms	100.0	2.3	78	17.3	1.2	1.2
Hanging and Suffocation	100.0	27.6	62.9	7.6	-	1.9
Drowning and Boating	100.0	85.4	12.5	1.0	-	1.0
Ingestion of Substance	100.0	57.1	33.4	1.3	-	8.1
Cutting and Piercing	100.0	-	30.0	70.0	-	-
Falls and Jumping	100.0	96.0	3.2	0.4	-	0.4
Motor Vehicles	100.0	99.6	-	-	-	0.4
Other	100.0	79.2	3.6	10.4	0.5	6.3
Column Percent	100.0	100.0	100.0	100.0	100.0	100.0
Firearms	21.4	0.8	62.1	59.2	83.3	10.0
Hanging and Suffocation	5.2	2.3	12.3	6.4	-	4.0
Drowning and Boating	4.8	6.4	2.2	0.8	-	2.0
Ingestion of Substance	15.4	13.7	19.1	3.2	-	50.0
Cutting and Piercing	1.0	-	1.1	11.2	-	-
Falls and Jumping	13.8	20.8	1.7	0.8	-	2.0
Motor Vehicles	27.2	42.4	-	-	-	4.0
Other	11.0	13.7	1.5	18.4	16.7	28.0
<b>Fatally Injured at Work</b>						
Yes	72	61	4	6	1	-
No	1,763	1,085	513	114	5	46
Not Stated	165	135	21	5	-	4
Row Percent	100.0	64.0	26.9	6.3	0.3	2.5
Yes	100.0	84.7	5.6	8.3	1.4	-
No	100.0	61.5	29.1	6.5	0.3	2.6
Not Stated	100.0	81.8	12.7	3.0	-	2.4
Column Percent	100.0	100.0	100.0	100.0	100.0	100.0
Yes	3.6	4.8	0.7	4.8	16.7	-
No	88.1	84.7	95.4	91.2	83.3	92.0
Not Stated	8.2	10.5	3.9	4.0	-	8.0

NOTE: Injuries due to the late effects of war are not shown but are included in the total.

**TABLE 6-15.**  
**Unintentional Injury Deaths Occurring in Oregon**  
**by Type of Injury and Age Groups, 1997**

Class and Type of Unintentional Injury	Total Deaths	Rate <sup>1</sup>	Age Groups						
			<1	1-4	5-14	15-24	25-44	45-64	65+
<b>Total</b>	<b>1,335</b>	<b>41.5</b>	<b>8</b>	<b>29</b>	<b>42</b>	<b>207</b>	<b>382</b>	<b>252</b>	<b>415</b>
<b>Work Accidents</b>	<b>30</b>	<b>0.9</b>	-	-	-	<b>5</b>	<b>9</b>	<b>14</b>	<b>2</b>
Logging	4	0.1	-	-	-	2	-	2	-
Agriculture	7	0.2	-	-	-	1	2	4	-
Mining	1	-	-	-	-	-	-	1	-
Construction	10	0.3	-	-	-	1	5	2	2
Manufacturing	3	0.1	-	-	-	1	-	2	-
Transportation	2	0.1	-	-	-	-	-	2	-
Trade	1	-	-	-	-	-	1	-	-
Service	1	-	-	-	-	-	1	-	-
Government	1	-	-	-	-	-	-	1	-
<b>Home Accidents</b>	<b>336</b>	<b>10.4</b>	<b>7</b>	<b>9</b>	<b>9</b>	<b>11</b>	<b>95</b>	<b>52</b>	<b>153</b>
Poisoning, Solid, Liquid	104	3.2	-	-	-	4	72	26	2
Poisoning, Gas	4	0.1	-	-	1	-	2	1	-
Falls	146	4.5	-	-	-	-	3	16	127
Fires	34	1.1	-	4	5	2	9	3	11
Drowning	12	0.4	1	3	2	-	4	1	1
Suffocation, Ingestion	6	0.2	-	-	-	-	-	-	6
Suffocation, Mechanical	10	0.3	6	2	-	1	-	-	1
Firearms	6	0.2	-	-	1	3	2	-	-
Other and Unspecified	14	0.4	-	-	-	1	3	5	5
<b>Motor Vehicle</b>	<b>572</b>	<b>17.8</b>	<b>1</b>	<b>14</b>	<b>22</b>	<b>154</b>	<b>172</b>	<b>119</b>	<b>90</b>
Injury to Pedestrian	74	2.3	1	5	7	11	21	17	12
Injury to Pedal Cyclist	17	0.5	-	-	5	3	7	1	1
Collision with Train	2	0.1	-	-	-	1	1	-	-
Collision with other Motor Vehicle	225	7.0	-	6	5	55	60	46	53
Collision with Fixed Object	78	2.4	-	-	2	28	31	9	8
Non-collision (Loss of Control)	154	4.8	-	3	3	52	42	39	15
Other and Unspecified	22	0.7	-	-	-	4	10	7	1
<b>Public Accident</b>	<b>285</b>	<b>8.9</b>	-	<b>6</b>	<b>11</b>	<b>34</b>	<b>91</b>	<b>54</b>	<b>89</b>
Railway Transportation	10	0.3	-	-	-	1	8	1	-
Other Transportation	4	0.1	-	-	1	-	1	2	-
Water Transportation	18	0.6	-	-	1	4	8	2	3
Air Transportation	23	0.7	-	-	-	5	6	9	3
Falls	65	2.0	-	1	1	3	5	4	51
Fires	5	0.2	-	-	-	-	2	1	2
Drowning	56	1.7	-	2	7	12	17	8	10
Firearms	3	0.1	-	-	-	-	2	-	1
Other and Unspecified	101	3.1	-	3	1	9	42	27	19
<b>Unclassified</b>	<b>112</b>	<b>3.5</b>	-	-	-	<b>3</b>	<b>15</b>	<b>13</b>	<b>81</b>

- Quantity is zero.

<sup>1</sup> Rates per 100,000.

NOTE: The classes listed above follow the National Safety Council Classification System. Deaths from injuries that occurred at work and that involved transport vehicles (e.g., cars and airplanes) are included in the appropriate transportation category, not the occupational category. See Table 6-14 for a tally of all deaths resulting from injuries received at work.

**TABLE 6-16.**  
**Unintentional Injury Deaths by Type or Source of Injury, Age Groups, and Sex, Oregon Residents, 1997**

Type or Source of Unintentional Injury	Total Deaths	Age and Sex Groups																	
		< 1		1-4		5-14		15-24		25-34		35-44		45-54		55-64		65-74	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
<b>Total</b>	<b>1,281</b>	<b>5</b>	<b>3</b>	<b>17</b>	<b>9</b>	<b>23</b>	<b>15</b>	<b>148</b>	<b>49</b>	<b>130</b>	<b>30</b>	<b>169</b>	<b>44</b>	<b>131</b>	<b>36</b>	<b>46</b>	<b>23</b>	<b>50</b>	
<b>Transportation</b>	<b>591</b>	<b>1</b>	<b>-</b>	<b>7</b>	<b>4</b>	<b>13</b>	<b>8</b>	<b>120</b>	<b>42</b>	<b>71</b>	<b>20</b>	<b>75</b>	<b>22</b>	<b>62</b>	<b>19</b>	<b>24</b>	<b>16</b>	<b>19</b>	
Motor Vehicle	543	1	-	7	4	12	8	112	40	59	20	64	20	56	19	22	16	18	
Auto or Truck	399	-	-	3	3	4	5	93	32	43	12	41	14	42	14	14	14	14	
Motor Cyclist	21	-	-	-	-	-	-	5	1	5	-	7	-	1	1	1	-	-	
Pedal Cyclist	16	-	-	-	-	4	1	2	-	1	-	5	1	1	-	-	-	-	
Pedestrian	66	1	-	2	-	4	2	6	4	5	4	6	3	9	4	3	2	1	
Other	34	-	-	-	-	-	-	5	3	4	4	4	2	3	-	4	-	3	
Watercraft	18	-	-	-	-	-	-	4	-	4	-	5	1	2	-	-	-	1	
Aircraft	17	-	-	-	-	-	-	3	2	4	-	3	-	2	-	1	-	-	
Railway	10	-	-	-	-	-	-	1	-	3	-	3	1	1	-	1	-	-	
Other Road Vehicle	3	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	
<b>Poisoning</b>	<b>173</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>32</b>	<b>5</b>	<b>61</b>	<b>12</b>	<b>38</b>	<b>7</b>	<b>4</b>	<b>1</b>	<b>1</b>	
Gas	4	-	-	-	-	-	1	-	-	1	-	1	-	1	-	-	-	-	
Drugs and Medicines	166	-	-	-	-	-	-	4	4	29	5	60	12	36	7	4	1	1	
Other Solids and Liquids	3	-	-	-	-	-	-	-	-	2	-	-	-	1	-	-	-	-	
<b>Suffocation or Obstruction</b>	<b>29</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	
Inhalation of Food	12	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	
Inhalation of Other Material	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mechanical Suffocation	10	3	3	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	
<b>Miscellaneous</b>	<b>488</b>	<b>1</b>	<b>-</b>	<b>9</b>	<b>4</b>	<b>10</b>	<b>6</b>	<b>23</b>	<b>3</b>	<b>27</b>	<b>5</b>	<b>33</b>	<b>10</b>	<b>30</b>	<b>10</b>	<b>18</b>	<b>6</b>	<b>30</b>	
Falls	266	-	-	1	-	1	-	2	1	5	-	7	1	7	6	3	4	15	
Fires	40	-	-	2	2	3	2	1	1	3	3	3	2	2	-	2	1	4	
Drowning	66	1	-	4	2	4	4	8	-	11	2	7	2	4	2	4	-	1	
Struck by Object	18	-	-	-	-	1	-	2	-	-	-	4	1	4	-	2	-	3	
Machinery	19	-	-	1	-	-	-	2	-	3	-	4	-	6	-	1	-	1	
Firearms	10	-	-	-	-	1	-	3	-	3	-	1	-	-	-	1	-	1	
Electric Current	2	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	
Other and Unspecified	24	-	-	-	-	-	-	3	-	-	-	3	-	2	1	1	-	-	
Complications of Medical Procedures	18	-	-	1	-	-	-	-	-	-	-	1	1	2	1	-	-	2	
Late Effects of Accidents	25	-	-	-	-	-	-	2	1	2	-	2	3	2	-	4	1	3	

- Quantity is zero.

**TABLE 6-17.**  
**Deaths from Suicide, Homicide, Legal Intervention, and External Causes Undetermined Whether Unintentionally or Purposely Inflicted, by Age, Sex, and Method, Oregon Residents, 1997**

Method of Death	Total Deaths	Age and Sex Groups															
		Total		< 15		15-24		25-34		35-44		45-54		55-64		65-74	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
<b>Suicide</b>	<b>538</b>	<b>419</b>	<b>119</b>	<b>4</b>	<b>3</b>	<b>48</b>	<b>13</b>	<b>69</b>	<b>16</b>	<b>85</b>	<b>22</b>	<b>74</b>	<b>33</b>	<b>40</b>	<b>15</b>	<b>38</b>	<b>10</b>
All Poisoning	103	62	41	-	-	3	2	9	3	21	12	11	14	5	5	9	5
Medications	67	35	32	-	-	1	2	5	1	12	9	8	13	4	5	4	2
Auto Exhaust	31	23	8	-	-	2	-	3	2	7	2	3	1	1	-	4	3
Other Gas	4	3	1	-	-	-	-	-	-	2	1	-	-	-	-	1	-
Other	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Hanging	56	45	11	2	2	6	4	16	2	11	-	7	1	1	1	-	-
Suffocation by Plastic Bag	9	2	7	-	-	-	-	-	1	1	-	1	-	-	-	-	2
Other Suffocation	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Drowning	12	8	4	-	-	1	-	1	-	2	-	2	2	-	2	2	-
All Firearms	334	287	47	2	1	37	6	41	8	45	9	52	13	32	5	25	3
Handguns	237	198	39	2	1	23	6	21	7	30	8	34	8	25	5	22	3
Shotguns	31	30	1	-	-	4	-	5	-	3	1	7	-	3	-	2	-
Rifles	58	54	4	-	-	9	-	14	1	11	-	10	2	4	-	1	-
Other and Unspecified	8	5	3	-	-	1	-	1	-	1	-	1	3	-	-	-	-
Cutting and Piercing	6	4	2	-	-	1	-	1	-	1	1	1	-	-	1	-	-
Jumping From High Places	9	5	4	-	-	-	-	1	1	1	-	-	2	1	1	1	-
Other	8	5	3	-	-	-	1	-	1	3	-	-	1	1	-	-	-
<b>Homicide</b>	<b>125</b>	<b>94</b>	<b>31</b>	<b>11</b>	<b>6</b>	<b>20</b>	<b>3</b>	<b>23</b>	<b>5</b>	<b>21</b>	<b>8</b>	<b>8</b>	<b>5</b>	<b>5</b>	<b>3</b>	<b>5</b>	<b>-</b>
Strangulation	8	3	5	1	-	-	-	1	2	1	2	-	-	-	1	-	-
Drowning	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
All Firearms	74	57	17	5	2	17	3	16	3	13	5	2	3	1	1	3	-
Handguns	47	35	12	1	1	12	2	7	3	10	4	2	2	1	-	2	-
Shotguns	6	4	2	-	-	2	-	1	-	1	-	-	1	-	1	-	-
Rifles	10	8	2	3	1	-	1	3	-	1	-	-	-	-	-	1	-
Other and Unspecified	11	10	1	1	-	3	-	5	-	1	1	-	-	-	-	-	-
Cutting and Piercing	14	11	3	-	-	3	-	4	-	1	1	1	2	2	-	-	-
Child Battering and Neglect	3	2	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-
Other	25	20	5	2	3	-	-	2	-	6	-	5	-	2	1	2	-
<b>Legal Intervention</b>	<b>6</b>	<b>5</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>-</b>
Firearms	5	4	1	-	-	-	-	-	-	1	-	2	-	-	1	1	-
Other	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
<b>Undetermined Manner<sup>1</sup></b>	<b>50</b>	<b>35</b>	<b>15</b>	<b>3</b>	<b>2</b>	<b>4</b>	<b>-</b>	<b>5</b>	<b>-</b>	<b>10</b>	<b>11</b>	<b>10</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>
All Poisoning	25	17	8	-	-	1	-	2	-	8	7	5	1	-	-	-	-
Medications	23	16	7	-	-	1	-	2	-	7	6	5	1	-	-	-	-
Auto Exhaust	2	1	1	-	-	-	-	-	-	1	1	-	-	-	-	-	-
Drowning	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Firearms	5	4	1	1	-	2	-	-	-	-	-	1	-	-	-	-	-
Other	19	13	6	2	2	1	-	3	-	1	3	4	1	2	-	-	-

<sup>1</sup> Undetermined whether unintentionally or purposefully inflicted.

- Quantity is zero.

**TABLE 6-18.**  
**Tobacco-Related Deaths by Sex, Age, and Education, Oregon Residents, 1997**

Sex, Age, and Education	Total Deaths	Linked to Tobacco Use <sup>1</sup>		Not Linked to Tobacco Use		Unknown	
		Number	Percent	Number	Percent	Number	Percent
<b>Sex and Age</b>							
<b>Both Sexes</b>	28,750	6,379	22.2	15,608	54.3	6,763	23.5
< 1 <sup>2</sup>	256	1	0.4	225	87.9	30	11.7
1-25	505	6	1.2	460	91.1	39	7.7
25-34	468	19	4.1	383	81.8	66	14.1
35-44	966	113	11.7	693	71.7	160	16.6
45-54	1,696	385	22.7	911	53.7	400	23.6
55-64	2,534	944	37.3	1,035	40.8	555	21.9
65-74	5,392	1,918	35.6	2,220	41.2	1,254	23.3
75-84	8,914	2,255	25.3	4,398	49.3	2,261	25.4
85-94	6,757	709	10.5	4,354	64.4	1,694	25.1
95+	1,262	29	2.3	929	73.6	304	24.1
<b>Males</b>	14,269	3,867	27.1	6,795	47.6	3,607	25.3
< 1 <sup>2</sup>	148	-	-	129	87.2	19	12.8
1-25	349	5	1.4	318	91.1	26	7.4
25-34	329	12	3.6	273	83.0	44	13.4
35-44	636	75	11.8	455	71.5	106	16.7
45-54	1,030	252	24.5	509	49.4	269	26.1
55-64	1,458	575	39.4	537	36.8	346	23.7
65-74	3,029	1,178	38.9	1,074	35.5	777	25.7
75-84	4,521	1,334	29.5	1,944	43.0	1,243	27.5
85-94	2,475	418	16.9	1,359	54.9	698	28.2
95+	294	18	6.1	197	67.0	79	26.9
<b>Females</b>	14,481	2,512	17.3	8,813	60.9	3,156	21.8
< 1 <sup>2</sup>	108	1	0.9	96	88.9	11	10.2
1-25	156	1	0.6	142	91.0	13	8.3
25-34	139	7	5.0	110	79.1	22	15.8
35-44	330	38	11.5	238	72.1	54	16.4
45-54	666	133	20.0	402	60.4	131	19.7
55-64	1,076	369	34.3	498	46.3	209	19.4
65-74	2,363	740	31.3	1,146	48.5	477	20.2
75-84	4,393	921	21.0	2,454	55.9	1,018	23.2
85-94	4,282	291	6.8	2,995	69.9	996	23.3
95+	968	11	1.1	732	75.6	225	23.2
<b>Years of Education</b>							
< 9	4,855	976	20.1	2,677	55.1	1,202	24.8
9-11	3,209	869	27.1	1,559	48.6	781	24.3
12	11,396	2,777	24.4	5,948	52.2	2,671	23.4
13-15	4,869	1,011	20.8	2,782	57.1	1,076	22.1
16	2,154	350	16.2	1,318	61.2	486	22.6
17+	1,470	222	15.1	915	62.2	333	22.7
Not Stated	797	174	21.8	409	51.3	214	26.9

<sup>1</sup> The Oregon death certificate asks 'Did tobacco use contribute to the death?' Followed by four check boxes: 'Yes,' 'No,' 'Probably,' and 'Unknown.' This category includes deaths listed as 'Yes' or 'Probably.'

<sup>2</sup> The number of infant deaths due to exposure to tobacco combustion products is underreported. Based on a multiple logistic regression model that included 20 health and demographic variables, an estimated 6.2 percent (16) of infant deaths were attributable to maternal smoking during pregnancy.

TABLE 6-19. Tobacco-Related Deaths by Cause of Death, Oregon Residents, 1997

Selected Causes of Death	Total Deaths	Linked to Tobacco Use <sup>1</sup>		Not Linked to Tobacco Use		Unknown	
		No.	%	No.	%	No.	%
<b>Total</b>	28,750	6,379	22.2	15,608	54.3	6,763	23.5
Tuberculosis (010-018, 137)	10	1	10.0	5	50.0	4	40.0
Septicemia (038)	99	13	13.1	60	60.6	26	26.3
AIDS (042-044)	93	3	3.2	80	86.0	10	10.8
Other Infective & Parasitic Diseases (Residual 001-139)	174	14	8.0	126	72.4	34	19.5
Malignant Neoplasms (140-208)	6,790	2,157	31.8	3,498	51.5	1,135	16.7
Buccal cavity & pharynx (140-149)	123	73	59.3	33	26.8	17	13.8
Digestive organs & peritoneum (150-159)	1,443	154	10.7	991	68.7	298	20.7
Large intestine (153)	539	41	7.6	401	74.4	97	18.0
Pancreas (157)	328	25	7.6	231	70.4	72	22.0
Respiratory and intrathoracic organs (160-165)	2,101	1,698	80.8	179	8.5	224	10.7
Bronchus and lung (162.2-162.9)	2,038	1,671	82.0	159	7.8	208	10.2
Malignant melanoma (172)	101	2	2.0	85	84.2	14	13.9
Other skin (173)	31	11	35.5	12	38.7	8	25.8
Breast (174-175)	487	25	5.1	404	83.0	58	11.9
Genital organs (179-187)	812	42	5.2	599	73.8	171	21.1
Cervix & uterus (179-182)	129	6	4.7	93	72.1	30	23.3
Ovary (183.0)	176	1	0.6	146	83.0	29	16.5
Prostate (185)	475	30	6.3	337	70.9	108	22.7
Urinary organs (188-189)	308	55	17.9	174	56.5	79	25.6
Leukemia (204-208)	282	7	2.5	238	84.4	37	13.1
Benign neoplasms (210-229)	19	1	5.3	13	68.4	5	26.3
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	65	6	9.2	45	69.2	14	21.5
Diabetes mellitus (250)	816	117	14.3	490	60.0	209	25.6
Alzheimer's dementia (290.1)	300	10	3.3	208	69.3	82	27.3
Alcoholic psychoses & alcoholism (291, 303)	128	29	22.7	58	45.3	41	32.0
Drug dependence (304)	22	-	-	19	86.4	3	13.6
Alzheimer's disease (331.0)	418	11	2.6	303	72.5	104	24.9
Parkinson's disease (332.0)	214	6	2.8	163	76.2	45	21.0
Epilepsy (345)	18	-	-	18	100.0	-	-
Major cardiovascular diseases (390-448)	10,924	2,162	19.8	5,503	50.4	3,259	29.8
Diseases of the heart (390-398, 402, 404-429)	7,511	1,674	22.3	3,576	47.6	2,261	30.1
Rheumatic fever & chronic rheumatic heart disease (390-398)	80	5	6.3	54	67.5	21	26.2
Hypertensive heart disease with or without renal disease (402, 404)	254	40	15.7	143	56.3	71	28.0
Ischemic heart disease (410-414)	4,861	1,287	26.5	2,095	43.1	1,479	30.4
Myocardial infarction (410)	1,845	525	28.5	760	41.2	560	30.4
Chronic ischemic heart disease (412-414)	3,013	762	25.3	1,332	44.2	919	30.5
All other forms (415-429)	2,316	342	14.8	1,284	55.4	690	29.8
Hypertension (401, 403)	229	32	14.0	134	58.5	63	27.5
Cerebrovascular disease (430-438)	2,582	298	11.5	1,516	58.7	768	29.7
Subarachnoid hemorrhage (430)	99	11	11.1	59	59.6	29	29.3
Intracerebral & intracranial hemorrhages (431-432)	304	32	10.5	187	61.5	85	28.0
Cerebral thrombosis & embolism (434)	279	14	5.0	192	68.8	73	26.2
Acute but ill-defined cerebrovascular disease (436)	1,504	189	12.6	842	56.0	473	31.4
Generalized ischemic cerebrovascular disease (437)	189	25	13.2	111	58.7	53	28.0
Arteriosclerosis (440)	237	51	21.5	144	60.8	42	17.7
Other diseases of arteries, arterioles and capillaries (441-448)	365	107	29.3	133	36.4	125	34.2
Pneumonia (480-486)	889	124	13.9	539	60.6	226	25.4
Influenza (487)	20	-	-	14	70.0	6	30.0
Bronchitis, emphysema, asthma and COPD (490-496)	1,648	1,317	79.9	136	8.3	195	11.8
Chronic and unspecified bronchitis (490-491)	52	32	61.5	9	17.3	11	21.2
Emphysema (492)	344	303	88.1	13	3.8	28	8.1
Asthma (493)	87	30	34.5	42	48.3	15	17.2
Chronic obstructive pulmonary disease (496)	1,143	948	82.9	61	5.3	134	11.7
Gastric, duodenal, or peptic ulcer (531-533)	79	9	11.4	50	63.3	20	25.3
Hernia & intestinal obstruction (550-553, 560)	66	6	9.1	43	65.2	17	25.8
Cirrhosis of the liver (571)	302	40	13.2	187	61.9	75	24.8
Alcoholic cirrhosis (571.0-571.3)	237	38	16.0	143	60.3	56	23.6
Diseases of the gallbladder (574-576)	60	8	13.3	42	70.0	10	16.7
Diseases of the pancreas (577)	27	4	14.8	17	63.0	6	22.2
Nephritis & nephrosis (580-589)	166	19	11.4	105	63.3	42	25.3
Complications of pregnancy, childbirth & the puerperium (630-676)	5	-	-	4	80.0	1	20.0
Congenital anomalies (740-759)	174	9	5.2	141	81.0	24	13.8
Perinatal conditions (760-779)	102	1	1.0	92	90.2	9	8.8
Unintentional injuries (800-949)	1,281	44	3.4	1,047	81.7	190	14.8
Motor vehicle-related (810-825)	543	11	2.0	461	84.9	71	13.1
Suicides (950-959)	538	7	1.3	492	91.4	39	7.2
Homicides (960-978)	131	2	1.5	120	91.6	9	6.9
Injuries undetermined whether accidentally or purposely inflicted (980-989)	50	2	4.0	37	74.0	11	22.0

<sup>1</sup> The Oregon death certificate asks, "Did tobacco use contribute to the death?" followed by four check boxes: "Yes," "No," "Probably," and "Unknown." This category includes deaths listed as "Yes" or "Probably."

**TABLE 6-20.**  
**Tobacco-Related Deaths by County of Residence, Oregon, 1997**

County of Residence	Total Deaths	Linked to Tobacco Use <sup>1</sup>		Not Linked to Tobacco Use		Unknown	
		Number	Percent	Number	Percent	Number	Percent
<b>Total</b>	28,750	6,379	22.2	15,608	54.3	6,763	23.5
Baker	225	46	20.4	121	53.8	58	25.8
Benton	437	89	20.4	269	61.6	79	18.1
Clackamas	2,525	476	18.9	1,476	58.5	573	22.7
Clatsop	366	83	22.7	207	56.6	76	20.8
Columbia	354	83	23.4	209	59.0	62	17.5
Coos	815	224	27.5	379	46.5	212	26.0
Crook	172	45	26.2	99	57.6	28	16.3
Curry	280	59	21.1	101	36.1	120	42.9
Deschutes	762	143	18.8	371	48.7	248	32.5
Douglas	1,175	297	25.3	499	42.5	379	32.3
Gilliam	16	3	18.8	10	62.5	3	18.8
Grant	88	26	29.5	51	58.0	11	12.5
Harney	78	21	26.9	25	32.1	32	41.0
Hood River	165	32	19.4	106	64.2	27	16.4
Jackson	1,703	420	24.7	778	45.7	505	29.7
Jefferson	143	37	25.9	81	56.6	25	17.5
Josephine	917	224	24.4	459	50.1	234	25.5
Klamath	665	174	26.2	308	46.3	183	27.5
Lake	71	25	35.2	27	38.0	19	26.8
Lane	2,690	612	22.8	1,387	51.6	691	25.7
Lincoln	500	133	26.6	222	44.4	145	29.0
Linn	1,011	233	23.0	569	56.3	209	20.7
Malheur	294	48	16.3	118	40.1	128	43.5
Marion	2,411	512	21.2	1,424	59.1	475	19.7
Morrow	77	20	26.0	36	46.8	21	27.3
Multnomah	5,693	1,209	21.2	3,178	55.8	1,306	22.9
Polk	482	100	20.7	291	60.4	91	18.9
Sherman	18	6	33.3	7	38.9	5	27.8
Tillamook	277	62	22.4	157	56.7	58	20.9
Umatilla	603	168	27.9	284	47.1	151	25.0
Union	251	61	24.3	126	50.2	64	25.5
Wallowa	90	27	30.0	54	60.0	9	10.0
Wasco	265	79	29.8	142	53.6	44	16.6
Washington	2,435	460	18.9	1,583	65.0	392	16.1
Wheeler	21	4	19.0	13	61.9	4	19.0
Yamhill	675	138	20.4	441	65.3	96	14.2

<sup>1</sup> The Oregon death certificate asks, "Did tobacco use contribute to the death?" followed by four check boxes: "Yes," "No," "Probably," and "Unknown." This category includes deaths listed as "Yes" or "Probably."

**TABLE 6-21.**  
**Deaths Due to Alcohol or Drugs by Sex, Age, Race/Ethnicity, and Educational Attainment,**  
**Oregon Residents, 1997**

Sex, Age, Race/Ethnicity, and Education	Total		Alcoholic Dependence Syndrome		Chronic Alcoholic Liver Disease		Other Alcoholic Disorders <sup>1</sup>		Drug Psychosis, Abuse, and Dependence <sup>2</sup>		Unintended Injuries		Suicides		Und ↓
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#
Total	678	100	123	100	237	100	22	100	37	100	169	100	67	100	2
<b>Sex</b>															
Male	485	72	98	80	152	64	15	68	31	84	138	82	35	52	1
Female	193	28	25	20	85	36	7	32	6	16	31	18	32	48	
<b>Age</b>															
0-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5-14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15-24	16	2	2	2	-	-	-	-	2	5	8	5	3	4	
25-34	62	9	3	2	6	3	-	-	9	24	36	21	6	9	
35-44	181	27	18	15	38	16	1	5	18	49	72	43	21	31	1
45-54	166	24	23	19	65	27	3	14	4	11	44	26	21	31	
55-64	118	17	43	35	55	23	4	18	2	5	5	3	9	13	
65-74	90	13	20	16	53	22	8	36	1	3	2	1	6	9	
75-84	41	6	14	11	19	8	4	18	1	3	2	1	1	1	
85+	4	1	-	-	1	-	2	9	-	-	-	-	-	-	
<b>Race/Ethnicity</b>															
White	630	93	117	95	221	93	22	100	31	84	156	92	63	94	2
African American	19	3	-	-	6	3	-	-	3	8	8	5	1	1	
Indian	20	3	4	3	7	3	-	-	2	5	4	2	1	1	
Chinese & Japanese	1	-	-	-	-	-	-	-	-	-	-	-	1	1	
Other Asian & Pacific Islander	3	-	1	1	1	-	-	-	-	-	1	1	-	-	
Other & Not Stated	5	1	1	1	2	1	-	-	1	3	-	-	1	1	
Hispanic <sup>3</sup>	20	3	3	2	5	2	-	-	4	11	8	5	-	-	
<b>Years of Education</b>															
<9	39	6	15	12	13	5	2	9	2	5	5	3	2	3	
9-11	103	15	17	14	31	13	4	18	11	30	29	17	6	9	
12	297	44	41	33	114	48	12	55	15	41	83	49	23	34	
13-15	128	19	25	20	41	17	1	5	5	14	31	18	17	25	
16	42	6	9	7	16	7	3	14	1	3	7	4	6	9	
17+	33	5	9	7	11	5	-	-	-	-	4	2	9	13	
Not Stated	36	5	7	6	11	5	-	-	3	8	10	6	4	6	

<sup>1</sup> Includes alcoholic gastritis, alcoholic polyneuropathy, alcoholic cardiomyopathy, alcoholic psychosis, and non-dependent abuse of alcohol.

<sup>2</sup> Excludes tobacco dependence.

<sup>3</sup> Hispanics may be of any race.

Drug overdoses are included in "drug psychosis, abuse and dependence," if the decedent was reported to be a chronic drug abuser and in "unintended injuries" indicated.

-Quantity is zero.

**TABLE 6-22.**  
**Deaths Due to Alcohol or Drugs by County of Residence, Oregon, 1997**

County of Residence	Total		Alcoholic Dependence Syndrome		Chronic Alcoholic Liver Disease		Other Alcoholic Disorders <sup>1</sup>		Drug Psychosis, Abuse, and Dependence <sup>2</sup>		Unintended Injuries		Suicides	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total	678	100	123	100	237	100	22	100	37	100	169	100	67	100
Baker	2	-	-	-	1	-	-	-	-	-	-	-	1	1
Benton	5	1	-	-	2	1	-	-	-	-	1	1	2	3
Clackamas	55	8	7	6	21	9	2	9	4	11	11	7	8	12
Clatsop	8	1	2	2	3	1	-	-	-	-	1	1	1	1
Columbia	12	2	6	5	5	2	-	-	1	3	-	-	-	-
Coos	24	4	2	2	13	5	2	9	1	3	3	2	3	4
Crook	2	-	1	1	-	-	-	-	-	-	1	1	-	-
Curry	3	-	-	-	2	1	-	-	-	-	-	-	1	1
Deschutes	17	3	3	2	11	5	-	-	-	-	2	1	-	-
Douglas	23	3	5	4	12	5	1	5	-	-	1	1	4	6
Gilliam	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grant	1	-	-	-	1	-	-	-	-	-	-	-	-	-
Hamey	2	-	2	2	-	-	-	-	-	-	-	-	-	-
Hood River	1	-	-	-	1	-	-	-	-	-	-	-	-	-
Jackson	36	5	8	7	14	6	2	9	3	8	5	3	3	4
Jefferson	6	1	-	-	4	2	-	-	-	-	2	1	-	-
Josephine	17	3	5	4	5	2	1	5	2	5	2	1	-	-
Klamath	12	2	3	2	6	3	1	5	-	-	1	1	1	1
Lake	1	-	1	1	-	-	-	-	-	-	-	-	-	-
Lane	74	11	12	10	21	9	3	14	1	3	25	15	8	12
Lincoln	11	2	1	1	7	3	1	5	-	-	-	-	2	3
Linn	9	1	2	2	3	1	-	-	-	-	2	1	2	3
Malheur	2	-	2	2	-	-	-	-	-	-	-	-	-	-
Marion	40	6	4	3	14	6	-	-	8	22	7	4	6	9
Morrow	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Multnomah	237	35	41	33	63	27	4	18	16	43	92	54	13	19
Polk	6	1	-	-	3	1	1	5	-	-	1	1	1	1
Sherman	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tillamook	3	-	1	1	2	1	-	-	-	-	-	-	-	-
Umatilla	6	1	2	2	1	-	-	-	-	-	-	-	2	3
Union	3	-	-	-	3	1	-	-	-	-	-	-	-	-
Wallowa	1	-	-	-	1	-	-	-	-	-	-	-	-	-
Wasco	6	1	1	1	1	-	1	5	-	-	1	1	2	3
Washington	45	7	11	9	15	6	2	9	1	3	7	4	7	10
Wheeler	1	-	-	-	-	-	-	-	-	-	1	1	-	-
Yamhill	7	1	1	1	2	1	1	5	-	-	3	2	-	-

<sup>1</sup> Includes alcoholic gastritis, alcoholic polyneuropathy, alcoholic cardiomyopathy, and alcoholic psychosis.

<sup>2</sup> Excludes tobacco dependence.

NOTE: Drug overdoses are included in "drug psychosis, abuse and dependence," if the decedent was reported to be a chronic drug "unintended injuries" if not so indicated.

- Quantity is zero.

**TABLE 6-23.**  
**Leading Causes of Death by County of Residence, Oregon, 1997**

County of Residence	Total	Diseases of the Heart	Malignant Neoplasms	Cerebrovascular Disease	Chronic Obstructive Pulmonary Disease	Unintended Injuries	Influenza and Pneumonia	Diabetes Mellitus	Alzheimer's Disease	Suicide	Alcoholism <sup>2</sup>
<b>Total</b>	28,750	7,500	6,790	2,582	1,648	1,281	909	816	718	538	382
Rate <sup>1</sup>	893.7	233.1	211.1	80.3	51.2	39.8	28.3	25.4	22.3	16.7	11.9
Baker	225	55	63	16	19	15	7	2	4	7	1
Benton	437	106	94	57	23	22	20	5	19	11	2
Clackamas	2,525	694	599	234	122	109	86	67	66	50	30
Clatsop	366	111	90	23	15	25	13	15	11	6	5
Columbia	354	105	80	29	30	14	7	9	7	6	11
Coos	815	207	207	62	46	39	25	25	27	20	17
Crook	172	62	34	10	16	8	4	2	-	3	1
Curry	280	95	77	21	11	7	8	10	1	8	2
Deschutes	762	212	184	72	33	32	23	12	14	14	14
Douglas	1,175	345	278	78	76	46	35	35	38	21	18
Gilliam	16	3	5	-	1	1	1	-	2	-	-
Grant	88	17	27	5	5	3	10	1	2	2	1
Harney	78	24	21	8	9	4	1	1	1	-	2
Hood River	165	45	39	13	7	12	6	6	3	1	1
Jackson	1,703	471	421	154	118	41	53	45	42	31	24
Jefferson	143	38	26	14	6	17	5	3	1	10	4
Josephine	917	242	220	126	57	26	24	17	23	14	11
Klamath	665	164	134	34	55	42	17	19	26	14	10
Lake	71	17	22	5	5	4	-	3	-	1	1
Lane	2,690	611	668	217	165	138	84	80	58	62	36
Lincoln	500	130	128	43	21	14	19	16	2	15	9
Linn	1,011	285	248	87	42	47	35	21	35	12	5
Malheur	294	82	61	27	20	11	10	14	10	1	2
Marion	2,411	639	537	331	121	96	76	79	36	36	18
Morrow	77	24	22	6	4	3	2	1	-	1	-
Multnomah	5,693	1,365	1,285	478	330	274	181	189	150	106	108
Polk	482	129	117	70	18	27	17	9	6	5	4
Sherman	18	4	6	-	2	1	2	2	-	-	-
Tillamook	277	75	71	21	17	21	6	3	9	7	3
Umatilla	603	161	140	47	45	34	21	16	11	9	3
Union	251	60	55	22	18	10	7	12	4	4	3
Wallowa	90	30	23	6	4	3	3	-	4	-	1
Wasco	265	73	72	18	21	12	10	1	4	5	3
Washington	2,435	634	584	195	129	88	76	81	83	40	28
Wheeler	21	9	4	-	2	2	-	1	-	-	-
Yamhill	675	176	148	53	35	33	15	14	19	16	4

- Quantity is zero.

<sup>1</sup> Rates per 100,000 population.

<sup>2</sup> Also includes alcoholic psychosis, alcoholic dependence syndrome, alcoholic gastritis, alcoholic polyneuropathy, alcoholic cardiomyopathy, and alcoholic liver disease.

**TABLE 6-23.**  
**Leading Causes of Death by County of Residence,**  
**Oregon, 1997 (Continued)**

County of Residence	Other Diseases of the Arteries	Arteriosclerosis	Hypertension with or without Renal Disease	Parkinsonism	Congenital Anomalies	Nephritis and Nephrosis	Homicide and Legal Intervention	Perinatal Conditions	Septicemia	Acquired Immune Deficiency Syndrome	Gastrointestinal Ulcers	All Other Causes
<b>Total</b>	365	237	229	214	174	166	131	102	99	93	79	3,697
<b>Rate<sup>1</sup></b>	11.3	7.4	7.1	6.7	5.4	5.2	4.1	3.2	3.1	2.9	2.5	114.9
Baker	3	3	1	1	1	-	1	-	1	-	-	25
Benton	2	4	4	5	4	4	-	1	1	1	-	52
Clackamas	27	20	17	15	25	9	13	9	13	7	5	308
Clatsop	6	1	2	1	1	3	2	-	-	1	1	34
Columbia	4	1	2	2	2	2	1	-	3	1	-	38
Coos	13	15	5	6	4	5	5	1	2	-	1	83
Crook	2	9	1	-	-	1	2	1	1	-	-	15
Curry	5	1	2	1	-	-	-	-	-	-	1	30
Deschutes	12	10	2	7	6	6	3	1	3	1	3	98
Douglas	11	12	8	6	6	8	3	5	2	4	1	139
Gilliam	1	-	-	1	1	-	-	-	-	-	-	-
Grant	3	-	-	-	-	1	2	1	-	-	2	6
Harney	1	-	-	-	-	-	-	-	-	-	-	6
Hood River	2	2	1	1	-	-	-	-	2	1	-	23
Jackson	23	4	14	10	8	6	6	4	4	4	5	215
Jefferson	2	-	-	-	1	1	1	-	2	-	-	12
Josephine	14	4	8	8	5	3	2	1	1	1	2	108
Klamath	11	3	6	2	4	5	4	3	2	-	2	108
Lake	2	-	-	-	-	-	-	-	-	-	1	10
Lane	46	25	24	26	12	15	7	11	6	5	6	388
Lincoln	6	2	4	4	1	7	2	-	2	1	-	74
Linn	12	4	2	7	7	7	1	3	6	1	4	140
Malheur	3	1	4	5	2	4	-	3	1	-	2	31
Marion	20	15	23	18	20	9	7	13	11	5	8	293
Morrow	-	-	-	-	-	1	-	1	-	-	-	12
Multnomah	72	57	62	49	29	30	53	21	20	52	13	769
Polk	6	2	2	3	3	6	-	3	1	1	2	51
Sherman	-	-	-	-	-	-	-	-	-	-	-	1
Tillamook	3	-	5	1	3	-	-	-	1	-	-	31
Umatilla	8	5	5	7	1	6	4	3	1	-	3	73
Union	3	-	2	2	3	-	-	-	-	1	3	42
Wallowa	1	1	1	-	-	-	2	-	-	-	1	10
Wasco	2	-	4	2	1	1	1	1	2	-	-	32
Washington	31	31	13	19	19	15	6	13	10	5	10	325
Wheeler	-	-	-	-	-	-	-	-	-	-	1	2
Yamhill	8	5	5	5	5	11	3	3	1	1	2	113

<sup>1</sup> Rates per 100,000 population.

- Quantity is zero.

**TABLE 6-24.**  
**Deaths by Age, Sex, and County of Residence, Oregon, 1997**

County of Residence	Total	Total		< 1		1-4		5-14		15-24	
		M	F	M	F	M	F	M	F	M	F
<b>Total</b>	28,750	14,269	14,481	148	108	40	21	52	39	257	96
Baker	225	125	100	1	-	-	-	-	-	-	-
Benton	437	203	234	1	2	-	-	-	-	6	2
Clackamas	2,525	1,244	1,281	23	7	6	2	3	7	18	9
Clatsop	366	178	188	1	-	-	-	2	-	5	4
Columbia	354	183	171	2	-	2	-	-	-	2	1
Coos	815	421	394	-	4	1	1	1	-	3	2
Crook	172	89	83	-	1	-	-	-	-	2	1
Curry	280	158	122	-	-	-	-	-	-	1	-
Deschutes	762	384	378	3	3	2	-	1	1	6	2
Douglas	1,175	626	549	8	4	-	2	4	2	12	6
Gilliam	16	8	8	-	-	-	-	-	-	-	-
Grant	88	43	45	-	1	-	-	-	-	-	1
Harney	78	44	34	-	-	-	-	-	-	2	-
Hood River	165	83	82	1	-	-	1	1	-	-	-
Jackson	1,703	854	849	7	4	3	-	4	2	11	2
Jefferson	143	78	65	1	-	2	-	1	1	6	1
Josephine	917	464	453	1	-	-	-	-	-	2	4
Klamath	665	335	330	6	2	-	1	2	-	10	5
Lake	71	35	36	-	-	-	-	-	-	-	-
Lane	2,690	1,352	1,338	14	4	5	4	6	2	28	12
Lincoln	500	266	234	1	1	-	-	3	1	4	-
Linn	1,011	496	515	5	5	2	1	2	3	6	1
Malheur	294	152	142	2	2	1	1	-	-	1	-
Marion	2,411	1,168	1,243	22	13	4	1	4	5	27	6
Morrow	77	38	39	-	1	-	-	-	-	1	-
Multnomah	5,693	2,797	2,896	23	22	8	5	7	8	53	14
Polk	482	240	242	2	2	-	-	-	-	5	4
Sherman	18	12	6	-	-	-	-	-	-	-	-
Tillamook	277	137	140	-	-	-	1	-	1	3	1
Umatilla	603	312	291	2	4	2	-	2	-	6	1
Union	251	123	128	2	2	-	-	-	1	1	1
Wallowa	90	38	52	-	-	-	-	-	-	-	-
Wasco	265	143	122	1	1	-	-	-	-	3	-
Washington	2,435	1,111	1,324	15	17	2	1	5	4	29	11
Wheeler	21	13	8	-	-	-	-	-	-	-	1
Yamhill	675	316	359	4	6	-	-	4	1	4	4

- Quantity is zero.

**TABLE 6-24.**  
**Deaths by Age, Sex, and County of Residence, Oregon, 1997 (Continued)**

County of Residence	25-34		35-44		45-54		55-64		65-74		75+	
	M	F	M	F	M	F	M	F	M	F	M	F
<b>Total</b>	329	139	636	330	1,030	666	1,458	1,076	3,029	2,363	7,290	9,643
Baker	3	1	4	1	8	2	17	7	22	20	70	69
Benton	4	1	8	5	14	14	9	8	39	42	122	160
Clackamas	21	13	51	22	101	61	127	90	253	215	641	855
Clatsop	2	2	9	3	17	8	15	17	36	33	91	121
Columbia	5	6	5	4	10	9	22	13	40	35	95	103
Coos	9	1	10	8	28	17	53	36	107	70	209	255
Crook	3	1	3	4	2	2	3	7	26	16	50	51
Curry	2	-	11	2	8	6	16	8	43	34	77	72
Deschutes	7	3	15	12	36	19	39	29	71	46	204	263
Douglas	6	5	18	8	43	20	55	50	159	98	321	354
Gilliam	1	-	-	-	-	-	-	-	1	2	6	6
Grant	3	-	-	-	3	3	3	7	10	7	24	26
Harney	1	-	-	2	4	1	5	3	11	7	21	21
Hood River	4	1	4	1	3	-	6	4	14	16	50	59
Jackson	10	6	26	16	45	35	92	73	213	143	443	568
Jefferson	5	2	2	1	6	2	5	8	15	15	35	35
Josephine	4	2	21	5	24	13	50	41	104	78	258	310
Klamath	10	3	13	9	27	15	36	39	63	63	168	193
Lake	-	-	1	-	3	1	3	4	8	7	20	24
Lane	26	19	57	34	103	78	131	97	289	204	693	884
Lincoln	5	3	10	8	29	7	30	18	58	50	126	146
Linn	10	5	16	11	33	22	51	40	102	85	269	342
Malheur	1	-	4	1	11	6	14	11	28	29	90	92
Marion	23	4	62	28	64	49	113	81	232	182	617	874
Morrow	-	-	-	1	2	1	10	3	7	10	18	23
Multnomah	99	36	202	86	253	156	299	208	581	414	1272	1947
Polk	6	2	8	6	12	9	24	14	41	53	142	152
Sherman	1	-	-	-	1	-	1	1	-	2	9	3
Tillamook	4	-	4	1	10	7	9	7	44	32	63	90
Umatilla	7	3	14	7	22	13	40	27	57	42	160	194
Union	1	-	4	-	10	9	13	3	25	17	67	95
Wallowa	2	-	-	1	4	-	4	6	3	11	25	34
Wasco	1	1	6	2	4	2	9	14	39	23	80	79
Washington	35	15	41	34	68	65	121	81	231	201	564	895
Wheeler	-	-	-	-	-	-	1	-	3	2	9	5
Yamhill	8	4	7	7	22	14	32	21	54	59	181	243

- Quantity is zero.

