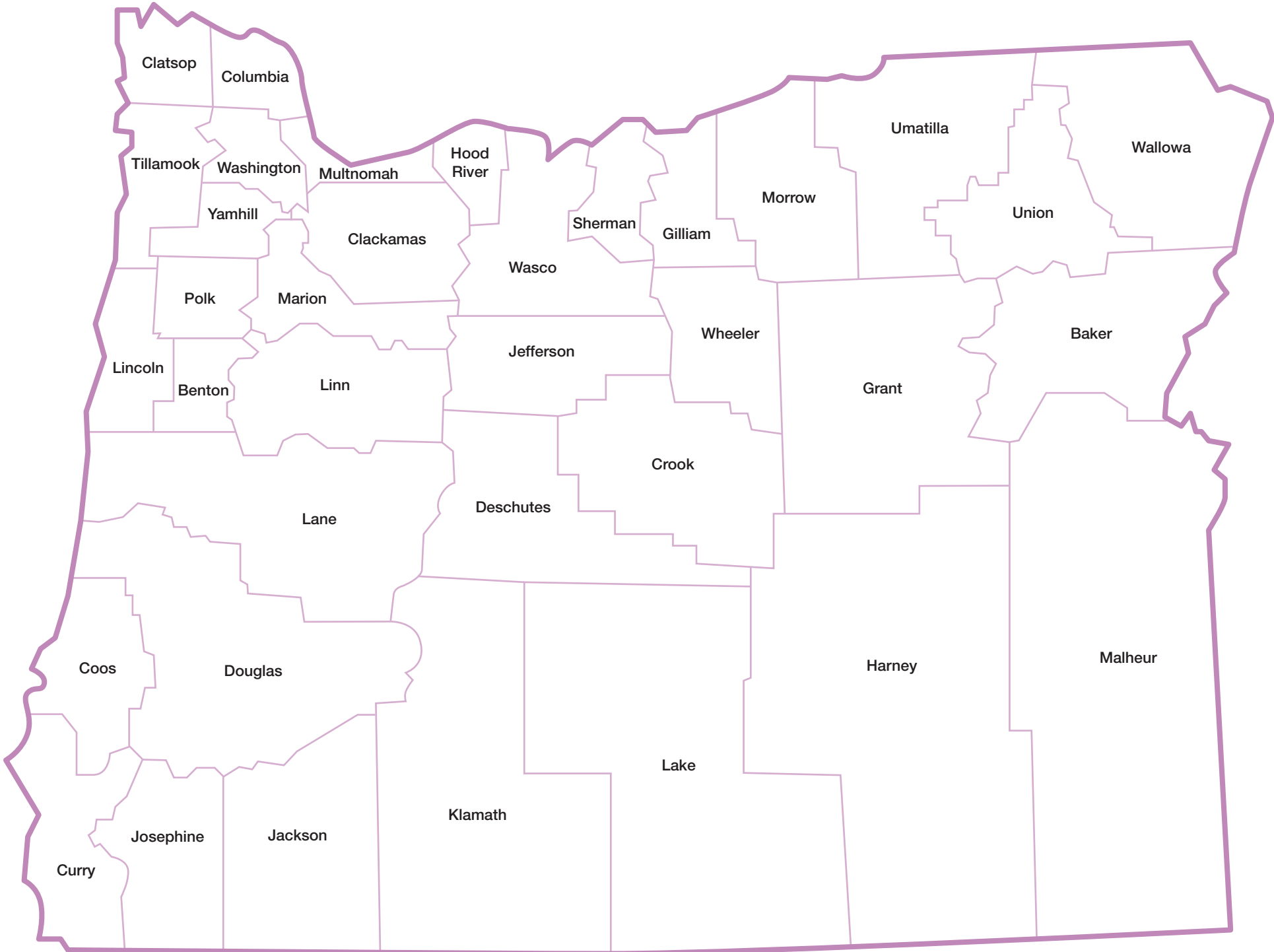

Oregon
Vital Statistics
Annual Report
1998
Vol. 2





Clatsop

Columbia

Tillamook

Washington

Multnomah

Hood River

Yamhill

Clackamas

Sherman

Gilliam

Morrow

Umatilla

Wallowa

Union

Polk

Marion

Wasco

Jefferson

Wheeler

Baker

Lincoln

Benton

Linn

Grant

Crook

Lane

Deschutes

Harney

Malheur

Coos

Douglas

Lake

Klamath

Curry

Josephine

Jackson

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Volume 2

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Center for Health Statistics

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Preface

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.

The only marriage and divorce data published in the report are statewide occurrences and rates. Information by county and by month of occurrence is available, as are a variety of year-to-date preliminary data on deaths, births, abortions, and teen pregnancy, at the Center for Health Statistics web page: <http://www.ohd.hr.state.or.us/chs/welcome.htm>. Additional data is available in the form of simple cross-tabulations. For information on availability or to request data, call 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, 1998

Population	3,267,550	Population increased 50,500 or 1.6 percent over 1997.
Deaths Number Rate	Residents 29,346 9.0	Number of deaths increased by 596. Rate increased by 1.1 percent.
Infant Deaths Number Rate	Residents 246 5.4	Number of infant deaths decreased by 10. Rate decreased by 6.9 percent.
Neonatal Deaths Number Rate	Residents 143 3.2	Both the number and rate decreased.
Maternal Deaths Number Ratio	Residents 5 11.1	Oregon's average maternal death rate for 1994-1998 (7.4) is slightly lower than the U.S. rate during for 1994-1998 (7.7).

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., 1945-1998

Year	Deaths		Maternal Deaths ¹		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., 1945-1998 (Continued)

Year	Deaths		Maternal Deaths ¹		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
1998	2,338,070	8.7	281	7.1	28,496	7.2	18,832	4.8	*	*

Rate per 1,000 population for deaths.

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

¹ 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: Births & Death Preliminary Data for 1998, National Vital Statistics Reports. Vol. 47, No. 25. Website April 28, 2000. 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.

* Not available.

TABLE 5-2.
Deaths, Maternal Deaths, Infant Deaths, Neonatal Deaths and Fetal Deaths,
Oregon, 1908-1998

Year	Deaths		Maternal Deaths ¹		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, 1908-1998 (Continued)

Year	Deaths		Maternal Deaths ¹		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
1998	29,346	8.9	5	11.1	246	5.4	143	3.2	208*	4.6*

- Data not available.

* Incomplete total.

Rate per 1,000 population for deaths.

¹ 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.

* The definition of fetal death changed effective in 1998 data reporting.

TABLE 5-3.
Deaths, Infant Deaths, Neonatal Deaths, and Fetal Deaths,
by County of Residence, Oregon, 1998

County of Residence	Deaths		Infant Deaths		Neonatal Deaths		Fetal Deaths	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Total	29,346	9.0	246	5.4	143	3.2	208	4.6
Baker	210	12.6	-	-	-	-	3	16.3
Benton	464	6.1	4	5.0	3	3.7	4	5.0
Clackamas	2,532	7.8	23	5.5	15	3.6	13	3.1
Clatsop	367	10.6	1	2.5	-	-	1	2.5
Columbia	337	8.0	2	3.7	2	3.7	3	5.6
Coos	817	13.3	2	3.2	1	1.6	1	1.6
Crook	166	10.0	1	4.3	1	4.3	2	8.5
Curry	324	14.7	2	11.8	-	-	-	-
Deschutes	873	8.3	9	6.6	7	5.1	11	8.0
Douglas	1,154	11.5	9	7.9	5	4.4	1	0.9
Gilliam	15	7.1	-	-	-	-	-	-
Grant	88	11.0	1	11.4	1	11.4	-	-
Harney	88	11.6	1	10.5	1	10.5	-	-
Hood River	156	8.0	1	3.5	-	-	-	-
Jackson	1,753	10.1	13	6.1	8	3.8	13	6.1
Jefferson	152	8.7	2	6.6	2	6.6	3	9.9
Josephine	993	13.6	9	11.0	6	7.4	5	6.1
Klamath	661	10.7	7	8.2	3	3.5	3	3.5
Lake	70	9.5	-	-	-	-	-	-
Lane	2,908	9.3	24	6.4	17	4.5	19	5.1
Lincoln	545	12.6	5	11.8	3	7.1	7	16.5
Linn	990	9.7	6	4.0	4	2.7	10	6.7
Malheur	295	10.1	7	13.1	3	5.6	2	3.7
Marion	2,406	8.8	19	4.2	9	2.0	31	6.8
Morrow	79	8.4	-	-	-	-	-	-
Multnomah	5,702	8.9	42	4.5	22	2.4	48	5.2
Polk	493	8.3	1	1.4	-	-	3	4.2
Sherman	22	11.6	-	-	-	-	-	-
Tillamook	291	12.1	2	8.5	1	4.3	-	-
Umatilla	534	8.0	8	7.8	4	3.9	3	2.9
Union	234	9.6	-	-	-	-	3	10.8
Wallowa	90	12.5	1	17.5	1	17.5	-	-
Wasco	263	11.6	2	6.4	2	6.4	1	3.2
Washington	2,581	6.5	33	4.8	18	2.6	15	2.2
Wheeler	13	8.1	-	-	-	-	-	-
Yamhill	680	8.3	9	7.8	4	3.4	3	2.6

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	1,000 females age 10-17	1998	17.2	15.0
44	Percentage of babies whose mothers received early prenatal care (beginning in the first trimester)	100 live births	1998	80.2	90.0
45	Infant mortality rate	1,000 live births	1998	5.4	6.0
46	Percentage of two-year olds who are adequately immunized	percent	1998	76.0	90.0
47	Annual percentage of new HIV cases with an early diagnosis (before symptoms occur)	% of positive cases	1998	73.1	85.0
48	Percentage of adults who do not currently smoke tobacco	percent	1998	78.3	81.0
49	Premature mortality: Years of potential life lost before age 70	1,000 population age 0-69	1998	56.7	57.4
50	Percentage of adults whose self-perceived health status is very good or excellent	percent	1998	57.4	65.0
52a	Percentage of pregnant women who abstain from using alcohol	percent	1998	98.4	98.0
52b	Percentage of pregnant women who abstain from using tobacco	percent	1998	84.8	85.0
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	1998	90.0	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, excluding missing and unknown values.
- 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 (≥ 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 (≥ 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 not using alcohol during pregnancy divided by the total number of resident live births, excluding missing and unknown values.
- 56b Source: Birth Certificate Statistical File. Resident live births whose mothers reported not using tobacco during pregnancy divided by the total number of resident live births, excluding missing and unknown values.
- 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 Environment and 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 1998, Oregon's death rate changed little from the preceding year, increasing 0.5 percent to 898.4 per 100,000 population, up from 893.7. For the past six years the rate has fluctuated between 888 and 909 per 100,000 population. [Figure 6-1; Table 6-3]. During 1998, 29,346 Oregonians died, 596 more than the previous year.

Record high death rates were recorded for several of the leading causes: Parkinson's disease (up 27.3% to 8.4 per 100,000 population, Alzheimer's disease (up 10.8% to 24.7), diabetes mellitus (up 4.7% to 26.6), and suicide (up 4.2% to 17.4). Among these, all but suicide have shown strong and consistent increases in death rates since the mid-1980s. Record low death rates were recorded for arteriosclerosis (down 5.4% to 7.0 per 100,000 population) and heart disease (down 4.5% to 222.7). And, although not a record low, the rate for AIDS declined 24.1 percent to 2.2, its lowest rate since 1986.

Between 1997 and 1998, the age-specific death rates increased for both males than females and for all age groups except 0- to 4-year-olds and 45- to 64-year-olds. Males have consistently had higher death rates than females, but the gap is narrowing. A generation earlier, the rate for males was 33 percent higher; by 1998 it was just 1.5 percent higher. The median age of Oregonians at death remained at 78 years, 81 for females and 75 for males. On average, an Oregonian died every 18 minutes during 1998.

Oregon's 1998 crude death rate for all causes combined was somewhat higher than the nation's. However, its 1998 age-adjusted death rate was 4.3 percent lower than the nation's. [Table 6-42].¹

An Oregonian died every 18 minutes.

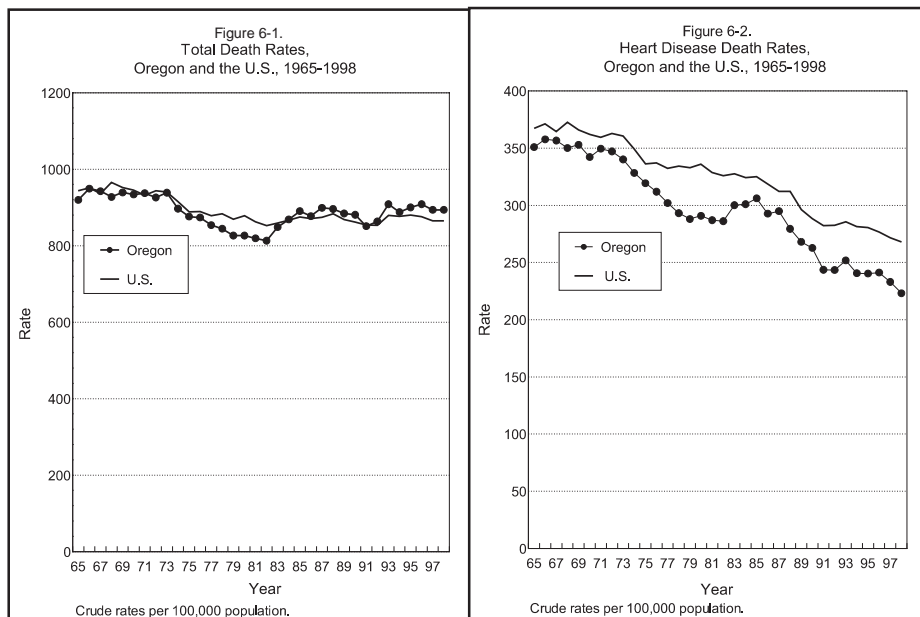
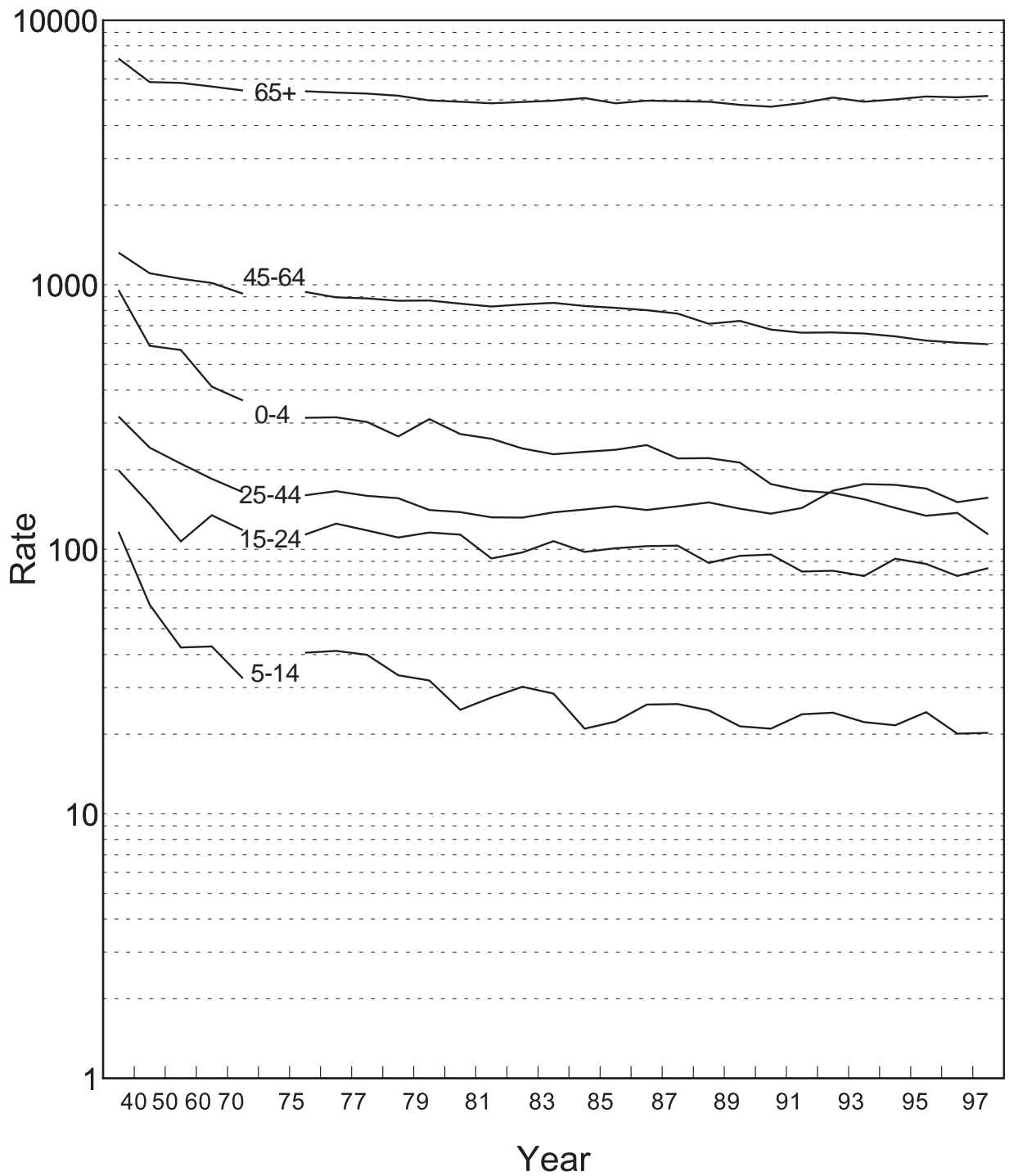
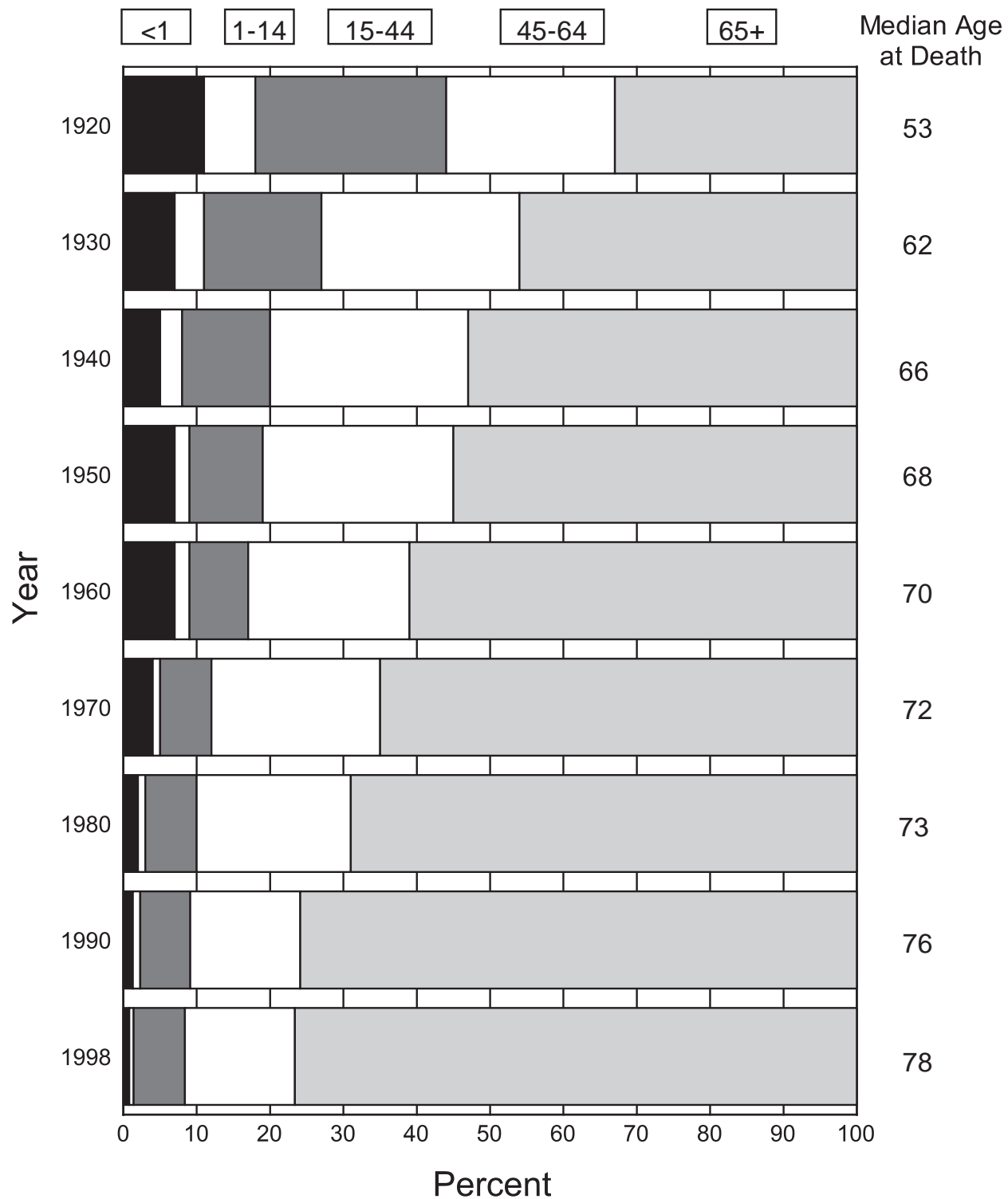


Figure 6-3.
Age-Specific Death Rates,
Oregon Residents, 1940-1998



Rates per 100,000 population.

Figure 6-4.
Proportion of Deaths by Selected Age Groups,
Oregon Residents, 1920-1998



(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.)

HEART DISEASE

Heart disease continued to be the leading cause of death in Oregon, accounting for one of every four resident deaths. The near-continual annual declines seen over the past several decades essentially ceased during the early 1990s resuming only in 1997. The death rate (222.7 per 100,000 population) is now 15 percent lower than was in 1990 and 20 percent lower than was in 1988.² [Figure 6-2; Table 6-3].

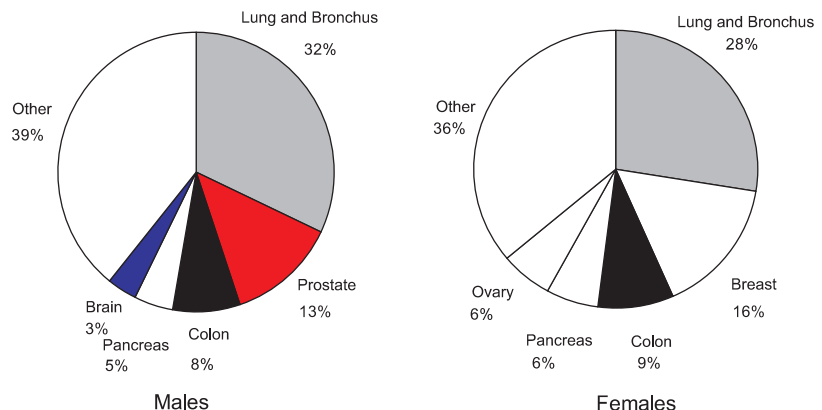
As with many causes of death, the heart disease mortality rate was higher among males than females. This disparity narrowed during the latter half of the twentieth century, however. [Table 6-2]. During the most recent 10-year period, the difference fell by half. In 1988, the rate for males was 14 percent higher than that for females; by 1998, the male rate was just 6.4 percent higher than the female rate. Heart disease is the leading killer of Oregonians 75 or older. The median age for the 7,276 Oregonians who died from this cause was 80 years.

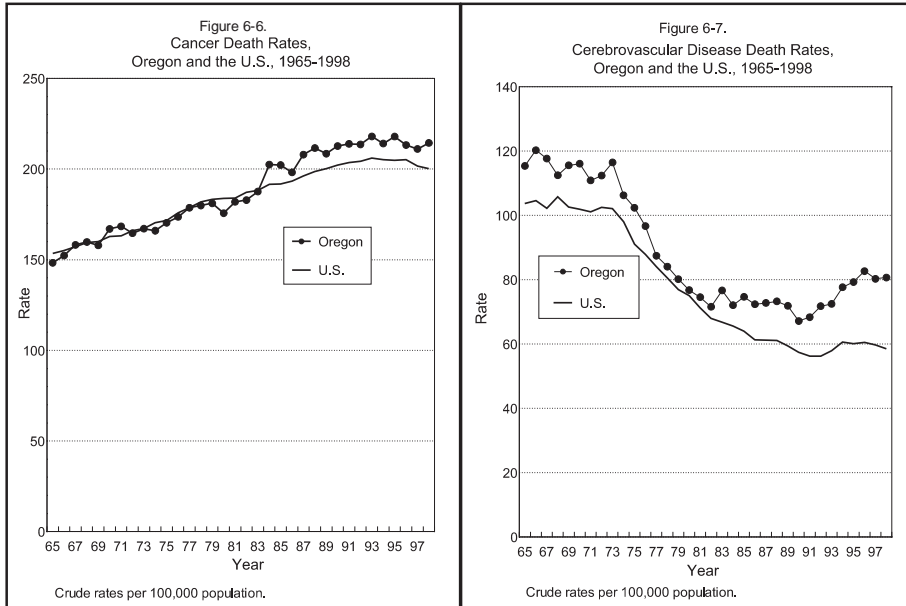
Oregon's rate has consistently been lower than the U.S. rate; in 1998, the state's age-adjusted death rate was 22 percent lower than the nation's. [Table 6-42]. An Oregonian died of heart disease every 72 minutes.

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, occlu-

Over the past two decades the proportion of deaths due to heart disease declined from one in three to one in four.

Figure 6-5.
Distribution of Malignant Neoplasms
by Sex and Site, Oregon Residents, 1998





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

sions, and thromboses are acute, often terminal events, while coronary heart disease is a chronic condition.

MALIGNANT NEOPLASMS

During the 1960s through the 1980s, the Oregon cancer rate rose relentlessly. That trend may be in remission; the only clear trend during the 1990s is that there is no consistent upward or downward movement. This may represent a plateauing of the death rate. During 1998, the death rate was 214.4 per 100,000 population, about midway between the range of values seen during the 1990s and only marginally higher than the rate recorded the previous year (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 1998 the median age at death for cancer patients remained at 73, the highest ever recorded. The death rate for males was 7.8 percent higher than that for females (222.6 versus 206.4), with the disparity greatest among the elderly. Although at lower overall risk from fatal cancer, women ages 35-54 were more likely to die from cancer than were their male counterparts. In addition to the cancer-caused deaths of 7,007 Oregonians, cancer contributed to another 878 deaths where it was not the underlying cause. [Table 6-35].

The decades-long upward trend in cancer mortality was 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 1998 the ratio declined to 1.3 to 1.0. The total lung cancer death rate has more than quintupled since 1950, increasing from 11.6 to 63.2 per 100,000 Oregonians. (This has

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
1998	63.2	71.3	55.2

Rates per 100,000 population.

been accompanied by a sharp increase in chronic obstructive pulmonary disease deaths, as well.)

During 1998, record low death rates were recorded for rectal and cervical cancer. There were no record highs.

Oregon's age-adjusted cancer death rate was nearly identical to the nation's during 1998, just 0.1 percent lower. Cancer claimed the life of an Oregonian every 75 minutes.

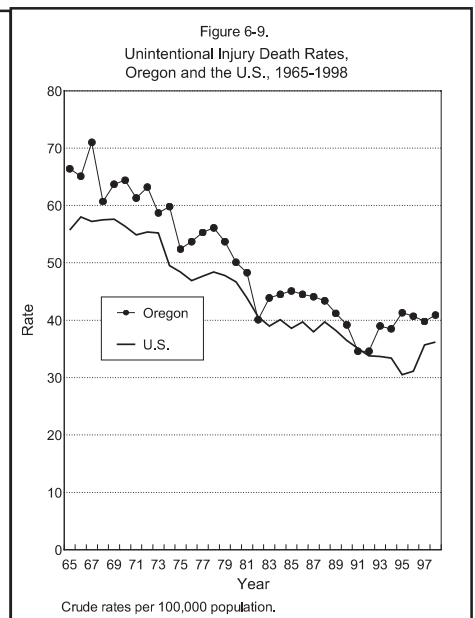
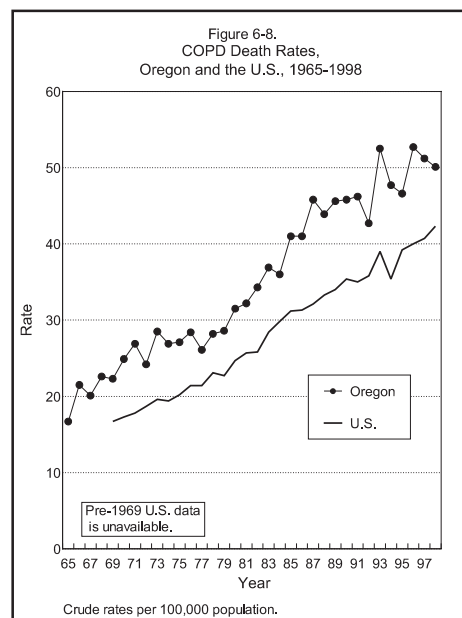
CEREBROVASCULAR DISEASE

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]. The rate declined to 80.3 in 1997 and remained essentially unchanged at 80.7 during 1998. Nearly every age group has witnessed an increase in cerebrovascular disease death rates since the beginning of the decade. Besides the 2,636 deaths due to cerebrovascular disease, these conditions contributed to the deaths of another 1,503 Oregonians. [Table 6-35].

Cerebrovascular disease was the third most common cause of death among Oregonians, and struck females far more often than males (97.6 vs. 63.4). However, males 45-74 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 1998 rate was 18 percent higher than the U.S.

Since 1990, the cerebrovascular disease death rate has increased 20 percent.



rate and ranked ninth highest among the states. An Oregonian died from cerebrovascular disease every 3.3 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 currently the fourth leading cause of death. During 1998, the death rate declined marginally to 50.1 per 100,000 population from its record high of 52.7 recorded in 1996. [Figure 6-8; Table 6-3]. The median age at death remained at 77, a record high.

Just ten years ago, there was a distinct, gender difference in the risk of death from COPD. In 1988, males were 48 percent more likely to die from this cause than were females, but by 1998, they were only 2.4 percent more likely to do so. The vast majority of COPD deaths are caused by tobacco use and 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. In addition to the 1,638 Oregonians whose deaths were due to chronic obstructive pulmonary diseases, COPD was a factor in another 1,916 deaths. [Table 6-35].

During 1998, Oregon’s age-adjusted COPD death rate was 12 percent higher than the U.S. rate. An Oregonian died from chronic obstructive pulmonary disease every 5.3 hours. Most of these deaths were preventable.

UNINTENTIONAL INJURIES

Until the early 1980s, Oregon’s unintentional injury³ 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]. Subsequently, the rate trended upward reaching 41.3 in 1995 and has since remained around 40 per 100,000. In 1998 the rate was 40.9. 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 (1,337), 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

COPD Death Rates		
Year	Male	Female
1988	52.0	36.1
1998	50.7	49.5
% Change	-2.5	+37.1

Rates per 100,000 population.

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

Most unintentional poisoning deaths were overdoses of illicit drugs.

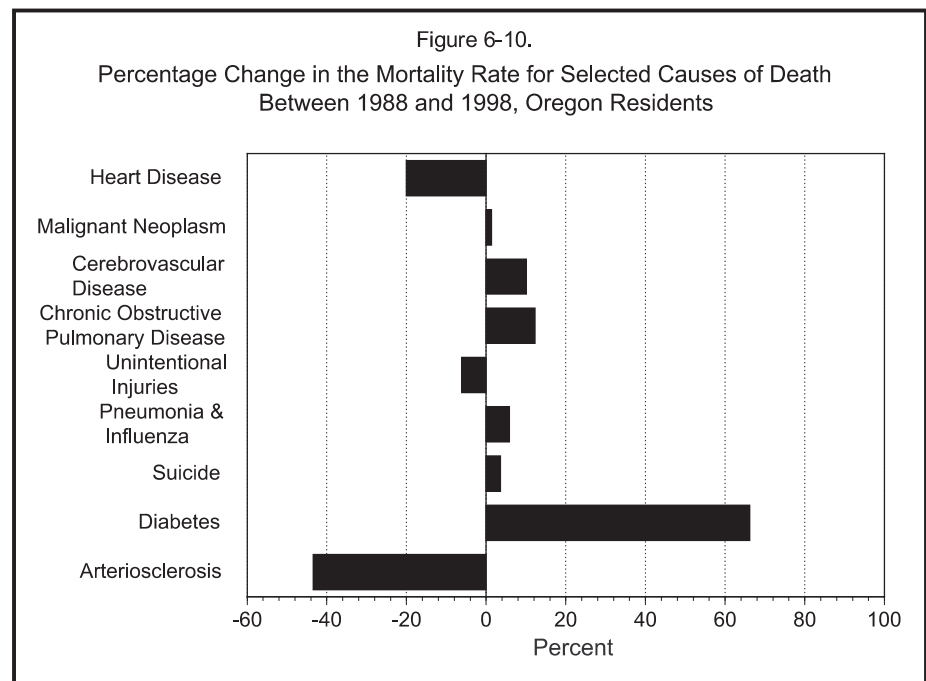
from any other cause. [Table 6-25]. Cancer and heart disease ranked second and third, respectively.

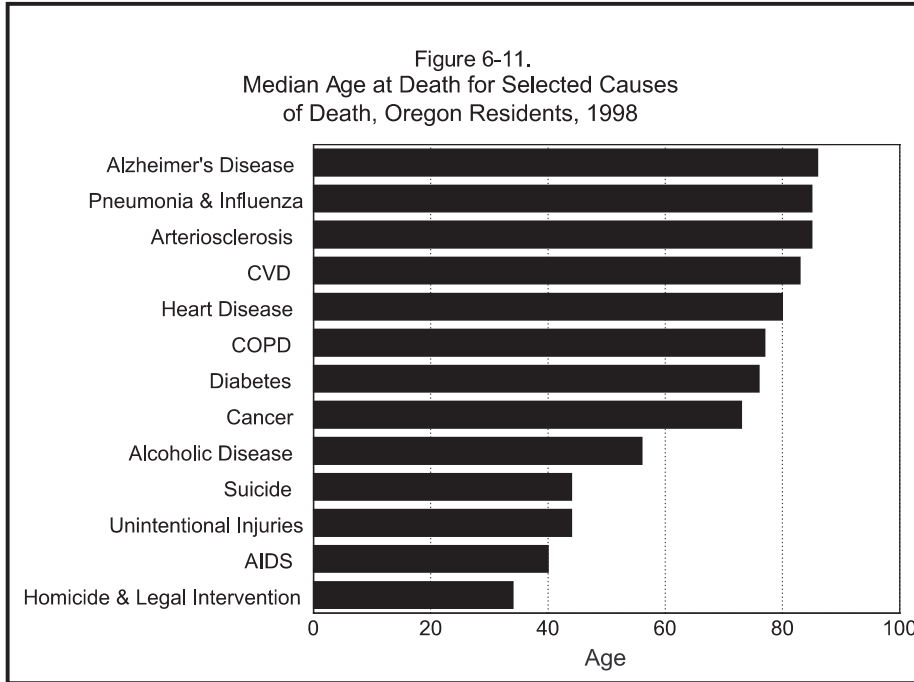
Motor vehicle-related deaths (545) accounted for 41 percent of all unintentional injury deaths; over half (58%) of the decedents were 15-44 years old. (One in eight of the deaths involving motor vehicles were of pedestrians. [Table 6-16].) Falls, the second most common type of fatal unintentional injury, claimed 278 Oregonians. The death rate for falls rose to 8.5 in 1998, a record high and likely a reflection of the aging population; 79 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 1998, 66 fatal unintentional injuries were sustained in the workplace.⁴ [Table 6-14]. Summer is the season of greatest risk, with more residents dying from unintentional injuries during August than any other month.

Oregonians continued to be more apt to suffer a fatal unintentional injury than the average American. During 1998, the state's age-adjusted rate exceeded the U.S. rate by 16 percent. An Oregonian died as a consequence of an unintentional injury every 6.6 hours.

PNEUMONIA AND INFLUENZA

The death rate for the sixth leading cause of death, pneumonia and influenza, increased 9.2 percent during 1998 to 30.9 per 100,000 population. As is typical, the 1998 mortality rate for pneumonia and influenza was higher for females than males (33.3 versus 28.5). This is the fifth leading cause of death among Oregonians 75 or older.





Besides the 1,010 deaths attributed to pneumonia and influenza, these infections played a role in another 1,234 deaths. [Table 6-35]. Oregon's 1998 age-adjusted mortality rate was 21 percent lower than the national rate and fourth lowest among the states and the District of Columbia. A resident died of pneumonia or influenza every 8.7 hours in 1998.

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 1998, the rate had more than doubled (26.6 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 1998, diabetes caused 870 deaths and contributed to another 1,935. [Tables 6-3 and 6-35]. Other than the ever 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 had been markedly lower than the nation's, but with the increases during recent years the gap narrowed; by 1998 the state's age-adjusted death rate was higher than the U.S. rate, although by just 0.7 percent. An Oregonian died of diabetes every 10.1 hours in 1998.

ALZHEIMER'S DISEASE

Alzheimer's disease (including Alzheimer's dementia) has been reported with increasing frequency during the past decade and

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

During the past decade, the Alzheimer's disease death rate has doubled and now ranks third highest nationally.

Oregon's death rates for certain neurological disorders rank among the highest in the nation		
Cause	Rank*	% Diff.*
Alzheimer's	3	+54
Parkinson's	2	+56
ALS**	3	+36
* Highest to lowest among the 50 states and the District of Columbia.		
+ Between Oregon's age-adjusted death rate and the nation's.		
** Amyotrophic Lateral Sclerosis, or Lou Gehrig's Disease.		

ranked eighth among the leading causes of death during 1998. After brief pause during 1997, the death rate for this cause resumed its upward trend, increasing from 22.3 per 100,000 population to 24.7 in 1998. Women remained more than twice as likely as men to die from Alzheimer's disease; the rates were 33.2 and 15.9, respectively. [Table 6-2]. Alzheimer's was the sixth leading killer of women and ninth of men. This devastating disorder takes years to claim its victims' lives; nine in ten of the deaths occurred after the decedent's 75th birthday. [Table 6-6]. Besides the 806 deaths due to this cause, Alzheimer's disease contributed to 492 deaths. [Table 6-35].

This state's Alzheimer's disease death rates have historically been higher than the nation's; Oregon's 1998 rate was 54 percent higher and ranked third highest among the states and the District of Columbia. [Table 6-42]. An Oregonian died from Alzheimer's disease every 10.9 hours. For further information on Alzheimer's disease in Oregon, see *Oregon Health Trends*, Number 52.

The suicide rate hit a record high during 1998.

SUICIDE

Despite the economic good times, Oregonians committed suicide at a record pace during 1998: 569 Oregonians (17.4 per 100,000 population) killed themselves. (Note that residents choosing "Death with Dignity" [Measure 16] are not counted here.) Although often exhibiting considerable variation from year to year, the long-term trend of the suicide rate in recent decades has been gradually 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.)

Suicide was the seventh leading cause of death among males; they were four times more likely to kill themselves than were females (28.0 versus 7.0 per 100,000). Male suicide rates have consistently been high in older age groups, with the rate two to three 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. However, in recent years women 80 or older have shown an increasing likelihood of suicidal behavior.

The youngest Oregonian to commit suicide was an 11 year old boy (who hanged himself) and oldest a 96 year old man (who shot himself with a handgun). 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 (59%) of completed suicide, followed by poisoning (16%) and hanging (15%). The method varied within different age and sex cohorts, however. [Table 6-17].

As in years past, the 1998 age-adjusted rate for Oregon was substantially higher (43%) than for the U.S.; Oregon's rate ranked tenth highest nationally. An Oregonian took his or her own life every

Six in ten suicides are committed with firearms.

15.4 hours in 1998. For additional information on suicide, see *Suicide and Suicidal Thoughts by Oregonians*, and *Youth Suicide: Results from the 1999 YRBS*, recently published reports by the Center for Health Statistics.

ALCOHOLISM

In 1998 the Oregon alcoholism⁵ death rate was 12.1 per 100,000 population. Since 1988, 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 1998, alcoholism was the eleventh leading cause of death overall, but ranked fourth among Oregonians 45-54. [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; in 1998 their death rates were 15.7 and 7.6, respectively.

A total of 380 deaths were directly due to alcoholism and related disorders, with alcoholic liver disease accounting for the majority (64%). In addition, alcohol-related diseases were reported as contributing to another 287 deaths. [Table 6-35]. Alcoholism often led to early death; one-half of all those who died from it succumbed by age 56, the lowest median age at death for this cause ever recorded.

During 1998, Oregon's age-adjusted death rate was 37 percent higher than the nation's, and ranked ninth among the 50 states and District of Columbia.⁶ A non-injury alcohol-caused death occurred every 23.1 hours in Oregon.

PARKINSON'S DISEASE

During 1998, the Parkinson's disease death rate resumed its upward climb, increasing 27 percent over the previous year to 8.4 per 100,000 population. [Table 6-3]. The death rate is now 75 percent higher than it was in 1988. As usual, Oregon men were more likely than women to die from this disease; the rates were 10.1 and 6.7, respectively. [Table 6-2]. A small number of middle-aged residents died from Parkinson's disease, but nine in ten of the deaths occurred to residents 75 or older. [Table 6-6]. For additional information, see *Oregon Health Trends*, Number 52.

The state's age-adjusted death rate for this cause was the second highest in the nation during 1998, with residents 56 percent more likely to die from this debilitating disease. (Besides having very high death rates for Alzheimer's and Parkinson's diseases, Oregon's ALS death rate was also elevated, ranking third highest nationally.) The 275 deaths in 1998 represent the loss of an Oregonian every 1.3 days.

ARTERIOSCLEROSIS

The arteriosclerosis death rate continued its long-term downward trend in 1998, falling to yet another record low. The rate (7.0

One half of all alcoholism deaths occurred by age 56, the youngest age ever recorded.

Oregon's Parkinson's disease death rate was the second highest in the nation.

The arteriosclerosis death rate fell to another record low.

per 100,000 population) is now half of what was in 1988. (In that year, arteriosclerosis was the ninth leading killer of Oregonians; a decade later, it ranked thirteenth. [Table 6-23].) Nonetheless, in 1998, Oregon's age-adjusted death rate was 26 percent higher than the U.S. rate and ranked ninth highest nationally.

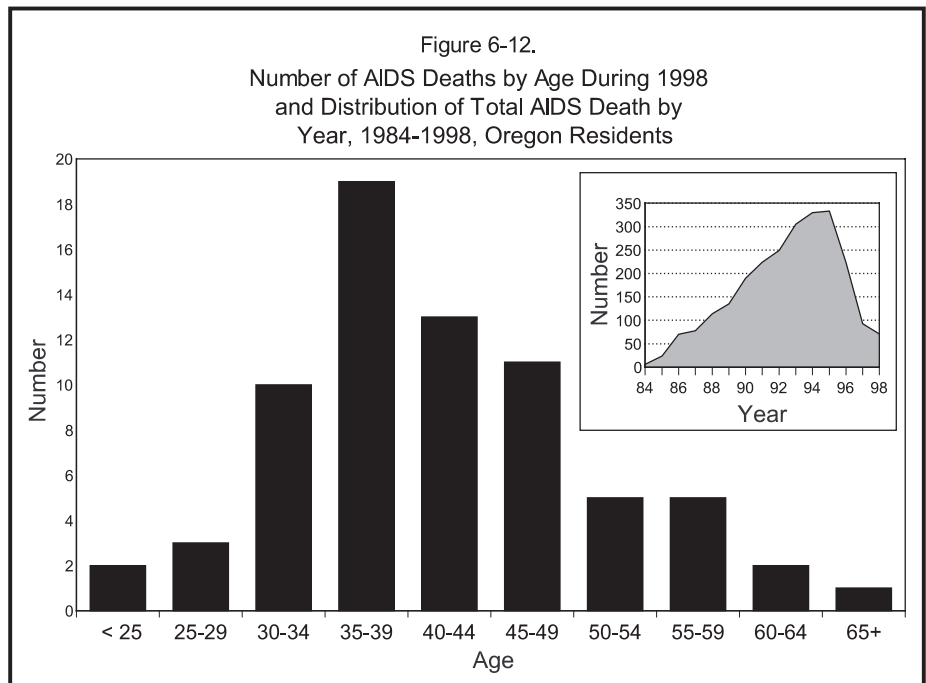
Women typically bear the greater risk, and that was so in 1998; their death rate was 8.1, compared to 5.9 for men. [Table 6-2]. An Oregonian died from arteriosclerosis every 1.6 days in 1998. Note, however, that these figures do not include all deaths involving arteriosclerosis, since many have been classified under more specific manifestations of cardiac and cerebral disease. Arteriosclerosis was listed as the underlying cause of death for 228 Oregonians but contributed to the deaths of another 882 residents.

HOMICIDE

In 1994, the homicide death rate was 6.0 per 100,000 population. In each subsequent year the death rate declined ultimately reaching 4.1 per 100,000 population in 1997, a near record low. In that year, Oregonians were a third less likely to be a homicide victim than they were just a few years earlier. Most recently, however, homicide rate showed a slight uptick to 4.3. (The highest rate ever recorded, 6.8, occurred in 1986. [Table 6-3].) Eight of the 142 homicide deaths resulted from legal intervention. [Table 6-17].

Males were more apt to be murdered than females; their death rate was over two times higher, 6.0 compared to 2.7. [Table 6-2]. Even the youngest Oregonians were at risk: eight children who had not yet reached their fifteenth birthday were murdered during 1998. The median age at death was 32 years. [Figure 6-11; Table 6-13].

Oregonians are a third less likely to be murdered compared to other U.S. residents.



Firearms were used in two of every three homicides; most were handguns. [Table 6-17].

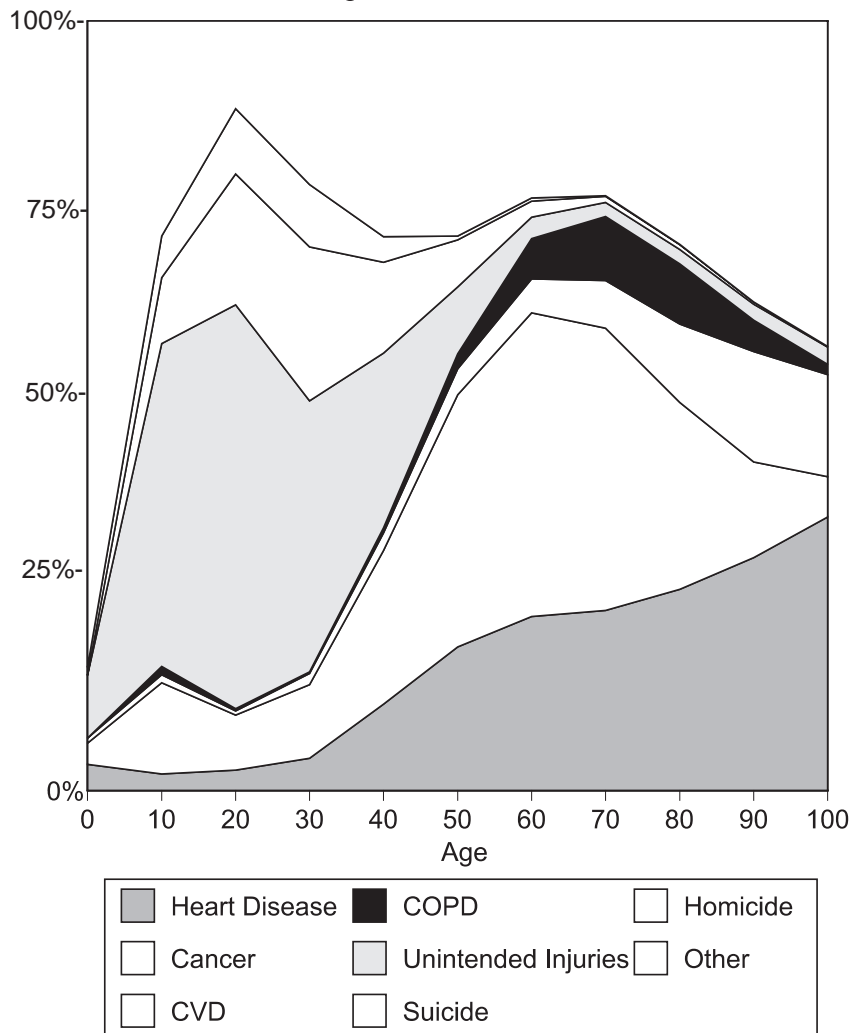
Oregonians have long been at less risk of being murdered than the average U.S. resident. In 1998, Oregon's age-adjusted homicide rate was 35 percent lower than the nation's. Even so, an Oregonian was murdered every 2.6 days.

AIDS

In 1994 the AIDS death rate peaked at 10.7 per 100,000 population. Since then, the death rate has fallen annually and now stands at 2.2, a 79 percent reduction. This is the lowest rate recorded since 1986. [Table 6-3]. Much of this decline can be attributed to the powerful new AIDS drug "cocktails" that are saving lives. Patients

The AIDS death rate has fallen to a level not seen since 1986.

Figure 6-13.
Percentage of Deaths by Cause and Age
Oregon Residents, 1998



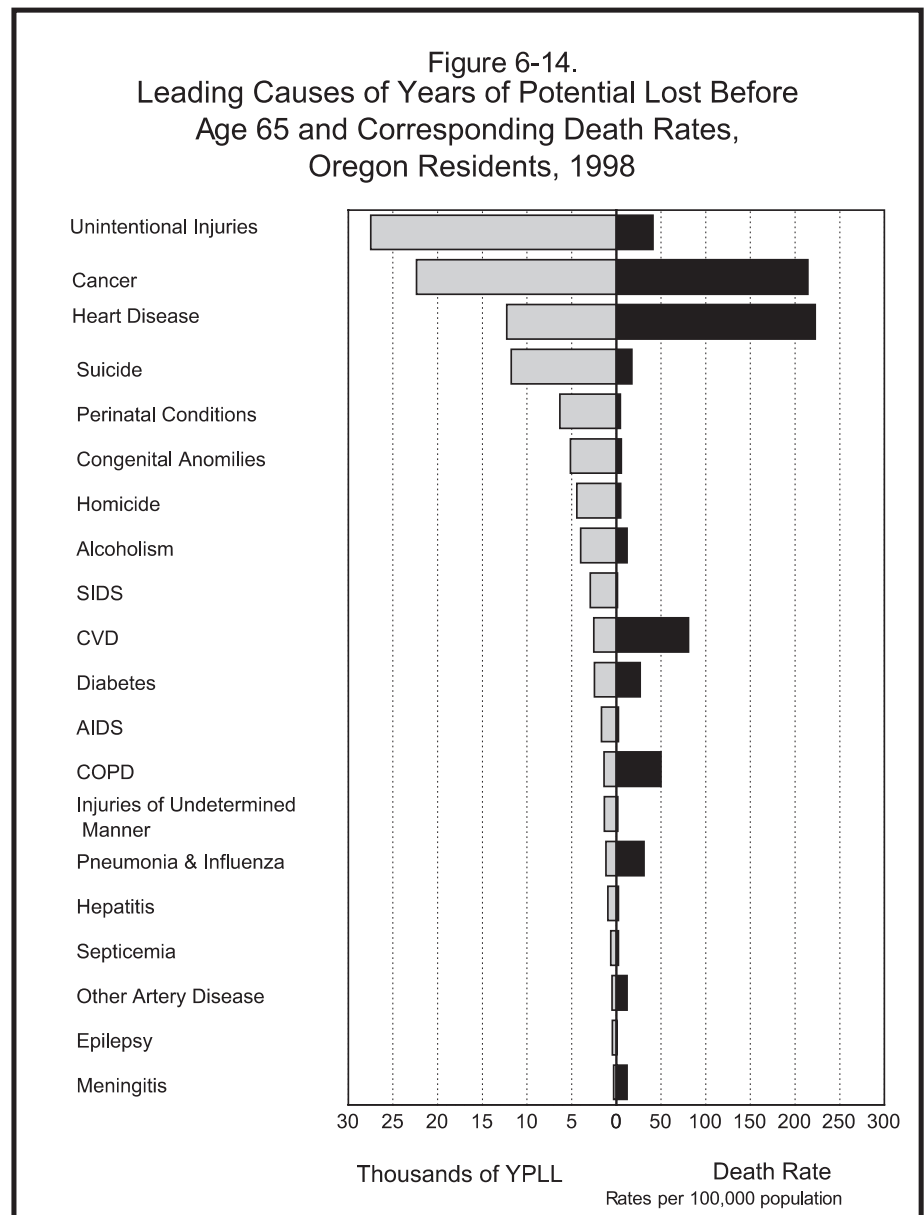
The oldest Oregonian to die in 1998 was a 107 year old woman who died from congestive heart failure.

now commonly receive more than one anti-retroviral drug plus a protease inhibitor.

Nearly all (67 or 94%) of the decedents during 1998 were males, but four were females. [Table 6-6]. Most deaths (63%) occurred among Oregonians 25 to 44 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 is at a near record high: 40 years. [Table 6-13]. In addition to the 71 deaths directly due 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 65 percent less likely to die from AIDS during 1998 than were Americans as a whole. An Oregonian died from AIDS every 5.1 days.

Figure 6-14.
Leading Causes of Years of Potential Lost Before Age 65 and Corresponding Death Rates, Oregon Residents, 1998



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 1998 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.
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, 1990-1998

Year and Sex	Total	Age Groups					
		0-4	5-14	15-24	25-44	45-64	65+
1940 Deaths	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
1950 Deaths	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
1960 Deaths	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
1970 Deaths	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
1980 Deaths	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
1985 Deaths	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
1990 Deaths	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
1991 Deaths	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
1992 Deaths	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
1993 Deaths	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
1994 Deaths	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
1995 Deaths	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
1996 Deaths	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
1997 Deaths	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
1998 Deaths	898.1	135.9	20.2	84.9	156.5	596.1	5,172.4
Male	905.0	150.1	23.3	121.4	211.3	724.4	5,585.0
Female	891.4	121.1	17.0	46.1	101.1	470.6	4,864.5

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, 1998

Males				
Rank	Cause of Death	Number	Rate	Percent
Total		14,627	905.0	100.0
1	Heart Disease*	3,707	229.4	25.3
2	Cancer	3,598	222.6	24.6
3	Cerebrovascular Disease	1,024	63.4	7.0
4	Unintentional Injuries	892	55.2	6.1
5	Chronic Obstructive Pulmonary Disease	820	50.7	5.6
6	Pneumonia & Influenza	460	28.5	3.1
7	Suicide	453	28.0	3.1
8	Diabetes	382	23.6	2.6
9	Alzheimer's Disease and Dementia	257	15.9	1.8
10	Alcoholic Disease	254	15.7	1.7
11	Other Diseases of the Arteries	226	14.0	1.5
12	Parkinson's Disease	164	10.1	1.1
13	Nephritis & Nephrosis	98	6.1	0.7
14	Homicide & Legal Intervention	97	6.0	0.7
15	Arteriosclerosis	95	5.9	0.6
16	Septicemia	84	5.2	0.6
17	Congenital Anomalies	81	5.0	0.6
18	Hypertension With or Without Renal Disease	76	4.7	0.5
19	Acquired Immune Deficiency Syndrome (AIDS)	67	4.1	0.5
20	Perinatal Conditions	43	2.7	0.3
Females				
Rank	Cause of Death	Number	Rate	Percent
Total		14,719	891.4	100.0
1	Heart Disease*	3,569	216.1	24.2
2	Cancer	3,409	206.4	23.2
3	Cerebrovascular Disease	1,612	97.6	11.0
4	Chronic Obstructive Pulmonary Disease	818	49.5	5.6
5	Pneumonia & Influenza	550	33.3	3.7
6	Alzheimer's Disease and Dementia	549	33.2	3.7
7	Diabetes	488	29.6	3.3
8	Unintentional Injuries	445	26.9	3.0
9	Other Diseases of the Arteries	168	10.2	1.1
10	Arteriosclerosis	133	8.1	0.9
11	Alcoholic Disease	126	7.6	0.9
12	Hypertension With or Without Renal Disease	125	7.6	0.8
13	Suicide	116	7.0	0.8
14	Parkinson's Disease	111	6.7	0.8
15	Nephritis & Nephrosis	80	4.8	0.5
16	Septicemia	79	4.8	0.5
17	Congenital Anomalies	73	4.4	0.5
18	Homicide & Legal Intervention	45	2.7	0.3
18	Hernia and Intestinal Obstruction	45	2.7	0.3
20	Perinatal Conditions	36	2.2	0.2

* Excludes alcoholic cardiomyopathy (which is included in "Alcoholic Disease").

TABLE 6-3.
Selected Leading Causes of Death with Rates,
Oregon Residents, 1979-1998

Year	Total	Major Cardiovascular Disease			Malignant Neoplasms	Chronic Obstructive Pulmonary Disease	Pneumonia and Influenza	Diabetes Mellitus
		Diseases of the Heart ¹	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
1998	29,346	7,276	2,636	228	7,007	1,638	1,010	870
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
1998	898.1	222.7	80.7	7.0	214.4	50.1	30.9	26.6

1. Excludes Alcoholic Cardiomyopathy.
Rates per 100,000 population.

TABLE 6-3.
Selected Leading Causes of Death with Rates,
Oregon Residents, 1979-1998 (Continued)

Year	Alcoholism ¹	Alzheimer's Disease	Parkinson's Disease	Acquired Immune Deficiency Syndrome	External Causes			
					Unintentional Injuries	Suicide	Homicide ²	Firearms (AnyManner)
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
1998	380	806	275	71	1,337	569	142	441
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
1998	12.1	24.7	8.4	2.2	40.9	17.4	4.3	13.5

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

1 Includes the alcohol-linked disorders represented by ICD-9 codes 291.0-291.9, 303, 305.0, 357.5, 425.5, 535.3 and 571.0-571.3.

2 Includes legal intervention.

TABLE 6-4.
The Five Principal Causes of Death by Age, Oregon Residents, 1998

Cause of Death	Both Sexes		Rate ¹	
	Number	Percent	Male	Female
All Ages				
All Causes	29,346	100.0	905.0	891.4
1 Diseases of the Heart	7,276	24.8	229.4	216.1
2 Malignant Neoplasms	7,007	23.9	222.6	206.4
3 Cerebrovascular Disease	2,636	9.0	63.4	97.6
4 Chronic Obstructive Pulmonary Disease	1,638	5.6	50.7	49.5
5 Unintentional Injuries	1,337	4.6	55.2	26.9
Under 1 Year²				
All Causes	246	100.0	585.2	501.1
1 Congenital Anomalies	79	32.1	185.0	164.0
2 Perinatal Conditions	78	31.7	180.7	164.0
3 SIDS	45	18.3	116.2	82.0
4 Heart Disease	8	3.3	8.6	27.3
5 Unintentional Injuries	7	2.8	12.9	18.2
1-4 Years				
All Causes	48	100.0	34.3	21.5
1 Unintentional Injuries	17	35.4	13.7	6.0
2 Malignant Neoplasms	7	14.6	4.6	3.6
3 Congenital Anomalies	5	10.4	3.4	2.4
4 Heart Disease	2	4.2	1.1	1.2
5 Homicide	2	4.2	1.1	1.2
5-14 Years				
All Causes	93	100.0	23.3	17.0
1 Unintentional Injuries	39	41.9	8.5	8.5
2 Malignant Neoplasms	11	11.8	2.1	2.7
3 Suicide	8	8.6	2.5	0.9
4 Homicide	5	5.4	1.3	0.9
5 Congenital Anomalies	4	4.3	0.8	0.9
15-24 Years				
All Causes	377	100.0	121.4	46.1
1 Unintentional Injuries	198	52.5	63.3	24.7
2 Suicide	64	17.0	24.9	3.3
3 Homicide	32	8.5	10.9	3.3
4 Malignant Neoplasms	27	7.2	7.0	5.1
5 Heart Disease	10	2.7	3.5	0.9
25-34 Years				
All Causes	480	100.0	153.9	65.8
1 Unintentional Injuries	169	35.2	58.9	18.4
2 Suicide	96	20.0	33.3	10.6
3 Malignant Neoplasms	46	9.6	11.0	10.1
4 Homicide & Legal Intervention	39	8.1	12.3	5.5
5 Heart Disease	20	4.2	7.3	1.8

¹ Rates per 100,000 population except where noted.

² Rates per 100,000 live births.

TABLE 6-4.
The Five Principal Causes of Death by Age, Oregon Residents, 1998 (Continued)

Cause of Death	Both Sexes		Rate ¹	
	Number	Percent	Male	Female
35-44 Years				
All Causes	1,052	100.0	257.3	129.5
1 Unintentional Injuries	239	22.7	68.1	19.7
2 Malignant Neoplasms	210	20.0	35.5	41.9
3 Suicide	124	11.8	36.6	8.9
4 Heart Disease	118	11.2	33.3	10.0
5 Alcoholic Disease	62	5.9	12.1	10.8
45-54 Years				
All Causes	1,688	100.0	454.4	284.6
1 Malignant Neoplasms	553	32.8	117.1	125.2
2 Heart Disease	315	18.7	101.4	36.5
3 Unintentional Injuries	147	8.7	48.9	15.4
4 Alcoholic Disease	105	6.2	32.3	13.6
5 Suicide	103	6.1	30.6	14.5
55-64 Years				
All Causes	2,663	100.0	1192.7	770.0
1 Malignant Neoplasms	1,051	39.5	422.1	349.3
2 Heart Disease	602	22.6	319.8	127.3
3 Chronic Obstructive Pulmonary Disease	140	5.3	50.8	51.6
4 Cerebrovascular Disease	117	4.4	46.2	39.6
5 Diabetes	105	3.9	43.2	33.9
65-74 Years				
All Causes	5,367	100.0	2910.0	1878.1
1 Malignant Neoplasms	1,968	36.7	1003.8	742.3
2 Heart Disease	1,256	23.4	768.8	365.1
3 Chronic Obstructive Pulmonary Disease	447	8.3	231.1	166.0
4 Cerebrovascular Disease	332	6.2	171.9	123.0
5 Diabetes	191	3.6	86.0	81.8
75-84 Years				
All Causes	9,061	100.0	6,840.2	4,906.1
1 Heart Disease	2,370	26.2	1,898.0	1,204.8
2 Malignant Neoplasms	2,200	24.3	1,736.8	1,136.4
3 Cerebrovascular Disease	922	10.2	586.0	578.5
4 Chronic Obstructive Pulmonary Disease	708	7.8	527.2	388.6
5 Pneumonia & Influenza	313	3.5	250.0	159.6
85+ Years				
All Causes	8,271	100.0	17,551.5	15,105.6
1 Heart Disease	2,573	31.1	5,278.8	4,782.7
2 Cerebrovascular Disease	1,172	14.2	2,116.4	2,311.4
3 Malignant Neoplasms	933	11.3	2,572.5	1,430.6
4 Pneumonia and Influenza	525	6.3	1,252.8	894.8
5 Alzheimer's Disease and Dementia	460	5.6	754.1	942.5

¹ Rates per 100,000 population except where noted.

TABLE 6-5.
Deaths by Marital Status, Sex, and Age, Oregon Residents, 1998

Marital Status and Sex	Total	Age at Death							
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49
Total	29,346	387	155	222	223	257	425	627	760
Male	14,627	221	113	165	158	179	287	416	479
Female	14,719	166	42	57	65	78	138	211	281
Single	2,397	387	152	192	125	121	139	139	117
Male	1,546	221	110	142	94	90	108	110	93
Female	851	166	42	50	31	31	31	29	24
Married	12,153	-	3	25	72	84	178	280	358
Male	8,206	-	3	20	48	53	110	168	195
Female	3,947	-	-	5	24	31	68	112	163
Widowed	10,938	-	-	-	-	-	5	13	16
Male	2,767	-	-	-	-	-	1	8	8
Female	8,171	-	-	-	-	-	4	5	8
Divorced	3,765	-	-	3	24	47	99	189	266
Male	2,034	-	-	1	14	31	64	125	181
Female	1,731	-	-	2	10	16	35	64	85
Unknown	93	-	-	2	2	5	4	6	3
Male	74	-	-	2	2	5	4	5	2
Female	19	-	-	-	-	-	-	1	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+
Total	928	1,120	1,543	2,167	3,200	4,333	4,728	4,252	4,019
Male	561	672	902	1,263	1,784	2,262	2,279	1,750	1,136
Female	367	448	641	904	1,416	2,071	2,449	2,502	2,883
Single	107	75	84	91	112	137	149	138	132
Male	77	58	62	69	67	84	84	51	26
Female	30	17	22	22	45	53	65	87	106
Married	494	654	912	1,300	1,787	2,159	1,996	1,270	581
Male	286	397	572	846	1,200	1,497	1,432	942	437
Female	208	257	340	454	587	662	564	328	144
Widowed	29	80	173	350	816	1,527	2,230	2,590	3,109
Male	7	17	53	100	234	424	623	668	624
Female	22	63	120	250	582	1,103	1,607	1,922	2,485
Divorced	290	306	368	417	472	497	346	245	196
Male	186	197	209	240	271	247	137	82	49
Female	104	109	159	177	201	250	209	163	147
Unknown	8	5	6	9	13	13	7	9	1
Male	5	3	6	8	12	10	3	7	-
Female	3	2	-	1	1	3	4	2	1

- Quantity is zero.

TABLE 6-6.
Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1998

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+
All Causes		29,346	246	48	93	377	480	1052	1,688	2,663	5,367	4,333	12,999
	Male	14,627	136	30	55	278	337	703	1,040	1,574	3,047	2,262	5,165
	Female	14,719	110	18	38	99	143	349	648	1,089	2,320	2,071	7,834
	I. Infective and Parasitic Disease	414	2	1	1	5	21	57	66	46	65	36	114
	Male	247	1	-	-	4	15	46	51	33	38	12	47
	Female	167	1	1	1	1	6	11	15	13	27	24	67
010-018, 137	Tuberculosis, All Forms	12	-	-	-	-	-	2	1	1	-	3	5
	Male	7	-	-	-	-	-	2	-	-	-	-	5
	Female	5	-	-	-	-	-	-	1	1	-	3	-
038	Septicemia	163	1	-	-	2	3	4	12	15	36	18	72
	Male	84	-	-	-	2	2	3	8	12	25	6	26
	Female	79	1	-	-	-	1	1	4	3	11	12	46
042-044	AIDS	71	-	-	-	2	13	32	16	7	1	-	-
	Male	67	-	-	-	2	12	29	16	7	1	-	-
	Female	4	-	-	-	-	1	3	-	-	-	-	-
070	Viral Hepatitis	76	-	-	-	-	-	17	30	10	9	5	5
	Male	53	-	-	-	-	-	10	25	9	4	2	3
	Female	23	-	-	-	-	-	7	5	1	5	3	2
Residual of 001-139	Other Infective & Parasitic Diseases	92	1	1	1	1	5	2	7	13	19	10	32
	Male	36	1	-	-	-	1	2	2	5	8	4	13
	Female	56	-	1	1	1	4	-	5	8	11	6	19
	II. Neoplasms	7,082	2	7	11	27	47	210	561	1054	1985	1,202	1,976
	Male	3,632	-	4	5	16	25	97	271	557	1066	642	949
	Female	3,450	2	3	6	11	22	113	290	497	919	560	1,027
140-208	Malignant Neoplasms	7,007	1	7	11	27	46	210	553	1051	1968	1,191	1,942
	Male	3,598	-	4	5	16	24	97	268	557	1051	637	939
	Female	3,409	1	3	6	11	22	113	285	494	917	554	1,003
140-149	Buccal Cavity & Pharynx	120	-	-	1	-	1	4	11	24	38	17	24
	Male	59	-	-	-	-	1	3	8	14	20	7	6
	Female	61	-	-	1	-	-	1	3	10	18	10	18
150-159	Digestive Organs & Peritoneum	1,502	1	2	-	1	7	38	106	217	423	251	456
	Male	789	-	1	-	-	6	23	63	124	240	146	186
	Female	713	1	1	-	1	1	15	43	93	183	105	270

- 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, 1998 (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	164	-	-	-	-	-	1	17	31	46	34	35
	Male	121	-	-	-	-	-	1	12	28	33	24	23
	Female	43	-	-	-	-	-	-	5	3	13	10	12
151	Stomach	136	-	-	-	-	2	7	12	14	34	24	43
	Male	78	-	-	-	-	1	5	5	6	20	17	24
	Female	58	-	-	-	-	1	2	7	8	14	7	19
153	Large Intestine (Exc. Rectum)	570	-	-	-	1	1	11	28	78	157	90	204
	Male	284	-	-	-	-	1	6	14	48	92	52	71
	Female	286	-	-	-	1	-	5	14	30	65	38	133
154	Rectum	96	-	-	-	-	1	4	5	13	24	12	37
	Male	50	-	-	-	-	1	1	4	7	14	8	15
	Female	46	-	-	-	-	-	3	1	6	10	4	22
157	Pancreas	361	-	-	-	-	1	7	24	45	120	70	94
	Male	164	-	-	-	-	1	4	17	15	59	34	34
	Female	197	-	-	-	-	-	3	7	30	61	36	60
160-165	Respiratory/Intrathoracic Organs	2,121	-	-	-	1	1	43	127	379	716	415	439
	Male	1,193	-	-	-	-	1	25	73	225	406	230	233
	Female	928	-	-	-	1	-	18	54	154	310	185	206
162.2-.9	Bronchus & Lung	2,065	-	-	-	-	1	39	122	368	707	401	427
	Male	1,153	-	-	-	-	1	22	70	216	400	220	224
	Female	912	-	-	-	-	-	17	52	152	307	181	203
170-175	Bone, Connective Tissue, Skin & Breast	726	-	-	-	4	10	54	120	120	163	76	179
	Male	122	-	-	-	3	3	12	21	19	30	12	22
	Female	604	-	-	-	1	7	42	99	101	133	64	157
172	Malignant Melanoma	106	-	-	-	1	2	10	24	15	31	9	14
	Male	72	-	-	-	1	2	5	18	12	19	7	8
	Female	34	-	-	-	-	-	5	6	3	12	2	6
173	Other Skin	21	-	-	-	-	-	1	3	-	8	4	5
	Male	13	-	-	-	-	-	1	2	-	6	2	2
	Female	8	-	-	-	-	-	-	1	-	2	2	3
174-175	Breast	531	-	-	-	-	4	35	88	95	109	57	143
	Male	6	-	-	-	-	-	-	-	1	-	-	5
	Female	525	-	-	-	-	4	35	88	94	109	57	138

- Quantity is zero.

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TABLE 6-6.
Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1998 (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+
179-187	Genital Organs	813	-	-	-	1	9	20	43	87	190	138	325
	Male	468	-	-	-	-	2	2	7	28	99	89	241
	Female	345	-	-	-	1	7	18	36	59	91	49	84
179-182	Cervix & Uterus	133	-	-	-	-	4	6	11	20	36	17	39
	Male	-	-	-	-	-	-	-	-	-	-	-	-
	Female	133	-	-	-	-	4	6	11	20	36	17	39
180	Cervix Uteri	34	-	-	-	-	4	5	6	5	7	2	5
	Male	-	-	-	-	-	-	-	-	-	-	-	-
	Female	34	-	-	-	-	4	5	6	5	7	2	5
182	Uterus	61	-	-	-	-	-	-	3	11	19	7	21
	Male	-	-	-	-	-	-	-	-	-	-	-	-
	Female	61	-	-	-	-	-	-	3	11	19	7	21
183.0	Ovary	197	-	-	-	1	3	11	24	37	49	31	41
	Male	-	-	-	-	-	-	-	-	-	-	-	-
	Female	197	-	-	-	1	3	11	24	37	49	31	41
185	Prostate	461	-	-	-	-	-	-	7	28	98	87	241
	Male	461	-	-	-	-	-	-	7	28	98	87	241
	Female	-	-	-	-	-	-	-	-	-	-	-	-
188-189	Urinary Organs	330	-	-	-	-	-	3	20	43	74	70	120
	Male	221	-	-	-	-	-	2	17	28	54	45	75
	Female	109	-	-	-	-	-	1	3	15	20	25	45
188	Bladder	160	-	-	-	-	-	1	3	16	29	36	75
	Male	110	-	-	-	-	-	1	3	12	22	24	48
	Female	50	-	-	-	-	-	-	-	4	7	12	27
190-199	Other & Unspecified Sites	660	-	3	6	7	8	29	74	98	187	110	138
	Male	354	-	1	2	7	4	18	47	65	96	52	62
	Female	306	-	2	4	-	4	11	27	33	91	58	76
191	Brain	223	-	1	5	4	5	22	40	35	58	35	18
	Male	125	-	-	1	4	2	13	25	24	29	19	8
	Female	98	-	1	4	-	3	9	15	11	29	16	10
200-208	Lymphatic & Hematopoietic Tissues	735	-	2	4	13	10	19	52	83	177	114	261
	Male	392	-	2	3	6	7	12	32	54	106	56	114
	Female	343	-	-	1	7	3	7	20	29	71	58	147
202.8	Lymphoma	305	-	-	-	3	5	1	28	34	70	49	115
	Male	160	-	-	-	2	3	1	21	20	41	19	53
	Female	145	-	-	-	1	2	-	7	14	29	30	62

- Quantity is zero.

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TABLE 6-6.
Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1998 (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+
203.0	Multiple Myeloma	134	-	-	-	-	-	2	10	16	30	26	50
	Male	62	-	-	-	-	-	2	3	10	12	13	22
	Female	72	-	-	-	-	-	-	7	6	18	13	28
204-208	Leukemia	252	-	2	3	8	1	11	6	32	73	30	86
	Male	150	-	2	2	3	1	6	3	23	51	20	39
	Female	102	-	-	1	5	-	5	3	9	22	10	47
204	Lymphatic Leukemia	89	-	-	3	4	-	1	2	11	17	12	39
	Male	57	-	-	2	2	-	-	1	7	14	10	21
	Female	32	-	-	1	2	-	1	1	4	3	2	18
205	Myeloid Leukemia	119	-	1	-	3	1	7	4	14	44	12	33
	Male	66	-	1	-	-	1	4	2	10	29	5	14
	Female	53	-	-	-	3	-	3	2	4	15	7	19
210-229	Benign Neoplasms	16	1	-	-	-	-	-	4	-	3	2	6
	Male	6	-	-	-	-	-	-	1	-	3	-	2
	Female	10	1	-	-	-	-	-	3	-	-	2	4
230-239	In Situ, Uncertain Behavior & Unspecified Nature Neoplasms	59	-	-	-	-	1	-	4	3	14	9	28
	Male	28	-	-	-	-	1	-	2	-	12	5	8
	Female	31	-	-	-	-	-	-	2	3	2	4	20
III.	Endocrine, Nutritional, and Metabolic Diseases	1,147	6	1	4	8	13	35	72	128	236	211	433
	Male	496	3	-	3	5	4	19	44	67	112	95	144
	Female	651	3	1	1	3	9	16	28	61	124	116	289
250	Diabetes Mellitus	870	-	-	2	2	10	22	55	105	191	178	305
	Male	382	-	-	2	1	3	12	35	57	90	81	101
	Female	488	-	-	-	1	7	10	20	48	101	97	204
Residual of 240-279	Other Endocrine, Nutritional, & Metabolic Diseases	277	6	1	2	6	3	13	17	23	45	33	128
	Male	114	3	-	1	4	1	7	9	10	22	14	43
	Female	163	3	1	1	2	2	6	8	13	23	19	85
IV.	Diseases of the Blood-forming Organs	129	2	1	1	-	3	4	5	3	26	15	69
	Male	72	2	1	1	-	1	2	3	2	15	9	36
	Female	57	-	-	-	-	2	2	2	1	11	6	33

- 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, 1998 (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	50	-	-	1	-	1	1	3	1	6	3	34
	Male	25	-	-	1	-	-	1	2	1	2	2	16
	Female	25	-	-	-	-	1	-	1	-	4	1	18
Residual of 280-289	Other Diseases of the Blood-forming Organs	79	2	1	-	-	2	3	2	2	20	12	35
	Male	47	2	1	-	-	1	1	1	1	13	7	20
	Female	32	-	-	-	-	1	2	1	1	7	5	15
	V. Mental Disorders	1,156	-	-	-	3	22	40	48	34	93	109	807
	Male	426	-	-	-	2	15	25	34	22	45	46	237
	Female	730	-	-	-	1	7	15	14	12	48	63	570
290.1	Alzheimer's Dementia	395	-	-	-	-	-	-	-	2	26	47	320
	Male	123	-	-	-	-	-	-	-	1	13	18	91
	Female	272	-	-	-	-	-	-	-	1	13	29	229
291	Alcoholic Psychosis	11	-	-	-	-	-	1	2	1	4	-	3
	Male	7	-	-	-	-	-	1	2	-	2	-	2
	Female	4	-	-	-	-	-	-	-	1	2	-	1
303	Alcoholism	94	-	-	-	-	3	19	28	17	21	4	2
	Male	57	-	-	-	-	3	11	18	9	11	4	1
	Female	37	-	-	-	-	-	8	10	8	10	-	1
304	Drug Dependence	20	-	-	-	-	6	6	7	-	-	-	1
	Male	17	-	-	-	-	4	6	6	-	-	-	1
	Female	3	-	-	-	-	2	-	1	-	-	-	-
305	Non-dependent Drug Abuse	51	-	-	-	3	11	10	10	10	3	2	2
	Male	34	-	-	-	2	7	5	7	10	2	1	-
	Female	17	-	-	-	1	4	5	3	-	1	1	2
Residual of 290-319	Other Mental Disorders	585	-	-	-	-	2	4	1	4	39	56	479
	Male	188	-	-	-	-	1	2	1	2	17	23	142
	Female	397	-	-	-	-	1	2	-	2	22	33	337
	IV. Diseases of the Nervous System & Sense Organs	1,005	5	6	9	6	7	18	36	53	131	163	571
	Male	453	5	4	6	2	3	11	17	22	78	84	221
	Female	552	-	2	3	4	4	7	19	31	53	79	350

- Quantity is zero.

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TABLE 6-6.
Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1998 (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+
320-322	Meningitis	8	1	3	1	-	-	-	-	-	-	1	2
	Male	6	1	2	1	-	-	-	-	-	-	1	1
	Female	2	-	1	-	-	-	-	-	-	-	-	1
331.0	Alzheimer's Disease	411	-	-	-	-	-	-	1	3	29	57	321
	Male	134	-	-	-	-	-	-	-	2	16	22	94
	Female	277	-	-	-	-	-	-	1	1	13	35	227
332	Parkinson's Disease	275	-	-	-	-	-	-	2	1	33	61	178
	Male	164	-	-	-	-	-	-	1	1	24	41	97
	Female	111	-	-	-	-	-	-	1	-	9	20	81
345	Epilepsy	16	1	-	1	2	4	2	1	2	2	-	1
	Male	6	1	-	-	-	3	1	-	1	-	-	-
	Female	10	-	-	1	2	1	1	1	1	2	-	1
Residual of 320-389	Other Disease of the Nervous System & Sense Organs	295	3	3	7	4	3	16	32	47	67	44	69
	Male	143	3	2	5	2	-	10	16	18	38	20	29
	Female	152	-	1	2	2	3	6	16	29	29	24	40
VII. Diseases of the Circulatory System		10,797	10	2	3	12	28	153	397	780	1730	1,600	6,082
	Male	5,164	3	1	2	10	20	112	278	523	1080	851	2,284
	Female	5,633	7	1	1	2	8	41	119	257	650	749	3,798
390-448	Major Cardiovascular Diseases	10,751	10	2	3	12	28	151	393	773	1722	1,596	6,061
	Male	5,142	3	1	2	10	20	110	275	518	1076	849	2,278
	Female	5,609	7	1	1	2	8	41	118	255	646	747	3,783
390-398, 402,404- 429	Diseases of the Heart	7,292	8	2	2	10	20	120	317	608	1258	1,081	3,866
	Male	3,721	2	1	2	8	16	93	234	427	807	618	1,513
	Female	3,571	6	1	-	2	4	27	83	181	451	463	2,353
390-398	Rheumatic Fever & Chronic Rheumatic Heart Disease	84	-	-	-	-	-	5	1	8	16	11	43
	Male	26	-	-	-	-	-	3	1	5	4	4	9
	Female	58	-	-	-	-	-	2	-	3	12	7	34
402,404	Hypertensive Heart Disease With or Without Renal Disease	-	-	-	-	-	-	-	-	-	-	-	-
	Male	246	-	-	-	-	1	3	15	13	32	26	156
	Female	79	-	-	-	-	-	3	10	9	8	10	39
		167	-	-	-	-	1	-	5	4	24	16	117

- 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, 1998 (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	4,685	-	-	-	2	6	75	220	442	906	740	2,294
	Male	2,601	-	-	-	2	6	60	176	324	608	452	973
	Female	2,084	-	-	-	-	-	15	44	118	298	288	1,321
410	Myocardial Infarction	1,819	-	-	-	1	2	24	78	200	368	316	830
	Male	990	-	-	-	1	2	18	54	146	242	182	345
	Female	829	-	-	-	-	-	6	24	54	126	134	485
411	Other Acute & Subacute Ischemic Heart Disease	1	-	-	-	-	-	-	-	-	-	-	1
	Male	-	-	-	-	-	-	-	-	-	-	-	-
	Female	1	-	-	-	-	-	-	-	-	-	-	1
412-414	Chronic Ischemic Heart Disease	2,865	-	-	-	1	4	51	142	242	538	424	1,463
	Male	1,611	-	-	-	1	4	42	122	178	366	270	628
	Female	1,254	-	-	-	-	-	9	20	64	172	154	835
415-429	All Other Forms	2,277	8	2	2	8	13	37	81	145	304	304	1,373
	Male	1,015	2	1	2	6	10	27	47	89	187	152	492
	Female	1,262	6	1	-	2	3	10	34	56	117	152	881
401, 403	Hypertension	201	-	-	-	-	-	-	3	13	30	37	118
	Male	76	-	-	-	-	-	-	2	10	12	18	34
	Female	125	-	-	-	-	-	-	1	3	18	19	84
430-438	Cerebrovascular Disease	2,636	2	-	1	2	7	24	57	117	332	363	1,731
	Male	1,024	1	-	-	2	3	11	29	61	180	151	586
	Female	1,612	1	-	1	-	4	13	28	56	152	212	1,145
430	Subarachnoid Hemorrhage	80	-	-	-	1	3	11	11	19	15	4	16
	Male	29	-	-	-	1	1	2	7	9	4	1	4
	Female	51	-	-	-	-	2	9	4	10	11	3	12
431-432	Intracerebral & Intracranial Hemorrhages	337	1	-	1	-	4	8	24	27	79	57	136
	Male	150	-	-	-	-	2	6	10	15	44	22	51
	Female	187	1	-	1	-	2	2	14	12	35	35	85
434	Cerebral Thrombosis & Embolism	330	-	-	-	-	-	-	2	11	34	40	243
	Male	124	-	-	-	-	-	-	-	6	19	22	77
	Female	206	-	-	-	-	-	-	2	5	15	18	166
436	Acute but Ill-defined Cerebrovascular Disease	1,470	-	-	-	-	-	3	14	44	159	201	1,049
	Male	556	-	-	-	-	-	2	10	21	92	73	358
	Female	914	-	-	-	-	-	1	4	23	67	128	691

- Quantity is zero.

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TABLE 6-6.
Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1998 (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+
437	Generalized Ischemic Cerebrovascular Disease	232	1	-	-	1	-	1	4	6	25	34	160
	Male	94	1	-	-	1	-	-	2	3	11	19	57
	Female	138	-	-	-	-	-	1	2	3	14	15	103
440	Arteriosclerosis	228	-	-	-	-	-	1	3	15	26	34	149
	Male	95	-	-	-	-	-	1	2	11	20	17	44
	Female	133	-	-	-	-	-	-	1	4	6	17	105
441-448	Other Diseases of the Arteries, Arterioles, and Capillaries	394	-	-	-	-	1	6	13	20	76	81	197
	Male	226	-	-	-	-	1	5	8	9	57	45	101
	Female	168	-	-	-	-	-	1	5	11	19	36	96
441	Aortic Aneurysm	248	-	-	-	-	1	3	10	12	55	56	111
	Male	153	-	-	-	-	1	3	8	6	40	30	65
	Female	95	-	-	-	-	-	-	2	6	15	26	46
451-453	Venous Thrombosis & Embolism	18	-	-	-	-	-	2	-	4	2	1	9
	Male	9	-	-	-	-	-	2	-	3	1	-	3
	Female	9	-	-	-	-	-	-	-	1	1	1	6
Residual of 390-459	Other Diseases of the Circulatory System	28	-	-	-	-	-	-	4	3	6	3	12
	Male	13	-	-	-	-	-	-	3	2	3	2	3
	Female	15	-	-	-	-	-	-	1	1	3	1	9
VIII.	Disease of the Respiratory System	3,032	3	1	3	4	7	26	67	204	602	600	1,515
	Male	1,491	2	1	3	2	6	17	39	104	324	307	686
	Female	1,541	1	-	-	2	1	9	28	100	278	293	829
480-487	Pneumonia & Influenza	1,010	-	-	1	1	4	14	24	40	88	145	693
	Male	460	-	-	1	-	3	7	13	23	41	76	296
	Female	550	-	-	-	1	1	7	11	17	47	69	397
480-486	Pneumonia	1,004	-	-	1	1	4	13	24	40	88	144	689
	Male	457	-	-	1	-	3	7	13	23	41	75	294
	Female	547	-	-	-	1	1	6	11	17	47	69	395
487	Influenza	6	-	-	-	-	-	1	-	-	-	1	4
	Male	3	-	-	-	-	-	-	-	-	-	1	2
	Female	3	-	-	-	-	-	1	-	-	-	-	2

- Quantity is zero.

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TABLE 6-6.
Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1998 (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	1,638	-	-	1	1	1	7	33	140	447	383	625
	Male	820	-	-	1	1	1	6	18	67	242	181	303
	Female	818	-	-	-	-	-	1	15	73	205	202	322
490-491	Chronic & Unspecified Bronchitis	40	-	-	-	-	-	-	1	2	9	7	21
	Male	15	-	-	-	-	-	-	-	1	6	2	6
	Female	25	-	-	-	-	-	-	1	1	3	5	15
492	Emphysema	325	-	-	-	-	-	1	10	35	100	88	91
	Male	168	-	-	-	-	-	1	6	18	55	37	51
	Female	157	-	-	-	-	-	-	4	17	45	51	40
493	Asthma	96	-	-	1	1	1	2	5	12	14	14	46
	Male	32	-	-	1	1	1	1	1	2	5	4	16
	Female	64	-	-	-	-	-	1	4	10	9	10	30
494	Bronchiectasis	27	-	-	-	-	-	1	-	1	4	11	10
	Male	11	-	-	-	-	-	1	-	1	2	4	3
	Female	16	-	-	-	-	-	-	-	-	2	7	7
496	Chronic Airway Obstruction Not Elsewhere Classified (COPD)	1,149	-	-	-	-	-	3	17	90	320	263	456
	Male	593	-	-	-	-	-	3	11	45	174	134	226
	Female	556	-	-	-	-	-	-	6	45	146	129	230
Residual of 460-519	Other Diseases of the Respiratory System	385	3	1	1	2	2	5	10	24	67	72	198
	Male	212	2	1	1	1	2	4	8	14	41	50	88
	Female	173	1	-	-	1	-	1	2	10	26	22	110
	IX. Diseases of the Digestive System	997	2	2	1	2	8	59	106	120	167	126	404
	Male	481	2	1	1	1	6	34	68	77	92	54	145
	Female	516	-	1	-	1	2	25	38	43	75	72	259
531	Ulcer of the Stomach	14	-	-	-	-	1	1	2	1	2	3	4
	Male	5	-	-	-	-	1	1	-	-	1	-	2
	Female	9	-	-	-	-	-	-	2	1	1	3	2
532	Ulcer of the Duodenum	11	-	-	-	-	-	-	-	1	3	1	6
	Male	5	-	-	-	-	-	-	-	-	2	1	2
	Female	6	-	-	-	-	-	-	-	1	1	-	4

- Quantity is zero.

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TABLE 6-6.
Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1998 (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+
533	Peptic Ulcer	19	-	-	-	-	-	-	-	1	3	5	10
	Male	6	-	-	-	-	-	-	-	-	1	3	2
	Female	13	-	-	-	-	-	-	-	1	2	2	8
550-553, 560	Hernia & Intestinal Obstruction	79	1	-	-	-	-	-	1	5	11	7	54
	Male	34	1	-	-	-	-	-	-	4	4	4	21
	Female	45	-	-	-	-	-	-	1	1	7	3	33
571	Cirrhosis of the Liver	324	-	-	-	-	5	39	75	71	64	36	34
	Male	200	-	-	-	-	3	20	52	48	45	13	19
	Female	124	-	-	-	-	2	19	23	23	19	23	15
571-0.3	Alcoholic Cirrhosis of the Liver	245	-	-	-	-	3	36	69	56	45	19	17
	Male	167	-	-	-	-	2	18	49	43	35	9	11
	Female	78	-	-	-	-	1	18	20	13	10	10	6
574-576	Diseases of the Gallbladder	57	-	-	-	-	1	1	1	6	9	6	33
	Male	22	-	-	-	-	1	1	-	3	4	2	11
	Female	35	-	-	-	-	-	-	1	3	5	4	22
577	Diseases of the Pancreas	32	-	-	-	-	-	5	6	2	6	3	10
	Male	19	-	-	-	-	-	3	4	1	4	1	6
	Female	13	-	-	-	-	-	2	2	1	2	2	4
Residual of 520-579	Other Diseases of the Digestive System	461	1	2	1	2	1	13	21	33	69	65	253
	Male	190	1	1	1	1	1	9	12	21	31	30	82
	Female	271	-	1	-	1	-	4	9	12	38	35	171
	X. Diseases of the Genitourinary System	385	-	-	1	1	2	3	7	14	52	49	256
	Male	190	-	-	1	1	2	1	5	6	29	32	113
	Female	195	-	-	-	-	-	2	2	8	23	17	143
580-589	Nephritis & Nephrosis	178	-	-	1	-	1	-	4	6	25	24	117
	Male	98	-	-	1	-	1	-	4	1	16	17	58
	Female	80	-	-	-	-	-	-	-	5	9	7	59
590	Infections of the Kidney	8	-	-	-	-	-	-	-	1	-	1	6
	Male	2	-	-	-	-	-	-	-	-	-	1	1
	Female	6	-	-	-	-	-	-	-	1	-	-	5
599.0	Urinary Tract Infection	139	-	-	-	-	-	1	1	2	17	16	102
	Male	53	-	-	-	-	-	1	1	1	9	10	31
	Female	86	-	-	-	-	-	-	-	1	8	6	71

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TABLE 6-6.
Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1998 (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+
600-608	Disease of the Male Genital Organs	10	-	-	-	-	-	-	-	1	-	-	9
	Male	10	-	-	-	-	-	-	-	1	-	-	9
	Female	-	-	-	-	-	-	-	-	-	-	-	-
614-629	Diseases of the Uterus & Other Female Genital Organs	7	-	-	-	-	-	2	1	-	1	1	2
	Male	-	-	-	-	-	-	-	-	-	-	-	-
	Female	7	-	-	-	-	-	2	1	-	1	1	2
Residual of 580-629	Other Diseases of the Genitourinary System	43	-	-	-	1	1	-	1	4	9	7	20
	Male	27	-	-	-	1	1	-	-	3	4	4	14
	Female	16	-	-	-	-	-	-	1	1	5	3	6
	XI. Complications of Pregnancy, Childbirth, & the Puerperium	5	-	-	-	1	2	1	-	1	-	-	-
630-676	Male	-	-	-	-	-	-	-	-	-	-	-	-
	Female	5	-	-	-	1	2	1	-	1	-	-	-
	XII. Diseases of the Skin & Subcutaneous Tissue	36	-	-	-	-	-	-	2	1	6	7	20
680-709	Male	17	-	-	-	-	-	-	1	-	3	3	10
	Female	19	-	-	-	-	-	-	1	1	3	4	10
	XIII. Musculoskeletal System & Connective Tissue Diseases	179	-	-	-	-	1	7	5	11	28	17	110
710-739	Male	43	-	-	-	-	-	4	2	5	6	4	22
	Female	136	-	-	-	-	1	3	3	6	22	13	88
	XIV. Congenital Anomalies	154	79	5	4	6	1	10	5	5	6	7	26
740-759	Male	81	43	3	2	3	1	5	2	2	3	6	11
	Female	73	36	2	2	3	-	5	3	3	3	1	15
745-746	Congenital Anomalies of the Heart	52	32	3	-	3	-	6	1	-	1	-	6
	Male	30	19	2	-	2	-	4	1	-	-	-	2
	Female	22	13	1	-	1	-	2	-	-	1	-	4
Residual of 740-759	Other Congenital Anomalies	102	47	2	4	3	1	4	4	5	5	7	20
	Male	51	24	1	2	1	1	1	1	2	3	6	9
	Female	51	23	1	2	2	-	3	3	3	2	1	11

- Quantity is zero.

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TABLE 6-6.
Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1998 (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+
XV. Perinatal Conditions		79	78	1	-	-	-	-	-	-	-	-	-
760-779	Male	43	42	1	-	-	-	-	-	-	-	-	-
	Female	36	36	-	-	-	-	-	-	-	-	-	-
XVI. Symptoms & Ill-defined Conditions		646	48	-	2	4	6	17	36	63	94	63	313
	Male	318	28	-	1	2	5	12	29	43	57	36	105
	Female	328	20	-	1	2	1	5	7	20	37	27	208
797	Senility	45	-	-	-	-	-	-	-	-	2	1	42
	Male	16	-	-	-	-	-	-	-	-	-	-	16
	Female	29	-	-	-	-	-	-	-	-	2	1	26
798.0	Sudden Infant Death Syndrome	45	45	-	-	-	-	-	-	-	-	-	-
	Male	27	27	-	-	-	-	-	-	-	-	-	-
	Female	18	18	-	-	-	-	-	-	-	-	-	-
Residual of 780-799	Other Symptoms & Ill-defined Conditions	556	3	-	2	4	6	17	36	63	92	62	271
	Male	275	1	-	1	2	5	12	29	43	57	36	89
	Female	281	2	-	1	2	1	5	7	20	35	26	182
XVII. Accidents, Poisoning, & Violence		2,103	9	21	53	298	312	412	275	146	146	128	303
800-999	Male	1,473	5	14	30	230	234	318	196	111	99	81	155
	Female	630	4	7	23	68	78	94	79	35	47	47	148
800-949	Accidents	1,337	7	17	39	198	169	239	147	74	99	95	253
	Male	892	3	12	20	145	129	186	112	54	63	51	117
	Female	445	4	5	19	53	40	53	35	20	36	44	136
810-825	Motor Vehicle Accidents	545	1	9	18	150	70	95	58	28	54	32	30
	Male	361	1	5	9	107	48	62	40	21	37	16	15
	Female	184	-	4	9	43	22	33	18	7	17	16	15
830-838	Water Transport Accidents	17	-	1	1	3	2	3	3	2	1	-	1
	Male	17	-	1	1	3	2	3	3	2	1	-	1
	Female	-	-	-	-	-	-	-	-	-	-	-	-
840-845	Air Transport Accidents	15	-	-	1	1	1	4	5	1	1	1	-
	Male	12	-	-	-	1	1	4	3	1	1	1	-
	Female	3	-	-	1	-	-	-	2	-	-	-	-
850-869	Poisoning Accidents	214	-	-	-	15	60	82	41	11	2	2	1
	Male	174	-	-	-	11	49	71	33	9	-	1	-
	Female	40	-	-	-	4	11	11	8	2	2	1	1

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TABLE 6-6.
Number of Deaths from Selected Causes by Age and Sex, Oregon Residents, 1998 (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+
880-888	Accidental Falls	278	-	-	-	6	5	12	7	9	19	40	180
	Male	138	-	-	-	4	5	9	6	6	6	22	80
	Female	140	-	-	-	2	-	3	1	3	13	18	100
890-899	Fire & Flame Accidents	26	1	2	4	-	2	2	3	1	2	4	5
	Male	14	1	2	1	-	1	2	2	-	2	1	2
	Female	12	-	-	3	-	1	-	1	1	-	3	3
910	Drowning & Submersion	61	-	1	5	17	11	9	7	5	2	2	2
	Male	48	-	1	3	14	7	8	6	3	2	2	2
	Female	13	-	-	2	3	4	1	1	2	-	-	-
950-959	Suicides	569	-	-	8	64	96	124	103	56	41	32	45
	Male	453	-	-	6	57	73	100	70	47	35	30	35
	Female	116	-	-	2	7	23	24	33	9	6	2	10
960-978	Homicides	142	1	2	5	32	39	35	8	11	5	1	3
	Male	97	1	1	3	25	27	22	6	9	1	-	2
	Female	45	-	1	2	7	12	13	2	2	4	1	1
980-989	Injuries Undetermined Whether Accidentally or Purposely Inflicted	54	1	2	1	4	8	13	17	5	1	-	2
	Male	31	1	1	1	3	5	10	8	1	-	-	1
	Female	23	-	1	-	1	3	3	9	4	1	-	1
990-999	Injury Resulting From Operations of War	-	-	-	-	-	-	-	-	-	-	-	-
	Male	-	-	-	-	-	-	-	-	-	-	-	-
	Female	-	-	-	-	-	-	-	-	-	-	-	-

- Quantity is zero.