**TABLE 6-25.**  
**Years of Potential Life Lost Before Age 65 for Selected**  
**Causes of Death, by County of Residence, Oregon, 1997**

County of Residence	Total	Unintentional Injuries	Cancer	Heart Disease	Suicide	Perinatal Conditions	Congenital Anomalies	Homicide and Legal Intervention	Alcoholism*	Cerebrovascular Disease	Sudden Infant Death Syndrome
<b>Total</b>	120,508	27,322	21,233	12,697	10,937	6,596	5,867	4,169	3,783	2,432	2,323
Baker	555	124	76	94	54	-	65	3	28	4	-
Benton	1,582	423	241	139	319	65	130	-	11	57	-
Clackamas	10,818	2,349	2,089	913	872	583	737	594	305	53	323
Clatsop	1,568	568	321	108	126	-	19	90	31	1	65
Columbia	1,458	340	169	163	80	-	65	30	156	121	-
Coos	2,663	595	502	355	396	65	130	150	103	43	-
Crook	622	214	91	38	95	65	-	40	5	-	-
Curry	730	128	143	160	114	-	-	-	13	24	-
Deschutes	3,133	873	510	246	315	65	243	54	161	45	65
Douglas	4,602	1,071	769	467	483	325	267	74	96	132	65
Gilliam	35	35	-	-	-	-	-	-	-	-	0
Grant	357	50	58	52	38	65	-	52	15	-	0
Harney	313	133	116	23	-	-	-	-	7	-	0
Hood River	597	332	64	50	16	-	-	-	29	-	65
Jackson	5,464	884	1,155	595	544	249	324	155	294	113	65
Jefferson	1,148	562	27	61	221	-	20	45	34	-	65
Josephine	2,158	304	524	317	264	65	24	34	66	83	0
Klamath	3,419	946	437	439	353	195	148	122	107	93	65
Lake	126	32	52	25	-	-	-	-	7	-	0
Lane	11,737	2,684	2,375	975	1,377	715	228	300	380	234	65
Lincoln	2,050	335	372	350	278	-	65	85	100	42	0
Linn	3,907	1,124	698	705	185	195	170	16	69	119	129
Malheur	965	125	231	51	30	195	127	-	20	18	0
Marion	10,358	2,108	1,544	1,404	811	827	993	172	117	193	323
Morrow	239	54	37	34	-	65	-	-	-	34	0
Multnomah	28,491	5,936	4,655	2,750	2,044	1,363	1,132	1,646	1123	541	323
Polk	1,771	471	408	109	162	195	79	-	24	11	0
Sherman	57	14	8	-	-	-	-	-	-	-	0
Tillamook	926	536	55	120	79	-	18	-	33	-	0
Umatilla	2,679	729	407	327	193	195	-	141	39	93	129
Union	879	146	115	73	44	-	130	-	33	-	65
Wallowa	204	22	65	1	-	-	-	70	15	-	0
Wasco	728	199	73	123	117	65	-	6	37	-	65
Washington	11,239	2,145	2,287	1,249	1,033	845	599	208	301	255	323
Wheeler	47	47	-	-	-	-	-	-	-	-	0
Yamhill	2,885	686	559	181	294	195	155	83	24	123	129

\*Includes alcoholic psychosis, alcoholic dependence syndrome, alcoholic gastritis, alcoholic cardiomyopathy, alcoholic polyneuropathy, and alcoholic liver disease.

**TABLE 6-25.**  
**Years of Potential Life Lost Before Age 65 for Selected Causes of Death, by County of Residence, Oregon, 1997 (Continued)**

County of Residence	Acquired Immune Deficiency Syndrome	Diabetes	Chronic Obstructive Pulmonary Disease	Undetermined Manner <sup>1</sup>	Pneumonia and Influenza	Hepatitis	Other Diseases of the Arteries	Epilepsy	Nephritis and Nephrosis	Meningitis	Septicemia
<b>Total</b>	2,286	2,036	1,660	1,413	1,313	663	587	483	388	189	185
Baker	-	-	3	-	-	-	-	25	-	-	-
Benton	24	6	20	30	19	-	6	-	19	-	-
Clackamas	133	150	136	144	176	50	33	11	-	-	60
Clatsop	44	19	3	22	4	-	-	22	8	-	-
Columbia	33	9	11	22	30	5	1	-	-	-	1
Coos	-	62	27	-	12	-	10	-	19	-	-
Crook	-	-	5	-	-	-	-	-	37	-	15
Curry	-	39	15	-	26	-	-	-	-	-	-
Deschutes	27	16	24	69	23	16	10	-	22	-	11
Douglas	125	47	35	16	9	-	14	-	7	-	-
Gilliam	-	-	-	-	-	-	-	-	-	-	-
Grant	-	-	7	-	-	-	-	-	-	-	-
Harney	-	-	-	34	-	-	-	-	-	-	-
Hood River	-	-	-	-	-	-	-	-	-	-	-
Jackson	91	66	94	21	99	16	48	-	8	65	5
Jefferson	-	-	40	-	-	3	-	-	-	-	-
Josephine	32	21	26	30	39	24	9	-	1	-	-
Klamath	-	124	36	-	14	-	5	-	21	-	-
Lake	-	-	5	-	-	-	-	-	-	-	-
Lane	160	110	232	255	97	13	145	107	31	29	22
Lincoln	33	57	24	65	29	16	14	-	-	-	-
Linn	-	15	28	-	-	-	10	-	36	5	12
Malheur	-	40	-	-	-	-	-	-	-	-	-
Marion	97	233	130	77	150	-	65	136	3	-	6
Morrow	-	-	10	-	-	-	-	-	-	-	-
Multnomah	1248	764	535	419	306	331	167	154	54	26	11
Polk	34	3	48	-	75	42	-	-	-	-	17
Sherman	-	-	-	-	-	-	-	-	-	-	-
Tillamook	-	-	4	-	-	11	-	-	-	-	-
Umatilla	-	43	41	23	-	27	3	-	15	-	-
Union	18	68	43	65	11	-	18	-	-	-	-
Wallowa	-	-	3	-	-	-	-	-	-	-	-
Wasco	-	-	-	-	-	-	-	28	-	-	-
Washington	163	110	68	122	196	70	29	-	101	-	16
Wheeler	-	-	-	-	-	-	-	-	-	-	-
Yamhill	24	34	7	-	-	39	-	-	6	65	9

<sup>1</sup> Injuries undetermined whether accidentally or purposely inflicted.

**TABLE 6-26.**  
**Median Age at Death, by Sex and County of Residence,**  
**Oregon Residents, 1997**

County of Residence	Total		Male		Female	
	Number	Median	Number	Median	Number	Median
<b>Total</b>	28,750	78	14,269	75	14,481	81
Baker	225	80	125	77	100	82
Benton	437	79	203	78	234	81
Clackamas	2,525	78	1,244	75	1,281	81
Clatsop	366	78	178	75	188	79
Columbia	354	76	183	75	171	78
Coos	815	77	421	74	394	80
Crook	172	77	89	76	83	79
Curry	280	76	158	74	122	79
Deschutes	762	78	384	76	378	81
Douglas	1,175	77	626	75	549	79
Gilliam	16	80	8	80	8	81
Grant	88	78	43	77	45	79
Harney	78	76	44	73	34	78
Hood River	165	80	83	79	82	81
Jackson	1,703	77	854	75	849	81
Jefferson	143	74	78	72	65	77
Josephine	917	79	464	76	453	81
Klamath	665	76	335	75	330	78
Lake	71	77	35	75	36	79
Lane	2,690	77	1,352	75	1,338	80
Lincoln	500	76	266	74	234	79
Linn	1,011	78	496	76	515	81
Malheur	294	78	152	76	142	80
Marion	2,411	79	1,168	75	1,243	82
Morrow	77	78	38	72	39	79
Multnomah	5,693	77	2,797	73	2,896	81
Polk	482	78	240	77	242	79
Sherman	18	79	12	79	6	76
Tillamook	277	77	137	73	140	81
Umatilla	603	78	312	75	291	80
Union	251	79	123	78	128	82
Wallowa	90	79	38	78	52	80
Wasco	265	78	143	76	122	80
Washington	2,435	78	1,111	75	1,324	81
Wheeler	21	79	13	77	8	88
Yamhill	675	79	316	77	359	81

**TABLE 6-27.**  
**Deaths by County of Residence by Race and Hispanic Ethnicity,**  
**Oregon Residents, 1997**

County of Residence	Total	Race							Hispanic <sup>2</sup>
		White	African American	Indian	Chinese	Japanese	Other Asian and Pacific Islander	Other Non-white and Not Stated <sup>1</sup>	
<b>Total</b>	28,750	27,831	373	244	60	67	114	61	368
Baker	225	224	-	1	-	-	-	-	-
Benton	437	430	-	1	3	3	-	-	2
Clackamas	2,525	2,489	12	7	-	5	8	4	21
Clatsop	366	359	1	2	-	2	1	1	-
Columbia	354	350	2	2	-	-	-	-	-
Coos	815	802	-	11	1	-	1	-	3
Crook	172	172	-	-	-	-	-	-	1
Curry	280	276	-	3	-	-	-	1	1
Deschutes	762	756	1	2	-	-	2	1	6
Douglas	1,175	1,158	-	9	1	1	3	3	8
Gilliam	16	16	-	-	-	-	-	-	1
Grant	88	87	-	1	-	-	-	-	1
Harney	78	74	-	3	-	1	-	-	-
Hood River	165	158	1	2	-	3	-	1	4
Jackson	1,703	1,685	4	9	1	2	2	-	16
Jefferson	143	119	-	24	-	-	-	-	2
Josephine	917	907	-	9	-	-	1	-	5
Klamath	665	635	5	24	-	-	-	1	5
Lake	71	70	-	1	-	-	-	-	-
Lane	2,690	2,652	10	9	3	5	5	6	22
Lincoln	500	486	-	13	-	1	-	-	5
Linn	1,011	988	-	18	2	-	2	1	9
Malheur	294	283	1	2	-	8	-	-	24
Marion	2,411	2,378	5	12	2	3	5	6	61
Morrow	77	77	-	-	-	-	-	-	-
Multnomah	5,693	5,190	311	48	30	22	63	29	88
Polk	482	478	1	1	-	1	-	1	5
Sherman	18	18	-	-	-	-	-	-	-
Tillamook	277	275	-	1	-	-	-	1	2
Umatilla	603	579	2	18	2	1	-	1	14
Union	251	249	1	-	-	-	1	-	-
Wallowa	90	90	-	-	-	-	-	-	-
Wasco	265	259	-	5	-	1	-	-	3
Washington	2,435	2,371	16	3	15	8	19	3	50
Wheeler	21	21	-	-	-	-	-	-	-
Yamhill	675	670	-	3	-	-	1	1	9

<sup>1</sup> "Other non-white" includes groups where fewer than 50 deaths were recorded (e.g., Hawaiian, Filipino).

<sup>2</sup> Decedents are classified by race and ethnicity. Most Hispanic decedents were white (349) with the remainder belonging to other races.

**TABLE 6-28.**  
**All Deaths and Medical Examiner's Cases by County of Occurrence,**  
**Autopsy Status, and Manner of Death, Oregon, 1997**

County of Occurrence	Total Deaths	Total Deaths Autopsied	Percent of Total Deaths Autopsied	M.E. Cases	M.E. Cases Autopsied	Percent of M.E. Cases Autopsied
<b>Total</b>	28,853	1,901	6.6	3,433	1,209	35.2
Baker	194	5	2.6	39	5	12.8
Benton	499	22	4.4	39	10	25.6
Clackamas	2,263	125	5.5	219	89	40.6
Clatsop	331	16	4.8	50	13	26.0
Columbia	200	13	6.5	38	10	26.3
Coos	766	24	3.1	73	13	17.8
Crook	150	4	2.7	33	4	12.1
Curry	195	7	3.6	33	6	18.2
Deschutes	840	38	4.5	115	22	19.1
Douglas	1,146	75	6.5	130	48	36.9
Gilliam	11	1	9.1	1	1	100.0
Grant	83	7	8.4	17	6	35.3
Harney	66	1	1.5	14	1	7.1
Hood River	153	2	1.3	6	2	33.3
Jackson	1,751	54	3.1	161	43	26.7
Jefferson	116	6	5.2	31	6	19.4
Josephine	889	42	4.7	90	39	43.3
Klamath	660	50	7.6	122	43	35.2
Lake	62	7	11.3	13	5	38.5
Lane	2,756	181	6.6	281	122	43.4
Lincoln	448	28	6.3	78	23	29.5
Linn	862	45	5.2	101	34	33.7
Malheur	312	17	5.4	32	10	31.3
Marion	2,403	154	6.4	219	119	54.3
Morrow	52	3	5.8	9	3	33.3
Multnomah	6,898	740	10.7	962	390	40.5
Polk	355	17	4.8	36	14	38.9
Sherman	11	2	18.2	8	2	25.0
Tillamook	235	15	6.4	47	15	31.9
Umatilla	506	26	5.1	76	20	26.3
Union	235	2	0.9	25	2	8.0
Wallowa	83	-	-	9	-	-
Wasco	284	12	4.2	28	6	21.4
Washington	2,401	130	5.4	225	63	28.0
Wheeler	12	1	8.3	4	1	25.0
Yamhill	625	29	4.6	69	19	27.5
Manner of Death						
Natural	26,799	1,223	4.6	1,596	536	33.6
Accident	1,335	435	32.6	1,119	430	38.4
Suicide	535	86	16.1	534	86	16.1
Homicide	133	121	91.0	133	121	91.0
Undetermined	51	36	70.6	51	36	70.6

**TABLE 6-29.**  
**Deaths Occurring in Oregon by Disposal of Remains**  
**and County of Residence, 1997**

County of Residence	Total		Burial		Cremation		Mausoleum		Removal*		Other	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<b>Total</b>	28,853	100	11,218	39	14,487	50	1,172	4	1,858	6	118	0
Baker	203	100	115	57	45	22	1	-	42	21	-	-
Benton	431	100	145	34	249	58	17	4	18	4	2	0
Clackamas	2,472	100	998	40	1,198	48	151	6	114	5	11	0
Clatsop	346	100	113	33	215	62	2	1	14	4	2	1
Columbia	279	100	129	46	129	46	5	2	14	5	2	1
Coos	804	100	254	32	515	64	9	1	21	3	5	1
Crook	170	100	70	41	92	54	-	-	8	5	-	-
Curry	224	100	56	25	161	72	-	-	7	3	-	-
Deschutes	746	100	254	34	434	58	18	2	40	5	-	-
Douglas	1,150	100	445	39	648	56	9	1	47	4	1	0
Gilliam	15	100	11	73	4	27	-	-	-	-	-	-
Grant	87	100	49	56	36	41	-	-	2	2	-	-
Harney	73	100	36	49	34	47	1	1	2	3	-	-
Hood River	159	100	78	49	60	38	6	4	14	9	1	1
Jackson	1,668	100	567	34	972	58	30	2	96	6	3	0
Jefferson	136	100	69	51	59	43	4	3	4	3	-	-
Josephine	896	100	249	28	576	64	22	2	47	5	2	0
Klamath	651	100	250	38	366	56	8	1	27	4	-	-
Lake	69	100	27	39	39	57	1	1	2	3	-	-
Lane	2,642	100	922	35	1,543	58	83	3	87	3	7	0
Lincoln	490	100	127	26	332	68	12	2	16	3	3	1
Linn	993	100	503	51	423	43	37	4	25	3	5	1
Malheur	248	100	134	54	37	15	-	-	77	31	-	-
Marion	2,359	100	1,063	45	1,072	45	115	5	103	4	6	0
Morrow	73	100	42	58	27	37	-	-	4	5	-	-
Multnomah	5,582	100	2,154	39	2,621	47	430	8	334	6	43	1
Polk	475	100	226	48	218	46	8	2	21	4	2	0
Sherman	18	100	11	61	6	33	1	6	-	-	-	-
Tillamook	272	100	110	40	141	52	8	3	12	4	1	0
Umatilla	509	100	286	56	157	31	9	2	56	11	1	0
Union	230	100	144	63	65	28	2	1	19	8	-	-
Wallowa	85	100	41	48	7	8	-	-	37	44	-	-
Wasco	257	100	127	49	113	44	6	2	10	4	1	0
Washington	2,392	100	934	39	1,177	49	132	6	134	6	15	1
Wheeler	21	100	12	57	9	43	-	-	-	-	-	-
Yamhill	666	100	320	48	279	42	38	6	28	4	1	0

- Quantity is zero.

\* Out of State.

**TABLE 6-30.**  
**Deaths Due to Unintended Injury by Principal Classes and County**  
**of Residence, Oregon, 1997**

County of Residence	Total Unintended Injuries	Death Rate <sup>1</sup>	Motor Vehicle	Home	Occupational	Public	Unclassified
<b>Total</b>	1,281	39.8	543	331	31	257	119
Baker	15	90.9	7	2	1	3	2
Benton	22	28.7	14	3	-	4	1
Clackamas	109	34.3	52	33	2	14	8
Clatsop	25	72.5	11	3	-	9	2
Columbia	14	33.7	8	5	-	-	1
Coos	39	63.5	13	7	-	10	9
Crook	8	49.2	3	2	1	2	-
Curry	7	31.5	5	-	-	2	-
Deschutes	32	31.6	21	5	-	5	1
Douglas	46	46.4	33	4	1	5	3
Gilliam	1	51.3	-	-	-	1	-
Grant	3	37.7	2	-	1	-	-
Hamey	4	53.3	3	-	-	1	-
Hood River	12	62.5	7	1	-	3	1
Jackson	41	24.2	16	14	2	8	1
Jefferson	17	99.4	8	1	-	7	1
Josephine	26	35.6	12	6	-	6	2
Klamath	42	68.2	27	5	1	5	4
Lake	4	54.1	2	1	-	-	1
Lane	138	44.7	46	38	4	30	20
Lincoln	14	32.9	9	2	-	3	-
Linn	47	46.7	23	13	2	7	2
Malheur	11	38.3	5	1	-	4	1
Marion	96	35.9	49	20	1	16	10
Morrow	3	33.1	1	-	-	2	-
Multnomah	274	42.9	68	114	6	62	24
Polk	27	47.0	10	7	-	8	2
Sherman	1	52.6	-	-	1	-	-
Tillamook	21	88.2	9	5	-	6	1
Umatilla	34	51.9	14	4	4	10	2
Union	10	40.8	4	1	-	-	5
Wallowa	3	41.1	1	-	-	1	1
Wasco	12	53.1	3	3	-	3	3
Washington	88	22.9	41	26	-	16	5
Wheeler	2	125.0	-	1	1	-	-
Yamhill	33	41.7	16	4	3	4	6

- Quantity is zero.

<sup>1</sup> Rate per 100,000 population.

NOTE: The classes listed above are based on the National Safety Council Classification System. Deaths from injuries that occurred at work and that involved transport vehicles (e.g., cars and airplanes) are included in the appropriate transportation category, not the occupational category. See Table 6-14 for a tally of all deaths resulting from injuries received at work.

**TABLE 6-31.**  
**Unintentional Injury Deaths for Selected Causes,**  
**by County of Injury, Oregon, 1997**

County of Injury	Total Unintentional Injuries	Motor Vehicle	Falls	Poisoning	Drowning	Watercraft	Fires	Other
<b>Total</b>	1,162	555	204	147	68	18	40	130
Baker	16	10	2	-	2	-	-	2
Benton	18	12	5	1	-	-	-	-
Clackamas	93	44	24	7	3	-	1	14
Clatsop	22	8	5	-	5	-	1	3
Columbia	13	7	3	-	2	-	-	1
Coos	22	11	6	1	1	-	-	3
Crook	6	2	1	1	-	-	-	2
Curry	7	4	-	-	1	2	-	-
Deschutes	36	22	5	3	1	-	-	5
Douglas	52	41	5	-	-	1	-	5
Gilliam	-	-	-	-	-	-	-	-
Grant	8	5	-	-	-	-	-	3
Harney	7	6	-	-	-	-	-	1
Hood River	7	3	3	-	-	-	1	-
Jackson	39	22	8	4	2	-	2	1
Jefferson	11	5	2	-	2	-	1	1
Josephine	23	14	1	2	3	-	2	1
Klamath	48	35	2	3	4	-	1	3
Lake	3	-	1	-	-	-	-	2
Lane	126	51	22	27	4	3	6	13
Lincoln	25	12	3	-	1	4	-	5
Linn	46	23	10	3	5	-	1	4
Malheur	13	8	1	-	2	-	-	2
Marion	83	44	16	7	5	1	3	7
Morrow	3	1	-	-	1	-	-	1
Multnomah	237	66	44	76	12	5	13	21
Polk	19	9	5	2	-	-	-	3
Sherman	8	5	-	-	1	1	-	1
Tillamook	26	13	1	-	5	-	5	2
Umatilla	22	7	7	-	3	1	1	3
Union	7	5	-	-	-	-	-	2
Wallowa	3	2	-	-	-	-	-	1
Wasco	14	6	1	1	2	-	2	2
Washington	72	34	19	8	-	-	-	11
Wheeler	2	-	-	-	-	-	-	2
Yamhill	25	18	2	1	1	-	-	3

- Quantity is zero.

TABLE 6-32. Deaths by Selected Causes by City, Oregon Residents, 1997

Selected Causes of Death	Oregon Number	Oregon Rate	City of Residence					
			Portland		Eugene		Salem	
			No.	Rate	No.	Rate	No.	Rate
Total	28,750	893.7	4,821	948.1	1,116	863.1	1,366	1099.9
Tuberculosis (010-018, 137)	10	0.3	1	0.2	-	-	2	1.6
Septicemia (038)	99	3.2	18	3.5	4	3.1	9	7.2
AIDS (042-044)	93	3.0	48	9.4	2	1.5	3	2.4
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	62	2.0	20	3.9	2	1.5	2	1.6
Other infective & parasitic diseases (Residual 001-139)	112	3.6	14	2.8	4	3.1	4	3.2
Malignant neoplasms (140-208)	6,790	220.3	1,081	212.6	259	200.3	309	248.8
Buccal cavity & pharynx (140-149)	123	4.0	15	2.9	3	2.3	9	7.2
Digestive organs & peritoneum (150-159)	1,443	46.8	232	45.6	58	44.9	62	49.9
Large intestine (153)	539	17.5	78	15.3	20	15.5	36	29.0
Pancreas (157)	328	10.6	57	11.2	18	13.9	9	7.2
Respiratory/intrathoracic organs (160-165)	2,101	68.2	340	66.9	75	58.0	98	78.9
Bronchus and lung (162.2-162.9)	2,038	66.1	329	64.7	75	58.0	95	76.5
Malignant melanoma (172)	101	3.3	20	3.9	1	0.8	3	2.4
Other skin (173)	31	1.0	4	0.8	-	-	1	0.8
Breast (174-175)	487	15.8	72	14.2	18	13.9	21	16.9
Genital organs (179-187)	812	26.3	138	27.1	35	27.1	37	29.8
Cervix & uterus (179-182)	129	4.2	22	4.3	2	1.5	9	7.2
Ovary (183.0)	176	5.7	27	5.3	14	10.8	12	9.7
Prostate (185)	475	15.4	84	16.5	19	14.7	14	11.3
Urinary organs (188-189)	308	10.0	42	8.3	8	6.2	14	11.3
Leukemia (204-208)	282	9.1	46	9.0	12	9.3	16	12.9
Benign neoplasms (210-229)	19	0.6	3	0.6	-	-	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	65	2.1	8	1.6	3	2.3	2	1.6
Diabetes mellitus (250)	816	26.5	159	31.3	32	24.7	40	32.2
Nutritional deficiencies (260-269)	33	1.1	7	1.4	1	0.8	-	-
Anemias (280-285)	35	1.1	4	0.8	1	0.8	3	2.4
Alzheimer's dementia (290.1)	300	9.7	56	11.0	17	13.1	6	4.8
Alcoholic psychoses & alcoholism (291, 303)	128	4.2	37	7.3	8	6.2	4	3.2
Drug dependence (304)	22	0.7	6	1.2	1	0.8	4	3.2
Meningitis (320-322)	9	0.3	-	-	2	1.5	-	-
Alzheimer's disease (331.0)	418	13.6	72	14.2	17	13.1	9	7.2
Parkinson's disease (332)	214	6.9	41	8.1	18	13.9	8	6.4
Epilepsy (345)	18	0.6	5	1.0	1	0.8	1	0.8
Major cardiovascular diseases (390-448)	10,924	354.4	1,736	341.4	362	280.0	580	467.0
Diseases of the heart (390-398, 402, 404-429)	7,511	243.7	1,158	227.7	234	181.0	360	289.9
Rheumatic fever & chronic rheumatic heart disease (390-398)	80	2.6	12	2.4	2	1.5	2	1.6
Hypertensive heart disease with or without renal disease (402, 404)	254	8.2	44	8.7	11	8.5	17	13.7
Ischemic heart disease (410-414)	4,861	157.7	726	142.8	145	112.1	220	177.1
Myocardial infarction (410)	1,845	59.9	240	47.2	64	49.5	103	82.9
Other acute & subacute (411)	3	0.1	2	0.4	-	-	-	-
Chronic ischemic heart disease (412-414)	3,013	97.8	484	95.2	81	62.6	117	94.2
All other forms (415-429)	2,316	75.1	376	73.9	76	58.8	121	97.4
Hypertension (401, 403)	229	7.4	53	10.4	8	6.2	11	8.9
Cerebrovascular disease (430-438)	2,582	83.8	408	80.2	91	70.4	194	156.2
Subarachnoid hemorrhage (430)	99	3.2	17	3.3	6	4.6	4	3.2
Intracerebral & intracranial hemorrhages (431-432)	304	9.9	46	9.0	10	7.7	20	16.1
Cerebral thrombosis & embolism (434)	279	9.1	31	6.1	9	7.0	75	60.4
Acute but ill-defined cerebrovascular disease (436)	1,504	48.8	245	48.2	55	42.5	77	62.0
Generalized ischemic cerebrovascular disease (437)	189	6.1	33	6.5	7	5.4	8	6.4
Arteriosclerosis (440)	237	7.7	53	10.4	12	9.3	7	5.6
Other diseases of arteries, arterioles and capillaries (441-448)	365	11.8	64	12.6	17	13.1	8	6.4
Venous thrombosis & embolism (451-453)	20	0.6	1	0.2	-	-	1	0.8
Pneumonia (480-486)	889	28.8	144	28.3	39	30.2	36	29
Influenza (487)	20	0.6	3	0.6	1	0.8	1	0.8
Bronchitis, emphysema, asthma and COPD (490-496)	1,648	53.5	275	54.1	64	49.5	73	58.8
Gastric, duodenal, and peptic ulcer (531-533)	79	2.6	12	2.4	4	3.1	7	5.6
Hernia & intestinal obstruction (550-553, 560)	66	2.1	10	2.0	2	1.5	4	3.2
Cirrhosis of the liver (571)	302	9.8	66	13.0	12	9.3	14	11.3
Alcoholic cirrhosis (571.0-571.3)	237	7.7	57	11.2	9	7.0	11	8.9
Diseases of the gallbladder (574-576)	60	1.9	12	2.4	6	4.6	2	1.6
Nephritis & nephrosis (580-589)	166	5.4	24	4.7	4	3.1	3	2.4
Infections of the kidney (590)	11	0.4	2	0.4	-	-	-	-
Diseases of male genital organs (600-608)	12	0.4	4	0.8	1	0.8	-	-
Diseases of the uterus and other female genital organs (614-629)	7	0.2	1	0.2	-	-	-	-
Complications of pregnancy, childbirth and the puerperium (630-676)	5	0.2	-	-	-	-	-	-
Congenital anomalies (740-759)	174	5.6	26	5.1	5	3.9	8	6.4
Certain causes in early infancy (760-779)	102	3.3	17	3.3	6	4.6	8	6.4
Sudden infant death syndrome (798.0)	36	1.2	3	0.6	1	0.8	2	1.6
Unintentional injuries (800-949)	1,281	41.6	223	43.9	58	44.9	52	41.9
Motor vehicle-related (810-825)	543	17.6	51	10.0	16	12.4	21	16.9
Suicides (950-959)	538	17.5	95	18.7	23	17.8	22	17.7
Homicides (960-978)	131	4.3	46	9.0	2	1.5	4	3.2
Injuries undetermined whether accidentally or purposely inflicted (980-989)	50	1.6	12	2.4	3	2.3	1	0.8

- Quantity is zero.

Rate per 100,000 population.

TABLE 6-33. Deaths by Selected Causes by County, Oregon Residents, 1997

Selected Causes of Death	County of Residence							
	Baker		Benton		Clackamas		Clatsop	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	225	1363.6	437	569.8	2,525	794.8	366	1060.9
Tuberculosis (010-018, 137)	-	-	-	-	-	-	-	-
Septicemia (038)	1	6.1	1	1.3	13	4.1	-	-
AIDS (042-044)	-	-	1	1.3	7	2.2	1	2.9
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	-	-	-	-	3	0.9	3	8.7
Other infective & parasitic diseases (Residual 001-139)	2	12.1	1	1.3	17	5.4	1	2.9
Malignant neoplasms (140-208)	63	381.8	94	122.6	599	188.5	90	260.9
Buccal cavity & pharynx (140-149)	-	-	1	1.3	16	5.0	2	5.8
Digestive organs & peritoneum (150-159)	12	72.7	23	30.0	131	41.2	25	72.5
Large intestine (153)	6	36.4	8	10.4	53	16.7	10	29.0
Pancreas (157)	2	12.1	5	6.5	35	11.0	3	8.7
Respiratory/intrathoracic organs (160-165)	19	115.2	33	43.0	168	52.9	27	78.3
Bronchus and lung (162.2-162.9)	19	115.2	32	41.7	164	51.6	26	75.4
Malignant melanoma (172)	-	-	-	-	7	2.2	2	5.8
Other skin (173)	2	12.1	-	-	-	-	1	2.9
Breast (174-175)	4	24.2	8	10.4	43	13.5	4	11.6
Genital organs (179-187)	9	54.5	11	14.3	65	20.5	9	26.1
Cervix & uterus (179-182)	2	12.1	2	2.6	13	4.1	2	5.8
Ovary (183.0)	1	6.1	1	1.3	7	2.2	4	11.6
Prostate (185)	6	36.4	6	7.8	41	12.9	3	8.7
Urinary organs (188-189)	7	42.4	3	3.9	32	10.1	3	8.7
Leukemia (204-208)	1	6.1	6	7.8	22	6.9	4	11.6
Benign neoplasms (210-229)	-	-	-	-	1	0.3	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	-	-	2	2.6	4	1.3	1	2.9
Diabetes mellitus (250)	2	12.1	5	6.5	67	21.1	15	43.5
Nutritional deficiencies (260-269)	-	-	1	1.3	2	0.6	-	-
Anemias (280-285)	-	-	-	-	7	2.2	-	-
Alzheimer's dementia (290.1)	2	12.1	12	15.6	25	7.9	6	17.4
Alcoholic psychoses & alcoholism (291, 303)	-	-	-	-	7	2.2	2	5.8
Drug dependence (304)	-	-	-	-	1	0.3	-	-
Meningitis (320-322)	-	-	-	-	1	0.3	-	-
Alzheimer's disease (331.0)	2	12.1	7	9.1	41	12.9	5	14.5
Parkinson's disease (332)	1	6.1	5	6.5	15	4.7	1	2.9
Epilepsy (345)	1	6.1	-	-	1	0.3	1	2.9
Major cardiovascular diseases (390-448)	78	472.7	173	225.6	993	312.6	143	414.5
Diseases of the heart (390-398, 402, 404-429)	55	333.3	106	138.2	695	218.8	111	321.7
Rheumatic fever & chronic rheumatic heart disease (390-398)	-	-	1	1.3	8	2.5	1	2.9
Hypertensive heart disease with or without renal disease (402, 404)	1	6.1	3	3.9	22	6.9	4	11.6
Ischemic heart disease (410-414)	36	218.2	68	88.7	453	142.6	88	255.1
Myocardial infarction (410)	13	78.8	22	28.7	174	54.8	22	63.8
Other acute & subacute (411)	-	-	-	-	-	-	-	-
Chronic ischemic heart disease (412-414)	23	139.4	46	60.0	279	87.8	66	191.3
All other forms (415-429)	18	109.1	34	44.3	212	66.7	18	52.2
Hypertension (401, 403)	1	6.1	4	5.2	17	5.4	2	5.8
Cerebrovascular disease (430-438)	16	97.0	57	74.3	234	73.7	23	66.7
Subarachnoid hemorrhage (430)	-	-	2	2.6	6	1.9	3	8.7
Intracerebral & intracranial hemorrhages (431-432)	-	-	7	9.1	25	7.9	4	11.6
Cerebral thrombosis & embolism (434)	2	12.1	2	2.6	13	4.1	1	2.9
Acute but ill-defined cerebrovascular disease (436)	8	48.5	27	35.2	160	50.4	14	40.6
Generalized ischemic cerebrovascular disease (437)	6	36.4	17	22.2	11	3.5	1	2.9
Arteriosclerosis (440)	3	18.2	4	5.2	20	6.3	1	2.9
Other diseases of arteries, arterioles and capillaries (441-448)	3	18.2	2	2.6	27	8.5	6	17.4
Venous thrombosis & embolism (451-453)	-	-	-	-	2	0.6	-	-
Pneumonia (480-486)	7	42.4	20	26.1	84	26.4	13	37.7
Influenza (487)	-	-	-	-	2	0.6	-	-
Bronchitis, emphysema, asthma and COPD (490-496)	19	115.2	23	30.0	122	38.4	15	43.5
Gastric, duodenal, and peptic ulcer (531-533)	-	-	-	-	5	1.6	1	2.9
Hernia & intestinal obstruction (550-553, 560)	-	-	1	1.3	6	1.9	1	2.9
Cirrhosis of the liver (571)	1	6.1	4	5.2	26	8.2	3	8.7
Alcoholic cirrhosis (571.0-571.3)	1	6.1	2	2.6	21	6.6	3	8.7
Diseases of the gallbladder (574-576)	-	-	4	5.2	6	1.9	-	-
Nephritis & nephrosis (580-589)	-	-	4	5.2	9	2.8	3	8.7
Infections of the kidney (590)	-	-	-	-	1	0.3	-	-
Diseases of male genital organs (600-608)	-	-	-	-	2	0.6	-	-
Diseases of the uterus and other female genital organs (614-629)	-	-	-	-	-	-	-	-
Complications of pregnancy, childbirth and the puerperium (630-676)	-	-	-	-	2	0.6	-	-
Congenital anomalies (740-759)	1	6.1	4	5.2	25	7.9	1	2.9
Certain causes in early infancy (760-779)	-	-	1	1.3	9	2.8	-	-
Sudden infant death syndrome (798.0)	-	-	-	-	5	1.6	1	2.9
Unintentional injuries (800-949)	15	90.9	22	28.7	109	34.3	25	72.5
Motor vehicle-related (810-825)	7	42.4	14	18.3	52	16.4	11	31.9
Suicides (950-959)	7	42.4	11	14.3	50	15.7	6	17.4
Homicides (960-978)	1	6.1	-	-	13	4.1	2	5.8
Injuries undetermined whether accidentally or purposely inflicted (980-989)	-	-	1	1.3	5	1.6	1	2.9

- Quantity is zero.

Rates per 100,000 population.

TABLE 6-33. Deaths by Selected Causes by County, Oregon Residents, 1997 (Continued)

Selected Causes of Death	County of Residence							
	Columbia		Coos		Crook		Curry	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	354	853.0	815	1327.4	172	1058.5	280	1261.3
Tuberculosis (010-018, 137)	-	-	-	-	-	-	1	4.5
Septicemia (038)	3	7.2	2	3.3	1	6.2	-	-
AIDS (042-044)	1	2.4	-	-	-	-	-	-
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	1	2.4	-	-	-	-	-	-
Other infective & parasitic diseases (Residual 001-139)	2	4.8	2	3.3	1	6.2	-	-
Malignant neoplasms (140-208)	80	192.8	207	337.1	34	209.2	77	346.8
Buccal cavity & pharynx (140-149)	-	-	3	4.9	-	-	1	4.5
Digestive organs & peritoneum (150-159)	15	36.1	38	61.9	6	36.9	22	99.1
Large intestine (153)	8	19.3	14	22.8	1	6.2	7	31.5
Pancreas (157)	2	4.8	9	14.7	1	6.2	7	31.5
Respiratory/intrathoracic organs (160-165)	33	79.5	80	130.3	11	67.7	31	139.6
Bronchus and lung (162.2-162.9)	31	74.7	79	128.7	11	67.7	30	135.1
Malignant melanoma (172)	2	4.8	3	4.9	1	6.2	-	-
Other skin (173)	-	-	3	4.9	1	6.2	-	-
Breast (174-175)	4	9.6	14	22.8	2	12.3	6	27.0
Genital organs (179-187)	9	21.7	21	34.2	3	18.5	7	31.5
Cervix & uterus (179-182)	2	4.8	2	3.3	-	-	1	4.5
Ovary (183.0)	-	-	3	4.9	-	-	1	4.5
Prostate (185)	7	16.9	16	26.1	3	18.5	4	18.0
Urinary organs (188-189)	4	9.6	10	16.3	2	12.3	2	9.0
Leukemia (204-208)	2	4.8	6	9.8	1	6.2	4	18.0
Benign neoplasms (210-229)	-	-	2	3.3	-	-	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	-	-	2	3.3	1	6.2	3	13.5
Diabetes mellitus (250)	9	21.7	25	40.7	2	12.3	10	45.0
Nutritional deficiencies (260-269)	-	-	3	4.9	1	6.2	-	-
Anemias (280-285)	-	-	-	-	-	-	-	-
Alzheimer's dementia (290.1)	3	7.2	9	14.7	-	-	-	-
Alcoholic psychoses & alcoholism (291, 303)	6	14.5	3	4.9	1	6.2	-	-
Drug dependence (304)	1	2.4	-	-	-	-	-	-
Meningitis (320-322)	-	-	-	-	-	-	-	-
Alzheimer's disease (331.0)	4	9.6	18	29.3	-	-	1	4.5
Parkinson's disease (332)	2	4.8	6	9.8	-	-	1	4.5
Epilepsy (345)	-	-	-	-	1	6.2	-	-
Major cardiovascular diseases (390-448)	141	339.8	302	491.9	84	516.9	124	558.6
Diseases of the heart (390-398, 402, 404-429)	105	253.0	207	337.1	62	381.5	95	427.9
Rheumatic fever & chronic rheumatic heart disease (390-398)	-	-	3	4.9	-	-	1	4.5
Hypertensive heart disease with or without renal disease (402, 404)	3	7.2	3	4.9	2	12.3	-	-
Ischemic heart disease (410-414)	60	144.6	158	257.3	34	209.2	54	243.2
Myocardial infarction (410)	25	60.2	66	107.5	14	86.2	32	144.1
Other acute & subacute (411)	-	-	-	-	-	-	-	-
Chronic ischemic heart disease (412-414)	35	84.3	92	149.8	20	123.1	22	99.1
All other forms (415-429)	42	101.2	43	70.0	26	160.0	40	180.2
Hypertension (401, 403)	2	4.8	5	8.1	1	6.2	2	9.0
Cerebrovascular disease (430-438)	29	69.9	62	101.0	10	61.5	21	94.6
Subarachnoid hemorrhage (430)	3	7.2	3	4.9	-	-	1	4.5
Intracerebral & intracranial hemorrhages (431-432)	4	9.6	8	13.0	2	12.3	4	18.0
Cerebral thrombosis & embolism (434)	2	4.8	5	8.1	1	6.2	1	4.5
Acute but ill-defined cerebrovascular disease (436)	14	33.7	39	63.5	6	36.9	12	54.1
Generalized ischemic cerebrovascular disease (437)	2	4.8	3	4.9	-	-	-	-
Arteriosclerosis (440)	1	2.4	15	24.4	9	55.4	1	4.5
Other diseases of arteries, arterioles and capillaries (441-448)	4	9.6	13	21.2	2	12.3	5	22.5
Venous thrombosis & embolism (451-453)	-	-	1	1.6	1	6.2	-	-
Pneumonia (480-486)	7	16.9	23	37.5	3	18.5	8	36.0
Influenza (487)	-	-	2	3.3	1	6.2	-	-
Bronchitis, emphysema, asthma and COPD (490-496)	30	72.3	46	74.9	16	98.5	11	49.5
Gastric, duodenal, and peptic ulcer (531-533)	-	-	1	1.6	-	-	1	4.5
Hernia & intestinal obstruction (550-553, 560)	-	-	2	3.3	-	-	1	4.5
Cirrhosis of the liver (571)	5	12.0	16	26.1	-	-	3	13.5
Alcoholic cirrhosis (571.0-571.3)	5	12.0	13	21.2	-	-	2	9.0
Diseases of the gallbladder (574-576)	1	2.4	1	1.6	-	-	-	-
Nephritis & nephrosis (580-589)	2	4.8	5	8.1	1	6.2	-	-
Infections of the kidney (590)	-	-	-	-	-	-	1	4.5
Diseases of male genital organs (600-608)	-	-	-	-	-	-	-	-
Diseases of the uterus and other female genital organs (614-629)	-	-	-	-	-	-	-	-
Complications of pregnancy, childbirth and the puerperium (630-676)	-	-	-	-	-	-	-	-
Congenital anomalies (740-759)	2	4.8	4	6.5	-	-	-	-
Certain causes in early infancy (760-779)	-	-	1	1.6	1	6.2	-	-
Sudden infant death syndrome (798.0)	-	-	-	-	-	-	-	-
Unintentional injuries (800-949)	14	33.7	39	63.5	8	49.2	7	31.5
Motor vehicle-related (810-825)	8	19.3	13	21.2	3	18.5	5	22.5
Suicides (950-959)	6	14.5	20	32.6	3	18.5	8	36.0
Homicides (960-978)	1	2.4	5	8.1	2	12.3	-	-
Injuries undetermined whether accidentally or purposely inflicted (980-989)	1	2.4	-	-	-	-	-	-

- Quantity is zero.

Rates per 100,000 population.

TABLE 6-33. Deaths by Selected Causes by County, Oregon Residents, 1997 (Continued)

Selected Causes of Death	County of Residence							
	Deschutes		Douglas		Gilliam		Grant	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	762	753.0	1,175	1,185.7	16	820.5	88	1,106.9
Tuberculosis (010-018, 137)	-	-	-	-	-	-	-	-
Septicemia (038)	3	3.0	2	2.0	-	-	-	-
AIDS (042-044)	1	1.0	4	4.0	-	-	-	-
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	1	1.0	2	2.0	-	-	-	-
Other infective & parasitic diseases (Residual 001-139)	4	4.0	7	7.1	-	-	1	12.6
Malignant neoplasms (140-208)	184	181.8	278	280.5	5	256.4	27	339.6
Buccal cavity & pharynx (140-149)	2	2.0	7	7.1	-	-	-	-
Digestive organs & peritoneum (150-159)	34	33.6	52	52.5	2	102.6	9	113.2
Large intestine (153)	12	11.9	20	20.2	-	-	3	37.7
Pancreas (157)	8	7.9	11	11.1	-	-	3	37.7
Respiratory/intrathoracic organs (160-165)	47	46.4	103	103.9	1	51.3	6	75.5
Bronchus and lung (162.2-162.9)	43	42.5	100	100.9	1	51.3	5	62.9
Malignant melanoma (172)	3	3.0	5	5.0	-	-	-	-
Other skin (173)	3	3.0	1	1.0	-	-	-	-
Breast (174-175)	17	16.8	11	11.1	-	-	-	-
Genital organs (179-187)	22	21.7	29	29.3	-	-	6	75.5
Cervix & uterus (179-182)	3	3.0	4	4.0	-	-	-	-
Ovary (183.0)	6	5.9	9	9.1	-	-	1	12.6
Prostate (185)	13	12.8	15	15.1	-	-	5	62.9
Urinary organs (188-189)	12	11.9	13	13.1	-	-	-	-
Leukemia (204-208)	8	7.9	5	5.0	-	-	1	12.6
Benign neoplasms (210-229)	-	-	1	1.0	-	-	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	1	1.0	4	4.0	-	-	1	12.6
Diabetes mellitus (250)	12	11.9	35	35.3	-	-	1	12.6
Nutritional deficiencies (260-269)	1	1.0	2	2.0	-	-	-	-
Anemias (280-285)	-	-	-	-	-	-	-	-
Alzheimer's dementia (290.1)	5	4.9	14	14.1	1	51.3	2	25.2
Alcoholic psychoses & alcoholism (291, 303)	3	3.0	5	5.0	-	-	-	-
Drug dependence (304)	-	-	-	-	-	-	-	-
Meningitis (320-322)	-	-	1	1.0	-	-	-	-
Alzheimer's disease (331.0)	9	8.9	24	24.2	1	51.3	-	-
Parkinson's disease (332)	7	6.9	6	6.1	1	51.3	-	-
Epilepsy (345)	-	-	-	-	-	-	-	-
Major cardiovascular diseases (390-448)	308	304.3	455	459.1	4	205.1	25	314.5
Diseases of the heart (390-398, 402, 404-429)	212	209.5	346	349.1	3	153.8	17	213.8
Rheumatic fever & chronic rheumatic heart disease (390-398)	2	2.0	3	3.0	-	-	-	-
Hypertensive heart disease with or without renal disease (402, 404)	5	4.9	7	7.1	-	-	-	-
Ischemic heart disease (410-414)	152	150.2	233	235.1	2	102.6	13	163.5
Myocardial infarction (410)	50	49.4	81	81.7	-	-	12	150.9
Other acute & subacute (411)	-	-	-	-	-	-	-	-
Chronic ischemic heart disease (412-414)	102	100.8	152	153.4	2	102.6	1	12.6
All other forms (415-429)	53	52.4	103	103.9	1	51.3	4	50.3
Hypertension (401, 403)	2	2.0	8	8.1	-	-	-	-
Cerebrovascular disease (430-438)	72	71.1	78	78.7	-	-	5	62.9
Subarachnoid hemorrhage (430)	2	2.0	6	6.1	-	-	-	-
Intracerebral & intracranial hemorrhages (431-432)	8	7.9	8	8.1	-	-	-	-
Cerebral thrombosis & embolism (434)	1	1.0	6	6.1	-	-	-	-
Acute but ill-defined cerebrovascular disease (436)	45	44.5	49	49.4	-	-	4	50.3
Generalized ischemic cerebrovascular disease (437)	8	7.9	4	4.0	-	-	-	-
Arteriosclerosis (440)	10	9.9	12	12.1	-	-	-	-
Other diseases of arteries, arterioles and capillaries (441-448)	12	11.9	11	11.1	1	51.3	3	37.7
Venous thrombosis & embolism (451-453)	2	2.0	2	2.0	-	-	-	-
Pneumonia (480-486)	23	22.7	35	35.3	1	51.3	10	125.8
Influenza (487)	-	-	-	-	-	-	-	-
Bronchitis, emphysema, asthma and COPD (490-496)	33	32.6	76	76.7	1	51.3	5	62.9
Gastric, duodenal, and peptic ulcer (531-533)	3	3.0	1	1.0	-	-	2	25.2
Hernia & intestinal obstruction (550-553, 560)	1	1.0	3	3.0	-	-	2	25.2
Cirrhosis of the liver (571)	13	12.8	16	16.1	-	-	1	12.6
Alcoholic cirrhosis (571.0-571.3)	11	10.9	12	12.1	-	-	1	12.6
Diseases of the gallbladder (574-576)	1	1.0	2	2.0	-	-	-	-
Nephritis & nephrosis (580-589)	6	5.9	8	8.1	-	-	1	12.6
Infections of the kidney (590)	-	-	1	1.0	-	-	-	-
Diseases of male genital organs (600-608)	1	1.0	-	-	-	-	-	-
Diseases of the uterus and other female genital organs (614-629)	-	-	-	-	-	-	-	-
Complications of pregnancy, childbirth and the puerperium (630-676)	-	-	1	1.0	-	-	-	-
Congenital anomalies (740-759)	1	1.0	1	1.0	1	-	-	-
Certain causes in early infancy (760-779)	1	1.0	5	5.0	-	-	1	12.6
Sudden infant death syndrome (798.0)	1	1.0	1	1.0	-	-	-	-
Unintentional injuries (800-949)	32	31.6	46	46.4	1	51.3	3	37.7
Motor vehicle-related (810-825)	21	20.8	33	33.3	-	-	2	25.2
Suicides (950-959)	14	13.8	21	21.2	-	-	2	25.2
Homicides (960-978)	3	3.0	3	3.0	-	-	2	25.2
Injuries undetermined whether accidentally or purposely inflicted (980-989)	3	3.0	1	1.0	-	-	-	-

- Quantity is zero.

Rates per 100,000 population.

TABLE 6-33. Deaths by Selected Causes by County, Oregon Residents, 1997 (Continued)

Selected Causes of Death	County of Residence							
	Harney		Hood River		Jackson		Jefferson	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	78	1,040.0	165	859.4	1,703	1,005.9	143	836.3
Tuberculosis (010-018, 137)	-	-	-	-	2	1.2	-	-
Septicemia (038)	-	-	2	10.4	4	2.4	2	11.7
AIDS (042-044)	-	-	1	5.2	4	2.4	-	-
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	-	-	-	-	1	0.6	1	5.8
Other infective & parasitic diseases (Residual 001-139)	-	-	-	-	-	-	-	-
Malignant neoplasms (140-208)	21	280.0	39	203.1	421	248.7	26	152.0
Buccal cavity & pharynx (140-149)	-	-	-	-	4	2.4	-	-
Digestive organs & peritoneum (150-159)	4	53.3	6	31.3	84	49.6	5	29.2
Large intestine (153)	2	26.7	1	5.2	27	15.9	-	-
Pancreas (157)	-	-	-	-	21	12.4	2	11.7
Respiratory/intrathoracic organs (160-165)	3	40.0	13	67.7	126	74.4	12	70.2
Bronchus and lung (162.2-162.9)	3	40.0	12	62.5	123	72.7	11	64.3
Malignant melanoma (172)	-	-	2	10.4	6	3.5	-	-
Other skin (173)	-	-	-	-	1	0.6	-	-
Breast (174-175)	1	13.3	1	5.2	46	27.2	2	11.7
Genital organs (179-187)	6	80.0	8	41.7	58	34.3	2	11.7
Cervix & uterus (179-182)	-	-	1	5.2	10	5.9	1	5.8
Ovary (183.0)	1	13.3	1	5.2	12	7.1	-	-
Prostate (185)	3	40.0	5	26.0	35	20.7	1	5.8
Urinary organs (188-189)	1	13.3	2	10.4	21	12.4	-	-
Leukemia (204-208)	2	26.7	-	-	18	10.6	1	5.8
Benign neoplasms (210-229)	-	-	-	-	-	-	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	-	-	-	-	4	2.4	-	-
Diabetes mellitus (250)	1	13.3	6	31.3	45	26.6	3	17.5
Nutritional deficiencies (260-269)	-	-	-	-	1	0.6	-	-
Anemias (280-285)	1	13.3	-	-	2	1.2	1	5.8
Alzheimer's dementia (290.1)	1	13.3	2	10.4	16	9.5	1	5.8
Alcoholic psychoses & alcoholism (291, 303)	2	26.7	-	-	8	4.7	-	-
Drug dependence (304)	-	-	-	-	2	1.2	-	-
Meningitis (320-322)	-	-	-	-	1	0.6	-	-
Alzheimer's disease (331.0)	-	-	1	5.2	26	15.4	-	-
Parkinson's disease (332)	-	-	1	5.2	10	5.9	-	-
Epilepsy (345)	-	-	-	-	-	-	-	-
Major cardiovascular diseases (390-448)	33	440.0	63	328.1	668	394.6	54	315.8
Diseases of the heart (390-398, 402, 404-429)	24	320.0	45	234.4	473	279.4	38	222.2
Rheumatic fever & chronic rheumatic heart disease (390-398)	-	-	-	-	5	3.0	1	5.8
Hypertensive heart disease with or without renal disease (402, 404)	-	-	2	10.4	13	7.7	-	-
Ischemic heart disease (410-414)	16	213.3	22	114.6	337	199.1	30	175.4
Myocardial infarction (410)	10	133.3	11	57.3	110	65.0	10	58.5
Other acute & subacute (411)	-	-	-	-	-	-	-	-
Chronic ischemic heart disease (412-414)	6	80.0	11	57.3	227	134.1	20	117.0
All other forms (415-429)	8	106.7	21	109.4	118	69.7	7	40.9
Hypertension (401, 403)	-	-	1	5.2	14	8.3	-	-
Cerebrovascular disease (430-438)	8	106.7	13	67.7	154	91.0	14	81.9
Subarachnoid hemorrhage (430)	-	-	-	-	4	2.4	1	5.8
Intracerebral & intracranial hemorrhages (431-432)	1	13.3	1	5.2	25	14.8	1	5.8
Cerebral thrombosis & embolism (434)	-	-	1	5.2	2	1.2	-	-
Acute but ill-defined cerebrovascular disease (436)	7	93.3	9	46.9	94	55.5	10	58.5
Generalized ischemic cerebrovascular disease (437)	-	-	-	-	15	8.9	-	-
Arteriosclerosis (440)	-	-	2	10.4	4	2.4	-	-
Other diseases of arteries, arterioles and capillaries (441-448)	1	13.3	2	10.4	23	13.6	2	11.7
Venous thrombosis & embolism (451-453)	-	-	-	-	4	2.4	-	-
Pneumonia (480-486)	1	13.3	5	26.0	51	30.1	5	29.2
Influenza (487)	-	-	1	5.2	2	1.2	-	-
Bronchitis, emphysema, asthma and COPD (490-496)	9	120.0	7	36.5	118	69.7	6	35.1
Gastric, duodenal, and peptic ulcer (531-533)	-	-	-	-	5	3.0	-	-
Hernia & intestinal obstruction (550-553, 560)	-	-	-	-	4	2.4	-	-
Cirrhosis of the liver (571)	-	-	2	10.4	18	10.6	4	23.4
Alcoholic cirrhosis (571.0-571.3)	-	-	1	5.2	14	8.3	4	23.4
Diseases of the gallbladder (574-576)	-	-	-	-	2	1.2	-	-
Nephritis & nephrosis (580-589)	-	-	-	-	6	3.5	1	5.8
Infections of the kidney (590)	-	-	-	-	1	0.6	-	-
Diseases of male genital organs (600-608)	-	-	-	-	-	-	-	-
Diseases of the uterus and other female genital organs (614-629)	-	-	-	-	-	-	-	-
Complications of pregnancy, childbirth and the puerperium (630-676)	-	-	-	-	-	-	1	5.8
Congenital anomalies (740-759)	-	-	-	-	8	4.7	1	5.8
Certain causes in early infancy (760-779)	-	-	-	-	4	2.4	-	-
Sudden infant death syndrome (798.0)	-	-	1	5.2	1	0.6	1	5.8
Unintentional injuries (800-949)	4	53.3	12	62.5	41	24.2	17	99.4
Motor vehicle-related (810-825)	3	40.0	7	36.5	16	9.5	8	46.8
Suicides (950-959)	-	-	1	5.2	31	18.3	10	58.5
Homicides (960-978)	-	-	-	-	6	3.5	1	5.8
Injuries undetermined whether accidentally or purposely inflicted (980-989)	1	13.3	-	-	1	0.6	-	-

- Quantity is zero.

Rates per 100,000 population.

TABLE 6-33. Deaths by Selected Causes by County, Oregon Residents, 1997 (Continued)

Selected Causes of Death	County of Residence							
	Josephine		Klamath		Lake		Lane	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	917	1256.2	665	1079.5	71	959.5	2,690	872.0
Tuberculosis (010-018, 137)	-	-	-	-	-	-	2	0.6
Septicemia (038)	1	1.4	2	3.2	-	-	6	1.9
AIDS (042-044)	1	1.4	-	-	-	-	5	1.6
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	2	2.7	-	-	-	-	3	1.0
Other infective & parasitic diseases (Residual 001-139)	3	4.1	5	8.1	1	13.5	10	3.2
Malignant neoplasms (140-208)	220	301.4	134	217.5	22	297.3	668	216.5
Buccal cavity & pharynx (140-149)	6	8.2	3	4.9	-	-	7	2.3
Digestive organs & peritoneum (150-159)	42	57.5	24	39.0	5	67.6	141	45.7
Large intestine (153)	20	27.4	10	16.2	2	27.0	49	15.9
Pancreas (157)	4	5.5	6	9.7	1	13.5	35	11.3
Respiratory/intrathoracic organs (160-165)	71	97.3	43	69.8	10	135.1	215	69.7
Bronchus and lung (162.2-162.9)	69	94.5	41	66.6	8	108.1	213	69.0
Malignant melanoma (172)	3	4.1	3	4.9	-	-	8	2.6
Other skin (173)	2	2.7	2	3.2	-	-	1	0.3
Breast (174-175)	11	15.1	4	6.5	-	-	41	13.3
Genital organs (179-187)	26	35.6	21	34.1	2	27.0	80	25.9
Cervix & uterus (179-182)	3	4.1	3	4.9	1	13.5	11	3.6
Ovary (183.0)	4	5.5	4	6.5	1	13.5	23	7.5
Prostate (185)	18	24.7	13	21.1	-	-	46	14.9
Urinary organs (188-189)	10	13.7	10	16.2	-	-	28	9.1
Leukemia (204-208)	8	11.0	6	9.7	2	27.0	39	12.6
Benign neoplasms (210-229)	-	-	1	1.6	-	-	1	0.3
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	5	6.8	2	3.2	-	-	6	1.9
Diabetes mellitus (250)	17	23.3	19	30.8	3	40.5	80	25.9
Nutritional deficiencies (260-269)	-	-	1	1.6	-	-	3	1.0
Anemias (280-285)	1	1.4	1	1.6	-	-	4	1.3
Alzheimer's dementia (290.1)	12	16.4	11	17.9	-	-	26	8.4
Alcoholic psychoses & alcoholism (291, 303)	6	8.2	3	4.9	1	13.5	13	4.2
Drug dependence (304)	2	2.7	-	-	-	-	1	0.3
Meningitis (320-322)	-	-	-	-	-	-	2	0.6
Alzheimer's disease (331.0)	11	15.1	15	24.4	-	-	32	10.4
Parkinson's disease (332)	8	11.0	2	3.2	-	-	26	8.4
Epilepsy (345)	-	-	1	1.6	-	-	3	1.0
Major cardiovascular diseases (390-448)	394	539.7	219	355.5	24	324.3	925	299.8
Diseases of the heart (390-398, 402, 404-429)	242	331.5	165	267.9	17	229.7	613	198.7
Rheumatic fever & chronic rheumatic heart disease (390-398)	2	2.7	-	-	-	-	3	1.0
Hypertensive heart disease with or without renal disease (402, 404)	7	9.6	2	3.2	-	-	25	8.1
Ischemic heart disease (410-414)	153	209.6	108	175.3	12	162.2	367	119.0
Myocardial infarction (410)	49	67.1	64	103.9	5	67.6	148	48.0
Other acute & subacute (411)	-	-	-	-	-	-	-	-
Chronic ischemic heart disease (412-414)	104	142.5	44	71.4	7	94.6	219	71.0
All other forms (415-429)	80	109.6	55	89.3	5	67.6	218	70.7
Hypertension (401, 403)	8	11.0	6	9.7	-	-	24	7.8
Cerebrovascular disease (430-438)	126	172.6	34	55.2	5	67.6	217	70.3
Subarachnoid hemorrhage (430)	7	9.6	1	1.6	-	-	8	2.6
Intracerebral & intracranial hemorrhages (431-432)	12	16.4	5	8.1	1	13.5	33	10.7
Cerebral thrombosis & embolism (434)	1	1.4	-	-	-	-	16	5.2
Acute but ill-defined cerebrovascular disease (436)	75	102.7	23	37.3	4	54.1	126	40.8
Generalized ischemic cerebrovascular disease (437)	15	20.5	1	1.6	-	-	16	5.2
Arteriosclerosis (440)	4	5.5	3	4.9	-	-	25	8.1
Other diseases of arteries, arterioles and capillaries (441-448)	14	19.2	11	17.9	2	27.0	46	14.9
Venous thrombosis & embolism (451-453)	-	-	2	3.2	-	-	2	0.6
Pneumonia (480-486)	23	31.5	16	26.0	-	-	83	26.9
Influenza (487)	1	1.4	1	1.6	-	-	1	0.3
Bronchitis, emphysema, asthma and COPD (490-496)	57	78.1	55	89.3	5	67.6	165	53.5
Gastric, duodenal, and peptic ulcer (531-533)	2	2.7	2	3.2	1	13.5	6	1.9
Hernia & intestinal obstruction (550-553, 560)	6	8.2	3	4.9	-	-	4	1.3
Cirrhosis of the liver (571)	7	9.6	10	16.2	-	-	26	8.4
Alcoholic cirrhosis (571.0-571.3)	5	6.8	6	9.7	-	-	21	6.8
Diseases of the gallbladder (574-576)	2	2.7	1	1.6	-	-	9	2.9
Nephritis & nephrosis (580-589)	3	4.1	5	8.1	-	-	15	4.9
Infections of the kidney (590)	-	-	-	-	-	-	-	-
Diseases of male genital organs (600-608)	1	1.4	-	-	-	-	1	0.3
Diseases of the uterus and other female genital organs (614-629)	1	1.4	-	-	-	-	-	-
Complications of pregnancy, childbirth and the puerperium (630-676)	-	-	-	-	-	-	1	0.3
Congenital anomalies (740-759)	5	6.8	4	6.5	-	-	12	3.9
Certain causes in early infancy (760-779)	1	1.4	3	4.9	-	-	11	3.6
Sudden infant death syndrome (798.0)	-	-	1	1.6	-	-	1	0.3
Unintentional injuries (800-949)	26	35.6	42	68.2	4	54.1	138	44.7
Motor vehicle-related (810-825)	12	16.4	27	43.8	2	27.0	46	14.9
Suicides (950-959)	14	19.2	14	22.7	1	13.5	62	20.1
Homicides (960-978)	2	2.7	4	6.5	-	-	7	2.3
Injuries undetermined whether accidentally or purposely inflicted (980-989)	3	4.1	-	-	-	-	9	2.9

- Quantity is zero.

Rate per 100,000 population.

TABLE 6-33. Deaths by Selected Causes by County, Oregon Residents, 1997 (Continued)

Selected Causes of Death	County of Residence							
	Lincoln		Linn		Malheur		Marion	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	500	1176.5	1,011	1004.0	294	1024.4	2,411	900.6
Tuberculosis (010-018, 137)	-	-	-	-	-	-	2	0.7
Septicemia (038)	2	4.7	6	6.0	1	3.5	11	4.1
AIDS (042-044)	1	2.4	1	1.0	-	-	5	1.9
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	2	4.7	2	2.0	-	-	2	0.7
Other infective & parasitic diseases (Residual 001-139)	3	7.1	5	5.0	-	-	7	2.6
Malignant neoplasms (140-208)	128	301.2	248	246.3	61	212.5	537	200.6
Buccal cavity & pharynx (140-149)	5	11.8	5	5.0	2	7.0	11	4.1
Digestive organs & peritoneum (150-159)	29	68.2	54	53.6	18	62.7	128	47.8
Large intestine (153)	10	23.5	17	16.9	11	38.3	63	23.5
Pancreas (157)	5	11.8	16	15.9	4	13.9	22	8.2
Respiratory/intrathoracic organs (160-165)	39	91.8	70	69.5	17	59.2	163	60.9
Bronchus and lung (162.2-162.9)	38	89.4	67	66.5	16	55.7	159	59.4
Malignant melanoma (172)	3	7.1	4	4.0	1	3.5	4	1.5
Other skin (173)	1	2.4	2	2.0	1	3.5	2	0.7
Breast (174-175)	6	14.1	25	24.8	3	10.5	38	14.2
Genital organs (179-187)	14	32.9	30	29.8	6	20.9	66	24.7
Cervix & uterus (179-182)	3	7.1	4	4.0	-	-	12	4.5
Ovary (183.0)	4	9.4	4	4.0	1	3.5	24	9.0
Prostate (185)	6	14.1	21	20.9	5	17.4	29	10.8
Urinary organs (188-189)	6	14.1	10	9.9	2	7.0	22	8.2
Leukemia (204-208)	2	4.7	8	7.9	-	-	24	9.0
Benign neoplasms (210-229)	1	2.4	-	-	1	3.5	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	2	4.7	5	5.0	1	3.5	4	1.5
Diabetes mellitus (250)	16	37.6	21	20.9	14	48.8	79	29.5
Nutritional deficiencies (260-269)	-	-	-	-	-	-	2	0.7
Anemias (280-285)	2	4.7	1	1.0	-	-	4	1.5
Alzheimer's dementia (290.1)	-	-	14	13.9	3	10.5	20	7.5
Alcoholic psychoses & alcoholism (291, 303)	1	2.4	2	2.0	2	7.0	4	1.5
Drug dependence (304)	-	-	-	-	-	-	7	2.6
Meningitis (320-322)	-	-	1	1.0	-	-	1	0.4
Alzheimer's disease (331.0)	2	4.7	21	20.9	7	24.4	16	6.0
Parkinson's disease (332)	4	9.4	7	7.0	5	17.4	18	6.7
Epilepsy (345)	-	-	-	-	-	-	3	1.1
Major cardiovascular diseases (390-448)	186	437.6	390	387.3	117	407.7	1,028	384.0
Diseases of the heart (390-398, 402, 404-429)	131	308.2	285	283.0	82	285.7	639	238.7
Rheumatic fever & chronic rheumatic heart disease (390-398)	2	4.7	5	5.0	3	10.5	9	3.4
Hypertensive heart disease with or without renal disease (402, 404)	1	2.4	9	8.9	5	17.4	26	9.7
Ischemic heart disease (410-414)	104	244.7	192	190.7	52	181.2	399	149.0
Myocardial infarction (410)	39	91.8	92	91.4	25	87.1	162	60.5
Other acute & subacute (411)	-	-	1	1.0	-	-	-	-
Chronic ischemic heart disease (412-414)	65	152.9	99	98.3	27	94.1	237	88.5
All other forms (415-429)	24	56.5	79	78.5	22	76.7	205	76.6
Hypertension (401, 403)	4	9.4	2	2.0	4	13.9	23	8.6
Cerebrovascular disease (430-438)	43	101.2	87	86.4	27	94.1	331	123.6
Subarachnoid hemorrhage (430)	4	9.4	2	2.0	1	3.5	10	3.7
Intracerebral & intracranial hemorrhages (431-432)	9	21.2	10	9.9	3	10.5	30	11.2
Cerebral thrombosis & embolism (434)	2	4.7	9	8.9	2	7.0	116	43.3
Acute but ill-defined cerebrovascular disease (436)	21	49.4	58	57.6	15	52.3	144	53.8
Generalized ischemic cerebrovascular disease (437)	3	7.1	2	2.0	4	13.9	15	5.6
Arteriosclerosis (440)	2	4.7	4	4.0	1	3.5	15	5.6
Other diseases of arteries, arterioles and capillaries (441-448)	6	14.1	12	11.9	3	10.5	20	7.5
Venous thrombosis & embolism (451-453)	-	-	-	-	1	3.5	2	0.7
Pneumonia (480-486)	19	44.7	35	34.8	9	31.4	74	27.6
Influenza (487)	-	-	-	-	1	3.5	2	0.7
Bronchitis, emphysema, asthma and COPD (490-496)	21	49.4	42	41.7	20	69.7	121	45.2
Gastric, duodenal, and peptic ulcer (531-533)	-	-	4	4.0	2	7.0	8	3.0
Hernia & intestinal obstruction (550-553, 560)	3	7.1	1	1.0	1	3.5	6	2.2
Cirrhosis of the liver (571)	7	16.5	7	7.0	2	7.0	18	6.7
Alcoholic cirrhosis (571.0-571.3)	7	16.5	3	3.0	-	-	14	5.2
Diseases of the gallbladder (574-576)	1	2.4	1	1.0	1	3.5	5	1.9
Nephritis & nephrosis (580-589)	7	16.5	7	7.0	4	13.9	9	3.4
Infections of the kidney (590)	-	-	-	-	-	-	2	0.7
Diseases of male genital organs (600-608)	1	2.4	-	-	-	-	-	-
Diseases of the uterus and other female genital organs (614-629)	1	2.4	1	1.0	-	-	-	-
Complications of pregnancy, childbirth and the puerperium (630-676)	-	-	-	-	-	-	-	-
Congenital anomalies (740-759)	1	2.4	7	7.0	2	7.0	20	7.5
Certain causes in early infancy (760-779)	-	-	3	3.0	3	10.5	13	4.9
Sudden infant death syndrome (798.0)	-	-	2	2.0	-	-	5	1.9
Unintentional injuries (800-949)	14	32.9	47	46.7	11	38.3	96	35.9
Motor vehicle-related (810-825)	9	21.2	23	22.8	5	17.4	49	18.3
Suicides (950-959)	15	35.3	12	11.9	1	3.5	36	13.4
Homicides (960-978)	2	4.7	1	1.0	-	-	7	2.6
Injuries undetermined whether accidentally or purposely inflicted (980-989)	1	2.4	-	-	-	-	3	1.1

- Quantity is zero.

Rates per 100,000 population.

TABLE 6-33. Deaths by Selected Causes by County, Oregon Residents, 1997 (Continued)

Selected Causes of Death	County of Residence							
	Morrow		Multnomah		Polk		Sherman	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	77	850.8	5,693	890.9	482	839.7	18	947.4
Tuberculosis (010-018, 137)	-	-	1	0.2	-	-	-	-
Septicemia (038)	-	-	20	3.1	1	1.7	-	-
AIDS (042-044)	-	-	52	8.1	1	1.7	-	-
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	-	-	23	3.6	3	5.2	-	-
Other infective & parasitic diseases (Residual 001-139)	1	11.0	16	2.5	2	3.5	-	-
Malignant neoplasms (140-208)	22	243.1	1,285	201.1	117	203.8	6	315.8
Buccal cavity & pharynx (140-149)	2	22.1	20	3.1	2	3.5	-	-
Digestive organs & peritoneum (150-159)	2	22.1	273	42.7	20	34.8	2	105.3
Large intestine (153)	1	11.0	94	14.7	4	7.0	1	52.6
Pancreas (157)	-	-	67	10.5	6	10.5	-	-
Respiratory/intrathoracic organs (160-165)	8	88.4	403	63.1	35	61.0	2	105.3
Bronchus and lung (162.2-162.9)	8	88.4	392	61.3	31	54.0	2	105.3
Malignant melanoma (172)	1	11.0	22	3.4	2	3.5	-	-
Other skin (173)	-	-	4	0.6	-	-	-	-
Breast (174-175)	1	11.0	89	13.9	9	15.7	-	-
Genital organs (179-187)	2	22.1	158	24.7	15	26.1	-	-
Cervix & uterus (179-182)	-	-	24	3.8	1	1.7	-	-
Ovary (183.0)	-	-	32	5.0	4	7.0	-	-
Prostate (185)	2	22.1	96	15.0	8	13.9	-	-
Urinary organs (188-189)	2	22.1	53	8.3	5	8.7	1	52.6
Leukemia (204-208)	1	11.0	56	8.8	9	15.7	1	52.6
Benign neoplasms (210-229)	1	11.0	4	0.6	1	1.7	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	-	-	9	1.4	1	1.7	-	-
Diabetes mellitus (250)	1	11.0	189	29.6	9	15.7	2	105.3
Nutritional deficiencies (260-269)	1	11.0	10	1.6	-	-	-	-
Anemias (280-285)	-	-	6	0.9	-	-	-	-
Alzheimer's dementia (290.1)	-	-	67	10.5	2	3.5	-	-
Alcoholic psychoses & alcoholism (291, 303)	-	-	42	6.6	-	-	-	-
Drug dependence (304)	-	-	7	1.1	-	-	-	-
Meningitis (320-322)	-	-	1	0.2	-	-	-	-
Alzheimer's disease (331.0)	-	-	83	13.0	4	7.0	-	-
Parkinson's disease (332)	-	-	49	7.7	3	5.2	-	-
Epilepsy (345)	-	-	5	0.8	-	-	-	-
Major cardiovascular diseases (390-448)	30	331.5	2,036	318.6	209	364.1	4	210.5
Diseases of the heart (390-398, 402, 404-429)	24	265.2	1,367	213.9	129	224.7	4	210.5
Rheumatic fever & chronic rheumatic heart disease (390-398)	-	-	14	2.2	1	1.7	-	-
Hypertensive heart disease with or without renal disease (402, 404)	-	-	51	8.0	6	10.5	-	-
Ischemic heart disease (410-414)	16	176.8	851	133.2	82	142.9	4	210.5
Myocardial infarction (410)	12	132.6	286	44.8	28	48.8	1	52.6
Other acute & subacute (411)	-	-	2	0.3	-	-	-	-
Chronic ischemic heart disease (412-414)	4	44.2	563	88.1	54	94.1	3	157.9
All other forms (415-429)	8	88.4	451	70.6	40	69.7	-	-
Hypertension (401, 403)	-	-	62	9.7	2	3.5	-	-
Cerebrovascular disease (430-438)	6	66.3	478	74.8	70	122.0	-	-
Subarachnoid hemorrhage (430)	-	-	20	3.1	2	3.5	-	-
Intracerebral & intracranial hemorrhages (431-432)	1	11.0	51	8.0	5	8.7	-	-
Cerebral thrombosis & embolism (434)	-	-	35	5.5	33	57.5	-	-
Acute but ill-defined cerebrovascular disease (436)	2	22.1	290	45.4	23	40.1	-	-
Generalized ischemic cerebrovascular disease (437)	3	33.1	40	6.3	5	8.7	-	-
Arteriosclerosis (440)	-	-	57	8.9	2	3.5	-	-
Other diseases of arteries, arterioles and capillaries (441-448)	-	-	72	11.3	6	10.5	-	-
Venous thrombosis & embolism (451-453)	-	-	1	0.2	-	-	-	-
Pneumonia (480-486)	2	22.1	178	27.9	17	29.6	2	105.3
Influenza (487)	-	-	3	0.5	-	-	-	-
Bronchitis, emphysema, asthma and COPD (490-496)	4	44.2	330	51.6	18	31.4	2	105.3
Gastric, duodenal, and peptic ulcer (531-533)	-	-	13	2.0	2	3.5	-	-
Hernia & intestinal obstruction (550-553, 560)	-	-	11	1.7	-	-	-	-
Cirrhosis of the liver (571)	-	-	73	11.4	3	5.2	-	-
Alcoholic cirrhosis (571.0-571.3)	-	-	63	9.9	3	5.2	-	-
Diseases of the gallbladder (574-576)	-	-	13	2.0	1	1.7	-	-
Nephritis & nephrosis (580-589)	1	11.0	30	4.7	6	10.5	-	-
Infections of the kidney (590)	-	-	3	0.5	-	-	-	-
Diseases of male genital organs (600-608)	-	-	4	0.6	1	1.7	-	-
Diseases of the uterus and other female genital organs (614-629)	-	-	2	0.3	-	-	-	-
Complications of pregnancy, childbirth and the puerperium (630-676)	-	-	-	-	-	-	-	-
Congenital anomalies (740-759)	-	-	29	4.5	3	5.2	-	-
Certain causes in early infancy (760-779)	1	11.0	21	3.3	3	5.2	-	-
Sudden infant death syndrome (798.0)	-	-	5	0.8	-	-	-	-
Unintentional injuries (800-949)	3	33.1	274	42.9	27	47.0	1	52.6
Motor vehicle-related (810-825)	1	11.0	68	10.6	10	17.4	-	-
Suicides (950-959)	1	11.0	106	16.6	5	8.7	-	-
Homicides (960-978)	-	-	53	8.3	-	-	-	-
Injuries undetermined whether accidentally or purposely inflicted (980-989)	-	-	14	2.2	-	-	-	-

- Quantity is zero.

Rates per 100,000 population.

TABLE 6-33. Deaths by Selected Causes by County, Oregon Residents, 1997 (Continued)

Selected Causes of Death	County of Residence							
	Tillamook		Umatilla		Union		Wallowa	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	277	1163.9	603	920.6	251	1024.5	90	1232.9
Tuberculosis (010-018, 137)	-	-	-	-	-	-	1	13.7
Septicemia (038)	1	4.2	1	1.5	-	-	-	-
AIDS (042-044)	-	-	-	-	1	4.1	-	-
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	1	4.2	1	1.5	-	-	-	-
Other infective & parasitic diseases (Residual 001-139)	-	-	3	4.6	-	-	-	-
Malignant neoplasms (140-208)	71	298.3	140	213.7	55	224.5	23	315.1
Buccal cavity & pharynx (140-149)	3	12.6	4	6.1	1	4.1	-	-
Digestive organs & peritoneum (150-159)	14	58.8	32	48.9	14	57.1	5	68.5
Large intestine (153)	6	25.2	13	19.8	5	20.4	2	27.4
Pancreas (157)	5	21.0	5	7.6	2	8.2	-	-
Respiratory/intrathoracic organs (160-165)	18	75.6	46	70.2	16	65.3	8	109.6
Bronchus and lung (162.2-162.9)	17	71.4	45	68.7	16	65.3	8	109.6
Malignant melanoma (172)	1	4.2	2	3.1	-	-	1	13.7
Other skin (173)	1	4.2	2	3.1	-	-	-	-
Breast (174-175)	6	25.2	12	18.3	2	8.2	3	41.1
Genital organs (179-187)	9	37.8	15	22.9	6	24.5	2	27.4
Cervix & uterus (179-182)	3	12.6	2	3.1	1	4.1	-	-
Ovary (183.0)	-	-	2	3.1	1	4.1	-	-
Prostate (185)	6	25.2	10	15.3	3	12.2	2	27.4
Urinary organs (188-189)	3	12.6	4	6.1	5	20.4	3	41.1
Leukemia (204-208)	7	29.4	3	4.6	1	4.1	-	-
Benign neoplasms (210-229)	1	4.2	1	1.5	-	-	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	1	4.2	1	1.5	1	4.1	-	-
Diabetes mellitus (250)	3	12.6	16	24.4	12	49.0	-	-
Nutritional deficiencies (260-269)	-	-	-	-	-	-	-	-
Anemias (280-285)	-	-	2	3.1	1	4.1	-	-
Alzheimer's dementia (290.1)	2	8.4	4	6.1	1	4.1	1	13.7
Alcoholic psychoses & alcoholism (291, 303)	1	4.2	2	3.1	-	-	-	-
Drug dependence (304)	-	-	-	-	-	-	-	-
Meningitis (320-322)	-	-	-	-	-	-	-	-
Alzheimer's disease (331.0)	7	29.4	7	10.7	3	12.2	3	41.1
Parkinson's disease (332)	1	4.2	7	10.7	2	8.2	-	-
Epilepsy (345)	-	-	-	-	1	4.1	-	-
Major cardiovascular diseases (390-448)	104	437.0	226	345.0	87	355.1	39	534.2
Diseases of the heart (390-398, 402, 404-429)	75	315.1	161	245.8	60	244.9	30	411.0
Rheumatic fever & chronic rheumatic heart disease (390-398)	2	8.4	1	1.5	-	-	-	-
Hypertensive heart disease with or without renal disease (402, 404)	1	4.2	15	22.9	4	16.3	2	27.4
Ischemic heart disease (410-414)	57	239.5	94	143.5	35	142.9	20	274.0
Myocardial infarction (410)	23	96.6	49	74.8	10	40.8	7	95.9
Other acute & subacute (411)	-	-	-	-	-	-	-	-
Chronic ischemic heart disease (412-414)	34	142.9	45	68.7	25	102.0	13	178.1
All other forms (415-429)	15	63.0	51	77.9	21	85.7	8	109.6
Hypertension (401, 403)	5	21.0	5	7.6	2	8.2	1	13.7
Cerebrovascular disease (430-438)	21	88.2	47	71.8	22	89.8	6	82.2
Subarachnoid hemorrhage (430)	1	4.2	1	1.5	-	-	-	-
Intracerebral & intracranial hemorrhages (431-432)	2	8.4	7	10.7	1	4.1	-	-
Cerebral thrombosis & embolism (434)	-	-	1	1.5	-	-	1	13.7
Acute but ill-defined cerebrovascular disease (436)	13	54.6	34	51.9	20	81.6	2	27.4
Generalized ischemic cerebrovascular disease (437)	-	-	3	4.6	-	-	3	41.1
Arteriosclerosis (440)	-	-	5	7.6	-	-	1	13.7
Other diseases of arteries, arterioles and capillaries (441-448)	3	12.6	8	12.2	3	12.2	1	13.7
Venous thrombosis & embolism (451-453)	-	-	-	-	-	-	-	-
Pneumonia (480-486)	6	25.2	21	32.1	7	28.6	3	41.1
Influenza (487)	-	-	-	-	-	-	-	-
Bronchitis, emphysema, asthma and COPD (490-496)	17	71.4	45	68.7	18	73.5	4	54.8
Gastric, duodenal, and peptic ulcer (531-533)	-	-	3	4.6	3	12.2	1	13.7
Hernia & intestinal obstruction (550-553, 560)	-	-	-	-	-	-	-	-
Cirrhosis of the liver (571)	3	12.6	4	6.1	3	12.2	1	13.7
Alcoholic cirrhosis (571.0-571.3)	2	8.4	1	1.5	3	12.2	1	13.7
Diseases of the gallbladder (574-576)	1	4.2	-	-	-	-	1	13.7
Nephritis & nephrosis (580-589)	-	-	6	9.2	-	-	-	-
Infections of the kidney (590)	-	-	-	-	1	4.1	-	-
Diseases of male genital organs (600-608)	-	-	-	-	1	4.1	-	-
Diseases of the uterus and other female genital organs (614-629)	-	-	-	-	-	-	2	27.4
Complications of pregnancy, childbirth and the puerperium (630-676)	-	-	-	-	-	-	-	-
Congenital anomalies (740-759)	3	12.6	1	1.5	3	12.2	-	-
Certain causes in early infancy (760-779)	-	-	3	4.6	-	-	-	-
Sudden infant death syndrome (798.0)	-	-	2	3.1	1	4.1	-	-
Unintentional injuries (800-949)	21	88.2	34	51.9	10	40.8	3	41.1
Motor vehicle-related (810-825)	9	37.8	14	21.4	4	16.3	1	13.7
Suicides (950-959)	7	29.4	9	13.7	4	16.3	-	-
Homicides (960-978)	-	-	4	6.1	-	-	2	27.4
Injuries undetermined whether accidentally or purposely inflicted (980-989)	-	-	1	1.5	1	4.1	-	-

- Quantity is zero.  
Rates per 100,000 population.

TABLE 6-33. Deaths by Selected Causes by County, Oregon Residents, 1997 (Continued)

Selected Causes of Death	County of Residence							
	Wasco		Washington		Wheeler		Yamhill	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	265	1,172.6	2,435	632.5	21	1,312.5	675	852.3
Tuberculosis (010-018, 137)	-	-	1	0.3	-	-	-	-
Septicemia (038)	2	8.8	10	2.6	-	-	1	1.3
AIDS (042-044)	-	-	5	1.3	-	-	1	1.3
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	-	-	9	2.3	-	-	2	2.5
Other infective & parasitic diseases (Residual 001-139)	-	-	12	3.1	-	-	3	3.8
Malignant neoplasms (140-208)	72	318.6	584	151.7	4	250.0	148	186.9
Buccal cavity & pharynx (140-149)	1	4.4	11	2.9	-	-	4	5.1
Digestive organs & peritoneum (150-159)	21	92.9	124	32.2	-	-	27	34.1
Large intestine (153)	8	35.4	43	11.2	-	-	8	10.1
Pancreas (157)	7	31.0	30	7.8	-	-	4	5.1
Respiratory/intrathoracic organs (160-165)	19	84.1	159	41.3	1	62.5	45	56.8
Bronchus and lung (162.2-162.9)	18	79.6	155	40.3	1	62.5	44	55.6
Malignant melanoma (172)	2	8.8	8	2.1	-	-	5	6.3
Other skin (173)	1	4.4	-	-	-	-	-	-
Breast (174-175)	2	8.8	55	14.3	-	-	17	21.5
Genital organs (179-187)	9	39.8	69	17.9	2	125.0	15	18.9
Cervix & uterus (179-182)	2	8.8	16	4.2	-	-	-	-
Ovary (183.0)	1	4.4	19	4.9	-	-	5	6.3
Prostate (185)	6	26.5	30	7.8	2	125.0	9	11.4
Urinary organs (188-189)	5	22.1	23	6.0	-	-	4	5.1
Leukemia (204-208)	-	-	30	7.8	-	-	4	5.1
Benign neoplasms (210-229)	-	-	3	0.8	-	-	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	-	-	4	1.0	-	-	-	-
Diabetes mellitus (250)	1	4.4	81	21.0	1	62.5	14	17.7
Nutritional deficiencies (260-269)	-	-	5	1.3	-	-	-	-
Anemias (280-285)	-	-	1	0.3	-	-	1	1.3
Alzheimer's dementia (290.1)	-	-	27	7.0	-	-	11	13.9
Alcoholic psychoses & alcoholism (291, 303)	1	4.4	12	3.1	-	-	1	1.3
Drug dependence (304)	-	-	1	0.3	-	-	-	-
Meningitis (320-322)	-	-	-	-	-	-	1	1.3
Alzheimer's disease (331.0)	4	17.7	56	14.5	-	-	8	10.1
Parkinson's disease (332)	2	8.8	19	4.9	-	-	5	6.3
Epilepsy (345)	1	4.4	-	-	-	-	-	-
Major cardiovascular diseases (390-448)	97	429.2	905	235.1	9	562.5	247	311.9
Diseases of the heart (390-398, 402, 404-429)	73	323.0	635	164.9	9	562.5	176	222.2
Rheumatic fever & chronic rheumatic heart disease (390-398)	2	8.8	10	2.6	-	-	1	1.3
Hypertensive heart disease with or without renal disease (402, 404)	1	4.4	26	6.8	-	-	8	10.1
Ischemic heart disease (410-414)	50	221.2	400	103.9	7	437.5	102	128.8
Myocardial infarction (410)	22	97.3	141	36.6	2	125.0	28	35.4
Other acute & subacute (411)	-	-	-	-	-	-	-	-
Chronic ischemic heart disease (412-414)	28	123.9	259	67.3	5	312.5	74	93.4
All other forms (415-429)	20	88.5	199	51.7	2	125.0	65	82.1
Hypertension (401, 403)	4	17.7	13	3.4	-	-	5	6.3
Cerebrovascular disease (430-438)	18	79.6	195	50.6	-	-	53	66.9
Subarachnoid hemorrhage (430)	-	-	8	2.1	-	-	3	3.8
Intracerebral & intracranial hemorrhages (431-432)	3	13.3	21	5.5	-	-	12	15.2
Cerebral thrombosis & embolism (434)	1	4.4	18	4.7	-	-	7	8.8
Acute but ill-defined cerebrovascular disease (436)	13	57.5	123	31.9	-	-	20	25.3
Generalized ischemic cerebrovascular disease (437)	-	-	8	2.1	-	-	4	5.1
Arteriosclerosis (440)	-	-	31	8.1	-	-	5	6.3
Other diseases of arteries, arterioles and capillaries (441-448)	2	8.8	31	8.1	-	-	8	10.1
Venous thrombosis & embolism (451-453)	-	-	-	-	-	-	-	-
Pneumonia (480-486)	10	44.2	73	19.0	-	-	15	18.9
Influenza (487)	-	-	3	0.8	-	-	-	-
Bronchitis, emphysema, asthma and COPD (490-496)	21	92.9	129	33.5	2	125.0	35	44.2
Gastric, duodenal, and peptic ulcer (531-533)	-	-	10	2.6	1	62.5	2	2.5
Hernia & intestinal obstruction (550-553, 560)	2	8.8	6	1.6	-	-	2	2.5
Cirrhosis of the liver (571)	2	8.8	21	5.5	-	-	3	3.8
Alcoholic cirrhosis (571.0-571.3)	1	4.4	15	3.9	-	-	2	2.5
Diseases of the gallbladder (574-576)	-	-	5	1.3	-	-	2	2.5
Nephritis & nephrosis (580-589)	1	4.4	15	3.9	-	-	11	13.9
Infections of the kidney (590)	-	-	1	0.3	-	-	-	-
Diseases of male genital organs (600-608)	-	-	-	-	-	-	-	-
Diseases of the uterus and other female genital organs (614-629)	-	-	-	-	-	-	-	-
Complications of pregnancy, childbirth and the puerperium (630-676)	-	-	-	-	-	-	-	-
Congenital anomalies (740-759)	-	-	2	0.5	-	-	-	-
Certain causes in early infancy (760-779)	1	4.4	13	3.4	-	-	3	3.8
Sudden infant death syndrome (798.0)	1	4.4	5	1.3	-	-	2	2.5
Unintentional injuries (800-949)	12	53.1	88	22.9	2	125.0	33	41.7
Motor vehicle-related (810-825)	3	13.3	41	10.6	-	-	16	20.2
Suicides (950-959)	5	22.1	40	10.4	-	-	16	20.2
Homicides (960-978)	1	4.4	6	1.6	-	-	3	3.8
Injuries undetermined whether accidentally or purposely inflicted (980-989)	-	-	4	1.0	-	-	-	-

- Quantity is zero.  
Rates per 100,000 population.