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TABLE 6-7.
Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1998

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+
All Causes		898.1	543.9	22.2	20.2	84.9	110.0	193.9	369.7	974.0	2,351.5	4,614.4	11,138.1
	Male	905.0	587.0	27.1	23.3	121.4	153.9	257.3	454.4	1,192.7	2,910.0	5,556.6	12,262.0
	Female	891.4	498.7	17.0	17.0	46.1	65.8	129.5	284.6	770.0	1,878.1	3,893.3	10,503.3
I. Infective and Parasitic Disease		12.7	4.4	0.5	0.2	1.1	4.8	10.5	14.5	16.8	28.5	38.3	97.7
	Male	15.3	4.3	-	-	1.7	6.8	16.8	22.3	25.0	36.3	29.5	111.6
	Female	10.1	4.5	0.9	0.4	0.5	2.8	4.1	6.6	9.2	21.9	45.1	89.8
010-018, 137	Tuberculosis, All Forms	0.4	-	-	-	-	-	0.4	0.2	0.4	-	3.2	4.3
	Male	0.4	-	-	-	-	-	0.7	-	-	-	-	11.9
	Female	0.3	-	-	-	-	-	-	0.4	0.7	-	5.6	-
038	Septicemia	5.0	2.2	-	-	0.5	0.7	0.7	2.6	5.5	15.8	19.2	61.7
	Male	5.2	-	-	-	0.9	0.9	1.1	3.5	9.1	23.9	14.7	61.7
	Female	4.8	4.5	-	-	-	0.5	0.4	1.8	2.1	8.9	22.6	61.7
042-44	AIDS	2.2	-	-	-	0.5	3.0	5.9	3.5	2.6	0.4	-	-
	Male	4.1	-	-	-	0.9	5.5	10.6	7.0	5.3	1.0	-	-
	Female	0.2	-	-	-	-	0.5	1.1	-	-	-	-	-
070	Viral Hepatitis	2.3	-	-	-	-	-	3.1	6.6	3.7	3.9	5.3	4.3
	Male	3.3	-	-	-	-	-	3.7	10.9	6.8	3.8	4.9	7.1
	Female	1.4	-	-	-	-	-	2.6	2.2	0.7	4.0	5.6	2.7
Residual of 001-139	Other Infective & Parasitic Diseases	2.8	2.2	0.5	0.2	0.2	1.1	0.4	1.5	4.8	8.3	10.6	27.4
	Male	2.2	4.3	-	-	-	0.5	0.7	0.9	3.8	7.6	9.8	30.9
	Female	3.4	-	0.9	0.4	0.5	1.8	-	2.2	5.7	8.9	11.3	25.5
II. Neoplasms		216.7	4.4	3.2	2.4	6.1	10.8	38.7	122.9	385.5	869.7	1,280.1	1,693.1
	Male	224.7	-	3.6	2.1	7.0	11.4	35.5	118.4	422.1	1,018.1	1,577.1	2,253.0
	Female	208.9	9.1	2.8	2.7	5.1	10.1	41.9	127.4	351.4	743.9	1,052.8	1,376.9
140-208	Malignant Neoplasms	214.4	2.2	3.2	2.4	6.1	10.5	38.7	121.1	384.4	862.3	1,268.3	1,664.0
	Male	222.6	-	3.6	2.1	7.0	11.0	35.5	117.1	422.1	1,003.8	1,564.8	2,229.2
	Female	206.4	4.5	2.8	2.7	5.1	10.1	41.9	125.2	349.3	742.3	1,041.5	1,344.8
140-149	Buccal Cavity & Pharynx	3.7	-	-	0.2	-	0.2	0.7	2.4	8.8	16.6	18.1	20.6
	Male	3.7	-	-	-	-	0.5	1.1	3.5	10.6	19.1	17.2	14.2
	Female	3.7	-	-	0.4	-	-	0.4	1.3	7.1	14.6	18.8	24.1

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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, 1998 (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+
150-159	Digestive Organs & Peritoneum	46.0	2.2	0.9	-	0.2	1.6	7.0	23.2	79.4	185.3	267.3	390.7
	Male	48.8	-	0.9	-	-	2.7	8.4	27.5	94.0	229.2	358.7	441.6
	Female	43.2	4.5	0.9	-	0.5	0.5	5.6	18.9	65.8	148.1	197.4	362.0
150	Esophagus	5.0	-	-	-	-	-	0.2	3.7	11.3	20.2	36.2	30.0
	Male	7.5	-	-	-	-	-	0.4	5.2	21.2	31.5	59.0	54.6
	Female	2.6	-	-	-	-	-	-	2.2	2.1	10.5	18.8	16.1
151	Stomach	4.2	-	-	-	-	0.5	1.3	2.6	5.1	14.9	25.6	36.8
	Male	4.8	-	-	-	-	0.5	1.8	2.2	4.5	19.1	41.8	57.0
	Female	3.5	-	-	-	-	0.5	0.7	3.1	5.7	11.3	13.2	25.5
153	Large Intestine (Exc. Rectum)	17.4	-	-	-	0.2	0.2	2.0	6.1	28.5	68.8	95.8	174.8
	Male	17.6	-	-	-	-	0.5	2.2	6.1	36.4	87.9	127.7	168.6
	Female	17.3	-	-	-	0.5	-	1.9	6.1	21.2	52.6	71.4	178.3
154	Rectum	2.9	-	-	-	-	0.2	0.7	1.1	4.8	10.5	12.8	31.7
	Male	3.1	-	-	-	-	0.5	0.4	1.7	5.3	13.4	19.7	35.6
	Female	2.8	-	-	-	-	-	1.1	0.4	4.2	8.1	7.5	29.5
157	Pancreas	11.0	-	-	-	-	0.2	1.3	5.3	16.5	52.6	74.5	80.5
	Male	10.1	-	-	-	-	0.5	1.5	7.4	11.4	56.3	83.5	80.7
	Female	11.9	-	-	-	-	-	1.1	3.1	21.2	49.4	67.7	80.4
160-165	Respiratory/Intrathoracic Organs	64.9	-	-	-	0.2	0.2	7.9	27.8	138.6	313.7	442.0	376.2
	Male	73.8	-	-	-	-	0.5	9.1	31.9	170.5	387.7	565.0	553.2
	Female	56.2	-	-	-	0.5	-	6.7	23.7	108.9	251.0	347.8	276.2
162.2-9	Bronchus & Lung	63.2	-	-	-	-	0.2	7.2	26.7	134.6	309.8	427.0	365.9
	Male	71.3	-	-	-	-	0.5	8.1	30.6	163.7	382.0	540.4	531.8
	Female	55.2	-	-	-	-	-	6.3	22.8	107.5	248.5	340.3	272.2
170-175	Bone, Connective Tissue, Skin & Breast	22.2	-	-	-	0.9	2.3	10.0	26.3	43.9	71.4	80.9	153.4
	Male	7.5	-	-	-	1.3	1.4	4.4	9.2	14.4	28.7	29.5	52.2
	Female	36.6	-	-	-	0.5	3.2	15.6	43.5	71.4	107.7	120.3	210.5
172	Malignant Melanoma	3.2	-	-	-	0.2	0.5	1.8	5.3	5.5	13.6	9.6	12.0
	Male	4.5	-	-	-	0.4	0.9	1.8	7.9	9.1	18.1	17.2	19.0
	Female	2.1	-	-	-	-	-	1.9	2.6	2.1	9.7	3.8	8.0
173	Other Skin	0.6	-	-	-	-	-	0.2	0.7	-	3.5	4.3	4.3
	Male	0.8	-	-	-	-	-	0.4	0.9	-	5.7	4.9	4.7
	Female	0.5	-	-	-	-	-	-	0.4	-	1.6	3.8	4.0
174-175	Breast	16.3	-	-	-	-	0.9	6.4	19.3	34.7	47.8	60.7	122.5
	Male	0.4	-	-	-	-	-	-	-	0.8	-	-	11.9
	Female	31.8	-	-	-	-	1.8	13.0	38.7	66.5	88.2	107.2	185.0

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Rates per 100,000 population.

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**TABLE 6-7.
Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1998 (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+	
179-187	Genital Organs	24.9	-	-	-	0.2	2.1	3.7	9.4	31.8	83.2	147.0	278.5	
		Male	29.0	-	-	-	-	0.9	0.7	3.1	21.2	94.5	218.6	572.1
		Female	20.9	-	-	-	0.5	3.2	6.7	15.8	41.7	73.7	92.1	112.6
179-182	Cervix & Uterus	4.1	-	-	-	-	0.9	1.1	2.4	7.3	15.8	18.1	33.4	
		Male	-	-	-	-	-	-	-	-	-	-	-	-
		Female	8.1	-	-	-	-	1.8	2.2	4.8	14.1	29.1	32.0	52.3
180	Cervix Uteri	1.0	-	-	-	-	0.9	0.9	1.3	1.8	3.1	2.1	4.3	
		Male	-	-	-	-	-	-	-	-	-	-	-	-
		Female	2.1	-	-	-	-	1.8	1.9	2.6	3.5	5.7	3.8	6.7
182	Uterus	1.9	-	-	-	-	-	-	0.7	4.0	8.3	7.5	18.0	
		Male	-	-	-	-	-	-	-	-	-	-	-	-
		Female	3.7	-	-	-	-	-	-	1.3	7.8	15.4	13.2	28.2
183	Ovary	6.0	-	-	-	0.2	0.7	2.0	5.3	13.5	21.5	33.0	35.1	
		Male	-	-	-	-	-	-	-	-	-	-	-	-
		Female	11.9	-	-	-	0.5	1.4	4.1	10.5	26.2	39.7	58.3	55.0
185	Prostate	14.1	-	-	-	-	-	-	1.5	10.2	42.9	92.6	206.5	
		Male	28.5	-	-	-	-	-	-	3.1	21.2	93.6	213.7	572.1
		Female	-	-	-	-	-	-	-	-	-	-	-	-
188-189	Urinary Organs	10.1	-	-	-	-	-	0.6	4.4	15.7	32.4	74.5	102.8	
		Male	13.7	-	-	-	-	-	0.7	7.4	21.2	51.6	110.5	178.1
		Female	6.6	-	-	-	-	-	0.4	1.3	10.6	16.2	47.0	60.3
188	Bladder	4.9	-	-	-	-	-	0.2	0.7	5.9	12.7	38.3	64.3	
		Male	6.8	-	-	-	-	-	0.4	1.3	9.1	21.0	59.0	114.0
		Female	3.0	-	-	-	-	-	-	-	2.8	5.7	22.6	36.2
190-199	Other & Unspecified Sites	20.2	-	1.4	1.3	1.6	1.8	5.3	16.2	35.8	81.9	117.1	118.2	
		Male	21.9	-	0.9	0.8	3.1	1.8	6.6	20.5	49.3	91.7	127.7	147.2
		Female	18.5	-	1.9	1.8	-	1.8	4.1	11.9	23.3	73.7	109.0	101.9
191	Brain	6.8	-	0.5	1.1	0.9	1.1	4.1	8.8	12.8	25.4	37.3	15.4	
		Male	7.7	-	-	0.4	1.7	0.9	4.8	10.9	18.2	27.7	46.7	19.0
		Female	5.9	-	0.9	1.8	-	1.4	3.3	6.6	7.8	23.5	30.1	13.4
200-208	Lymphatic & Hematopoietic Tissues	22.5	-	0.9	0.9	2.9	2.3	3.5	11.4	30.4	77.6	121.4	223.6	
		Male	24.3	-	1.8	1.3	2.6	3.2	4.4	14.0	40.9	101.2	137.6	270.6
		Female	20.8	-	-	0.4	3.3	1.4	2.6	8.8	20.5	57.5	109.0	197.1
202.8	Lymphoma	9.3	-	-	-	0.7	1.1	0.2	6.1	12.4	30.7	52.2	98.5	
		Male	9.9	-	-	-	0.9	1.4	0.4	9.2	15.2	39.2	46.7	125.8
		Female	8.8	-	-	-	0.5	0.9	-	3.1	9.9	23.5	56.4	83.1

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TABLE 6-7.
Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1998 (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+
203.0	Multiple Myeloma	4.1	-	-	-	-	-	0.4	2.2	5.9	13.1	27.7	42.8
	Male	3.8	-	-	-	-	-	0.7	1.3	7.6	11.5	31.9	52.2
	Female	4.4	-	-	-	-	-	-	3.1	4.2	14.6	24.4	37.5
204-208	Leukemia	7.7	-	0.9	0.7	1.8	0.2	2.0	1.3	11.7	32.0	31.9	73.7
	Male	9.3	-	1.8	0.8	1.3	0.5	2.2	1.3	17.4	48.7	49.1	92.6
	Female	6.2	-	-	0.4	2.3	-	1.9	1.3	6.4	17.8	18.8	63.0
204	Lymphatic Leukemia	2.7	-	-	0.7	0.9	-	0.2	0.4	4.0	7.4	12.8	33.4
	Male	3.5	-	-	0.8	0.9	-	-	0.4	5.3	13.4	24.6	49.9
	Female	1.9	-	-	0.4	0.9	-	0.4	0.4	2.8	2.4	3.8	24.1
205	Myeloid Leukemia	3.6	-	0.5	-	0.7	0.2	1.3	0.9	5.1	19.3	12.8	28.3
	Male	4.1	-	0.9	-	-	0.5	1.5	0.9	7.6	27.7	12.3	33.2
	Female	3.2	-	-	-	1.4	-	1.1	0.9	2.8	12.1	13.2	25.5
210-229	Benign Neoplasms	0.5	2.2	-	-	-	-	-	0.9	-	1.3	2.1	5.1
	Male	0.4	-	-	-	-	-	-	0.4	-	2.9	-	4.7
	Female	0.6	4.5	-	-	-	-	-	1.3	-	-	3.8	5.4
230-239	In Situ, Uncertain Behavior & Unspecified Nature Neoplasms	1.8	-	-	-	-	0.2	-	0.9	1.1	6.1	9.6	24.0
	Male	1.7	-	-	-	-	0.5	-	0.9	-	11.5	12.3	19.0
	Female	1.9	-	-	-	-	-	-	0.9	2.1	1.6	7.5	26.8
III. Endocrine, Nutritional, and Metabolic Diseases		35.1	13.3	0.5	0.9	1.8	3.0	6.4	15.8	46.8	103.4	224.7	371.0
	Male	30.7	12.9	-	1.3	2.2	1.8	7.0	19.2	50.8	107.0	233.4	341.9
	Female	39.4	13.6	0.9	0.4	1.4	4.1	5.9	12.3	43.1	100.4	218.1	387.5
250	Diabetes Mellitus	26.6	-	-	0.4	0.5	2.3	4.1	12.0	38.4	83.7	189.6	261.3
	Male	23.6	-	-	0.8	0.4	1.4	4.4	15.3	43.2	86.0	199.0	239.8
	Female	29.6	-	-	-	0.5	3.2	3.7	8.8	33.9	81.8	182.4	273.5
Residual of 240-279	Other Endocrine, Nutritional, & Metabolic Diseases	8.5	13.3	0.5	0.4	1.4	0.7	2.4	3.7	8.4	19.7	35.1	109.7
	Male	7.1	12.9	-	0.4	1.7	0.5	2.6	3.9	7.6	21.0	34.4	102.1
	Female	9.9	13.6	0.9	0.4	0.9	0.9	2.2	3.5	9.2	18.6	35.7	114.0
IV. Diseases of the Blood-forming Organs		3.9	4.4	0.5	0.2	-	0.7	0.7	1.1	1.1	11.4	16.0	59.1
	Male	4.5	8.6	0.9	0.4	-	0.5	0.7	1.3	1.5	14.3	22.1	85.5
	Female	3.5	-	-	-	-	0.9	0.7	0.9	0.7	8.9	11.3	44.2

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TABLE 6-7.
Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1998 (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	1.5	-	-	0.2	-	0.2	0.2	0.7	0.4	2.6	3.2	29.1
	Male	1.5	-	-	0.4	-	-	0.4	0.9	0.8	1.9	4.9	38.0
	Female	1.5	-	-	-	-	0.5	-	0.4	-	3.2	1.9	24.1
Residual of 280-289	Other Diseases of the Blood-forming Organs	2.4	4.4	0.5	-	-	0.5	0.6	0.4	0.7	8.8	12.8	30.0
	Male	2.9	8.6	0.9	-	-	0.5	0.4	0.4	0.8	12.4	17.2	47.5
	Female	1.9	-	-	-	-	0.5	0.7	0.4	0.7	5.7	9.4	20.1
	V. Mental Disorders	35.4	-	-	-	0.7	5.0	7.4	10.5	12.4	40.7	116.1	691.5
	Male	26.4	-	-	-	0.9	6.8	9.1	14.9	16.7	43.0	113.0	562.7
	Female	44.2	-	-	-	0.5	3.2	5.6	6.1	8.5	38.9	118.4	764.2
290.1	Alzheimer's Dementia	12.1	-	-	-	-	-	-	-	0.7	11.4	50.1	274.2
	Male	7.6	-	-	-	-	-	-	-	0.8	12.4	44.2	216.0
	Female	16.5	-	-	-	-	-	-	-	0.7	10.5	54.5	307.0
291	Alcoholic Psychosis	0.3	-	-	-	-	-	0.2	0.4	0.4	1.8	-	2.6
	Male	0.4	-	-	-	-	-	0.4	0.9	-	1.9	-	4.7
	Female	0.2	-	-	-	-	-	-	-	0.7	1.6	-	1.3
303	Alcoholism	2.9	-	-	-	-	0.7	3.5	6.1	6.2	9.2	4.3	1.7
	Male	3.5	-	-	-	-	1.4	4.0	7.9	6.8	10.5	9.8	2.4
	Female	2.2	-	-	-	-	-	3.0	4.4	5.7	8.1	-	1.3
304	Drug Dependence	0.6	-	-	-	-	1.4	1.1	1.5	-	-	-	0.9
	Male	1.1	-	-	-	-	1.8	2.2	2.6	-	-	-	2.4
	Female	0.2	-	-	-	-	0.9	-	0.4	-	-	-	-
305	Non-dependent Drug Abuse	1.6	-	-	-	0.7	2.5	1.8	2.2	3.7	1.3	2.1	1.7
	Male	2.1	-	-	-	0.9	3.2	1.8	3.1	7.6	1.9	2.5	-
	Female	1.0	-	-	-	0.5	1.8	1.9	1.3	-	0.8	1.9	2.7
Residual of 290-319	Other Mental Disorders	17.9	-	-	-	-	0.5	0.7	0.2	1.5	17.1	59.6	410.4
	Male	11.6	-	-	-	-	0.5	0.7	0.4	1.5	16.2	56.5	337.1
	Female	24.0	-	-	-	-	0.5	0.7	-	1.4	17.8	62.0	451.8
	IV. Diseases of the Nervous System & Sense Organs	30.8	11.1	2.8	2	1.4	1.6	3.3	7.9	19.4	57.4	173.6	489.3
	Male	28.0	21.6	3.6	2.5	0.9	1.4	4.0	7.4	16.7	74.5	206.3	524.7
	Female	33.4	-	1.9	1.3	1.9	1.8	2.6	8.3	21.9	42.9	148.5	469.3

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, 1998 (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+
320-322	Meningitis	0.2	2.2	1.4	0.2	-	-	-	-	-	-	1.1	1.7
	Male	0.4	4.3	1.8	0.4	-	-	-	-	-	-	2.5	2.4
	Female	0.1	-	0.9	-	-	-	-	-	-	-	-	1.3
331.0	Alzheimer's Disease	12.6	-	-	-	-	-	-	0.2	1.1	12.7	60.7	275.0
	Male	8.3	-	-	-	-	-	-	-	1.5	15.3	54.0	223.2
	Female	16.8	-	-	-	-	-	-	0.4	0.7	10.5	65.8	304.3
332	Parkinson's Disease	8.4	-	-	-	-	-	-	0.4	0.4	14.5	65.0	152.5
	Male	10.1	-	-	-	-	-	-	0.4	0.8	22.9	100.7	230.3
	Female	6.7	-	-	-	-	-	-	0.4	-	7.3	37.6	108.6
345	Epilepsy	0.5	2.2	-	0.2	0.5	0.9	0.4	0.2	0.7	0.9	-	0.9
	Male	0.4	4.3	-	-	-	1.4	0.4	-	0.8	-	-	-
	Female	0.6	-	-	0.4	0.9	0.5	0.4	0.4	0.7	1.6	-	1.3
Residual of 320-389	Other Disease of the Nervous System & Sense Organs	9.0	6.6	1.4	1.5	0.9	0.7	2.9	7.0	17.2	29.4	46.9	59.1
	Male	8.8	12.9	1.8	2.1	0.9	-	3.7	7.0	13.6	36.3	49.1	68.8
	Female	9.2	-	0.9	0.9	0.9	1.4	2.2	7.0	20.5	23.5	45.1	53.6
VII.	Diseases of the Circulatory System	330.4	22.1	0.9	0.7	2.7	6.4	28.2	87.0	285.3	758.0	1,703.9	5,211.3
	Male	319.5	12.9	0.9	0.8	4.4	9.1	41.0	121.5	396.3	1,031.4	2,090.5	5,422.3
	Female	341.1	31.7	0.9	0.4	0.9	3.7	15.2	52.3	181.7	526.2	1,408.1	5,092.1
390-448	Major Cardiovascular Diseases	329.0	22.1	0.9	0.7	2.7	6.4	27.8	86.1	282.7	754.5	1,699.6	5,193.3
	Male	318.1	12.9	0.9	0.8	4.4	9.1	40.3	120.1	392.5	1,027.6	2,085.6	5,408.1
	Female	339.7	31.7	0.9	0.4	0.9	3.7	15.2	51.8	180.3	522.9	1,404.3	5,072.0
390-398, 402,404- 429	Diseases of the Heart	223.2	17.7	0.9	0.4	2.3	4.6	22.1	69.4	222.4	551.2	1,151.2	3,312.5
	Male	230.2	8.6	0.9	0.8	3.5	7.3	34.0	102.2	323.6	770.7	1,518.1	3,591.9
	Female	216.3	27.2	0.9	-	0.9	1.8	10.0	36.5	128.0	365.1	870.4	3,154.7
390-398	Rheumatic Fever & Chronic Rheumatic Heart Disease	2.6	-	-	-	-	-	0.9	0.2	2.9	7.0	11.7	36.8
	Male	1.6	-	-	-	-	-	1.1	0.4	3.8	3.8	9.8	21.4
	Female	3.5	-	-	-	-	-	0.7	-	2.1	9.7	13.2	45.6
402,404	Hypertensive Heart Disease With or Without Renal Disease	7.5	-	-	-	-	0.2	0.6	3.3	4.8	14.0	27.7	133.7
	Male	4.9	-	-	-	-	-	1.1	4.4	6.8	7.6	24.6	92.6
	Female	10.1	-	-	-	-	0.5	-	2.2	2.8	19.4	30.1	156.9

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Rates per 100,000 population.

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**TABLE 6-7.
Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1998 (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	143.4	-	-	-	0.5	1.4	13.8	48.2	161.7	397.0	788.1	1,965.6
	Male	160.9	-	-	-	0.9	2.7	22.0	76.9	245.5	580.7	1,110.3	2,310.0
	Female	126.2	-	-	-	-	-	5.6	19.3	83.4	241.2	541.4	1,771.1
410	Myocardial Infarction	55.7	-	-	-	0.2	0.5	4.4	17.1	73.2	161.2	336.5	711.2
	Male	61.3	-	-	-	0.4	0.9	6.6	23.6	110.6	231.1	447.1	819.0
	Female	50.2	-	-	-	-	-	2.2	10.5	38.2	102.0	251.9	650.3
411	Other Acute & Subacute Ischemic Heart Disease	0.0	-	-	-	-	-	-	-	-	-	-	0.9
	Male	-	-	-	-	-	-	-	-	-	-	-	-
	Female	0.1	-	-	-	-	-	-	-	-	-	-	1.3
412-414	Chronic Ischemic Heart Disease	87.7	-	-	-	0.2	0.9	9.4	31.1	88.5	235.7	451.5	1,253.6
	Male	99.7	-	-	-	0.4	1.8	15.4	53.3	134.9	349.5	663.3	1,490.9
	Female	75.9	-	-	-	-	-	3.3	8.8	45.3	139.2	289.5	1,119.5
415-429	All Other Forms	69.7	17.7	0.9	0.4	1.8	3.0	6.8	17.7	53.0	133.2	323.7	1,176.4
	Male	62.8	8.6	0.9	0.8	2.6	4.6	9.9	20.5	67.4	178.6	373.4	1,168.0
	Female	76.4	27.2	0.9	-	0.9	1.4	3.7	14.9	39.6	94.7	285.7	1,181.2
401,403	Hypertension	6.2	-	-	-	-	-	-	0.7	4.8	13.1	39.4	101.1
	Male	4.7	-	-	-	-	-	-	0.9	7.6	11.5	44.2	80.7
	Female	7.6	-	-	-	-	-	-	0.4	2.1	14.6	35.7	112.6
430-438	Cerebrovascular Disease	80.7	4.4	-	0.2	0.5	1.6	4.4	12.5	42.8	145.5	386.6	1,483.2
	Male	63.4	4.3	-	-	0.9	1.4	4.0	12.7	46.2	171.9	370.9	1,391.2
	Female	97.6	4.5	-	0.4	-	1.8	4.8	12.3	39.6	123.0	398.5	1,535.1
430	Subarachnoid Hemorrhage	2.4	-	-	-	0.2	0.7	2.0	2.4	6.9	6.6	4.3	13.7
	Male	1.8	-	-	-	0.4	0.5	0.7	3.1	6.8	3.8	2.5	9.5
	Female	3.1	-	-	-	-	0.9	3.3	1.8	7.1	8.9	5.6	16.1
431-432	Intracerebral & Intracranial Hemorrhages	10.3	2.2	-	0.2	-	0.9	1.5	5.3	9.9	34.6	60.7	116.5
	Male	9.3	-	-	-	-	0.9	2.2	4.4	11.4	42.0	54.0	121.1
	Female	11.3	4.5	-	0.4	-	0.9	0.7	6.1	8.5	28.3	65.8	114.0
434	Cerebral Thrombosis & Embolism	10.1	-	-	-	-	-	-	0.4	4.0	14.9	42.6	208.2
	Male	7.7	-	-	-	-	-	-	-	4.5	18.1	54.0	182.8
	Female	12.5	-	-	-	-	-	-	0.9	3.5	12.1	33.8	222.6
436	Acute but Ill-defined Cerebrovascular Disease	45.0	-	-	-	-	-	0.6	3.1	16.1	69.7	214.1	898.8
	Male	34.4	-	-	-	-	-	0.7	4.4	15.9	87.9	179.3	849.9
	Female	55.4	-	-	-	-	-	0.4	1.8	16.3	54.2	240.6	926.4

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TABLE 6-7.
Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1998 (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+
437	Generalized Ischemic Cerebrovascular Disease	7.1	2.2	-	-	0.2	-	0.2	0.9	2.2	11.0	36.2	137.1
	Male	5.8	4.3	-	-	0.4	-	-	0.9	2.3	10.5	46.7	135.3
	Female	8.4	-	-	-	-	-	0.4	0.9	2.1	11.3	28.2	138.1
440	Arteriosclerosis	7.0	-	-	-	-	-	0.2	0.7	5.5	11.4	36.2	127.7
	Male	5.9	-	-	-	-	-	0.4	0.9	8.3	19.1	41.8	104.5
	Female	8.1	-	-	-	-	-	-	0.4	2.8	4.9	32.0	140.8
441-448	Other Diseases of the Arteries, Arterioles, and Capillaries	12.1	-	-	-	-	0.2	1.1	2.8	7.3	33.3	86.3	168.8
	Male	14.0	-	-	-	-	0.5	1.8	3.5	6.8	54.4	110.5	239.8
	Female	10.2	-	-	-	-	-	0.4	2.2	7.8	15.4	67.7	128.7
441	Aortic Aneurysm	7.6	-	-	-	-	0.2	0.6	2.2	4.4	24.1	59.6	95.1
	Male	9.5	-	-	-	-	0.5	1.1	3.5	4.5	38.2	73.7	154.3
	Female	5.8	-	-	-	-	-	-	0.9	4.2	12.1	48.9	61.7
451-453	Venous Thrombosis & Embolism	0.6	-	-	-	-	-	0.4	-	1.5	0.9	1.1	7.7
	Male	0.6	-	-	-	-	-	0.7	-	2.3	1.0	-	7.1
	Female	0.5	-	-	-	-	-	-	-	0.7	0.8	1.9	8.0
Residual of 390-459	Other Diseases of the Circulatory System	0.9	-	-	-	-	-	-	0.9	1.1	2.6	3.2	10.3
	Male	0.8	-	-	-	-	-	-	1.3	1.5	2.9	4.9	7.1
	Female	0.9	-	-	-	-	-	-	0.4	0.7	2.4	1.9	12.1
VIII.	Disease of the Respiratory System	92.8	6.6	0.5	0.7	0.9	1.6	4.8	14.7	74.6	263.8	639.0	1,298.1
	Male	92.3	8.6	0.9	1.3	0.9	2.7	6.2	17.0	78.8	309.4	754.2	1,628.6
	Female	93.3	4.5	-	-	0.9	0.5	3.3	12.3	70.7	225.0	550.8	1,111.5
480-487	Pneumonia & Influenza	30.9	-	-	0.2	0.2	0.9	2.6	5.3	14.6	38.6	154.4	593.8
	Male	28.5	-	-	0.4	-	1.4	2.6	5.7	17.4	39.2	186.7	702.7
	Female	33.3	-	-	-	0.5	0.5	2.6	4.8	12.0	38.0	129.7	532.3
480-486	Pneumonia	30.7	-	-	0.2	0.2	0.9	2.4	5.3	14.6	38.6	153.4	590.4
	Male	28.3	-	-	0.4	-	1.4	2.6	5.7	17.4	39.2	184.2	698.0
	Female	33.1	-	-	-	0.5	0.5	2.2	4.8	12.0	38.0	129.7	529.6
487	Influenza	0.2	-	-	-	-	-	0.2	-	-	-	1.1	3.4
	Male	0.2	-	-	-	-	-	-	-	-	-	2.5	4.7
	Female	0.2	-	-	-	-	-	0.4	-	-	-	-	2.7

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TABLE 6-7.
Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1998 (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	50.1	-	-	0.2	0.2	0.2	1.3	7.2	51.2	195.8	407.9	535.5
	Male	50.7	-	-	0.4	0.4	0.5	2.2	7.9	50.8	231.1	444.6	719.3
	Female	49.5	-	-	-	-	-	0.4	6.6	51.6	166.0	379.7	431.7
490-491	Chronic & Unspecified Bronchitis	1.2	-	-	-	-	-	-	0.2	0.7	3.9	7.5	18.0
	Male	0.9	-	-	-	-	-	-	-	0.8	5.7	4.9	14.2
	Female	1.5	-	-	-	-	-	-	0.4	0.7	2.4	9.4	20.1
492	Emphysema	9.9	-	-	-	-	-	0.2	2.2	12.8	43.8	93.7	78.0
	Male	10.4	-	-	-	-	-	0.4	2.6	13.6	52.5	90.9	121.1
	Female	9.5	-	-	-	-	-	-	1.8	12.0	36.4	95.9	53.6
493	Asthma	2.9	-	-	0.2	0.2	0.2	0.4	1.1	4.4	6.1	14.9	39.4
	Male	2.0	-	-	0.4	0.4	0.5	0.4	0.4	1.5	4.8	9.8	38.0
	Female	3.9	-	-	-	-	-	0.4	1.8	7.1	7.3	18.8	40.2
494	Bronchiectasis	0.8	-	-	-	-	-	0.2	-	0.4	1.8	11.7	8.6
	Male	0.7	-	-	-	-	-	0.4	-	0.8	1.9	9.8	7.1
	Female	1.0	-	-	-	-	-	-	-	-	1.6	13.2	9.4
496	Chronic Airway Obstruction Not Elsewhere Classified (COPD)	35.2	-	-	-	-	-	0.6	3.7	32.9	140.2	280.1	390.7
	Male	36.7	-	-	-	-	-	1.1	4.8	34.1	166.2	329.2	536.5
	Female	33.7	-	-	-	-	-	-	2.6	31.8	118.2	242.5	308.4
Residual of 460-519	Other Diseases of the Respiratory System	11.8	6.6	0.5	0.2	0.5	0.5	0.9	2.2	8.8	29.4	76.7	169.7
	Male	13.1	8.6	0.9	0.4	0.4	0.9	1.5	3.5	10.6	39.2	122.8	208.9
	Female	10.5	4.5	-	-	0.5	-	0.4	0.9	7.1	21.0	41.4	147.5
IX. Diseases of the Digestive System		30.5	4.4	0.9	0.2	0.5	1.8	10.9	23.2	43.9	73.2	134.2	346.2
	Male	29.8	8.6	0.9	0.4	0.4	2.7	12.4	29.7	58.3	87.9	132.7	344.2
	Female	31.2	-	0.9	-	0.5	0.9	9.3	16.7	30.4	60.7	135.4	347.3
531	Ulcer of the Stomach	0.4	-	-	-	-	0.2	0.2	0.4	0.4	0.9	3.2	3.4
	Male	0.3	-	-	-	-	0.5	0.4	-	-	1.0	-	4.7
	Female	0.5	-	-	-	-	-	-	0.9	0.7	0.8	5.6	2.7
532	Ulcer of the Duodenum	0.3	-	-	-	-	-	-	-	0.4	1.3	1.1	5.1
	Male	0.3	-	-	-	-	-	-	-	-	1.9	2.5	4.7
	Female	0.4	-	-	-	-	-	-	-	0.7	0.8	-	5.4

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TABLE 6-7.
Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1998 (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+
533	Peptic Ulcer	0.6	-	-	-	-	-	-	-	0.4	1.3	5.3	8.6
	Male	0.4	-	-	-	-	-	-	-	-	1.0	7.4	4.7
	Female	0.8	-	-	-	-	-	-	-	0.7	1.6	3.8	10.7
550-553, 560	Hernia & Intestinal Obstruction	2.4	2.2	-	-	-	-	-	0.2	1.8	4.8	7.5	46.3
	Male	2.1	4.3	-	-	-	-	-	-	3.0	3.8	9.8	49.9
	Female	2.7	-	-	-	-	-	-	0.4	0.7	5.7	5.6	44.2
571	Cirrhosis of the Liver	9.9	-	-	-	-	1.1	7.2	16.4	26.0	28.0	38.3	29.1
	Male	12.4	-	-	-	-	1.4	7.3	22.7	36.4	43.0	31.9	45.1
	Female	7.5	-	-	-	-	0.9	7.1	10.1	16.3	15.4	43.2	20.1
571.0-3	Alcoholic Cirrhosis of the Liver	7.5	-	-	-	-	0.7	6.6	15.1	20.5	19.7	20.2	14.6
	Male	10.3	-	-	-	-	0.9	6.6	21.4	32.6	33.4	22.1	26.1
	Female	4.7	-	-	-	-	0.5	6.7	8.8	9.2	8.1	18.8	8.0
574-576	Diseases of the Gallbladder	1.7	-	-	-	-	0.2	0.2	0.2	2.2	3.9	6.4	28.3
	Male	1.4	-	-	-	-	0.5	0.4	-	2.3	3.8	4.9	26.1
	Female	2.1	-	-	-	-	-	-	0.4	2.1	4.0	7.5	29.5
577	Diseases of the Pancreas	1.0	-	-	-	-	-	0.9	1.3	0.7	2.6	3.2	8.6
	Male	1.2	-	-	-	-	-	1.1	1.7	0.8	3.8	2.5	14.2
	Female	0.8	-	-	-	-	-	0.7	0.9	0.7	1.6	3.8	5.4
Residual of 520-579	Other Diseases of the Digestive System	14.1	2.2	0.9	0.2	0.5	0.2	2.4	4.6	12.1	30.2	69.2	216.8
	Male	11.8	4.3	0.9	0.4	0.4	0.5	3.3	5.2	15.9	29.6	73.7	194.7
	Female	16.4	-	0.9	-	0.5	-	1.5	4.0	8.5	30.8	65.8	229.3
X.	Diseases of the Genitourinary System	11.8	-	-	0.2	0.2	0.5	0.6	1.5	5.1	22.8	52.2	219.4
	Male	11.8	-	-	0.4	0.4	0.9	0.4	2.2	4.5	27.7	78.6	268.3
	Female	11.8	-	-	-	-	-	0.7	0.9	5.7	18.6	32.0	191.7
580-589	Nephritis & Nephrosis	5.4	-	-	0.2	-	0.2	-	0.9	2.2	11.0	25.6	100.3
	Male	6.1	-	-	0.4	-	0.5	-	1.7	0.8	15.3	41.8	137.7
	Female	4.8	-	-	-	-	-	-	-	3.5	7.3	13.2	79.1
590	Infections of the Kidney	0.2	-	-	-	-	-	-	-	0.4	-	1.1	5.1
	Male	0.1	-	-	-	-	-	-	-	-	-	2.5	2.4
	Female	0.4	-	-	-	-	-	-	-	0.7	-	-	6.7
599.0	Urinary Tract Infection	4.3	-	-	-	-	-	0.2	0.2	0.7	7.4	17.0	87.4
	Male	3.3	-	-	-	-	-	0.4	0.4	0.8	8.6	24.6	73.6
	Female	5.2	-	-	-	-	-	-	-	0.7	6.5	11.3	95.2

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, 1998 (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+
600-608	Disease of the Male Genital Organs	0.3	-	-	-	-	-	-	-	0.4	-	-	7.7
	Male	0.6	-	-	-	-	-	-	-	0.8	-	-	21.4
	Female	-	-	-	-	-	-	-	-	-	-	-	-
614-629	Diseases of the Uterus & Other Female Genital Organs	0.2	-	-	-	-	-	-	0.2	-	0.4	1.1	1.7
	Male	-	-	-	-	-	-	-	-	-	-	-	-
	Female	0.4	-	-	-	-	-	-	0.5	-	0.8	1.9	2.7
Residual of 580-629	Other Diseases of the Genitourinary System	1.3	-	-	-	0.2	0.2	-	0.2	1.5	3.9	7.5	17.1
	Male	7.0	-	-	-	0.4	0.5	-	-	2.3	3.8	9.8	33.2
	Female	1.0	-	-	-	-	-	-	0.4	0.7	4.0	5.6	8.0
630-676	XI. Complications of Pregnancy, Childbirth, & the Puerperium	0.2	-	-	-	0.2	0.5	0.2	-	0.4	-	-	-
	Male	-	-	-	-	-	-	-	-	-	-	-	-
	Female	0.3	-	-	-	0.5	0.9	0.4	-	0.7	-	-	-
680-709	XII. Diseases of the Skin & Subcutaneous Tissue	1.1	-	-	-	-	-	-	0.4	0.4	2.6	7.5	17.1
	Male	1.1	-	-	-	-	-	-	0.4	-	2.9	7.4	23.7
	Female	1.2	-	-	-	-	-	-	0.4	0.7	2.4	7.5	13.4
710-739	XIII. Musculoskeletal System & Connective Tissue Diseases	5.5	-	-	-	-	0.2	1.3	1.1	4.0	12.3	60.3	94.3
	Male	2.7	-	-	-	-	-	1.5	0.9	3.8	5.7	31.4	52.2
	Female	8.2	-	-	-	-	0.5	1.1	1.3	4.2	17.8	79.0	118.0
740-759	XIV. Congenital Anomalies	4.7	174.7	2.3	0.9	1.4	0.2	1.8	1.1	1.8	2.6	7.5	22.3
	Male	5.0	185.6	2.7	0.8	1.3	0.5	1.8	0.9	1.5	2.9	14.7	26.1
	Female	4.4	163.2	1.9	0.9	1.4	-	1.9	1.3	2.1	2.4	1.9	20.1
745-746	Congenital Anomalies of the Heart	1.6	70.8	1.4	-	0.7	-	1.1	0.2	-	0.4	-	5.1
	Male	1.9	82.0	1.8	-	0.9	-	1.5	0.4	-	-	-	4.7
	Female	1.3	58.9	0.9	-	0.5	-	0.7	-	-	0.8	-	5.4
Residual of 740-759	Other Congenital Anomalies	3.1	103.9	0.9	0.9	0.7	0.2	0.7	0.9	1.8	2.2	7.5	17.1
	Male	3.2	103.6	0.9	0.8	0.4	0.5	0.4	0.4	1.5	2.9	14.7	21.1
	Female	3.1	104.3	0.9	0.9	0.9	-	1.1	1.3	2.1	1.6	1.9	14.7

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Rates per 100,000 population.

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TABLE 6-7.
Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1998 (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+
XV.	Perinatal Conditions	2.4	172.5	0.5	-	-	-	-	-	-	-	-	-
760-779	Male	2.7	181.3	0.9	-	-	-	-	-	-	-	-	-
	Female	2.2	163.2	-	-	-	-	-	-	-	-	-	-
XVI.	Symptoms & Ill-defined Conditions	19.8	106.1	-	0.4	0.9	1.4	3.1	7.9	23.0	41.2	67.1	268.2
780-799	Male	19.7	120.8	-	0.4	0.9	2.3	4.4	12.7	32.6	54.4	88.4	249.3
	Female	19.9	90.7	-	0.4	0.9	0.5	1.9	3.1	14.1	30.0	50.8	278.9
797	Senility	1.4	-	-	-	-	-	-	-	-	0.9	1.1	36.0
	Male	1.0	-	-	-	-	-	-	-	-	-	-	38.0
	Female	1.8	-	-	-	-	-	-	-	-	1.6	1.9	34.9
798	Sudden Infant Death Syndrome	1.4	99.5	-	-	-	-	-	-	-	-	-	-
	Male	1.7	116.5	-	-	-	-	-	-	-	-	-	-
	Female	1.1	81.6	-	-	-	-	-	-	-	-	-	-
Residual of 780-799	Other Symptoms & Ill-defined Conditions	17.0	6.6	-	0.4	0.9	1.4	3.1	7.9	23.0	40.3	66.0	232.2
	Male	17.0	4.3	-	0.4	0.9	2.3	4.4	12.7	32.6	54.4	88.4	211.3
	Female	17.0	9.1	-	0.4	0.9	0.5	1.9	3.1	14.1	28.3	48.9	244.0
XVII.	Accidents, Poisoning, & Violence	64.4	19.9	9.7	11.5	67.1	71.5	75.9	60.2	53.4	64.0	136.3	259.6
800-999	Male	91.1	21.6	12.7	12.7	100.4	106.8	116.4	85.6	84.1	94.5	199.0	368.0
	Female	38.2	18.1	6.6	10.3	31.6	35.9	34.9	34.7	24.7	38.0	88.4	198.4
800-949	Accidents	40.9	15.5	7.9	8.5	44.6	38.7	44.0	32.2	27.1	43.4	101.2	216.8
	Male	55.2	12.9	10.8	8.5	63.3	58.9	68.1	48.9	40.9	60.2	125.3	277.8
	Female	26.9	18.1	4.7	8.5	24.7	18.4	19.7	15.4	14.1	29.1	82.7	182.3
810-825	Motor Vehicle Accidents	16.7	2.2	4.2	3.9	33.8	16.0	17.5	12.7	10.2	23.7	34.1	25.7
	Male	22.3	4.3	4.5	3.8	46.7	21.9	22.7	17.5	15.9	35.3	39.3	35.6
	Female	11.1	-	3.8	4.0	20.0	10.1	12.2	7.9	4.9	13.8	30.1	20.1
830-838	Water Transport Accidents	0.5	-	0.5	0.2	0.7	0.5	0.6	0.7	0.7	0.4	-	0.9
	Male	1.1	-	0.9	0.4	1.3	0.9	1.1	1.3	1.5	1.0	-	2.4
	Female	-	-	-	-	-	-	-	-	-	-	-	-
840-845	Air Transport Accidents	0.5	-	-	0.2	0.2	0.2	0.7	1.1	0.4	0.4	1.1	-
	Male	0.7	-	-	-	0.4	0.5	1.5	1.3	0.8	1.0	2.5	-
	Female	0.2	-	-	0.4	-	-	-	0.9	-	-	-	-
850-869	Poisoning Accidents	6.5	-	-	-	3.4	13.8	15.1	9.0	4.0	0.9	2.1	0.9
	Male	10.8	-	-	-	4.8	22.4	26.0	14.4	6.8	-	2.5	-
	Female	2.4	-	-	-	1.9	5.1	4.1	3.5	1.4	1.6	1.9	1.3

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Rates per 100,000 population.

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**TABLE 6-7.
Death Rates for Selected Causes by Age and Sex, Oregon Residents, 1998 (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+
880-888	Accidental Falls	8.5	-	-	-	1.4	1.1	2.2	1.5	3.3	8.3	42.6	154.2
	Male	8.5	-	-	-	1.7	2.3	3.3	2.6	4.5	5.7	54.0	189.9
	Female	8.5	-	-	-	0.9	-	1.1	0.4	2.1	10.5	33.8	134.1
890-899	Fire & Flame Accidents	0.8	2.2	0.9	0.9	-	0.5	0.4	0.7	0.4	0.9	4.3	4.3
	Male	0.9	4.3	1.8	0.4	-	0.5	0.7	0.9	-	1.9	2.5	4.7
	Female	0.7	-	-	1.3	-	0.5	-	0.4	0.7	-	5.6	4.0
910	Drowning & Submersion	1.9	-	0.5	1.1	3.8	2.5	1.7	1.5	1.8	0.9	2.1	1.7
	Male	3.0	-	0.9	1.3	6.1	3.2	2.9	2.6	2.3	1.9	4.9	4.7
	Female	0.8	-	-	0.9	1.4	1.8	0.4	0.4	1.4	-	-	-
950-959	Suicides	17.4	-	-	1.7	14.4	22.0	22.8	22.6	20.5	18.0	34.1	38.6
	Male	28.0	-	-	2.5	24.9	33.3	36.6	30.6	35.6	33.4	73.7	83.1
	Female	7.0	-	-	0.9	3.3	10.6	8.9	14.5	6.4	4.9	3.8	13.4
960-978	Homicides	4.3	2.2	0.9	1.1	7.2	8.9	6.4	1.8	4.0	2.2	1.1	2.6
	Male	6.0	4.3	0.9	1.3	10.9	12.3	8.1	2.6	6.8	1.0	-	4.7
	Female	2.7	-	0.9	0.9	3.3	5.5	4.8	0.9	1.4	3.2	1.9	1.3
980-989	Injuries Undetermined Whether Accidentally or Purposely Inflicted	1.7	2.2	0.9	0.2	0.9	1.8	2.4	3.7	1.8	0.4	-	1.7
	Male	1.9	4.3	0.9	0.4	1.3	2.3	3.7	3.5	0.8	-	-	2.4
	Female	1.4	-	0.9	-	0.5	1.4	1.1	4.0	2.8	0.8	-	1.3
990-999	Injury Resulting From Operations of War	-	-	-	-	-	-	-	-	-	-	-	-
	Male	-	-	-	-	-	-	-	-	-	-	-	-
	Female	-	-	-	-	-	-	-	-	-	-	-	-

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- 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, 1998

Cause of Death	Total	Month of Death											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total	29,346	2,778	2,347	2,565	2,476	2,328	2,306	2,375	2,393	2,302	2,459	2,398	2,619
Diseases of the Heart	7,276	695	584	657	654	591	519	574	599	566	626	555	656
Malignant Neoplasms	7,007	613	536	594	588	552	592	587	600	548	627	593	577
Cerebrovascular Disease	2,636	259	222	214	218	220	209	218	210	205	199	218	244
Chronic Obstructive Pulmonary Disease	1,638	171	168	158	133	145	118	134	102	124	131	122	132
Unintentional Injuries	1,337	107	90	110	103	103	105	123	146	129	104	122	95
Pneumonia and Influenza	1,010	132	102	115	85	68	64	66	55	69	77	86	91
Diabetes Mellitus	870	68	81	77	80	83	75	65	64	68	65	72	72
Alzheimer's Disease	806	80	50	66	80	56	67	53	70	67	60	63	94
Suicide	569	50	43	56	43	35	58	47	55	52	39	40	51
Other Diseases of the Arteries	394	34	28	25	28	24	30	33	35	26	38	39	54
Alcoholism and Allied Conditions ¹	366	27	30	29	25	33	36	25	32	22	39	29	39
Parkinson's Disease	273	31	21	27	22	24	22	16	21	25	20	18	26
Arteriosclerosis	228	23	17	21	19	11	16	16	18	26	19	16	26
Hypertension With or Without Renal Disease	201	23	15	15	25	9	24	11	9	8	21	20	21
Nephritis and Nephrosis	178	17	8	12	11	18	14	14	19	13	14	18	20
Septicemia	163	16	9	11	10	12	17	12	9	14	18	21	14
Congenital Anomalies	154	15	9	12	14	12	6	14	15	8	19	15	15
Homicide and Legal Intervention	142	11	13	9	9	9	11	17	12	11	15	14	11
Perinatal Conditions	79	6	7	10	7	6	8	5	6	5	7	5	7
Hernia & Intestinal Obstruction	79	5	6	9	10	4	3	8	6	5	14	4	5
All Other Causes	3,940	395	308	338	312	313	312	337	310	311	307	328	369

1. Includes the alcohol-linked disorders represented by ICD-9 codes 291.0-291.9, 303, 305.0, 357.5, 425.5, 535.3 and 571.0-571.3.