**TABLE 6-34.**  
**Causes Mentioned on the Death Certificate but Which Were Not the Underlying Cause of Death, by County of Residence, Oregon, 1997**

County of Residence	Heart Disease	Cancer	Cerebrovascular Disease	Chronic Obstructive Pulmonary Disease	Pneumonia and Influenza	Diabetes	Alzheimer's Disease and Dementia	Alcoholism*	Hypertension	Acquired Immune Deficiency Syndrome
<b>Total</b>	3,784	815	1,487	1,777	1,255	1,734	467	288	2,141	13
Baker	23	5	4	13	6	9	1	2	4	-
Benton	43	10	19	22	24	32	5	1	28	-
Clackamas	333	66	135	127	102	163	42	23	185	2
Clatsop	41	15	25	33	6	18	6	4	29	-
Columbia	43	14	13	14	17	29	5	-	20	-
Coos	121	27	32	71	46	56	11	9	59	1
Crook	24	8	18	18	5	7	4	2	16	-
Curry	35	6	13	23	19	15	1	4	12	-
Deschutes	92	27	35	40	23	47	7	8	70	-
Douglas	216	35	65	127	63	76	18	17	90	-
Gilliam	3	-	-	1	1	-	-	-	1	-
Grant	9	2	4	8	3	1	-	1	2	-
Harney	18	3	7	12	2	8	-	1	6	-
Hood River	20	5	8	9	9	11	3	1	15	-
Jackson	219	47	69	110	72	89	25	19	112	-
Jefferson	15	3	5	14	6	4	1	2	8	-
Josephine	128	32	55	62	28	66	24	14	76	-
Klamath	85	18	21	49	46	45	6	5	51	1
Lake	11	2	5	4	4	4	4	1	3	-
Lane	325	60	152	179	113	141	56	25	201	1
Lincoln	56	9	29	37	20	22	11	7	46	-
Linn	129	25	47	66	52	71	17	4	74	-
Malheur	33	4	9	15	19	14	3	-	11	-
Marion	325	78	117	136	95	129	36	29	191	-
Morrow	14	4	4	7	5	6	1	-	5	-
Multnomah	709	158	291	301	242	355	76	63	420	8
Polk	66	14	23	29	29	37	8	4	38	-
Sherman	4	1	1	-	-	2	-	1	1	-
Tillamook	38	10	15	21	14	9	2	4	19	-
Umatilla	92	16	39	38	25	44	12	3	56	-
Union	43	11	16	23	14	15	9	2	29	-
Wallowa	17	3	15	6	6	3	-	1	6	-
Wasco	46	6	12	21	17	24	8	5	26	-
Washington	327	72	142	117	96	137	56	18	180	-
Wheeler	2	-	2	-	-	-	-	1	-	-
Yamhill	79	19	40	24	26	45	9	7	51	-

- Quantity is zero.

\* Includes alcoholic liver disease, alcoholic gastritis, alcoholic polyneuropathy, alcoholic cardiomyopathy, and alcoholic psychosis.

**TABLE 6-35.**  
**Causes Mentioned on the Death Certificate but Which Were Not the Underlying Cause of Death, by**  
**Age and Sex, Oregon Residents, 1997**

Age and Sex	Heart Disease	Cancer	Cerebrovascular Disease	Chronic Obstructive Pulmonary Disease	Pneumonia and Influenza	Diabetes	Alzheimer's Disease and Dementia	Alcoholism*	Hypertension	Acquired Immune Deficiency Syndrome
<b>Both Sexes</b>	3,784	815	1,487	1,777	1,255	1,734	467	288	2,141	13
< 1	16	1	-	-	3	-	-	-	-	-
1-4	8	2	2	-	-	-	-	-	-	-
5-14	3	-	3	-	5	1	-	-	-	-
15-24	11	-	1	1	5	2	-	10	-	-
25-34	13	7	7	2	9	4	-	7	5	2
35-44	65	13	11	4	15	17	-	26	13	6
45-54	153	24	40	34	55	80	1	46	66	5
55-64	255	60	69	165	81	167	1	56	142	-
65-74	742	159	214	474	207	408	23	73	386	-
75-84	1,356	321	605	778	441	652	161	57	801	-
85-94	1,003	199	472	290	380	368	244	13	641	-
95+	159	29	63	29	54	35	37	-	87	-
<b>Males</b>	1,859	480	661	966	644	877	164	228	862	12
< 1	10	1	-	-	1	-	-	-	-	-
1-4	5	2	2	-	-	-	-	-	-	-
5-14	2	-	2	-	1	-	-	-	-	-
15-24	6	-	-	-	1	2	-	10	-	-
25-34	10	5	4	2	6	4	-	7	1	2
35-44	36	11	5	3	11	11	-	18	5	5
45-54	103	16	17	19	33	44	-	41	39	5
55-64	139	31	41	89	47	108	1	46	90	-
65-74	420	99	122	271	127	223	10	51	193	-
75-84	705	204	293	419	243	334	66	46	346	-
85-94	384	102	165	149	159	139	80	9	178	-
95+	39	9	10	14	15	12	7	-	10	-
<b>Females</b>	1,925	335	826	811	611	857	303	60	1,279	1
< 1	6	-	-	-	2	-	-	-	-	-
1-4	3	-	-	-	-	-	-	-	-	-
5-14	1	-	1	-	4	1	-	-	-	-
15-24	5	-	1	1	4	-	-	-	-	-
25-34	3	2	3	-	3	-	-	-	4	-
35-44	29	2	6	1	4	6	-	8	8	1
45-54	50	8	23	15	22	36	1	5	27	-
55-64	116	29	28	76	34	59	-	10	52	-
65-74	322	60	92	203	80	185	13	22	193	-
75-84	651	117	312	359	198	318	95	11	455	-
85-94	619	97	307	141	221	229	164	4	463	-
95+	120	20	53	15	39	23	30	-	77	-

- Quantity is zero.

\* Includes alcoholic liver disease, alcoholic gastritis, alcoholic polyneuropathy, alcoholic cardiomyopathy, and alcoholic psychosis.

**TABLE 6-36.**  
**Deaths Due to Firearms by Manner, Sex, Age, Race/Ethnicity, County of Residence, and**  
**Weapon Type, Oregon Residents, 1997**

Demographic Characteristics	Total	Unintentional Injuries			Suicide			Homicide <sup>1</sup>			Undetermined Manner		
		Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
<b>Total</b>	428	10	10	-	334	287	47	79	61	18	5	4	1
<b>Age</b>													
0-14	12	1	1	-	3	2	1	7	5	2	1	1	-
15-17	14	-	-	-	9	6	3	3	2	1	2	2	-
18-19	12	2	2	-	8	8	-	2	2	-	-	-	-
20-24	42	1	1	-	26	23	3	15	13	2	-	-	-
25-34	71	3	3	-	49	41	8	19	16	3	-	-	-
35-44	75	1	1	-	54	45	9	19	14	5	1	-	1
45-54	73	-	-	-	65	52	13	7	4	3	1	1	-
55-64	41	1	1	-	37	32	5	3	1	2	-	-	-
65-74	33	1	1	-	28	25	3	4	4	-	-	-	-
75-84	44	-	-	-	44	42	2	-	-	-	-	-	-
85+	11	-	-	-	11	11	-	-	-	-	-	-	-
<b>Race/Ethnicity</b>													
White	400	10	10	-	327	280	47	58	42	16	5	4	1
African American	19	-	-	-	3	3	-	16	15	1	-	-	-
Indian	6	-	-	-	3	3	-	3	3	-	-	-	-
Other	3	-	-	-	1	1	-	2	1	1	-	-	-
Hispanic <sup>2</sup>	23	1	1	-	7	7	-	14	13	1	1	1	-
<b>Selected Counties</b>													
Clackamas	39	1	1	-	33	31	2	5	4	1	-	-	-
Coos	18	1	1	-	13	9	4	4	3	1	-	-	-
Deschutes	15	-	-	-	13	11	2	2	1	1	-	-	-
Douglas	15	-	-	-	14	9	5	1	1	-	-	-	-
Jackson	26	1	1	-	22	22	-	3	3	-	-	-	-
Lane	41	-	-	-	37	29	8	2	2	-	2	2	-
Marion	20	-	-	-	16	14	2	4	4	-	-	-	-
Multnomah	96	1	1	-	59	49	10	35	26	9	1	1	-
Washington	29	-	-	-	24	22	2	4	2	2	1	1	-
All Others	129	6	6	-	103	91	12	19	15	4	1	-	1
<b>Weapon Type</b>													
Handgun	294	6	6	-	237	198	39	47	35	12	4	3	1
Shotgun	39	2	2	-	31	30	1	6	4	2	-	-	-
Rifle	70	2	2	-	58	54	4	10	8	2	-	-	-
Unspecified	25	-	-	-	8	5	3	16	14	2	1	1	-

<sup>1</sup> Includes legal intervention.

<sup>2</sup> Hispanics may be of any race.

**TABLE 6-37.**  
**Selected Causes of Death by City of Residence, Oregon, 1997**

City of Residence	Population	Total Deaths	Rate*	Heart Disease	Cancer	Cerebrovascular Disease	COPD	Unintentional Injuries	Pneumonia and Influenza	Diabetes	Alzheimer's Disease	Suicide
Oregon	3,217,000	28,750	893.7	7,500	6,790	2,582	1,648	1,281	909	816	718	538
Albany	37,830	371	980.7	112	85	32	19	9	14	7	16	4
Ashland	18,560	133	716.6	30	37	9	6	5	6	1	3	3
Astoria	10,110	104	1,028.7	37	19	9	4	6	6	5	3	1
Beaverton	66,225	559	844.1	132	153	47	23	14	16	23	21	9
Bend	33,740	309	915.8	84	75	32	14	10	11	7	5	4
Canby	11,725	122	1,040.5	41	26	7	6	3	3	4	2	2
Central Point	10,750	110	1,023.3	32	35	12	6	1	6	2	2	1
Coos Bay	15,635	220	1,407.1	46	56	18	10	15	12	10	8	1
Corvallis	51,145	316	617.9	78	61	45	19	14	16	2	18	8
Dallas	12,020	160	1,331.1	42	39	24	4	9	8	6	2	3
Eugene	129,300	1,116	863.1	233	259	91	64	58	40	32	34	23
Forest Grove	15,965	222	1,390.5	73	33	21	22	10	4	8	6	3
Gladstone	11,680	90	770.5	30	16	7	6	2	3	4	3	1
Grants Pass	20,535	338	1646.0	94	54	56	19	6	11	5	9	6
Gresham	81,865	645	787.9	160	148	59	39	30	28	21	20	9
Hermiston	11,340	111	978.8	22	35	7	7	5	5	5	1	1
Hillsboro	58,365	281	481.5	65	72	22	15	16	3	8	5	8
Keizer	28,340	229	808.0	52	54	49	10	5	2	6	1	3
Klamath Falls	18,830	231	1,226.8	64	37	11	16	11	7	9	10	3
LaGrande	12,700	155	1,220.5	39	28	10	10	8	6	5	2	3
Lake Oswego	34,065	224	657.6	47	58	23	10	5	5	5	8	8
Lebanon	12,190	168	1,378.2	43	39	15	10	12	6	3	3	1
McMinnville	23,485	258	1,098.6	68	59	18	16	13	6	4	9	5
Medford	57,610	696	1,208.1	184	145	66	49	19	20	26	23	13
Milwaukie	20,055	580	2,892.0	159	142	59	25	23	25	14	3	14
Newberg	16,765	138	823.1	35	26	12	6	5	4	1	5	1
Oregon City	21,895	234	1,068.7	67	49	24	10	8	8	5	6	2
Pendleton	16,180	157	970.3	43	27	11	16	7	7	2	4	1
Portland	508,500	4,821	948.1	1,157	1,081	408	275	223	147	159	128	95
Redmond	11,990	94	784.0	29	25	6	3	4	5	4	3	3
Roseberg	19,810	301	1,519.4	93	58	19	12	13	11	15	12	9
Salem	124,190	1,366	1,099.9	360	309	194	73	52	37	40	15	22
Springfield	50,670	483	953.2	113	110	42	35	18	18	14	9	15
The Dalles	11,600	173	1,491.4	45	42	11	14	10	6	-	3	3
Tigard	36,680	313	853.3	80	79	24	16	11	14	12	14	1
Troutdale	13,880	42	302.6	8	9	-	3	1	3	2	1	-
Tualatin	20,405	85	416.6	23	17	8	5	10	5	1	2	-
West Linn	20,415	98	480.0	25	22	8	8	2	7	2	4	-
Wilsonville	10,794	75	694.8	22	21	6	1	2	-	2	2	-
Woodburn	16,150	225	1,393.2	65	51	34	10	5	7	4	6	2

- Quantity is zero.

\* Rates per 100,000 population.

**TABLE 6-38.**  
**Unintentional Deaths Due to Drownings Occurring in Oregon, by Sex, Age, County of Injury, and Manner of Drowning, 1997**

Demographic Characteristics	Total	Boating	Recreation	Non-recreation	Bathub	Fall into Water	Swimming Pool & Not Stated
<b>Total</b>	82	14	19	1	8	19	21
<b>Sex</b>							
Male	67	13	16	1	4	16	17
Female	15	1	3	-	4	3	4
<b>Age</b>							
<1	1	-	-	-	1	-	-
1-4	5	-	1	-	1	2	1
5-14	10	1	5	-	-	2	2
15-17	7	1	2	-	-	1	3
18-19	1	1	-	-	-	-	-
20-24	8	2	2	-	-	2	2
25-34	14	2	2	-	1	3	6
35-44	11	2	3	1	3	2	-
45-54	7	2	2	-	1	-	2
55-64	4	-	1	-	-	1	2
65-74	4	2	1	-	-	1	-
75+	10	1	-	-	1	5	3
<b>County</b>							
Baker	2	-	-	-	-	2	-
Clackamas	3	-	-	-	-	1	2
Clatsop	5	-	3	-	-	-	2
Columbia	2	-	1	-	-	1	-
Coos	1	-	-	-	-	1	-
Curry	1	-	-	-	-	1	-
Deschutes	1	-	-	-	1	-	-
Douglas	1	1	-	-	-	-	-
Jackson	2	-	-	-	1	-	1
Jefferson	2	-	-	-	-	2	-
Josephine	3	-	3	-	-	-	-
Klamath	4	-	1	-	-	1	2
Lane	7	3	1	-	-	1	2
Lincoln	5	4	1	-	-	-	-
Linn	5	-	-	-	1	1	3
Malheur	2	-	-	-	-	2	-
Marion	6	1	-	-	1	2	2
Morrow	1	-	-	-	-	-	1
Multnomah	16	4	4	-	4	-	4
Tillamook	5	-	2	1	-	1	1
Umatilla	4	1	1	-	-	1	1
Wasco	2	-	1	-	-	1	-

NOTE: Boating includes all unintentional drownings resulting from boating mishaps but not deaths resulting from voluntarily jumping from a boat. Recreation includes water skiing, scuba diving, playing in water, etc. Non-recreation includes the (attempted) rescue of another person and other non-recreational swimming. Only counties with at least one drowning death are shown.

**TABLE 6-39.**  
**Selected Causes of Death Among Infants, Children, and Adolescents,**  
**by Age, Oregon Residents Less Than 20 Years Old, 1997**

Cause of Death	Total	Age Groups								
		0-17	1-17	13-19	<1	1-4	5-9	10-14	15-17	18-19
<b>Total</b>	<b>570</b>	<b>494</b>	<b>238</b>	<b>185</b>	<b>256</b>	<b>61</b>	<b>37</b>	<b>54</b>	<b>86</b>	<b>76</b>
<b>Total Natural Causes</b>	<b>341</b>	<b>329</b>	<b>89</b>	<b>40</b>	<b>240</b>	<b>30</b>	<b>17</b>	<b>20</b>	<b>22</b>	<b>12</b>
Perinatal Conditions	102	102	3	1	99	1	-	1	1	-
Congenital Anomalies	80	78	13	4	65	6	1	4	2	2
SIDS	36	36	-	-	36	-	-	-	-	-
Cancer	29	26	25	10	1	7	5	7	6	3
Heart Disease	9	8	6	2	2	3	2	-	1	1
Meningococcal Disease	8	8	3	-	5	2	1	-	-	-
Pneumonia & Influenza	7	7	2	1	5	1	-	-	1	-
Cerebral Palsy	7	7	7	3	-	1	3	2	1	-
Intestinal Vascular Insufficiency	4	4	1	-	3	-	-	-	1	-
Cerebrovascular Disease	4	4	1	1	3	-	-	-	1	-
Other	55	49	28	18	21	9	4	5	9	6
<b>Total External Causes</b>	<b>229</b>	<b>165</b>	<b>149</b>	<b>145</b>	<b>16</b>	<b>31</b>	<b>20</b>	<b>34</b>	<b>64</b>	<b>64</b>
Unintentional Injuries	167	119	111	105	8	26	17	21	47	48
Motor Vehicle Crash	107	65	64	82	1	11	8	12	33	42
Drowning <sup>1</sup>	22	21	20	9	1	6	5	3	6	1
Fires	10	10	10	1	-	4	2	3	1	-
Suffocation	9	9	3	1	6	2	-	-	1	-
Falls	4	3	3	2	-	1	1	-	1	1
Aircraft Accident	4	3	3	4	-	-	-	-	3	1
Gunshot Wound	3	1	1	3	-	-	-	1	-	2
Other	8	7	7	3	-	2	1	2	2	1
Suicide	31	18	18	29	-	-	-	7	11	13
Gunshot Wound	20	12	12	20	-	-	-	3	9	8
Hanging	8	6	6	6	-	-	-	4	2	2
Poisoning (Except Gas)	1	-	-	1	-	-	-	-	-	1
Other	2	-	-	2	-	-	-	-	-	2
Homicide	23	20	16	7	4	5	3	5	3	3
Gunshot Wound	12	10	10	6	-	1	1	5	3	2
Child Abuse/Neglect	3	3	1	-	2	1	-	-	-	-
Cutting	1	-	-	1	-	-	-	-	-	1
Other	7	7	5	-	2	3	2	-	-	-
Undetermined Manner	8	8	4	4	4	-	-	1	3	-
Gunshot Wound	3	3	3	3	-	-	-	1	2	-
Other	5	5	1	1	4	-	-	-	1	-
Gunshot (Any Manner)	38	26	26	32	-	1	1	10	14	12
Drug Overdose (Any Manner) <sup>2</sup>	4	3	1	2	2	-	-	-	1	1

<sup>1</sup> Includes both drownings that involved watercraft (ICD9: 830, 832) as well as those that did not (ICD9: 910).

<sup>2</sup> Includes overdoses of alcohol and other drugs by the decedents, as well as newborn deaths resulting from mother's substance abuse during pregnancy.

**TABLE 6-40.**  
**Place of Death by Sex, Age, and Selected Causes of Death, Oregon Residents, 1997**

Sex, Age, and Cause	Total		Hospital		Gov't Inst		Nursing Home		Jail		Home		Other	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
<b>Total</b>	28,750	100.0	9,007	0.3	310	-	8,943	0.3	14	-	9,097	0.3	1,379	-
<b>Sex</b>														
Males	14,269	100.0	4,726	33.1	296	2.1	3,370	23.6	14	0.1	4,886	34.2	977	6.8
Females	14,481	100.0	4,281	29.6	14	0.1	5,573	38.5	-	-	4,211	29.1	402	2.8
<b>Age Groups</b>														
< 1	256	100.0	225	87.9	-	-	4	1.6	-	-	20	7.8	7	2.7
1-4	61	100.0	37	60.7	-	-	3	4.9	-	-	12	19.7	9	14.8
5-14	91	100.0	52	57.1	-	-	3	3.3	-	-	16	17.6	20	22.0
15-24	353	100.0	102	28.9	-	-	11	3.1	-	-	68	19.3	172	48.7
25-34	468	100.0	154	32.9	3	0.6	11	2.4	1	0.2	148	31.6	151	32.3
35-44	966	100.0	345	35.7	6	0.6	57	5.9	5	0.5	346	35.8	207	21.4
45-54	1,696	100.0	667	39.3	28	1.7	134	7.9	3	0.2	666	39.3	198	11.7
55-64	2,534	100.0	953	37.6	40	1.6	279	11.0	5	0.2	1,085	42.8	172	6.8
65-74	5,392	100.0	2,012	37.3	98	1.8	949	17.6	-	-	2,185	40.5	148	2.7
75-84	8,914	100.0	2,823	31.7	112	1.3	2,921	32.8	-	-	2,870	32.2	188	2.1
85-94	6,757	100.0	1,473	21.8	21	0.3	3,697	54.7	-	-	1,473	21.8	93	1.4
95+	1,262	100.0	164	13.0	2	0.2	874	69.3	-	-	208	16.5	14	1.1
<b>Cause</b>														
Heart Disease	7,500	100.0	2,896	38.6	61	0.8	2,044	27.3	3	0.0	2,230	29.7	266	3.5
Cancer	6,790	100.0	1,423	21.0	89	1.3	1,469	21.6	1	0.0	3,627	53.4	181	2.7
Cerebrovascular Disease	2,582	100.0	833	32.3	18	0.7	1,386	53.7	-	-	332	12.9	13	0.5
COPD	1,648	100.0	550	33.4	30	1.8	542	32.9	-	-	502	30.5	24	1.5
Unintentional Injuries	1,281	100.0	415	32.4	6	0.5	137	10.7	1	0.1	174	13.6	548	42.8
Pneumonia & Influenza	909	100.0	372	40.9	12	1.3	448	49.3	-	-	65	7.2	12	1.3
Diabetes Mellitus	816	100.0	265	32.5	4	0.5	264	32.4	-	-	269	33.0	14	1.7
Alzheimer's Disease	718	100.0	33	4.6	1	0.1	584	81.3	-	-	94	13.1	6	0.8
Suicide	538	100.0	70	13.0	-	-	6	1.1	5	0.9	317	58.9	140	26.0
Alcoholic Diseases	376	100.0	146	38.8	17	4.5	66	17.6	-	-	131	34.8	16	4.3
Other Artery Disease	365	100.0	251	68.8	7	1.9	60	16.4	-	-	43	11.8	4	1.1
Arteriosclerosis	237	100.0	43	18.1	-	-	136	57.4	-	-	55	23.2	3	1.3
Hypertension	229	100.0	50	21.8	3	1.3	76	33.2	-	-	95	41.5	5	2.2
Congenital Anomalies	174	100.0	107	61.5	3	1.7	22	12.6	-	-	41	23.6	1	0.6
Homicide	131	100.0	40	30.5	-	-	2	1.5	2	1.5	35	26.7	52	39.7
Perinatal Conditions	102	100.0	95	93.1	-	-	3	2.9	-	-	3	2.9	1	1.0
AIDS	93	100.0	29	31.2	2	2.2	24	25.8	-	-	35	37.6	3	3.2
Amyotrophic Lateral Sclerosis	78	100.0	13	16.7	-	-	22	28.2	-	-	43	55.1	-	-
SIDS	36	100.0	26	72.2	-	-	-	-	-	-	7	19.4	3	8.3

**TABLE 6-41.**  
**Death Rates for Selected Leading Causes of Mortality,**  
**United States, 1983-1997**

Year	Total	Heart Disease	Cancer	Cerebrovascular Disease	Chronic Obstructive Pulmonary Disease <sup>1</sup>	Unintentional Injuries	Pneumonia and Influenza	Suicide	Diabetes
1983	862.8	329.2	189.3	66.5	28.3	39.5	23.9	12.1	15.5
1984	862.3	323.5	191.8	65.3	29.2	39.3	24.9	12.4	15.1
1985	873.9	323.0	193.3	64.1	31.3	39.1	28.3	12.3	15.5
1986	873.2	317.5	194.7	62.1	31.8	39.5	29.0	12.8	15.4
1987	874.2	312.4	195.9	61.6	32.2	39.0	28.4	12.7	15.8
1988	882.0	311.3	197.3	61.2	33.7	39.5	31.6	12.4	16.4
1989	866.3	295.6	199.9	58.6	34.0	38.3	30.8	12.2	18.9
1990	863.8	289.5	203.2	57.9	34.9	37.0	32.0	12.4	19.2
1991	860.3	285.9	204.1	56.9	35.9	35.4	30.9	12.2	19.4
1992	852.9	281.4	204.1	56.4	36.0	34.0	29.7	12.0	19.6
1993	880.0	288.4	205.6	58.2	39.2	35.1	32.1	12.1	20.9
1994	875.4	281.3	205.2	58.9	39.0	35.1	31.3	12.0	21.8
1995	880.0	280.7	204.9	60.1	39.2	35.5	31.6	11.9	22.6
1996	872.5	276.4	203.4	60.3	40.0	35.8	31.6	11.6	23.3
1997	864.7	271.6	201.6	59.7	40.7	35.7	32.3	11.4	23.4

YEAR	Arteriosclerosis	Alzheimer's Disease <sup>2</sup>	Perinatal Conditions	Homicide <sup>3</sup>	Hypertension	Acquired Immune Deficiency Syndrome	Parkinson's Disease	Congenital Anomalies	Sudden Infant Death Syndrome
1983	11.3	2.1	8.3	8.6	3.3	-	2.0	5.6	2.3
1984	10.3	2.9	8.0	8.4	3.3	-	2.1	5.5	2.2
1985	10.0	3.9	8.1	8.3	3.2	-	2.2	5.4	2.2
1986	9.4	4.5	7.6	9.0	3.3	-	2.3	5.2	2.2
1987	9.2	5.4	7.5	8.7	3.3	5.5	2.6	5.1	2.1
1988	9.0	6.2	7.4	9.0	3.4	6.8	2.6	5.2	2.2
1989	7.8	6.6	7.6	9.2	3.5	8.9	2.8	5.2	2.3
1990	7.3	7.1	7.1	10.0	3.7	10.1	2.9	5.3	2.2
1991	6.9	7.4	6.7	10.5	3.8	11.7	3.0	5.0	2.1
1992	6.6	7.7	6.2	10.0	4.0	13.2	3.0	4.9	1.9
1993	6.7	9.1	5.9	10.1	4.4	14.5	3.5	4.8	2.1
1994	6.6	10.4	5.6	9.6	4.5	16.2	3.8	4.6	1.8
1995	6.4	11.8	5.1	8.7	4.7	16.4	4.1	4.6	1.3
1996	6.3	8.1	4.9	7.9	4.9	11.7	4.5	4.5	1.0
1997	6.0	8.4	4.9	7.4	5.1	6.2	4.6	4.3	1.1

All rates per 100,000 population. A "-" indicates that the data is not available.

<sup>1</sup> COPD consists principally of bronchitis, emphysema, asthma, and chronic airway obstruction .

<sup>2</sup> Including Alzheimer's dementia.

<sup>3</sup> Including legal intervention.

**TABLE 6-42.**  
**Age-adjusted Death Rates for Residents of Oregon and the United States**  
**for the Leading Causes of Death, 1997**

Cause	Age-adjusted Rate <sup>1</sup>		Percent Difference	State Rank <sup>2</sup>	ICD-9 Codes <sup>3</sup>
	U.S.	Oregon			
Total	478.8	449.5	-6.1	36	001-999
Diseases of the Heart	130.1	101.4	-22.1	46	390-398, 402, 404-425.4, 425.6-429.9
Malignant Neoplasms	125.6	121.2	-3.5	32	140-208
Cerebrovascular Disease	25.9	29.0	12.0	11	430-438
COPD	21.1	24.5	16.1	16	490-496
Unintended Injuries	30.1	33.5	11.3	21	800-949
Pneumonia and Influenza	12.9	9.8	-24.0	47	480-487
Diabetes Mellitus	13.6	13.2	-2.9	25	250
Alzheimer's Disease	4.2	6.1	45.2	7	290.1, 331.0
Suicide	10.5	14.7	40.0	11	950-959
Other Diseases of the Arteries	5.4	5.6	3.7	22	441-448
Alcoholism and Allied Conditions	6.2	9.2	48.4	5	291, 303, 305.0, 357.5, 425.5, 535.3, 571-571.3
Acquired Immune Deficiency Syndrome	5.7	2.2	-61.4	34	042-044
Arteriosclerosis	2.1	2.4	14.3	15	440
Hypertension With/Without Renal Dis.	2.3	2.7	17.4	6	401, 403
Parkinsonism	1.8	2.3	27.8	11	332
Homicide and Legal Intervention	8.1	4.4	-45.7	37	960-979
Congenital Anomalies	4.1	4.8	17.1	9	740-759
Nephritis and Nephrosis	4.4	2.3	-47.7	47	580-586
Septicemia	4.1	1.7	-58.5	49	038
Hernia and Intestinal Obstruction	0.9	0.7	-22.2	51	550-553, 560
Perinatal Conditions	5.1	3.5	-31.4	42	760-779

1 Rates are adjusted to the U.S. standard million population and are per 100,000. Age-adjusted death rates allow the comparison of Oregon and the U.S. as if the population structure of each were identical. (Oregon's population is older than the U.S. as a whole.) Any differences in rates are due to factors other than age. The rates in this table were calculated using the federal Center for Disease Control and Prevention's (CDC) WONDER (Wide-Ranging Online Data for Epidemiological Research) system. These rates vary slightly from rates published by the National Center for Health Statistics because of different population estimate methodologies.

2 Ranked from high (1) to low (51) among the 50 states and the District of Columbia.

3 From the World Health Organization's International Classification of Disease, Ninth Edition.

**TABLE 6-43.**  
**Highest and Lowest Age-adjusted Death Rates by State, 1997**

Cause	Lowest		Highest	
	State	Rate	State	Rate
All Causes	Hawaii	374.9	Washington D.C.	712.0
Diseases of the Heart	Minnesota	93.0	Mississippi	187.8
Malignant Neoplasms	Utah	85.0	Washington D.C.	155.8
Cerebrovascular Disease	New York	19.2	South Carolina	39.2
COPD	Hawaii	10.8	Wyoming	32.1
Unintended Injuries	Massachusetts	15.1	New Mexico	52.1
Pneumonia and Influenza	New Hampshire	8.4	Mississippi	17.3
Diabetes Mellitus	Colorado	8.6	Louisiana	24.6
Alzheimer's Disease	New York	1.7	Washington <sup>4</sup>	7.3
Suicide	New Jersey	6.6	Nevada	22.1
Other Diseases of the Arteries	Utah	3.7	Vermont	6.9
Alcoholism and Allied Conditions	Hawaii	2.8	New Mexico	15.0
Acquired Immune Deficiency Syndrome	Iowa	1.0	Washington D.C.	45.0
Arteriosclerosis	Maryland <sup>2</sup>	1.1	Oklahoma <sup>3</sup>	3.9
Parkinsonism	Mississippi	1.0	North Dakota <sup>5</sup>	2.7
Hypertension				
With/Without Renal Disease	Rhode Island	1.2	Washington D.C.	7.5
Homicide and Legal Intervention	Maine	2.2	Washington D.C.	61.7
Congenital Anomalies	New Hampshire	3.3	West Virginia	5.9
Nephritis and Nephrosis	Iowa	2.1	Washington D.C.	9.3
Septicemia	California	0.8	Washington D.C.	14.6
Hernia and Intestinal Obstruction	Oregon <sup>1</sup>	0.7	Washington D.C.	2.0
Perinatal Conditions	Maine	2.8	Washington D.C.	11.6

<sup>1</sup> Oregon tied for lowest rate with two other states: California and Minnesota.

<sup>2</sup> Maryland tied for lowest rate with Delaware.

<sup>3</sup> Oklahoma tied for highest rate with Colorado.

<sup>4</sup> Washington tied for highest rate with Maine.

<sup>5</sup> North Dakota tied for highest rate with Utah.

# Fetal and Infant Mortality

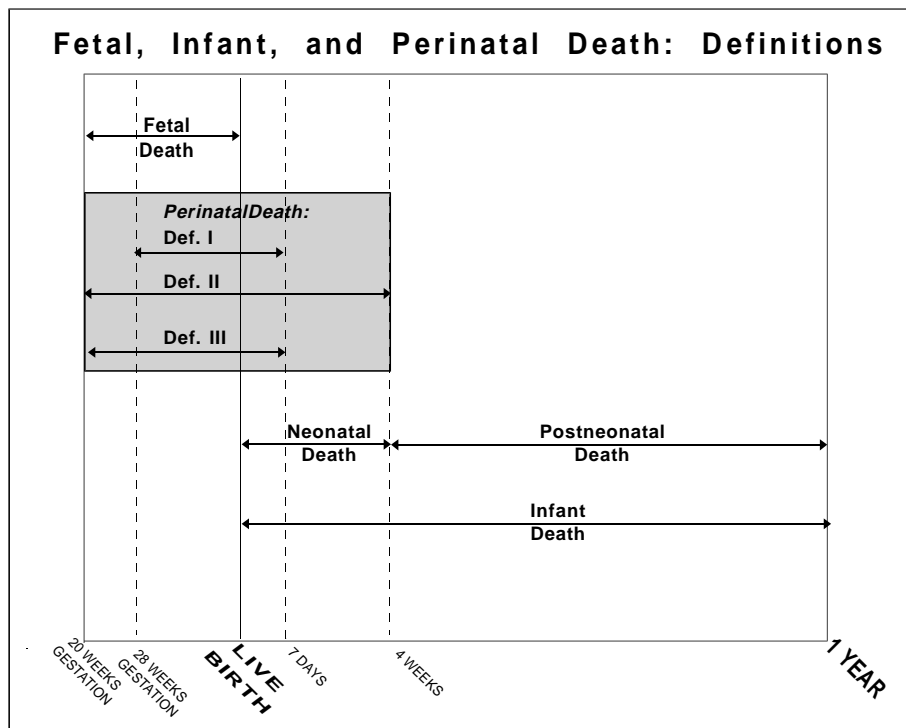
## INTRODUCTION

This report presents fetal and infant mortality data spanning the period of 20 weeks gestation through one year after birth. Although fetal and infant deaths are useful in statistically describing deaths within a given time frame, their fundamental purpose is to assist in discovering and evaluating preventive strategies to improve infant health. As an aid to understanding and monitoring health trends, this report divides fetal and infant deaths into five categories, which overlap and are not necessarily mutually exclusive: (1) fetal deaths, (2) perinatal deaths, (3) infant deaths, (4) neonatal deaths and (5) postneonatal deaths, as defined by the National Center for Health Statistics (see diagram).

This report analyzes the above categories using these three databases: (1) fetal deaths, (2) infant deaths and (3) births. National publications covering the subject may use one or any combination of these databases. As a result, death rates often vary slightly depending on which cohort was used as the source of the statistical data. Throughout this report, some tables display rates and ratios based on small numbers of events; therefore, use great caution in inferring causal relationships based solely on the data contained in these tables.

## DEFINITIONS AND METHODOLOGY

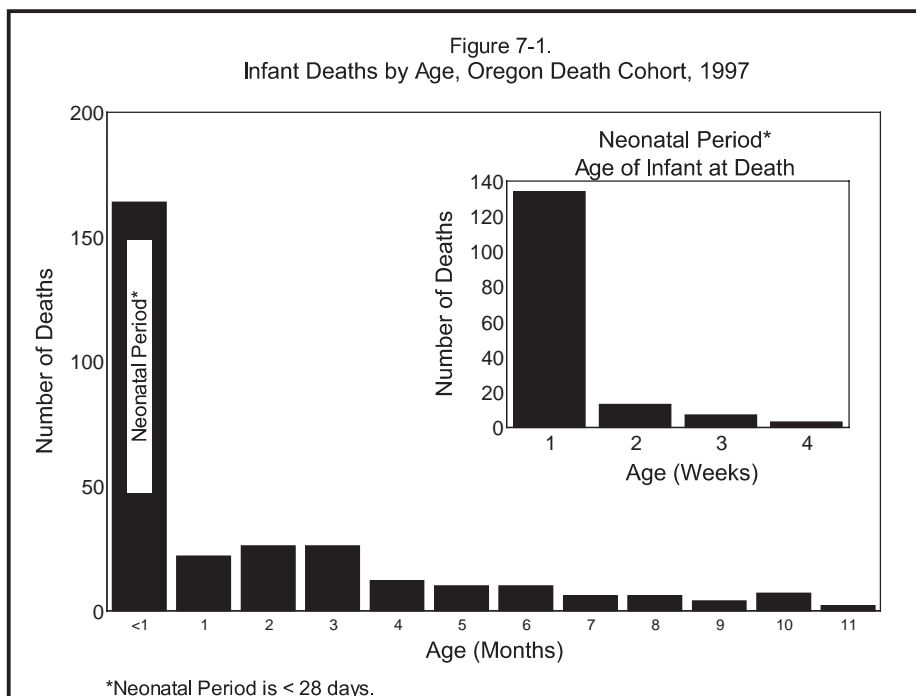
Before analyzing fetal and infant death data, it is necessary to define their different components.



- **Fetal deaths** are those that occur after 20 weeks gestation in which the developing fetus dies either in utero or upon delivery. They are classified as “early” (20-27 weeks gestation) or “late” (28 weeks gestation or more), and Oregon Public Health and Safety Laws require that they be reported.<sup>1</sup>
- **Infant deaths** are those that occur during a child's first year (i.e., measured from birth through 364 days). Infant deaths include both neonatal and postneonatal deaths.
 

**Neonatal deaths** occur during the first 27 days of life. Neonatal deaths may be “early” (under 7 days) or “late” (7-27 days).

**Postneonatal deaths** occur from day 28 through day 364 after birth.
- **Perinatal deaths-definition I** includes fetal deaths at 28 weeks gestation or more, and infant deaths of less than 7 days.
- **Perinatal deaths-definition II** includes fetal deaths at 20 weeks gestation or more and deaths of infants less than 28 days.
- **Perinatal deaths-definition III** includes fetal deaths at 20 weeks gestation or more and deaths of infants less than 7 days.
- The **death cohort** for infant death includes all infant deaths that occurred in any given calendar year, regardless of birth year. In this report, the death cohort consists of those infants who died in 1997.
- The **birth cohort** for matched infant death includes all infants born in the same calendar year who die within one year of their birth. In this report, the birth cohort consists of those infants who were born in 1996, and died in either 1996 or 1997.



### USE OF THE 1997 DEATH COHORT

This report uses data from the 1997 death cohort as the basis for analyzing infant deaths without maternal or birth characteristics, a standard demographic and health-status monitoring technique that yields the most timely and current information. Consistent longitudinal or historical data can be found more easily at national and local levels with a death cohort because its use does not involve matching corresponding birth records.

Infant characteristics at the time of death are derived from death certificates. The characteristics of most interest are age at death, county of residence at death and underlying cause of death. Total age-specific and cause-specific mortality ratios are computed by dividing the number of infant deaths in a calendar year by the number of births in the same calendar year.

### INFANT DEATH: BASIC FACTS

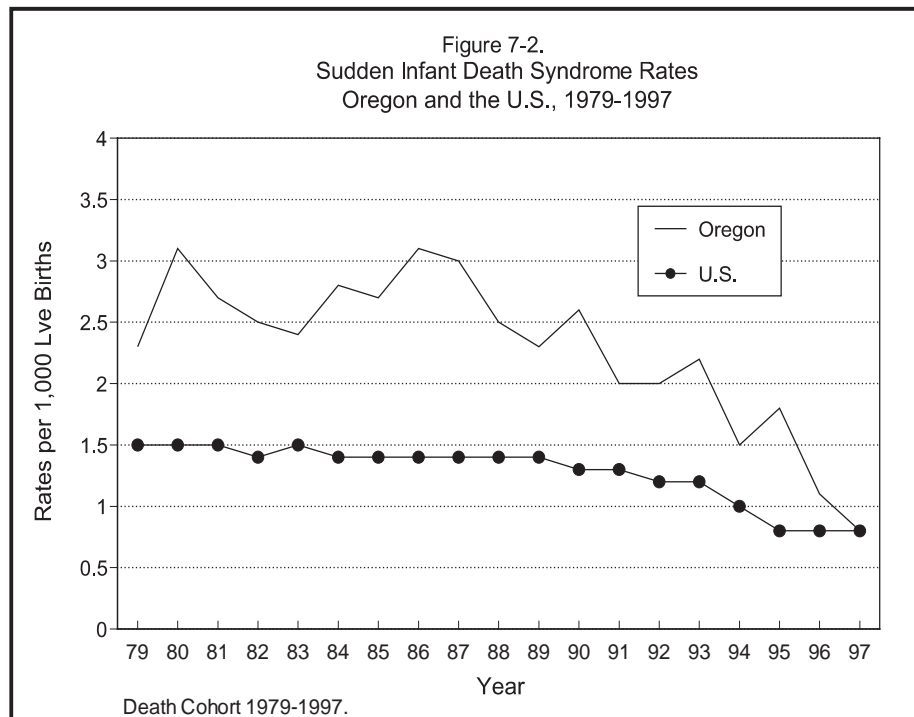
Here are the basic statistics on infant deaths in Oregon during 1997:

- 256 infants under age one died.
- The infant death rate was 5.8 deaths per 1,000 births, an increase of 3.6% over the previous year. The increase was not statistically significant.
- Oregon's infant death rate is 19 percent lower than the 1997 U.S. rate of 7.2 per 1,000 births. [Table 5-1].

---

***During 1997,  
256 infants under  
age one died.***

---



**SIDS deaths  
dropped from  
47 in 1996 to  
36 in 1997.**

**Sudden Infant Death Syndrome**

Sudden Infant Death Syndrome (SIDS) is the sudden and unexpected death of an apparently healthy infant under one year of age usually during the postneonatal period. Historically, Oregon's SIDS rate has been higher than the national rate and has been the leading cause of death among Oregon infants. [Figure 7-2].

The number of SIDS deaths dropped to 36 in 1997 from 47 deaths in 1996. In 1997, SIDS accounted for 14.1 percent of the state's total infant deaths and 34.3 percent of all postneonatal deaths. The 1997 Oregon SIDS death rate was 0.8 deaths per 1,000 live births, a 27 percent decrease from the 1996 rate of 1.1. The SIDS rate for 1997 is the lowest Oregon has recorded since the Health Division began tracking SIDS rates in 1979. [Figure 7-2].

After being 27 percent higher than the national rate in 1996, the 1997 rate of SIDS deaths in Oregon dropped to the same rate as the U.S. in 1997 (0.8 per 1,000 live births). Nationally, SIDS was responsible for 2,996 deaths in 1997 making it the third leading cause of infant mortality.<sup>2</sup> [Figure 7-2].

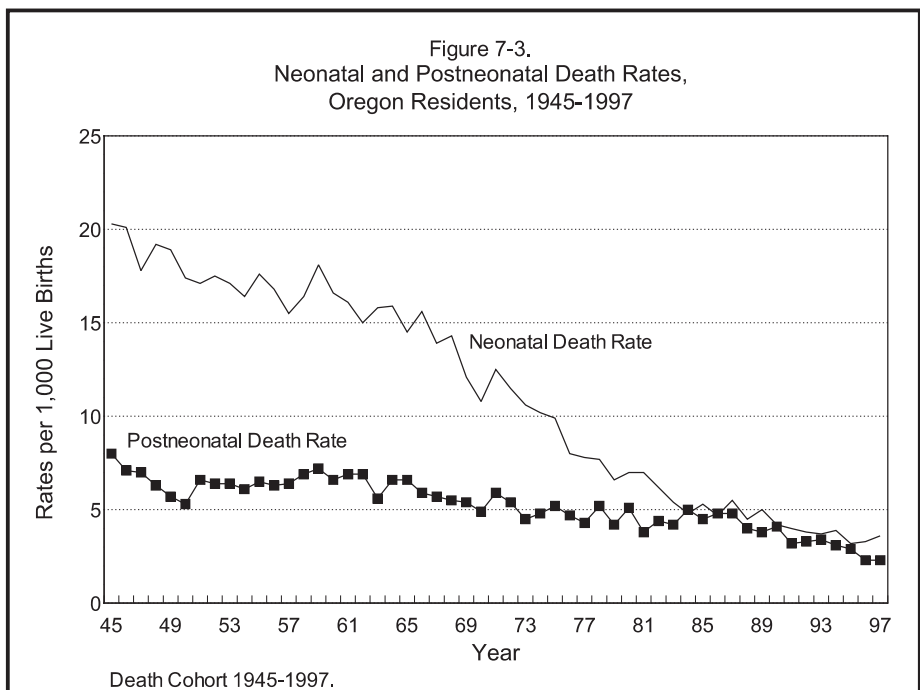
**NEONATAL DEATH**

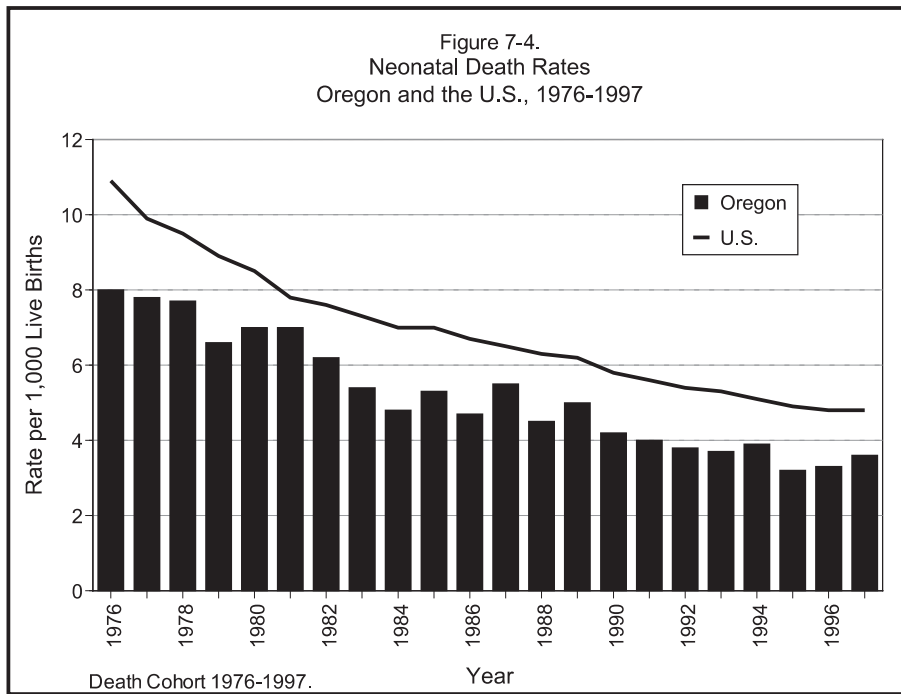
Neonatal and postneonatal death rates have been declining since 1945, when the neonatal death rate was 29.0 per 1,000 births and the postneonatal death rate was 15.0 per 1,000 births. In 1997, the neonatal death rate was 3.6 per 1,000 births and the postneonatal death rate was 2.3 per 1,000 births. [Figure 7-3].