TABLE 6-9.
Deaths by Age, Race, and Ethnicity, Oregon Residents, 1998

Race and Ethnicity	Total	Age at Death								
		< 1	1-4	5-14	15-19	20-24	25-29	30-34	35-39	40-44
Total	29,346	246	48	93	155	222	223	257	425	627
Hispanic	441	47	7	7	12	28	28	19	26	22
Non-Hispanic ¹	28,905	199	41	86	143	194	195	238	399	605
White	28,440	221	45	88	141	203	204	237	402	583
Hispanic	424	45	7	7	11	27	28	18	24	22
Non-Hispanic ¹	28,016	176	38	81	130	176	176	219	378	561
African American	377	13	-	1	7	5	12	8	8	20
Hispanic	3	1	-	-	-	-	-	-	1	-
Non-Hispanic ¹	374	12	-	1	7	5	12	8	7	20
Indian	235	5	2	2	5	6	3	8	9	13
Hispanic	8	-	-	-	1	-	-	-	1	-
Non-Hispanic ¹	227	5	2	2	4	6	3	8	8	13
Chinese	73	-	1	1	-	-	1	2	-	2
Non-Hispanic ¹	73	-	1	1	-	-	1	2	-	2
Japanese	58	-	-	-	-	2	-	-	2	-
Non-Hispanic ¹	58	-	-	-	-	2	-	-	2	-
Other Asian & Pacific Islander	115	4	-	1	2	5	3	1	3	7
Hispanic	3	-	-	-	-	-	-	-	-	-
Non-Hispanic ¹	112	4	-	1	2	5	3	1	3	7
Other & Unknown²	48	3	-	-	-	1	-	1	1	2
Hispanic	3	1	-	-	-	1	-	1	-	-
Non-Hispanic ¹	45	2	-	-	-	-	-	-	1	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+
Total	760	928	1,120	1,543	2,167	3,200	4,333	4,728	4,252	4,019
Hispanic	22	20	20	25	19	35	38	27	21	18
Non-Hispanic ¹	738	908	1,100	1,518	2,148	3,165	4,295	4,701	4,231	4,001
White	704	880	1,054	1,481	2,087	3,090	4,239	4,628	4,188	3,965
Hispanic	19	18	20	24	19	35	38	24	20	18
Non-Hispanic ¹	685	862	1,034	1,457	2,068	3,055	4,201	4,604	4,168	3,947
African American	25	24	26	23	30	36	42	48	28	21
Hispanic	-	1	-	-	-	-	-	-	-	-
Non-Hispanic ¹	25	23	26	23	30	36	42	48	28	21
Indian	19	15	20	23	23	28	13	20	9	12
Hispanic	2	1	-	1	-	-	-	1	1	-
Non-Hispanic ¹	17	14	20	22	23	28	13	19	8	12
Chinese	1	2	3	6	4	9	13	10	11	7
Non-Hispanic ¹	1	2	3	6	4	9	13	10	11	7
Japanese	1	1	1	3	7	13	16	8	2	2
Non-Hispanic ¹	1	1	1	3	7	13	16	8	2	2
Other Asian & Pacific Islander	6	2	11	4	12	19	7	13	9	6
Hispanic	1	-	-	-	-	-	-	2	-	-
Non-Hispanic ¹	5	2	11	4	12	19	7	11	9	6
Other & Unknown²	4	4	5	3	4	5	3	1	5	6
Hispanic	-	-	-	-	-	-	-	-	-	-
Non-Hispanic ¹	4	4	5	3	4	5	3	1	5	6

1 NOTE: includes a small number with unknown ethnicity.

2 "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, 1998

Selected Causes of Death	RACE							Hispanic ²
	Total	White	African American	Indian	Chinese & Japanese	Other Asian & Pac. Isl.	Other & N.S. ¹	
Total	29,346	28,440	377	235	131	115	48	441
Tuberculosis (010-018, 137)	12	10	-	1	1	-	-	1
Septicemia (038)	163	158	3	2	-	-	-	4
AIDS (042-044)	71	66	4	1	-	-	-	-
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	76	69	4	2	-	1	-	2
Other infective & parasitic diseases (residual 001-139)	92	91	1	-	-	-	-	2
Malignant neoplasms (140-208)	7,007	6,804	79	41	45	24	14	57
Buccal cavity & pharynx (140-149)	120	118	1	-	-	1	1	-
Digestive organs & peritoneum (150-159)	1,502	1,449	20	7	11	12	3	11
Large intestine (153)	570	557	6	2	3	2	-	1
Pancreas (157)	361	347	8	1	3	1	1	3
Respiratory and intrathoracic organs (160-165)	2,121	2,069	17	17	14	2	2	11
Bronchus and lung (162.2-162.9)	2,065	2,015	15	17	14	2	2	10
Malignant melanoma (172)	106	106	-	-	-	-	-	-
Other skin (173)	21	21	-	-	-	-	-	-
Breast (174-175)	531	510	8	3	6	2	2	6
Genital organs (179-187)	813	786	14	2	5	4	2	12
Cervix & uterus (179-182)	133	127	4	-	1	1	-	5
Ovary (183.0)	197	191	2	1	1	2	-	3
Prostate (185)	461	447	8	1	3	1	1	4
Urinary organs (188-189)	330	320	3	3	3	1	-	1
Leukemia (204-208)	252	248	-	2	1	-	1	2
Benign neoplasms (210-229)	16	13	3	-	-	-	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	59	58	1	-	-	-	-	-
Diabetes mellitus (250)	870	822	20	17	6	5	-	28
Nutritional deficiencies (260-269)	43	41	2	-	-	-	-	-
Anemias (280-285)	50	50	-	-	-	-	-	2
Alzheimer's dementia (290.1)	395	385	7	1	1	1	-	3
Alcoholic psychoses & alcoholism (291, 303)	105	95	2	7	-	-	1	1
Drug dependence (304)	20	19	-	1	-	-	-	1
Meningitis (320-322)	8	8	-	-	-	-	-	-
Alzheimer's disease (331.0)	411	404	3	3	-	1	-	7
Parkinson's disease (332.0)	275	272	3	-	-	-	-	1
Epilepsy (345)	16	15	-	1	-	-	-	-
Major cardiovascular diseases (390-448)	10,751	10,474	130	58	42	37	10	101
Diseases of the heart (390-398, 402, 404-429)	7,292	7,111	84	43	25	22	7	70
Rheumatic fever & chronic rheumatic heart disease (390-398)	84	78	2	1	2	-	1	1
Hypertensive heart disease with or without renal disease (402,404)	246	239	3	2	1	1	-	2
Ischemic heart disease (410-414)	4,685	4,565	48	32	19	17	4	45
Myocardial infarction (410)	1,819	1,773	15	14	8	9	-	24
Other acute & subacute (411)	1	1	-	-	-	-	-	-
Chronic ischemic heart disease (412-414)	2,865	2,791	33	18	11	8	4	21
All other forms (415-429)	2,277	2,229	31	8	3	4	2	22
Hypertension (401, 403)	201	195	4	-	2	-	-	1
Cerebrovascular disease (430-438)	2,636	2,564	33	10	13	13	3	26
Subarachnoid hemorrhage (430)	80	77	1	-	-	2	-	3
Intracerebral & intracranial hemorrhages (431-432)	337	319	6	1	1	8	2	7
Cerebral thrombosis & embolism (434)	330	325	3	1	-	1	-	1
Acute but ill-defined cerebrovascular disease (436)	1,470	1,436	17	6	9	1	1	12
Generalized ischemic cerebrovascular disease (437)	232	228	3	-	1	-	-	1
Arteriosclerosis (440)	228	225	1	1	-	1	-	1
Other diseases of arteries, arterioles and capillaries (441-448)	394	379	8	4	2	1	-	3
Venous thrombosis & embolism (451-453)	18	18	-	-	-	-	-	-
Pneumonia (480-486)	1,004	980	11	1	4	6	2	6
Influenza (487)	6	6	-	-	-	-	-	-
Bronchitis, emphysema, asthma and COPD (490-496)	1,638	1,604	14	9	2	5	4	8
Gastric, duodenal, or peptic ulcer (531-533)	44	44	-	-	-	-	-	-
Hernia & intestinal obstruction (550-553, 560)	79	79	-	-	-	-	-	1
Cirrhosis of the liver (571)	324	306	4	12	1	-	1	4
Alcoholic cirrhosis (571.0-571.3)	245	231	3	10	-	-	1	3
Diseases of the gallbladder (574-576)	57	57	-	-	-	-	-	-
Nephritis & nephrosis (580-589)	178	168	4	-	2	2	2	2
Infections of the kidney (590)	8	8	-	-	-	-	-	-
Diseases of the male genital organs (600-608)	10	9	-	1	-	-	-	-
Disease of the uterus and other female genital organs (614-629)	7	7	-	-	-	-	-	-
Complications of pregnancy, childbirth & the puerperium (630-676)	5	3	2	-	-	-	-	1
Congenital anomalies (740-759)	154	144	6	1	-	2	1	16
Certain causes in early infancy (760-779)	79	75	3	1	-	-	-	20
Sudden infant death syndrome (798.0)	45	41	1	2	-	1	-	8
Unintentional injuries (800-949)	1,337	1,272	16	28	9	10	2	81
Motor vehicle-related (810-825)	545	515	5	14	5	6	-	42
Suicides (950-959)	569	543	6	11	1	7	1	13
Homicides (960-978)	142	126	13	2	-	1	-	26
Injuries undetermined whether accidentally or purposely inflicted (980-989)	54	52	1	-	-	-	1	3

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

2. Decedents of Hispanic ethnicity may belong to any race. Nearly all (424) were white.

TABLE 6-11.
Years of Potential Life Lost Before Age 65 by Year and Cause,
Oregon Residents, 1984-1998

Year	Total	Unintentional Injury	Cancer	Heart Disease ¹	Suicide	Congenital Anomalies	Perinatal Conditions	Acquired Immune Deficiency Syndrome	Sudden Infant Death Syndrome
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
1998	122,992	27,500	22,356	12,404	11,771	6,310	5,128	1,668	2,903

Year	Homicide ²	Alcoholism	Cerebrovascular Disease	Diabetes	Chronic Obstructive Pulmonary Disease	Undetermined External Cause	Pneumonia and Influenza	Other Diseases of the Arteries	Hernia and Intestinal Obstruction
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
1998	4,409	4,011	2,520	2,447	1,392	1,342	1,177	480	113

¹ Excludes alcoholic cardiomyopathy.

² Includes legal intervention.

³ Includes the alcohol-linked disorders represented by ICD-9 codes 291.0-291.9, 303, 305.0, 357.5, 425.5, 535.3 and 571.0-571.3.

TABLE 6-12. Years of Potential Life Lost by Cause, Oregon Residents, 1998

Selected Causes of Death	Before Age 65			Before Age 75			Before Age 85		
	Total	M	F	Total	M	F	Total	M	F
Total	122,992	79,314	43,679	213,745	134,830	78,915	382,371	231,660	150,711
Tuberculosis (010-018, 137)	69	47	22	109	67	42	177	94	83
Septicemia (038)	615	410	205	1,148	803	345	2,109	1,405	704
AIDS (042-044)	1,668	1,561	107	2,372	2,225	147	3,082	2,895	187
Viral hepatitis (070)	951	697	254	1,561	1,163	398	2,269	1,663	606
Other infective & parasitic diseases (residual 001-139)	615	201	414	1,021	341	680	1,637	585	1,052
Malignant neoplasms (140-208)	22,356	11,129	11,227	51,404	26,251	25,153	102,817	53,180	49,637
Buccal cavity & pharynx (140-149)	456	286	170	1,080	663	417	2,076	1,202	874
Digestive organs & peritoneum (150-159)	3,932	2,350	1,582	9,777	5,780	3,997	20,418	11,816	8,602
Large intestine (153)	1,074	606	468	3,025	1,772	1,253	6,786	3,906	2,880
Pancreas (157)	759	468	291	2,141	1,178	963	4,826	2,466	2,360
Respiratory/intrathoracic organs (160-165)	4,692	2,676	2,016	13,928	8,072	5,856	30,796	17,729	13,067
Bronchus and lung (162.2-162.9)	4,424	2,519	1,905	13,399	7,732	5,667	29,848	17,092	12,756
Malignant melanoma (172)	804	587	217	1,477	1,059	418	2,399	1,700	699
Other skin (173)	59	48	11	141	111	30	298	219	79
Breast (174-175)	2,799	10	2,789	5,616	20	5,596	9,593	33	9,560
Genital organs (179-187)	1,967	359	1,608	4,472	1,182	3,290	9,538	3,631	5,907
Cervix & uterus (179-182)	562	-	562	1,146	-	1,146	2,099	-	2,099
Ovary (183.0)	997	-	997	2,007	-	2,007	3,561	-	3,561
Prostate (185)	242	242	-	1,020	1,020	-	3,403	3,403	-
Urinary organs (188-189)	592	445	147	1,632	1,206	426	3,725	2,664	1,061
Leukemia (204-208)	1,212	724	488	2,204	1,392	812	3,954	2,530	1,424
Benign neoplasms (210-229)	132	15	117	188	32	156	296	73	223
In situ, uncert. behav. & unspec. nature neopl. (230-239)	112	67	45	258	155	103	573	348	225
Diabetes mellitus (250)	2,447	1,377	1,070	5,362	2,900	2,462	11,097	5,714	5,383
Nutritional deficiencies (260-269)	1	0	1	30	13	17	130	49	81
Anemias (280-285)	158	113	45	269	175	94	453	273	180
Alzheimer's dementia (290.1)	5	3	2	132	64	68	1,014	420	594
Alcoholic psychoses & alcoholism (291, 303)	1,163	751	412	1,994	1,260	734	2,994	1,866	1,128
Drug dependence (304)	472	390	82	662	550	112	854	712	142
Meningitis (320-322)	306	245	61	355	284	71	416	335	81
Alzheimer's disease (331.0)	24	9	15	161	76	85	1,178	516	662
Parkinson's disease (332.0)	29	16	13	193	135	58	1,261	855	406
Epilepsy (345)	435	210	225	568	267	301	722	327	395
Major cardiovascular diseases (390-448)	15,650	10,733	4,917	37,262	25,268	11,994	86,685	54,987	31,698
Diseases of the heart (390-398, 402, 404-429) ¹	12,404	8,979	3,424	29,200	20,755	8,445	65,107	43,498	21,609
Rheumatic fever & chronic rheum. heart disease(390-398)	174	117	57	386	229	157	836	406	430
Hypertensive heart disease w/w renal disease (402,404)	402	261	141	860	522	338	1,860	943	917
Ischemic heart disease (410-414)	7,452	5,878	1,574	19,180	14,511	4,669	44,080	31,215	12,865
Myocardial infarction (410)	2,775	2,009	766	7,572	5,422	2,150	17,764	12,016	5,748
Other acute & subacute (411)	0	-	0	0	-	0	0	-	0
Chronic ischemic heart disease (412-414)	4,677	3,869	808	11,608	9,089	2,519	26,316	19,199	7,117
All other forms (415-429)	4,376	2,723	1,652	8,774	5,493	3,281	18,331	10,934	7,397
Hypertension (401, 403)	110	73	37	392	241	151	1,258	666	592
Cerebrovascular disease (430-438)	2,520	1,258	1,263	6,013	3,128	2,885	15,825	7,875	7,950
Subarachnoid hemorrhage (430)	704	295	409	1,229	511	718	1,885	771	1,114
Intracerebral & intracranial hemorrhages (431-432)	957	439	518	1,917	962	955	3,981	1,988	1,993
Cerebral thrombosis & embolism (434)	68	24	44	320	161	159	1,274	663	611
Acute but ill-defined cerebrovascular disease (436)	453	275	178	1,740	1,001	739	6,447	3,235	3,212
Generalized ischemic cerebrovascular disease (437)	220	156	64	451	286	165	1,233	678	555
Arteriosclerosis (440)	136	104	32	417	319	98	1,229	826	403
Other dis. of arteries, arterioles & capillaries (441-448)	480	319	161	1,240	825	415	3,266	2,122	1,144
Venous thrombosis & embolism (451-453)	77	68	9	149	121	28	250	186	64
Pneumonia (480-486)	1,156	670	486	2,341	1,300	1,041	5,673	3,037	2,636
Influenza (487)	21	0	21	31	0	31	51	10	41
Bronchitis, emphysema, asthma and COPD (490-496)	1,392	812	580	5,417	2,916	2,501	15,838	8,266	7,572
Gastric, duodenal, or peptic ulcer (531-533)	95	58	37	212	102	110	458	204	254
Hernia & intestinal obstruction (550-553, 560)	113	91	22	216	149	67	491	287	204
Cirrhosis of the liver (571)	2,758	1,730	1,028	4,992	3,195	1,797	7,887	5,018	2,869
Alcoholic cirrhosis (571.0-571.3)	2,447	1,581	866	4,334	2,890	1,444	6,610	4,458	2,152
Diseases of the gallbladder (574-576)	101	75	26	224	141	83	486	261	225
Nephritis & nephrosis (580-589)	172	148	24	395	288	107	1,074	715	359
Infections of the kidney (590)	2	0	2	12	0	12	35	10	25
Diseases of male genital organs (600-608)	1	1	-	11	11	-	35	35	-
Diseases of female genital organs (614-629)	63	-	63	96	-	96	146	-	146
Complications of pregnancy, childbirth, etc. (630-676)	149	-	149	199	-	199	249	-	249
Congenital anomalies (740-759)	6,310	3,413	2,898	6,890	3,683	3,207	8,174	4,386	3,788
Certain causes in early infancy (760-779)	5,128	2,789	2,339	5,144	2,787	2,357	5,934	3,217	2,717
Sudden infant death syndrome (798.0)	2,903	1,742	1,161	3,190	1,902	1,288	3,640	2,172	1,468
Unintentional injuries (800-949)	27,500	19,989	7,511	36,930	26,950	9,980	47,793	34,724	13,069
Motor vehicle-related (810-825)	14,461	9,767	4,694	19,045	12,906	6,139	24,182	16,378	7,804
Suicides (950-959)	11,771	9,370	2,401	16,486	13,066	3,420	21,740	17,242	4,498
Homicides (960-978)	4,409	3,106	1,303	5,775	4,055	1,720	7,168	5,010	2,158
Injuries of undetermined manner (980-989)	1,342	864	478	1,854	1,164	690	2,375	1,465	910

1 Includes alcoholic cardiomyopathy, 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, 1984-1998

Year	All Causes	Heart Disease	Cancer	Cerebrovascular Disease	Chronic Obstructive Pulmonary Disease	Unintentional Injury	Pneumonia and Influenza	Arteriosclerosis
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
1998	78	80	73	83	77	44	85	85

Year	Alzheimer's Disease and Dementia	Suicide	Diabetes	Alcoholism ¹	Homicide ²	External Causes of Undetermined Manner	Acquired Immune Deficiency Syndrome	Parkinson's Disease
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
1998	86	44	76	56	32	42	40	83

¹ Includes the alcohol-linked disorders represented by ICD-9 codes 291.0-291.9, 303, 305.0, 357.5, 425.5, 535.3 and 571.0-571.3.

² Includes legal intervention.

TABLE 6-14.
Deaths Due to External Causes and Fatalities
Resulting from Injuries at Work, Oregon Residents, 1998

Method of Death	Total	Unintended Injuries	Suicide	Homicide	Legal Intervention	Undetermined
Total	2,103	1,337	569	134	8	54
Firearms	441	5	334	86	8	8
Hanging and Suffocation	143	37	100	5	-	1
Drowning and Boating	85	74	6	1	-	4
Ingestion of Substance	337	214	92	1	-	30
Cutting and Piercing	30	2	8	20	-	-
Falls and Jumping	290	278	9	-	-	3
Motor Vehicles	549	545	4	-	-	-
Other	228	182	16	21	-	8
Row Percent	100.0	63.6	27.1	6.4	0.4	2.6
Firearms	100.0	1.1	75.7	19.5	1.8	1.8
Hanging and Suffocation	100.0	25.9	69.9	3.5	-	0.7
Drowning and Boating	100.0	87.1	7.1	1.2	-	4.7
Ingestion of Substance	100.0	63.5	27.3	0.3	-	8.9
Cutting and Piercing	100.0	6.7	26.7	66.7	-	-
Falls and Jumping	100.0	95.9	3.1	-	-	1.0
Motor Vehicles	100.0	99.3	0.7	-	-	-
Other	100.0	79.8	7.0	9.2	-	3.5
Column Percent	100.0	100.0	100.0	100.0	100.0	100.0
Firearms	21.0	0.4	58.7	64.2	100.0	14.8
Hanging and Suffocation	6.8	2.8	17.6	3.7	-	1.9
Drowning and Boating	4.0	5.5	1.1	0.7	-	7.4
Ingestion of Substance	16.0	16.0	16.2	0.7	-	55.6
Cutting and Piercing	1.4	0.1	1.4	14.9	-	-
Falls and Jumping	13.8	20.8	1.6	-	-	5.6
Motor Vehicles	26.1	40.8	0.7	-	-	-
Other	10.8	13.6	2.8	15.7	-	14.8
Fatally Injured at Work						
Yes	72	66	5	1	-	-
No	1,846	1108	548	130	8	52
Not Stated	185	163	16	3	-	2
Row Percent	100.0	63.6	27.1	6.4	0.4	2.6
Yes	100.0	91.7	6.9	1.4	-	-
No	100.0	60.0	29.7	7.0	0.4	2.8
Not Stated	100.0	88.1	8.6	1.6	-	1.1
Column Percent	100.0	100.0	100.0	100.0	100.0	100.0
Yes	3.4	4.9	0.9	0.7	-	-
No	87.8	82.9	96.3	97.0	100.0	96.3
Not Stated	8.8	12.2	2.8	2.2	-	3.7

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, 1998

Class and Type of Unintentional Injury	Total Deaths	Rate ¹	Age Groups						
			<1	1-4	5-14	15-24	25-44	45-64	65+
Total	1,359	41.6	8	18	39	210	413	227	444
Work Accidents	34	1.0	-	-	-	3	18	10	3
Logging	9	0.3	-	-	-	1	4	3	1
Agriculture	8	0.2	-	-	-	2	3	2	1
Mining	1	-	-	-	-	-	1	-	-
Construction	4	0.1	-	-	-	-	2	1	1
Manufacturing	7	0.2	-	-	-	-	6	1	-
Transportation	2	0.1	-	-	-	-	1	1	-
Trade	2	0.1	-	-	-	-	-	2	-
Service	1	-	-	-	-	-	1	-	-
Government	-	-	-	-	-	-	-	-	-
Home Accidents	331	10.1	6	6	10	10	103	52	144
Poisoning, Solids, and Liquids	119	3.6	-	-	-	9	78	32	-
Poisoning, Gas	6	0.2	-	-	-	-	5	-	1
Falls	129	3.9	-	-	1	-	5	8	115
Fires	25	0.8	1	2	4	-	4	4	10
Drowning	10	0.3	-	1	1	-	2	2	4
Suffocation, Ingestion	10	0.3	-	-	-	-	2	2	6
Suffocation, Mechanical	13	0.4	5	1	1	-	4	1	1
Firearms	4	0.1	-	-	2	1	-	-	1
Other and Unspecified	15	0.5	-	2	1	-	3	3	6
Motor Vehicle	563	17.2	1	9	20	158	167	93	115
Injury to Pedestrian	73	2.2	-	3	3	11	28	13	15
Injury to Pedal Cyclist	6	0.2	-	-	1	-	4	-	1
Collision With Animal Rider	-	-	-	-	-	-	-	-	-
Collision With Fixed Object	67	2.1	-	-	5	23	17	7	15
Collision With Train	4	0.1	-	-	-	4	-	-	-
Collision With Other Motor Vehicle	237	7.3	1	5	7	65	61	40	58
Non-collision (Loss of Control)	155	4.7	-	1	4	50	51	30	19
Other and Unspecified	21	0.6	-	-	-	5	6	3	7
Public Accident	265	8.1	-	2	8	31	101	44	79
Railway Transportation	12	0.4	-	-	-	-	7	4	1
Other Transportation	6	0.2	-	-	1	-	3	-	2
Water Transportation	19	0.6	-	1	-	3	6	7	2
Air Transportation	10	0.3	-	-	-	-	7	-	3
Falls	65	2.0	-	-	-	5	7	4	49
Fires	-	-	-	-	-	-	-	-	-
Drowning	53	1.6	-	-	3	19	19	9	3
Firearms	1	-	-	-	-	-	-	1	-
Other and Unspecified	99	3.0	-	1	4	4	52	19	19
Unclassified	166	5.1	1	1	1	8	24	28	103

- Quantity is zero.

¹ 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, 1998

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		75+	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Total	1,337	3	4	12	5	19	145	53	129	40	186	53	112	35	54	20	63	36	168	180	
Transportation	597	1	-	6	4	10	111	43	56	23	73	34	48	20	25	8	39	17	36	32	
Motor Vehicle	545	1	-	5	4	9	107	43	48	22	62	33	40	18	21	7	37	17	31	31	
Auto or Truck	413	1	-	4	2	7	92	38	35	16	39	21	25	16	16	5	27	14	20	28	
Motor Cyclist	23	-	-	-	-	-	2	-	4	1	6	3	5	1	-	-	-	1	-	-	
Pedal Cyclist	7	-	-	-	-	1	-	-	1	1	2	-	-	-	-	-	1	1	-	-	
Pedestrian	66	-	-	1	2	1	8	5	6	2	14	6	5	-	3	-	5	1	5	-	
Other	27	-	-	-	-	-	5	-	2	-	3	3	4	-	1	1	2	-	5	2	
Watercraft	17	-	-	1	1	1	3	-	2	-	3	-	3	2	2	-	1	-	1	-	
Aircraft	15	-	-	-	-	1	1	-	1	-	4	-	3	2	1	-	1	-	1	-	
Railway	14	-	-	-	-	-	-	-	3	1	3	1	2	-	1	1	-	-	1	1	
Other Road Vehicle	6	-	-	-	-	1	-	-	2	-	1	-	-	-	-	-	-	-	2	-	
Poisoning	214	-	-	-	-	-	11	4	49	11	71	11	33	8	9	2	-	2	1	2	
Gas	10	-	-	-	-	-	-	-	3	-	5	1	-	-	-	-	-	-	1	-	
Drugs and Medicines	201	-	-	-	-	-	10	4	45	11	65	10	33	8	9	2	-	2	-	2	
Other Solids and Liquids	3	-	-	-	-	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	
Suffocation or Obstruction	37	1	4	1	1	1	1	-	2	-	4	-	4	-	1	1	2	2	6	6	
Inhalation of Food	13	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-	-	2	4	3	
Inhalation of Other Material	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	2	
Mechanical Suffocation	19	1	4	1	1	1	1	-	1	-	3	-	3	-	-	1	-	-	1	1	
Miscellaneous	487	1	-	5	-	8	22	6	22	6	38	8	27	7	19	9	22	15	124	139	
Falls	278	-	-	-	-	-	4	2	5	-	9	3	6	1	6	3	6	13	102	118	
Fires	26	1	-	2	1	3	-	-	1	1	2	2	1	1	1	1	2	-	3	6	
Drowning	61	-	-	1	3	2	14	3	7	4	8	1	6	1	3	2	2	-	4	-	
Struck by Object	17	-	-	1	1	1	-	-	2	-	2	-	2	-	1	-	2	1	3	1	
Machinery	25	-	-	-	-	-	3	-	5	-	7	-	4	-	1	1	4	-	-	-	
Firearms	5	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	-	-	-	
Electric Current	5	-	-	1	-	1	-	-	-	-	1	-	1	-	1	-	-	-	-	-	
Other and Unspecified	35	-	-	-	-	-	-	1	-	-	7	2	3	4	6	1	1	-	3	4	
Complications of Medical Procedures	15	-	-	-	-	-	-	-	1	1	1	-	-	-	1	1	2	-	4	6	
Late Effects of Accidents	20	-	-	-	-	1	-	-	1	-	1	2	2	-	1	-	2	1	5	4	

- 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, 1998

Method of Death	Total Deaths	Age and Sex Groups															
		< 15		15-24		25-34		35-44		45-54		55-64		65-74		75+	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Suicide	569	6	2	57	7	73	23	100	24	70	33	47	9	35	6	65	12
All Poisoning	92	-	-	5	1	9	8	19	8	13	10	5	2	2	1	4	5
Medications	56	-	-	2	-	4	7	11	7	6	9	1	-	2	1	3	3
Auto Exhaust	24	-	-	2	1	3	-	6	1	6	1	2	2	-	-	-	-
Other Gas	6	-	-	-	-	1	1	-	-	-	-	2	-	-	-	-	-
Other	6	-	-	1	-	1	-	2	-	-	-	-	-	-	-	1	1
Hanging	87	3	2	15	1	16	4	18	5	6	4	6	2	2	-	2	1
Suffocation by Plastic Bag	8	-	-	-	-	-	-	2	1	1	1	-	-	-	1	2	1
Other Suffocation	5	-	-	-	-	-	-	1	1	1	-	-	-	-	1	-	-
Drowning	6	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-	-
All Firearms	335	3	-	-	-	-	-	-	2	-	1	1	-	-	-	2	-
Handguns	216	2	-	35	5	42	11	54	7	39	13	33	4	29	2	54	4
Shotguns	53	2	-	20	4	20	10	37	5	27	13	21	4	17	2	31	3
Rifles	61	1	-	7	-	10	1	6	-	2	-	11	-	6	-	8	1
Other and Unspecified	5	-	-	8	1	12	-	11	2	8	-	-	-	5	-	14	-
Cutting and Piercing	8	-	-	-	-	-	-	2	-	2	-	1	-	1	-	1	-
Jumping From High Places	9	-	-	-	-	1	-	2	-	3	1	1	-	1	1	1	-
Other	19	3	-	2	-	5	-	3	-	5	2	1	-	-	-	-	1
Homicide	134	5	3	24	7	25	12	20	13	5	2	7	2	1	4	2	2
Strangulation	5	-	1	-	2	-	-	-	-	-	-	-	-	-	1	-	1
Drowning	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
All Firearms	86	2	-	19	3	19	9	13	7	4	1	4	2	1	1	1	-
Handguns	42	2	-	7	2	7	4	9	3	3	1	2	1	-	1	-	-
Shotguns	7	-	-	1	-	3	1	-	1	-	-	-	-	-	-	1	-
Rifles	8	-	-	3	-	1	-	2	1	-	-	1	-	-	-	-	-
Other and Unspecified	29	1	-	8	1	8	4	2	2	1	-	1	1	1	-	-	-
Cutting and Piercing	20	1	-	3	1	5	1	3	3	-	-	1	-	-	1	1	-
Child Battering and Neglect	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	20	11	9	2	1	1	2	4	2	1	1	2	-	-	1	-	1
Legal Intervention	8	8	8	1	1	2	2	2	2	1	1	2	2	2	2	2	2
Firearms	8	8	8	1	1	2	2	2	2	1	1	2	2	2	2	2	2
Undetermined Manner¹	54	31	23	3	1	5	3	10	3	8	9	1	4	1	1	1	1
All Poisoning	30	14	16	-	-	2	3	7	2	4	5	1	4	-	-	-	1
Medications	29	14	15	-	-	1	2	7	2	4	5	1	4	-	-	-	-
Auto Exhaust	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Drowning	4	4	-	1	-	1	-	1	-	1	-	-	-	-	-	-	-
Firearms	8	7	1	2	-	1	-	1	-	2	1	-	-	-	-	1	-
Other	12	6	6	-	-	1	-	2	1	1	3	-	-	-	1	-	-

¹ Undetermined whether unintentionally or purposefully inflicted.
 - Quantity is zero.

TABLE 6-18.
Tobacco-related Deaths by Sex, Age, and Education, Oregon Residents, 1998

Sex, Age, and Education	Total Deaths	Linked to Tobacco Use ¹		Not Linked to Tobacco Use		Unknown	
		Number	Percent	Number	Percent	Number	Percent
Sex and Age							
Both Sexes	29,346	6,571	22.4	15,994	54.5	6,781	23.1
< 1 ²	246	-	-	219	89.0	27	11.0
1-25	518	4	0.8	475	91.7	39	7.5
25-34	480	15	3.1	404	84.2	61	12.7
35-44	1,052	114	10.8	726	69.0	212	20.2
45-54	1,688	381	22.6	943	55.9	364	21.6
55-64	2,663	934	35.1	1,144	43.0	585	22.0
65-74	5,367	1,965	36.6	2,185	40.7	1,217	22.7
75-84	9,061	2,344	25.9	4,482	49.5	2,235	24.7
85-94	6,937	772	11.1	4,420	63.7	1,745	25.2
95+	1,334	42	3.1	996	74.7	296	22.2
Males	14,627	3,939	26.9	7,016	48.0	3,672	25.1
< 1 ²	136	-	-	124	91.2	12	8.8
1-25	363	2	0.6	334	92.0	27	7.4
25-34	337	10	3.0	285	84.6	42	12.5
35-44	703	80	11.4	470	66.9	153	21.8
45-54	1,040	267	25.7	525	50.5	248	23.8
55-64	1,574	589	37.4	610	38.8	375	23.8
65-74	3,047	1,205	39.5	1,097	36.0	745	24.5
75-84	4,541	1,350	29.7	1,948	42.9	1,243	27.4
85-94	2,611	419	16.0	1,447	55.4	745	28.5
95+	275	17	6.2	176	64.0	82	29.8
Females	14,719	2,632	17.9	8,978	61.0	3,109	21.1
< 1 ²	110	-	-	95	86.4	15	13.6
1-25	155	2	1.3	141	91.0	12	7.7
25-34	143	5	3.5	119	83.2	19	13.3
35-44	349	34	9.7	256	73.4	59	16.9
45-54	648	114	17.6	418	64.5	116	17.9
55-64	1,089	345	31.7	534	49.0	210	19.3
65-74	2,320	760	32.8	1,088	46.9	472	20.3
75-84	4,520	994	22.0	2,534	56.1	992	21.9
85-94	4,326	353	8.2	2,973	68.7	1,000	23.1
95+	1,059	25	2.4	820	77.4	214	20.2
Years of Education							
< 9	4,793	979	20.4	2,667	55.6	1,147	23.9
9-11	3,323	910	27.4	1,654	49.8	759	22.8
12	11,900	2,882	24.2	6,256	52.6	2,762	23.2
13-15	4,936	1,049	21.3	2,760	55.9	1,127	22.8
16	2,289	397	17.3	1,379	60.2	513	22.4
17+	1,534	226	14.7	1,002	65.3	306	19.9
Not Stated	571	128	22.4	276	48.3	167	29.2

1 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.'

2 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 11.7 percent (29) of infant deaths were attributable to maternal smoking during pregnancy.

TABLE 6-19. Tobacco-related Deaths by Cause of Death, Oregon Residents, 1998

Selected Causes of Death	Total Deaths	Linked to Tobacco Use ¹		Not Linked to Tobacco Use		Unknown	
		No.	%	No.	%	No.	%
Total	29,346	6,571	22.4	15,994	54.5	6,781	23.1
Tuberculosis (010-018, 137)	12	2	16.7	8	66.7	2	16.7
Septicemia (038)	163	23	14.1	96	58.9	44	27.0
AIDS (042-044)	71	4	5.6	55	77.5	12	16.9
Other Infective & parasitic diseases (Residual 001-139)	168	18	10.7	127	75.6	23	13.7
Malignant Neoplasms (140-208)	7,007	2,209	31.5	3,546	50.6	1,252	17.9
Buccal cavity & pharynx (140-149)	120	68	56.7	33	27.5	19	15.8
Digestive organs & peritoneum (150-159)	1,502	148	9.9	1,033	68.8	321	21.4
Large intestine (153)	570	38	6.7	427	74.9	105	18.4
Pancreas (157)	361	31	8.6	252	69.8	78	21.6
Respiratory and intrathoracic organs (160-165)	2,121	1,716	80.9	174	8.2	231	10.9
Bronchus and lung (162.2-162.9)	2,065	1,687	81.7	157	7.6	221	10.7
Malignant melanoma (172)	106	5	4.7	80	75.5	21	19.8
Other skin (173)	21	6	28.6	11	52.4	4	19.0
Breast (174-175)	531	25	4.7	428	80.6	78	14.7
Genital organs (179-187)	813	38	4.7	609	74.9	166	20.4
Cervix & uterus (179-182)	133	6	4.5	104	78.2	23	17.3
Ovary (183.0)	197	6	3.0	161	81.7	30	15.2
Prostate (185)	461	25	5.4	326	70.7	110	23.9
Urinary organs (188-189)	330	77	23.3	173	52.4	80	24.2
Leukemia (204-208)	252	10	4.0	195	77.4	47	18.7
Benign neoplasms (210-229)	16	-	-	13	81.3	3	18.8
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	59	6	10.2	42	71.2	11	18.6
Diabetes mellitus (250)	870	143	16.4	502	57.7	225	25.9
Alzheimer's dementia (290.1)	395	17	4.3	285	72.2	93	23.5
Alcoholic psychoses & alcoholism (291, 303)	105	21	20.0	52	49.5	32	30.5
Drug dependence (304)	20	3	15.0	15	75.0	2	10.0
Alzheimer's disease (331.0)	411	8	1.9	298	72.5	105	25.5
Parkinson's disease (332.0)	275	2	0.7	208	75.6	65	23.6
Epilepsy (345)	16	-	-	16	100.0	-	-
Major cardiovascular diseases (390-448)	10,751	2,181	20.3	5,464	50.8	3,106	28.9
Diseases of the heart (390-398, 402, 404-429)	7,292	1,697	23.3	3,503	48.0	2,092	28.7
Rheumatic fever & chronic rheumatic heart disease (390-398)	84	10	11.9	64	76.2	10	11.9
Hypertensive heart disease with or without renal disease (402,404)	246	42	17.1	147	59.8	57	23.2
Ischemic heart disease (410-414)	4,685	1,286	27.4	2,055	43.9	1,344	28.7
Myocardial infarction (410)	1,819	507	27.9	810	44.5	502	27.6
Chronic ischemic heart disease (412-414)	2,865	779	27.2	1,244	43.4	842	29.4
All other forms (415-429)	2,277	359	15.8	1,237	54.3	681	29.9
Hypertension (401, 403)	201	39	19.4	104	51.7	58	28.9
Cerebrovascular disease (430-438)	2,636	293	11.1	1,556	59.0	787	29.9
Subarachnoid hemorrhage (430)	80	3	3.7	48	60.0	29	36.2
Intracerebral & intracranial hemorrhages (431-432)	337	35	10.4	195	57.9	107	31.8
Cerebral thrombosis & embolism (434)	330	11	3.3	230	69.7	89	27.0
Acute but ill-defined cerebrovascular disease (436)	1,470	199	13.5	834	56.7	437	29.7
Generalized ischemic cerebrovascular disease (437)	232	28	12.1	136	58.6	68	29.3
Arteriosclerosis (440)	228	48	21.1	121	53.1	59	25.9
Other diseases of arteries, arterioles and capillaries (441-448)	394	104	26.4	180	45.7	110	27.9
Pneumonia (480-486)	1,004	147	14.6	594	59.2	263	26.2
Influenza (487)	6	-	-	4	66.7	2	33.3
Bronchitis, emphysema, asthma and COPD (490-496)	1,638	1,306	79.7	145	8.9	187	11.4
Chronic and unspecified bronchitis (490-491)	40	21	52.5	11	27.5	8	20.0
Emphysema (492)	325	295	90.8	7	2.2	23	7.1
Asthma (493)	96	33	34.4	43	44.8	20	20.8
Chronic obstructive pulmonary disease (496)	1,149	948	82.5	70	6.1	131	11.4
Gastric, duodenal, or peptic ulcer (531-533)	44	5	11.4	29	65.9	10	22.7
Hernia & intestinal obstruction (550-553, 560)	79	7	8.9	53	67.1	19	24.1
Cirrhosis of the liver (571)	324	42	13.0	201	62.0	81	25.0
Alcoholic cirrhosis (571.0-571.3)	245	39	15.9	147	60.0	59	24.1
Diseases of the gallbladder (574-576)	57	5	8.8	46	80.7	6	10.5
Diseases of the pancreas (577)	32	3	9.4	15	46.9	14	43.8
Nephritis & nephrosis (580-589)	178	22	12.4	111	62.4	45	25.3
Complications of pregnancy, childbirth & the puerperium (630-676)	5	-	-	4	80.0	1	20.0
Congenital anomalies (740-759)	154	1	0.6	134	87.0	19	12.3
Perinatal conditions (760-779)	79	-	-	65	82.3	14	17.7
Unintentional injuries (800-949)	1,337	47	3.5	1,103	82.5	187	14.0
Motor vehicle-related (810-825)	545	8	1.5	471	86.4	66	12.1
Suicides (950-959)	569	12	2.1	522	91.7	35	6.2
Homicides (960-978)	142	2	1.4	136	95.8	4	2.8
Injuries undetermined whether accidentally or purposely inflicted (980-989)	54	-	-	38	70.4	16	29.6

¹ 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, 1998

County of Residence	Total Deaths	Linked to Tobacco Use ¹		Not Linked to Tobacco Use		Unknown	
		Number	Percent	Number	Percent	Number	Percent
Total	29,346	6,571	22.4	15,994	54.5	6,781	23.1
Baker	210	44	21.0	119	56.7	47	22.4
Benton	464	97	20.9	301	64.9	66	14.2
Clackamas	2,532	500	19.7	1,513	59.8	519	20.5
Clatsop	367	85	23.2	195	53.1	87	23.7
Columbia	337	95	28.2	193	57.3	49	14.5
Coos	817	237	29.0	385	47.1	195	23.9
Crook	166	52	31.3	77	46.4	37	22.3
Curry	324	65	20.1	122	37.7	137	42.3
Deschutes	873	184	21.1	446	51.1	243	27.8
Douglas	1,154	305	26.4	487	42.2	362	31.4
Gilliam	15	2	13.3	11	73.3	2	13.3
Grant	88	16	18.2	56	63.6	16	18.2
Harney	88	30	34.1	40	45.5	18	20.5
Hood River	156	31	19.9	98	62.8	27	17.3
Jackson	1,753	364	20.8	806	46.0	583	33.3
Jefferson	152	37	24.3	80	52.6	35	23.0
Josephine	993	262	26.4	499	50.3	232	23.4
Klamath	661	164	24.8	311	47.0	186	28.1
Lake	70	18	25.7	33	47.1	19	27.1
Lane	2,908	630	21.7	1,514	52.1	764	26.3
Lincoln	545	152	27.9	267	49.0	126	23.1
Linn	990	231	23.3	546	55.2	213	21.5
Malheur	295	45	15.3	126	42.7	124	42.0
Marion	2,406	511	21.2	1,472	61.2	423	17.6
Morrow	79	22	27.8	46	58.2	11	13.9
Multnomah	5,702	1,256	22.0	3,174	55.7	1,272	22.3
Polk	493	110	22.3	297	60.2	86	17.4
Sherman	22	6	27.3	13	59.1	3	13.6
Tillamook	291	82	28.2	154	52.9	55	18.9
Umatilla	534	137	25.7	257	48.1	140	26.2
Union	234	55	23.5	123	52.6	56	23.9
Wallowa	90	13	14.4	61	67.8	16	17.8
Wasco	263	67	25.5	144	54.8	52	19.8
Washington	2,581	501	19.4	1,626	63.0	454	17.6
Wheeler	13	3	23.1	6	46.2	4	30.8
Yamhill	680	162	23.8	396	58.2	122	17.9

¹ 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, 1998

Sex, Age, Race/Ethnicity, and Education	Total		Alcoholic Dependence Syndrome		Chronic Alcoholic Liver Disease		Other Alcoholic Disorders ¹		Drug Psychosis, Abuse, and Dependence ²		Unintended Injuries		Suicides		Undetermined Manner	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total	715	100.0	94	100.0	245	100.0	41	100.0	48	100.0	202	100.0	56	100.0	29	100.0
Sex																
Male	496	69	57	61	167	68	30	73	36	75	163	81	29	52	14	48
Female	219	31	37	39	78	32	11	27	12	25	39	19	27	48	15	52
Age																
0-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5-14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-24	20	3	-	-	-	-	2	5	1	2	14	7	2	4	1	3
25-34	95	13	3	3	3	1	-	-	16	33	57	28	11	20	5	17
35-44	176	25	19	20	36	15	7	17	12	25	75	37	18	32	9	31
45-54	183	26	28	30	69	28	8	20	13	27	41	20	15	27	9	31
55-64	104	15	17	18	56	23	10	24	4	8	11	5	1	2	5	17
65-74	78	11	21	22	45	18	6	15	1	2	2	1	3	5	-	-
75-84	49	7	6	6	28	11	7	17	1	2	2	1	5	9	-	-
85+	10	1	-	-	8	3	1	2	-	-	-	-	1	2	-	-
Race/Ethnicity																
White	665	93	84	89	231	94	39	95	45	94	184	91	54	96	28	97
African American	15	2	2	2	3	1	-	-	2	4	6	3	1	2	1	3
Indian	27	4	7	7	10	4	2	5	1	2	6	3	1	2	-	-
Chinese & Japanese	2	0	-	-	-	-	-	-	-	-	2	1	-	-	-	-
Other Asian & Pacific Islander	2	0	-	-	-	-	-	-	-	-	2	1	-	-	-	-
Other & Not Stated	4	1	1	1	1	0	-	-	-	-	2	1	-	-	-	-
Hispanic ³	18	3	1	1	3	1	-	-	1	2	12	6	-	-	1	3
Years of Education																
<9	30	4	8	9	11	4	1	2	1	2	5	2	3	5	1	3
9-11	118	17	11	12	42	17	6	15	14	29	33	16	4	7	8	28
12	353	49	39	41	124	51	22	54	19	40	110	54	25	45	14	48
13-15	123	17	16	17	42	17	6	15	9	19	32	16	15	27	3	10
16	35	5	10	11	10	4	3	7	2	4	6	3	3	5	1	3
17+	28	4	4	4	11	4	1	2	1	2	5	2	5	9	1	3
Not Stated	28	4	6	6	5	2	2	5	2	4	11	5	1	2	1	3

¹ Includes the alcohol-linked disorders represented by ICD-9 codes 291.0-291.9, 305.0, 357.5, 425.5, and 535.3.

² Excludes tobacco dependence.

³ 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" if not so indicated.

- Quantity is zero.

TABLE 6-22. Deaths Due to Alcohol or Drugs by County of Residence, Oregon, 1998

County of Residence	Total		Alcoholic Dependence Syndrome		Chronic Alcoholic Liver Disease		Other Alcoholic Disorders ¹		Drug Psychosis, Abuse, and Dependence ²		Unintended Injuries		Suicides		Undetermined Manner	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total	715	100	94	100	245	100	41	100	48	100	202	100	56	100	29	100
Baker	6	1	1	1	2	1	1	2	-	-	-	-	2	4	-	-
Benton	8	1	1	1	4	2	1	2	2	4	-	-	-	-	-	-
Clackamas	58	8	6	6	18	7	1	2	3	6	22	11	6	11	3	10
Clatsop	9	1	1	1	4	2	1	2	-	-	2	1	1	2	-	-
Columbia	9	1	3	3	3	1	1	2	-	-	2	1	1	2	-	-
Coos	14	2	3	3	3	1	1	2	-	-	6	3	1	2	-	-
Crook	3	0	-	-	2	1	1	2	-	-	-	-	-	-	-	-
Curry	5	1	3	3	1	0	-	-	-	-	1	0	-	-	-	-
Deschutes	16	2	2	2	8	3	1	2	1	2	2	1	2	4	-	-
Douglas	16	2	4	4	6	2	1	2	2	4	2	1	-	-	1	3
Gilliam	-	0	-	-	-	0	-	-	-	-	-	-	-	-	-	-
Grant	1	0	-	-	1	0	-	-	-	-	-	-	-	-	-	-
Hamey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hood River	4	1	-	-	2	1	1	2	-	-	1	0	-	-	-	-
Jackson	40	6	8	9	12	5	5	12	1	2	4	2	9	16	1	3
Jefferson	4	1	-	-	-	-	2	5	2	4	1	0	-	-	1	3
Josephine	20	3	2	2	10	4	2	5	2	4	2	1	1	2	1	3
Josephine	14	2	3	3	3	1	3	7	1	2	3	1	1	2	-	-
Klamath	2	0	1	1	1	0	-	-	-	-	-	-	-	-	-	-
Lake	68	10	4	4	25	10	3	7	-	-	25	12	6	11	5	17
Lane	14	2	-	-	10	4	-	-	-	-	2	1	1	2	1	3
Lincoln	15	2	3	3	5	2	-	-	-	-	4	2	2	4	1	3
Linn	6	1	1	1	3	1	-	-	-	-	2	1	1	4	-	-
Malheur	48	7	6	6	16	7	3	7	3	6	15	7	4	7	1	3
Marion	2	0	-	-	-	-	-	-	-	-	1	0	1	2	-	-
Morrow	222	31	31	33	57	23	6	15	26	54	82	41	11	20	9	31
Multnomah	10	1	2	2	3	1	-	-	-	-	4	2	1	2	-	-
Polk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman	9	1	2	2	3	-	-	-	-	-	2	1	2	4	-	-
Tillamook	13	2	1	1	11	4	-	-	-	-	1	0	-	-	-	-
Umatilla	3	0	-	-	1	0	1	2	1	2	-	-	-	-	-	-
Union	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wallowa	2	0	-	-	1	0	1	2	-	-	-	-	-	-	-	-
Wasco	62	9	6	6	27	11	6	15	6	13	11	5	3	5	3	10
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheeler	12	2	-	-	3	1	-	-	-	-	5	2	2	4	2	7

¹ Includes the alcohol-linked disorders represented by ICD-9 codes 291.0-291.9, 305.0, 357.5, 425.5, and 535.3.

² Excludes tobacco dependence.

NOTE: 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" if not so indicated.

- Quantity is zero.

TABLE 6-23.
Leading Causes of Death by County of Residence, Oregon, 1998

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	Other Diseases of the Arteries
Total	29,346	7,276	7,007	2,636	1,638	1,337	1,010	870	806	569	394
Rate ¹	898.1	222.7	214.4	80.7	50.1	40.9	30.9	26.6	24.7	17.4	12.1
Baker	210	51	59	20	20	6	5	3	1	7	1
Benton	464	119	115	45	20	17	11	18	16	9	11
Clackamas	2,532	659	621	222	116	98	113	87	63	42	35
Clatsop	367	104	82	33	23	19	13	10	9	14	3
Columbia	337	84	88	24	22	21	9	11	11	8	7
Coos	817	225	204	61	62	33	20	28	29	17	11
Crook	166	47	38	12	10	8	14	1	2	4	4
Curry	324	90	85	15	13	17	8	7	9	8	6
Deschutes	873	205	222	79	49	47	28	28	14	20	16
Douglas	1,154	319	304	80	90	49	29	45	28	20	8
Gilliam	15	5	6	2	-	-	-	-	-	-	-
Grant	88	22	25	8	5	3	4	2	-	1	2
Harney	88	27	20	7	4	6	7	1	1	-	-
Hood River	156	33	34	10	10	6	8	3	3	4	2
Jackson	1,753	427	405	163	107	64	68	48	57	44	23
Jefferson	152	36	30	14	12	12	3	2	5	2	5
Josephine	993	263	238	103	65	40	29	18	23	19	11
Klamath	661	133	162	50	48	26	19	28	25	12	11
Lake	70	19	21	2	3	2	1	5	2	-	3
Lane	2,908	646	728	220	176	137	81	99	99	58	46
Lincoln	545	153	149	50	26	16	16	17	11	15	6
Linn	990	249	237	96	51	54	21	22	29	13	17
Malheur	295	75	52	23	18	19	15	9	12	6	1
Marion	2,406	581	534	344	109	115	64	63	50	44	35
Morrow	79	17	28	4	2	7	3	8	2	1	-
Multnomah	5,702	1,395	1,294	456	310	274	229	175	184	95	65
Polk	493	121	122	82	23	20	10	5	5	6	4
Sherman	22	6	4	1	2	2	1	1	1	1	1
Tillamook	291	71	77	26	16	15	14	9	2	3	6
Umatilla	534	147	121	40	28	25	16	15	13	13	8
Union	234	62	49	14	18	12	11	6	4	7	4
Wallowa	90	17	24	12	4	6	5	3	2	2	-
Wasco	263	62	49	28	15	9	13	7	8	3	9
Washington	2,581	664	613	229	130	111	97	63	68	53	26
Wheeler	13	2	4	1	1	1	2	1	-	-	-
Yamhill	680	140	163	60	30	40	23	22	18	18	7

- Quantity is zero.

¹ Rates per 100,000 population.

TABLE 6-23.
Leading Causes of Death by County of Residence, Oregon, 1998 (Continued)

County of Residence	Alcoholism, Alcoholic Cirrhosis, & Alcoholic Psychosis ²	Parkinsonism	Arteriosclerosis	Hypertension with or without Renal Disease	Nephritis and Nephrosis	Septicemia	Congenital Anomalies	Homicide and Legal Intervention	Hernia and Intestinal Obstruction	Perinatal Conditions	Amyotrophic Lateral Sclerosis	All Other Causes
Total	380	275	228	201	178	163	154	142	79	79	76	3,848
Rate ¹	11.6	8.4	7.0	6.2	5.4	5.0	4.7	4.3	2.4	2.4	2.3	117.8
Baker	4	1	3	2	2	1	-	1	-	-	-	23
Benton	6	5	2	1	1	1	1	1	-	2	1	62
Clackamas	24	26	16	17	14	16	14	7	6	10	11	315
Clatsop	6	3	2	2	3	1	1	2	-	-	-	37
Columbia	7	6	2	2	4	3	1	-	1	2	-	24
Coos	7	4	8	5	6	7	5	1	1	1	2	80
Crook	3	2	8	-	-	1	-	-	-	1	-	11
Curry	4	3	7	1	-	2	1	1	1	1	-	45
Deschutes	11	10	6	5	3	5	6	-	2	2	3	112
Douglas	11	7	4	9	8	3	6	3	6	4	2	119
Gilliam	-	-	-	-	-	-	-	-	-	-	-	2
Grant	1	2	-	1	-	-	1	-	1	-	1	9
Harney	-	1	-	-	2	-	-	1	-	1	1	9
Hood River	3	5	2	2	3	1	1	1	-	-	-	25
Jackson	25	17	11	9	8	7	7	8	4	3	5	243
Jefferson	2	1	2	-	-	-	1	1	-	1	-	23
Josephine	14	9	3	9	1	5	8	9	4	2	2	118
Klamath	9	5	3	4	5	5	8	6	2	1	-	99
Lake	2	1	-	-	1	-	-	1	-	-	-	7
Lane	32	25	33	28	19	8	14	16	6	8	8	421
Lincoln	10	1	3	1	3	4	2	3	1	1	2	55
Linn	8	10	5	11	6	3	6	2	4	2	5	139
Malheur	4	1	3	-	1	1	1	-	1	2	-	51
Marion	25	19	15	21	17	15	18	23	10	3	6	295
Morrow	-	-	-	-	-	1	-	-	-	-	-	6
Multnomah	94	63	42	43	37	31	21	27	10	13	12	832
Polk	5	3	3	6	2	4	2	2	2	-	-	66
Sherman	-	-	-	1	-	-	-	-	-	-	-	1
Tillamook	5	-	2	2	1	5	3	-	1	1	-	32
Umatilla	12	3	2	1	3	2	6	4	2	3	1	69
Union	2	3	2	1	3	2	-	1	1	-	1	31
Wallowa	-	-	-	1	-	-	-	-	-	1	-	13
Wasco	2	1	-	3	6	2	1	3	-	1	1	40
Washington	39	32	31	7	12	22	18	16	12	8	10	320
Wheeler	-	-	-	-	-	-	-	-	-	-	-	1
Yamhill	3	6	8	6	7	5	1	2	1	5	2	113

- Quantity is zero.

¹ Rates per 100,000 population.

² Includes the alcohol-linked disorder represented by ICD-9 codes 291.0-291.9, 303, 305.0, 357.5, 425.5, 535.3 and 571.0-571.3.

TABLE 6-24.
Deaths by Age, Sex, and County of Residence, Oregon, 1998

County of Residence	Total	Total		< 1		1-4		5-14		15-24	
		M	F	M	F	M	F	M	F	M	F
Total	29,346	14,627	14,719	136	110	30	18	55	38	278	99
Baker	210	110	100	-	-	-	-	-	1	4	-
Benton	464	214	250	2	2	-	1	1	-	2	1
Clackamas	2,532	1,198	1,334	13	10	4	1	5	1	26	7
Clatsop	367	185	182	-	1	1	-	1	-	3	2
Columbia	337	180	157	1	1	-	-	-	-	3	2
Coos	817	424	393	1	1	1	2	1	-	5	3
Crook	166	81	85	1	-	-	-	1	1	2	-
Curry	324	173	151	-	2	-	-	1	-	1	-
Deschutes	873	443	430	4	5	1	-	3	2	7	2
Douglas	1,154	604	550	7	2	2	-	3	-	10	5
Gilliam	15	10	5	-	-	-	-	-	-	-	-
Grant	88	39	49	-	1	-	-	-	-	-	1
Harney	88	45	43	-	1	-	-	-	-	1	-
Hood River	156	73	83	1	-	-	-	1	1	2	2
Jackson	1,753	898	855	8	5	3	-	5	2	9	7
Jefferson	152	76	76	1	1	-	-	-	2	4	2
Josephine	993	512	481	5	4	2	-	1	1	9	2
Klamath	661	354	307	1	6	1	1	2	-	13	2
Lake	70	41	29	-	-	-	-	-	-	-	-
Lane	2,908	1,450	1,458	11	13	1	1	8	2	27	8
Lincoln	545	285	260	3	2	-	-	1	2	4	1
Linn	990	511	479	4	2	-	-	2	2	4	3
Malheur	295	156	139	6	1	-	-	1	1	4	1
Marion	2,406	1,183	1,223	10	9	3	1	8	2	32	14
Morrow	79	40	39	-	-	-	-	-	-	-	-
Multnomah	5,702	2,778	2,924	22	20	6	4	5	10	43	12
Polk	493	241	252	1	-	2	1	-	-	6	-
Sherman	22	14	8	-	-	-	-	-	-	-	-
Tillamook	291	152	139	2	-	-	1	1	-	1	1
Umatilla	534	284	250	6	2	1	-	-	-	8	2
Union	234	119	115	-	-	-	-	1	1	2	-
Wallowa	90	43	47	1	-	-	-	-	-	2	1
Wasco	263	142	121	2	-	-	1	-	-	2	2
Washington	2,581	1,216	1,365	17	16	-	4	3	4	26	11
Wheeler	13	7	6	-	-	-	-	-	-	-	-
Yamhill	680	346	334	6	3	2	-	-	3	16	5

- Quantity is Zero.

TABLE 6-24.
Deaths by Age, Sex, and County of Residence, Oregon, 1998 (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
Total	337	143	703	349	1040	648	1,574	1,089	3,047	2,320	7,427	9,905
Baker	2	1	4	3	4	3	18	12	22	12	56	68
Benton	6	4	13	4	18	8	20	16	39	42	113	172
Clackamas	32	10	46	37	82	69	145	112	243	186	602	901
Clatsop	7	4	5	5	9	6	25	10	49	37	85	117
Columbia	5	4	7	4	18	11	25	13	46	37	75	85
Coos	9	3	12	5	26	14	56	35	94	64	219	266
Crook	1	1	3	1	3	2	12	8	15	17	43	55
Curry	-	-	9	1	9	5	13	9	45	29	95	105
Deschutes	13	2	16	4	31	18	52	27	90	85	226	285
Douglas	6	2	21	16	39	15	68	56	134	112	314	342
Gilliam	-	-	-	-	-	-	-	-	4	-	6	5
Grant	1	2	1	-	1	1	8	6	11	10	17	28
Harney	-	1	1	1	2	4	5	3	15	11	21	22
Hood River	2	-	2	3	5	3	3	3	16	18	41	53
Jackson	15	6	46	17	58	30	80	60	177	130	497	598
Jefferson	2	3	5	2	3	2	7	7	18	18	36	39
Josephine	8	-	20	8	35	14	59	39	115	80	258	333
Klamath	6	2	12	7	23	22	43	30	81	56	172	181
Lake	1	-	1	-	5	1	4	4	14	9	16	15
Lane	38	17	77	40	97	63	133	101	324	212	734	1,001
Lincoln	4	1	6	4	30	13	26	25	79	52	132	160
Linn	6	3	23	8	32	26	56	34	108	72	276	329
Malheur	2	-	11	2	10	9	11	13	34	20	77	92
Marion	45	10	49	35	72	47	120	74	239	177	605	854
Morrow	-	-	3	1	5	4	3	5	15	11	14	18
Multnomah	81	42	183	72	253	144	306	200	534	439	1,345	1,981
Polk	7	-	10	5	14	9	29	12	48	39	124	186
Sherman	1	-	-	-	-	-	3	3	6	3	4	2
Tillamook	1	-	5	3	4	8	22	13	29	29	87	84
Umatilla	5	3	18	1	26	12	31	22	64	40	125	168
Union	2	1	3	3	7	4	9	11	28	16	67	79
Wallowa	-	-	2	-	1	1	4	4	10	6	23	35
Wasco	3	2	4	2	5	5	16	9	29	17	81	83
Washington	21	18	75	45	79	60	133	93	199	182	663	932
Wheeler	-	-	-	-	-	-	1	-	2	2	4	4
Yamhill	5	1	10	10	34	15	28	20	71	50	174	227

- Quantity is Zero.

TABLE 6-25.
Years of Potential Life Lost Before Age 65 for Selected
Causes of Death, by County of Residence, Oregon, 1998

County of Residence	Total	Unintentional Injuries	Cancer	Heart Disease	Suicide	Congenital Anomalies	Perinatal Conditions	Homicide and Legal Intervention	Alcoholism*	Sudden Infant Death Syndrome	Cerebrovascular Disease
Total	122,992	27,500	22,356	12,281	11,771	6,310	5,128	4,409	4,011	2,903	2,520
Baker	752	126	75	90	169	-	-	33	57	-	100
Benton	1,846	304	348	114	231	65	130	40	59	65	70
Clackamas	10,729	2,150	2,400	1,282	977	536	650	210	232	194	189
Clatsop	1,458	422	186	163	324	21	-	64	52	-	43
Columbia	1,570	379	361	173	212	-	130	-	95	-	28
Coos	2,582	706	472	326	265	124	65	27	13	-	72
Crook	634	226	63	53	110	-	65	-	20	-	1
Curry	787	137	147	60	48	-	65	56	40	65	15
Deschutes	3,426	785	605	215	472	367	130	-	98	65	56
Douglas	4,093	835	837	527	573	154	260	28	118	129	59
Gilliam	-	-	-	-	-	-	-	-	-	-	-
Grant	339	62	120	82	-	-	-	-	-	-	2
Harney	307	94	53	17	-	-	65	20	-	-	-
Hood River	701	138	154	-	116	19	-	43	44	65	-
Jackson	6,455	1,238	1,243	554	821	326	195	168	246	129	208
Jefferson	968	437	84	15	43	65	65	44	69	-	-
Josephine	3,469	655	513	319	290	380	130	233	107	65	60
Klamath	3,180	598	533	314	272	311	65	137	108	129	35
Lake	189	-	42	33	-	-	-	32	28	-	-
Lane	12,346	2,891	2,350	1,209	1,235	633	520	446	425	194	272
Lincoln	2,033	358	449	193	247	130	65	104	78	65	20
Linn	3,355	1,012	589	451	211	155	130	46	96	65	98
Malheur	1,591	364	79	138	95	65	130	-	50	129	5
Marion	10,947	2,976	1,788	972	1,004	773	195	856	254	-	231
Morrow	283	90	127	3	15	-	-	-	-	-	24
Multnomah	26,074	5,624	4,542	2,727	1,893	830	844	966	981	645	557
Polk	1,669	360	249	235	137	128	-	46	69	-	61
Sherman	79	48	10	15	-	-	-	-	-	-	-
Tillamook	926	203	209	118	55	48	65	-	19	65	3
Umatilla	2,565	642	247	287	284	258	195	46	115	65	31
Union	717	295	175	62	100	-	-	19	5	-	7
Wallowa	305	121	20	18	26	-	65	-	-	-	-
Wasco	960	218	192	11	27	65	65	58	21	-	-
Washington	12,088	2,050	2,467	1,273	1,090	809	519	592	449	516	230
Wheeler	8	0	8	-	-	-	-	-	-	-	-
Yamhill	3,562	958	619	234	429	48	321	95	63	258	44

* Includes the alcohol-linked disorders represented by ICD-9 codes 291.0-291.9, 303, 305.0, 357.5, 425.5, 535.3 and 571.0-571.3.

TABLE 6-25.
Years of Potential Life Lost Before Age 65 for Selected Causes of Death, by
County of Residence, Oregon, 1998 (Continued)

County of Residence	Diabetes	Acquired Immune Deficiency Syndrome	Chronic Obstructive Pulmonary Disease	Undetermined Manner ¹	Pneumonia and Influenza	Hepatitis	Septicemia	Other Diseases of the Arteries	Epilepsy	Meningitis
Total	2,447	1,668	1,392	1,342	1,177	951	615	480	435	306
Baker	-	-	4	47	-	3	-	-	-	-
Benton	42	-	-	-	-	-	-	21	47	-
Clackamas	219	49	60	151	110	42	141	77	-	54
Clatsop	1	-	4	-	25	15	-	-	-	-
Columbia	28	-	27	20	24	5	7	12	-	-
Coos	53	36	42	-	70	44	45	3	34	-
Crook	1	-	10	-	37	-	18	2	-	-
Curry	10	41	7	-	-	-	-	28	-	-
Deschutes	55	34	74	17	6	34	15	16	57	-
Douglas	131	17	30	73	31	35	-	9	-	62
Gilliam	-	-	-	-	-	-	-	-	-	-
Grant	-	34	9	-	-	-	-	-	-	-
Harney	-	-	16	-	-	-	-	-	-	-
Hood River	-	-	-	-	14	17	-	-	-	-
Jackson	57	197	42	10	28	76	23	40	15	-
Jefferson	-	-	4	35	-	-	-	20	-	-
Josephine	108	19	51	20	70	3	38	7	-	64
Klamath	61	26	30	-	36	-	16	-	8	61
Lake	24	-	-	-	-	17	-	5	-	-
Lane	270	131	104	242	53	53	21	51	-	65
Lincoln	14	24	15	15	4	38	23	10	-	-
Linn	85	-	73	30	-	24	-	-	-	-
Malheur	15	-	44	-	25	24	4	-	-	-
Marion	180	139	65	58	104	84	103	16	38	-
Morrow	24	-	-	-	-	-	-	-	-	-
Multnomah	617	797	480	326	328	278	50	54	164	-
Polk	20	33	2	11	-	30	59	9	-	-
Sherman	-	-	6	-	-	-	-	-	-	-
Tillamook	32	-	5	-	18	-	12	-	-	-
Umatilla	12	-	40	13	-	29	-	-	-	-
Union	-	-	3	-	-	-	-	-	-	-
Wallowa	-	-	-	-	-	-	-	-	-	-
Wasco	9	23	4	47	36	39	-	7	-	-
Washington	332	27	117	171	125	35	17	63	72	-
Wheeler	-	-	-	-	-	-	-	-	-	-
Yamhill	47	41	24	56	33	26	23	30	-	-

¹ Injuries undetermined whether accidentally or purposely inflicted.

TABLE 6-26.
Median Age at Death, by Sex and County of Residence,
Oregon Residents, 1998

County of Residence	Total		Male		Female	
	Number	Median	Number	Median	Number	Median
Total	29,346	78	14,627	75	14,719	81
Baker	210	78	110	75	100	83
Benton	464	79	214	76	250	81
Clackamas	2,532	78	1,198	75	1,334	81
Clatsop	367	76	185	73	182	79
Columbia	337	74	180	72	157	76
Coos	817	77	424	75	393	80
Crook	166	77	81	75	85	78
Curry	324	78	173	76	151	81
Deschutes	873	77	443	75	430	80
Douglas	1,154	77	604	75	550	79
Gilliam	15	78	10	77	5	87
Grant	88	76	39	69	49	80
Harney	88	73	45	73	43	75
Hood River	156	78	73	76	83	81
Jackson	1,753	78	898	76	855	81
Jefferson	152	74	76	74	76	76
Josephine	993	78	512	75	481	82
Klamath	661	75	354	74	307	78
Lake	70	74	41	72	29	75
Lane	2,908	78	1,450	75	1,458	81
Lincoln	545	76	285	74	260	78
Linn	990	78	511	76	479	80
Malheur	295	78	156	74	139	84
Marion	2,406	78	1,183	75	1,223	81
Morrow	79	71	40	70	39	73
Multnomah	5,702	77	2,778	74	2,924	81
Polk	493	79	241	75	252	82
Sherman	22	70	14	71	8	66
Tillamook	291	77	152	76	139	78
Umatilla	534	77	284	72	250	80
Union	234	79	119	77	115	80
Wallowa	90	79	43	75	47	84
Wasco	263	80	142	79	121	83
Washington	2,581	78	1,216	76	1,365	80
Wheeler	13	75	7	75	6	76
Yamhill	680	77	346	75	334	81

TABLE 6-27.
Deaths by County of Residence by Race and Hispanic Ethnicity,
Oregon Residents, 1998

County of Residence	Total	Race							Hispanic ²
		White	African American	Indian	Chinese	Japanese	Other Asian and Pacific Islander	Other Non-white and Not Stated ¹	
Total	29,346	28,440	377	235	73	58	115	48	441
Baker	210	208	-	2	-	-	-	-	-
Benton	464	456	-	1	2	1	2	2	4
Clackamas	2,532	2,496	7	7	2	10	8	2	30
Clatsop	367	361	2	1	1	-	1	1	3
Columbia	337	331	-	1	-	1	3	1	3
Coos	817	807	-	8	-	2	-	-	6
Crook	166	164	-	2	-	-	-	-	4
Curry	324	320	1	2	-	-	1	-	2
Deschutes	873	869	-	3	-	-	1	-	6
Douglas	1,154	1,133	2	16	-	-	2	1	11
Gilliam	15	15	-	-	-	-	-	-	-
Grant	88	87	-	-	1	-	-	-	1
Harney	88	85	-	2	-	1	-	-	-
Hood River	156	153	-	-	-	3	-	-	8
Jackson	1,753	1,734	1	14	3	1	-	-	21
Jefferson	152	135	-	17	-	-	-	-	3
Josephine	993	981	2	8	1	1	-	-	13
Klamath	661	633	5	20	-	-	-	3	9
Lake	70	70	-	-	-	-	-	-	1
Lane	2,908	2,870	12	12	5	2	5	2	35
Lincoln	545	532	1	8	1	1	2	-	4
Linn	990	979	2	7	-	-	2	-	6
Malheur	295	286	1	2	-	5	-	1	33
Marion	2,406	2,367	16	11	1	4	1	6	69
Morrow	79	75	-	4	-	-	-	-	2
Multnomah	5,702	5,213	300	49	43	22	54	21	74
Polk	493	487	-	2	-	-	3	1	7
Sherman	22	22	-	-	-	-	-	-	-
Tillamook	291	289	-	2	-	-	-	-	-
Umatilla	534	518	2	12	1	-	1	-	15
Union	234	233	1	-	-	-	-	-	2
Wallowa	90	89	-	-	1	-	-	-	-
Wasco	263	256	1	6	-	-	-	-	5
Washington	2,581	2,502	18	10	11	4	29	7	48
Wheeler	13	13	-	-	-	-	-	-	-
Yamhill	680	671	3	6	-	-	-	-	16

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

² Decedents are classified by race and ethnicity. Most Hispanic decedents were white (424) 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, 1998

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
Total	29,314	1,714	5.8	3,483	1,104	31.7
Baker	180	6	3.3	49	6	12.2
Benton	501	28	5.6	30	15	50.0
Clackamas	2,401	129	5.4	237	72	30.4
Clatsop	324	15	4.6	66	14	21.2
Columbia	163	3	1.8	33	3	9.1
Coos	799	17	2.1	75	12	16.0
Crook	143	1	0.7	33	1	3.0
Curry	212	8	3.8	32	7	21.9
Deschutes	931	30	3.2	126	21	16.7
Douglas	1,150	51	4.4	126	37	29.4
Gilliam	10	-	-	1	-	-
Grant	75	2	2.7	9	2	22.2
Harney	78	2	2.6	19	1	5.3
Hood River	161	5	3.1	22	5	22.7
Jackson	1,808	64	3.5	172	49	28.5
Jefferson	120	2	1.7	20	2	10.0
Josephine	921	52	5.6	106	48	45.3
Klamath	652	52	8.0	105	48	45.7
Lake	68	5	7.4	17	4	23.5
Lane	2,974	184	6.2	306	144	47.1
Lincoln	487	21	4.3	74	16	21.6
Linn	838	33	3.9	99	26	26.3
Malheur	300	13	4.3	49	9	18.4
Marion	2,394	161	6.7	208	130	62.5
Morrow	45	2	4.4	5	2	40.0
Multnomah	6,767	587	8.7	872	294	33.7
Polk	371	23	6.2	55	20	36.4
Sherman	14	-	-	7	-	-
Tillamook	244	8	3.3	40	8	20.0
Umatilla	439	19	4.3	70	12	17.1
Union	228	4	1.8	31	4	12.9
Wallowa	77	-	-	7	-	-
Wasco	287	11	3.8	24	4	16.7
Washington	2,534	153	6.0	279	72	25.8
Wheeler	7	-	-	3	-	-
Yamhill	611	23	3.8	76	16	21.1
Manner of Death						
Natural	27,184	1,090	4.0	1,584	482	30.4
Accident	1,361	358	26.3	1,133	356	31.4
Suicide	568	89	15.7	566	89	15.7
Homicide	147	140	95.2	147	140	95.2
Undetermined	54	37	68.5	53	37	69.8

TABLE 6-29.
Deaths Occurring in Oregon by Disposal of Remains
and County of Residence, 1998

County of Residence	Total		Burial		Cremation		Mausoleum		Removal*		Other	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Total	29,314	100	10,912	37	15,549	53	1,139	4	1,568	5	146	0
Baker	187	100	111	59	48	26	1	1	27	14	-	-
Benton	456	100	160	35	256	56	18	4	17	4	5	1
Clackamas	2,489	100	948	38	1,268	51	161	6	96	4	16	1
Clatsop	351	100	125	36	207	59	7	2	12	3	-	-
Columbia	252	100	106	42	131	52	6	2	6	2	3	1
Coos	805	100	253	31	509	63	6	1	34	4	3	0
Crook	162	100	90	56	68	42	1	1	3	2	-	-
Curry	264	100	49	19	206	78	-	-	9	3	-	-
Deschutes	843	100	242	29	529	63	22	3	47	6	3	0
Douglas	1,135	100	370	33	707	62	14	1	36	3	8	1
Gilliam	15	100	8	53	7	47	-	-	-	-	-	-
Grant	86	100	45	52	39	45	-	-	2	2	-	-
Hamey	85	100	37	44	44	52	-	-	4	5	-	-
Hood River	152	100	81	53	56	37	1	1	14	9	-	-
Jackson	1,723	100	530	31	1,061	62	44	3	87	5	1	0
Jefferson	149	100	78	52	62	42	1	1	8	5	-	-
Josephine	974	100	275	28	626	64	8	1	64	7	1	0
Klamath	647	100	257	40	362	56	6	1	22	3	-	-
Lake	68	100	26	38	38	56	-	-	4	6	-	-
Lane	2,862	100	988	35	1,686	59	94	3	86	3	8	0
Lincoln	535	100	138	26	374	70	7	1	12	2	4	1
Linn	966	100	460	48	439	45	28	3	35	4	4	0
Malheur	242	100	136	56	36	15	-	-	70	29	-	-
Marion	2,371	100	1,039	44	1,117	47	108	5	92	4	15	1
Morrow	69	100	37	54	25	36	-	-	4	6	3	4
Multnomah	5,581	100	2,124	38	2,855	51	382	7	186	3	34	1
Polk	480	100	229	48	210	44	18	4	21	4	2	0
Sherman	19	100	6	32	12	63	-	-	1	5	-	-
Tillamook	283	100	109	39	159	56	5	2	6	2	4	1
Umatilla	433	100	222	51	152	35	3	1	54	12	2	0
Union	220	100	136	62	70	32	3	1	10	5	1	0
Wallowa	79	100	36	46	4	5	-	-	39	49	-	-
Wasco	254	100	112	44	114	45	12	5	14	6	2	1
Washington	2,525	100	863	34	1,365	54	134	5	142	6	21	1
Wheeler	13	100	6	46	7	54	-	-	-	-	-	-
Yamhill	672	100	305	45	282	42	44	7	37	6	4	1
Out-of-state	867	100	175	20	418	48	5	1	267	31	2	0

- Quantity is zero.

* Out of State.

TABLE 6-30.
Deaths Due to Unintended Injury by Principal Class
and County of Residence, Oregon, 1998

County of Residence	Total Unintended Injuries	Death Rate ¹	Motor Vehicle	Home	Occupational	Public	Unclassified
Total	1,337	40.9	545	329	34	262	166
Baker	6	35.9	4	1	-	-	1
Benton	17	22.2	9	2	-	3	3
Clackamas	98	30.3	40	22	1	19	16
Clatsop	19	54.8	9	4	2	-	4
Columbia	21	49.6	11	4	3	3	-
Coos	33	53.7	10	11	-	8	4
Crook	8	48.0	4	2	-	1	1
Curry	17	77.3	5	3	1	4	4
Deschutes	47	44.8	23	9	1	9	5
Douglas	49	48.9	26	6	1	9	7
Gilliam	-	-	-	-	-	-	-
Grant	3	37.5	1	1	-	1	-
Harney	6	78.9	3	1	1	-	1
Hood River	6	30.8	4	1	1	-	-
Jackson	64	37.0	26	19	3	9	7
Jefferson	12	69.0	8	2	-	1	1
Josephine	40	54.8	22	5	1	8	4
Klamath	26	41.9	13	7	1	2	3
Lake	2	27.0	1	1	-	-	-
Lane	137	43.8	57	42	4	21	12
Lincoln	16	37.0	7	3	-	6	-
Linn	54	52.8	24	13	2	5	10
Malheur	19	65.1	10	3	1	4	1
Marion	115	42.3	49	31	2	25	8
Morrow	7	74.5	2	3	-	2	-
Multnomah	274	42.7	74	82	4	76	38
Polk	20	33.6	5	8	1	3	3
Sherman	2	105.3	1	-	-	1	-
Tillamook	15	62.5	6	6	-	2	1
Umatilla	25	37.3	13	1	1	5	5
Union	12	49.2	5	2	-	5	-
Wallowa	6	83.3	5	-	-	1	-
Wasco	9	39.8	3	1	-	3	2
Washington	111	27.9	44	27	1	19	20
Wheeler	1	62.5	1	-	-	-	-
Yamhill	40	48.8	20	6	2	7	5

¹ Rate per 100,000 population.

- Quantity is zero.

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

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, 1998

County of Injury	Total Unintentional Injuries	Motor Vehicle	Falls	Poisoning	Drowning	Watercraft	Fires	Other
Total	1,150	550	183	172	63	19	25	138
Baker	10	9	-	-	-	-	-	1
Benton	11	8	2	-	-	-	-	1
Clackamas	79	39	13	7	6	-	2	12
Clatsop	17	8	-	2	-	3	1	3
Columbia	12	8	3	-	-	-	-	1
Coos	31	12	4	5	4	1	2	3
Crook	11	7	1	-	-	-	-	3
Curry	10	3	3	-	1	2	-	1
Deschutes	38	19	8	1	2	1	-	7
Douglas	42	28	3	1	4	1	1	4
Gilliam	1	1	-	-	-	-	-	-
Grant	5	2	1	-	1	-	-	1
Harney	9	6	1	-	-	-	1	1
Hood River	12	6	1	1	1	-	-	3
Jackson	63	31	15	4	1	-	3	9
Jefferson	12	10	1	1	-	-	-	-
Josephine	28	18	5	1	1	-	-	3
Klamath	29	17	4	2	1	-	2	3
Lake	10	9	-	-	1	-	-	-
Lane	126	48	13	32	9	3	6	15
Lincoln	18	9	-	2	4	1	-	2
Linn	47	28	10	3	2	1	-	3
Malheur	22	13	2	2	2	-	-	3
Marion	96	43	20	16	3	2	1	11
Morrow	4	2	2	-	-	-	-	-
Multnomah	214	65	31	74	12	2	5	25
Polk	19	9	2	4	2	-	-	2
Sherman	5	2	-	-	1	1	-	1
Tillamook	21	9	5	2	1	-	-	4
Umatilla	17	11	1	2	1	-	-	2
Union	9	4	3	-	1	-	-	1
Wallowa	4	4	-	-	-	-	-	-
Wasco	9	6	2	-	-	1	-	-
Washington	79	35	24	7	2	-	1	10
Wheeler	2	2	-	-	-	-	-	-
Yamhill	28	19	3	3	-	-	-	3

- Quantity is zero.

TABLE 6-32. Deaths by Selected Causes by City, Oregon Residents, 1998

Selected Causes of Death	Oregon Number	Oregon Rate	City of Residence					
			Portland		Eugene		Salem	
			No.	Rate	No.	Rate	No.	Rate
Total	29,346	898.1	4,790	939.9	1,240	929.1	1,393	1100.0
Tuberculosis (010-018, 137)	12	0.4	3	0.6	2	1.5	-	-
Septicemia (038)	163	5.0	28	5.5	3	2.2	14	11.1
AIDS (042-044)	71	2.2	34	6.7	3	2.2	5	3.9
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	76	2.3	20	3.9	1	0.7	4	3.2
Other infective & parasitic diseases (Residual 001-139)	92	2.8	13	2.6	4	3.0	7	5.5
Malignant neoplasms (140-208)	7,007	214.4	1,064	208.8	287	215.0	298	235.3
Buccal cavity & pharynx (140-149)	120	3.7	26	5.1	6	4.5	2	1.6
Digestive organs & peritoneum (150-159)	1,502	46.0	228	44.7	67	50.2	66	52.1
Large intestine (153)	570	17.4	78	15.3	28	21.0	20	15.8
Pancreas (157)	361	11.0	63	12.4	17	12.7	24	19.0
Respiratory/intrathoracic organs (160-165)	2,121	64.9	324	63.6	70	52.5	89	70.3
Bronchus and lung (162.2-162.9)	2,065	63.2	311	61.0	68	51.0	88	69.5
Malignant melanoma (172)	106	3.2	16	3.1	3	2.2	7	5.5
Other skin (173)	21	0.6	6	1.2	-	-	1	0.8
Breast (174-175)	531	16.3	71	13.9	35	26.2	25	19.7
Genital organs (179-187)	813	24.9	117	23.0	34	25.5	34	26.8
Cervix & uterus (179-182)	133	4.1	21	4.1	5	3.7	4	3.2
Ovary (183.0)	197	6.0	32	6.3	10	7.5	9	7.1
Prostate (185)	461	14.1	59	11.6	19	14.2	19	15.0
Urinary organs (188-189)	330	10.1	53	10.4	13	9.7	11	8.7
Leukemia (204-208)	252	7.7	28	5.5	13	9.7	9	7.1
Benign neoplasms (210-229)	16	0.5	4	0.8	-	-	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	59	1.8	10	2.0	3	2.2	6	4.7
Diabetes mellitus (250)	870	26.6	149	29.2	39	29.2	37	29.2
Nutritional deficiencies (260-269)	43	1.3	8	1.6	4	3.0	-	-
Anemias (280-285)	50	1.5	7	1.4	2	1.5	1	0.8
Alzheimer's dementia (290.1)	395	12.1	80	15.7	19	14.2	19	15.0
Alcoholic psychoses & alcoholism (291, 303)	105	3.2	32	6.3	2	1.5	3	2.4
Drug dependence (304)	20	0.6	9	1.8	-	-	1	0.8
Meningitis (320-322)	8	0.2	-	-	-	-	1	0.8
Alzheimer's disease (331.0)	411	12.6	62	12.2	26	19.5	13	10.3
Parkinson's disease (332)	275	8.4	54	10.6	16	12.0	12	9.5
Epilepsy (345)	16	0.5	5	1.0	-	-	1	0.8
Major cardiovascular diseases (390-448)	10,751	329.0	1,698	333.2	392	293.7	571	450.9
Diseases of the heart (390-398, 402, 404-429)	7,292	223.2	1,182	231.9	255	191.1	314	248.0
Rheumatic fever & chronic rheumatic heart disease (390-398)	84	2.6	21	4.1	3	2.2	7	5.5
Hypertensive heart disease with or without renal disease (402,404)	246	7.5	39	7.7	12	9.0	11	8.7
Ischemic heart disease (410-414)	4,685	143.4	770	151.1	160	119.9	194	153.2
Myocardial infarction (410)	1,819	55.7	268	52.6	54	40.5	76	60.0
Other acute & subacute (411)	1	0.0	1	0.2	-	-	-	-
Chronic ischemic heart disease (412-414)	2,865	87.7	501	98.3	106	79.4	118	93.2
All other forms (415-429)	2,277	69.7	352	69.1	80	59.9	102	80.5
Hypertension (401, 403)	201	6.2	34	6.7	13	9.7	14	11.1
Cerebrovascular disease (430-438)	2,636	80.7	392	76.9	96	71.9	215	169.8
Subarachnoid hemorrhage (430)	80	2.4	11	2.2	2	1.5	4	3.2
Intracerebral & intracranial hemorrhages (431-432)	337	10.3	60	11.8	10	7.5	12	9.5
Cerebral thrombosis & embolism (434)	330	10.1	33	6.5	3	2.2	107	84.5
Acute but ill-defined cerebrovascular disease (436)	1,470	45.0	225	44.2	63	47.2	76	60.0
Generalized ischemic cerebrovascular disease (437)	232	7.1	30	5.9	15	11.2	9	7.1
Arteriosclerosis (440)	228	7.0	32	6.3	13	9.7	10	7.9
Other diseases of arteries, arterioles and capillaries (441-448)	394	12.1	58	11.4	15	11.2	18	14.2
Venous thrombosis & embolism (451-453)	18	0.6	2	0.4	1	0.7	1	0.8
Pneumonia (480-486)	1,004	30.7	188	36.9	47	35.2	34	26.8
Influenza (487)	6	0.2	1	0.2	1	0.7	-	-
Bronchitis, emphysema, asthma and COPD (490-496)	1,638	50.1	257	50.4	72	53.9	77	60.8
Gastric, duodenal, and peptic ulcer (531-533)	44	1.3	6	1.2	3	2.2	6	4.7
Hernia & intestinal obstruction (550-553, 560)	79	2.4	7	1.4	1	0.7	4	3.2
Cirrhosis of the liver (571)	324	9.9	60	11.8	15	11.2	14	11.1
Alcoholic cirrhosis (571.0-571.3)	245	7.5	50	9.8	9	6.7	9	7.1
Diseases of the gallbladder (574-576)	57	1.7	11	2.2	1	0.7	1	0.8
Nephritis & nephrosis (580-589)	178	5.4	32	6.3	7	5.2	8	6.3
Infections of the kidney (590)	8	0.2	3	0.6	1	0.7	-	-
Diseases of male genital organs (600-608)	10	0.3	1	0.2	-	-	-	-
Diseases of the uterus and other female genital organs (614-629)	7	0.2	2	0.4	-	-	-	-
Complications of pregnancy, childbirth and the puerperium (630-676)	5	0.2	3	0.6	-	-	-	-
Congenital anomalies (740-759)	154	4.7	18	3.5	7	5.2	12	9.5
Certain causes in early infancy (760-779)	79	2.4	11	2.2	4	3.0	2	1.6
Sudden infant death syndrome (798.0)	45	1.4	7	1.4	2	1.5	-	-
Unintentional injuries (800-949)	1,337	40.9	228	44.7	71	53.2	59	46.6
Motor vehicle-related (810-825)	545	16.7	53	10.4	23	17.2	22	17.4
Suicides (950-959)	569	17.4	75	14.7	26	19.5	25	19.7
Homicides (960-978)	142	4.3	24	4.7	3	2.2	18	14.2
Injuries undetermined whether accidentally or purposely inflicted (980-989)	54	1.7	11	2.2	4	3.0	2	1.6

- Quantity is zero.

Rate per 100,000 population.

TABLE 6-33. Deaths by Selected Causes by County, Oregon Residents, 1998

Selected Causes of Death	County of Residence							
	Baker		Benton		Clackamas		Clatsop	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	210	1257.5	464	605.7	2,532	782.4	367	1057.6
Tuberculosis (010-018, 137)	-	-	-	-	2	0.6	-	-
Septicemia (038)	1	6.0	1	1.3	16	4.9	1	2.9
AIDS (042-044)	-	-	-	-	2	0.6	-	-
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	1	6.0	-	-	3	0.9	2	5.8
Other infective & parasitic diseases (Residual 001-139)	-	-	-	-	14	4.3	-	-
Malignant neoplasms (140-208)	59	353.3	115	150.1	621	191.9	82	236.3
Buccal cavity & pharynx (140-149)	-	-	-	1.3	13	4.0	1	2.9
Digestive organs & peritoneum (150-159)	13	77.8	26	33.9	134	41.4	15	43.2
Large intestine (153)	7	41.9	13	17.0	49	15.1	3	8.6
Pancreas (157)	2	12.0	4	5.2	38	11.7	5	14.4
Respiratory/intrathoracic organs (160-165)	13	77.8	27	35.2	176	54.4	27	77.8
Bronchus and lung (162.2-162.9)	13	77.8	25	32.6	175	54.1	26	74.9
Malignant melanoma (172)	-	-	1	1.3	11	3.4	2	5.8
Other skin (173)	-	-	-	-	1	0.3	-	-
Breast (174-175)	4	24.0	8	10.4	55	17.0	5	14.4
Genital organs (179-187)	4	24.0	16	20.9	71	21.9	13	37.5
Cervix & uterus (179-182)	-	-	6	7.8	11	3.4	3	8.6
Ovary (183.0)	-	-	2	2.6	26	8.0	1	2.9
Prostate (185)	4	24.0	8	10.4	33	10.2	9	25.9
Urinary organs (188-189)	7	41.9	10	13.1	28	8.7	4	11.5
Leukemia (204-208)	4	24.0	8	10.4	21	6.5	1	2.9
Benign neoplasms (210-229)	-	-	1	1.3	-	-	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	-	-	-	-	7	2.2	1	2.9
Diabetes mellitus (250)	3	18.0	18	23.5	87	26.9	10	28.8
Nutritional deficiencies (260-269)	-	-	-	-	5	1.5	-	-
Anemias (280-285)	-	-	-	-	6	1.9	1	2.9
Alzheimer's dementia (290.1)	1	6.0	9	11.7	34	10.5	2	5.8
Alcoholic psychoses & alcoholism (291, 303)	1	6.0	2	2.6	6	1.9	2	5.8
Drug dependence (304)	-	-	2	2.6	1	0.3	-	-
Meningitis (320-322)	-	-	-	-	1	0.3	-	-
Alzheimer's disease (331.0)	-	-	7	9.1	29	9.0	7	20.2
Parkinson's disease (332)	1	6.0	5	6.5	26	8.0	3	8.6
Epilepsy (345)	-	-	1	1.3	1	0.3	-	-
Major cardiovascular diseases (390-448)	77	461.1	178	232.4	949	293.3	144	415.0
Diseases of the heart (390-398, 402, 404-429)	51	305.4	119	155.4	659	203.6	104	299.7
Rheumatic fever & chronic rheumatic heart disease (390-398)	1	6.0	1	1.3	6	1.9	2	5.8
Hypertensive heart disease with or without renal disease (402,404)	-	-	6	7.8	31	9.6	2	5.8
Ischemic heart disease (410-414)	31	185.6	72	94.0	432	133.5	67	193.1
Myocardial infarction (410)	15	89.8	26	33.9	153	47.3	31	89.3
Other acute & subacute (411)	-	-	-	-	-	-	-	-
Chronic ischemic heart disease (412-414)	16	95.8	46	60.1	279	86.2	36	103.7
All other forms (415-429)	19	113.8	40	52.2	190	58.7	33	95.1
Hypertension (401, 403)	2	12.0	1	1.3	17	5.3	2	5.8
Cerebrovascular disease (430-438)	20	119.8	45	58.7	222	68.6	33	95.1
Subarachnoid hemorrhage (430)	1	6.0	3	3.9	8	2.5	-	-
Intracerebral & intracranial hemorrhages (431-432)	5	29.9	6	7.8	38	11.7	8	23.1
Cerebral thrombosis & embolism (434)	-	-	3	3.9	7	2.2	3	8.6
Acute but ill-defined cerebrovascular disease (436)	11	65.9	22	28.7	139	43.0	17	49.0
Generalized ischemic cerebrovascular disease (437)	2	12.0	10	13.1	16	4.9	5	14.4
Arteriosclerosis (440)	3	18.0	2	2.6	16	4.9	2	5.8
Other diseases of arteries, arterioles and capillaries (441-448)	1	6.0	11	14.4	35	10.8	3	8.6
Venous thrombosis & embolism (451-453)	-	-	-	-	-	-	1	2.9
Pneumonia (480-486)	5	29.9	11	14.4	112	34.6	13	37.5
Influenza (487)	-	-	-	-	1	0.3	-	-
Bronchitis, emphysema, asthma and COPD (490-496)	20	119.8	20	26.1	116	35.8	23	66.3
Gastric, duodenal, and peptic ulcer (531-533)	-	-	4	5.2	3	0.9	2	5.8
Hernia & intestinal obstruction (550-553, 560)	-	-	-	-	6	1.9	-	-
Cirrhosis of the liver (571)	4	24.0	5	6.5	28	8.7	5	14.4
Alcoholic cirrhosis (571.0-571.3)	2	12.0	4	5.2	18	5.6	4	11.5
Diseases of the gallbladder (574-576)	-	-	1	1.3	4	1.2	2	5.8
Nephritis & nephrosis (580-589)	2	12.0	1	1.3	14	4.3	3	8.6
Infections of the kidney (590)	1	6.0	-	-	-	-	-	-
Diseases of male genital organs (600-608)	-	-	1	1.3	1	0.3	1	2.9
Diseases of the uterus and other female genital organs (614-629)	-	-	-	-	2	0.6	-	-
Complications of pregnancy, childbirth and the puerperium (630-676)	-	-	-	-	1	0.3	-	-
Congenital anomalies (740-759)	-	-	1	1.3	14	4.3	1	2.9
Certain causes in early infancy (760-779)	-	-	2	2.6	10	3.1	-	-
Sudden infant death syndrome (798.0)	-	-	1	1.3	3	0.9	-	-
Unintentional injuries (800-949)	6	35.9	17	22.2	98	30.3	19	54.8
Motor vehicle-related (810-825)	4	24.0	9	11.7	40	12.4	9	25.9
Suicides (950-959)	7	41.9	9	11.7	42	13.0	14	40.3
Homicides (960-978)	1	6.0	1	1.3	7	2.2	2	5.8
Injuries undetermined whether accidentally or purposely inflicted (980-989)	1	6.0	-	-	5	1.5	-	-

- Quantity is zero.

Rates per 100,000 population.

TABLE 6-33. Deaths by Selected Causes by County, Oregon Residents, 1998 (Continued)

Selected Causes of Death	County of Residence							
	Columbia		Coos		Crook		Curry	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	337	796.7	817	1330.6	166	997.0	324	1472.7
Tuberculosis (010-018, 137)	-	-	1	1.6	-	-	-	-
Septicemia (038)	3	7.1	7	11.4	1	6.0	2	9.1
AIDS (042-044)	-	-	1	1.6	-	-	1	4.5
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	1	2.4	3	4.9	-	-	-	-
Other infective & parasitic diseases (Residual 001-139)	-	-	3	4.9	1	6.0	-	-
Malignant neoplasms (140-208)	88	208.0	204	332.2	38	228.2	85	386.4
Buccal cavity & pharynx (140-149)	1	2.4	5	8.1	-	-	-	-
Digestive organs & peritoneum (150-159)	18	42.6	37	60.3	5	30.0	16	72.7
Large intestine (153)	9	21.3	10	16.3	3	18.0	7	31.8
Pancreas (157)	1	2.4	11	17.9	1	6.0	3	13.6
Respiratory/intrathoracic organs (160-165)	22	52.0	77	125.4	13	78.1	29	131.8
Bronchus and lung (162.2-162.9)	22	52.0	74	120.5	13	78.1	29	131.8
Malignant melanoma (172)	-	-	1	1.6	1	6.0	3	13.6
Other skin (173)	1	2.4	1	1.6	-	-	-	-
Breast (174-175)	6	14.2	12	19.5	2	12.0	4	18.2
Genital organs (179-187)	13	30.7	25	40.7	5	30.0	11	50.0
Cervix & uterus (179-182)	3	7.1	6	9.8	2	12.0	-	-
Ovary (183.0)	5	11.8	6	9.8	1	6.0	2	9.1
Prostate (185)	5	11.8	13	21.2	2	12.0	8	36.4
Urinary organs (188-189)	7	16.5	7	11.4	3	18.0	5	22.7
Leukemia (204-208)	3	7.1	10	16.3	2	12.0	3	13.6
Benign neoplasms (210-229)	-	-	1	1.6	-	-	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	-	-	-	-	-	-	1	4.5
Diabetes mellitus (250)	11	26.0	28	45.6	1	6.0	7	31.8
Nutritional deficiencies (260-269)	-	-	-	-	-	-	-	-
Anemias (280-285)	-	-	1	1.6	-	-	1	4.5
Alzheimer's dementia (290.1)	6	14.2	6	9.8	-	-	6	27.3
Alcoholic psychoses & alcoholism (291, 303)	3	7.1	3	4.9	-	-	3	13.6
Drug dependence (304)	-	-	-	-	-	-	-	-
Meningitis (320-322)	-	-	-	-	-	-	-	-
Alzheimer's disease (331.0)	5	11.8	23	37.5	2	12.0	3	13.6
Parkinson's disease (332)	6	14.2	4	6.5	2	12.0	3	13.6
Epilepsy (345)	-	-	1	1.6	-	-	-	-
Major cardiovascular diseases (390-448)	120	283.7	311	506.5	72	432.4	119	540.9
Diseases of the heart (390-398, 402, 404-429)	85	200.9	226	368.1	48	288.3	90	409.1
Rheumatic fever & chronic rheumatic heart disease (390-398)	1	2.4	-	-	1	6.0	2	9.1
Hypertensive heart disease with or without renal disease (402,404)	4	9.5	3	4.9	6	36.0	2	9.1
Ischemic heart disease (410-414)	50	118.2	153	249.2	22	132.1	47	213.6
Myocardial infarction (410)	22	52.0	63	102.6	7	42.0	32	145.5
Other acute & subacute (411)	-	-	-	-	-	-	-	-
Chronic ischemic heart disease (412-414)	28	66.2	90	146.6	15	90.1	15	68.2
All other forms (415-429)	30	70.9	70	114.0	19	114.1	39	177.3
Hypertension (401, 403)	2	4.7	5	8.1	-	-	1	4.5
Cerebrovascular disease (430-438)	24	56.7	61	99.3	12	72.1	15	68.2
Subarachnoid hemorrhage (430)	1	2.4	5	8.1	-	-	-	-
Intracerebral & intracranial hemorrhages (431-432)	1	2.4	13	21.2	2	12.0	2	9.1
Cerebral thrombosis & embolism (434)	-	-	2	3.3	-	-	-	-
Acute but ill-defined cerebrovascular disease (436)	18	42.6	32	52.1	5	30.0	11	50.0
Generalized ischemic cerebrovascular disease (437)	2	4.7	4	6.5	5	30.0	1	4.5
Arteriosclerosis (440)	2	4.7	8	13.0	8	48.0	7	31.8
Other diseases of arteries, arterioles and capillaries (441-448)	7	16.5	11	17.9	4	24.0	6	27.3
Venous thrombosis & embolism (451-453)	-	-	-	-	-	-	-	-
Pneumonia (480-486)	9	21.3	20	32.6	14	84.1	8	36.4
Influenza (487)	-	-	-	-	-	-	-	-
Bronchitis, emphysema, asthma and COPD (490-496)	22	52.0	62	101.0	10	60.1	13	59.1
Gastric, duodenal, and peptic ulcer (531-533)	-	-	3	4.9	-	-	1	4.5
Hernia & intestinal obstruction (550-553, 560)	1	2.4	1	1.6	-	-	1	4.5
Cirrhosis of the liver (571)	5	11.8	3	4.9	2	12.0	2	9.1
Alcoholic cirrhosis (571.0-571.3)	3	7.1	3	4.9	2	12.0	1	4.5
Diseases of the gallbladder (574-576)	-	-	2	3.3	-	-	1	4.5
Nephritis & nephrosis (580-589)	4	9.5	6	9.8	-	-	-	-
Infections of the kidney (590)	-	-	1	1.6	-	-	-	-
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)	-	-	-	-	-	-	-	-
Congenital anomalies (740-759)	1	2.4	5	8.1	-	-	1	4.5
Certain causes in early infancy (760-779)	2	4.7	1	1.6	1	6.0	1	4.5
Sudden infant death syndrome (798.0)	-	-	-	-	-	-	1	4.5
Unintentional injuries (800-949)	21	49.6	33	53.7	8	48.0	17	77.3
Motor vehicle-related (810-825)	11	26.0	10	16.3	4	24.0	5	22.7
Suicides (950-959)	8	18.9	17	27.7	4	24.0	8	36.4
Homicides (960-978)	-	-	1	1.6	-	-	1	4.5
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, 1998 (Continued)

Selected Causes of Death	County of Residence							
	Deschutes		Douglas		Gilliam		Grant	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	873	832.2	1,154	1150.5	15	714.3	88	1100.0
Tuberculosis (010-018, 137)	-	-	-	-	-	-	-	-
Septicemia (038)	5	4.8	3	3.0	-	-	-	-
AIDS (042-044)	2	1.9	1	1.0	-	-	1	12.5
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	2	1.9	2	2.0	-	-	1	12.5
Other infective & parasitic diseases (Residual 001-139)	2	1.9	1	1.0	-	-	-	-
Malignant neoplasms (140-208)	222	211.6	304	303.1	6	285.7	25	312.5
Buccal cavity & pharynx (140-149)	3	2.9	10	10.0	-	-	-	-
Digestive organs & peritoneum (150-159)	55	52.4	63	62.8	4	190.5	7	87.5
Large intestine (153)	24	22.9	25	24.9	3	142.9	3	37.5
Pancreas (157)	13	12.4	20	19.9	1	47.6	2	25.0
Respiratory/intrathoracic organs (160-165)	63	60.1	102	101.7	1	47.6	1	12.5
Bronchus and lung (162.2-162.9)	58	55.3	100	99.7	1	47.6	1	12.5
Malignant melanoma (172)	7	6.7	3	3.0	-	-	-	-
Other skin (173)	-	-	-	-	-	-	-	-
Breast (174-175)	10	9.5	13	13.0	1	47.6	4	50.0
Genital organs (179-187)	28	26.7	35	34.9	-	-	4	50.0
Cervix & uterus (179-182)	4	3.8	6	6.0	-	-	-	-
Ovary (183.0)	5	4.8	7	7.0	-	-	1	12.5
Prostate (185)	19	18.1	20	19.9	-	-	3	37.5
Urinary organs (188-189)	12	11.4	10	10.0	-	-	1	12.5
Leukemia (204-208)	6	5.7	7	7.0	-	-	2	25.0
Benign neoplasms (210-229)	1	1.0	1	1.0	-	-	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	1	1.0	2	2.0	-	-	-	-
Diabetes mellitus (250)	28	26.7	45	44.9	-	-	2	25.0
Nutritional deficiencies (260-269)	1	1.0	1	1.0	-	-	-	-
Anemias (280-285)	-	-	2	2.0	-	-	-	-
Alzheimer's dementia (290.1)	5	4.8	17	16.9	-	-	-	-
Alcoholic psychoses & alcoholism (291, 303)	2	1.9	5	5.0	-	-	-	-
Drug dependence (304)	-	-	-	-	-	-	-	-
Meningitis (320-322)	-	-	1	1.0	-	-	-	-
Alzheimer's disease (331.0)	9	8.6	11	11.0	-	-	-	-
Parkinson's disease (332)	10	9.5	7	7.0	-	-	2	25.0
Epilepsy (345)	1	1.0	-	-	-	-	-	-
Major cardiovascular diseases (390-448)	312	297.4	420	418.7	7	333.3	33	412.5
Diseases of the heart (390-398, 402, 404-429)	206	196.4	319	318.0	5	238.1	22	275.0
Rheumatic fever & chronic rheumatic heart disease (390-398)	2	1.9	3	3.0	-	-	-	-
Hypertensive heart disease with or without renal disease (402,404)	6	5.7	8	8.0	1	47.6	-	-
Ischemic heart disease (410-414)	129	123.0	222	221.3	4	190.5	12	150.0
Myocardial infarction (410)	41	39.1	80	79.8	2	95.2	12	150.0
Other acute & subacute (411)	-	-	-	-	-	-	-	-
Chronic ischemic heart disease (412-414)	88	83.9	142	141.6	2	95.2	-	-
All other forms (415-429)	69	65.8	86	85.7	-	-	10	125.0
Hypertension (401, 403)	5	4.8	9	9.0	-	-	1	12.5
Cerebrovascular disease (430-438)	79	75.3	80	79.8	2	95.2	8	100.0
Subarachnoid hemorrhage (430)	4	3.8	3	3.0	-	-	-	-
Intracerebral & intracranial hemorrhages (431-432)	13	12.4	11	11.0	-	-	3	37.5
Cerebral thrombosis & embolism (434)	3	2.9	9	9.0	-	-	1	12.5
Acute but ill-defined cerebrovascular disease (436)	48	45.8	47	46.9	1	47.6	4	50.0
Generalized ischemic cerebrovascular disease (437)	8	7.6	7	7.0	-	-	-	-
Arteriosclerosis (440)	6	5.7	4	4.0	-	-	-	-
Other diseases of arteries, arterioles and capillaries (441-448)	16	15.3	8	8.0	-	-	2	25.0
Venous thrombosis & embolism (451-453)	-	-	-	-	-	-	-	-
Pneumonia (480-486)	27	25.7	29	28.9	-	-	4	50.0
Influenza (487)	1	1.0	-	-	-	-	-	-
Bronchitis, emphysema, asthma and COPD (490-496)	49	46.7	90	89.7	-	-	5	62.5
Gastric, duodenal, and peptic ulcer (531-533)	-	-	-	-	-	-	1	12.5
Hernia & intestinal obstruction (550-553, 560)	2	1.9	6	6.0	-	-	1	12.5
Cirrhosis of the liver (571)	10	9.5	8	8.0	-	-	1	12.5
Alcoholic cirrhosis (571.0-571.3)	8	7.6	6	6.0	-	-	1	12.5
Diseases of the gallbladder (574-576)	2	1.9	2	2.0	-	-	1	12.5
Nephritis & nephrosis (580-589)	3	2.9	8	8.0	-	-	-	-
Infections of the kidney (590)	-	-	-	-	-	-	-	-
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	1.0	-	-	-	-
Congenital anomalies (740-759)	6	5.7	6	6.0	-	-	1	12.5
Certain causes in early infancy (760-779)	2	1.9	4	4.0	-	-	-	-
Sudden infant death syndrome (798.0)	1	1.0	2	2.0	-	-	-	-
Unintentional injuries (800-949)	47	44.8	49	48.9	-	-	3	37.5
Motor vehicle-related (810-825)	23	21.9	26	25.9	-	-	1	12.5
Suicides (950-959)	20	19.1	20	19.9	-	-	1	12.5
Homicides (960-978)	-	-	3	3.0	-	-	-	-
Injuries undetermined whether accidentally or purposely inflicted (980-989)	1	1.0	2	2.0	-	-	-	-

- Quantity is zero.