In 1997, 157 infants died during the neonatal period, a 8.3 percent increase from the 145 deaths that occurred in 1996. Oregon's neonatal death rate has consistently been below that of the U.S. [Figure 7-4]. The 1997 rate is near Oregon's record low of 3.2 in 1995 and is 25 percent lower than the national rate of 4.8. [Tables 5-1 and 5-2]. As in previous years congenital anomalies were

Neonatal Deaths Due to Respiratory Distress Syndrome			
YEAR	NUMBER	PERCENT*	RATE **
1989	32	15.6	77.6
1990	12	6.7	28.0
1991	9	5.2	21.2
1992	7	4.1	16.7
1993	7	4.5	16.8
1994	10	6.1	23.9
1995	4	2.9	9.4
1996	5	3.4	11.5
1997	2	1.3	4.6

- Quantity is zero.  
\* Percent of neonatal deaths due to RDS.  
\*\* Per 100,000 live births.





responsible for more neonatal deaths (31%) than any other cause. [Table 7-2]. During the period from 1989 to 1997 the number of neonatal deaths due to Respiratory Distress Syndrome (RDS) decreased from 32 in 1989 to 2 in 1997. [Table 7-2].

### POSTNEONATAL DEATH

In 1997, 99 infants died during the postneonatal period, representing 39 percent of all infant deaths. The postneonatal death rate (2.3 per 1,000 live births) is Oregon's lowest recorded rate. [Figure 7-3]. No Oregon county had a rate that was statistically significantly different from the state rate. [Table 7-1].

Oregon's postneonatal death rate has typically been higher than the U.S. rate; however, in 1997, the state rate was 4 percent lower than that of the U.S. (2.4 per 1,000 live births).<sup>3</sup>

### FETAL DEATH

In 1997, there were 235 Oregon resident fetal deaths, representing a 6.9 percent decrease in the fetal death ratio from the preceding year (5.4 in 1997 versus 5.8 in 1996) (see sidebar). Fetal deaths were first reported to the Health Division in 1928, when the ratio was 29.0 for every 1,000 live births. Since then the ratio has followed a general downward trend, and has remained under 6.0 since 1992. [Figure 7-5].

Oregon's fetal death ratio has been typically lower than the U.S. ratio. In 1997, Oregon's rate was 22 percent lower than that of the U.S. (5.3 vs 6.8). [Table 5-1].

FETAL DEATH RATIOS PER 1,000 LIVE BIRTHS BY MOTHER'S AGE					
AGE	YEAR				
	1997	1996	1995	1994	1993
TOTAL	5.4	5.8	5.5	5.4	4.9
15-44	5.3	5.7	5.5	5.3	4.9
15-19	5.8	6.7	6.4	6.7	4.1
20-24	6.0	5.9	5.4	4.5	4.0
25-29	4.0	4.3	4.8	4.4	5.0
30-34	4.4	5.7	4.8	4.5	4.1
35-39	7.3	6.9	7.1	9.2	8.1
40-44	10.6	8.3	13.0	11.6	15.0

- As in previous years, most infants who died during 1997 were under 28 days old. [Figure 7-1]. More than four out of five (82%) of these neonatal deaths occurred within the first week of life.

### Cause of Death

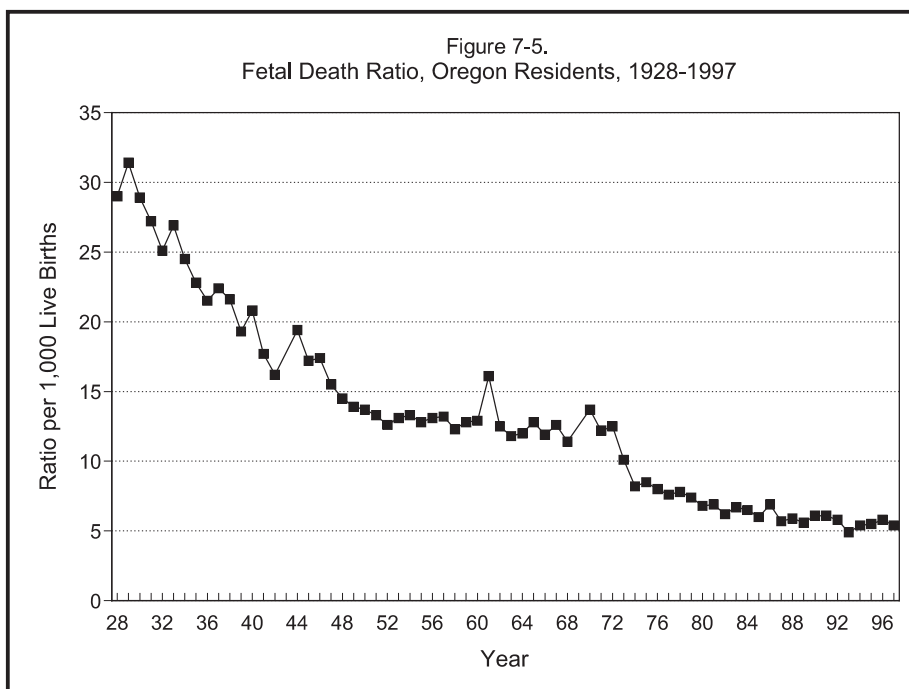
Causes of Oregon's 235 fetal deaths in 1997 are shown in table 7-4. The most frequently reported cause of fetal death in 1997 (n=104) was the residual category "other and ill defined." The second leading cause, "complications of the placenta, cord and membranes," totaled 68 deaths. Maternal complications of pregnancy with 21 deaths was third. The first three causes of death represented 82 percent of all 1997 Oregon fetal deaths. There was little change in the distribution of deaths by cause compared to previous years.

## USE OF THE 1996 BIRTH COHORT

### Methodology

Infant and perinatal death statistics can also be determined by use of a birth cohort, with all rates and ratios based on the number of births and fetal deaths that occurred in 1996. Because birth cohorts contain infants who die within their first year of life, some die during the following calendar year, thus requiring the inclusion of 1996 data in the 1997 report. For illustration, of the 240 deaths to infants born in 1996, 199 died in calendar year 1996 and 41 died in the calendar year 1997; only the 41 infants who died during 1997 are represented in the 1997 death cohort.

The Center for Health Statistics has produced tables containing infant and perinatal death data from the birth, fetal death, and matched infant death files. These birth cohort tables display data for infant and perinatal deaths according to several maternal risk



factors and low birthweight. Additionally, this report presents neonatal and postneonatal deaths that were matched to their corresponding birth. Thus, a birth occurring at the end of December 1996 may have a matched postneonatal death that occurred up to one year later, at the end of December 1997.

Use of a birth cohort from a matched birth and death file allows analysis of characteristics of an infant's mother during pregnancy and delivery. These are the characteristics of interest: mother's marital status, age, ethnicity, race, education, start of prenatal care, tobacco use, and alcohol use. The characteristics of the infant that are derived from the birth certificate and fetal death certificate include birthweight, gestational age, and county of residence at time of birth.

### **Small Numbers**

Because of the small numbers of events in some of the risk-factor categories, this report uses three-year groupings of the risk characteristics to improve statistical reliability. Single-year tables displaying risk factors are also included for comparison with statistics of prior years, but the analysis of risk factors and maternal characteristics are done using only the three-year tables.

### **Perinatal Deaths**

Beginning with data for 1979 the National Center for Health Statistics (NCHS) started publishing statistics for three perinatal definitions: Perinatal definition I, Perinatal definition II, and Perinatal definition III.<sup>3</sup> Beginning with the birth cohort data for 1991 the Oregon Center for Health Statistics added statistics to the annual report to include the NCHS perinatal definitions. Based on feedback from Oregon physicians, Perinatal definition III was found not to be useful and was subsequently dropped from these tables. This report focuses on neonatal deaths because the relationships among the independent variables are similar to those of Perinatal definition I and postneonatal deaths. (Please refer to page 7-1 for definitions). Perinatal death statistics are included within tables 7-13 through 7-16 to assist in international comparisons of data.

## **NEONATAL DEATHS 1994-1996**

The mothers of infants who died during the neonatal period had various characteristics that may have affected the outcome of their pregnancies. These include marital status, age, ethnicity and race, education, prenatal care, tobacco use, and alcohol use. [Table 7-16].

### **Birthweight**

The birthweight of an infant has long been a predictor of subsequent survival. An increase in birthweight is correlated with a decrease in the risk of neonatal death. For the period 1994-1996 the neonatal death rate generally decreased by one-half or more for each subsequent 250- to 500-gram increase in weight. [Table 7-12]. Nearly all the infants weighing less than 500 grams died. The death

---

***Birthweight  
has long been a  
predictor of  
survival.***

---

rate for infants weighing less than 500 grams was 930.7 per 1,000 live births, decreasing to 1.1 per 1,000 live births for infants weighing more than 2,500 grams. [Figure 7-6].

Many of the same behavioral, social and medical conditions associated with higher rates of infant deaths are also associated with lower birthweights, and some are highly associated with one another. This report does not try to account for or hold all these variables constant in relation to each other. Instead, it presents a simple descriptive analysis. Most variables have confounding or mitigating effects on each other.

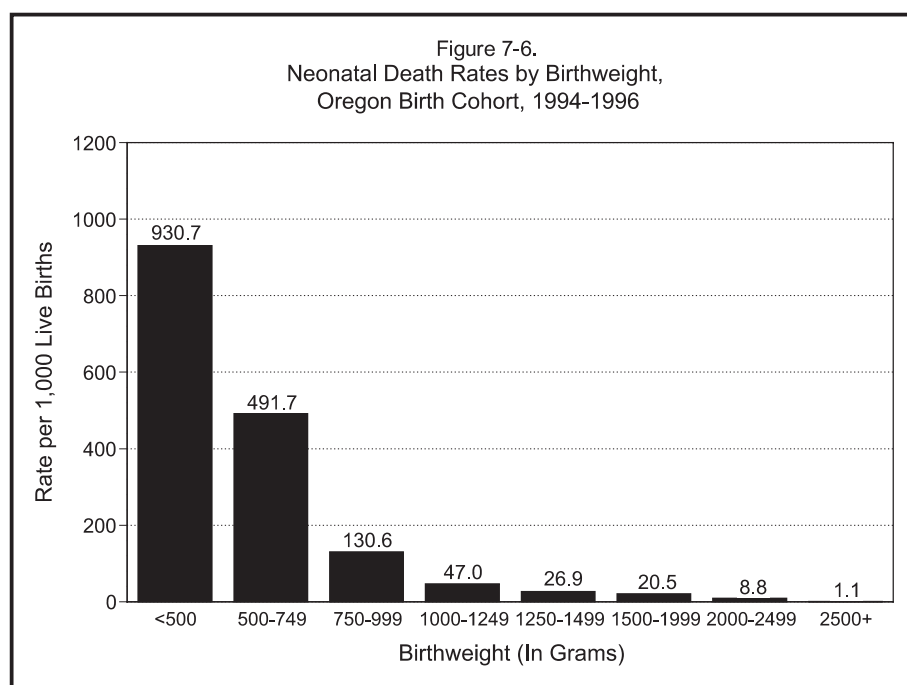
### Maternal Characteristics

Though most women reported being married at the time of birth, the neonatal death rate was statistically significantly higher for unmarried women (7.6 versus 1.8 per 1,000). [Table 7-18]. Women without a high school diploma or GED had a higher neonatal death rate than women with some college (4.4 versus 2.6). [Table 7-18].

The neonatal death rate for infants of African American mothers was higher than the neonatal death rate for infants of non-African American mothers but the difference was not statistically significant (5.3 vs. 3.4 per 1,000). [Table 7-18].

### Prenatal Care

Women who received any prenatal care had a statistically significantly lower neonatal death rate than women who received no prenatal care (3.3 versus 26.1 per 1,000). Among women who received prenatal care, those who began care in the first or second trimester displayed higher rates (3.3 and 3.5 per 1,000 births, respectively), than those receiving care beginning in the third trimester (2.1 per 1,000), probably due to the effect of gestational age. [Table 7-18].



### **Tobacco/Alcohol Use**

Among women who had infants die during the neonatal period, 19 percent reported using tobacco during their pregnancy. The infants of these women had a higher neonatal death rate compared to those women who did not use tobacco (3.6 versus 3.3 per 1,000). Approximately three percent (2.9%) of the mothers whose infants died during the neonatal period reported using alcohol during their pregnancy. Women who reported using alcohol during pregnancy also had a higher neonatal death rate than women who reported no alcohol use during pregnancy (3.8 versus 3.3 per 1,000). [Table 7-18].

There may be under-reporting of alcohol and tobacco use, thereby lowering the neonatal death rates for this category by eliminating high-risk people from the analysis.

### **POSTNEONATAL DEATHS 1994-1996**

Infants of teens 15-19 have a statistically significantly higher rate of postneonatal death than infants of women 30-34. Infants of African Americans have a statistically significantly higher rate of postneonatal death than infants of non-African American women. Infants of women who smoked during pregnancy have a statistically significantly higher rate of postneonatal death than infants of women who did not smoke. Differences in marital status and prenatal care are less disparate during the postneonatal period. [Table 7-18].

### **REFERENCES**

- 1 Prior to November 10, 1997, fetal deaths occurring at 20 weeks of gestation or more were reported. Effective November 10, 1997, the Oregon Legislature amended ORS 423.333 to read, "Each fetal death of 350 grams or more, or, if weight is unknown, of 20 completed weeks gestation or more, calculated from the date last normal menstrual period began to the date of delivery, that occurs in this state shall be reported within 5 days after delivery to the county registrar of the county in which the fetal death occurred or to the Center for Health Statistics or as otherwise directed by the Center for Health Statistics."
- 2 Peters KD, Kochonek KD, Murphy SL. Deaths: Final Data for 1996. National Vital Statistics Reports; vol 47 no 9, supp. Hyattsville, Maryland: National Center for Health Statistics. 1998.
- 3 Hoyert, D.L. "Perinatal Mortality in the United States:1985-91." U.S. Department of Health and Human Services, Public Health Services, Centers for Disease Control and Prevention, National Center for Health Statistics, 20 (26) August 1995.

**TABLE 7-1.**  
**Infant Deaths by Age and County of Residence, Oregon, 1997**

County of Residence	Total Infant Deaths <sup>1</sup>	Infant Death Rate <sup>2</sup>	Neonatal Deaths <sup>3</sup> (Age < 28 Days)				Neonatal Rate <sup>2</sup>	Post-Neonatal Deaths <sup>4</sup>	Post-Neonatal Rate <sup>2</sup>
			Total Neonatal	< 1 Day	1-6 Days	7-27 Days			
<b>Total</b>	256	5.8	157	103	26	28	3.6	99	2.3
Baker	1	5.6	-	-	-	-	-	1	5.6
Benton	3	3.6	3	3	-	-	3.6	-	-
Clackamas	30	7.4	18	11	4	3	4.4	12	2.9
Clatsop	1	2.4	-	-	-	-	-	1	2.4
Columbia	2	3.9	1	1	-	-	2.0	1	2.0
Coos	4	6.0	3	2	1	-	4.5	1	1.5
Crook	1	4.5	1	-	-	1	4.5	-	-
Curry	-	-	-	-	-	-	-	-	-
Deschutes	6	4.6	3	3	-	-	2.3	3	2.3
Douglas	12	10.6	8	7	1	-	7.1	4	3.5
Gilliam	-	-	-	-	-	-	-	-	-
Grant	1	10.5	1	1	-	-	10.5	-	-
Harney	-	-	-	-	-	-	-	-	-
Hood River	1	3.3	-	-	-	-	-	1	3.3
Jackson	11	5.3	8	3	4	1	3.8	3	1.4
Jefferson	1	3.2	-	-	-	-	-	1	3.2
Josephine	1	1.4	1	-	-	1	1.4	-	-
Klamath	8	9.9	6	4	1	1	7.4	2	2.5
Lake	-	-	-	-	-	-	-	-	-
Lane	18	5.0	13	10	1	2	3.6	5	1.4
Lincoln	2	4.5	1	-	-	1	2.2	1	2.2
Linn	10	7.0	6	3	1	2	4.2	4	2.8
Malheur	4	8.4	4	4	-	-	8.4	-	-
Marion	35	7.9	18	11	4	3	4.1	17	3.8
Morrow	1	6.8	1	-	-	1	6.8	-	-
Multnomah	45	5.0	26	16	3	7	2.9	19	2.1
Polk	4	5.7	4	2	1	1	5.7	-	-
Sherman	-	-	-	-	-	-	-	-	-
Tillamook	-	-	-	-	-	-	-	-	-
Umatilla	6	5.8	4	1	2	1	3.9	2	1.9
Union	4	13.4	-	-	-	-	-	4	13.4
Wallowa	-	-	-	-	-	-	-	-	-
Wasco	2	6.8	2	1	1	-	6.8	-	-
Washington	32	4.9	19	15	2	2	2.9	13	2.0
Wheeler	-	-	-	-	-	-	-	-	-
Yamhill	10	9.2	6	5	-	1	5.5	4	3.7

- Quantity is zero.

1. Infant death is the death of a child prior to its first birthday.

2. Rates per 1,000 live births.

3. Neonatal Deaths occur during the first 27 days of life.

4. Postneonatal Deaths occur from day 28 to 364 after birth.

§ Indicates statistically significant difference from the total.

**TABLE 7-2.**  
**Infant Deaths by Cause and Age at Death, Oregon Residents, Death Cohort 1997**

Cause of Death	Age Groups				
	Total Deaths	Under 1 day	1-6 Days	7-27 Days	All Neonates
<b>Total</b>	256	103	26	28	157
Rate	5.8	2.4	0.6	0.6	3.6
<b>Certain causes of mortality in early infancy</b>	99	69	8	15	92
Conditions of placenta and cord	13	11	1	1	13
Immaturity, unqualified	29	26	-	1	27
Birth trauma without mention of cause	1	-	1	-	1
Anoxic and hypoxic conditions	4	2	-	2	4
Respiratory distress syndrome	2	1	-	1	2
Other respiratory conditions	13	4	3	4	11
Other complications of pregnancy and delivery	16	11	3	-	14
All other	21	14	-	6	20
<b>Other diseases</b>	141	32	17	12	61
Congenital anomalies	65	29	11	9	49
Diseases of the nervous system	3	-	-	-	-
Pneumonia or influenza	5	1	-	-	1
Respiratory diseases	1	-	-	-	-
Sudden Infant Death Syndrome	36	-	1	1	2
All other diseases	31	2	5	2	9
<b>Violent and accidental causes</b>	16	2	1	1	4
Motor vehicle	1	-	-	-	-
Other unintentional causes	7	-	-	-	-
Homicide	4	2	-	-	2
Other external causes	4	-	1	1	2

NOTE: Rates per 1,000 live births.

Neonates are infants in the first 27 days of life. Postneonates are 28 days up to one year of age.

- Quantity is zero.

**TABLE 7-3.**  
**Fetal Deaths by Age of Mother and County of Residence, Oregon, 1997**

County of Residence	Total	Age of Mother							N.S.
		15-19	20-24	25-29	30-34	35-39	40-44	45+	
<b>Total</b>	235	31	68	50	40	32	10	-	-
Ratio to births <sup>2</sup>	5.4	5.8	6.0	4.0	4.4	7.3	10.6	-	-
Baker	3	-	1	2	-	-	-	-	-
Benton	4	-	2	1	-	1	-	-	-
Clackamas	16	3	5	2	3	2	1	-	-
Clatsop	2	-	-	-	1	1	-	-	-
Coos	1	-	1	-	-	-	-	-	-
Crook	2	-	1	1	-	-	-	-	-
Curry	2	-	-	2	-	-	-	-	-
Deschutes	9	3	1	1	2	2	-	-	-
Douglas	11	1	4	1	4	1	-	-	-
Gilliam	-	-	-	-	-	-	-	-	-
Grant	2	-	-	-	1	1	-	-	-
Harney	-	-	-	-	-	-	-	-	-
Hood River	4	-	2	2	-	-	-	-	-
Jackson	10	2	3	-	2	2	1	-	-
Jefferson	2	1	-	-	1	-	-	-	-
Josephine	5	1	1	2	-	1	-	-	-
Klamath	7	2	1	2	1	1	-	-	-
Lake	-	-	-	-	-	-	-	-	-
Lane	15	2	3	4	3	2	1	-	-
Lincoln	1	-	-	-	-	1	-	-	-
Linn	4	-	-	-	2	1	1	-	-
Malheur	7	1	-	3	2	-	1	-	-
Marion	22	-	6	7	4	2	1	-	-
Morrow	1	-	-	1	-	-	-	-	-
Multnomah	50	8	15	9	8	4	4	-	-
Polk	5	1	2	1	-	1	-	-	-
Sherman	1	-	1	-	-	-	-	-	-
Tillamook	4	-	1	2	1	-	-	-	-
Umatilla	7	1	2	-	2	2	-	-	-
Union	3	-	2	-	-	1	-	-	-
Wallowa	2	-	2	-	-	-	-	-	-
Wasco	3	-	-	3	-	-	-	-	-
Washington	25	4	9	4	3	5	-	-	-
Wheeler	-	-	-	-	-	-	-	-	-
Yamhill	5	1	3	-	-	1	-	-	-

- Quantity is zero, or ratio is based on less than 5 events.

<sup>1</sup> Total includes four events where the mother was <15.

<sup>2</sup> Ratios per 1,000 live births.

**TABLE 7-4.**  
**Fetal Deaths by Weeks of Gestation and Cause of Death, Oregon, 1997**

Cause of Death	Total	Weeks of Gestation						
		20-23	24-27	28-31	32-35	36	37-39	40
<b>Total</b>	235	45	40	31	37	12	44	13
Congenital anomalies	17	3	2	3	4	3	1	-
Maternal conditions which may be unrelated	6	2	1	-	1	-	2	-
Maternal complications of pregnancy	21	13	3	3	-	-	2	-
Complications of placenta, cord and membranes	68	7	19	6	10	4	14	5
Other complications of labor and delivery	6	-	-	1	1	-	1	1
Slow fetal growth and malnutrition	1	-	-	-	-	-	1	-
Short gestation & low birthweight	5	2	1	2	-	-	-	-
Long gestation & high birthweight	-	-	-	-	-	-	-	-
Birth trauma	-	-	-	-	-	-	-	-
Intrauterine hypoxia and birth asphyxia	2	-	-	-	-	-	-	1
Respiratory distress syndrome	-	-	-	-	-	-	-	-
Other respiratory	-	-	-	-	-	-	-	-
Perinatal infections	1	-	-	-	1	-	-	-
Fetal and neonatal hemorrhage	1	1	-	-	-	-	-	-
Hemolytic disease	1	-	1	-	-	-	-	-
Other perinatal jaundice	-	-	-	-	-	-	-	-
Endocrine or metabolic disturbances	1	-	-	1	-	-	-	-
Hematological disorders	-	-	-	-	-	-	-	-
Digestive disorders	-	-	-	-	-	-	-	-
Integument & temperature regulation	1	1	-	-	-	-	-	-
Other & ill-defined	104	16	13	15	20	5	23	6

- Quantity is zero.

NOTE: Calculated gestation from reported date of last menses.

If calculated gestation is unknown, the clinical estimate of gestation is used.

**TABLE 7-5.**  
**Fetal Death by Weeks of Gestation and**  
**Age of Mother, Oregon Residents, 1997**

Age of Mother	Total	Weeks of Gestation								
		20-23	24-27	28-31	32-35	36	37-39	40	41+	N.S.
<b>Total</b>	235	45	40	31	37	12	44	13	12	1
<15	4	2	-	-	1	-	1	-	-	-
15-19	31	6	7	5	2	1	7	2	1	-
20-24	68	11	16	8	13	2	9	5	4	-
25-29	50	6	7	9	12	1	11	3	1	-
30-34	40	11	6	4	2	3	7	2	4	1
35-39	32	8	3	3	7	3	6	-	2	-
40-44	10	1	1	2	-	2	3	1	-	-
45+	-	-	-	-	-	-	-	-	-	-
N. S.	-	-	-	-	-	-	-	-	-	-

- Quantity is zero.

NOTE: Calculated gestation from reported date of last menses. If calculated gestation is unknown, the clinical estimate of gestation is used.

**TABLE 7-6.**  
**Births by Weeks of Gestation and Weight, Oregon Residents, 1996**

Birthweight (In Grams)	Total	Weeks of Gestation								
		*20-23	24-27	28-31	32-35	36	37-39	40	41+	N.S.
<b>Total</b>	43,645	62	115	328	1,395	1,193	15,387	10,786	14,337	33
000-349	18	11	-	-	-	-	-	-	-	-
350-499	17	14	1	2	-	-	-	-	-	-
<500	35	25	1	2	-	-	-	-	-	-
500-749	69	16	37	10	1	-	2	-	1	1
750-999	79	6	37	28	5	-	1	1	1	-
1000-1249	98	2	14	57	21	1	1	1	1	-
1250-1499	121	1	3	59	38	6	10	2	2	-
1500-1999	466	-	5	74	242	45	67	16	17	-
2000-2499	1,468	-	8	28	360	205	609	110	148	-
<2500	2,336	50	105	258	667	257	690	130	170	1
2500-2999	5,824	4	3	22	304	423	2,957	1,001	1,105	5
3000-3499	15,603	4	5	23	255	315	6,186	4,033	4,769	13
3500-3999	14,141	3	2	18	129	152	4,280	4,009	5,539	9
4000-4499	4,773	1	-	3	30	38	1,086	1,361	2,251	2
4500+	964	-	-	4	10	8	188	250	502	2
Unknown	4	-	-	-	-	-	-	2	1	1

- Quantity is zero.

\* There were 9 live births where gestational age was less than 20 weeks.

NOTE: Calculated gestation from reported date of last menses. If calculated gestation is unknown, the clinical estimate of gestation is used.

**TABLE 7-7.**  
**Fetal Deaths by Weeks of Gestation and Weight,**  
**Oregon Residents, 1996**

Birthweight (In Grams)	Total	Weeks of Gestation								
		20-23	24-27	28-31	32-35	36	37-39	40	41+	N.S.
<b>Total</b>	251	59	36	37	34	12	38	14	21	-
000-349	21	14	5	1	-	1	-	-	-	-
350-499	30	22	5	3	-	-	-	-	-	-
<500	51	36	10	4	-	1	-	-	-	-
500-749	40	15	15	8	1	-	1	-	-	-
750-999	19	1	5	6	6	-	1	-	-	-
1000-1249	19	1	3	8	6	1	-	-	-	-
1250-1499	10	-	2	4	4	-	-	-	-	-
1500-1999	18	-	-	6	6	1	4	1	-	-
2000-2499	16	-	-	1	3	4	6	1	1	-
<2500	173	53	35	37	26	7	12	2	1	-
2500-2999	20	-	-	-	4	3	5	4	4	-
3000-3499	29	-	-	-	3	2	13	6	5	-
3500-3999	11	-	-	-	-	-	5	2	4	-
4000-4499	5	-	-	-	-	-	-	-	5	-
4500+	3	-	-	-	-	-	1	-	2	-
Unknown	-	-	-	-	-	-	-	-	-	-

- Quantity is zero.

NOTE: Calculated gestation from reported date of last menses. If calculated gestation is unknown, the clinical estimate of gestation is used.

**TABLE 7-8.**  
**Early Neonatal Deaths by Weeks of Gestation and Weight, Oregon Residents,**  
**Birth Cohort 1996**

Birthweight (In Grams)	Total	Weeks of Gestation									
		< 20	20-23	24-27	28-31	32-35	36	37-39	40	41+	N.S.
<b>Total</b>	112	8	40	20	9	2	5	9	9	10	
000-349	18	7	11	-	-	-	-	-	-	-	
350-499	16	-	14	1	1	-	-	-	-	-	
499 and less	34	7	25	1	1	-	-	-	-	-	
500-749	31	1	14	14	1	-	-	-	-	1	
750-999	8	-	-	4	4	-	-	-	-	-	
1000-1249	2	-	1	-	1	-	-	-	-	-	
1250-1499	4	-	-	1	1	1	-	1	-	-	
1500-1999	3	-	-	-	1	-	1	-	1	-	
2000-2499	4	-	-	-	0	1	1	1	1	-	
<2500	86	8	40	20	9	2	2	2	2	1	
2500-2999	11	-	-	-	-	-	2	5	2	2	
3000-3499	7	-	-	-	-	-	1	1	2	3	
3500-3999	5	-	-	-	-	-	-	1	2	2	
4000-4499	3	-	-	-	-	-	-	-	1	2	
4500+	-	-	-	-	-	-	-	-	-	-	
Unknown	-	-	-	-	-	-	-	-	-	-	

- Quantity is zero.

NOTE: Calculated gestation from reported date of last menses. If calculated gestation is unknown, the clinical estimate of gestation is used.

Early neonatal death is defined as less than 7 days old.

**TABLE 7-9.**  
**Late Neonatal Deaths by Weeks of Gestation and Weight,**  
**Oregon Residents, Birth Cohort, 1996**

Birthweight (In Grams)	Total	Weeks of Gestation									
		< 20	20-23	24-27	28-31	32-35	36	37-39	40	41+	N.S.
<b>Total</b>	29	-	-	4	2	-	-	10	6	7	-
000-349	-	-	-	-	-	-	-	-	-	-	-
350-499	-	-	-	-	-	-	-	-	-	-	-
<500	-	-	-	-	-	-	-	-	-	-	-
500-749	5	-	-	3	2	-	-	-	-	-	-
750-999	1	-	-	1	-	-	-	-	-	-	-
1000-1249	-	-	-	-	-	-	-	-	-	-	-
1250-1499	-	-	-	-	-	-	-	-	-	-	-
1500-1999	-	-	-	-	-	-	-	-	-	-	-
2000-2499	-	-	-	-	-	-	-	-	-	-	-
<2500	6	-	-	4	2	-	-	-	-	-	-
2500-2999	5	-	-	-	-	-	-	3	2	-	-
3000-3499	8	-	-	-	-	-	-	5	-	3	-
3500-3999	4	-	-	-	-	-	-	1	1	2	-
4000-4499	2	-	-	-	-	-	-	1	-	1	-
4500+	2	-	-	-	-	-	-	-	2	-	-
Unknown	2	-	-	-	-	-	-	-	1	1	-

- Quantity is zero.

NOTE: Calculated gestation from reported date of last menses. If calculated gestation is unknown, the clinical estimate of gestation is used.

Late neonatal death is defined as death at 7 days or older.

**TABLE 7-10.**  
**Postneonatal Deaths by Weeks of Gestation and Weight,**  
**Oregon Residents, Birth Cohort, 1996**

Birthweight (In Grams)	Total	Weeks of Gestation								
		20-23	24-27	28-31	32-35	36	37-39	40	41+	N.S.
<b>Total</b>	99	-	2	5	12	6	32	19	23	-
000-349	-	-	-	-	-	-	-	-	-	-
350-499	-	-	-	-	-	-	-	-	-	-
<500	-	-	-	-	-	-	-	-	-	-
500-749	-	-	-	-	-	-	-	-	-	-
750-999	1	-	-	-	1	-	-	-	-	-
1000-1249	3	-	1	1	1	-	-	-	-	-
1250-1499	2	-	-	-	1	1	-	-	-	-
1500-1999	8	-	1	4	3	-	-	-	-	-
2000-2499	12	-	-	-	3	1	5	-	3	-
<2500	26	-	2	5	9	2	5	-	3	-
2500-2999	15	-	-	-	1	1	7	3	3	-
3000-3499	35	-	-	-	2	1	16	9	7	-
3500-3999	17	-	-	-	-	1	3	5	8	-
4000-4499	3	-	-	-	-	-	-	1	2	-
4500+	3	-	-	-	-	1	1	1	-	-

- Quantity is zero.

NOTE: Gestation is calculated from reported date of last menses. If calculated gestation is unknown, the clinical estimate of gestation is used.

**TABLE 7-11.**  
**Neonatal Deaths by Birthweight,**  
**Oregon Residents, Birth Cohort 1996**

Birthweight (In Grams)	Deaths	Rate
<b>Total</b>	141	3.2
000-349	18	1000.0
350-499	16	941.2
<500	34	971.4
500-749	36	521.7
750-999	9	113.9
1000-1249	2	-
1250-1499	4	-
1500-1999	3	-
2000-2499	4	-
<2500	92	39.4
2500-2999	16	2.7
3000-3499	15	1.0
3500-3999	9	0.6
4000-4499	5	1.0
4500+	2	-
2500+	47	1.1
Unknown	2	-

Rate per 1,000 live births.

- Quantity is zero, or rate is based on less than 5 events.

**TABLE 7-12.**  
**Neonatal Deaths by Birthweight,**  
**Oregon Residents,**  
**Birth Cohort 1994-96**

Birthweight (In Grams)	Deaths	Rate
<b>Total</b>	445	3.5
000-349	43	955.6
350-499	51	910.7
<500	94	930.7
500-749	89	491.7
750-999	29	130.6
1000-1249	14	47.0
1250-1499	9	26.9
1500-1999	27	20.5
2000-2499	39	8.8
<2500	301	43.6
2500-2999	46	2.7
3000-3499	48	1.1
3500-3999	30	0.7
4000-4499	9	0.6
4500+	5	1.7
2500+	138	1.1
Unknown	6	500.0

Rate per 1,000 live births.

- Quantity is zero, or rate is based on less than 5 events.

**TABLE 7-13.**  
**Perinatal Death Rates by County of Residence,**  
**Oregon Residents, Birth Cohort 1996**

County of Residence	Perinatal I <sup>1</sup>			Perinatal II <sup>2</sup>			Neonatal <sup>3</sup>	
	No.	Ratio	Rate	No.	Ratio	Rate	No.	Rate
<b>Total</b>	268	6.1	6.1	392	9.0	8.9	141	3.2
Baker	-	-	-	-	-	-	-	-
Benton	6	7.1	7.1	8	9.5	9.5	4	-
Clackamas	26	6.4	6.4	39	9.6	9.6	15	3.7
Clatsop	-	-	-	2	-	-	1	-
Columbia	3	-	-	3	-	-	2	-
Coos	4	-	-	7	10.9	10.8	1	-
Crook	-	-	-	-	-	-	-	-
Curry	2	-	-	3	-	-	2	-
Deschutes	6	4.6	4.6	10	7.7	7.7	3	-
Douglas	9	8.2	8.1	11	10.0	9.9	4	-
Gilliam	-	-	-	-	-	-	-	-
Grant	-	-	-	-	-	-	-	-
Harney	2	-	-	2	-	-	-	-
Hood River	1	-	-	1	-	-	1	-
Jackson	15	7.3	7.3	20	9.7	9.7	8	3.9
Jefferson	3	-	-	4	-	-	2	-
Josephine	4	-	-	8	9.7	9.6	2	-
Klamath	11	13.3	13.1	13	15.7	15.3	5	6.0
Lake	1	-	-	1	-	-	1	-
Lane	25	6.8	6.8	35	9.5	9.5	16	4.4
Lincoln	2	-	-	3	-	-	-	-
Linn	8	5.7	5.6	10	7.1	7.0	2	-
Malheur	3	-	-	4	-	-	2	-
Marion	23	5.2	5.2	46	10.4	10.3	19	4.3
Morrow	-	-	-	-	-	-	-	-
Multnomah	58	6.4	6.4	83	9.1	9.1	27	3.0
Polk	5	7.4	7.4	7	10.4	10.4	1	-
Sherman	-	-	-	-	-	-	-	-
Tillamook	-	-	-	1	-	-	-	-
Umatilla	6	6.0	6.0	6	6.0	6.0	5	5.0
Union	2	-	-	3	-	-	1	-
Wallowa	1	-	-	1	-	-	1	-
Wasco	1	-	-	3	-	-	1	-
Washington	33	5.2	5.2	48	7.6	7.6	13	2.1
Wheeler	-	-	-	-	-	-	-	-
Yamhill	7	6.6	6.6	9	8.5	8.5	2	-

- Quantity is zero, or number of events is less than five for ratios and rates.

<sup>1</sup> Perinatal Definition I, generally used for international comparisons, includes fetal deaths at 28 weeks of gestation or more, and infant deaths of less than 7 days.

<sup>2</sup> Perinatal Definition II, includes fetal deaths at 20 weeks of gestation or more, and infant deaths of less than 28 days.

<sup>3</sup> Neonatal deaths, includes infant deaths of less than 28 days.

**TABLE 7-14.**  
**Perinatal Death Rates by County of Residence,**  
**Oregon Residents, Birth Cohort 1994-1996**

County of Residence	Perinatal I <sup>1</sup>			Perinatal II <sup>2</sup>			Neonatal <sup>3</sup>	
	No.	Ratio	Rate	No.	Ratio	Rate	No.	Rate
<b>Total</b>	798	6.2	6.2	1161	9.1	9.0	445	3.566
Baker	4	-	-	7	13.3	13.3	4	-
Benton	18	7.5	7.5	28	11.7	11.6	11	4.6
Clackamas	56	4.7	4.7	88	7.4	7.4	37	3.1
Clatsop	12	9.8	9.8	17	13.9	13.8	6	4.9
Columbia	7	4.8	4.8	10	6.9	6.9	4	-
Coos	7	3.7	3.7	13	6.9	6.9	3	-
Crook	3	-	-	3	-	-	1	-
Curry	2	-	-	4	-	-	3	-
Deschutes	20	5.5	5.5	32	8.8	8.8	15	4.1
Douglas	29	8.5	8.5	36	10.6	10.5	12	3.5
Gilliam	-	-	-	-	-	-	-	-
Grant	1	-	-	1	-	-	-	-
Harney	2	-	-	3	-	-	1	-
Hood River	8	9.0	8.8	9	10.2	9.8	5	5.6
Jackson	44	7.1	7.1	65	10.5	10.5	27	4.3
Jefferson	6	6.9	6.8	8	9.2	9.0	4	-
Josephine	17	7.1	7.0	28	11.6	11.6	10	4.2
Klamath	20	7.8	7.7	30	11.7	11.5	15	5.8
Lake	1	-	-	1	-	-	1	-
Lane	65	6.0	6.0	95	8.7	8.7	44	4.0
Lincoln	6	4.5	4.5	12	9.0	8.9	3	-
Linn	28	7.0	6.9	37	9.2	9.0	18	4.5
Malheur	10	6.7	6.7	18	12.1	12.1	8	5.4
Marion	97	7.6	7.6	137	10.8	10.7	55	4.3
Morrow	4	-	-	4	-	-	1	-
Multnomah	165	6.1	6.1	244	9.0	9.0	83	3.1
Polk	16	8.0	8.0	19	9.5	9.5	4	2.0
Sherman	-	-	-	-	-	-	-	-
Tillamook	3	4.2	4.2	4	5.6	5.5	2	2.8
Umatilla	21	7.0	7.0	25	8.3	8.3	15	5.0
Union	4	-	-	7	7.9	7.9	2	-
Wallowa	3	-	-	3	-	-	1	-
Wasco	3	-	-	6	6.9	6.7	3	-
Washington	95	5.2	5.2	138	7.6	7.6	40	2.2
Wheeler	-	-	-	-	-	-	-	-
Yamhill	20	6.5	6.5	28	9.1	9.1	7	2.3

- Quantity is zero, or number of events is less than five for ratios and rates.

<sup>1</sup> Perinatal Definition I, generally used for international comparisons, includes fetal deaths at 28 weeks of gestation or more, and infant deaths of less than 7 days.

<sup>2</sup> Perinatal Definition II, includes fetal deaths at 20 weeks of gestation or more, and infant deaths of less than 28 days.

<sup>3</sup> Neonatal deaths, includes infant deaths of less than 28 days.

**TABLE 7-15.**  
**Perinatal Death Rates by Mother's Risk Factors,**  
**Oregon Residents, Birth Cohort 1996**

Risk Factor	Perinatal I <sup>1</sup>			Perinatal II <sup>2</sup>			Neonatal <sup>3</sup>	
	No.	Ratio	Rate	No.	Ratio	Rate	No.	Rate
<b>Total</b>	268	6.1	6.1	392	9.0	8.9	141	3.2
<b>Marital Status</b>								
Married	137	4.5	4.5	198	6.5	6.4	46	1.5
Unmarried	131	10.1	10.1	194	15.0	14.9	95	7.3
<b>Age of Mother</b>								
15-19	39	6.9	6.8	62	10.9	10.9	24	4.2
20-24	74	6.6	6.5	97	8.6	8.6	30	2.7
25-29	57	4.6	4.6	91	7.4	7.4	38	3.1
30-34	55	6.0	6.0	82	8.9	8.9	30	3.3
35-39	29	6.9	6.8	42	9.9	9.9	13	3.1
40-44	8	9.4	9.4	10	11.8	11.7	3	-
45+	4	-	-	5	128.2	119.0	2	-
<b>Mother's Ethnicity/Race*</b>								
White (non-Hispanic)	204	5.8	5.8	298	8.5	8.5	101	2.9
Hispanic (all races)	42	7.7	7.5	63	11.5	11.1	26	4.8
African American	8	9.2	9.1	16	18.3	18.1	4	-
Indian	3	-	-	4	-	-	2	-
Other non-white	11	6.7	6.7	13	7.9	7.9	8	4.9
<b>Mother's Education</b>								
8th grade or less	21	7.8	7.8	31	11.5	11.4	9	3.3
Some HS	50	7.6	7.6	72	11.0	10.9	26	4.0
HS diploma/GED	94	6.4	6.3	134	9.1	9.0	50	3.4
More than HS	78	4.1	4.1	124	6.6	6.6	49	2.6
<b>Start of Prenatal Care</b>								
1st trimester	198	5.7	5.7	295	8.5	8.4	114	3.3
2nd trimester	47	6.7	6.6	65	9.2	9.2	21	3.0
3rd trimester	5	3.6	3.6	8	5.8	5.8	3	-
no care	11	35.4	34.5	14	45.0	43.5	3	-
<b>Tobacco Use</b>								
Yes	64	8.3	8.2	88	11.4	11.3	25	3.2
No	194	5.4	5.4	294	8.2	8.2	111	3.1
<b>Alcohol Use</b>								
Yes	7	7.0	7.0	10	10.0	9.9	3	-
No	249	5.9	5.9	370	8.8	8.8	131	3.1
<b>Multiple Birth</b>								
Yes	32	29.1	29.0	46	41.9	41.1	26	23.7
No	236	5.5	5.5	346	8.1	8.1	115	2.7

\*Unless specified, racial categories do not include Hispanic ethnicity.

NOTE: Because of unreported items, the sum of all categories may not equal the total.

- Quantity is zero, or number of events is less than five for ratios and rates.

<sup>1</sup> Perinatal Definition I, generally used for international comparisons, includes fetal deaths at 28 weeks of gestation or more, and infant deaths of less than 7 days.

<sup>2</sup> Perinatal Definition II, includes fetal deaths at 20 weeks of gestation or more, and infant deaths of less than 28 days.

<sup>3</sup> Neonatal deaths, includes infant deaths of less than 28 days.

**TABLE 7-16.**  
**Perinatal Death Rates by Mother's Risk Factors, Oregon Residents, Birth Cohort, 1994-1996**

Risk Factor	Perinatal I <sup>1</sup>			Perinatal II <sup>2</sup>			Neonatal <sup>3</sup>	
	No.	Ratio	Rate	No.	Ratio	Rate	No.	Rate
<b>Total</b>	798	6.2	6.2	1161	9.1	9.0	445	3.5
<b>Marital Status</b>								
Married	420	4.6	4.6	624	6.9	6.8	162	1.8
Unmarried	378	10.1	10.1	537	14.4	14.3	283	7.6
<b>Age of Mother</b>								
15-19	111	6.8	6.8	176	10.8	10.7	67	4.1
20-24	218	6.5	6.5	299	9.0	8.9	121	3.6
25-29	197	5.5	5.5	276	7.7	7.7	114	3.2
30-34	145	5.3	5.2	221	8.0	8.0	84	3.0
35-39	83	6.8	6.8	131	10.7	10.7	37	3.0
40-44	31	12.5	12.4	41	16.6	16.4	13	5.3
45+	6	47.2	46.2	7	55.1	53.4	3	-
<b>Mother's Ethnicity/Race*</b>								
white (non-Hispanic)	627	6.0	6.0	909	8.7	8.7	354	3.4
Hispanic (all races)	113	7.6	7.6	159	10.7	10.7	60	4.0
African American	22	8.3	8.2	44	16.5	16.4	14	5.3
Indian	8	4.5	4.5	12	6.7	6.7	5	2.8
Other non-white	25	5.4	5.4	32	6.9	6.9	11	2.4
<b>Mother's Education</b>								
8th grade or less	69	9.0	9.0	89	11.7	11.6	37	4.8
Some HS	137	7.1	7.0	201	10.4	10.3	83	4.3
HS diploma/GED	266	6.1	6.0	391	8.9	8.9	153	3.5
More than HS	263	4.8	4.8	396	7.2	7.2	143	2.6
<b>Start of Prenatal Care</b>								
1st trimester	567	5.6	5.6	850	8.4	8.3	332	3.3
2nd trimester	149	7.0	7.0	203	9.6	9.5	75	3.5
3rd trimester	18	4.2	4.2	24	5.6	5.6	9	2.1
no care	48	46.4	45.4	58	56.0	54.4	27	26.1
<b>Tobacco Use</b>								
Yes	180	7.9	7.8	258	11.3	11.2	83	3.6
No	592	5.7	5.6	870	8.3	8.3	344	3.3
<b>Alcohol Use</b>								
Yes	33	10.3	10.3	45	14.1	13.9	12	3.8
No	733	6.0	5.9	1076	8.8	8.7	408	3.3
<b>Multiple Birth</b>								
Yes	73	23.3	23.1	119	38.0	37.3	61	19.5
No	725	5.8	5.8	1042	8.3	8.3	384	3.1

\*Unless specified, racial categories do not include Hispanic ethnicity.

NOTE: Because of unreported items, the sum of all categories may not equal the total.

- Quantity is zero, or number of events is less than five for ratios and rates.

<sup>1</sup> Perinatal Definition I, generally used for international comparisons, includes fetal deaths at 28 weeks of gestation or more, and infant deaths of less than 7 days.

<sup>2</sup> Perinatal Definition II, includes fetal deaths at 20 weeks of gestation or more, and infant deaths of less than 28 days.

<sup>3</sup> Neonatal deaths, includes infant deaths of less than 28 days.

TABLE 7-17.

**Neonatal, Postneonatal and Infant Death Rates by Mother's Risk Factors, Oregon Residents, Birth Cohort 1996**

Risk Factor	Neonatal <sup>1</sup> Deaths		Postneonatal <sup>2</sup> Deaths		Infant <sup>3</sup> Deaths	
	Number	Rate	Number	Rate	Number	Rate
<b>Total</b>	141	3.2	99	2.3	240	5.5
<b>Marital Status</b>						
Married	46	1.5	49	1.6	95	3.1
Unmarried	95	7.3	50	3.9	145	11.2
<b>Age of Mother</b>						
15-19	24	4.2	26	4.6	50	8.8
20-24	30	2.7	23	2.0	53	4.7
25-29	38	3.1	18	1.5	56	4.6
30-34	30	3.3	20	2.2	50	5.4
35-39	13	3.1	7	1.7	20	4.7
40-44	3	-	4	-	7	8.3
45+	2	-	-	-	2	-
<b>Mother's Ethnicity/Race*</b>						
White (non-Hispanic)	101	2.9	76	2.2	177	5.1
Hispanic (all races)	26	4.8	11	2.0	37	6.8
African American	4	-	8	9.2	12	13.8
Indian	2	-	2	-	4	-
Other non-white	8	4.9	2	-	10	6.1
<b>Mother's Education</b>						
8th grade or less	9	3.3	7	2.6	16	6.0
Some HS	26	4.0	21	3.2	47	7.2
HS diploma/GED	50	3.4	35	2.4	85	5.7
More than HS	49	2.6	33	1.8	82	4.4
<b>Start of Prenatal Care</b>						
1st trimester	114	3.3	66	1.9	180	5.2
2nd trimester	21	3.0	31	4.4	52	7.4
3rd trimester	3	-	2	-	5	3.6
no care	3	-	-	-	3	-
<b>Tobacco Use</b>						
Yes	25	3.2	32	4.1	57	7.4
No	111	3.1	67	1.9	178	5.0
<b>Alcohol Use</b>						
Yes	3	-	4	-	7	7.0
No	131	3.1	94	2.2	225	5.4
<b>Multiple Birth</b>						
Yes	26	23.7	3	-	29	26.4
No	115	2.7	96	2.3	211	5.0

\*Unless specified, racial categories do not include Hispanic ethnicity.

NOTE: Because of unreported items, the sum of all categories may not equal the total.

- Quantity is zero, or rate is based on less than 5 events.

<sup>1</sup> Neonatal deaths, include infant deaths at 28 or fewer days of age.

<sup>2</sup> Postneonatal Deaths, include infant deaths after 28 days, but before age 1.

<sup>3</sup> Infant deaths, include neonatal and postneonatal deaths up to age 1.

**TABLE 7-18.**  
**Neonatal, Postneonatal and Infant Death Rates by Mother's Risk Factors,**  
**Oregon Residents, Birth Cohort 1994-1996**

Risk Factor	Neonatal <sup>1</sup> Deaths		Postneonatal <sup>2</sup> Deaths		Infant <sup>3</sup> Deaths	
	Number	Rate	Number	Rate	Number	Rate
<b>Total</b>	445	3.5	325	2.5	770	6.0
<b>Marital Status</b>						
Married	162	1.8	161	1.8	323	3.6
Unmarried	283	7.6	164	4.4	447	12.0
<b>Age of Mother</b>						
15-19	67	4.1	76	4.6	143	8.7
20-24	121	3.6	96	2.9	217	6.5
25-29	114	3.2	68	1.9	182	5.1
30-34	84	3.0	52	1.9	136	4.9
35-39	37	3.0	23	1.9	60	4.9
40-44	13	5.3	5	2.0	18	7.3
45+	3	-	-	-	3	-
<b>Mother's Ethnicity/Race*</b>						
White (non-Hispanic)	354	3.4	256	2.5	610	5.9
Hispanic (all races)	60	4.0	33	2.2	93	6.3
African American	14	5.3	21	7.9	35	13.2
Indian	5	2.8	4	-	9	5.0
Other non-white	11	2.4	11	2.4	22	4.7
<b>Mother's Education</b>						
8th grade or less	37	4.8	25	3.3	62	8.1
Some HS	83	4.3	88	4.5	171	8.8
HS diploma/GED	153	3.5	115	2.6	268	6.1
More than HS	143	2.6	92	1.7	235	4.3
<b>Start of Prenatal Care</b>						
1st trimester	332	3.3	223	2.2	555	5.5
2nd trimester	75	3.5	80	3.8	155	7.3
3rd trimester	9	2.1	14	3.3	23	5.4
no care	27	26.1	8	7.7	35	33.8
<b>Tobacco Use</b>						
Yes	83	3.6	124	5.4	207	9.0
No	344	3.3	198	1.9	542	5.2
<b>Alcohol Use</b>						
Yes	12	3.8	15	4.7	27	8.5
No	408	3.3	305	2.5	713	5.8
<b>Multiple Birth</b>						
Yes	61	19.5	13	4.1	74	23.6
No	384	3.1	312	2.5	696	5.6

\*Unless specified, racial categories do not include Hispanic ethnicity.

NOTE: Because of unreported items, the sum of all categories may not equal the total.

- Quantity is zero, or rate is based on less than 5 events.

<sup>1</sup> Perinatal Definition I, generally used for international comparisons, includes fetal deaths at 28 weeks of gestation or more, and infant deaths of less than 7 days.

<sup>2</sup> Perinatal Definition II, includes fetal deaths at 20 weeks of gestation or more and infant deaths of less than 28 days.

<sup>3</sup> Neonatal deaths, includes infant deaths of less than 28 days.

# Adolescent Suicide Attempts

## INTRODUCTION

During 1997, 31 of Oregon's youth (under age 20) committed suicide, the smallest number since 1989. The youngest were two 12-year-olds, a boy and girl, both of whom hanged themselves. At the same time, no fewer than 736 non-fatal suicide attempts were made by Oregon adolescents.

Suicide by adolescents has caused increasing concern both nationally and in Oregon. In 1987, the Oregon legislature created a law (ORS 441.750) mandating that hospitals treating a child age 17 or younger for injuries resulting from a suicide attempt report the attempt to the Oregon Health Division. The law became effective in January 1988; it also requires that the patient be referred for counseling.

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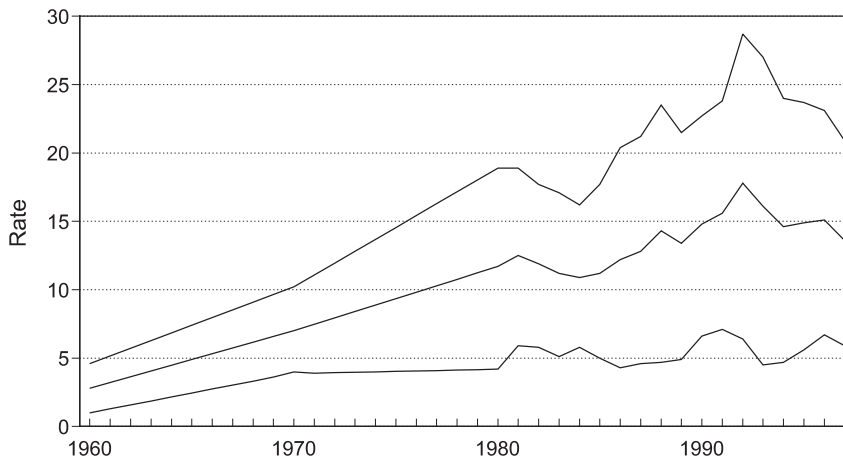
***During 1995-1997 the suicide rate for Oregonians 15-19 years old was five times higher than during 1959-1961.***

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## SUICIDE TRENDS

During the 1960s, '70s, and '80s, the suicide death rate rose dramatically, especially among males. However, since the early 1990s the rate has trended downward, perhaps signaling a cessation of the long-term upward trend. Nonetheless, during 1995-1997, Oregonians 15-19 years old were 4.9 times more likely to commit suicide than were their counterparts during 1959-1961. The suicide death rate among males increased over that time from 4.6 to 20.9 per 100,000; among females, it increased from 1.0 to 5.9. For both sexes combined, the rate increased from 2.8 to 13.6. However, these

Figure 8-1.  
Suicide Rates for 15- to 19-Year-Olds, 1959-61,  
1969-71, 1979-81, and Three-Year Moving  
Averages, 1981-97, Oregon Residents



Note: Because population data by age and sex are not available for the 1960s and 1970s, rates for these years, other than those based on decennial census data, have been interpolated. Therefore, variations within 10-year periods prior to 1980 are not apparent. Rates are per 100,000 population for the groups at risk.

Number of Attempts by Year and Sex			
Year	Total	Male	Female
1988	648	110	535
1989	624	120	499
1990	526	118	406
1991	577	124	453
1992	685	141	544
1993	723	113	610
1994	773	187	586
1995	753	150	603
1996	778	163	615
1997	736	151	585

Attempters of unknown sex are included in the total.

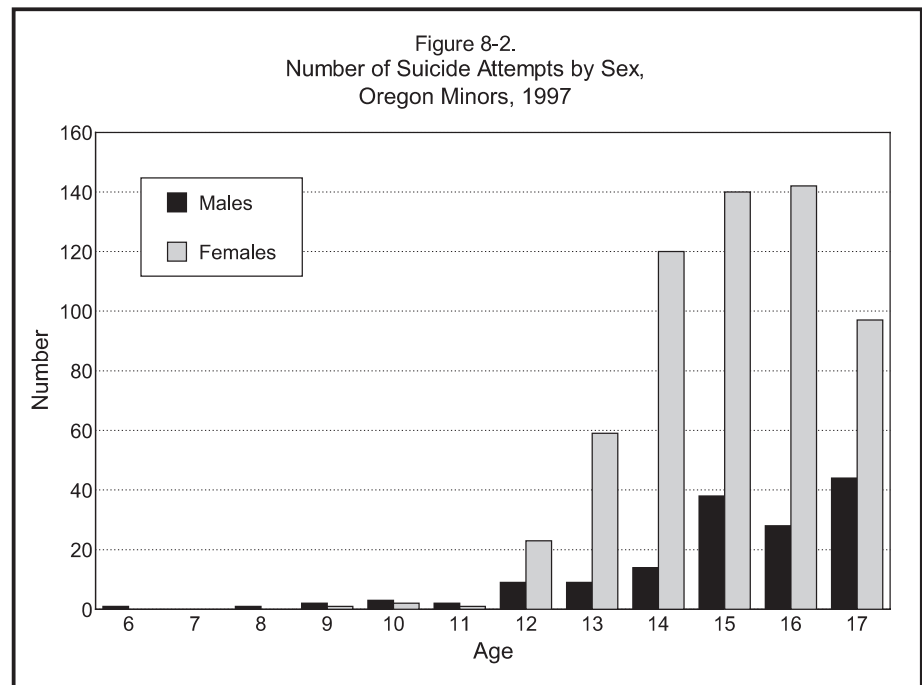
rates are based on relatively few events and therefore subject to considerable random statistical variation. This is especially true of the rates for females. Figure 8-1 illustrates the variable nature of suicide rates for 15-19 year old Oregonians during recent years.

### SUICIDE ATTEMPT TRENDS

Paralleling the decline seen in the number of fatal suicide attempts, was the drop in reported non-fatal attempts. During 1997, 736 attempts by minors were reported to the Health Division, down from 778 reported the previous year.

The Oregon system identifies only attempters with injuries severe enough to require emergency care at a hospital; consequently, the number of events reported must be considered a minimum. Additionally, not all attempts that should have been reported by hospitals actually were; some large hospitals are known to substantially under-report the number of events. [Table 8-20]. The magnitude of the undercount is, unfortunately, not known. The Technical Notes section in Appendix B describes the methodology and limitations of the data.

Unlike previous years, the proportion of attempters described with a specified characteristic is based on only those cases with known values; that is, attempts in the “not stated” categories are excluded before the percentages are calculated. In most cases, the difference in the calculated percentage between this new methodology and the previous is negli-



gible, but others (e.g., number of attempts) show a more substantial difference.

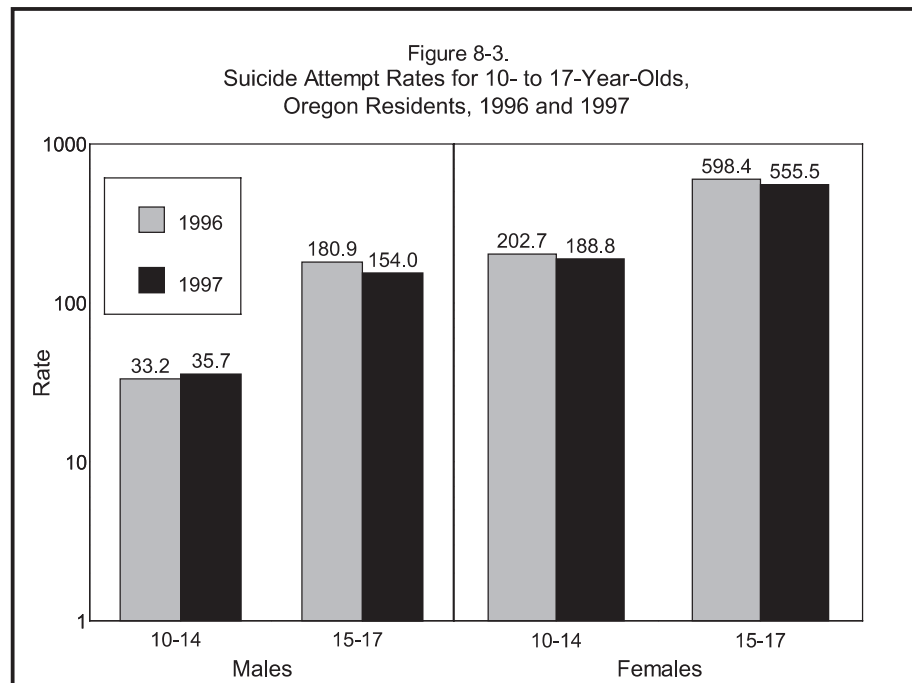
**AGE**

The youngest child to attempt suicide was just six years old, a boy who was motivated by family discord; he had made previous attempts. Forty-five attempts by preteens were reported, seven fewer than the previous year. Attempts by 15- to 17-year-olds decreased 5.4 percent. As in years past, 15- to 17-year-olds accounted for two-thirds (66%) of all attempts among Oregon minors. [Figure 8-2].

**SEX**

Girls were far more likely to attempt suicide than were boys; four-fifths (80%) of all attempts were by girls. [Table 8-2]. The sex- and age-specific attempt rates declined for all groups except for a marginal increase among 10-14 year old boys.

Although girls more often made attempts, attempts by males more often resulted in death, a consequence of their using more lethal methods. During 1997, the completion rate for males less than 18 years of age was 6.6 percent compared to just 1.4 percent for females in this age group. Overall, 2.4 percent of the reported attempts ended in death. Two-thirds (68%) of suicides by teens and preteens during 1997 were committed by males.



Number of Attempts		
Race	1996	1997
White	659	651
African American	20	17
Indian	9	12
Chinese	0	0
Japanese	0	0
Hawaiian	0	0
Filipino	0	0
Other Asian and Pacific Islanders	13	11
Hispanic	29	31
Not Stated	48	14

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***Children living with a parent and stepparent were most likely to give multiple reasons for their attempts.***

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## RACE

The number of suicide attempts by race/ethnicity are shown in the sidebar to the left. Reflecting the racial/ethnic composition of the state, most attempters were white, but marked differences in suicide death rates have been recorded between the races (See the report, *Multicultural Health: Mortality Patterns by Race and Ethnicity, Oregon, 1986-1994.*)

## HOUSEHOLD SITUATION

One-third of attempters lived with both parents (33%). Ranking second were attempters who lived with their mother only (28%) while 16 percent lived with a parent and stepparent. Just 3.2 percent lived with their father only. [Table 8-3]. Those who lived with a parent and stepparent more often cited three or more reasons for their attempted suicide, 29 percent did so versus 14 percent in all other living situations. Adolescents living under government supervision were most likely to have made prior attempts; 75 percent had done so.

## GEOGRAPHIC DISTRIBUTION

While the suicide attempt rate for the state was 202.4 per 100,000 (10- to 17-year-olds), the rates for individual counties were highly variable. [Figure 8-4.]. During 1997, among counties with ten or more attempts, the three highest rates were reported from Douglas (396.1), Marion (335.5) and Klamath (333.9) counties. In five counties no attempts were reported; all were east of the Cascade Range and had small populations.

[Table 8-4]. Some counties with larger populations reported few attempts, suggesting that not all hospitals are complying with the law, or that adolescent attempters in rural areas may be treated in clinics or doctors' offices (in which case attempt reporting is not required). Table 8-20 lists the number of reports by hospital since reporting became mandatory in 1988. The report *Suicidal Behavior: A Survey of Oregon High School Students, 1997*, lists suicide death rates by county.

### **PLACE OF ATTEMPT**

Most (83%) of the attempts were made in the adolescent's own home while 5.8 percent were made in another's home. [Table 8-5]. Schools were the site of just 2.7 percent of the attempts; all but two of the attempts there were by girls.

### **MONTH AND DAY OF ATTEMPT**

As in past years, the summer school vacation months continued to be the season of lowest risk. Eighteen percent of the suicide attempts occurred from June through August, but departing from the usual pattern of increased suicidal behavior during the spring months, attempts were most common during the fall (29%). By day of the week, suicide attempts occurred least often on Saturdays (10% of all attempts) and most often on Mondays (18%).

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***Suicide attempts were made most often on Mondays.***

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### **REPEAT ATTEMPTS**

Almost half (45%) of all attempts were by adolescents who were reported to have made prior attempts during the previous five years. Girls were more likely to have made prior attempts; 47 percent had done so compared to 39 percent of boys. [Table 8-6]. Because a single adolescent may make multiple attempts during any one year, it should be remembered that references to the number or proportion of attempters with a given characteristic may be influenced by repeated attempts of a single individual.

### **METHOD**

Adolescents used many methods in their attempts, but ingestion of drugs accounted for the vast majority (71%). Two-fifths (43%) of the 522 drug-related cases involved analgesics; aspirin and acetaminophen were most commonly used. (The latter is of particular concern because many adolescents are unaware of its potential long-term toxic effects and lethality.) Most of the other attempts involving drugs (179) were with combinations of drugs or of drugs with alcohol. Cutting and piercing injuries were the second most common method of attempt, accounting for 13 percent of the cases; nearly all of

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***Seven of every ten attempts were made with drugs.***

***Six of every ten suicides were committed with guns.***

---

these were lacerations of the wrists. The third single most common method was suffocation and hanging (3.8%). The category "other" in Table 8-7 includes mostly attempts by multiple methods; the majority involved poisoning, usually with drugs, combined with laceration of the wrists. Uncommon methods, such as swallowing glass fragments, are also included here.

The method chosen varied with the sex of the attempter. [Table. 8-7]. Three-quarters (77%) of the attempts by girls involved drugs compared to one-half (49%) of those by boys. [Figure 8-5]. Boys were more likely than girls to inflict cutting/piercing injuries, 23.2 percent compared to 9.9 percent. Boys were also more likely than girls to choose "other" methods, 11.9 percent versus 5.0 percent.

As with gender, the method varied with the age of the attempter. Preteens were more likely than older youth to attempt to suffocate/hang themselves while poisoning with drugs increased marginally with age.

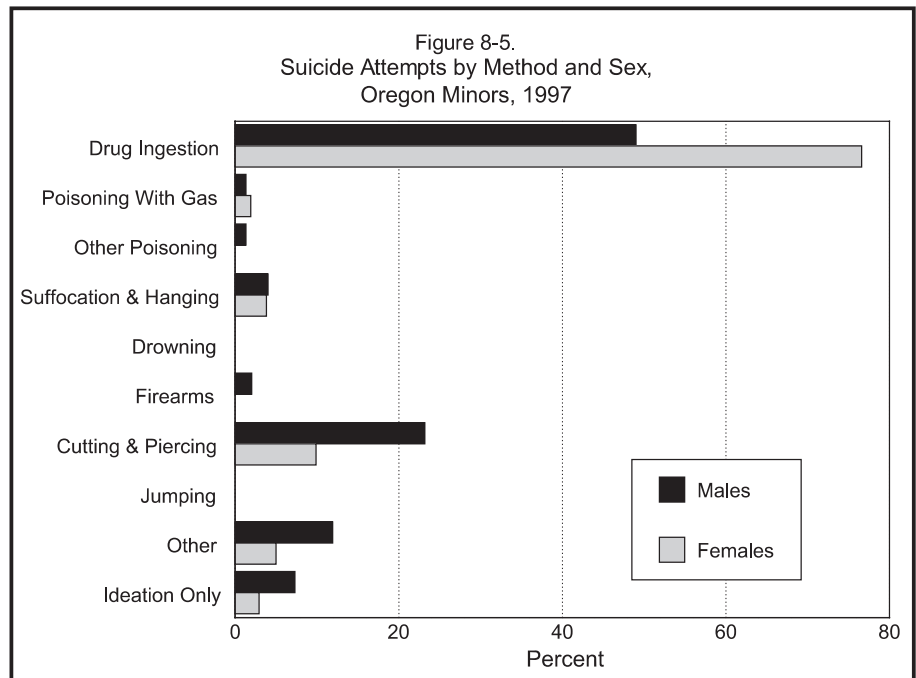
Regionally, adolescents living in the tri-county area were most apt to use poisons in their attempts while attempters living elsewhere in western Oregon were more likely than others to attempt to suffocate/hang themselves. Youth living east of the Cascade Range were more likely to choose cutting/piercing as their method of attempt than were other Oregon youth. [Table 8-9].

Adolescents making their first attempt were more likely to ingest drugs compared to those making a repeat attempt, 79

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**Percentage of attempts with guns that were fatal: 87**

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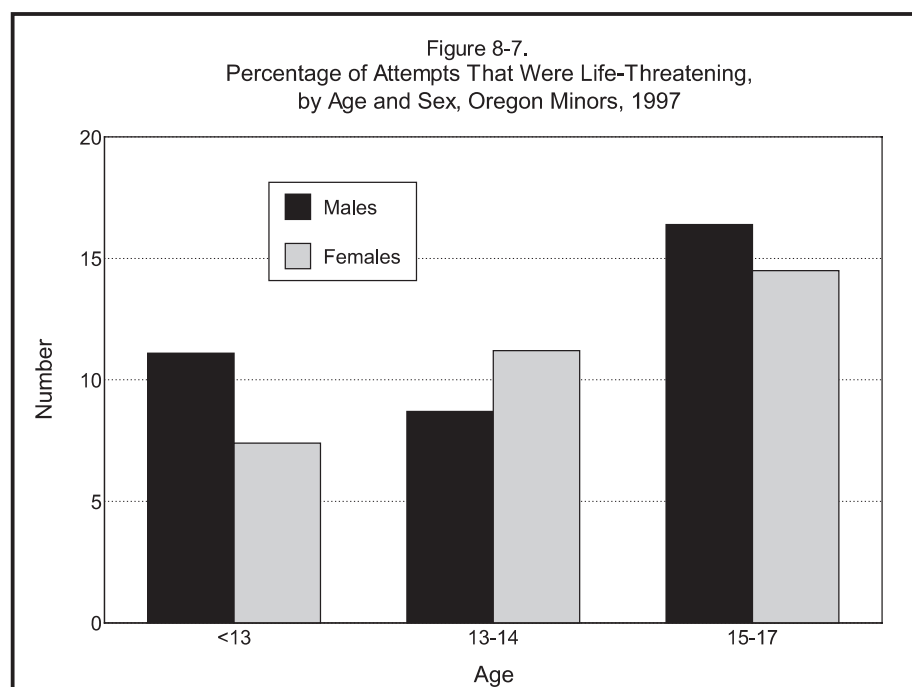
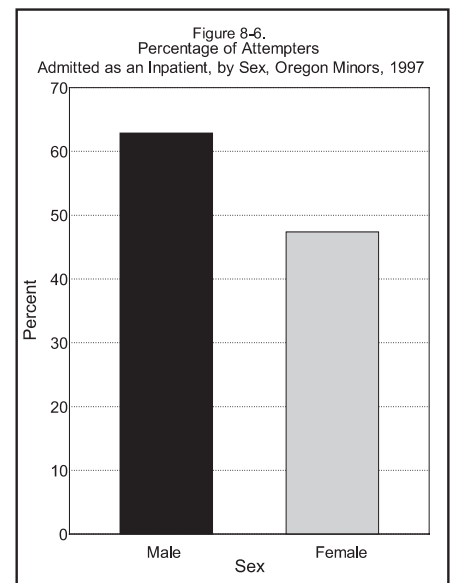
percent compared to 62 percent. [Table 8-10]. Suffocation and hanging, a more lethal method, was used nine times as often by repeat attempters than by those making their initial attempt (8.9% vs. 1.0%).

Although most attempts involved ingestion of drugs, they only infrequently resulted in death. Conversely, the highest proportion of attempts made by adolescents that resulted in death involved firearms. During 1997, 65 percent of all completed suicides by Oregonians teenaged or younger were committed with guns (most were handguns). Only three attempts with a firearm did not result in death. For a discussion of the lethality of attempt methods, see *Suicidal Behavior: A Survey of Oregon High School Students, 1997*.

**PATIENT STATUS**

One-half of reported attempts (51%) were of such seriousness that the attempter was hospitalized; this figure includes attempters who were transferred to another institution for specialized care. [Table 8-11]. Males were more likely to be admitted as in-patients, 63 percent compared to 47 percent of females. Three-fourths of the in-patients had inflicted injuries that were definitely or possibly life-threatening.

Certain methods were more likely than others to result in hospitalization. Of the categories with at least ten events, attempts involving hanging/suffocation and cutting/piercing both resulted in 57 percent of the attempters requiring inpatient care. [Table 8-12]. By comparison, 39 percent of the attempts involving poisoning with solids or liquids led to



hospitalization. Almost six in ten (55%) of the "other" cases required hospitalization. These most often involved poisoning in combination with lacerations. Also included in this category are other potentially lethal methods such as running in front of traffic. Most adolescents who attempted suicide with a gun died before reaching a hospital.

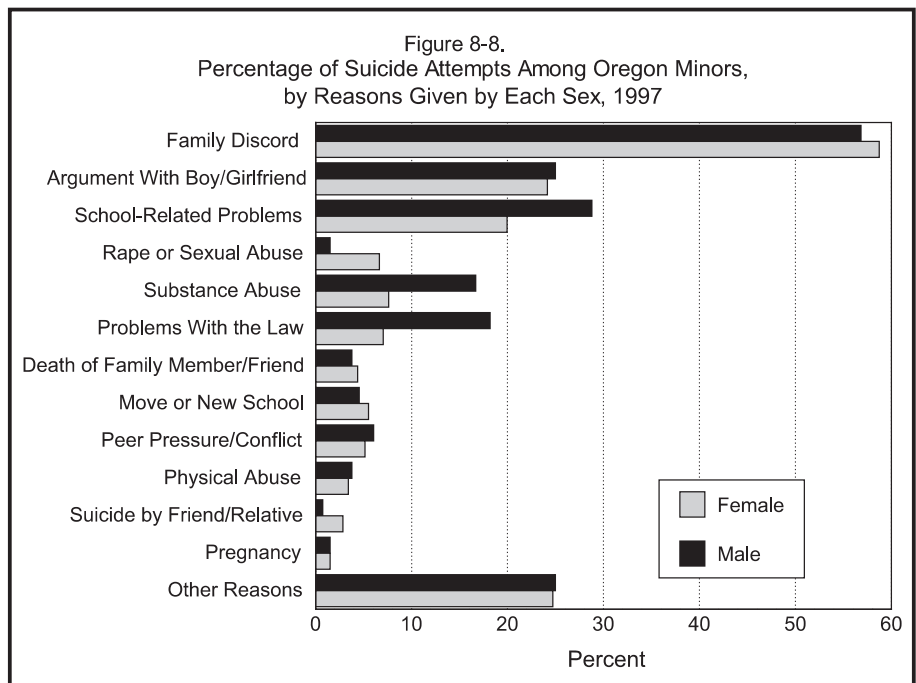
**Over one-half of all attempts were potentially life-threatening.**

**SEVERITY OF INJURIES**

One in seven (14%) of the attempts were definitely life-threatening; another 41 percent were possibly life-threatening. Attempts by boys, especially preteens, were more often definitely/probably life-threatening; 72 percent of their injuries were potentially fatal compared to 33 percent of similarly-aged females. [Table 8-13]. Some attempt methods were clearly riskier than others. Among those attempters who survived long enough to receive hospital care, "other" attempts proved most dangerous (among the methods with at least 10 attempts); most of these involved both lacerations and poisoning. However, most fatal attempts were made with guns and death occurred before the adolescent could be transported to the hospital. Poisonings with solids/liquids were least likely to be life-threatening. [Table 8-14].

**SUICIDAL INTENT**

Not all suicide attempts were made with death as a goal. Some may have been made with a desire to resolve a difficult conflict, indicate an intolerable living situation, or elicit sympathy or guilt.



Health care providers were uncertain about the attempter's intent in half the cases, so the figures reported here may understate the proportion of adolescents whose goal was death. The true figure may lie between the reported 18 percent and an adjusted figure of 36 percent (assuming the intent of all attempters was equivalent to those with a stated intent -- an assumption of unknown validity). The following discussion is based on all reported attempters, so the figures represent the minimum number of adolescents who sought death through suicide.

Although males outnumbered females in the number of successful attempts, health care providers reported little difference by gender in the proportion who were believed to have had death as a goal: males were more apt to use lethal methods. [Table 8-15].

Among the methods with at least 10 attempts, attempters who used "other" methods were most likely to have had death as a goal. [Table 8-16] Those attempters inflicting cutting injuries were least likely to have tried to kill themselves. Some adolescents misjudged the potential lethality of the method they used; one-quarter of those who did not attempt to kill themselves made attempts that possibly or certainly put their lives at risk while 6.1 percent of attempters whose goal was death did not use life-threatening means.

The number of previous attempts was linked to the adolescents' intent; while 17 percent of those who had not made a prior attempt sought death, 21 percent of those who had made prior attempts did so.

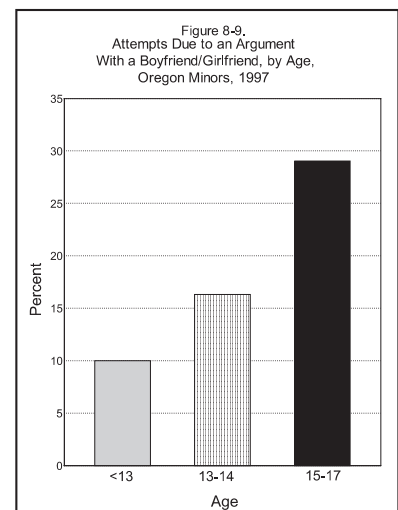
Attempters who reportedly tried to kill themselves were most likely to be admitted as inpatients: 71 percent compared to 46 percent of suicide ideators and 25 percent of those who did not attempt to kill themselves. (Suicide ideation is the expression of suicidal thought; no actual attempt is made.)

**RECENT PERSONAL EVENTS**

A suicide attempt may be triggered by a variety of personal crises. The report form allows one or more events leading to the attempt to be recorded.

Lack of social supports is a common thread among adolescents who attempt suicide, especially those who cite multiple reasons. One 14 year old girl reported being raped, breaking up with her boyfriend, living amidst family discord, and having a mother who was a prostitute. Fewer than one in three of all attempters lived with both natural parents. The most commonly reported reasons follow in order of frequency:

**Family discord** was the most common cause of attempted suicide. Nearly six in ten (58%) of Oregon minors said this



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***Half of all  
attempters who  
reported sexual  
abuse/rape had  
made previous  
attempts.***

---

prompted their attempts. [Table 8-17]. It was mentioned most often by preteens. Children attempting suicide who lived with a parent and stepparent were more likely to report family discord than those living with both natural parents, 75 percent compared to 51 percent. Family discord was mentioned by 87 percent of African-Americans, and 75 percent of Hispanics, the highest proportions by race; 58 percent of whites said discord was a cause.

**An argument or breakup with a boyfriend or girlfriend** was the second leading cause (24%). Older attempters were far more likely to give this as a reason than were their younger counterparts, but there was relatively little difference by gender. [Figure 8-9]. Asian and Pacific Islander youth were nearly twice as likely to inflict self-harm for this reason than were other racial/ethnic groups (46 percent vs. 24 percent).

**School-related problems** (e.g., performance, truancy) were cited by one in five (22%) attempters. Boys were almost half again as likely to report school-related problems than were girls, 29 percent compared to 20 percent. The second most common reason for an attempt among preteens, the importance of this factor diminished with increasing age. Tri-county youth mentioned this almost twice as often as others in western Oregon. Not surprisingly, school-related problems were least frequently reported during June through August.

**Substance abuse** was linked to 9.4 percent of the attempts and it was listed over twice as often by males as by females (16.7% vs. 7.6%). Two-thirds of the youth attempting suicide for this reason inflicted injuries that were definitely or possibly life-threatening, the highest proportion among the reasons discussed here. Sixty-nine percent of attempters mentioning substance abuse were treated as in-patients, the second highest proportion by reason. Only attempters citing physical abuse were more likely to have made prior attempts (45% vs. 44%). Substance abuse was most common (by living situation) among attempters who were homeless (40%) or lived with friends (20%); just 4.7 percent of attempters living with both natural parents reported substance abuse. Barbiturates, alcohol, and marijuana were most often mentioned. Attempters living in the Portland tri-county area were more likely to mention substance abuse than were those living elsewhere in Oregon, 9.6 percent versus 6.4 percent.

**Encounters with the legal system** were mentioned by 9.3 percent of the attempters. Shoplifting was most common, but also reported were assaults on parents and grandparents, prostitution, and hit and run. Males were twice as likely to attempt suicide for this reason, as were youth living east of the Cascades (compared to tri-county youth). This attempt reason

was least often associated with injuries that were definitely life-threatening.

**Sexual abuse or rape** was cited by 5.6 percent of the attempters, and was reported more than three times as often by females than males, 6.7 percent versus 1.5 percent. Fifty-one percent of attempters reporting sexual abuse or rape had made previous attempts, the second highest proportion among the reasons. Seventy-three percent were admitted as inpatients, again the second highest proportion by a reason. Most often, the rape or sexual abuse was reportedly committed by fathers and step-fathers. However, also included in this category are two attempts by girls who were trying to become pregnant with older men (who were subsequently charged with statutory rape). The youngest was a 13-year-old involved with a 35 year old man.

**A move or attendance at a new school** was cited by 5.3 percent of the attempters, with females somewhat more likely to do so than males, 5.5 percent versus 4.5 percent. Preteens were twice as likely as teens to report this as the cause of their attempt.

**Peer pressure or conflict** was identified as a the cause by 5.3 percent of attempters, and was cited more often by males and preteens. Peer pressure was more common among youth living east of the Cascades (8.5%) than those west of the Cascades (3.8%).

**The death of a family member or friend** prompted 4.3 percent of the attempts. Females were a little more likely to state that this was a reason for their attempt. Although just 19 of youth who cited death of a family member or friend had made a previous attempt (the lowest proportion by reason), these attempters were most likely to be admitted to a hospital as an inpatient (75%).

**Physical abuse** was reported in 3.5 percent of the attempts. Preteens gave this as a reason six to seven times more often than older attempters. Physically abused children were most likely to have made repeated attempts (45% vs. 29% making attempts for other reasons), and also more likely to be admitted as in-patients (70% versus 45% for all other reasons). [Table 8-19].

**A suicide or attempted suicide by a family member or friend** prompted 2.4 percent of the attempts. Female attempters reported this as a reason more often than males. Youth who attempted suicide because a friend or family member had done so were also most likely to have inflicted injuries that were definitely life-threatening. [Table 8-18].

**Concern about pregnancy** prompted 1.5 percent of the attempts. With the exception of two males who were the

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***Suicide by a friend/  
relative, substance  
abuse, and peer  
pressure were most  
often associated  
with injuries which  
were definitely  
life-threatening.***

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partners of pregnant females, all of the attempters were female and all but one were 13 or older.

**Same-sex sexual orientation** is generally accepted as a related underlying cause of teen suicide. The issue is difficult to study under the current reporting system because of a lack of comparison data. Moreover, even if information on sexual orientation were requested on the reporting form, its validity would be highly questionable; many teens would be unlikely to respond truthfully, if at all. Nevertheless, the risk is one that health care providers must consider.

**Other** reasons given included: gang involvement, parental drug abuse, employment problems, abandonment, illness of family members or self, and eviction. The likelihood that a youth sought death was highest among attempters who gave multiple reasons, particularly those who cited four or more reasons.

## **CONCLUSIONS**

Although the teen suicide rate is not as high as the rates for most older Oregonians, it is substantially higher than it was several decades ago. Health care professionals, parents, teachers, law enforcement officials and others need to be aware that the changing social milieu has prompted more adolescents to consider suicide as an option than did so a generation ago. Without intervention, a failed suicide attempt may be followed by an attempt that results in death.



**TABLE 8-1.**  
**Number of Suicides Among Oregon Teens and Preteens**  
**by Age and Sex, 1987-1997**

Year and Sex	Age												
	10-19	10-17	15-19	10	11	12	13	14	15	16	17	18	19
<b>1987 Total</b>	23	9	22	-	-	-	-	1	3	3	2	10	4
Male	19	6	18	-	-	-	-	1	2	2	1	9	4
Female	4	3	4	-	-	-	-	-	1	1	1	1	-
<b>1988 Total</b>	35	16	32	-	-	2	-	1	1	3	9	9	10
Male	28	12	25	-	-	2	-	1	1	2	6	7	9
Female	7	4	7	-	-	-	-	-	-	1	3	2	1
<b>1989 Total</b>	26	16	22	-	-	1	1	2	2	3	7	3	7
Male	21	13	17	-	-	1	1	2	2	3	4	2	6
Female	5	3	5	-	-	-	-	-	-	-	3	1	1
<b>1990 Total</b>	*40	24	32	*1	-	-	2	5	3	6	7	6	10
Male	*29	14	25	*1	-	-	-	3	3	2	5	6	9
Female	11	10	7	-	-	-	2	2	-	4	2	-	1
<b>1991 Total</b>	41	21	37	-	1	1	-	2	3	8	6	10	10
Male	31	14	29	-	1	1	-	-	2	6	4	7	10
Female	10	7	8	-	-	-	-	2	1	2	2	3	-
<b>1992 Total</b>	40	25	34	-	1	1	1	3	6	7	6	7	8
Male	34	21	31	-	1	-	1	1	6	6	6	6	7
Female	6	4	3	-	-	1	-	2	-	1	-	1	1
<b>1993 Total</b>	33	24	24	-	1	-	4	4	1	5	9	3	6
Male	30	23	22	-	1	-	3	4	1	5	9	3	4
Female	3	1	2	-	-	-	1	-	-	-	-	-	2
<b>1994 Total</b>	37	21	31	-	-	-	3	3	1	6	8	8	8
Male	24	11	22	-	-	-	2	-	-	2	7	6	7
Female	13	10	9	-	-	-	1	3	1	4	1	2	1
<b>1995 Total</b>	43	27	38	-	-	1	1	3	8	2	12	8	8
Male	35	22	32	-	-	1	1	1	6	2	11	8	5
Female	8	5	6	-	-	-	-	2	2	-	1	-	3
<b>1996 Total</b>	38	23	28	2	1	1	1	5	3	7	3	5	10
Male	31	18	22	2	1	1	-	5	3	6	-	5	8
Female	7	5	6	-	-	-	1	-	-	1	3	-	2
<b>1997 Total</b>	31	18	24	-	-	2	1	4	2	3	6	7	6
Male	21	10	17	-	-	1	1	2	-	1	5	6	5
Female	10	8	7	-	-	1	-	2	2	2	1	1	1

**TABLE 8-2.**  
**Suicide Attempts by Sex and Age, Oregon Minors, 1997**

Sex	Total	Age		
		<=12	13-14	15-17
<b>Total</b>	736	45	202	489
Male	151	18	23	110
Female	585	27	179	379
<i>Row Percent</i>				
Total	100.0	6.1	27.4	66.4
Male	100.0	11.9	15.2	72.8
Female	100.0	4.6	30.6	64.8
<i>Column Percent</i>				
Total	100.0	100.0	100.0	100.0
Male	20.5	40.0	11.4	22.5
Female	79.5	60.0	88.6	77.5

**TABLE 8-3.**  
**Suicide Attempts by Age and Living Situation,**  
**Oregon Minors, 1997**

Household Situation	Total	Age		
		<=12	13-14	15-17
Total	682	41	185	456
Both Parents	222	14	54	154
Father Only	22	3	8	11
Mother Only	192	11	60	121
Parent & Stepparent	108	7	33	68
Other Relatives	35	3	5	27
Friends	23	-	3	20
Foster Parents, SCF, etc.	61	3	18	40
Homeless	4	-	-	4
Other	15	-	4	11
<i>Row Percent</i>				
Total	100.0	6.0	27.1	66.9
Both Parents	100.0	6.3	24.3	69.4
Father Only	100.0	13.6	36.4	50.0
Mother Only	100.0	5.7	31.3	63.0
Parent & Stepparent	100.0	6.5	30.6	63.0
Other Relatives	100.0	8.6	14.3	77.1
Friends	100.0	-	13.0	87.0
Foster Parents, SCF, etc.	100.0	4.9	29.5	65.6
Homeless	100.0	-	-	100.0
Other	100.0	-	26.7	73.3
<i>Column Percent</i>				
Total	100.0	100.0	100.0	100.0
Both Parents	32.6	34.1	29.2	33.8
Father Only	3.2	7.3	4.3	2.4
Mother Only	28.2	26.8	32.4	26.5
Parent & Stepparent	15.8	17.1	17.8	14.9
Other Relatives	5.1	7.3	2.7	5.9
Friends	3.4	-	1.6	4.4
Foster Parents, SCF, etc.	8.9	7.3	9.7	8.8
Homeless	0.6	-	-	0.9
Other	2.2	-	2.2	2.4

SCF: Services to Children and Families (formerly known as Children's Services Division).

NOTE: Total excludes cases with missing and unknown values for the variables shown. Percentages are calculated excluding missing and unknown values (54).