Rates per 100,000 population.

TABLE 6-33. Deaths by Selected Causes by County, Oregon Residents, 1998 (Continued)

Selected Causes of Death	County of Residence							
	Harney		Hood River		Jackson		Jefferson	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	88	1157.9	156	800.0	1,753	1014.5	152	873.6
Tuberculosis (010-018, 137)	-	-	-	-	-	-	-	-
Septicemia (038)	-	-	1	5.1	7	4.1	-	-
AIDS (042-044)	-	-	-	-	7	4.1	-	-
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	-	-	1	5.1	4	2.3	-	-
Other infective & parasitic diseases (Residual 001-139)	-	-	1	5.1	5	2.9	1	5.7
Malignant neoplasms (140-208)	20	263.2	34	174.4	405	234.4	30	172.4
Buccal cavity & pharynx (140-149)	-	-	3	15.4	6	3.5	-	-
Digestive organs & peritoneum (150-159)	5	65.8	10	51.3	83	48.0	7	40.2
Large intestine (153)	4	52.6	2	10.3	38	22.0	4	23.0
Pancreas (157)	1	13.2	2	10.3	11	6.4	-	-
Respiratory/intrathoracic organs (160-165)	7	92.1	5	25.6	118	68.3	9	51.7
Bronchus and lung (162.2-162.9)	7	92.1	5	25.6	115	66.6	8	46.0
Malignant melanoma (172)	-	-	-	-	9	5.2	-	-
Other skin (173)	-	-	-	-	-	-	-	-
Breast (174-175)	-	-	4	20.5	28	16.2	2	11.5
Genital organs (179-187)	1	13.2	3	15.4	46	26.6	5	28.7
Cervix & uterus (179-182)	-	-	1	5.1	4	2.3	1	5.7
Ovary (183.0)	-	-	-	-	9	5.2	-	-
Prostate (185)	1	13.2	1	5.1	33	19.1	4	23.0
Urinary organs (188-189)	2	26.3	2	10.3	19	11.0	1	5.7
Leukemia (204-208)	-	-	1	5.1	24	13.9	-	-
Benign neoplasms (210-229)	-	-	-	-	-	-	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	-	-	-	-	4	2.3	-	-
Diabetes mellitus (250)	1	13.2	3	15.4	48	27.8	2	11.5
Nutritional deficiencies (260-269)	-	-	-	-	8	4.6	1	5.7
Anemias (280-285)	-	-	-	-	3	1.7	-	-
Alzheimer's dementia (290.1)	1	13.2	2	10.3	16	9.3	3	17.2
Alcoholic psychoses & alcoholism (291, 303)	-	-	-	-	9	5.2	-	-
Drug dependence (304)	-	-	-	-	1	0.6	-	-
Meningitis (320-322)	-	-	-	-	1	0.6	-	-
Alzheimer's disease (331.0)	-	-	1	5.1	41	23.7	2	11.5
Parkinson's disease (332)	1	13.2	5	25.6	17	9.8	1	5.7
Epilepsy (345)	-	-	-	-	1	0.6	-	-
Major cardiovascular diseases (390-448)	34	447.4	49	251.3	635	367.5	57	327.6
Diseases of the heart (390-398, 402, 404-429)	27	355.3	33	169.2	429	248.3	36	206.9
Rheumatic fever & chronic rheumatic heart disease (390-398)	-	-	1	5.1	2	1.2	-	-
Hypertensive heart disease with or without renal disease (402,404)	-	-	3	15.4	6	3.5	1	5.7
Ischemic heart disease (410-414)	21	276.3	19	97.4	281	162.6	24	137.9
Myocardial infarction (410)	15	197.4	11	56.4	101	58.4	5	28.7
Other acute & subacute (411)	-	-	-	-	-	-	-	-
Chronic ischemic heart disease (412-414)	6	78.9	8	41.0	180	104.2	19	109.2
All other forms (415-429)	6	78.9	10	51.3	140	81.0	11	63.2
Hypertension (401, 403)	-	-	2	10.3	9	5.2	-	-
Cerebrovascular disease (430-438)	7	92.1	10	51.3	163	94.3	14	80.5
Subarachnoid hemorrhage (430)	-	-	-	-	6	3.5	-	-
Intracerebral & intracranial hemorrhages (431-432)	2	26.3	2	10.3	19	11.0	-	-
Cerebral thrombosis & embolism (434)	1	13.2	-	-	9	5.2	2	11.5
Acute but ill-defined cerebrovascular disease (436)	2	26.3	6	30.8	106	61.3	8	46.0
Generalized ischemic cerebrovascular disease (437)	1	13.2	-	-	14	8.1	3	17.2
Arteriosclerosis (440)	-	-	2	10.3	11	6.4	2	11.5
Other diseases of arteries, arterioles and capillaries (441-448)	-	-	2	10.3	23	13.3	5	28.7
Venous thrombosis & embolism (451-453)	-	-	1	5.1	1	0.6	-	-
Pneumonia (480-486)	7	92.1	8	41.0	68	39.4	3	17.2
Influenza (487)	-	-	-	-	-	-	-	-
Bronchitis, emphysema, asthma and COPD (490-496)	4	52.6	10	51.3	107	61.9	12	69.0
Gastric, duodenal, and peptic ulcer (531-533)	-	-	-	-	3	1.7	-	-
Hernia & intestinal obstruction (550-553, 560)	-	-	-	-	4	2.3	-	-
Cirrhosis of the liver (571)	-	-	2	10.3	16	9.3	1	5.7
Alcoholic cirrhosis (571.0-571.3)	-	-	2	10.3	12	6.9	-	-
Diseases of the gallbladder (574-576)	-	-	-	-	5	2.9	1	5.7
Nephritis & nephrosis (580-589)	2	26.3	3	15.4	8	4.6	-	-
Infections of the kidney (590)	-	-	-	-	-	-	-	-
Diseases of male genital organs (600-608)	-	-	-	-	1	0.6	-	-
Diseases of the uterus and other female genital organs (614-629)	-	-	-	-	-	-	-	-
Complications of pregnancy, childbirth and the puerperium (630-676)	-	-	-	-	-	-	-	-
Congenital anomalies (740-759)	-	-	1	5.1	7	4.1	1	5.7
Certain causes in early infancy (760-779)	1	13.2	-	-	3	1.7	1	5.7
Sudden infant death syndrome (798.0)	-	-	1	5.1	2	1.2	-	-
Unintentional injuries (800-949)	6	78.9	6	30.8	64	37.0	12	69.0
Motor vehicle-related (810-825)	3	39.5	4	20.5	26	15.0	8	46.0
Suicides (950-959)	-	-	4	20.5	44	25.5	2	11.5
Homicides (960-978)	1	13.2	1	5.1	8	4.6	1	5.7
Injuries undetermined whether accidentally or purposely inflicted (980-989)	-	-	-	-	1	0.6	1	5.7

- Quantity is zero.

Rates per 100,000 population.

TABLE 6-33. Deaths by Selected Causes by County, Oregon Residents, 1998 (Continued)

Selected Causes of Death	County of Residence							
	Josephine		Klamath		Lake		Lane	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	993	1360.3	661	1066.1	70	945.9	2,908	929.1
Tuberculosis (010-018, 137)	-	-	-	-	-	-	4	1.3
Septicemia (038)	5	6.8	5	8.1	-	-	8	2.6
AIDS (042-044)	1	1.4	1	1.6	-	-	6	1.9
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	1	1.4	-	-	1	13.5	4	1.3
Other infective & parasitic diseases (Residual 001-139)	3	4.1	1	1.6	-	-	10	3.2
Malignant neoplasms (140-208)	238	326.0	162	261.3	21	283.8	728	232.6
Buccal cavity & pharynx (140-149)	5	6.8	3	4.8	1	13.5	13	4.2
Digestive organs & peritoneum (150-159)	49	67.1	41	66.1	3	40.5	164	52.4
Large intestine (153)	19	26.0	12	19.4	1	13.5	57	18.2
Pancreas (157)	6	8.2	10	16.1	1	13.5	42	13.4
Respiratory/intrathoracic organs (160-165)	75	102.7	58	93.5	7	94.6	219	70.0
Bronchus and lung (162.2-162.9)	71	97.3	56	90.3	7	94.6	213	68.1
Malignant melanoma (172)	4	5.5	1	1.6	-	-	7	2.2
Other skin (173)	3	4.1	-	-	-	-	4	1.3
Breast (174-175)	23	31.5	8	12.9	-	-	66	21.1
Genital organs (179-187)	30	41.1	20	32.3	3	40.5	82	26.2
Cervix & uterus (179-182)	4	5.5	5	8.1	-	-	9	2.9
Ovary (183.0)	6	8.2	4	6.5	1	13.5	28	8.9
Prostate (185)	17	23.3	10	16.1	2	27.0	45	14.4
Urinary organs (188-189)	10	13.7	7	11.3	-	-	28	8.9
Leukemia (204-208)	5	6.8	6	9.7	3	40.5	34	10.9
Benign neoplasms (210-229)	1	1.4	-	-	-	-	1	0.3
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	4	5.5	-	-	-	-	7	2.2
Diabetes mellitus (250)	18	24.7	28	45.2	5	67.6	99	31.6
Nutritional deficiencies (260-269)	1	1.4	1	1.6	-	-	6	1.9
Anemias (280-285)	-	-	-	-	-	-	3	1.0
Alzheimer's dementia (290.1)	17	23.3	8	12.9	-	-	43	13.7
Alcoholic psychoses & alcoholism (291, 303)	3	4.1	4	6.5	1	13.5	4	1.3
Drug dependence (304)	2	2.7	-	-	-	-	-	-
Meningitis (320-322)	1	1.4	1	1.6	-	-	1	0.3
Alzheimer's disease (331.0)	6	8.2	17	27.4	2	27.0	56	17.9
Parkinson's disease (332)	9	12.3	5	8.1	1	13.5	25	8.0
Epilepsy (345)	1	1.4	1	1.6	-	-	-	-
Major cardiovascular diseases (390-448)	390	534.2	202	325.8	24	324.3	974	311.2
Diseases of the heart (390-398, 402, 404-429)	264	361.6	134	216.1	19	256.8	647	206.7
Rheumatic fever & chronic rheumatic heart disease (390-398)	4	5.5	6	9.7	-	-	7	2.2
Hypertensive heart disease with or without renal disease (402,404)	6	8.2	1	1.6	-	-	19	6.1
Ischemic heart disease (410-414)	173	237.0	85	137.1	13	175.7	407	130.0
Myocardial infarction (410)	56	76.7	50	80.6	9	121.6	152	48.6
Other acute & subacute (411)	-	-	-	-	-	-	-	-
Chronic ischemic heart disease (412-414)	117	160.3	35	56.5	4	54.1	255	81.5
All other forms (415-429)	81	111.0	42	67.7	6	81.1	214	68.4
Hypertension (401, 403)	9	12.3	4	6.5	-	-	28	8.9
Cerebrovascular disease (430-438)	103	141.1	50	80.6	2	27.0	220	70.3
Subarachnoid hemorrhage (430)	1	1.4	-	-	-	-	8	2.6
Intracerebral & intracranial hemorrhages (431-432)	13	17.8	5	8.1	-	-	26	8.3
Cerebral thrombosis & embolism (434)	2	2.7	1	1.6	1	13.5	13	4.2
Acute but ill-defined cerebrovascular disease (436)	57	78.1	33	53.2	1	13.5	133	42.5
Generalized ischemic cerebrovascular disease (437)	21	28.8	3	4.8	-	-	31	9.9
Arteriosclerosis (440)	3	4.1	3	4.8	-	-	33	10.5
Other diseases of arteries, arterioles and capillaries (441-448)	11	15.1	11	17.7	3	40.5	46	14.7
Venous thrombosis & embolism (451-453)	1	1.4	-	-	-	-	3	1.0
Pneumonia (480-486)	29	39.7	19	30.6	1	13.5	80	25.6
Influenza (487)	-	-	-	-	-	-	1	0.3
Bronchitis, emphysema, asthma and COPD (490-496)	65	89.0	48	77.4	3	40.5	176	56.2
Gastric, duodenal, and peptic ulcer (531-533)	2	2.7	-	-	-	-	4	1.3
Hernia & intestinal obstruction (550-553, 560)	4	5.5	2	3.2	-	-	6	1.9
Cirrhosis of the liver (571)	10	13.7	7	11.3	2	27.0	37	11.8
Alcoholic cirrhosis (571.0-571.3)	10	13.7	3	4.8	1	13.5	25	8.0
Diseases of the gallbladder (574-576)	4	5.5	2	3.2	1	13.5	5	1.6
Nephritis & nephrosis (580-589)	1	1.4	5	8.1	1	13.5	19	6.1
Infections of the kidney (590)	-	-	-	-	-	-	1	0.3
Diseases of male genital organs (600-608)	1	1.4	1	1.6	-	-	-	-
Diseases of the uterus and other female genital organs (614-629)	-	-	1	1.6	-	-	-	-
Complications of pregnancy, childbirth and the puerperium (630-676)	-	-	-	-	-	-	-	-
Congenital anomalies (740-759)	8	11.0	8	12.9	-	-	14	4.5
Certain causes in early infancy (760-779)	2	2.7	1	1.6	-	-	8	2.6
Sudden infant death syndrome (798.0)	1	1.4	2	3.2	-	-	3	1.0
Unintentional injuries (800-949)	40	54.8	26	41.9	2	27.0	137	43.8
Motor vehicle-related (810-825)	22	30.1	13	21.0	1	13.5	57	18.2
Suicides (950-959)	19	26.0	12	19.4	-	-	58	18.5
Homicides (960-978)	9	12.3	6	9.7	1	13.5	16	5.1
Injuries undetermined whether accidentally or purposely inflicted (980-989)	1	1.4	-	-	-	-	8	2.6

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

TABLE 6-33. Deaths by Selected Causes by County, Oregon Residents, 1998 (Continued)

Selected Causes of Death	County of Residence							
	Lincoln		Linn		Malheur		Marion	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	545	1261.6	990	968.7	295	1010.3	2,406	884.9
Tuberculosis (010-018, 137)	-	-	-	-	-	-	-	-
Septicemia (038)	4	9.3	3	2.9	1	3.4	15	5.5
AIDS (042-044)	1	2.3	-	-	-	-	8	2.9
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	2	4.6	3	2.9	1	3.4	7	2.6
Other infective & parasitic diseases (Residual 001-139)	-	-	4	3.9	1	3.4	9	3.3
Malignant neoplasms (140-208)	149	344.9	237	231.9	52	178.1	534	196.4
Buccal cavity & pharynx (140-149)	2	4.6	6	5.9	-	-	2	0.7
Digestive organs & peritoneum (150-159)	31	71.8	46	45.0	8	27.4	112	41.2
Large intestine (153)	7	16.2	20	19.6	4	13.7	42	15.4
Pancreas (157)	12	27.8	10	9.8	-	-	32	11.8
Respiratory/intrathoracic organs (160-165)	46	106.5	73	71.4	18	61.6	172	63.3
Bronchus and lung (162.2-162.9)	45	104.2	70	68.5	17	58.2	170	62.5
Malignant melanoma (172)	2	4.6	1	1.0	1	3.4	8	2.9
Other skin (173)	-	-	1	1.0	-	-	2	0.7
Breast (174-175)	12	27.8	18	17.6	1	3.4	46	16.9
Genital organs (179-187)	22	50.9	28	27.4	8	27.4	67	24.6
Cervix & uterus (179-182)	4	9.3	8	7.8	3	10.3	9	3.3
Ovary (183.0)	6	13.9	2	2.0	2	6.8	13	4.8
Prostate (185)	12	27.8	16	15.7	3	10.3	42	15.4
Urinary organs (188-189)	4	9.3	14	13.7	4	13.7	24	8.8
Leukemia (204-208)	-	-	8	7.8	3	10.3	19	7.0
Benign neoplasms (210-229)	-	-	1	1.0	-	-	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	-	-	2	2.0	1	3.4	7	2.6
Diabetes mellitus (250)	17	39.4	22	21.5	9	30.8	63	23.2
Nutritional deficiencies (260-269)	-	-	1	1.0	1	3.4	2	0.7
Anemias (280-285)	-	-	4	3.9	2	6.8	3	1.1
Alzheimer's dementia (290.1)	7	16.2	10	9.8	4	13.7	28	10.3
Alcoholic psychoses & alcoholism (291, 303)	-	-	3	2.9	1	3.4	7	2.6
Drug dependence (304)	-	-	-	-	-	-	3	1.1
Meningitis (320-322)	-	-	-	-	-	-	1	0.4
Alzheimer's disease (331.0)	4	9.3	19	18.6	8	27.4	22	8.1
Parkinson's disease (332)	1	2.3	10	9.8	1	3.4	19	7.0
Epilepsy (345)	-	-	-	-	-	-	1	0.4
Major cardiovascular diseases (390-448)	213	493.1	378	369.9	102	349.3	998	367.0
Diseases of the heart (390-398, 402, 404-429)	153	354.2	249	243.6	75	256.8	583	214.4
Rheumatic fever & chronic rheumatic heart disease (390-398)	-	-	3	2.9	-	-	7	2.6
Hypertensive heart disease with or without renal disease (402,404)	5	11.6	10	9.8	4	13.7	23	8.5
Ischemic heart disease (410-414)	107	247.7	163	159.5	53	181.5	366	134.6
Myocardial infarction (410)	38	88.0	71	69.5	23	78.8	149	54.8
Other acute & subacute (411)	-	-	-	-	-	-	-	-
Chronic ischemic heart disease (412-414)	69	159.7	92	90.0	30	102.7	217	79.8
All other forms (415-429)	41	94.9	73	71.4	18	61.6	187	68.8
Hypertension (401, 403)	1	2.3	11	10.8	-	-	21	7.7
Cerebrovascular disease (430-438)	50	115.7	96	93.9	23	78.8	344	126.5
Subarachnoid hemorrhage (430)	3	6.9	4	3.9	-	-	6	2.2
Intracerebral & intracranial hemorrhages (431-432)	9	20.8	12	11.7	1	3.4	29	10.7
Cerebral thrombosis & embolism (434)	2	4.6	10	9.8	3	10.3	151	55.5
Acute but ill-defined cerebrovascular disease (436)	29	67.1	54	52.8	15	51.4	128	47.1
Generalized ischemic cerebrovascular disease (437)	3	6.9	9	8.8	-	-	10	3.7
Arteriosclerosis (440)	3	6.9	5	4.9	3	10.3	15	5.5
Other diseases of arteries, arterioles and capillaries (441-448)	6	13.9	17	16.6	1	3.4	35	12.9
Venous thrombosis & embolism (451-453)	-	-	1	1.0	-	-	3	1.1
Pneumonia (480-486)	16	37.0	21	20.5	15	51.4	64	23.5
Influenza (487)	-	-	-	-	-	-	-	-
Bronchitis, emphysema, asthma and COPD (490-496)	26	60.2	51	49.9	18	61.6	109	40.1
Gastric, duodenal, and peptic ulcer (531-533)	1	2.3	1	1.0	1	3.4	5	1.8
Hernia & intestinal obstruction (550-553, 560)	1	2.3	4	3.9	1	3.4	10	3.7
Cirrhosis of the liver (571)	11	25.5	10	9.8	4	13.7	20	7.4
Alcoholic cirrhosis (571.0-571.3)	10	23.1	5	4.9	3	10.3	16	5.9
Diseases of the gallbladder (574-576)	-	-	-	-	1	3.4	3	1.1
Nephritis & nephrosis (580-589)	3	6.9	6	5.9	1	3.4	17	6.3
Infections of the kidney (590)	-	-	-	-	-	-	1	0.4
Diseases of male genital organs (600-608)	-	-	1	1.0	-	-	1	0.4
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	4.6	6	5.9	1	3.4	18	6.6
Certain causes in early infancy (760-779)	1	2.3	2	2.0	2	6.8	3	1.1
Sudden infant death syndrome (798.0)	1	2.3	1	1.0	2	6.8	-	-
Unintentional injuries (800-949)	16	37.0	54	52.8	19	65.1	115	42.3
Motor vehicle-related (810-825)	7	16.2	24	23.5	10	34.2	49	18.0
Suicides (950-959)	15	34.7	13	12.7	6	20.5	44	16.2
Homicides (960-978)	3	6.9	2	2.0	-	-	23	8.5
Injuries undetermined whether accidentally or purposely inflicted (980-989)	1	2.3	2	2.0	1	3.4	3	1.1

- Quantity is zero.

Rates per 100,000 population.

TABLE 6-33. Deaths by Selected Causes by County, Oregon Residents, 1998 (Continued)

Selected Causes of Death	County of Residence							
	Morrow		Multnomah		Polk		Sherman	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	79	840.4	5,702	888.3	493	828.6	22	1157.9
Tuberculosis (010-018, 137)	-	-	4	0.6	-	-	-	-
Septicemia (038)	1	10.6	31	4.8	4	6.7	-	-
AIDS (042-044)	-	-	35	5.5	1	1.7	-	-
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	-	-	22	3.4	2	3.4	-	-
Other infective & parasitic diseases (Residual 001-139)	-	-	15	2.3	1	1.7	-	-
Malignant neoplasms (140-208)	28	297.9	1,294	201.6	122	205	4	210.5
Buccal cavity & pharynx (140-149)	-	-	33	5.1	1	1.7	-	-
Digestive organs & peritoneum (150-159)	3	31.9	274	42.7	33	55.5	-	-
Large intestine (153)	1	10.6	100	15.6	8	13.4	-	-
Pancreas (157)	-	-	72	11.2	10	16.8	-	-
Respiratory/intrathoracic organs (160-165)	8	85.1	393	61.2	31	52.1	1	52.6
Bronchus and lung (162.2-162.9)	8	85.1	379	59.0	31	52.1	1	52.6
Malignant melanoma (172)	2	21.3	18	2.8	-	-	-	-
Other skin (173)	-	-	7	1.1	-	-	-	-
Breast (174-175)	2	21.3	90	14.0	7	11.8	-	-
Genital organs (179-187)	2	21.3	145	22.6	14	23.5	-	-
Cervix & uterus (179-182)	-	-	25	3.9	5	8.4	-	-
Ovary (183.0)	-	-	40	6.2	2	3.4	-	-
Prostate (185)	2	21.3	75	11.7	7	11.8	-	-
Urinary organs (188-189)	3	31.9	63	9.8	7	11.8	1	52.6
Leukemia (204-208)	-	-	37	5.8	5	8.4	-	-
Benign neoplasms (210-229)	-	-	5	0.8	-	-	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	-	-	10	1.6	4	6.7	-	-
Diabetes mellitus (250)	8	85.1	175	27.3	5	8.4	1	52.6
Nutritional deficiencies (260-269)	1	10.6	8	1.2	-	-	-	-
Anemias (280-285)	-	-	8	1.2	1	1.7	-	-
Alzheimer's dementia (290.1)	1	10.6	101	15.7	2	3.4	1	52.6
Alcoholic psychoses & alcoholism (291, 303)	-	-	33	5.1	2	3.4	-	-
Drug dependence (304)	-	-	10	1.6	-	-	-	-
Meningitis (320-322)	-	-	-	-	-	-	-	-
Alzheimer's disease (331.0)	1	10.6	83	12.9	3	5.0	-	-
Parkinson's disease (332)	-	-	63	9.8	3	5.0	-	-
Epilepsy (345)	-	-	5	0.8	-	-	-	-
Major cardiovascular diseases (390-448)	21	223.4	2,002	311.9	216	363.0	9	473.7
Diseases of the heart (390-398, 402, 404-429)	17	180.9	1,396	217.5	121	203.4	6	315.8
Rheumatic fever & chronic rheumatic heart disease (390-398)	-	-	23	3.6	2	3.4	-	-
Hypertensive heart disease with or without renal disease (402,404)	-	-	49	7.6	3	5.0	-	-
Ischemic heart disease (410-414)	10	106.4	894	139.3	82	137.8	4	210.5
Myocardial infarction (410)	8	85.1	318	49.5	24	40.3	1	52.6
Other acute & subacute (411)	-	-	1	0.2	-	-	-	-
Chronic ischemic heart disease (412-414)	2	21.3	575	89.6	58	97.5	3	157.9
All other forms (415-429)	7	74.5	430	67.0	34	57.1	2	105.3
Hypertension (401, 403)	-	-	43	6.7	6	10.1	1	52.6
Cerebrovascular disease (430-438)	4	42.6	456	71.0	82	137.8	1	52.6
Subarachnoid hemorrhage (430)	-	-	12	1.9	-	-	-	-
Intracerebral & intracranial hemorrhages (431-432)	2	21.3	67	10.4	2	3.4	-	-
Cerebral thrombosis & embolism (434)	-	-	38	5.9	42	70.6	-	-
Acute but ill-defined cerebrovascular disease (436)	1	10.6	263	41.0	32	53.8	1	52.6
Generalized ischemic cerebrovascular disease (437)	1	10.6	35	5.5	5	8.4	-	-
Arteriosclerosis (440)	-	-	42	6.5	3	5.0	-	-
Other diseases of arteries, arterioles and capillaries (441-448)	-	-	65	10.1	4	6.7	1	52.6
Venous thrombosis & embolism (451-453)	-	-	3	0.5	1	1.7	-	-
Pneumonia (480-486)	3	31.9	228	35.5	10	16.8	1	52.6
Influenza (487)	-	-	1	0.2	-	-	-	-
Bronchitis, emphysema, asthma and COPD (490-496)	2	21.3	310	48.3	23	38.7	2	105.3
Gastric, duodenal, and peptic ulcer (531-533)	-	-	8	1.2	1	1.7	-	-
Hernia & intestinal obstruction (550-553, 560)	-	-	10	1.6	2	3.4	-	-
Cirrhosis of the liver (571)	-	-	71	11.1	4	6.7	-	-
Alcoholic cirrhosis (571.0-571.3)	-	-	57	8.9	3	5.0	-	-
Diseases of the gallbladder (574-576)	-	-	11	1.7	-	-	-	-
Nephritis & nephrosis (580-589)	-	-	37	5.8	2	3.4	-	-
Infections of the kidney (590)	-	-	3	0.5	-	-	-	-
Diseases of male genital organs (600-608)	-	-	1	0.2	1	1.7	-	-
Diseases of the uterus and other female genital organs (614-629)	-	-	2	0.3	2	3.4	-	-
Complications of pregnancy, childbirth and the puerperium (630-676)	-	-	3	0.5	-	-	-	-
Congenital anomalies (740-759)	-	-	21	3.3	2	3.4	-	-
Certain causes in early infancy (760-779)	-	-	13	2.0	-	-	-	-
Sudden infant death syndrome (798.0)	-	-	10	1.6	-	-	-	-
Unintentional injuries (800-949)	7	74.5	274	42.7	20	33.6	2	105.3
Motor vehicle-related (810-825)	2	21.3	74	11.5	5	8.4	1	52.6
Suicides (950-959)	1	10.6	95	14.8	6	10.1	1	52.6
Homicides (960-978)	-	-	27	4.2	2	3.4	-	-
Injuries undetermined whether accidentally or purposely inflicted (980-989)	-	-	14	2.2	1	1.7	-	-

- Quantity is zero.

Rates per 100,000 population.

TABLE 6-33. Deaths by Selected Causes by County, Oregon Residents, 1998 (Continued)

Selected Causes of Death	County of Residence							
	Tillamook		Umatilla		Union		Wallowa	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	291	1212.5	534	795.8	234	959.0	90	1250.0
Tuberculosis (010-018, 137)	-	-	-	-	-	-	-	-
Septicemia (038)	5	20.8	2	3.0	2	8.2	-	-
AIDS (042-044)	-	-	-	-	-	-	-	-
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	-	-	4	6.0	-	-	-	-
Other infective & parasitic diseases (Residual 001-139)	2	8.3	2	3.0	-	-	-	-
Malignant neoplasms (140-208)	77	320.8	121	180.3	49	200.8	24	333.3
Buccal cavity & pharynx (140-149)	1	4.2	1	1.5	1	4.1	-	-
Digestive organs & peritoneum (150-159)	16	66.7	24	35.8	10	41.0	7	97.2
Large intestine (153)	6	25.0	11	16.4	5	20.5	3	41.7
Pancreas (157)	5	20.8	3	4.5	1	4.1	1	13.9
Respiratory/intrathoracic organs (160-165)	27	112.5	36	53.7	17	69.7	4	55.6
Bronchus and lung (162.2-162.9)	27	112.5	36	53.7	16	65.6	4	55.6
Malignant melanoma (172)	3	12.5	-	-	3	12.3	-	-
Other skin (173)	-	-	-	-	-	-	-	-
Breast (174-175)	7	29.2	12	17.9	1	4.1	1	13.9
Genital organs (179-187)	10	41.7	19	28.3	8	32.8	1	13.9
Cervix & uterus (179-182)	1	4.2	4	6.0	2	8.2	-	-
Ovary (183.0)	2	8.3	5	7.5	2	8.2	-	-
Prostate (185)	7	29.2	10	14.9	4	16.4	1	13.9
Urinary organs (188-189)	3	12.5	7	10.4	-	-	2	27.8
Leukemia (204-208)	2	8.3	1	1.5	1	4.1	1	13.9
Benign neoplasms (210-229)	-	-	2	3.0	-	-	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	1	4.2	1	1.5	-	-	-	-
Diabetes mellitus (250)	9	37.5	15	22.4	6	24.6	3	41.7
Nutritional deficiencies (260-269)	-	-	2	3.0	1	4.1	-	-
Anemias (280-285)	1	4.2	-	-	1	4.1	-	-
Alzheimer's dementia (290.1)	1	4.2	7	10.4	2	8.2	1	13.9
Alcoholic psychoses & alcoholism (291, 303)	2	8.3	1	1.5	1	4.1	-	-
Drug dependence (304)	-	-	-	-	1	4.1	-	-
Meningitis (320-322)	-	-	-	-	-	-	-	-
Alzheimer's disease (331.0)	1	4.2	6	8.9	2	8.2	1	13.9
Parkinson's disease (332)	-	-	3	4.5	3	12.3	-	-
Epilepsy (345)	-	-	-	-	-	-	-	-
Major cardiovascular diseases (390-448)	107	445.8	198	295.1	83	340.2	30	416.7
Diseases of the heart (390-398, 402, 404-429)	71	295.8	147	219.1	62	254.1	17	236.1
Rheumatic fever & chronic rheumatic heart disease (390-398)	-	-	2	3.0	2	8.2	-	-
Hypertensive heart disease with or without renal disease (402,404)	2	8.3	11	16.4	1	4.1	1	13.9
Ischemic heart disease (410-414)	51	212.5	88	131.1	31	127.0	9	125.0
Myocardial infarction (410)	19	79.2	53	79.0	9	36.9	5	69.4
Other acute & subacute (411)	-	-	-	-	-	-	-	-
Chronic ischemic heart disease (412-414)	32	133.3	35	52.2	22	90.2	4	55.6
All other forms (415-429)	18	75.0	46	68.6	28	114.8	7	97.2
Hypertension (401, 403)	2	8.3	1	1.5	1	4.1	1	13.9
Cerebrovascular disease (430-438)	26	108.3	40	59.6	14	57.4	12	166.7
Subarachnoid hemorrhage (430)	1	4.2	-	-	-	-	1	13.9
Intracerebral & intracranial hemorrhages (431-432)	2	8.3	7	10.4	1	4.1	-	-
Cerebral thrombosis & embolism (434)	1	4.2	2	3.0	-	-	2	27.8
Acute but ill-defined cerebrovascular disease (436)	19	79.2	23	34.3	13	53.3	6	83.3
Generalized ischemic cerebrovascular disease (437)	1	4.2	2	3.0	-	-	2	27.8
Arteriosclerosis (440)	2	8.3	2	3.0	2	8.2	-	-
Other diseases of arteries, arterioles and capillaries (441-448)	6	25.0	8	11.9	4	16.4	-	-
Venous thrombosis & embolism (451-453)	-	-	-	-	-	-	-	-
Pneumonia (480-486)	14	58.3	16	23.8	11	45.1	5	69.4
Influenza (487)	-	-	-	-	-	-	-	-
Bronchitis, emphysema, asthma and COPD (490-496)	16	66.7	28	41.7	18	73.8	4	55.6
Gastric, duodenal, and peptic ulcer (531-533)	-	-	2	3.0	-	-	-	-
Hernia & intestinal obstruction (550-553, 560)	1	4.2	2	3.0	1	4.1	-	-
Cirrhosis of the liver (571)	3	12.5	12	17.9	2	8.2	1	13.9
Alcoholic cirrhosis (571.0-571.3)	3	12.5	11	16.4	1	4.1	-	-
Diseases of the gallbladder (574-576)	1	4.2	1	1.5	-	-	-	-
Nephritis & nephrosis (580-589)	1	4.2	3	4.5	3	12.3	-	-
Infections of the kidney (590)	-	-	-	-	-	-	-	-
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)	3	12.5	6	8.9	-	-	-	-
Certain causes in early infancy (760-779)	1	4.2	3	4.5	-	-	1	13.9
Sudden infant death syndrome (798.0)	1	4.2	1	1.5	-	-	-	-
Unintentional injuries (800-949)	15	62.5	25	37.3	12	49.2	6	83.3
Motor vehicle-related (810-825)	6	25.0	13	19.4	5	20.5	5	69.4
Suicides (950-959)	3	12.5	13	19.4	7	28.7	2	27.8
Homicides (960-978)	-	-	4	6.0	1	4.1	-	-
Injuries undetermined whether accidentally or purposely inflicted (980-989)	-	-	1	1.5	-	-	-	-

- Quantity is zero.

Rates per 100,000 population.

TABLE 6-33. Deaths by Selected Causes by County, Oregon Residents, 1998 (Continued)

Selected Causes of Death	County of Residence							
	Wasco		Washington		Wheeler		Yamhill	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total	263	1163.7	2,581	649.1	13	812.5	680	830.3
Tuberculosis (010-018, 137)	-	-	1	0.3	-	-	-	-
Septicemia (038)	2	8.8	22	5.5	-	-	5	6.1
AIDS (042-044)	1	4.4	1	0.3	-	-	1	1.2
Measles (055)	-	-	-	-	-	-	-	-
Viral hepatitis (070)	2	8.8	4	1.0	-	-	3	3.7
Other infective & parasitic diseases (Residual 001-139)	-	-	13	3.3	-	-	3	3.7
Malignant neoplasms (140-208)	49	216.8	613	154.2	4	250.0	163	199.0
Buccal cavity & pharynx (140-149)	1	4.4	7	1.8	-	-	-	-
Digestive organs & peritoneum (150-159)	11	48.7	132	33.2	1	62.5	39	47.6
Large intestine (153)	4	17.7	48	12.1	-	-	18	22.0
Pancreas (157)	3	13.3	30	7.5	1	62.5	7	8.5
Respiratory/intrathoracic organs (160-165)	13	57.5	181	45.5	1	62.5	51	62.3
Bronchus and lung (162.2-162.9)	12	53.1	178	44.8	1	62.5	51	62.3
Malignant melanoma (172)	-	-	13	3.3	-	-	5	6.1
Other skin (173)	-	-	-	-	-	-	1	1.2
Breast (174-175)	6	26.5	58	14.6	-	-	15	18.3
Genital organs (179-187)	4	17.7	61	15.3	1	62.5	8	9.8
Cervix & uterus (179-182)	-	-	7	1.8	-	-	-	-
Ovary (183.0)	2	8.8	13	3.3	1	62.5	3	3.7
Prostate (185)	2	8.8	38	9.6	-	-	5	6.1
Urinary organs (188-189)	4	17.7	22	5.5	-	-	9	11.0
Leukemia (204-208)	2	8.8	26	6.5	-	-	7	8.5
Benign neoplasms (210-229)	-	-	2	0.5	-	-	-	-
In situ, uncertain behavior & unspecified nature neoplasms (230-239)	-	-	4	1.0	-	-	2	2.4
Diabetes mellitus (250)	7	31.0	63	15.8	1	62.5	22	26.9
Nutritional deficiencies (260-269)	-	-	1	0.3	-	-	2	2.4
Anemias (280-285)	2	8.8	6	1.5	-	-	5	6.1
Alzheimer's dementia (290.1)	7	31.0	35	8.8	-	-	12	14.7
Alcoholic psychoses & alcoholism (291, 303)	-	-	7	1.8	-	-	-	-
Drug dependence (304)	-	-	-	-	-	-	-	-
Meningitis (320-322)	-	-	1	0.3	-	-	-	-
Alzheimer's disease (331.0)	1	4.4	33	8.3	-	-	6	7.3
Parkinson's disease (332)	1	4.4	32	8.0	-	-	6	7.3
Epilepsy (345)	-	-	3	0.8	-	-	-	-
Major cardiovascular diseases (390-448)	103	455.8	960	241.4	3	187.5	221	269.8
Diseases of the heart (390-398, 402, 404-429)	63	278.8	667	167.8	2	125.0	140	170.9
Rheumatic fever & chronic rheumatic heart disease (390-398)	1	4.4	4	1.0	-	-	1	1.2
Hypertensive heart disease with or without renal disease (402,404)	2	8.8	21	5.3	-	-	9	11.0
Ischemic heart disease (410-414)	41	181.4	437	109.9	-	-	85	103.8
Myocardial infarction (410)	17	75.2	167	42.0	-	-	34	41.5
Other acute & subacute (411)	-	-	-	-	-	-	-	-
Chronic ischemic heart disease (412-414)	24	106.2	270	67.9	-	-	51	62.3
All other forms (415-429)	19	84.1	205	51.6	2	125.0	45	54.9
Hypertension (401, 403)	3	13.3	7	1.8	-	-	6	7.3
Cerebrovascular disease (430-438)	28	123.9	229	57.6	1	62.5	60	73.3
Subarachnoid hemorrhage (430)	-	-	11	2.8	-	-	2	2.4
Intracerebral & intracranial hemorrhages (431-432)	1	4.4	29	7.3	1	62.5	5	6.1
Cerebral thrombosis & embolism (434)	5	22.1	10	2.5	-	-	7	8.5
Acute but ill-defined cerebrovascular disease (436)	14	61.9	138	34.7	-	-	33	40.3
Generalized ischemic cerebrovascular disease (437)	3	13.3	19	4.8	-	-	9	11.0
Arteriosclerosis (440)	-	-	31	7.8	-	-	8	9.8
Other diseases of arteries, arterioles and capillaries (441-448)	9	39.8	26	6.5	-	-	7	8.5
Venous thrombosis & embolism (451-453)	-	-	3	0.8	-	-	-	-
Pneumonia (480-486)	13	57.5	95	23.9	2	125.0	23	28.1
Influenza (487)	-	-	2	0.5	-	-	-	-
Bronchitis, emphysema, asthma and COPD (490-496)	15	66.4	130	32.7	1	62.5	30	36.6
Gastric, duodenal, and peptic ulcer (531-533)	-	-	1	0.3	-	-	1	1.2
Hernia & intestinal obstruction (550-553, 560)	-	-	12	3.0	-	-	1	1.2
Cirrhosis of the liver (571)	1	4.4	33	8.3	-	-	4	4.9
Alcoholic cirrhosis (571.0-571.3)	1	4.4	27	6.8	-	-	3	3.7
Diseases of the gallbladder (574-576)	1	4.4	4	1.0	-	-	2	2.4
Nephritis & nephrosis (580-589)	6	26.5	12	3.0	-	-	7	8.5
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)	1	4.4	18	4.5	-	-	1	1.2
Certain causes in early infancy (760-779)	1	4.4	8	2.0	-	-	5	6.1
Sudden infant death syndrome (798.0)	-	-	8	2.0	-	-	4	4.9
Unintentional injuries (800-949)	9	39.8	111	27.9	1	62.5	40	48.8
Motor vehicle-related (810-825)	3	13.3	44	11.1	1	62.5	20	24.4
Suicides (950-959)	3	13.3	53	13.3	-	-	18	22.0
Homicides (960-978)	3	13.3	16	4.0	-	-	2	2.4
Injuries undetermined whether accidentally or purposely inflicted (980-989)	2	8.8	5	1.3	-	-	3	3.7

- 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, 1998

County of Residence	Heart Disease	Malignant Neoplasms	Cerebrovascular Disease	Chronic Obstructive Pulmonary Disease	Pneumonia & Influenza	Diabetes	Alzheimer's Disease & Dementia	Alcoholism*	Hypertension	Acquired Immune Deficiency Syndrome
Total	3,876	878	1,503	1,916	1,234	1,935	492	287	2,233	13
Baker	20	1	3	14	9	6	4	3	6	-
Benton	57	11	20	18	20	28	13	1	28	-
Clackamas	316	81	127	133	108	173	66	23	196	-
Clatsop	40	13	12	17	25	28	3	4	19	-
Columbia	39	9	14	20	19	25	8	2	17	-
Coos	132	33	56	71	52	67	17	13	63	-
Crook	26	5	11	18	5	17	5	2	17	-
Curry	46	11	17	22	18	12	5	1	20	-
Deschutes	102	15	35	50	23	58	6	5	68	-
Douglas	223	33	62	133	56	99	20	11	118	-
Gilliam	2	1	-	1	1	5	-	-	2	-
Grant	10	2	10	1	3	1	1	-	7	-
Harney	14	4	6	11	4	9	1	2	10	-
Hood River	21	4	7	8	11	9	1	2	13	-
Jackson	206	45	87	121	64	97	24	25	125	-
Jefferson	19	5	4	7	11	7	1	2	11	-
Josephine	149	26	66	85	41	75	8	19	91	-
Klamath	92	14	21	58	46	32	5	7	62	-
Lake	8	2	3	7	4	3	2	1	1	-
Lane	373	78	138	194	97	182	50	26	196	1
Lincoln	54	18	35	37	23	25	10	3	43	1
Linn	150	29	59	74	42	63	14	10	61	-
Malheur	20	7	10	11	11	15	7	3	20	-
Marion	282	59	112	129	82	153	41	38	162	-
Morrow	12	4	5	5	7	5	1	1	8	-
Multnomah	744	177	326	348	234	383	91	50	471	8
Polk	70	19	25	37	28	32	19	4	36	-
Sherman	3	-	1	1	-	4	-	-	-	-
Tillamook	50	9	13	25	11	25	3	6	17	-
Umatilla	78	12	36	44	22	43	5	5	69	-
Union	32	14	16	27	10	16	5	-	24	-
Wallowa	19	7	9	4	7	6	1	-	5	-
Wasco	36	13	14	21	11	24	5	2	25	-
Washington	344	94	109	126	102	158	42	10	178	2
Wheeler	4	-	2	-	1	1	-	-	-	-
Yamhill	83	23	32	38	26	49	8	6	44	1

- Quantity is zero.

* Includes the alcohol-linked disorders represented by ICD-9 codes 291.0-291.9, 303, 305.0, 357.5, 425.5, 535.3 and 571.0-571.3.

TABLE 6-35.
Causes Mentioned on the Death Certificate but Which Were Not the Underlying Cause of Death, by
Age and Sex, Oregon Residents, 1998

Age and Sex	Heart Disease	Malignant Neoplasms	Cerebrovascular Disease	Chronic Obstructive Pulmonary Disease	Pneumonia & Influenza	Diabetes	Alzheimer's Disease & Dementia	Alcoholism*	Hypertension	Acquired Immune Deficiency Syndrome
Both Sexes	3,876	878	1,503	1,916	1,234	1,935	492	287	2,233	13
< 1	29	2	5	2	6	1	1	-	1	-
1-4	7	-	-	-	-	-	-	-	1	-
5-14	2	1	-	1	1	-	-	-	-	-
15-24	11	3	-	3	2	1	-	4	-	-
25-34	15	2	4	1	6	3	-	11	1	-
35-44	55	11	11	12	19	16	1	31	24	5
45-54	130	25	28	44	32	83	1	50	58	3
55-64	266	57	79	183	98	216	4	53	166	3
65-74	734	147	259	500	216	461	22	73	405	1
75-84	1,357	333	570	790	432	707	181	52	799	1
85-94	1,094	257	474	352	366	400	235	12	680	-
95+	176	40	73	28	56	47	47	1	98	-
Males	1,895	516	670	1,095	634	996	165	237	871	10
< 1	16	1	4	1	4	-	-	-	-	-
1-4	5	-	-	-	-	-	-	-	-	-
5-14	2	1	-	1	1	-	-	-	-	-
15-24	6	3	-	1	-	-	-	4	-	-
25-34	9	2	2	-	4	3	-	11	1	-
35-44	35	9	7	8	13	10	-	28	13	5
45-54	84	18	16	31	18	51	-	40	40	2
55-64	158	35	43	103	50	126	3	46	93	2
65-74	406	88	140	296	132	267	11	55	208	-
75-84	694	208	272	452	229	359	80	43	334	1
85-94	444	137	171	192	168	169	65	9	174	-
95+	36	14	15	10	15	11	6	1	8	-
Females	1,981	362	833	821	600	939	327	50	1,362	3
< 1	13	1	1	1	2	1	1	-	1	-
1-4	2	-	-	-	-	-	-	-	1	-
5-14	-	-	-	-	-	-	-	-	-	-
15-24	5	-	-	2	2	1	-	-	-	-
25-34	6	-	2	1	2	-	-	-	-	-
35-44	20	2	4	4	6	6	1	3	11	-
45-54	46	7	12	13	14	32	1	10	18	1
55-64	108	22	36	80	48	90	1	7	73	1
65-74	328	59	119	204	84	194	11	18	197	1
75-84	663	125	298	338	203	348	101	9	465	-
85-94	650	120	303	160	198	231	170	3	506	-
95+	140	26	58	18	41	36	41	-	90	-

- Quantity is zero.

* Includes the alcohol-linked disorders represented by ICD-9 codes 291.0-291.9, 303, 305.0, 357.5, 425.5, 535.3 and 571.0-571.3.

TABLE 6-36.
Deaths Due to Firearms by Manner, Sex, Age, Race/Ethnicity, County of Residence,
and Weapon Type, Oregon Residents, 1998

Demographic Characteristics	Total	Unintentional Injuries			Suicide			Homicide ¹			Undetermined Manner		
		Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total	441	5	5	-	334	288	46	94	71	23	8	7	1
Age													
0-14	8	2	2	-	3	3	-	2	2	-	1	1	-
15-17	11	1	1	-	5	4	1	4	4	-	1	1	-
18-19	11	-	-	-	6	6	-	4	4	-	1	1	-
20-24	44	-	-	-	29	25	4	15	12	3	-	-	-
25-34	84	-	-	-	53	42	11	30	21	9	1	1	-
35-44	83	-	-	-	61	54	7	22	15	7	-	-	-
45-54	61	1	1	-	51	38	13	6	5	1	3	2	1
55-64	45	-	-	-	37	33	4	8	6	2	-	-	-
65-74	34	1	1	-	31	29	2	2	1	1	-	-	-
75-84	46	-	-	-	44	40	4	1	1	-	1	1	-
85+	14	-	-	-	14	14	-	-	-	-	-	-	-
Race/Ethnicity													
White	418	5	5	-	323	280	43	82	60	22	8	7	1
African American	14	-	-	-	4	4	-	10	9	1	-	-	-
Indian	7	-	-	-	5	3	2	2	2	-	-	-	-
Other	2	-	-	-	2	1	1	-	-	-	-	-	-
Hispanic ²	32	-	-	-	11	11	-	20	16	4	1	1	-
Selected Counties³													
Baker	6	-	-	-	4	4	-	1	-	1	1	1	-
Benton	5	-	-	-	5	5	-	-	-	-	-	-	-
Clackamas	27	-	-	-	22	17	5	5	4	1	-	-	-
Clatsop	10	-	-	-	9	6	3	1	-	1	-	-	-
Columbia	4	-	-	-	4	4	-	-	-	-	-	-	-
Coos	13	-	-	-	12	11	1	1	1	-	-	-	-
Crook	3	-	-	-	3	3	-	-	-	-	-	-	-
Curry	7	-	-	-	7	6	1	-	-	-	-	-	-
Deschutes	13	1	1	-	12	11	1	-	-	-	-	-	-
Douglas	18	-	-	-	14	10	4	3	2	1	1	1	-
Grant	1	-	-	-	1	1	-	-	-	-	-	-	-
Hood River	4	-	-	-	4	4	-	-	-	-	-	-	-
Jackson	27	-	-	-	24	21	3	3	3	-	-	-	-
Jefferson	3	-	-	-	2	2	-	1	1	-	-	-	-
Josephine	23	1	1	-	14	12	2	8	8	-	-	-	-
Klamath	11	-	-	-	8	7	1	3	2	1	-	-	-
Lane	39	-	-	-	27	22	5	11	8	3	1	1	-
Lincoln	14	-	-	-	12	11	1	2	1	1	-	-	-
Linn	13	2	2	-	8	8	-	2	2	-	1	1	-
Malheur	4	-	-	-	4	3	1	-	-	-	-	-	-
Marion	41	1	1	-	21	18	3	18	14	4	1	1	-
Multnomah	75	-	-	-	53	45	8	21	16	5	1	-	1
Polk	6	-	-	-	4	4	-	2	1	1	-	-	-
Sherman	1	-	-	-	1	1	-	-	-	-	-	-	-
Umatilla	11	-	-	-	8	7	1	2	2	-	1	1	-
Union	8	-	-	-	7	6	1	1	1	-	-	-	-
Wallowa	2	-	-	-	2	2	-	-	-	-	-	-	-
Wasco	5	-	-	-	3	3	-	1	-	1	1	1	-
Washington	35	-	-	-	28	25	3	7	4	3	-	-	-
Yamhill	12	-	-	-	11	9	2	1	1	-	-	-	-
Weapon Type													
Handgun	267	3	3	-	216	175	41	42	30	12	6	5	1
Shotgun	63	2	2	-	53	51	2	7	5	2	1	1	-
Rifle	70	-	-	-	61	58	3	8	7	1	1	1	-
Unspecified	41	-	-	-	4	4	-	37	29	8	-	-	-

¹ Includes legal intervention.² Hispanics may be of any race.³ Only counties whose residents died from gunshot wounds are shown.