**TABLE 8-4.**  
**Suicide Attempts by Sex, Age, and County of Residence,**  
**Oregon Minors, 1997**

County of Residence	Total	Attempt Rate	Age					
			<=12		13-14		15-17	
			M	F	M	F	M	F
<b>Total</b>	736	202.4	18	27	23	179	110	379
Baker	5	242.0	-	-	-	2	-	3
Benton	17	223.9	2	-	1	2	4	8
Clackamas	47	125.0	1	3	1	14	6	22
Clatsop	12	296.1	-	1	-	1	1	9
Columbia	6	114.8	1	-	1	-	-	4
Coos	12	169.3	-	-	-	4	2	6
Crook	-	-	-	-	-	-	-	-
Curry	1	*	-	-	-	-	-	1
Deschutes	21	181.5	-	-	1	6	6	8
Douglas	46	396.1	-	-	3	10	8	25
Gilliam	-	-	-	-	-	-	-	-
Grant	5	499.5	-	-	-	1	3	1
Harney	-	-	-	-	-	-	-	-
Hood River	6	270.3	-	-	-	2	-	4
Jackson	23	121.6	3	1	-	1	3	15
Jefferson	5	229.7	-	1	-	2	-	2
Josephine	23	287.1	1	2	-	5	6	9
Klamath	24	333.9	1	3	-	10	2	8
Lake	4	*	-	-	-	2	2	-
Lane	94	278.7	2	1	2	21	10	58
Lincoln	10	214.0	-	-	-	3	2	5
Linn	24	202.4	-	2	2	6	3	11
Malheur	2	*	-	-	-	-	-	2
Marion	103	335.5	1	4	-	26	17	55
Morrow	1	*	-	-	-	-	-	1
Multnomah	111	167.0	2	4	5	29	18	53
Polk	9	131.0	-	-	-	3	3	3
Sherman	-	-	-	-	-	-	-	-
Tillamook	2	*	-	-	-	1	-	1
Umatilla	13	163.8	-	-	-	2	5	6
Union	4	*	-	-	-	1	-	3
Wallowa	2	*	-	-	-	1	-	1
Wasco	2	*	-	-	-	2	-	-
Washington	72	162.2	3	4	6	18	5	36
Wheeler	-	-	-	-	-	-	-	-
Yamhill	30	298.2	1	1	1	4	4	19

NOTE: Rates are per 100,000 10- to 17-year-olds.

WARNING: Rates based on fewer than 5 events may be unreliable.

**TABLE 8-5.**  
**Suicide Attempts by Sex and Place of Attempt,**  
**Oregon Minors, 1997**

Sex	Total	Place of Attempt							
		Private Home		School	Jail	Other Institution	Public Place	Foster Home	Other
		Own	Other						
<b>Total</b>	676	558	39	18	-	35	9	1	16
Male	140	116	6	2	-	8	3	1	4
Female	536	442	33	16	-	27	6	-	12
<i>Row Percent</i>									
Total	100.0	82.5	5.8	2.7	-	5.2	1.3	0.1	2.4
Male	100.0	82.9	20.8	1.4	-	5.7	2.1	0.7	2.9
Female	100.0	82.5	79.2	3.0	-	5.0	1.1	-	2.2
<i>Column Percent</i>									
Total	100.0	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0
Male	20.7	20.8	15.4	11.1	-	22.9	33.3	100.0	25.0
Female	79.3	79.2	84.6	88.9	-	77.1	66.7	-	75.0

NOTE: Total excludes cases with missing and unknown values for the variables shown. Percentages are calculated excluding missing and unknown values (60).

**TABLE 8-6.**  
**Prior Suicide Attempts by Current Attempters During the Previous**  
**Five Years, by Sex and Number of Attempts, Oregon Minors, 1997**

Sex	Total	Previous Attempts						Yes But # Unk.
		0	1	2	3	4+		
<b>Total</b>	568	310	114	20	16	19	89	
Male	109	66	15	-	2	2	24	
Female	459	244	99	20	14	17	65	
<i>Row Percent</i>								
Total	100.0	54.6	20.1	3.5	2.8	3.3	15.7	
Male	100.0	60.6	13.8	-	1.8	1.8	22.0	
Female	100.0	53.2	21.6	4.4	3.1	3.7	14.2	
<i>Column Percent</i>								
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Male	19.2	21.3	13.2	-	12.5	10.5	27.0	
Female	80.8	78.7	86.8	100.0	87.5	89.5	73.0	

NOTE: Total excludes cases with missing and unknown values for the variables shown. Percentages are calculated excluding missing and unknown values (168).

**TABLE 8-7.**  
**Suicide Attempts by Method and Sex, Oregon**  
**Minors, 1997**

Method of Attempt	Total	Sex	
		Male	Female
<b>Total</b>	736	151	585
Poisoning, Drugs	522	74	448
Poisoning, Solids & Liquids	13	2	11
Poisoning, Gas	2	2	-
Suffocation & Hanging	28	6	22
Drowning	-	-	-
Firearms	3	3	-
Cutting & Piercing	93	35	58
Jumping from a High Place	-	-	-
Other	47	18	29
Ideation Only	28	11	17
<i>Row Percent</i>			
Total	100.0	20.5	79.5
Poisoning, Drugs	100.0	14.2	85.8
Poisoning, Solids & Liquids	100.0	15.4	84.6
Poisoning, Gas	100.0	100.0	-
Suffocation & Hanging	100.0	21.4	78.6
Drowning	-	-	-
Firearms	100.0	100.0	-
Cutting & Piercing	100.0	37.6	62.4
Jumping from a High Place	-	-	-
Other	100.0	38.3	61.7
Ideation Only	100.0	39.3	60.7
<i>Column Percent</i>			
Total	100.0	100.0	100.0
Poisoning, Drugs	70.9	49.0	76.6
Poisoning, Solids & Liquids	1.8	1.3	1.9
Poisoning, Gas	0.3	1.3	-
Suffocation & Hanging	3.8	4.0	3.8
Drowning	-	-	-
Firearms	0.4	2.0	-
Cutting & Piercing	12.6	23.2	9.9
Jumping from a High Place	-	-	-
Other	6.4	11.9	5.0
Ideation Only	3.8	7.3	2.9

**TABLE 8-8.**  
**Suicide Attempts by Method and Age,**  
**Oregon Minors, 1997**

Method of Attempt	Total	Age		
		<=12	13-14	15-17
<b>Total</b>	736	45	202	489
Poisoning, Drugs	522	30	142	350
Poisoning, Solids & Liquids	13	-	4	9
Poisoning, Gas	2	-	-	2
Suffocation & Hanging	28	5	5	18
Drowning	-	-	-	-
Firearms	3	-	-	3
Cutting & Piercing	93	6	31	56
Jumping from a High Place	-	-	-	-
Other	47	3	16	28
Ideation Only	28	1	4	23
<i>Row Percent</i>				
Total	100.0	6.1	27.4	66.4
Poisoning, Drugs	100.0	5.7	27.2	67.0
Poisoning, Solids & Liquids	100.0	-	30.8	69.2
Poisoning, Gas	100.0	-	-	100.0
Suffocation & Hanging	100.0	17.9	17.9	64.3
Drowning	-	-	-	-
Firearms	100.0	-	-	100.0
Cutting & Piercing	100.0	6.5	33.3	60.2
Jumping from a High Place	-	-	-	-
Other	100.0	6.4	34.0	59.6
Ideation Only	100.0	3.6	14.3	82.1
<i>Column Percent</i>				
Total	100.0	100.0	100.0	100.0
Poisoning, Drugs	70.9	66.7	70.3	71.6
Poisoning, Solids & Liquids	1.8	-	2.0	1.8
Poisoning, Gas	0.3	-	-	0.4
Suffocation & Hanging	3.8	11.1	2.5	3.7
Drowning	-	-	-	-
Firearms	0.4	-	-	0.6
Cutting & Piercing	12.6	13.3	15.3	11.5
Jumping from a High Place	-	-	-	-
Other	6.4	6.7	7.9	5.7
Ideation Only	3.8	2.2	2.0	4.7

**TABLE 8-9.**  
**Suicide Attempts by Method and Region of Attempt, Oregon Minors, 1997**

Method of Attempt	Total	Region		
		Tri-County*	Western Oregon**	Eastern Oregon
<b>Total</b>	736	230	412	94
Poisoning, Drugs	522	172	281	69
Poisoning, Solids & Liquids	13	3	10	-
Poisoning, Gas	2	-	2	-
Suffocation & Hanging	28	4	23	1
Drowning	-	-	-	-
Firearms	3	1	2	-
Cutting & Piercing	93	34	44	15
Jumping from a High Place	-	-	-	-
Other	47	15	26	6
Ideation Only	28	1	24	3
<i>Row Percent</i>				
Total	100.0	31.3	56.0	12.8
Poisoning, Drugs	100.0	33.0	53.8	13.2
Poisoning, Solids & Liquids	100.0	23.1	76.9	-
Poisoning, Gas	100.0	-	100.0	-
Suffocation & Hanging	100.0	14.3	82.1	3.6
Drowning	-	-	-	-
Firearms	100.0	33.3	66.7	-
Cutting & Piercing	100.0	36.6	47.3	16.1
Jumping from a High Place	-	-	-	-
Other	100.0	31.9	55.3	12.8
Ideation Only	100.0	3.6	85.7	10.7
<i>Column Percent</i>				
Total	100.0	100.0	100.0	100.0
Poisoning, Drugs	70.9	74.8	68.2	73.4
Poisoning, Solids & Liquids	1.8	1.3	2.4	-
Poisoning, Gas	0.3	-	0.5	-
Suffocation & Hanging	3.8	1.7	5.6	1.1
Drowning	-	-	-	-
Firearms	0.4	0.4	0.5	-
Cutting & Piercing	12.6	14.8	10.7	16.0
Jumping from a High Place	-	-	-	-
Other	6.4	6.5	6.3	6.4
Ideation Only	3.8	0.4	5.8	3.2

\* Clackamas, Multnomah and Washington.

\*\* Western counties excluding Clackamas, Multnomah and Washington.

**TABLE 8-10.  
SUICIDE ATTEMPTS BY METHOD AND ATTEMPTS DURING THE  
PREVIOUS FIVE YEARS, OREGON MINORS, 1996**

METHOD OF ATTEMPT	TOTAL	PREVIOUS ATTEMPTS		
		NO PREVIOUS ATTEMPTS	PREVIOUS ATTEMPTS	NOT STATED
<b>TOTAL</b>	778	357	224	197
POISONING, DRUGS	604	295	162	147
POISONING, SOLIDS & LIQUIDS	14	5	4	5
POISONING, GAS	1	1	-	-
SUFFOCATION & HANGING	39	11	23	5
DROWNING	-	-	-	-
FIREARMS	1	1	-	-
CUTTING & PIERCING	59	20	14	25
JUMPING FROM A HIGH PLACE	-	-	-	-
OTHER	39	17	12	10
IDEATION ONLY	21	7	9	5
<i>ROW PERCENT</i>				
TOTAL	100.0	45.9	28.8	25.3
POISONING, DRUGS	100.0	48.8	26.8	24.3
POISONING, SOLIDS & LIQUIDS	100.0	35.7	28.6	35.7
POISONING, GAS	100.0	100.0	-	-
SUFFOCATION & HANGING	100.0	28.2	59.0	12.8
DROWNING	-	-	-	-
FIREARMS	100.0	100.0	-	-
CUTTING & PIERCING	100.0	33.9	23.7	42.4
JUMPING FROM A HIGH PLACE	-	-	-	-
OTHER	100.0	43.6	30.8	25.6
IDEATION ONLY	100.0	33.3	42.9	23.8
<i>COLUMN PERCENT</i>				
TOTAL	100.0	100.0	100.0	100.0
POISONING, DRUGS	77.6	82.6	72.3	74.6
POISONING, SOLIDS & LIQUIDS	1.8	1.4	1.8	2.5
POISONING, GAS	.1	.3	-	-
SUFFOCATION & HANGING	5.0	3.1	10.3	2.5
DROWNING	-	-	-	-
FIREARMS	.1	.3	-	-
CUTTING & PIERCING	7.6	5.6	6.3	12.7
JUMPING FROM A HIGH PLACE	-	-	-	-
OTHER	5.0	4.8	5.4	5.1
IDEATION ONLY	2.7	2.0	4.0	2.5

NOTE: Percentages are calculated with the exclusion of missing and unknown values.

**TABLE 8-11.**  
**Suicide Attempts by Sex and Subsequent\***  
**Patient Status, Oregon Minors, 1997**

Sex	Total	Patient Status	
		Admitted as an Inpatient	Out-Patient
<b>Total</b>	736	372	364
Male	151	95	56
Female	585	277	308
<i>Row Percent</i>			
Total	100.0	50.5	49.5
Male	100.0	62.9	37.1
Female	100.0	47.4	52.6
<i>Column Percent</i>			
Total	100.0	100.0	100.0
Male	20.5	25.5	15.4
Female	79.5	74.5	84.6

\* No attempts were made by adolescents who were inpatients at the time of their attempt.

**TABLE 8-12.**  
**Suicide Attempts by Method and Subsequent**  
**Patient Status, Oregon Minors, 1997**

Method of Attempt	Total	Patient Status	
		Admitted as an Inpatient	Out-Patient
<b>Total</b>	736	372	364
Poisoning, Drugs	522	254	268
Poisoning, Solids & Liquids	13	5	8
Poisoning, Gas	2	2	-
Suffocation & Hanging	28	16	12
Drowning	-	-	-
Firearms	3	3	-
Cutting & Piercing	93	53	40
Jumping from a High Place	-	-	-
Other	47	26	21
Ideation Only	28	13	15
<i>Row Percent</i>			
Total	100.0	50.5	49.5
Poisoning, Drugs	100.0	48.7	51.3
Poisoning, Solids & Liquids	100.0	38.5	61.5
Poisoning, Gas	100.0	100.0	-
Suffocation & Hanging	100.0	57.1	42.9
Drowning	-	-	-
Firearms	100.0	100.0	-
Cutting & Piercing	100.0	57.0	43.0
Jumping from a High Place	-	-	-
Other	100.0	55.3	44.7
Ideation Only	100.0	46.4	53.6
<i>Column Percent</i>			
Total	100.0	100.0	100.0
Poisoning, Drugs	70.9	68.3	73.6
Poisoning, Solids & Liquids	1.8	1.3	2.2
Poisoning, Gas	0.3	0.5	-
Suffocation & Hanging	3.8	4.3	3.3
Drowning	-	-	-
Firearms	0.4	0.8	-
Cutting & Piercing	12.6	14.2	11.0
Jumping from a High Place	-	-	-
Other	6.4	7.0	5.8
Ideation Only	3.8	3.5	4.1

NOTE: No attempts were made by adolescents who were inpatients at the time of their attempt.

**TABLE 8-13.**  
**Suicide Attempts by Attempter's Age, Sex, and**  
**Severity of Injuries, Oregon Minors, 1997**

Sex and Age	Total	Life-threatening?		
		Yes	Possibly	No
Both Sexes	727	99	299	329
<=12	45	4	18	23
13-14	200	22	89	89
15-17	482	73	192	217
Male	147	22	63	62
<=12	18	2	11	5
13-14	22	2	8	12
15-17	107	18	44	45
Female	580	77	236	267
<=12	27	2	7	18
13-14	178	20	81	77
15-17	375	55	148	172
Row Percent				
Both Sexes	100.0	13.6	41.1	45.3
<=12	100.0	8.9	40.0	51.1
13-14	100.0	11.0	44.5	44.5
15-17	100.0	15.1	39.8	45.0
Male	100.0	15.0	42.9	42.2
<=12	100.0	11.1	61.1	27.8
13-14	100.0	9.1	36.4	54.5
15-17	100.0	16.8	41.1	42.1
Female	100.0	13.3	40.7	46.0
<=12	100.0	7.4	25.9	66.7
13-14	100.0	11.2	45.5	43.3
15-17	100.0	14.7	39.5	45.9

NOTE: Total excludes cases with missing and unknown values for the variables shown. Percentages are calculated excluding missing and unknown values (9).

**TABLE 8-14.**  
**Suicide Attempts by Method and Severity of Injuries, Oregon Minors, 1997**

Method of Attempt	Total	Life-threatening?		
		Yes	Possibly	No
<b>Total</b>	727	99	299	329
Poisoning, Drugs	514	83	228	203
Poisoning, Solids & Liquids	13	-	4	9
Poisoning, Gas	2	1	1	-
Suffocation & Hanging	28	2	12	14
Drowning	-	-	-	-
Firearms	3	2	1	-
Cutting & Piercing	93	5	28	60
Jumping from a High Place	-	-	-	-
Other	46	6	25	15
Ideation only	28	-	-	28
<i>Row Percent</i>				
Total	100.0	13.6	41.1	45.3
Poisoning, Drugs	100.0	16.6	44.4	39.5
Poisoning, Solids & Liquids	100.0	-	30.8	69.2
Poisoning, Gas	100.0	50.0	50.0	-
Suffocation & Hanging	100.0	7.1	42.9	50.0
Drowning	-	-	-	-
Firearms	100.0	66.7	33.3	-
Cutting & Piercing	100.0	5.4	30.1	64.5
Jumping from a High Place	-	-	-	-
Other	100.0	13.0	54.3	32.6
Ideation only	100.0	-	-	100.0
<i>Column Percent</i>				
Total	100.0	100.0	100.0	100.0
Poisoning, Drugs	70.7	83.8	76.3	61.7
Poisoning, Solids & Liquids	1.8	-	1.3	2.7
Poisoning, Gas	0.3	1.0	0.3	-
Suffocation & Hanging	3.9	2.0	4.0	4.3
Drowning	-	-	-	-
Firearms	0.4	2.0	0.3	-
Cutting & Piercing	12.8	5.1	9.4	18.2
Jumping from a High Place	-	-	-	-
Other	6.3	6.1	8.4	4.6
Ideation only	3.9	-	-	8.5

NOTE: Total excludes cases with missing and unknown values for the variables shown. Percentages are calculated excluding missing and unknown values (9).

**TABLE 8-15.**  
**Suicide Attempts by Sex, Age, and Intent of Attempter, Oregon Minors, 1997**

Sex and Age	Total	Tried to Kill Themselves?			
		Yes	No	Ideation	Uncertain
Both Sexes	736	133	211	28	364
<=12	45	9	15	1	20
13-14	202	27	50	4	121
15-17	489	97	146	23	223
Male	151	27	39	11	74
<=12	18	6	2	1	9
13-14	23	2	7	2	12
15-17	110	19	30	8	53
Female	585	106	172	17	290
<=12	27	3	13	-	11
13-14	179	25	43	2	109
15-17	379	78	116	15	170
Row Percent					
BOTH SEXES	100.0	18.1	28.7	3.8	49.5
<=12	100.0	20.0	33.3	2.2	44.4
13-14	100.0	13.4	24.8	2.0	59.9
15-17	100.0	19.8	29.9	4.7	45.6
MALE	100.0	17.9	25.8	7.3	49.0
<=12	100.0	33.3	11.1	5.6	50.0
13-14	100.0	8.7	30.4	8.7	52.2
15-17	100.0	17.3	27.3	7.3	48.2
FEMALE	100.0	18.1	29.4	2.9	49.6
<=12	100.0	11.1	48.1	-	40.7
13-14	100.0	14.0	24.0	1.1	60.9
15-17	100.0	20.6	30.6	4.0	44.9

**TABLE 8-16.**  
**Suicide Attempts by Method and Intent of Attempter, Oregon Minors, 1997**

Method of Attempt	Total	Tried to Kill Themselves?			
		Yes	No	Ideation	Uncertain
<b>Total</b>	736	133	211	28	364
Poisoning, Drugs	522	105	153	-	264
Poisoning, Solids & Liquids	13	2	8	-	3
Poisoning, Gas	2	1	1	-	-
Suffocation & Hanging	28	5	10	-	13
Drowning	-	-	-	-	-
Firearms	3	1	-	-	2
Cutting & Piercing	93	9	30	-	54
Jumping from a High Place	-	-	-	-	-
Other	47	10	9	-	28
Ideation Only	28	-	-	28	-
<i>Row Percent</i>					
Total	100.0	18.1	28.7	3.8	49.5
Poisoning, Drugs	100.0	20.1	29.3	-	50.6
Poisoning, Solids & Liquids	100.0	15.4	61.5	-	23.1
Poisoning, Gas	100.0	50.0	50.0	-	-
Suffocation & Hanging	100.0	17.9	35.7	-	46.4
Drowning	-	-	-	-	-
Firearms	100.0	33.3	-	-	66.7
Cutting & Piercing	100.0	9.7	32.3	-	58.1
Jumping from a High Place	-	-	-	-	-
Other	100.0	21.3	19.1	-	59.6
Ideation Only	100.0	-	-	100.0	-
<i>Column Percent</i>					
Total	100.0	100.0	100.0	100.0	100.0
Poisoning, Drugs	70.9	78.9	72.5	-	72.5
Poisoning, Solids & Liquids	1.8	1.5	3.8	-	0.8
Poisoning, Gas	0.3	0.8	0.5	-	-
Suffocation & Hanging	3.8	3.8	4.7	-	3.6
Drowning	-	-	-	-	-
Firearms	0.4	0.8	-	-	0.5
Cutting & Piercing	12.6	6.8	14.2	-	14.8
Jumping from a High Place	-	-	-	-	-
Other	6.4	7.5	4.3	-	7.7
Ideation Only	3.8	-	-	100.0	-

**TABLE 8-17.**  
**Reasons Given for Suicide Attempts by Age and Sex,**  
**Oregon Minors, 1997**

Reasons	Total	Sex		Age		
		Male	Female	<=12	13-14	15-17
<b>Total</b>						
Number	658	132	526	40	184	434
Percent	100.0	100.0	100.0	100.0	100.0	100.0
<b>Family Discord</b>						
Number	384	75	309	32	119	233
Percent	58.4	56.8	58.7	80.0	64.7	53.7
<b>Argument with Boy/Girlfriend</b>						
Number	160	33	127	4	30	126
Percent	24.3	25.0	24.1	10.0	16.3	29.0
<b>School-Related Problems</b>						
Number	143	38	105	13	50	80
Percent	21.7	28.8	20.0	32.5	27.2	18.4
<b>Substance Abuse</b>						
Number	62	22	40	4	12	46
Percent	9.4	16.7	7.6	10.0	6.5	10.6
<b>Problems with the Law</b>						
Number	61	24	37	3	13	45
Percent	9.3	18.2	7.0	7.5	7.1	10.4
<b>Rape or Sexual Abuse</b>						
Number	37	2	35	-	11	26
Percent	5.6	1.5	6.7	-	6.0	6.0
<b>Move or New School</b>						
Number	35	6	29	4	9	22
Percent	5.3	4.5	5.5	10.0	4.9	5.1
<b>Peer Pressure/Conflict</b>						
Number	35	8	27	3	12	20
Percent	5.3	6.1	5.1	7.5	6.5	4.6
<b>Death of Family Member/Friend</b>						
Number	28	5	23	1	9	18
Percent	4.3	3.8	4.4	2.5	4.9	4.1
<b>Physical Abuse</b>						
Number	23	5	18	7	5	11
Percent	3.5	3.8	3.4	17.5	2.7	2.5
<b>Suicide by Friend/Relative</b>						
Number	16	1	15	-	7	9
Percent	2.4	.8	2.9	-	3.8	2.1
<b>Pregnancy</b>						
Number	10	2	8	-	3	7
Percent	1.5	1.5	1.5	-	1.6	1.6
<b>Other Reasons</b>						
Number	163	33	130	9	42	112
Percent	24.8	25.0	24.7	22.5	22.8	25.8

NOTE: Reports with unknown reasons for suicide attempts (78) are not included in this table.

Percentages do not total 100 because more than one reason may have been given.

The category "suicide by friend/relative" includes suicide attempts.

**TABLE 8-18.**  
**Reasons Given for Suicide Attempts by Severity of Injuries, Oregon Minors, 1997**

Reasons	Total		Life Threatening?					
			Yes		Possibly		No	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total	658	100.0	87	13.2	270	41.0	295	44.8
Family Discord	384	100.0	54	14.1	158	41.1	169	44.0
Argument with Boy/Girlfriend	160	100.0	21	13.1	69	43.1	69	43.1
School-Related Problems	143	100.0	17	11.9	62	43.4	64	44.8
Substance Abuse	62	100.0	13	21.0	28	45.2	19	30.6
Problems with the Law	61	100.0	5	8.2	30	49.2	25	41.0
Rape or Sexual Abuse	37	100.0	6	16.2	17	45.9	14	37.8
Move or New School	35	100.0	3	8.6	12	34.3	20	57.1
Peer Pressure/Conflict	35	100.0	7	20.0	15	42.9	12	34.3
Death of Family Member/Friend	28	100.0	5	17.9	11	39.3	12	42.9
Physical Abuse	23	100.0	4	17.4	5	21.7	14	60.9
Suicide by Friend/Relative	16	100.0	4	25.0	4	25.0	8	50.0
Pregnancy	10	100.0	-	-	3	30.0	7	70.0
Other Reasons	163	100.0	20	12.3	74	45.4	68	41.7

NOTE: Total excludes cases with missing and unknown values for the variables shown. Percentages are calculated excluding missing and unknown values (78). Percentages do not add up to 100 because more than one reason may have been given. The category "suicide by friend/relative" includes suicide attempts.

**TABLE 8-19.**  
**Reasons Given for Suicide Attempts by Intent of Attempter, Oregon Minors, 1997**

Reasons	Total		Tried to Kill Themselves?							
			Yes		No		Ideation		Uncertain	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total	658	100.0	116	17.6	194	29.5	24	3.6	324	49.2
Family Discord	384	100.0	66	17.2	111	28.9	16	4.2	191	49.7
Argument with Boy/Girlfriend	160	100.0	38	23.7	55	34.4	6	3.7	61	38.1
School-Related Problems	143	100.0	21	14.7	32	22.4	6	4.2	84	58.7
Substance Abuse	62	100.0	12	19.4	9	14.5	6	9.7	35	56.5
Problems with the law	61	100.0	12	19.7	19	31.1	-	-	30	49.2
Rape or Sexual Abuse	37	100.0	9	24.3	6	16.2	4	10.8	18	48.6
Move or New School	35	100.0	1	2.9	11	31.4	1	2.9	22	62.9
Peer Pressure/Conflict	35	100.0	5	14.3	9	25.7	2	5.7	19	54.3
Death of Family Member/Friend	28	100.0	6	21.4	3	10.7	-	-	19	67.9
Physical Abuse	23	100.0	5	21.7	5	21.7	1	4.3	12	52.2
Suicide by Friend/Relative	16	100.0	4	25.0	4	25.0	-	-	8	50.0
Pregnancy	10	100.0	-	-	3	30.0	1	10.0	6	60.0
Other Reasons	163	100.0	35	21.5	42	25.8	3	1.8	83	50.9

NOTE: Reports with unknown reasons for suicide attempts are not included in this table. Percentages are calculated excluding missing and unknown values (78). Percentages do not add up to 100 because more than one reason may have been given. The category "suicide by friend/relative" includes suicide attempts.

**TABLE 8-20.**  
**Reported Adolescent Suicide Attempts by Hospital (and County), Oregon, 1988-1997**

Hospital and County	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
<b>Totals</b>	<b>638</b>	<b>605</b>	<b>516</b>	<b>582</b>	<b>678</b>	<b>712</b>	<b>743</b>	<b>772</b>	<b>813</b>	<b>815</b>
Albany General (Linn)	3	18	8	23	18	16	16	13	8	17
Ashland Community (Jackson)	2	2	0	2	1	3	7	3	6	2
Bay Area (Coos)	10	14	11	13	10	18	25	18	10	7
Bess Kaiser (Multnomah)	35	13	12	25	53	26	26	18	14	6
Blue Mountain (Grant)	0	2	0	1	2	1	3	1	5	5
Central Oregon (Deschutes)	6	5	4	8	7	6	7	3	4	9
Columbia Douglas (Douglas)	10	7	6	3	10	8	8	3	4	9
Columbia Memorial (Clatsop)	11	9	6	8	5	17	11	7	17	10
Columbia Willamette Valley (Yamhill)	16	9	9	10	9	13	7	23	9	22
Coquille Valley (Coos)	2	1	0	1	3	1	3	4	4	1
Cottage Grove (Lane)	13	2	8	5	7	5	5	4	4	6
Curry General (Curry)	3	2	0	2	2	3	5	4	1	1
Eastmoreland General (Multnomah)	8	6	2	4	4	3	3	2	6	0
Good Samaritan-Corvallis (Benton)	2	10	10	11	10	23	19	20	19	21
Good Shepherd Community (Umatilla)	1	4	6	10	12	6	2	5	6	7
Grande Ronde (Union)	6	5	4	9	3	3	3	10	4	5
Harney District (Harney)	0	1	2	0	1	2	2	3	2	0
Holy Rosary (Malheur)	4	12	5	7	6	18	9	15	18	7
Hood River Memorial (Hood River)	4	2	4	1	3	3	5	7	4	11
Kaiser Sunnyside (Clackamas)	10	7	5	12	41	32	19	17	25	15
Lake District (Lake)	0	1	2	0	0	1	0	1	2	3
Lebanon Community (Linn)	9	5	8	7	14	12	6	4	10	6
Legacy Emanuel (Multnomah)	18	23	22	16	23	53	79	101	65	88
Legacy Good Samaritan (Multnomah)	3	3	3	3	4	6	5	11	4	4
Legacy Meridian Park (Clackamas)	15	13	3	5	5	12	23	13	15	12
Legacy Mount Hood (Multnomah)	2	4	11	13	14	12	13	24	25	11
Lower Umpqua (Douglas)	1	2	0	2	1	1	2	4	2	0
McKenzie-Willamette (Lane)	12	20	20	30	23	7	13	14	12	23
Mercy Medical (Douglas)	27	17	8	22	18	27	15	22	8	33
Merle West (Klamath)	27	25	15	18	13	13	16	21	20	25
Mid-Columbia (Wasco)	6	8	4	1	5	7	4	7	7	3
Mountain View (Jefferson)	5	8	5	5	5	0	4	1	3	4
North Lincoln (Lincoln)	0	4	3	1	4	3	2	2	2	2
OHSU (Multnomah)	5	3	12	5	8	12	10	6	21	14
Oregon State (Marion)	4	6	5	4	0	10	17	10	4	12
Pacific Communities (Lincoln)	0	3	8	5	9	7	8	6	6	7
Peace Harbor (Lane)	1	1	5	1	1	2	3	4	3	3
Pioneer Memorial-Heppner (Morrow)	1	1	0	0	0	1	3	0	0	0
Pioneer Memorial-Prineville (Crook)	0	2	1	0	0	1	3	0	2	0
Portland Adventist (Multnomah)	40	40	31	12	79	45	4	5	10	12
Providence Medford (Jackson)	7	5	0	13	9	10	15	8	11	8
Providence Milwaukie (Clackamas)	2	3	2	1	2	4	4	3	8	5
Providence Newberg (Yamhill)	5	4	5	5	3	5	6	13	11	11
Providence Portland (Multnomah)	26	19	22	16	22	17	26	28	33	11
Providence-St. Vincent (Washington)	53	38	35	40	33	28	36	16	57	75
Providence Seaside (Clatsop)	5	8	6	2	4	17	8	6	4	1
Rogue Valley (Jackson)	23	21	17	23	8	9	22	29	28	17
Sacred Heart (Lane)	48	46	43	53	36	31	38	35	73	69
Salem (Marion)	52	57	35	49	52	54	59	89	85	71
Santiam Memorial (Marion)	2	4	3	5	4	0	1	3	1	7
Silverton (Marion)	1	4	1	2	1	4	7	7	3	4
Southern Coos (Coos)	3	6	3	1	1	1	4	2	0	1
Three Rivers-Dimmick (Josephine)	16	15	12	12	4	14	17	11	15	20
Three Rivers-Washington (Josephine)	1	0	2	2	3	7	8	1	5	3
St. Anthony (Umatilla)	10	4	4	11	4	7	5	8	7	8
St. Charles (Deschutes)	14	13	11	12	13	17	26	26	18	16
St. Elizabeth (Baker)	2	1	2	3	6	0	2	2	3	5
Tillamook County (Washington)	3	1	1	1	3	11	6	7	6	2
Tuality Community (Washington)	17	8	10	3	8	16	16	13	22	17
Tuality Forest Grove (Washington)	6	9	1	3	4	2	3	5	2	2
Valley Community (Polk)	2	4	7	3	5	5	6	6	6	6
Wallowa Memorial (Wallowa)	0	0	4	1	1	3	1	2	0	2
Willamette Falls (Clackamas)	11	7	10	10	15	10	9	14	11	16
Woodland Park (Multnomah)	7	7	12	5	4	1	2	2	1	2

NOTE: Totals in the table include reports for attempters 18 or older, out-of-state residents, and duplicate reports. Therefore, these figures are higher than the final numbers reported elsewhere in this chapter. Included in the totals, but not shown, are the number of reports from hospitals that have since closed.

**TABLE A-1.  
Population Distribution by Age and Sex, Oregon, 1950, 1960, 1970, 1975-1997**

Year and Sex	Total	Age Groups																	
		0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
<b>1950</b>	1,521,341	163,915	131,596	108,140	96,738	105,070	117,706	116,800	117,361	105,575	93,228	86,118	77,843	68,230	54,455	37,095	34,979	*	6,492
M	772,776	83,614	67,244	55,528	47,652	51,469	57,940	57,930	59,391	54,452	48,574	44,802	40,426	36,027	28,498	19,085	17,143	*	3,001
F	748,565	80,301	64,352	52,612	49,086	53,601	59,766	58,870	57,970	51,123	44,654	41,316	37,417	32,203	25,957	18,010	17,836	*	3,491
<b>1960</b>	1,768,675	185,403	189,333	170,768	131,315	95,773	96,636	107,999	118,152	116,218	114,074	101,313	87,606	74,007	65,908	52,734	34,274	17,713	9,449
M	879,929	94,330	96,553	87,191	64,463	46,011	47,318	52,924	57,451	57,832	57,574	52,052	43,615	37,003	32,257	25,175	16,407	7,935	3,838
F	888,746	91,073	92,780	83,577	66,852	49,762	49,318	55,075	60,701	58,386	56,500	49,261	43,991	37,004	33,651	27,559	17,867	9,778	5,611
<b>1970</b>	2,091,385	164,060	194,345	211,284	203,362	162,638	138,978	115,599	107,832	117,950	124,395	118,996	110,739	94,408	75,601	60,321	44,263	27,900	18,714
M	1,023,952	83,836	99,274	107,664	100,952	75,549	68,827	57,764	52,738	57,790	60,407	58,563	54,576	45,809	35,886	26,956	18,946	11,249	7,166
F	1,067,433	80,224	95,071	103,620	102,410	87,089	70,151	57,835	55,094	60,160	63,988	60,433	56,163	48,599	39,715	33,365	25,317	16,651	11,548
<b>1975</b>	2,292,734	166,930	176,125	211,149	224,538	222,013	180,346	152,553	122,891	114,611	120,938	125,783	117,631	106,710	86,844	66,077	48,381	31,022	18,194
M	1,120,178	85,331	89,859	107,668	114,204	108,866	84,271	76,482	61,305	55,959	58,944	60,547	56,993	51,149	40,571	29,622	19,879	11,966	6,562
F	1,172,556	81,599	86,266	103,481	110,334	113,146	96,075	76,071	61,586	58,652	61,994	65,236	60,638	55,561	46,273	36,455	28,502	19,056	11,632
<b>1980</b>	2,632,663	197,951	189,293	202,546	225,814	237,788	253,472	227,565	170,694	133,101	119,249	124,344	129,886	117,676	105,165	79,367	55,327	34,994	28,431
M	1,296,355	101,815	96,965	103,594	114,690	117,800	126,867	115,071	86,047	67,073	58,948	60,356	62,001	56,031	49,287	35,404	22,747	12,802	8,857
F	1,336,308	96,136	92,328	98,952	111,124	119,988	126,605	112,494	84,647	66,028	60,301	63,988	67,885	61,645	55,878	43,963	32,580	22,192	19,574
<b>1981</b>	2,660,435	203,594	184,616	203,543	217,750	234,053	252,725	241,926	179,636	140,523	118,937	122,571	128,335	119,708	107,390	83,548	56,478	36,576	28,526
M	1,310,480	104,334	94,477	104,341	111,275	115,874	126,043	122,079	90,690	70,811	59,188	59,493	61,398	56,675	50,396	37,441	23,405	13,444	9,116
F	1,349,955	99,260	90,139	99,202	106,475	118,179	126,682	119,847	88,946	69,712	59,749	63,078	66,937	63,033	56,994	46,107	33,073	23,132	19,410
<b>1982</b>	2,656,185	205,442	184,989	200,663	214,621	225,266	245,516	240,579	191,815	145,302	119,328	118,393	124,286	121,205	108,828	87,242	122,710	*	*
M	1,308,018	104,536	94,896	102,787	110,004	112,537	121,444	121,229	96,778	73,205	59,541	57,526	59,397	57,238	50,920	39,287	46,693	*	*
F	1,348,167	100,906	90,093	97,876	104,617	112,729	124,072	119,350	95,037	72,097	59,787	60,867	64,889	63,967	57,908	47,955	76,017	*	*
<b>1983</b>	2,634,993	200,502	185,101	195,306	208,383	221,102	233,950	236,452	197,788	150,869	119,798	113,707	119,496	121,107	110,442	90,061	130,929	*	*
M	1,292,711	102,231	95,121	99,869	106,267	110,629	115,627	118,621	99,538	75,798	59,704	55,279	57,032	56,925	51,386	40,321	48,363	*	*
F	1,342,282	98,271	89,980	95,437	102,116	110,473	118,323	117,831	98,250	75,071	60,094	58,428	62,464	64,182	59,056	49,740	82,566	*	*
<b>1984</b>	2,660,000	201,561	189,002	189,940	203,518	224,882	227,497	240,883	208,395	159,323	124,516	113,420	118,076	118,774	111,029	93,393	135,791	*	*
M	1,307,023	102,591	97,255	97,250	103,737	113,484	112,302	120,975	105,194	80,218	62,374	55,513	56,574	55,671	51,445	41,826	50,614	*	*
F	1,352,977	98,970	91,747	92,690	99,781	111,398	115,195	119,908	103,201	79,105	62,142	57,907	61,502	63,103	59,584	51,567	85,177	*	*
<b>1985</b>	2,675,800	198,995	195,271	184,845	197,808	215,641	227,827	243,741	222,457	165,140	128,521	112,530	115,551	118,327	113,657	93,372	142,117	*	*
M	1,313,949	101,338	100,344	94,619	101,111	109,413	112,518	121,577	112,168	83,090	64,509	55,332	55,429	55,393	52,316	41,694	53,098	*	*
F	1,361,851	97,657	94,927	90,226	96,697	106,228	115,309	122,164	110,289	82,050	64,012	57,198	60,122	62,934	61,341	51,678	89,019	*	*
<b>1986</b>	2,659,500	192,981	198,234	178,510	201,362	218,875	215,376	230,757	226,179	170,171	132,244	110,782	112,555	115,440	113,886	94,884	147,262	*	*
M	1,306,352	99,387	101,905	91,311	103,035	111,407	106,184	114,740	113,865	85,721	66,366	54,767	53,979	54,110	52,262	42,354	54,957	*	*
F	1,353,148	93,594	96,329	87,199	98,327	107,468	109,192	116,017	112,314	84,450	65,878	56,015	58,576	61,330	61,624	52,530	92,305	*	*

\* Included with ages 75-79.

**TABLE A-1.**  
**Population Distribution by Age and Sex, Oregon, 1950, 1960, 1970, 1975-1997 (Continued)**

Year and Sex	Total	Age Groups															
		0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+
<b>1987</b>	2,690,000	192,835	200,887	177,142	192,540	202,447	221,131	240,492	233,108	185,303	139,735	113,692	111,266	114,319	116,900	94,415	153,788
M	1,319,182	98,346	102,721	90,813	59,308	103,541	109,192	119,268	117,116	93,245	70,128	56,357	53,421	53,559	53,493	42,000	57,446
F	1,370,818	94,489	98,166	86,329	94,004	98,906	111,939	121,224	115,992	92,058	69,607	57,335	57,845	60,760	63,407	52,415	96,342
<b>1988</b>	2,741,000	192,567	203,622	185,233	196,610	199,752	222,959	240,352	238,871	196,152	148,261	117,137	110,863	114,273	118,350	97,002	158,996
M	1,343,473	98,209	103,999	95,157	100,306	102,116	111,083	118,915	119,769	98,570	74,365	58,090	53,296	53,527	53,905	42,965	59,201
F	1,397,527	94,358	99,623	90,076	96,304	97,636	111,876	121,437	119,102	97,582	73,896	59,047	57,567	60,746	64,445	54,037	99,795
<b>1989</b>	2,791,000	194,864	206,097	192,051	199,548	212,810	221,058	224,961	240,001	207,799	159,320	123,433	111,762	114,482	118,882	97,182	166,640
M	1,368,413	99,771	105,433	98,800	102,148	108,752	110,752	110,804	119,729	104,551	79,911	61,375	54,128	53,711	53,943	42,776	61,829
F	1,422,587	95,093	100,664	93,251	97,400	104,058	110,306	114,157	120,272	103,248	79,409	62,058	57,744	60,771	64,939	54,406	104,811
<b>1990</b>	2,847,000	203,678	205,765	199,955	190,781	199,581	221,902	233,898	249,986	223,597	166,333	128,276	112,111	112,679	120,405	99,641	178,413
M	1,396,242	104,769	106,052	102,738	97,540	101,520	112,129	115,287	124,674	112,602	83,400	63,928	54,393	52,976	54,892	43,473	65,870
F	1,450,758	98,909	99,713	97,217	93,241	98,061	109,773	118,611	125,312	110,995	82,933	64,348	57,718	59,703	65,513	56,168	112,543
<b>1991</b>	2,930,000	213,789	216,325	213,018	191,353	197,708	208,392	242,260	256,348	241,789	173,728	136,221	115,980	119,464	122,668	104,389	176,568
M	1,440,221	109,314	111,143	109,057	98,310	100,273	105,635	120,453	127,437	121,245	87,254	67,836	56,314	56,341	56,351	46,435	66,823
F	1,489,779	104,475	105,182	103,961	93,043	97,435	102,757	121,807	128,911	120,544	86,474	68,385	59,666	63,123	66,317	57,954	109,745
<b>1992</b>	2,979,000	217,940	217,090	214,983	195,858	203,918	205,434	239,514	258,908	244,961	194,079	144,574	118,598	116,262	121,730	108,014	177,137
M	1,466,610	112,089	111,233	110,140	100,794	103,741	104,300	119,323	128,677	122,474	97,351	72,091	57,903	54,932	55,914	48,097	67,551
F	1,512,390	105,851	105,857	104,843	95,064	100,177	101,134	120,191	130,231	122,487	96,728	72,483	60,695	61,330	65,816	59,917	109,586
<b>1993</b>	3,038,000	224,939	216,116	218,756	203,348	209,199	204,576	238,809	260,400	251,059	205,319	152,790	120,968	115,116	121,313	111,552	183,740
M	1,495,551	115,151	110,546	112,259	104,204	106,918	104,012	119,252	129,191	125,233	102,879	76,383	59,035	54,266	55,988	49,604	70,630
F	1,542,449	109,788	105,570	106,497	99,144	102,281	100,564	119,557	131,209	125,826	102,440	76,407	61,933	60,850	65,325	61,948	113,110
<b>1994</b>	3,082,000	228,650	218,658	222,394	209,032	214,579	203,053	233,132	257,033	256,634	216,758	160,859	124,151	112,391	120,767	113,874	190,035
M	1,516,836	117,546	111,748	114,132	106,906	109,861	102,570	116,584	127,635	127,477	108,569	80,459	60,835	53,182	56,075	50,587	72,668
F	1,565,164	111,104	106,910	108,262	102,126	104,718	100,481	116,548	129,398	129,157	108,189	80,400	63,316	59,209	64,692	62,287	117,367
<b>1995</b>	3,132,000	231,584	225,513	222,660	213,595	208,322	199,568	232,116	258,273	264,101	232,380	170,663	129,959	113,424	121,428	113,812	194,602
M	1,543,133	118,939	115,314	114,532	109,361	106,964	101,281	116,723	128,027	130,894	116,149	85,147	64,015	53,857	56,309	50,528	75,093
F	1,588,867	112,645	110,199	108,128	104,234	101,358	98,287	115,393	130,246	133,207	116,231	85,516	65,944	59,567	65,119	63,284	119,509
<b>1996</b>	3,181,000	233,523	227,533	223,118	221,021	210,106	204,872	226,069	258,725	266,757	248,215	175,889	137,004	114,195	120,260	113,338	200,375
M	1,566,932	119,872	116,490	114,560	112,700	108,335	103,960	114,107	128,330	132,074	123,879	87,740	67,582	54,443	55,793	50,378	76,689
F	1,614,068	113,651	111,043	108,558	108,321	101,771	100,912	111,962	130,395	134,683	124,336	88,149	69,422	59,752	64,467	62,960	123,686
<b>1997</b>	3,217,000	231,023	229,318	223,940	229,066	216,134	206,595	219,687	255,281	269,136	249,316	192,710	142,154	115,901	118,342	113,382	205,015
M	1,585,778	118,672	117,666	114,812	117,278	110,995	104,822	110,989	126,785	133,109	124,192	96,123	70,037	55,565	54,885	50,545	79,303
F	1,631,222	112,351	111,652	109,128	111,788	105,139	101,773	108,698	128,496	136,027	125,124	96,587	72,117	60,336	63,457	62,837	125,712

Source: 1950, 1960, 1970, 1980, and 1990 data are U.S. Census. All other years' data are estimates provided by Center for Population Research and Census, Portland State University.