TABLE 6-37.
Selected Causes of Death by City of Residence, Oregon, 1998

City of Residence	Population	Total Deaths	Rate*	Heart Disease	Cancer	Cerebrovascular Disease	Chronic Obstructive Pulmonary Disease	Unintentional Injuries	Pneumonia and Influenza	Diabetes	Alzheimer's Disease	Suicide
Oregon	3,267,550	29,346	898.1	7,276	7,007	2,636	1,638	1,337	1,010	870	806	569
Albany	38,925	382	981.4	100	92	42	16	18	11	11	12	4
Ashland	19,220	151	785.6	37	32	12	11	9	3	8	3	3
Astoria	10,090	111	1100.1	28	22	14	4	11	4	4	3	2
Beaverton	68,050	532	781.8	127	127	49	28	17	23	12	13	12
Bend	35,635	318	892.4	80	61	33	21	14	12	6	5	6
Canby	12,465	104	834.3	39	23	12	2	4	3	-	3	3
Central Point	11,255	134	1190.6	35	26	20	11	3	9	2	5	-
Coos Bay	15,615	250	1601.0	71	47	23	19	13	7	9	13	5
Corvallis	49,630	323	650.8	87	73	30	14	9	11	16	13	8
Dallas	12,530	152	1213.1	40	33	26	9	4	2	1	5	2
Eugene	133,460	1,240	929.1	254	287	96	72	71	48	39	45	26
Forest Grove	16,170	197	1218.3	62	36	15	19	12	4	2	5	1
Gladstone	11,745	95	808.9	21	23	4	4	7	4	4	5	-
Grants Pass	20,590	379	1840.7	111	81	44	22	9	13	10	10	7
Gresham	83,595	681	814.6	162	172	46	43	32	33	21	32	14
Hermiston	11,595	109	940.1	28	21	10	4	4	2	2	6	2
Hillsboro	65,110	345	529.9	91	63	36	16	14	19	11	6	6
Keizer	29,235	261	892.8	56	64	55	9	14	5	2	2	3
Klamath Falls	18,940	236	1246.0	45	55	20	21	7	6	11	11	6
LaGrande	12,795	148	1156.7	41	27	9	12	10	9	5	3	1
Lake Oswego	34,280	249	726.4	55	65	26	10	7	18	7	9	4
Lebanon	12,480	158	1266.0	43	34	17	9	3	2	1	7	2
McMinnville	24,265	232	956.1	46	55	19	13	13	10	12	6	4
Medford	58,895	734	1246.3	175	152	70	41	28	34	21	27	14
Milwaukie	20,220	550	2720.1	140	111	51	26	22	25	25	12	11
Newberg	17,355	173	996.8	44	29	17	3	6	5	5	6	4
Ontario	10,680	140	1310.9	32	21	13	5	9	7	5	11	2
Oregon City	22,560	250	1108.2	57	51	21	20	7	10	11	2	-
Pendleton	16,915	127	750.8	40	32	10	4	-	4	2	2	3
Portland	509,610	4,790	939.9	1,181	1,064	392	257	228	189	149	142	75
Redmond	12,435	134	1077.6	31	34	12	7	9	6	3	2	3
Roseberg	20,215	301	1489.0	92	67	23	22	6	9	9	12	5
Salem	126,635	1,393	1100.0	312	298	215	77	59	34	37	32	25
Springfield	51,700	519	1003.9	109	118	45	23	19	10	25	24	15
The Dalles	11,765	183	1555.5	44	29	23	12	4	11	6	4	2
Tigard	37,200	369	991.9	100	90	34	21	19	14	7	12	9
Troutdale	14,040	54	384.6	11	13	4	3	4	1	1	3	2
Tualatin	21,405	79	369.1	20	17	7	3	3	1	3	3	3
West Linn	21,405	106	495.2	28	24	5	3	5	9	2	3	2
Wilsonville	12,290	76	618.4	26	19	3	5	1	4	3	2	2
Woodburn	16,585	208	1254.1	57	42	26	8	10	8	3	8	3

- 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, 1998

Demographic Characteristics	Total	Boating	Recreation	Non-recreation	Bathtub	Fall into Water	Swimming Pool & Not Stated
Total	79	16	14	-	8	10	31
Sex							
Male	67	16	12	-	6	9	24
Female	12	-	2	-	2	1	7
Age							
<1	-	-	-	-	-	-	-
1-4	1	-	-	-	-	1	-
5-14	3	-	-	-	1	1	1
15-17	11	-	4	-	1	1	5
18-19	5	1	2	-	-	-	2
20-24	5	1	1	-	-	-	3
25-34	12	1	2	-	2	1	6
35-44	14	4	5	-	-	1	4
45-54	11	4	-	-	2	2	3
55-64	8	3	-	-	-	-	5
65-74	3	1	-	-	2	-	-
75+	6	1	-	-	-	3	2
County							
Clackamas	6	-	-	-	1	-	5
Clatsop	3	3	-	-	-	-	-
Coos	5	1	-	-	-	2	2
Curry	3	2	1	-	-	-	-
Deschutes	2	-	1	-	-	1	-
Douglas	5	1	2	-	-	-	2
Grant	1	-	-	-	-	-	1
Hood River	1	-	-	-	-	1	-
Jackson	1	-	-	-	-	-	1
Josephine	1	-	1	-	-	-	-
Klamath	1	-	-	-	-	-	1
Lake	1	-	-	-	1	-	-
Lane	11	2	3	-	-	-	6
Lincoln	5	1	1	-	1	1	1
Linn	3	1	1	-	-	-	1
Malheur	2	-	-	-	-	1	1
Marion	5	2	1	-	-	1	1
Multnomah	13	1	-	-	3	2	7
Polk	2	-	-	-	-	1	1
Sherman	2	1	1	-	-	-	-
Tillamook	1	-	-	-	-	-	1
Umatilla	1	-	1	-	-	-	-
Union	1	-	-	-	1	-	-
Wasco	1	1	-	-	-	-	-
Washington	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, 1998

Cause of Death	Total	Age Groups								
		0-17	1-17	13-19	< 1	1-4	5-9	10-14	15-17	18-19
Total	542	473	227	187	246	48	34	59	86	69
Total Natural Causes	329	319	82	36	237	27	16	24	15	10
Perinatal Conditions	79	79	1	-	78	1	-	-	-	-
Congenital Anomalies	90	90	11	2	79	5	2	2	2	-
SIDS	45	45	-	-	45	-	-	-	-	-
Cancer	28	27	26	14	1	7	4	7	8	1
Heart Disease	17	15	7	5	8	2	2	-	3	2
Cerebral Palsy	4	4	2	1	2	-	1	-	1	-
Cerebrovascular Disease	3	3	3	1	-	1	-	2	-	-
Meningococcal Disease	2	2	2	-	-	1	1	-	-	-
Pneumonia & Influenza	1	1	1	1	-	-	-	1	-	-
Other	60	53	29	12	24	10	6	12	1	7
Total External Causes	213	154	145	151	9	21	18	35	71	59
Unintentional Injuries	160	115	108	109	7	17	16	23	52	45
Motor Vehicle Crash	103	65	64	81	1	9	7	11	37	38
Drowning ¹	23	18	18	18	-	1	3	3	11	5
Suffocation	8	8	3	-	5	2	-	1	-	-
Fires	7	7	6	1	1	2	2	2	-	-
Gunshot Wound	3	3	3	2	-	-	1	1	1	-
Poisoning (Except Gas)	3	2	2	3	-	-	-	-	2	1
Aircraft Accident	2	1	1	1	-	-	1	-	-	1
Falls	1	1	1	1	-	-	-	-	1	-
Other	10	10	10	2	-	3	2	5	-	-
Suicide	26	18	18	25	-	-	-	8	10	8
Gunshot Wound	14	8	8	14	-	-	-	3	5	6
Hanging	10	9	9	9	-	-	-	5	4	1
Other	2	1	1	2	-	-	-	-	1	1
Homicide	21	16	15	15	1	2	2	3	8	5
Gunshot Wound	10	6	6	10	-	-	-	2	4	4
Cutting	3	3	3	2	-	-	1	-	2	-
Child Abuse/Neglect	2	2	1	-	1	1	-	-	-	-
Other	6	5	5	3	-	1	1	1	2	1
Undetermined Manner	6	5	4	2	1	2	-	1	1	1
Gunshot Wound	3	2	2	2	-	-	-	1	1	1
Other	3	3	2	-	1	2	-	-	-	-
Gunshot (Any manner)	30	19	19	28	-	-	1	7	11	11
Drug Overdose (Any manner) ²	3	2	2	3	-	-	-	-	2	1

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

² 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, 1998

Sex, Age, and Cause	Total		Hospital		Gov't Inst.		Nursing Home		Jail		Home		Other	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total	29,346	100.0	9,164	31.2	292	1.0	9,063	30.9	15	0.1	9,339	31.8	1,473	5.0
Sex														
Males	14,627	100.0	4,913	33.6	281	1.9	3,423	23.4	13	0.1	5,021	34.3	976	6.7
Females	14,719	100.0	4,251	28.9	11	0.1	5,640	38.3	2	0.0	4,318	29.3	497	3.4
Age Groups														
< 1	246	100.0	205	83.3	-	-	-	-	-	-	38	15.4	3	1.2
1-4	48	100.0	26	54.2	-	-	-	-	-	-	15	31.3	7	14.6
5-14	93	100.0	48	51.6	-	-	2	2.2	-	-	20	21.5	23	24.7
15-24	377	100.0	117	31.0	1	0.3	6	1.6	1	0.3	73	19.4	179	47.5
25-34	480	100.0	144	30.0	1	0.2	13	2.7	3	0.6	149	31.0	170	35.4
35-44	1,052	100.0	355	33.7	5	0.5	48	4.6	4	0.4	389	37.0	251	23.9
45-54	1,688	100.0	620	36.7	25	1.5	128	7.6	5	0.3	741	43.9	169	10.0
55-64	2,663	100.0	1,064	40.0	41	1.5	253	9.5	2	0.1	1,160	43.6	143	5.4
65-74	5,367	100.0	1,956	36.4	96	1.8	998	18.6	-	-	2,120	39.5	197	3.7
75-84	9,061	100.0	2,839	31.3	107	1.2	3,023	33.4	-	-	2,873	31.7	219	2.4
85-94	6,937	100.0	1,621	23.4	13	0.2	3,667	52.9	-	-	1,533	22.1	103	1.5
95+	1,334	100.0	169	12.7	3	0.2	925	69.3	-	-	228	17.1	9	0.7
Cause														
Heart Disease	7,276	100.0	2,704	37.2	66	0.9	2,067	28.4	1	0.0	2,194	30.2	244	3.4
Cancer	7,007	100.0	1,469	21.0	83	1.2	1,560	22.3	1	0.0	3,700	52.8	194	2.8
Cerebrovascular Disease	2,636	100.0	858	32.5	13	0.5	1,392	52.8	-	-	352	13.4	21	0.8
COPD	1,337	100.0	442	33.1	5	0.4	119	8.9	3	0.2	200	15.0	568	42.5
Unintentional Injuries	1,638	100.0	593	36.2	22	1.3	475	29.0	-	-	523	31.9	25	1.5
Pneumonia & Influenza	1,010	100.0	412	40.8	18	1.8	496	49.1	-	-	71	7.0	13	1.3
Diabetes Mellitus	870	100.0	267	30.7	3	0.3	316	36.3	1	0.1	266	30.6	17	2.0
Alzheimer's Disease	806	100.0	36	4.5	5	0.6	638	79.2	-	-	121	15.0	6	0.7
Suicide	569	100.0	74	13.0	3	0.5	3	0.5	6	1.1	317	55.7	166	29.2
Other Artery Disease	394	100.0	249	63.2	3	0.8	81	20.6	-	-	59	15.0	2	0.5
Alcoholic Diseases ¹	366	100.0	151	41.3	8	2.2	51	13.9	1	0.3	139	38.0	16	4.4
Arteriosclerosis	228	100.0	54	23.7	1	0.4	89	39.0	-	-	80	35.1	4	1.8
Hypertension	201	100.0	40	19.9	-	-	86	42.8	-	-	74	36.8	1	0.5
Congenital Anomalies	154	100.0	103	66.9	1	0.6	18	11.7	-	-	31	20.1	1	0.6
Homicide ²	142	100.0	28	19.7	1	0.7	-	-	-	-	41	28.9	72	50.7
Perinatal Conditions	79	100.0	77	97.5	-	-	-	-	-	-	2	2.5	-	-
AIDS	71	100.0	28	39.4	1	1.4	15	21.1	-	-	27	38.0	-	-
SIDS	45	100.0	26	57.8	-	-	-	-	-	-	18	40.0	1	2.2

1. Includes the alcohol-linked disorders represented by ICD-9 codes 291.0-291.9, 303, 305.0, 357.5, 425.5, 535.3 and 571.0-571.3.

2. Homicide includes legal intervention.

TABLE 6-41.
Death Rates for Selected Leading Causes of Mortality,
United States, 1984-1998

Year	Total	Heart Disease	Cancer	Cerebrovascular Disease	Chronic Obstructive Pulmonary Disease ¹	Unintentional Injuries	Pneumonia and Influenza	Suicide	Diabetes
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
1998	864.2	267.7	200.2	56.1	41.4	36.2	34.0	11.3	23.9

Year	Arteriosclerosis	Alzheimer's Disease ²	Alcoholism ³	Homicide ⁴	Hypertension	Acquired Immune Deficiency Syndrome	Parkinson's Disease	Congenital Anomalies	Amyotrophic Lateral Sclerosis
1984	10.3	2.9	7.3	8.4	3.3	-	2.1	5.5	1.3
1985	10.0	3.9	7.3	8.3	3.2	-	2.2	5.4	1.4
1986	9.4	4.5	7.1	9.0	3.3	-	2.3	5.2	1.4
1987	9.2	5.4	7.2	8.7	3.3	5.5	2.6	5.1	1.4
1988	9.0	6.2	7.6	9.0	3.4	6.8	2.6	5.2	1.4
1989	7.8	6.6	7.9	9.2	3.5	8.9	2.8	5.2	1.4
1990	7.3	7.1	7.8	10.0	3.7	10.1	2.9	5.3	1.4
1991	6.9	7.4	7.5	10.5	3.8	11.7	3.0	5.0	1.5
1992	6.6	7.7	7.5	10.0	4.0	13.2	3.0	4.9	1.5
1993	6.7	9.1	7.5	10.1	4.4	14.5	3.5	4.8	1.4
1994	6.6	10.4	7.6	9.6	4.5	16.2	3.8	4.6	1.5
1995	6.4	11.8	7.6	8.7	4.7	16.4	4.1	4.6	1.5
1996	6.3	12.5	7.3	7.9	4.9	11.7	4.5	4.5	1.6
1997	6.0	13.5	7.2	7.4	5.1	6.2	4.6	4.3	1.6
1998	5.7	14.2	7.1	6.8	5.3	5.0	4.9	4.4	1.6

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

1. COPD consists principally of bronchitis, emphysema, asthma, and chronic airway obstruction.

2. Including Alzheimer's dementia.

3. Includes the alcohol-linked disorders represented by ICD-9 codes 291.0-291.9, 303, 305.0, 357.5, 425.5, 535.3 and 571.0-571.3.

4. Including legal intervention.

TABLE 6-42.
Age-adjusted Death Rates for Residents of Oregon and the United States for the
Leading Causes of Death, 1998

Cause	Age-adjusted Rate ¹		Percent Difference	State Rank ²	ICD-9 Codes ³
	U.S.	Oregon			
All Causes	471.2	451.0	-4.3	29	001-999
Heart Disease	126.4	96.1	-24.0	47	390-398, 402, 404-425.4, 425.6-429.9
Malignant Neoplasms	123.5	123.4	-0.1	29	140-208
Cerebrovascular Disease	23.2	27.3	17.7	9	430-438
COPD	21.2	23.7	11.8	15	490-496
Unintended Injuries	30.1	34.9	15.9	21	800-949
Pneumonia and Influenza	13.2	10.5	-20.5	47	480-487
Diabetes Mellitus	13.6	13.7	0.7	20	250
Alzheimer's Disease	4.8	7.4	54.2	3	290.1, 331.0
Suicide	10.4	14.9	43.3	10	950-959
Other and Diseases of the Arteries	5.2	5.1	-1.9	27	441-448
Alcoholism and Allied Conditions	6.0	8.2	36.7	9	291, 303, 305.0, 357.5, 425.5, 535.3, 571-571.3
Parkinson's Disease	1.8	2.8	55.6	2	332
Arteriosclerosis	1.9	2.4	26.3	9	440
Hypertension with/without Renal Disease	2.4	2.2	-8.3	21	401, 403
Nephritis and Nephrosis	4.4	2.4	-45.5	46	580-586
Septicemia	4.4	2.9	-34.1	35	038
Congenital Anomalies	4.1	4.2	2.4	28	740-759
Homicide and Legal Intervention	7.2	4.7	-34.7	31	960-979
Perinatal Conditions	5.2	2.6	-50.0	50	760-779
Hernia and Intestinal Obstruction	1.0	0.9	-10.0	39	550-553, 560
Amyotrophic Lateral Sclerosis	1.1	1.5	36.4	3	335.2

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, 1998

Cause	Lowest		Highest	
	State	Rate	State	Rate
All Causes	Hawaii	369.5	District of Columbia	680.1
Heart Disease	Utah	87.3	Mississippi	181.2
Malignant Neoplasms	Utah	93.5	District of Columbia	154.3
Cerebrovascular Disease	New York	16.3	South Carolina	34.6
COPD	Hawaii	10.7	Nevada	31.9
Unintended Injuries	Massachusetts	15.5	Mississippi	54.3
Pneumonia and Influenza	Alaska	8.4	California	17.4
Diabetes Mellitis	Nevada	8.6	Louisiana	25.8
Alzheimer's Disease	New York	2.0	Washington	8.5
Suicide	New Jersey	6.4	Alaska	22.1
Other and Diseases of the Arteries	Utah	3.7	South Carolina	6.9
Alcoholism and Allied Conditions	Pennsylvania	2.8	New Mexico	14.5
Parkinson's Disease	New York ¹	1.0	Wyoming	3.4
Arteriosclerosis	Hawaii	0.6	Colorado	4.0
Hypertension with/without Renal Disease	South Dakota	0.6	South Carolina	4.6
Nephritis and Nephrosis	Washington	1.9	Louisiana	7.6
Septicemia	California	1.0	District of Columbia	12.5
Congenital Anomalies	Massachusetts	2.9	North Dakota ²	5.9
Homicide and Legal Intervention	South Dakota ³	1.4	District of Columbia	46.4
Perinatal Conditions	Alaska	2.5	District of Columbia	10.2
Hernia and Intestinal Obstruction	North Dakota	0.5	Wyoming	1.7
Amyotrophic Lateral Sclerosis	Hawaii	0.4	South Dakota	2.0

1. New York tied with Hawaii.

2. North Dakota tied with Montana.

3. South Dakota tied with Vermont.

Fetal and Infant Mortality

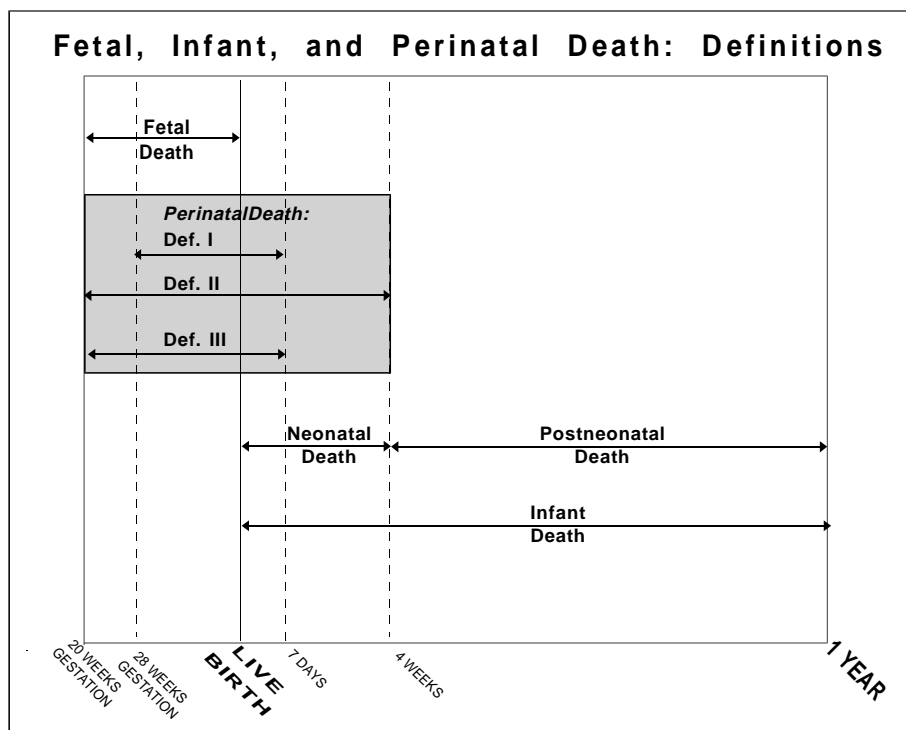
INTRODUCTION

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.

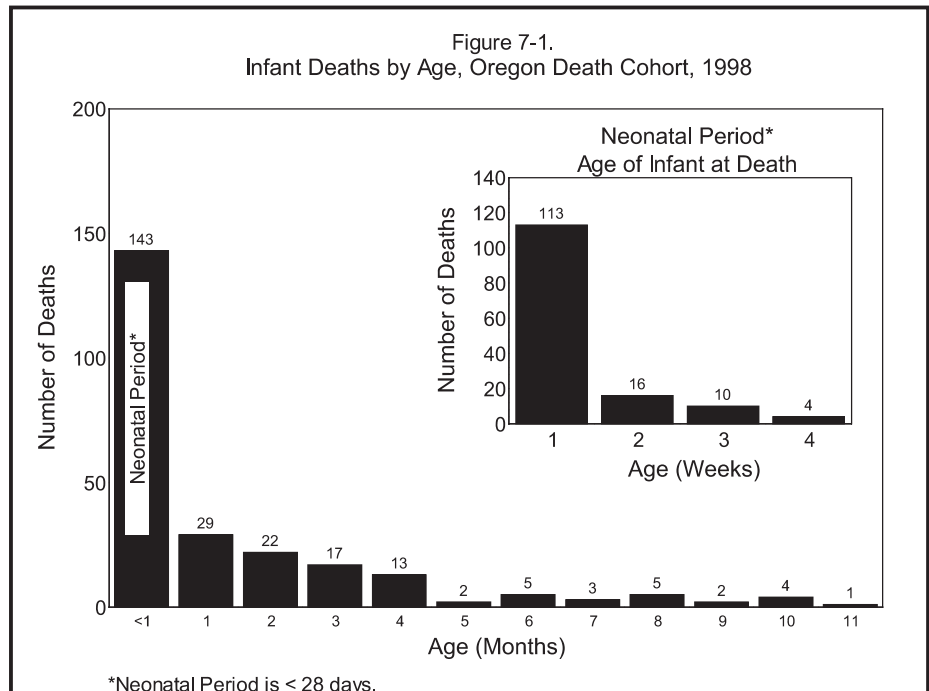


- **Fetal deaths** are those that occur after 20 weeks gestation in which the developing fetus dies either in utero or upon delivery. They are classified as “early” (20-27 weeks gestation) or “late” (28 weeks gestation or more), and Oregon public health and safety laws require that they be reported.¹
- **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 1998.
- 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 1997, and died in either 1997 or 1998.



USE OF THE 1998 DEATH COHORT

This report uses data from the 1998 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.

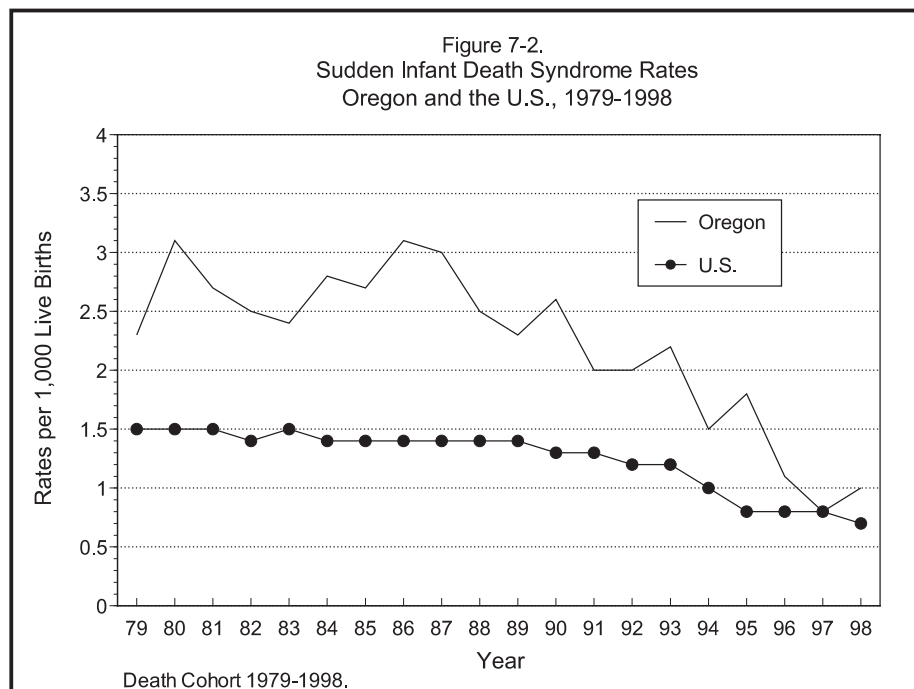
Infant characteristics at the time of death are derived from death certificates. The characteristics of most interest are age at death, county of residence at death and underlying cause of death. Total age-specific and cause-specific mortality ratios are computed by dividing the number of infant deaths 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 1998:

- 246 infants under age one died.
- The infant death rate was 5.4 deaths per 1,000 births, a decrease of 7.0% from the previous year. The decrease was not statistically significant.
- Oregon’s 1998 infant death rate is 25 percent lower than the 1998 U.S. rate of 7.2 per 1,000 births.² [Table 5-1].
- As in previous years, most infants who died during 1998 were under 28 days old. [Figure 7-1]. Almost four out of five (79%) of these neonatal deaths occurred within the first week of life.

***During 1998,
246 infants under
age one died.***



There were 45 SIDS deaths in 1998

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 SIDS has been the leading cause of death among Oregon infants. [Figure 7-2].

The number of SIDS deaths rose to 45 in 1998 from 36 deaths in 1997. In 1998, SIDS accounted for 18.3 percent of the state's total infant deaths and 41.7 percent of all postneonatal deaths. The 1998 Oregon SIDS death rate was 1.0 deaths per 1,000 live births, a 25 percent increase from the 1997 rate of 0.8. The SIDS rate for 1998 is among the lowest Oregon has recorded since the Health Division began tracking SIDS rates in 1979. [Figure 7-2].

After matching the national rate in 1997, the 1998 rate of SIDS deaths in Oregon was 43 percent higher than the U.S. rate in 1998 (0.7 per 1,000 live births). [Figure 7-2]. Nationally, SIDS was responsible for 2,882 deaths in 1998 making it the third leading cause of infant mortality.²

NEONATAL DEATH

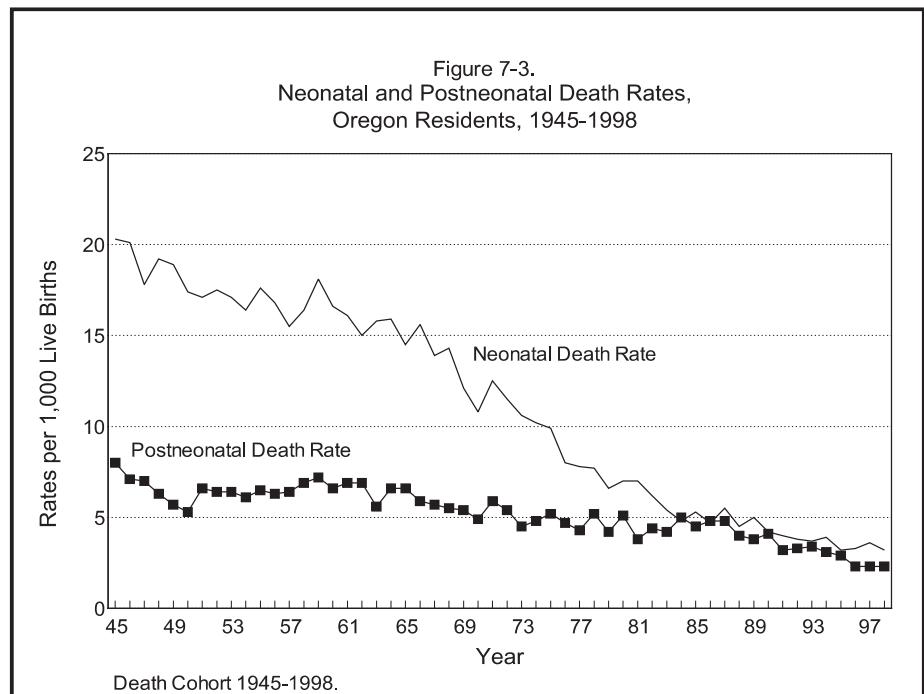
Neonatal and postneonatal death rates have been declining since 1945, when the neonatal death rate was 20.0 per 1,000 births and the postneonatal death rate was 8.0 per 1,000 births. In 1998, the neonatal death rate was 3.2 per 1,000 births and the postneonatal death rate was 2.3 per 1,000 births. [Figure 7-3].

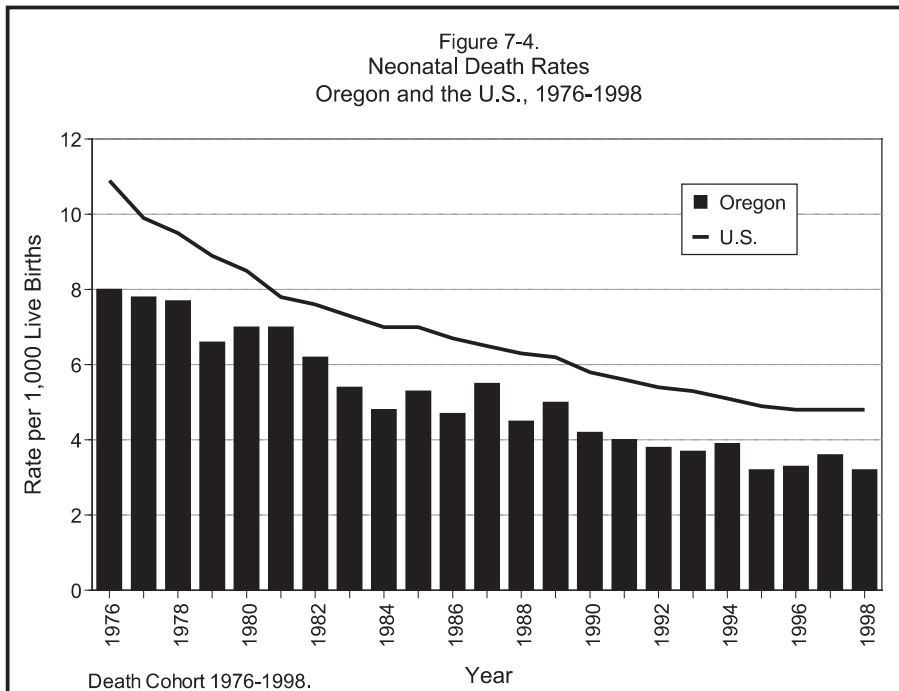
In 1998, 143 infants died during the neonatal period, a 8.9 percent decrease from the 157 deaths that occurred in 1997. Oregon's neonatal death rate has consistently been below that of the U.S. [Figure 7-4]. The 1998 rate matches Oregon's record low of 3.2 in 1995 and is 33 percent lower than the national rate of 4.8. [Tables

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
1998	8	5.6	17.7

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

Figure 7-3.
 Neonatal and Postneonatal Death Rates,
 Oregon Residents, 1945-1998





5-1 and 5-2]. As in previous years congenital anomalies were responsible for more neonatal deaths (37%) than any other cause. [Table 7-2]. During the period from 1989 to 1998 the number of neonatal deaths due to Respiratory Distress Syndrome (RDS) decreased from 32 in 1989 to 8 in 1998. [Table 7-2].

POSTNEONATAL DEATH

In 1998, 103 infants died during the postneonatal period, representing 41.9 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 1998, the state rate was 4 percent lower than that of the U.S. (2.4 per 1,000 live births).

FETAL DEATH

In 1998, there were 208 Oregon resident fetal deaths, representing a 13.2 percent decrease in the fetal death ratio from the preceding year (4.6 in 1998 versus 5.3 in 1997) (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].

AGE	YEAR				
	1998	1997	1996	1995	1994
TOTAL	4.6	5.3	5.8	5.5	5.4
15-44	4.5	5.3	5.7	5.5	5.3
15-19	5.2	5.8	6.7	6.4	6.7
20-24	4.6	6.0	5.9	5.4	4.5
25-29	4.3	4.0	4.3	4.8	4.4
30-34	4.6	4.4	5.7	4.8	4.5
35-39	3.7	7.3	6.9	7.1	9.2
40-44	7.4	10.6	8.3	13.0	11.6

Cause of Death

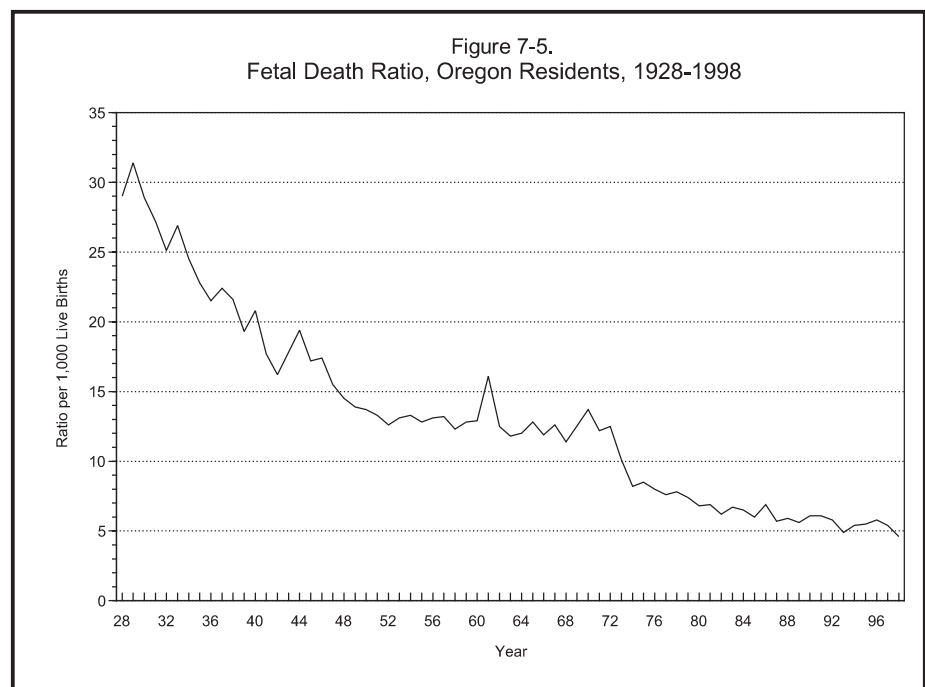
Causes of Oregon's 208 fetal deaths in 1998 are shown in Table 7-4. The most frequently reported cause of fetal death in 1998 (n=106) was the residual category "other and ill defined." The second leading cause, "complications of the placenta, cord and membranes," totaled 53 deaths. Congenital anomalies with 17 deaths was third. These three causes of death represented 85 percent of all 1998 Oregon fetal deaths. There was little change in the distribution of deaths by cause compared to previous years.

USE OF THE 1997 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 1997. 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 1997 data in the 1998 report. For illustration, of the 234 deaths to infants born in 1997, 201 died in calendar year 1997 and 33 died in the calendar year 1998; only the 33 infants who died during 1998 are represented in the 1998 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 1997 may have a



matched postneonatal death that occurred up to one year later, at the end of December 1998.

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.³ 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 7-2 for definitions). Perinatal death statistics are included within tables 7-13 through 7-16 to assist in data comparability.

NEONATAL DEATHS: 1995-1997 BIRTH COHORT

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 1995-1997 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 rate for infants weighing less than 500 grams was 933.3 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].

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

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.

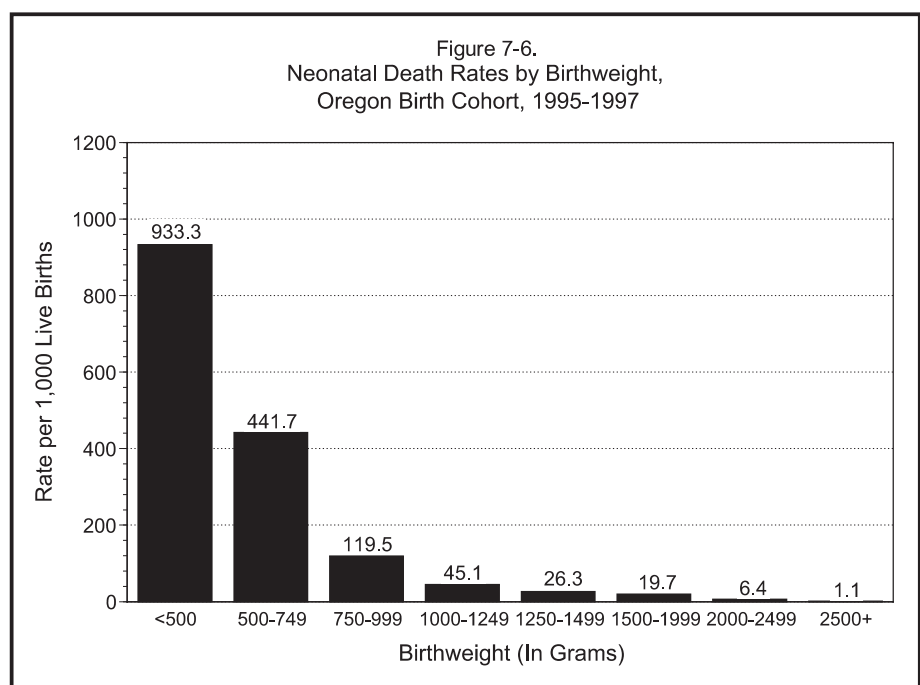
Maternal Characteristics

Though most women reported being married at the time of birth, the neonatal death rate was statistically significantly higher for unmarried women (4.4 versus 2.9 per 1,000). [Table 7-18]. Women without a high school diploma or GED had a statistically significantly higher neonatal death rate than women with some college (4.6 versus 2.2). [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 (4.9 vs. 3.1 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 (3.1 versus 22.6 per 1,000). Among women who received prenatal care, those who began care in the first or second trimester displayed higher rates (3.1 and 3.4 per 1,000 births, respectively), than those receiving care beginning in the third trimester (2.9 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 3.0 per 1,000). Three percent (3.0%) of the mothers whose infants died during the neonatal period reported using alcohol during their pregnancy. Women who reported using alcohol during pregnancy had a higher neonatal death rate than women who reported no alcohol use during pregnancy (4.7 versus 3.1 per 1,000). The difference was not statistically significant [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: 1995-1997 BIRTH COHORT

Higher postneonatal death rates were found among the children of mothers who were unwed, under age 20, received no prenatal care, or used tobacco or alcohol during pregnancy. The children of African Americans also had higher rates of postneonatal mortality. These higher rates were all statistically significant. Mother's level of education did not make a statistically significant difference in postneonatal mortality rates. [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 432.333 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 Murphy SL. Deaths: Final Data for 1998. National Vital Statistics Reports; vol 48 no 11, supp. Hyattsville, Maryland: National Center for Health Statistics. 2000.
- 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, 1998

County of Residence	Total Infant Deaths ¹	Infant Death Rate ²	Neonatal Deaths ³ (Age < 28 Days)				Neonatal Rate ²	Post-Neonatal Deaths ⁴	Post-Neonatal Rate ²
			Total Neonatal	< 1 Day	1-6 Days	7-27 Days			
Total	246	5.4	143	87	26	30	3.2	103	2.3
Baker	-	-	-	-	-	-	-	-	-
Benton	4	5.0	3	2	1	-	3.7	1	1.2
Clackamas	23	5.5	15	9	3	3	3.6	8	1.9
Clatsop	1	2.5	-	-	-	-	-	1	2.5
Columbia	2	3.7	2	1	1	-	3.7	-	-
Coos	2	3.2	1	1	-	-	1.6	1	1.6
Crook	1	4.3	1	1	-	-	4.3	-	-
Curry	2	11.8	-	-	-	-	-	2	11.8
Deschutes	9	6.6	7	-	3	4	5.1	2	1.5
Douglas	9	7.9	5	5	-	-	4.4	4	3.5
Gilliam	-	-	-	-	-	-	-	-	-
Grant	1	11.4	1	-	-	1	11.4	-	-
Harney	1	10.5	1	-	-	1	10.5	-	-
Hood River	1	3.5	-	-	-	-	-	1	3.5
Jackson	13	6.1	8	7	-	1	3.8	5	2.4
Jefferson	2	6.6	2	2	-	-	6.6	-	-
Josephine	9	11.0	6	4	1	1	7.4	3	3.7
Klamath	7	8.2	3	-	-	3	3.5	4	4.7
Lake	-	-	-	-	-	-	-	-	-
Lane	24	6.4	17	10	6	1	4.5	7	1.9
Lincoln	5	11.8	3	1	-	2	7.1	2	4.7
Linn	6	4.0	4	3	1	-	2.7	2	1.3
Malheur	7	13.1	3	2	-	1	5.6	4	7.5
Marion	19	4.2	9	4	1	4	2.0	10	2.2
Morrow	-	-	-	-	-	-	-	-	-
Multnomah	42	4.5	22	16	4	2	2.4	20	2.1
Polk	1	1.4	-	-	-	-	-	1	1.4
Sherman	-	-	-	-	-	-	-	-	-
Tillamook	2	8.5	1	-	1	-	4.3	1	4.3
Umatilla	8	7.8	4	3	1	-	3.9	4	3.9
Union	-	-	-	-	-	-	-	-	-
Wallowa	1	17.5	1	1	-	-	17.5	-	-
Wasco	2	6.4	2	1	-	1	6.4	-	-
Washington	33	4.8	18	11	3	4	2.6	15	2.2
Wheeler	-	-	-	-	-	-	-	-	-
Yamhill	9	7.8	4	3	-	1	3.4	5	4.3

- 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.

WARNING: Rates based on fewer than five events are unreliable.

TABLE 7-2. Infant Deaths by Cause and Age at Death, Oregon Residents, Death Cohort 1998

Cause of Death	Age Groups						All Neonates	Post-Neonates
	Total Deaths	Under 1 day	1-6 Days	7-27 Days	All Neonates	Post-Neonates		
Total	246	87	26	30	143	103		
Rate	5.4	1.9	0.6	0.7	3.2	2.3		
Certain conditions of mortality in early infancy	78	52	12	10	74	4		
Conditions of placenta and cord	10	7	3	-	10	-		
Immaturity, unqualified	25	22	-	2	24	1		
Birth trauma without mention of cause	3	1	2	-	3	-		
Anoxic and hypoxic conditions	3	-	-	2	2	1		
Respiratory distress syndrome	8	4	2	2	8	-		
Other respiratory conditions	9	6	1	1	8	1		
Other complications of pregnancy and delivery	8	8	-	-	8	-		
All other	12	4	4	3	11	1		
Other diseases	159	34	14	19	67	92		
Congenital anomalies	79	31	11	11	53	26		
Diseases of the nervous system	5	-	-	-	-	5		
Respiratory diseases	3	1	-	-	1	2		
Sudden Infant Death Syndrome	45	-	-	2	2	43		
All other diseases	27	2	3	6	11	16		
Violent and accidental causes	9	1	-	1	2	7		
Motor vehicle	1	-	-	-	-	1		
Other unintentional causes	6	-	-	1	1	5		
Homicide	1	-	-	-	-	1		
Other external causes	1	1	-	-	1	-		

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, 1998

County of Residence	Total	Age of Mother							N.S.
		15-19	20-24	25-29	30-34	35-39	40-44	45+	
Total	208	29	54	55	43	17	7	1	2
Ratio to Births ¹	4.6	5.2	4.6	4.3	4.6	3.7	7.4	21.7	166.7
Baker	3	-	1	-	2	-	-	-	-
Benton	4	-	-	3	-	-	1	-	-
Clackamas	13	2	3	5	1	1	-	1	-
Clatsop	1	-	-	-	-	1	-	-	-
Columbia	3	1	-	1	1	-	-	-	-
Coos	1	-	-	-	1	-	-	-	-
Crook	2	1	-	-	1	-	-	-	-
Curry	-	-	-	-	-	-	-	-	-
Deschutes	11	1	-	5	3	1	1	-	-
Douglas	1	-	1	-	-	-	-	-	-
Gilliam	-	-	-	-	-	-	-	-	-
Grant	-	-	-	-	-	-	-	-	-
Harney	-	-	-	-	-	-	-	-	-
Hood River	-	-	-	-	-	-	-	-	-
Jackson	13	1	1	7	3	-	1	-	-
Jefferson	3	-	1	1	1	-	-	-	-
Josephine	5	1	2	1	-	1	-	-	-
Klamath	3	1	1	-	1	-	-	-	-
Lake	-	-	-	-	-	-	-	-	-
Lane	19	1	10	4	3	1	-	-	-
Lincoln	7	1	1	3	2	-	-	-	-
Linn	10	1	3	2	2	1	1	-	-
Malheur	2	1	1	-	-	-	-	-	-
Marion	31	5	9	6	7	3	-	-	1
Morrow	-	-	-	-	-	-	-	-	-
Multnomah	48	5	10	14	10	6	2	-	1
Polk	3	1	1	1	-	-	-	-	-
Sherman	-	-	-	-	-	-	-	-	-
Tillamook	-	-	-	-	-	-	-	-	-
Umatilla	3	-	2	1	-	-	-	-	-
Union	3	-	2	-	-	1	-	-	-
Wallowa	-	-	-	-	-	-	-	-	-
Wasco	1	-	1	-	-	-	-	-	-
Washington	15	4	4	1	5	-	1	-	-
Wheeler	-	-	-	-	-	-	-	-	-
Yamhill	3	2	-	-	-	1	-	-	-

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

1 Ratios per 1,000 live births.

TABLE 7-4. Fetal Deaths by Weeks of Gestation and Cause of Death, Oregon, 1998

Cause of Death	Total	Weeks of Gestation									
		<20	20-23	24-27	28-31	32-35	36	37-39	40	41+	
Total	208	3	42	27	42	23	6	39	12	14	
Congenital anomalies	17	1	5	3	5	-	-	2	-	1	
Maternal condition which may be unrelated	7	-	-	1	-	4	1	-	-	1	
Maternal complications of pregnancy	10	-	5	2	3	-	-	-	-	-	
Complications of placenta, cord, and membranes	53	-	9	3	11	6	3	11	3	7	
Other complications of labor and delivery	2	1	-	-	-	-	-	-	1	-	
Slow fetal growth and malnutrition	-	-	-	-	-	-	-	-	-	-	
Short gestation and low birth weight	7	-	6	1	-	-	-	-	-	-	
Long gestation and high birthweight	-	-	-	-	-	-	-	-	-	-	
Birth trauma	-	-	-	-	-	-	-	-	-	-	
Intrauterine hypoxia and birth asphyxia	1	-	-	-	-	-	-	1	-	-	
Respiratory distress syndrome	-	-	-	-	-	-	-	-	-	-	
Other respiratory	1	-	-	-	-	-	-	-	1	-	
Perinatal infections	2	-	-	-	1	-	-	1	-	-	
Fetal and neonatal hemorrhage	-	-	-	-	-	-	-	-	-	-	
Hemolytic disease	-	-	-	-	-	-	-	-	-	-	
Other perinatal jaundice	-	-	-	-	-	-	-	-	-	-	
Endocrine or metabolic disturbances	-	-	-	-	-	-	-	-	-	-	
Hematological disorders	-	-	-	-	-	-	-	-	-	-	
Digestive disorders	-	-	-	-	-	-	-	-	-	-	
Integument & temperature regulation	2	-	1	1	-	-	-	-	-	-	
Other & ill-defined	106	1	16	16	22	13	2	24	7	5	

- 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, 1998

Age of Mother	Total	Weeks of Gestation								
		<20	20-23	24-27	28-31	32-35	36	37-39	40	41+
Total	208	3	42	27	42	23	6	39	12	14
15-19	29	1	8	5	5	2	1	4	2	1
20-24	54	-	6	6	10	7	-	15	4	6
25-29	55	1	15	7	11	9	1	5	4	2
30-34	43	-	7	4	12	4	3	11	-	2
35-39	17	-	4	2	3	1	1	4	1	1
40-44	7	1	1	2	-	-	-	-	1	2
45+	1	-	-	-	1	-	-	-	-	-
N.S.	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.