**TABLE A-2.**  
**Population Estimates for Oregon and Its Counties by Age and Sex: July 1, 1997**

County	Both Sexes																		
	All Ages	0-4	5-9	10-14	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+
<b>Total</b>	3,217,000	231,023	229,318	223,940	139,672	89,394	216,134	206,595	219,687	255,281	269,136	249,316	192,710	142,154	115,901	118,342	113,382	92,183	112,832
Baker	16,500	989	1,069	1,248	818	475	1,128	726	879	1,153	1,264	1,110	919	853	805	787	764	629	884
Benton	76,700	4,123	4,480	4,795	2,799	4,805	10,730	5,865	5,180	5,593	6,067	5,423	4,033	2,750	2,236	2,189	2,003	1,666	1,963
Clackamas	317,700	22,044	22,228	22,650	14,948	8,932	22,180	18,525	19,216	23,988	27,165	27,414	22,738	16,276	12,044	10,554	9,573	7,928	9,297
Clatsop	34,500	2,094	2,397	2,431	1,622	1,023	2,338	2,026	2,083	2,465	2,879	2,708	1,985	1,599	1,368	1,473	1,443	1,133	1,433
Columbia	41,500	2,616	3,028	3,107	2,121	1,339	3,209	2,287	2,197	3,072	3,351	3,328	2,774	2,131	1,601	1,569	1,406	1,091	1,273
Coos	61,400	3,374	3,861	4,301	2,789	1,792	4,179	3,044	3,304	4,236	4,691	4,457	3,651	3,176	2,802	3,241	3,143	2,473	2,886
Crook	16,250	1,187	1,183	1,176	723	454	1,187	915	984	1,193	1,154	1,188	875	741	666	775	690	534	625
Curry	22,200	1,127	1,391	1,298	818	451	1,256	913	1,131	1,382	1,640	1,498	1,281	1,059	1,094	1,665	1,774	1,217	1,205
Deschutes	101,200	7,703	7,087	6,998	4,571	2,310	6,553	6,158	6,492	8,398	9,075	8,332	5,961	4,536	3,694	3,943	3,725	2,775	2,889
Douglas	99,100	5,832	6,681	7,079	4,534	3,105	7,053	5,341	5,415	6,600	7,466	7,084	5,923	4,764	4,239	5,385	4,737	3,643	4,219
Gilliam	1,950	93	96	152	127	60	125	79	90	184	160	136	103	85	102	114	100	64	80
Grant	7,950	482	554	610	391	273	550	349	397	529	651	658	453	413	385	337	300	274	344
Harney	7,500	441	508	563	369	223	577	334	417	546	649	526	444	422	360	345	295	236	245
Hood River	19,200	1,582	1,525	1,371	849	525	1,326	1,062	1,217	1,595	1,629	1,378	1,090	804	696	667	592	575	717
Jackson	169,300	11,435	11,430	11,598	7,312	4,362	11,013	10,846	10,391	11,783	13,059	13,044	10,329	7,877	6,609	7,716	7,347	6,034	7,115
Jefferson	17,100	1,504	1,592	1,428	749	411	1,170	1,010	1,233	1,281	1,119	1,047	790	674	633	760	715	464	520
Josephine	73,000	4,685	4,886	4,849	3,161	1,855	4,813	3,703	3,917	4,747	5,200	5,281	4,452	3,600	3,219	3,782	3,933	3,208	3,709
Klamath	61,600	4,380	4,369	4,413	2,774	1,792	4,390	4,240	3,838	4,184	4,589	4,531	3,637	2,792	2,596	2,639	2,528	1,856	2,052
Lake	7,400	458	550	559	345	268	544	286	372	508	584	523	439	394	359	376	322	241	272
Lane	308,500	18,888	20,158	20,757	12,974	10,774	24,627	21,042	20,828	23,126	25,234	24,487	18,560	13,443	10,641	11,686	11,302	9,115	10,858
Lincoln	42,500	2,463	2,713	2,805	1,868	1,079	2,508	1,833	2,142	2,926	3,507	3,295	2,490	1,982	1,904	2,614	2,669	1,851	1,851
Linn	100,700	6,969	7,129	7,301	4,555	2,827	6,920	6,356	6,517	7,508	7,677	7,204	5,993	4,710	3,903	4,101	3,943	3,237	3,850
Malheur	28,700	2,606	2,342	2,279	1,452	883	2,311	1,748	1,598	1,776	1,865	1,739	1,452	1,224	1,145	1,159	1,095	891	1,135
Marion	267,700	22,598	19,997	18,881	11,816	6,833	17,223	18,673	19,460	21,525	21,125	18,992	14,834	11,031	9,206	9,184	8,837	7,529	9,956
Morrow	9,050	754	664	737	454	269	715	483	516	677	734	642	472	395	376	399	277	212	274
Multnomah	639,000	47,843	47,918	42,017	24,454	14,718	34,224	44,540	51,892	58,340	59,575	52,322	37,525	25,958	20,842	18,753	19,329	16,506	22,244
Polk	57,400	3,662	3,840	4,122	2,749	1,618	3,805	5,206	3,571	3,782	4,327	4,184	3,222	2,338	2,122	2,503	2,229	1,835	2,285
Sherman	1,900	76	119	143	72	68	152	50	81	156	153	150	104	94	97	112	128	73	72
Tillamook	23,800	1,336	1,478	1,588	1,025	670	1,505	1,109	1,259	1,623	1,813	1,735	1,376	1,116	1,058	1,519	1,497	986	1,107
Umatilla	65,500	5,259	5,018	4,931	3,004	1,891	4,643	4,360	4,507	4,943	4,952	4,449	3,570	2,808	2,445	2,248	2,321	1,877	2,274
Union	24,500	1,464	1,619	1,729	1,190	813	1,887	1,959	1,361	1,576	1,936	1,871	1,424	1,138	920	927	825	810	1,051
Wallowa	7,300	372	460	569	377	231	514	285	356	517	619	555	408	378	327	386	364	248	334
Wasco	22,600	1,439	1,529	1,647	1,045	713	1,653	1,061	1,130	1,552	1,727	1,678	1,357	1,075	895	1,050	1,053	863	1,133
Washington	385,000	33,348	29,540	27,639	16,763	9,266	23,621	23,779	30,455	35,549	34,971	30,636	23,581	16,159	11,825	10,618	9,553	7,893	9,804
Wheeler	1,600	88	98	91	71	43	106	75	73	89	110	106	108	105	94	112	87	72	72
Yamhill	79,200	5,709	5,781	6,078	3,983	2,243	5,399	6,327	5,188	6,179	6,419	5,605	4,357	3,254	2,593	2,654	2,483	2,144	2,804

Source: Center for Population Research and Census, Portland State University.

**TABLE A-2.  
Population Estimates for Oregon and Its Counties by Age and Sex: July 1, 1997 (Continued)**

County	Male																		
	All Ages	0-4	5-9	10-14	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+
<b>Total</b>	1,585,778	118,672	117,666	114,812	71,449	45,829	110,995	104,822	110,989	126,785	133,109	124,192	96,123	70,037	55,565	54,885	50,545	38,928	40,375
Baker	8,206	508	535	642	429	257	610	387	443	574	655	544	472	425	385	376	350	278	336
Benton	38,401	2,116	2,327	2,515	1,426	2,470	5,664	2,952	2,741	2,806	2,915	2,766	1,993	1,330	1,076	1,010	880	734	680
Clackamas	156,531	11,327	11,329	11,603	7,682	4,592	11,413	9,579	9,536	11,644	13,160	13,355	11,306	8,168	5,902	4,946	4,320	3,350	3,319
Clatsop	17,095	1,075	1,239	1,289	867	550	1,174	1,022	1,108	1,238	1,391	1,411	986	817	645	670	641	471	501
Columbia	20,690	1,344	1,561	1,595	1,077	699	1,665	1,154	1,067	1,484	1,706	1,649	1,429	1,109	810	748	631	487	475
Coos	30,171	1,732	2,023	2,210	1,447	922	2,125	1,564	1,642	2,097	2,275	2,189	1,809	1,572	1,325	1,532	1,479	1,120	1,108
Crook	8,123	609	608	622	378	229	663	463	493	573	572	593	463	370	325	361	327	226	248
Curry	10,858	579	723	637	438	206	628	459	555	682	828	744	624	525	490	786	873	565	516
Deschutes	50,414	3,966	3,648	3,670	2,324	1,177	3,500	3,273	3,195	4,009	4,380	4,281	2,939	2,238	1,778	1,886	1,725	1,258	1,167
Douglas	48,809	2,993	3,439	3,628	2,270	1,630	3,670	2,746	2,629	3,176	3,684	3,525	2,928	2,375	2,028	2,570	2,226	1,612	1,680
Gilliam	967	47	45	77	70	36	68	41	45	84	86	73	46	38	51	51	51	27	31
Grant	3,970	247	275	309	205	144	283	173	203	251	328	350	232	194	201	165	146	120	144
Harney	3,746	227	258	306	186	112	277	171	209	268	333	272	223	202	189	164	149	98	102
Hood River	9,776	813	777	673	434	253	689	602	672	851	865	729	565	402	350	302	268	262	269
Jackson	82,767	5,876	5,794	5,948	3,723	2,197	5,661	5,419	5,138	5,727	6,182	6,459	5,153	3,853	3,197	3,652	3,385	2,680	2,723
Jefferson	8,570	773	806	718	382	201	627	505	654	659	550	549	400	328	278	356	348	219	217
Josephine	35,506	2,409	2,533	2,529	1,620	953	2,529	1,891	1,926	2,273	2,455	2,570	2,143	1,712	1,521	1,778	1,775	1,440	1,449
Klamath	30,878	2,249	2,243	2,238	1,432	962	2,315	2,354	1,944	2,057	2,251	2,272	1,872	1,390	1,248	1,263	1,176	826	786
Lake	3,687	235	272	279	190	134	278	143	183	259	277	287	228	185	178	166	165	115	113
Lane	150,543	9,697	10,289	10,578	6,586	5,461	12,294	10,551	10,534	11,358	12,080	12,076	9,199	6,559	5,124	5,420	4,984	3,810	3,943
Lincoln	20,418	1,265	1,384	1,426	949	537	1,272	910	1,026	1,412	1,730	1,597	1,205	955	849	1,165	1,213	831	692
Linn	49,587	3,578	3,640	3,739	2,369	1,452	3,550	3,227	3,291	3,716	3,796	3,580	2,984	2,288	1,887	1,926	1,764	1,370	1,430
Malheur	14,108	1,338	1,172	1,179	709	458	1,196	923	808	903	919	820	705	595	535	540	483	403	422
Marion	133,823	11,609	10,306	9,677	6,049	3,502	8,945	9,828	10,448	11,244	10,841	9,646	7,479	5,339	4,362	4,159	3,798	3,139	3,452
Morrow	4,584	387	334	375	222	156	388	245	271	350	360	344	240	197	182	194	134	98	107
Multnomah	313,043	24,566	24,681	21,489	12,392	7,545	17,224	21,928	26,043	29,265	30,178	26,420	18,887	12,706	9,848	8,466	8,087	6,374	6,944
Polk	27,860	1,882	1,968	2,147	1,428	843	1,974	2,435	1,819	1,795	2,083	2,070	1,565	1,145	977	1,175	978	750	826
Sherman	963	39	62	66	39	38	88	27	43	81	76	78	61	40	45	55	58	41	26
Tillamook	11,685	687	762	837	526	350	763	580	646	821	887	904	681	523	480	686	714	426	412
Umatilla	33,155	2,700	2,591	2,529	1,558	953	2,440	2,438	2,501	2,621	2,521	2,253	1,785	1,393	1,173	1,021	1,035	801	842
Union	12,069	751	852	883	626	427	960	961	690	746	943	937	710	562	453	447	385	342	394
Wallowa	3,612	191	228	272	198	114	264	149	174	245	342	282	202	199	164	174	173	115	126
Wasco	10,963	738	758	847	525	367	868	542	543	745	831	831	660	563	419	459	480	369	418
Washington	189,590	17,140	15,231	14,112	8,597	4,744	12,093	11,892	14,996	17,586	17,275	14,838	11,625	7,989	5,769	4,914	4,196	3,215	3,378
Wheeler	781	45	47	49	32	20	58	38	33	37	54	53	49	54	49	50	43	36	34
Yamhill	39,829	2,934	2,926	3,119	2,064	1,138	2,779	3,250	2,740	3,148	3,300	2,845	2,275	1,697	1,272	1,252	1,105	920	1,065

Source: Center for Population Research and Census, Portland State University.

**TABLE A-2.**  
**Population Estimates for Oregon and Its Counties by Age and Sex: July 1, 1997 (Continued)**

County	Female																		
	All Ages	0-4	5-9	10-14	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+
<b>Total</b>	1,631,222	112,351	111,652	109,128	68,223	43,565	105,139	101,773	108,698	128,496	136,027	125,124	96,587	72,117	60,336	63,457	62,837	53,255	72,457
Baker	8,294	481	534	606	389	218	518	339	436	579	609	566	447	428	420	411	414	351	548
Benton	38,299	2,007	2,153	2,280	1,373	2,335	5,066	2,913	2,439	2,787	3,152	2,657	2,040	1,420	1,160	1,179	1,123	932	1,283
Clackamas	161,169	10,717	10,899	11,047	7,266	4,340	10,767	8,946	9,680	12,344	14,005	14,059	11,432	8,108	6,142	5,608	5,253	4,578	5,978
Clatsop	17,405	1,019	1,158	1,142	755	473	1,164	1,004	975	1,227	1,488	1,297	999	782	723	803	802	662	932
Columbia	20,810	1,272	1,467	1,512	1,044	640	1,544	1,133	1,130	1,588	1,645	1,679	1,345	1,022	791	821	775	604	798
Coos	31,229	1,642	1,838	2,091	1,342	870	2,054	1,480	1,662	2,139	2,416	2,268	1,842	1,604	1,477	1,709	1,664	1,353	1,778
Crook	8,127	578	575	554	345	225	524	452	491	620	582	595	412	371	341	414	363	308	377
Curry	11,342	548	668	661	380	245	628	454	576	700	812	754	657	534	604	879	901	652	689
Deschutes	50,786	3,737	3,439	3,328	2,247	1,133	3,053	2,885	3,297	4,389	4,695	4,051	3,022	2,298	1,916	2,057	2,000	1,517	1,722
Douglas	50,291	2,839	3,242	3,451	2,264	1,475	3,383	2,595	2,786	3,424	3,782	3,559	2,995	2,389	2,211	2,815	2,511	2,031	2,539
Gilliam	983	46	51	75	57	24	57	38	45	100	74	63	57	47	51	63	49	37	49
Grant	3,980	235	279	301	186	129	267	176	194	278	323	308	221	219	184	172	154	154	200
Hamey	3,754	214	250	257	183	111	300	163	208	278	316	254	221	220	171	181	146	138	143
Hood River	9,424	769	748	698	415	272	637	460	545	744	764	649	525	402	346	365	324	313	448
Jackson	86,533	5,559	5,636	5,650	3,589	2,165	5,352	5,427	5,253	6,056	6,877	6,585	5,176	4,024	3,412	4,064	3,962	3,354	4,392
Jefferson	8,530	731	786	710	367	210	543	505	579	622	569	498	390	346	355	404	367	245	303
Josephine	37,494	2,276	2,353	2,320	1,541	902	2,284	1,812	1,991	2,474	2,745	2,711	2,309	1,888	1,698	2,004	2,158	1,768	2,260
Klamath	30,722	2,131	2,126	2,175	1,342	830	2,075	1,886	1,894	2,127	2,338	2,259	1,765	1,402	1,348	1,376	1,352	1,030	1,266
Lake	3,713	223	278	280	155	134	266	143	189	249	307	236	211	209	181	210	157	126	159
Lane	157,957	9,191	9,869	10,179	6,388	5,313	12,333	10,491	10,294	11,768	13,154	12,411	9,361	6,884	5,517	6,266	6,318	5,305	6,915
Lincoln	22,082	1,198	1,329	1,379	919	542	1,236	923	1,116	1,514	1,777	1,698	1,285	1,027	1,055	1,449	1,456	1,020	1,159
Linn	51,113	3,391	3,489	3,562	2,186	1,375	3,370	3,129	3,226	3,792	3,881	3,624	3,009	2,422	2,016	2,175	2,179	1,867	2,420
Malheur	14,592	1,268	1,170	1,100	743	425	1,115	825	790	873	946	919	747	629	610	619	612	488	713
Marion	133,877	10,989	9,691	9,204	5,767	3,331	8,278	8,845	9,012	10,281	10,284	9,346	7,355	5,692	4,844	5,025	5,039	4,390	6,504
Morrow	4,466	367	330	362	232	113	327	238	245	327	374	298	232	198	194	205	143	114	167
Multnomah	325,957	23,277	23,237	20,528	12,062	7,173	17,000	22,612	25,849	29,075	29,397	25,902	18,638	13,252	10,994	10,287	11,242	10,132	15,300
Polk	29,540	1,780	1,872	1,975	1,321	775	1,831	2,771	1,752	1,987	2,244	2,114	1,657	1,193	1,145	1,328	1,251	1,085	1,459
Sherman	937	37	57	77	33	30	64	23	38	75	77	72	43	54	52	57	70	32	46
Tillamook	12,115	649	716	751	499	320	742	529	613	802	926	831	695	593	578	833	783	560	695
Umatilla	32,345	2,559	2,427	2,402	1,446	938	2,203	1,922	2,006	2,322	2,431	2,196	1,785	1,415	1,272	1,227	1,286	1,076	1,432
Union	12,431	713	767	846	564	386	927	998	671	830	993	934	714	576	467	480	440	468	657
Wallowa	3,688	181	232	297	179	117	250	136	182	272	277	273	206	179	163	212	191	133	208
Wasco	11,637	701	771	800	520	346	785	519	587	807	896	847	697	512	476	591	573	494	715
Washington	195,410	16,208	14,309	13,527	8,166	4,522	11,528	11,887	15,459	17,963	17,696	15,798	11,956	8,170	6,056	5,704	5,357	4,678	6,426
Wheeler	819	43	51	42	39	23	48	37	40	52	56	53	59	51	45	62	44	36	38
Yamhill	39,371	2,775	2,855	2,959	1,919	1,105	2,620	3,077	2,448	3,031	3,119	2,760	2,082	1,557	1,321	1,402	1,378	1,224	1,739

Source: Center for Population Research and Census, Portland State University.

**TABLE A-3.**  
**Population Projections for Oregon, 2000-2025**

Numbers in Thousands

<b>Year</b>	<b>Sex</b>	<b>Total</b>	<b>Age 0-4</b>	<b>Age 5-17</b>	<b>Age 18-24</b>	<b>Age 25-64</b>	<b>Age 65+</b>
<b>2000</b>	Total	3,397	211	599	318	1,798	471
	Female	1,723	103	292	156	903	269
	Male	1,674	108	307	162	895	202
<b>2005</b>	Total	3,613	219	602	331	1,939	522
	Female	1,833	107	293	163	975	295
	Male	1,780	112	309	168	964	227
<b>2015</b>	Total	3,992	238	613	334	2,066	741
	Female	2,024	116	298	166	1,042	402
	Male	1,968	122	315	218	1,024	339
<b>2025</b>	Total	4,349	246	661	334	2,054	1,054
	Female	2,202	120	322	165	1,039	556
	Male	2,147	126	339	169	1,015	498

SOURCE: Summary file, "Population Projections for States by Age, Sex, Race, Hispanic Origin: 1995 to 2025", Listing #47

<http://www.census.gov/population/www/projections/stproj.html>

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# Appendix B: Technical Notes – Definitions

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## BIRTHS

**Apgar Score** is a numerical expression of the condition of a newborn shortly after birth. It is the sum of points accumulated upon assessment of the heart rate, respiratory effort, muscle tone, reflex irritability, and color. The highest possible score is ten. A low Apgar score (seven or less) measured five minutes after birth indicates the infant is at increased risk of morbidity and mortality.

**Births to Unmarried Mothers Ratio** is the number of births to unmarried mothers per 1,000 live births. Ratios differ from rates.

**Crude Birth Rate** is the number of live births per 1,000 total population.

**Live Birth** is the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy, which, after such a separation, breathes or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached; each product of such a birth is considered live born.<sup>1</sup>

**Low Birthweight Infant** is a live born infant with a birthweight less than 5 pounds, 8 ounces (2,500 grams) as reported on the birth certificate.

## DEATHS

**Crude Death Rate** is the number of deaths per 1,000 or 100,000 total population.

**Fetal Death** is death prior to the complete expulsion or extraction from its mother of a product of conception of at least 20 weeks gestation, except where such expulsion results from a therapeutic abortion; the death is indicated by the fact that after such separation, 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.

**Fetal Death Ratio** is the number of fetal deaths per 1,000 live births. Ratios differ from rates.

**Infant Death** is the death of a child prior to its first birthday.

**Infant Death Rate** is the number of infant deaths per 1,000 live births.

**Maternal Death Rate** is the number of female deaths attributed to childbirth or to complications of pregnancy or the puerperium, per 100,000 live births.

**Neonatal Death** is the death of a child within the first 27 days of life.

**Neonatal Death Rate** is the number of neonatal deaths per 1,000 live births.

**Postneonatal Death** is the death of a child after 27 days of life and before its first birthday.

**Postneonatal Death Rate** is the number of postneonatal deaths per 1,000 live births.

**Perinatal Death** is the death of a fetus after 20 weeks gestation or the death of a live-born infant prior to the 28th day of life. Other medical literature may include different time periods.

**Perinatal Death Ratio** is the number of perinatal deaths per 1,000 total live births. Ratios differ from rates.

## **MEDICAL PERSONNEL — ABBREVIATIONS USED IN TABLES**

**C.N.M.** — certified nurse midwife.

**D.C.** — doctor of chiropractic medicine.

**D.O.** — doctor of osteopathic medicine.

**L.D.E.M.** — licensed direct entry midwife.

**M.D.** — medical doctor.

**N.D.** — naturopathic doctor.

**R.N.** — registered nurse.

## **ENDNOTES**

- 1 *Vital Statistics of the United States*, 1982, vol. 1, section 4, page 1. U.S. Department of Health and Human Services, Public Health Service, National Center for Health Statistics, Maryland, 1986.

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# Technical Notes — Methodology

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*"That, sir, is the good of counting; it brings everything to a certainty, which before floated in the mind indefinitely."*

—Samuel Johnson

## **MORTALITY**

Beginning in 1993, the underlying cause of death was determined by using Super MICAR, software distributed by the National Center for Health Statistics. In the past, the underlying cause of death was determined by a nosologist using information provided on death certificates by physicians. Super MICAR applies a set of algorithms to all the causes listed on a death certificate to arrive at the underlying cause of death. Because the error rate for Super MICAR is unacceptably high for deaths due to external causes (e.g. unintentional injuries and suicide), these death certificates are still manually coded by a nosologist. Additional edits have been added to the processing system to reduce the error rate for deaths due to natural causes. The end result is that the underlying cause of death coding is largely comparable to previous years.

This software is being used because the number of deaths among Oregonians has increased substantially during recent years, but has not been accompanied by an increase in staff. Consequently, data availability became increasingly untimely during recent years. Instituting the Super MICAR system should ultimately result in more timely data.

An advantage of the Super Micar system is that all causes recorded on the death certificate are now inputted into the data file. We will be able to report, for example, not only the number of Oregonians who died from Alzheimer's Disease but the number of Oregonians who had the disease at the time of their death (provided it was mentioned on the certificate).

Except for Table 6-42 and Table 6-43, the death rates in this report are not age-adjusted. (However, age- and sex-specific death rates are presented in addition to crude death rates.) Age-adjusted death rates permit the comparison of populations with disparate age structures as if the populations had similar distributions.

The number of Oregonians whose deaths were linked to tobacco use are presented in the mortality section. However, the number is artificially low. This is because the role of tobacco, if any, is not routinely noted on the death certificates of Oregonians who died out-of-state. (The footnotes in the tables describe the question on the Oregon death certificate regarding tobacco use.) The potential for undercount is greatest for Oregon residents who live in counties bordering other states. A more detailed discussion can be found in *Tobacco and Oregon: A Legacy of Illness and Death*, published in 1992.

## **ADOLESCENT SUICIDE**

Data in the adolescent suicide attempt section were compiled from teen suicide attempt reports and death certificates filed with the Oregon Health Division's Center for Health Statistics. Attempt rates are age-specific and are expressed per 100,000 of the population at risk per year. The Center for Population Research and Census was the source of the population data. References to teenagers include persons 10-19 year-olds. References to adolescents and minors include only Oregonians 17 or younger. Methods of attempt are classified according to the International Classification of Diseases (ICD). The name of the attempter is not recorded on attempts reported to the Health Division.

Several problems are apparent with the data. The first is that the total number of attempts reported is low. Because Oregon is the only state to require that adolescent suicide attempts be reported, when Oregon adolescents attempt suicide in another state, the event is not reported. More significantly, although required by law, the data suggest that not all hospitals are fully cooperating with the program. It is uncertain whether reporting hospitals are using the same criteria in determining whether the patient attempted suicide. Finally, a few data items are poorly reported.

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# Technical Notes — Step-by-Step Instructions

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*"Through and through the world is infested with quantity: To talk sense is to talk quantities. It is no use saying the nation is large—How large? It is no use saying that radium is scarce—How scarce? You cannot evade quantity. You may fly to poetry and music, and quantity and number will face you in your rhythms and your octaves."*

—Alfred North Whitehead

Data users are diverse, including public health officials evaluating a program by using death data, demographers projecting school enrollments with birth data, and business people deciding to open a formal-wear shop based on marriage data. Many of these users

**DEATHS**  
**INFANT DEATHS**  
**NEONATAL DEATHS**  
**POSTNEONATAL DEATHS**  
**FETAL DEATHS**  
**LOW BIRTH WEIGHT**  
**INFANTS**  
**PREGNANCIES**  
**INDUCED ABORTIONS**  
**MARRIAGES**  
**ANNULMENTS**  
**DIVORCES**

have a thorough knowledge of statistics. But others find the entire subject-matter confusing and intimidating. For either group, a misunderstanding of what vital statistics mean can lead to wrong conclusions. Therefore, this section is included to provide an overview of how to use vital statistics. It is addressed to the person looking at vital events for the first time, but the experienced user may also find a review helpful.

## **STEP 1: FINDING THE CORRECT NUMBER**

The first step is to determine how many of a particular vital event took place during the year. This involves asking two questions:

*Which event or events are appropriate?*

This may not be as simple as it sounds. For one thing, examining more than one type of event may be required. For example, someone concerned with teenage pregnancies will have to consider the number of induced abortions as well as the number of births which occur among teens. Taken together, they provide a useful measure of the number of pregnancies.<sup>1</sup>

Deciding which events to use is important since sometimes the choice of one event over another can easily lead to different conclusions. To determine which events are appropriate, read the "Technical Notes: Definitions" section. The narratives also contain useful examples.

*Who should be counted?*

If you are a hospital planner who is deciding to expand or contract delivery services, you want to count the number of births which *occurred* in your area, regardless of where the parents live. If you are projecting school enrollment, you want to count only how many children will potentially be *residing* in your area. Fortunately, vital events are usually reported so that both of these data needs can be met.

**Occurrence data:**

The event (the death, birth, marriage, etc.) actually took place in the geographic region indicated (either Oregon or a particular county). The person participating in the event may have lived in Podunk, New York.

**Residence data:**

The person involved in the event lived in the geographic region mentioned, but the event itself may have taken place anywhere in the United States or Canada. In other words, a resident of Marion County who died in an accident while on vacation in Michigan has been added to the Marion County resident death figure.

When in doubt about which type of data to use, resident figures are usually the best choice. Most birth and death data are published by residence, which means that comparisons with other states or the United States as a whole will be easier. Exceptions to this rule are listed in the individual sections.

Once the right event has been determined, and the choice between occurrence and residence data has been made, the statistician can find the correct figures in the table(s) in this book. If the needed table is not listed, contact the Center for Health Statistics for more information.

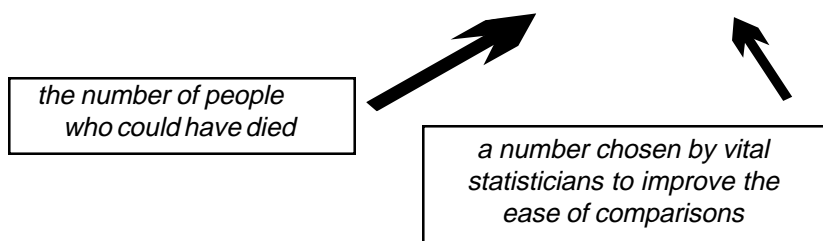
**STEP 2: MAKING THE NUMBER MEANINGFUL WITH RATES AND RATIOS**

In many instances simply knowing the number of events is not sufficient. For example, we know more people died in Multnomah County than in Wheeler County, because Multnomah County has a much larger population. But what is the *likelihood* of dying in each county?

In order to answer this question, statisticians calculate rates. This means that the number of events which occurred is compared to the population for which that event *could* have occurred, and the figure is then standardized to some number (such as 1,000 or 100,000) for convenience.

Here is an example:

$$\text{CRUDE DEATH RATE} = (\text{DEATHS}/\text{POPULATION}) \times 1,000$$



The more specifically a statistician can define the “population at risk” (the denominator or bottom part of the formula), the more meaningful the rate is. For example, the *crude birth rate*, which compares the number of births to the population, is not nearly as informative as the *fertility rate*, which uses only the number of women of childbearing age (15-44) for comparative purposes. The fertility rate is not distorted by changes in the number of men or pre-pubescent or post-menopausal women in the population. (The turn of the century notion that only *married* women between the age of 15 and 44 would be considered at risk of pregnancy has been abandoned for obvious reasons.)

Unfortunately we do not always have the correct denominator for the equation. In these situations a substitute is used. For example, how many people are at risk of getting divorced? The number of married people is only available for census years. As a substitute, the crude divorce rate is calculated using the total population regardless of marital status. In other situations, the event is simply compared to another related number. For instance, the abortion ratio compares the number of abortions to the number of births. This is easier and more accurate than trying to determine the true denominator, which is the total number of pregnant women.

**When calculating rates and ratios, great care must be taken to make certain that the appropriate time periods, geographical boundaries, and populations are used.**

### STEP 3: COMPARING TWO OR MORE NUMBERS

Numbers are more meaningful when they are converted into rates and ratios. But problems can arise when rates or ratios are compared for different geographical areas, different time periods, or different categories such as men versus women.

#### Chance variation

Statisticians expect a certain amount of chance variation and have methods to take this into account. The *confidence interval* uses the number of cases and their distributions to determine what

the rate “really is.” For example, a statistician will say, “We are 95% sure that the *true* infant death rate for Oregon in 1986 was  $9.47 \pm 0.97$ ; that is, it lies somewhere between 8.50 and 10.44.” If two rates have overlapping confidence intervals, then the difference between them may be due to this chance variation. In other words the difference is not *statistically significant*.

**When comparing rates and ratios, differences should be tested for *statistical significance*. Formulas are listed in the next section of this chapter.**

### Small numbers

Chance variation is a common problem when the numbers being used to calculate rates are extremely small. Large swings often occur in the rates which do not reflect real changes. Consider Tillamook County’s infant mortality rates for a five-year period.

TILLAMOOK COUNTY			
YEAR	BIRTHS	INFANT DEATHS	INFANT DEATH RATES
1981	324	5	15.4
1982	318	2	6.3
1983	306	4	13.1
1984	264	1	3.8
1985	266	3	11.3
1981-1985	1,478	15	10.1

The overall rate of 10.1 is quite close to the state rate for the same time period (10.2). Yet, for some years the rate is four times as high as the rate of other years simply because four additional infants died. Public health officials would waste a good deal of energy reacting to these annual rates.

Many rates based on small numbers are published in this book because readers demand them. But, anyone preparing to make important decisions based on these rates should be wary. Consider this rule of thumb: a rate based on 20 cases has a 95% confidence interval about as wide as the rate itself (i.e., the interval for a rate of 50 is between 25 and 75). Even large differences between two rates based on 20 cases or less are probably not statistically significant.

If 20 is too few, how many cases are sufficient to say that a true difference exists? Unfortunately, we have no easy rules for this. To be safe, the vital statistician should always try to combine several years of data or consolidate geographical areas. Confidence intervals should be calculated, and differences should be tested for statistical significance.

### Changes in measurement

Another problem is that the numbers being compared have not always been based on the same type of measurement. Definitions, population estimates, certificates, and coding procedures change from time to time as the need arises. This can create “artificial” differences and can disguise “real” differences. The cause-of-death item provides an excellent example in comparability:

During the late 1970s, approximately 80 to 85 people died each year due to hypertensive disease.	Rate = 3.3 per 100,000 population
In 1979, 250 people died from this cause.	Rate = 9.8 per 100,000 population

It appears that the incidence of hypertensive disease increased. But actually, a new coding scheme resulted in more deaths being coded as due to hypertensive disease.

### Taking age, sex, and race into account

Mr. G.C. Whipple noted in 1923 that, “We might find that the death rate of bank presidents was higher than that of newsboys; but this would not be because of different occupations, but because of different ages.” We expect older people to die at a higher rate than younger people. We also expect people in their twenties to have more babies than the very young or the very old. Sex and race, as well as age, can affect rates drastically.

When comparing two places or two points in time, it is necessary to take these influencing characteristics into account. Here is an example:

The crude death rate increased between 1950 and 1960 from 9.1 to 9.5 deaths per 1,000 population. But, an examination of the death rates for each age group indicates that all these rates decreased. This apparent contradiction is explained by the fact that in 1960 a larger proportion of the population was older. Because the risk of death is higher in older persons, the crude death rate increased.

	1950	1960
<b>Crude Death Rate</b>	9.1	9.5
<b>Age-Specific Death Rates</b>		
0-4	5.9	5.7
5-14	0.6	0.4
15-24	1.5	1.1
25-44	2.4	2.1
45-64	11.1	10.6
65+	58.4	56.8

**Before comparing two places or two time periods, always compare the population characteristics first. If discrepancies are noted in any relevant variables, then the rates should be adjusted or standardized in order to make the comparisons free of differences in the structure of the populations. The formulas for doing this are listed in the following section.**

## STEP 4: ANALYZING THE DATA

The first three steps have been fairly mechanical:

- (1) = Choose the correct events and the correct group to determine the number of events which took place for the geographical areas and time periods.
- (2) = Calculate the rates.
- (3) = Compare these rates to determine if the differences are statistically significant.

*NOW* the vital statistician must begin to ask the difficult questions. If we find that two rates are statistically significantly different, how can we find out *why* they are different? If the differences which we expected did not prove to be significant, is there another item which perhaps is masking an actual difference? Frequently, the statistician has to refine the research question and begin all over again.

Consider the researcher who asks, "Since 1985, has chronic obstructive pulmonary disease posed a greater risk to Oregonians?" If the researcher looked at the overall rate, the answer would be "yes," but closer examination reveals that the death rate for males has declined. It is among women that the rate has moved sharply upward, reflecting their increased smoking prevalence during recent decades. This gender dichotomy would need to be addressed in a study of COPD fatalities.

### Help

Several sources of help are available. Many of the widely used rates and ratios are presented in the Quick Reference section, and narratives and figures are included throughout the book to illustrate changes. And finally, the staff of the Center for Health Statistics are available for data users who need assistance.

## ENDNOTES

- 1 A more complete and accurate estimate of pregnancies based on outcomes would include: (1) births; (2) fetal deaths (stillbirths); (3) induced abortions; and (4) spontaneous abortions (miscarriages). However, fetal deaths occur in less than one percent of all pregnancies and are relatively constant in relation to births (see the *Fetal and Infant Mortality* chapter in Volume 2) and the number of miscarriages which occur is not available in vital records (perhaps 10 percent of all pregnancies). Thus, a measure which excludes these outcomes provides an adequate indicator of the number of pregnancies.

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# Technical Notes — Formulas

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## GENERAL:

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$$\text{PERCENT CHANGE} = \frac{\text{New Data} - \text{Old Data}}{\text{Old Data}} \times 100$$

$$\begin{aligned} \text{Birth rate, Oregon, 1993} &= 13.7 \\ \text{Birth rate, Oregon, 1994} &= 13.6 \end{aligned}$$

$$\text{Percent change} = \frac{13.6 - 13.7}{13.7} \times 100 = -0.7\%$$

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$$1. \text{ (CRUDE) BIRTH RATE} = \frac{\text{Resident Births}}{\text{Population}} \times 1,000$$

$$\text{Oregon, 1994,} = \frac{41,832}{3,082,800} \times 1,000 = 13.6$$

---

$$2. \text{ AGE-SPECIFIC BIRTH RATE} = \frac{\text{Resident Births To Mothers in Age Category}}{\text{Female Population in Age Category}} \times 1,000$$

$$\text{Oregon, 1994, Age 20-24} = \frac{10,999}{104,718} \times 1,000 = 105.0$$

---

$$3. \text{ FERTILITY RATE} = \frac{\text{Resident Births to Mothers Aged 15-44}}{\text{Female Population Aged 15-44}} \times 1,000$$

NOTE: Some publications use the following:  $\frac{\text{All Resident Births}}{\text{Female Population Aged 15-44}}$

$$\text{Oregon, 1994} = \frac{41,659}{682,428} \times 1,000 = 61.0$$

---

$$4. \text{ TOTAL FERTILITY RATE} = \text{The Sum of Age-Specific Birth Rates in 5-Year Categories between 15 and 44} \times 5$$

$$\text{Oregon, 1994} = 5 (51.3 + 105.0 + 115.4 + 78.5 + 30.2 + 6.0) = 1,932.0$$

$$5. \text{ FETAL DEATH RATIO} = \frac{\text{Resident Fetal Deaths (20+ Weeks Gestation)}}{\text{Resident Live Births}} \times 1,000$$

$$\text{Oregon, 1994, Residents} = \frac{224}{41,832} \times 1,000 = 5.4$$

$$\text{FETAL DEATH RATE} = \frac{\text{Resident Fetal Deaths (20+ Weeks Gestation)}}{\text{Resident Live Births} + \text{Resident Fetal Deaths}} \times 1,000$$

$$\text{Oregon, 1994, Residents} = \frac{224}{43,591 + 224} \times 1,000 = 5.1$$

$$\text{PERINATAL DEATH RATE} = \frac{\text{Resident Neonatal Deaths} + \text{Resident Fetal Deaths (20+ Weeks Gestation)}}{\text{Resident Live Births} + \text{Resident Fetal Deaths}} \times 1,000$$

$$\text{Oregon, 1994, Residents} = \frac{148 + 203}{41,566 + 203} \times 1,000 = 8.4$$

*Note: Publications vary in the gestation cutoff for fetal deaths. In addition, some measures employ birthweight in place of gestational age. Fetal and perinatal death rates are based on 1993 year of birth.*

$$6. \text{ ABORTION RATIO} = \frac{\text{Resident Abortions}}{\text{Resident Births}} \times 1,000 \text{ or } \frac{\text{Occurrence Abortions}}{\text{Occurrence Births}} \times 1,000$$

$$\text{Oregon, 1994, Occurrence} = \frac{13,391}{43,591} \times 1,000 = 307.2$$

$$7. \text{ ABORTION RATE} = \frac{\text{Resident Abortions or Occurrence Abortions}}{\text{Female Resident Population Aged 15-44}} \times 1,000$$

$$\begin{array}{l} \text{Oregon 1994, Occurrence} \\ \text{with total adjusted} \\ \text{for not stated ages} \end{array} = \frac{13,300}{682,428} \times 1,000 = 19.5$$

**DEATHS:**

---

$$8. \text{ (CRUDE) DEATH RATE} = \frac{\text{Resident Deaths}}{\text{Population}} \times 1,000$$

$$\text{Oregon, 1994} = \frac{27,361}{3,082,000} \times 1,000 = 8.9$$

---

$$9. \text{ INFANT DEATH RATE} = \frac{\text{Resident Infant Deaths}}{\text{Resident Births}} \times 1,000$$

$$\text{Oregon, 1994} = \frac{295}{41,832} \times 1,000 = 7.1$$

---

$$10. \text{ NEONATAL DEATH RATE} = \frac{\text{Resident Neonatal Deaths}}{\text{Resident Births}} \times 1,000$$

$$\text{Oregon, 1994} = \frac{164}{41,832} \times 1,000 = 3.9$$

---

$$11. \text{ POSTNEONATAL DEATH RATE} = \frac{\text{Resident Postneonatal Deaths}}{\text{Resident Births}} \times 1,000$$

$$\text{Oregon, 1994} = \frac{131}{41,832} \times 1,000 = 3.1$$

---

$$12. \text{ CAUSE- SPECIFIC DEATH RATE} = \frac{\text{Resident Deaths Due to Specific Cause}}{\text{Population}} \times 100,000$$

$$\text{Oregon, 1994, Heart Disease} = \frac{7,417}{3,082,000} \times 100,000 = 240.7$$

---

$$13. \text{ AGE AND SEX- SPECIFIC DEATH RATE} = \frac{\text{Resident Deaths in Age- Sex Category}}{\text{Population in Age- Sex Population}} \times 1,000$$

$$\text{Oregon, 1994, Males Aged 5- 14} = \frac{63}{225,880} \times 1,000 = 27.9$$

**MARRIAGE AND DIVORCE:**

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$$14. \text{ MARRIAGE RATE} = \frac{\text{Marriages}}{\text{Population}} \times 1,000$$

$$\text{Oregon, 1994} = \frac{25,194}{3,082,000} \times 1,000 = 8.2$$

$$15. \text{ DIVORCE RATE} = \frac{\text{Divorces}}{\text{Population}} \times 1,000$$

$$\text{Oregon, 1994} = \frac{15,844}{3,082,000} \times 1,000 = 5.1$$

**CALCULATING CONFIDENCE INTERVALS FOR RATES:**

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To determine the confidence interval for a rate, two numbers are needed: (1) the numerator (the number of events), and (2) the denominator. If the rate is an infant, neonatal, or post-neonatal mortality rate or a rate for a characteristic of births, the denominator is the number of births. Otherwise, the denominator is a population figure. Use this formula:

$$\frac{1,000}{\text{Denominator}} [\text{events} \pm 1.96\sqrt{\text{events}^*}] = \text{rate} \pm \text{confidence interval}$$

\*Note: If comparing rates in which there are more than 100 events (for example, deaths for ages over 65),

$$\text{then } 1.96\sqrt{\text{events}} \text{ should be replaced with: } 1.96 \sqrt{\text{events} \left[ 1 - \left( \frac{\text{event}}{\text{denominator}} \right) \right]}$$

Example: What is the confidence interval for Benton County's low birthweight infant rate for 1994? In 1994, Benton County had 30 out of 760 babies that were born weighing less than 2,500 grams.

$$\begin{aligned} \text{Benton Confidence Interval} &= \frac{1,000}{760} (30 \pm 1.96 \sqrt{30}) \\ &= 1.316 (30 \pm 10.74) \\ &= 39.48 \pm 14.13 \end{aligned}$$

We are 95 percent sure that the 1994 low birth weight rate for Benton County is between 25.35 and 53.61.

**DETERMINING STATISTICAL SIGNIFICANCE FOR RATES:**

---

To determine if the difference between two rates is significant, use the confidence intervals for the rates in this formula:

$$\text{Difference between the two rates} \pm \sqrt{1\text{st confidence interval}^2 + 2\text{nd confidence interval}^2}$$

If the interval obtained from this calculation does *not* include 0, then the difference is statistically significant at the 95 percent level.

---

Example: Is the difference between Benton County's low birthweight rate and the state rate statistically significant?

Based on the formula for confidence intervals:

Oregon low birthweight rate is  $53.21 \pm 2.16$

Benton low birthweight rate is  $39.48 \pm 14.13$

Using the formula for determining statistical significance:

$$(53.21 - 39.48) \pm \sqrt{2.16^2 + 14.13^2}$$

$$13.73 \pm \sqrt{4.67 + 199.66}$$

$$13.73 \pm \sqrt{204.33}$$

$$13.73 \pm 14.29$$

The interval is between -0.56 and 28.02. Since zero does fall between these two numbers, the difference between the low birthweight rates for Benton County and Oregon is not statistically significant.

---

**CALCULATING RATES ADJUSTED FOR SEX/AGE/RACE:**


---

When comparing rates and ratios, the influences of sex, age, and race differences in the populations must be taken into account. Comparing many different age-sex-race specific rates can be cumbersome. The following techniques are used by vital statisticians to summarize these rates into one number.

The *direct adjusted rate* applies each of the specific rates for a particular population (such as a county or an HSA) to a standard population distribution (such as the state).

The *standard mortality ratio* compares the number of deaths for a particular population (such as a county or an HSA) to the number of deaths which would be expected if some standard set of rates (such as the state or the U.S. rates) had occurred.

Each of these techniques has its advantages and disadvantages. The easiest to calculate is the direct adjusted rate. The following example shows how to adjust a county's death rate for sex so that it may be compared to the state rate.

$$\frac{\left[ \frac{\text{county male deaths}}{\text{county male population}} \times \text{state male population} \right] + \left[ \frac{\text{county female deaths}}{\text{county female population}} \times \text{state female population} \right]}{\text{TOTAL STATE POPULATION}} \times 1,000$$

The same logic can be used to adjust for age and/or race.

---

**REFERENCES:**

For further information about calculating confidence intervals and adjusting rates, see:

National Center for Health Statistics: Infant Mortality, by J. C. Kleinman, Statistical Notes for Health Planners, No. 2. Health Resources Administration, Washington, D.C., July 1976.

National Center for Health Statistics: Mortality, by J. C. Kleinman, Statistical Notes for Health Planners, No. 3. Health Resources Administration, Washington, D.C., July 1977.

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