TABLE 7-6.
Births by Weeks of Gestation and Weight, Oregon Residents, 1997

Birthweight (In Grams)	Total	Weeks of Gestation								
		20-23	24-27	28-31	32-35	36	37-39	40	41+	N.S.
Total	43,765	60	142	297	1,599	1,267	16,177	10,725	13,451	47
349 and less	13	8	-	-	-	-	-	-	-	5
350-499	27	18	6	3	-	-	-	-	-	-
499 and less	40	26	6	3	-	-	-	-	-	5
500-749	86	24	47	12	2	-	-	-	-	1
750-999	73	2	41	23	5	-	1	-	-	1
1000-1249	83	-	18	40	21	1	1	1	1	-
1250-1499	109	2	5	46	46	2	5	2	1	-
1500-1999	470	-	9	63	254	37	79	10	14	4
2000-2499	1,546	2	7	24	439	236	595	124	117	2
<2500	2,407	56	133	211	767	276	681	137	133	13
2500-2999	5,952	-	1	19	361	433	3,046	1,018	1,067	7
3000-3499	15,620	-	6	38	284	343	6,654	3,903	4,380	12
3500-3999	14,190	4	1	19	139	156	4,415	4,094	5,353	9
4000-4499	4,727	-	1	9	44	52	1,181	1,319	2,117	4
4500+	866	-	-	1	4	7	200	253	401	-
Unknown	3	-	-	-	-	-	-	1	-	2

- 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 7-7.
Fetal Deaths by Weeks of Gestation and Weight,
Oregon Residents, 1997**

(In Grams)	Total	Weeks of Gestation									N.S.
		20-23	24-27	28-31	32-35	36	37-39	40	41+		
Total	234	45	40	31	37	12	44	13	12	-	
349 and less	26	16	8	2	-	-	-	-	-	-	
350-499	30	18	9	2	1	-	-	-	-	-	
<500	56	34	17	4	1	-	-	-	-	-	
500-749	32	7	15	6	4	-	-	-	-	-	
750-999	15	1	7	6	-	-	-	1	-	-	
1000-1249	12	1	1	6	2	1	1	-	-	-	
1250-1499	10	-	-	3	5	1	1	-	-	-	
1500-1999	30	-	-	5	14	2	8	-	1	-	
2000-2499	23	-	-	1	7	5	10	-	-	-	
<2500	178	43	40	31	33	9	20	1	1	-	
2500-2999	16	-	-	-	2	2	9	2	1	-	
3000-3499	23	-	-	-	1	1	10	8	3	-	
3500-3999	8	-	-	-	1	-	3	-	4	-	
4000-4499	2	-	-	-	-	-	-	-	2	-	
4500+	5	-	-	-	-	-	2	2	1	-	
Unknown	2	2	-	-	-	-	-	-	-	-	

- 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 1997**

Birthweight (In Grams)	Total	Weeks of Gestation									N.S.
		< 20	20-23	24-27	28-31	32-35	36	37-39	40	41+	
Total	130	5	46	18	12	12	6	18	5	8	-
000-349	13	5	8	-	-	-	-	-	-	-	-
350-499	24	-	18	3	3	-	-	-	-	-	-
499 & less	37	5	26	3	3	-	-	-	-	-	-
500-749	28	-	18	10	-	-	-	-	-	-	-
750-999	7	-	2	3	2	-	-	-	-	-	-
1000-1249	5	-	-	2	3	-	-	-	-	-	-
1250-1499	2	-	-	-	1	1	-	-	-	-	-
1500-1999	10	-	-	-	3	5	2	-	-	-	-
2000-2499	8	-	-	-	-	2	1	5	-	-	-
<2500	97	5	46	18	12	8	3	5	-	-	-
2500-2999	12	-	-	-	-	3	2	5	-	2	-
3000-3499	9	-	-	-	-	-	-	3	3	3	-
3500-3999	9	-	-	-	-	1	-	3	1	3	-
4000-4499	3	-	-	-	-	-	-	2	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.

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, 1997

Birthweight (In Grams)	Total	Weeks of Gestation									
		< 20	20-23	24-27	28-31	32-35	36	37-39	40	41+	N.S.
Total	28	-	2	5	1	2	3	5	-	10	-
000-349	-	-	-	-	-	-	-	-	-	-	-
350-499	1	-	-	1	-	-	-	-	-	-	-
499 & less	1	-	-	1	-	-	-	-	-	-	-
500-749	4	-	1	3	-	-	-	-	-	-	-
750-999	3	-	1	1	1	-	-	-	-	-	-
1000-1499	-	-	-	-	-	-	-	-	-	-	-
1500-1999	3	-	-	-	-	1	1	-	-	1	-
2000-2499	2	-	-	-	-	1	1	-	-	-	-
<2500	13	-	2	5	1	2	2	-	-	1	-
2500-2999	4	-	-	-	-	-	-	3	-	1	-
3000-3499	4	-	-	-	-	-	-	1	-	3	-
3500-3999	7	-	-	-	-	-	1	1	-	5	-

- 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, 1997

Birthweight (In Grams)	Total	Weeks of Gestation								
		20-23	24-27	28-31	32-35	36	37-39	40	41+	N.S.
Total	81	-	5	3	5	4	33	13	18	-
000-349	-	-	-	-	-	-	-	-	-	-
350-499	-	-	-	-	-	-	-	-	-	-
<500	-	-	-	-	-	-	-	-	-	-
500-749	5	-	4	1	-	-	-	-	-	-
750-999	-	-	-	-	-	-	-	-	-	-
1000-1249	4	-	1	2	-	-	1	-	-	-
1250-1499	-	-	-	-	-	-	-	-	-	-
1500-1999	1	-	-	-	1	-	-	-	-	-
2000-2499	12	-	-	-	2	1	8	1	-	-
<2500	22	-	5	3	3	1	9	1	-	-
2500-2999	15	-	-	-	2	3	5	4	1	-
3000-3499	24	-	-	-	-	-	13	3	8	-
3500-3999	11	-	-	-	-	-	3	4	4	-
4000-4499	7	-	-	-	-	-	2	1	4	-
4500+	2	-	-	-	-	-	1	-	1	-

**TABLE 7-11.
Neonatal Deaths by Birthweight,
Oregon Residents, Birth Cohort 1997**

Birthweight (In Grams)	Deaths	Rate
Total	153	3.5
000-349	13	1000.0
350-499	25	925.9
<500	38	950.0
500-749	31	360.5
750-999	9	123.3
1000-1249	5	60.2
1250-1499	2	18.3
1500-1999	12	25.5
2000-2499	10	6.5
<2500	107	44.5
2500-2999	16	2.7
3000-3499	13	0.8
3500-3999	14	1.0
4000-4499	3	0.6
4500+	-	-
2500+	46	1.1
Unknown	-	-

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 1995-97

Birthweight (In Grams)	Deaths	Rate
Total	431	3.3
000-349	44	1000.0
350-499	54	885.2
<500	98	933.3
500-749	91	441.7
750-999	27	119.5
1000-1249	13	45.1
1250-1499	9	26.3
1500-1999	27	19.7
2000-2499	29	6.4
<2500	294	41.5
2500-2999	47	2.7
3000-3499	45	1.0
3500-3999	29	0.7
4000-4499	11	0.8
4500+	3	1.1
2500+	135	1.1
Unknown	2	200.0

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 1997

County of Residence	Perinatal I ¹			Perinatal II ²			Neonatal ³	
	No.	Ratio	Rate	No.	Ratio	Rate	No.	Rate
Total	274	6.3	6.2	387	8.8	8.8	153	3.5
Baker	1	5.6	5.6	3	16.9	16.7	-	-
Benton	5	6.0	5.9	7	8.4	8.3	3	3.6
Clackamas	24	5.9	5.8	34	8.3	8.3	18	4.4
Clatsop	2	4.8	4.8	2	4.8	4.8	-	-
Columbia	-	-	-	-	-	-	-	-
Coos	4	6.0	5.9	4	6.0	5.9	3	4.5
Crook	1	4.5	4.5	3	13.5	13.3	1	4.5
Curry	2	14.1	13.9	2	14.1	13.9	-	-
Deschutes	7	5.3	5.3	12	9.1	9.0	3	2.3
Douglas	16	14.2	14.0	19	16.8	16.6	8	7.1
Gilliam	-	-	-	-	-	-	-	-
Grant	2	21.1	20.6	2	21.1	20.6	1	10.5
Harney	-	-	-	-	-	-	-	-
Hood River	3	10.0	9.9	4	13.3	13.2	-	-
Jackson	10	4.8	4.8	19	9.1	9.0	9	4.3
Jefferson	0	0.0	0.0	2	6.4	6.4	0	0.0
Josephine	3	4.2	4.2	6	8.4	8.3	1	1.4
Klamath	11	13.6	13.4	13	16.1	15.9	6	7.4
Lake	-	-	-	-	-	-	-	-
Lane	22	6.2	6.1	27	7.6	7.5	12	3.4
Lincoln	1	2.2	2.2	2	4.5	4.4	1	2.2
Linn	6	4.2	4.2	9	6.3	6.3	5	3.5
Malheur	7	14.7	14.5	10	21.1	20.6	3	6.3
Marion	29	6.5	6.5	40	9.0	8.9	18	4.1
Morrow	-	-	-	2	13.6	13.4	1	6.8
Multnomah	56	6.2	6.2	76	8.4	8.4	26	2.9
Polk	5	7.2	7.1	9	12.9	12.7	4	5.7
Sherman	-	-	-	1	71.4	66.7	-	-
Tillamook	3	12.3	12.1	4	16.4	16.1	-	-
Umatilla	6	5.8	5.8	11	10.7	10.6	4	3.9
Union	1	3.3	3.3	3	10.0	9.9	-	-
Wallowa	-	-	-	2	31.7	30.8	-	-
Wasco	4	13.6	13.4	5	16.9	16.7	2	6.8
Washington	36	5.5	5.5	43	6.6	6.5	18	2.8
Wheeler	-	-	-	-	-	-	-	-
Yamhill	7	6.4	6.4	11	10.1	10.0	6	5.5

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

¹ 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.

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

³ Neonatal deaths, includes infant deaths of less than 28 days.

TABLE 7-14.
Perinatal Death Rates by County of Residence,
Oregon Residents, Birth Cohort 1995-1997

County of Residence	Perinatal I ¹			Perinatal II ²			Neonatal ³	
	No.	Ratio	Rate	No.	Ratio	Rate	No.	Rate
Total	794	6.1	6.1	1,154	8.9	8.8	431	3.3
Baker	3	5.7	5.7	7	13.3	13.2	2	3.8
Benton	18	7.3	7.2	27	10.9	10.8	12	4.8
Clackamas	63	5.2	5.2	97	8.0	8.0	45	3.7
Clatsop	10	8.1	8.0	14	11.3	11.2	6	4.9
Columbia	6	4.1	4.0	9	6.1	6.1	3	2.0
Coos	9	4.7	4.7	15	7.9	7.8	5	2.6
Crook	2	3.1	3.1	4	6.1	6.1	1	1.5
Curry	4	7.6	7.6	6	11.5	11.3	3	5.7
Deschutes	17	4.5	4.4	32	8.4	8.3	9	2.4
Douglas	30	8.9	8.8	37	11.0	10.9	15	4.4
Gilliam	-	-	-	-	-	-	-	-
Grant	3	10.3	10.2	3	10.3	10.2	1	3.4
Hamey	2	8.7	8.7	2	8.7	8.7	-	-
Hood River	8	8.8	8.8	9	9.9	9.8	3	3.3
Jackson	39	6.2	6.2	59	9.4	9.3	24	3.8
Jefferson	5	5.6	5.5	9	10.0	9.9	3	3.3
Josephine	12	5.1	5.1	23	9.8	9.7	6	2.5
Klamath	26	10.4	10.3	34	13.6	13.5	15	6.0
Lake	1	4.1	4.1	1	4.1	4.1	1	4.1
Lane	59	5.4	5.4	82	7.5	7.5	38	3.5
Lincoln	5	3.8	3.8	10	7.6	7.6	2	1.5
Linn	23	5.5	5.5	29	6.9	6.9	14	3.3
Malheur	12	8.2	8.1	20	13.7	13.5	7	4.8
Marion	89	6.8	6.8	133	10.2	10.1	53	4.1
Morrow	1	2.3	2.3	3	7.0	7.0	1	2.3
Multnomah	171	6.3	6.3	242	8.9	8.8	81	3.0
Polk	11	5.4	5.4	17	8.3	8.2	5	2.4
Sherman	1	19.2	18.9	2	38.5	37.0	-	-
Tillamook	4	5.5	5.5	6	8.3	8.2	1	1.4
Umatilla	18	5.9	5.9	26	8.6	8.5	13	4.3
Union	5	5.6	5.6	9	10.2	10.1	2	2.3
Wallowa	3	14.5	14.3	5	24.2	23.6	1	4.8
Wasco	6	7.0	6.9	10	11.6	11.5	5	5.8
Washington	105	5.6	5.6	140	7.4	7.4	42	2.2
Wheeler	-	-	-	-	-	-	-	-
Yamhill	23	7.2	7.2	32	10.0	9.9	12	3.8

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

¹ 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.

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

³ 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 1997

Risk Factor	Perinatal I ¹			Perinatal II ²			Neonatal ³	
	No.	Ratio	Rate	No.	Ratio	Rate	No.	Rate
Total	274	6.3	6.2	387	8.8	8.8	153	3.5
Marital status								
Married	163	5.2	5.2	238	7.6	7.6	88	2.8
Unmarried	111	8.8	8.7	149	11.8	11.7	65	5.2
Age of Mother								
10-14	3	-	-	5	48.1	45.9	1	-
15-19	43	8.0	8.0	60	11.2	11.1	29	5.4
20-24	72	6.3	6.3	105	9.2	9.2	37	3.3
25-29	70	5.6	5.5	95	7.5	7.5	45	3.6
30-34	38	4.2	4.2	58	6.4	6.4	19	2.1
35-39	36	8.3	8.2	49	11.2	11.1	17	3.9
40-44	11	11.7	11.6	14	14.9	14.7	4	-
45+	-	-	-	-	-	-	-	-
Mother's Ethnicity/Race								
White (non-Hispanic)	198	5.8	5.7	289	8.4	8.4	110	3.2
Hispanic (all races)	52	8.9	8.8	68	11.6	11.5	30	5.1
African American	11	12.0	11.9	11	12.0	11.9	4	4.4
Indian	1	-	-	2	-	-	-	-
Other nonwhite	8	4.3	4.3	12	6.4	6.4	7	3.7
Mother's Education								
8th grade or less	23	8.8	8.7	28	10.7	10.6	14	5.4
Some HS	41	6.6	6.6	65	10.5	10.4	27	4.4
HS diploma / GED	102	6.7	6.7	142	9.4	9.3	72	4.8
More than HS	81	4.3	4.3	118	6.2	6.2	35	1.8
Start of Prenatal Care								
1st trimester	186	5.3	5.2	274	7.7	7.7	105	3.0
2nd trimester	51	7.7	7.6	66	9.9	9.8	28	4.2
3rd trimester	9	7.0	6.9	9	7.0	6.9	3	-
no care	28	62.9	59.2	38	85.4	78.7	17	38.2
Tobacco Use								
Yes	55	7.8	7.7	84	11.9	11.8	30	4.2
No	203	5.6	5.5	285	7.8	7.8	112	3.1
Alcohol Use								
Yes	10	14.6	14.4	15	21.9	21.4	3	-
No	247	5.8	5.8	352	8.3	8.2	138	3.3
Multiple Birth								
Yes	29	26.6	25.9	47	43.2	41.4	20	18.4
No	245	5.7	5.7	340	8.0	7.9	133	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.

¹ 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.

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

³ 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, 1995-1997

Risk Factor	Perinatal I ¹			Perinatal II ²			Neonatal ³	
	No.	Ratio	Rate	No.	Ratio	Rate	No.	Rate
Total	794	6.1	6.1	1,154	8.9	8.8	431	3.3
Marital Status								
Married	499	5.4	5.4	729	7.9	7.9	265	2.9
Unmarried	295	7.8	7.7	425	11.2	11.1	166	4.4
Age of Mother								
10-14	4	-	-	7	23.4	22.9	2	-
15-19	115	7.0	6.9	181	11.0	10.9	77	4.7
20-24	209	6.2	6.2	296	8.8	8.7	101	3.0
25-29	199	5.4	5.4	278	7.5	7.5	118	3.2
30-34	139	5.1	5.0	212	7.7	7.7	77	2.8
35-39	90	7.1	7.1	131	10.4	10.3	41	3.2
40-44	30	11.4	11.3	39	14.8	14.6	10	3.8
45+	5	42.7	41.0	6	51.3	48.8	3	-
Mother's Ethnicity/Race								
White (non-Hispanic)	605	5.8	5.8	890	8.6	8.5	326	3.1
Hispanic (all races)	125	7.7	7.6	173	10.6	10.5	71	4.4
African American	27	10.2	10.1	41	15.5	15.3	13	4.9
Indian	7	3.7	3.7	11	5.8	5.7	3	-
Other nonwhite	25	4.9	4.9	32	6.3	6.3	15	3.0
Mother's Education								
8th grade or less	71	9.1	9.0	88	11.3	11.2	38	4.9
Some HS	135	7.0	7.0	206	10.7	10.6	85	4.4
HS diploma / GED	271	6.1	6.0	397	8.9	8.8	162	3.6
More than HS	250	4.5	4.4	377	6.7	6.7	123	2.2
Start of Prenatal Care								
1st trimester	564	5.4	5.4	845	8.2	8.1	319	3.1
2nd trimester	139	6.7	6.6	191	9.1	9.1	72	3.4
3rd trimester	21	5.1	5.0	25	6.0	6.0	8	1.9
no care	70	49.5	47.2	93	65.8	61.7	32	22.6
Tobacco Use								
Yes	178	8.0	7.9	261	11.7	11.5	80	3.6
No	577	5.4	5.4	847	7.9	7.8	324	3.0
Alcohol Use								
Yes	32	11.6	11.5	45	16.3	16.0	13	4.7
No	718	5.7	5.7	1056	8.4	8.4	385	3.1
Multiple Birth								
Yes	80	25.0	24.4	135	42.2	40.5	66	20.7
No	714	5.6	5.6	1019	8.0	8.0	365	2.9

*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.

¹ 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.

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

³ 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 1997

Risk Factor	Neonatal ¹ Deaths		Postneonatal ² Deaths		Infant ³ Deaths	
	Number	Rate	Number	Rate	Number	Rate
Total	153	3.5	85	1.9	238	5.4
Marital status						
Married	88	2.8	43	1.4	131	4.2
Unmarried	65	5.2	42	3.3	107	8.5
Age of Mother						
10-14	1	-	-	-	1	-
15-19	29	5.4	25	4.7	54	10.1
20-24	37	3.3	25	2.2	62	5.5
25-29	45	3.6	18	1.4	63	5.0
30-34	19	2.1	9	1.0	28	3.1
35-39	17	3.9	8	1.8	25	5.7
40-44	4	-	-	-	4	-
45+	-	-	-	-	-	-
Mother's Ethnicity/Race						
White (non-Hispanic)	110	3.2	65	1.9	175	5.1
Hispanic (all races)	30	5.1	7	1.2	37	6.3
African American	4	-	3	-	7	7.7
Indian	-	-	1	-	1	-
Other nonwhite	7	3.7	3	-	10	5.4
Mother's Education						
8th grade or less	14	5.4	7	2.7	21	8.0
Some HS	27	4.4	22	3.6	49	7.9
HS diploma / GED	72	4.8	29	1.9	101	6.7
More than HS	35	1.8	24	1.3	59	3.1
Start of Prenatal Care						
1st trimester	105	3.0	53	1.5	158	4.5
2nd trimester	28	4.2	20	3.0	48	7.2
3rd trimester	3	-	9	7.0	12	9.3
no care	17	38.2	3	-	20	44.9
Tobacco Use						
Yes	30	4.2	34	4.8	64	9.1
No	112	3.1	51	1.4	163	4.5
Alcohol Use						
Yes	3	-	3	-	6	8.8
No	138	3.3	80	1.9	218	5.1
Multiple Birth						
Yes	20	18.4	4	-	24	22.0
No	133	3.1	81	1.9	214	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.

¹ Neonatal deaths, include infant deaths at 28 or fewer days of age.

² Postneonatal Deaths, include infant deaths after 28 days, but before age 1.

³ 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 1995-1997

Risk Factor	Neonatal ¹ Deaths		Postneonatal ² Deaths		Infant ³ Deaths	
	Number	Rate	Number	Rate	Number	Rate
Total	431	3.3	310	2.4	741	5.7
Marital status						
Married	265	2.9	151	1.6	416	4.5
Unmarried	166	4.4	159	4.2	325	8.6
Age of Mother						
10-14	2	-	2	-	4	-
15-19	77	4.7	82	5.0	159	9.7
20-24	101	3.0	90	2.7	191	5.7
25-29	118	3.2	57	1.5	175	4.8
30-34	77	2.8	47	1.7	125	4.6
35-39	41	3.2	27	2.1	68	5.4
40-44	10	3.8	4	-	14	5.3
45+	3	-	-	-	3	-
Mother's Ethnicity/Race						
White (non-Hispanic)	326	3.1	247	2.4	573	5.5
Hispanic (all races)	71	4.4	32	2.0	103	6.3
African American	13	4.9	19	7.2	32	12.1
Indian	3	-	3	-	6	3.1
Other nonwhite	15	3.0	7	1.4	22	4.3
Mother's Education						
8th grade or less	38	4.9	27	3.5	65	8.3
Some HS	85	4.4	76	4.0	161	8.4
HS diploma / GED	162	3.6	110	2.4	270	6.1
More than HS	123	2.2	91	1.6	213	3.8
Start of Prenatal Care						
1st trimester	319	3.1	203	2.0	522	5.0
2nd trimester	72	3.4	80	3.8	152	7.3
3rd trimester	8	1.9	18	4.3	26	6.3
no care	32	22.6	9	6.4	41	29.0
Tobacco Use						
Yes	80	3.6	124	5.5	204	9.1
No	324	3.0	182	1.7	506	4.7
Alcohol Use						
Yes	13	4.7	14	5.1	27	9.8
No	385	3.1	289	2.3	674	5.4
Multiple Birth						
Yes	60	18.8	13	4.1	73	22.8
No	371	2.9	297	2.3	668	5.3

*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.

¹ 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.

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

³ Neonatal deaths, includes infant deaths of less than 28 days.

Corrected Version 1/29/2002

Adolescent Suicide Attempts

INTRODUCTION

During 1998, 26 of Oregon's youth (under age 20) committed suicide, the smallest number since 1989. The youngest was an 11 year old boy who hanged himself. At the same time, no fewer than 761 non-fatal suicide attempts were made by Oregon adolescents.

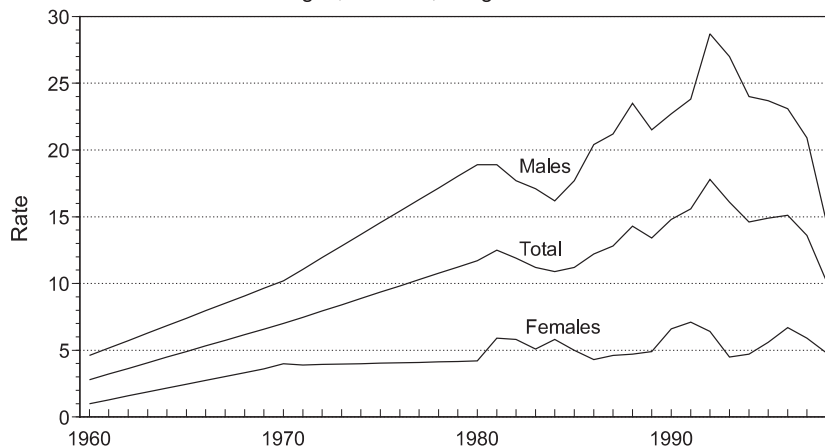
Suicide by adolescents has caused increasing concern both nationally and in Oregon. In 1987, the Oregon legislature created a law (ORS441.750) mandating that hospitals treating a child age 17 or younger for injuries resulting from a suicide attempt report the attempt to the Oregon Health Division. The law became effective in January 1988; it also requires that the patient be referred for counseling.

The suicide rate for Oregonians ages 15-19 has fallen to a level not seen since the 1970s.

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. Nonetheless, during 1996-1998, Oregonians 15-19 years old were 3.6 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 15.6 per 100,000; among females, it increased from 1.0 to 4.5. For both sexes combined, the rate increased from 2.8 to 10.2. However, these rates are based on relatively few events and therefore subject

Figure 8-1.
Suicide Rates for 15- to 19-Year-Olds, 1959-61,
1969-71, 1979-81, and Three-Year Moving
Averages, 1981-98, 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
1998	761	190	571

Attempters of unknown sex are included in the total.

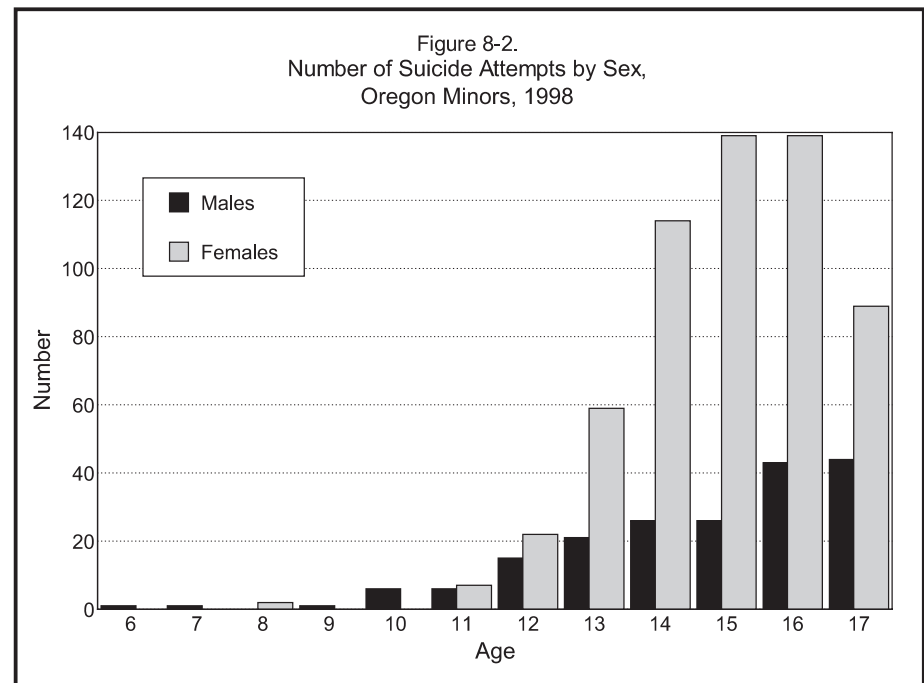
to considerable random statistical variation. This is especially true of the rates for females. Figure 8-1 illustrates the variable nature of suicide rates for 15-19 year old Oregonians during recent years.

SUICIDE ATTEMPT TRENDS

Since 1988, the number of reported suicide attempts has ranged between 526 and 778. During 1998, 761 attempts by minors were reported to the Health Division, up from 736 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.

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, this makes little difference in the calculated percentages with few exceptions (e.g., number of attempts).



AGE

The youngest child to attempt suicide was just seven years old, a boy who had been sexually abused. Sixty-one attempts by preteens were reported, 16 more than the previous year. Attempts by 13- to 17-year-olds increased by nine. As in years past, 15- to 17-year-olds accounted for about two-thirds (63%) of all attempts among Oregon minors. [Figure 8-2].

SEX

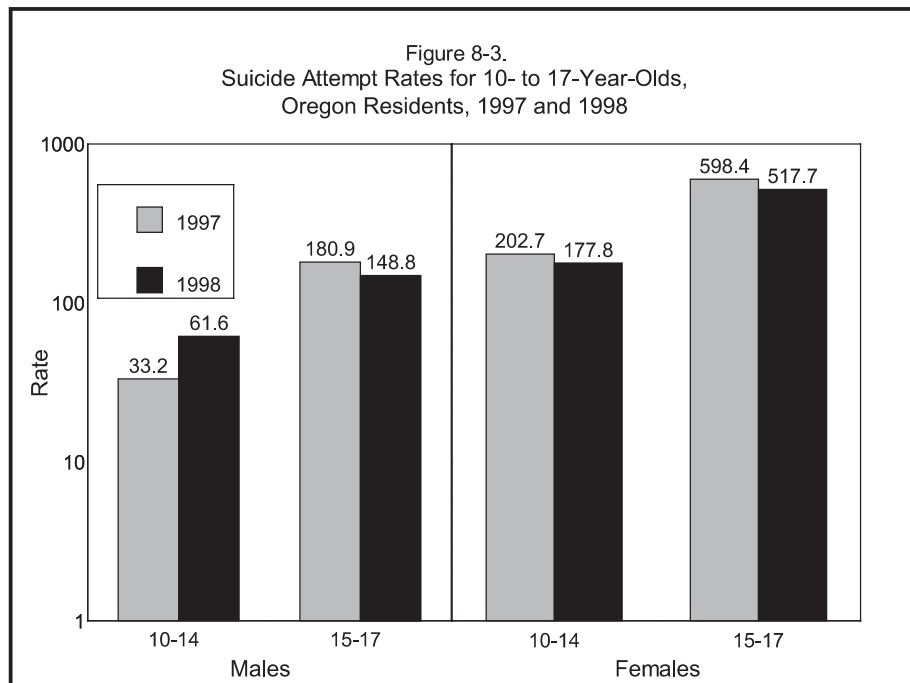
Girls were far more likely to attempt suicide than were boys; three-fourths (75%) of all attempts were by girls. [Table 8-2]. Although girls more often made attempts, attempts by males more often resulted in death, a consequence of their using more lethal methods. During 1998, the completion rate for males less than 18 years of age was 6.9 percent compared to just 0.7 percent for females in this age group. Overall, 2.3 percent of the reported attempts ended in death. Eighty-five percent of suicides by teens and preteens during 1998 were committed by males.

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 also the Center for Health Statistics report,

The youngest attempter was a seven year old boy who had been sexually abused.

Number of Attempts		
Race	1998	1997
White	683	582
African American	15	15
Indian	15	11
Chinese	0	0
Japanese	0	0
Hawaiian	0	0
Filipino	0	0
Other Asian and Pacific Islanders	14	11
Hispanic	20	28
Not Stated	14	78



Multicultural Health: Mortality Patterns by Race and Ethnicity, Oregon, 1986-1994.)

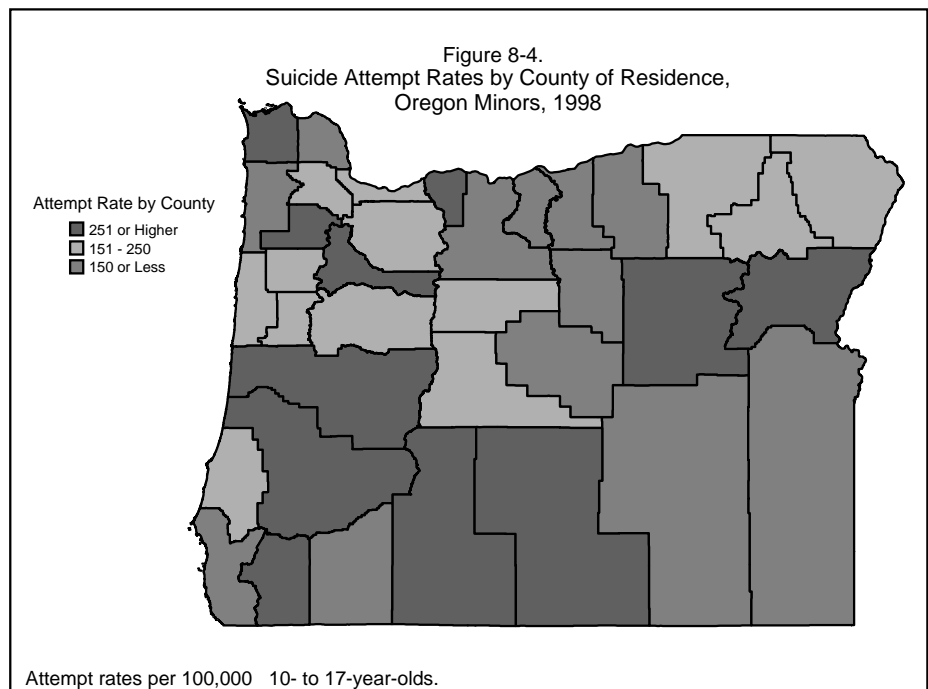
Children under government supervision were most likely to give multiple reasons for their attempts.

HOUSEHOLD SITUATION

About one-third of attempters lived with both parents (35%). Ranking second were attempters who lived with their mother only (28%) while 12 percent lived with a parent and stepparent. Just 4.9 percent lived with their father only. [Table 8-3]. Those who lived under government supervision (e.g., in an institution or foster home) more often cited three or more reasons for their attempted suicide, 37 percent did so versus 19 percent in all other living situations. The former were also most likely to have made prior attempts.

GEOGRAPHIC DISTRIBUTION

While the suicide attempt rate for the state was 200.0 per 100,000 (10- to 17-year-olds), the rates for individual counties were highly variable. [Figure 8-4.]. During 1998, among counties with ten or more attempts, the three highest rates were reported from Klamath (574.5), Douglas (294.6) and Benton (284.1) 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 *Oregon Health Trends* article “Youth Suicide: Results from the 1999 YRBS” lists suicide death rates by county.

PLACE OF ATTEMPT

Most (81%) of the attempts were made in the adolescent’s own home while 5.0 percent were made in another’s home. [Table 8-5]. Schools were the site of just 2.7 percent of the attempts.

MONTH AND DAY OF ATTEMPT

As in past years, the summer school vacation months continued to be the season of lowest risk and spring, the suicide season. Nineteen percent of the suicide attempts occurred from June through August, but half-again as many suicide attempts were reported during March through May (31%). By day of the week, suicide attempts occurred least often on Saturdays (11% of all attempts) and, departing from the usual pattern, most often on Thursdays (17%). Typically, attempts are most commonly reported on Mondays; during 1998, 16 percent of the attempts occurred on Mondays.

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; 46 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 majority (63%). Two-fifths (42%) of the 481 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 were with combinations of drugs or of drugs with alcohol. Cutting and piercing injuries were the second most common method of attempt, accounting for 15 percent of the cases; nearly all of these were lacerations of the wrists. The third single most common method was suffocation and hanging (5.7%). The category “other” in Table 8-7 includes mostly attempts by multiple methods; the

Both suicide attempts and completions occurred most often during the spring.

Six of every ten attempts were made with drugs.

Five of every ten suicides were committed with guns.

majority involved poisoning, usually with drugs, combined with laceration of the wrists. Uncommon methods, such as swallowing glass fragments, are also included here.

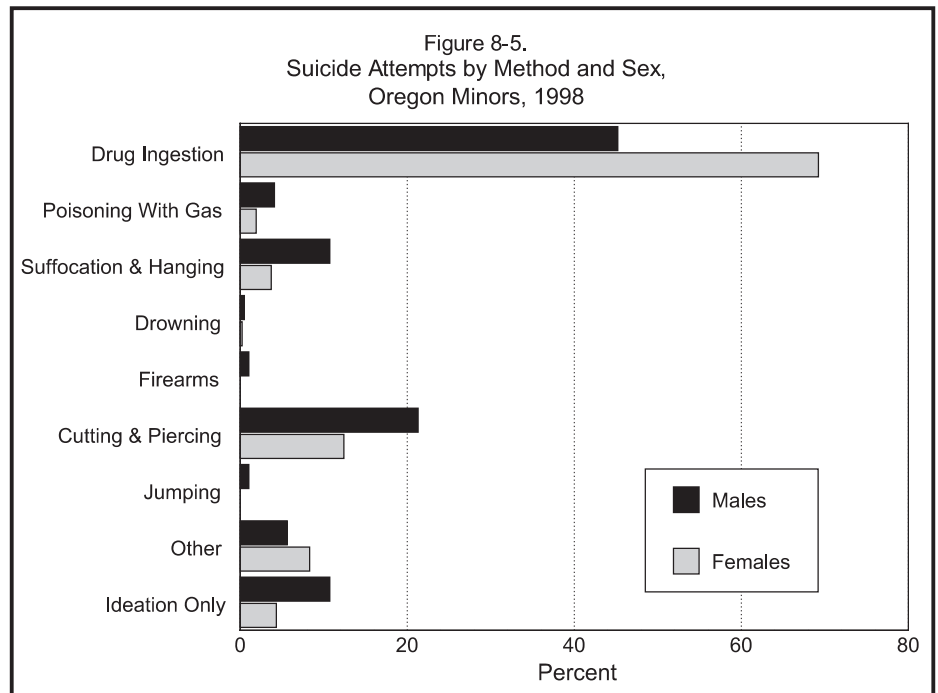
The method chosen varied with the sex of the attempter. [Table. 8-7]. More than two-thirds (69%) of the attempts by girls involved drugs compared to fewer than one-half (45%) of those by boys. [Figure 8-5]. Boys were more likely than girls to inflict cutting/piercing injuries (21% vs. 13%) and to attempt to suffocate or hang themselves (11.1% vs. 3.9%).

Percentage of attempts with guns that were fatal: 82.

As with gender, the method varied with the age of the attempter. Preteens were only about half as likely as 15- to 17-year-olds to use drugs in their attempt.

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, 69 percent compared to 59 percent. [Table 8-10]. Suffocation and hanging, a more lethal method, was used more than twice as often by repeat attempters than by those making their initial attempt (8.8% vs. 3.7%).

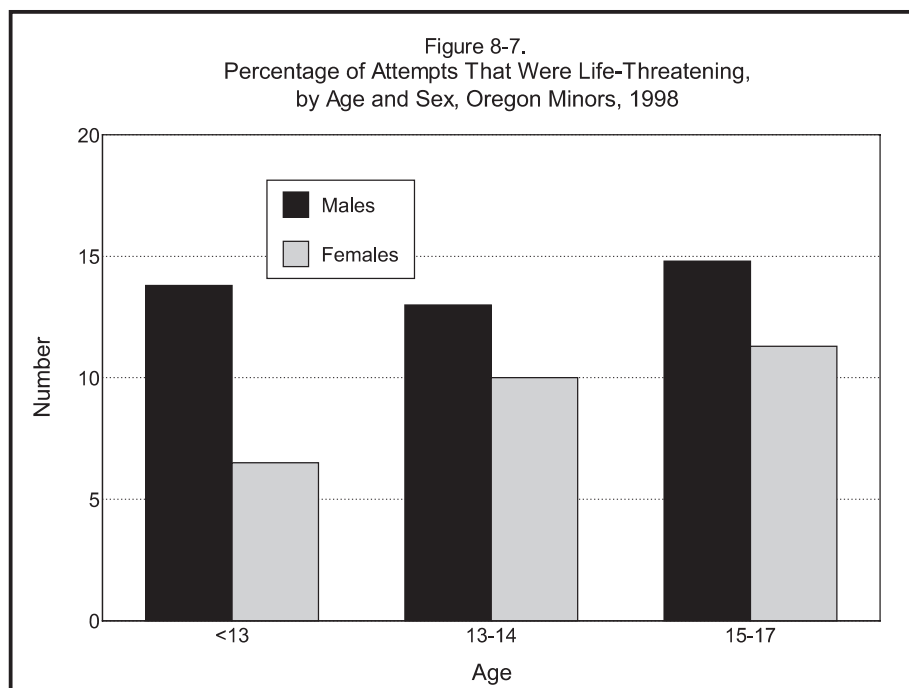
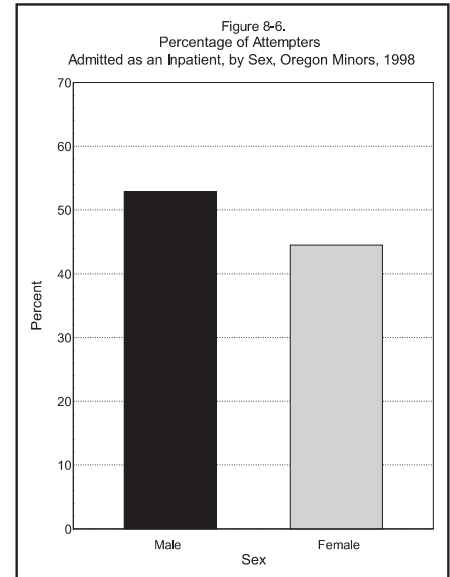


Although most attempts involved ingestion of drugs, they only infrequently resulted in death. Conversely, the highest proportion of attempts made by adolescents that resulted in death involved firearms. During 1998, half of all completed suicides (54%) by Oregonians teenaged or younger were committed 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

Nearly one-half of reported attempts (47%) 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, 53 percent compared to 45 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. Among the categories involving a single action (and with at least ten events), attempts involving hanging/suffocation or poisoning with solids or liquids other than drugs both resulted in 67 percent of the attempters requiring inpatient care. [Table 8-12]. By comparison, 41 percent of the attempts involving poisoning with drugs led to hospitalization. Attempts classified as “other” most often involved poisoning in combination with lacerations; two-thirds of these attempters were hospitalized. Also included in the “other”



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.

SEVERITY OF INJURIES

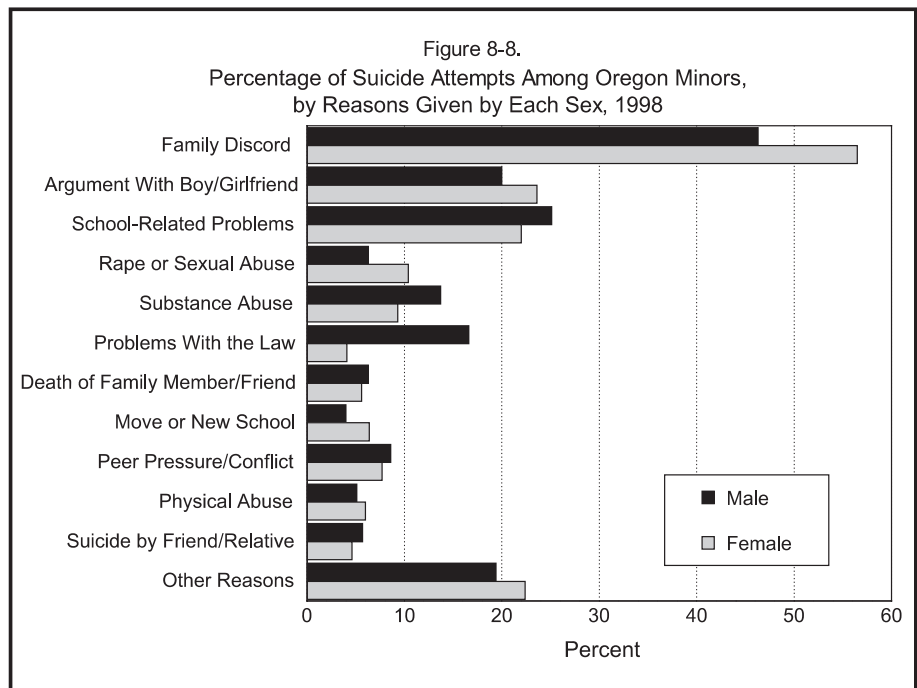
One in eight (12%) of the attempts were definitely life-threatening; another 42 percent were possibly life-threatening; attempts by boys were more often definitely life-threatening. [Table 8-13]. Some attempt methods were clearly riskier than others. Among those attempters who survived long enough to receive hospital care, suffocation/hanging and poison with solids/liquids proved especially dangerous (among the methods with at least 10 attempts). However, most fatal attempts were made with guns and death occurred before the adolescent could be transported to the hospital. Cutting and piercing injuries were least likely to be life-threatening. [Table 8-14].

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

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 16 percent and an adjusted figure of 33 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 attempters for whom the hospitals completed the attempter's intent status, 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. [Table 8-15].

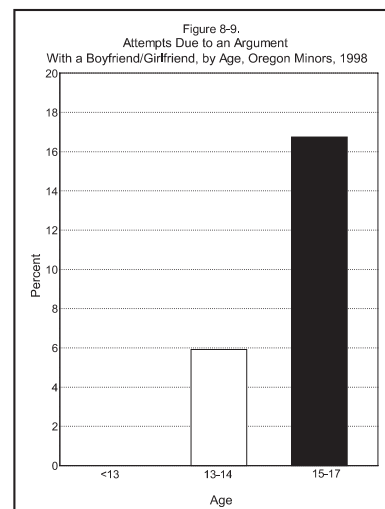
Among the methods with at least 10 attempts, attempters who used hanging/suffocation were most likely to have had death as a goal. [Table 8-16] Those attempters who use solids or liquids other than drugs to poison themselves were judged least likely to have tried to kill themselves. Some adolescents 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 one-fifth of attempters whose goal was death did not use life-threatening means.

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 13 year old boy who had been sexually and physically abused reported family discord, an argument with his girlfriend, peer pressure and conflict, and school problems; he attempted suicide by hanging. Only about 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. Just over half (54%) of Oregon minors said this prompted their attempts. [Table 8-17]. It was mentioned most often by older teens. Children attempting suicide who lived with a parent and stepparent were more likely to report family discord than those living with both natural parents, 68 percent compared to 45 percent. Family discord was mentioned by 77 percent of Asians/Pacific Islanders, and 77 percent of American Indians, the highest proportions by race; 53 percent of whites said discord was a cause. Attempters living east of the Cascade Range were nearly half again as likely to list family discord as the reason for their attempt than were those in the Tri-County area (66% vs. 48%).



School-related problems (e.g., performance, truancy) were cited by 23 percent of attempters. Boys were a little more likely to report school-related problems than were girls, 25 percent compared to 22 percent. The second most common reason for an attempt among preteens, the importance of this factor diminished with increasing age. Not surprisingly, school-related problems were least frequently reported during June through August.

An argument or break up with a boyfriend or girlfriend ranked closely behind as a reason given for suicide attempts. Girls and older attempters were more likely to give this as a reason than were boys and younger children. [Figure 8-9]. White youth were more likely to inflict self harm for this reason than were other racial/ethnic groups.

Substance abuse was linked to 10 percent of the attempts and it was listed more often by males than by females (13.8% vs. 9.3%). Sixty-nine percent of attempters mentioning substance abuse were treated as in-patients compared to 47 percent of attempters overall. Substance abuse was most common (by living situation) among homeless youth (38%); just 7.8 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, 12.4 percent versus 9.4 percent.

Sexual abuse or rape was cited by 9.3 percent of the attempters, and was reported almost twice as often by females than by males, 10.3 percent versus 6.3 percent. One-third of youth who reported sexual abuse or rape were judged to have intended to kill themselves, double the overall proportion of attempters. Sexually abused/raped attempters were among those most likely to have made repeated attempts; 49 percent had done so and 69 percent were admitted as inpatients. Most often, the rape or sexual abuse was reportedly committed by fathers, step-fathers and uncles.

Peer pressure or conflict was identified as a the cause by 7.8 percent of attempters, and was cited more often by males and preteens.

Encounters with the legal system were mentioned by 7.2 percent of the attempters. Shoplifting was most common, but also reported were assaults on parents and other relatives, prostitution, and other serious crimes. Teenagers were twice as likely to give this as a reason for their suicide attempt than were preteens while males were four times as likely to report this.

Males were four times more likely to report their criminal activity as a reason for their suicide attempt.

Substance abuse as a reason for a suicide attempt was reported less often among attempters living with two parents.

A move or attendance at a new school was cited by 5.8 percent of the attempters, with females about half again as likely to do so than males (6.4% vs. 4.0%). A new school was a greater concern among preteens than among their older counterparts. Tri-County youth were also more likely to give this as a reason, 7.1 percent versus 5.5 percent of other western Oregon youth and 4.1 percent of those residing east of the Cascades.

Physical abuse was also reported in 5.8 percent of the attempts. Preteens gave this as a reason three times more often than 15- to 17-year-olds. Physically abused children were most likely to have made attempts that were definitely or possibly life-threatening (80% vs. 52% making attempts for other reasons). They were also most likely to have made previous attempts (55%) and to be admitted as an inpatient (75%).

The death of a family member or friend prompted 5.8 percent of the attempts. Males and females were about equally likely to report this as a reason for attempting suicide. It was mentioned most often by preteens.

A suicide or attempted suicide by a family member or friend prompted 4.8 percent of the attempts. Male attempters reported this as a reason more often than females. It was more often given as a reason by teens than by preteens.

Concern about pregnancy prompted 1.7 percent of the attempts. All attempters were female and most (10 of 12) were 15 to 17 years of age.

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: parental drug abuse, abandonment, gang involvement, illness of family members or self, employment problems, 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.

Attempters reporting physical abuse were most apt to have made previous suicide attempts.

CONCLUSIONS

Although the teen suicide rate is not as high as the rates for most older Oregonians, it is still 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. Without intervention, a failed suicide attempt may be followed by an attempt that results in death. The single best predictor of death by suicide is a previous suicide attempt.

TABLE 8-1.
Number of Suicides Among Oregon Teens and Preteens
by Age and Sex, 1988-1998

Year and Sex	Age												
	10-19	10-17	15-19	10	11	12	13	14	15	16	17	18	19
1988 Total	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
1989 Total	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
1990 Total	*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
1991 Total	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	-
1992 Total	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
1993 Total	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
1994 Total	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
1995 Total	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
1996 Total	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
1997 Total	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
1998 Total	26	18	18	-	1	-	2	5	2	2	6	4	4
Male	22	14	16	-	1	-	2	3	2	1	5	4	4
Females	4	4	2	-	-	-	-	2	-	1	1	-	-

* Includes one seven-year-old.

**TABLE 8-2.
Suicide Attempts by Sex and Age, Oregon Minors, 1998**

Sex	Total	Age		
		<=12	13-14	15-17
Total	761	61	220	480
Male	190	30	47	113
Females	571	31	173	367
<i>Row Percent</i>				
Total	100.0	8.0	28.9	63.1
Male	100.0	15.8	24.7	59.5
Females	100.0	5.4	30.3	64.3
<i>Column Percent</i>				
Total	100.0	100.0	100.0	100
Male	25.0	49.2	21.4	23.5
Females	75.0	50.8	78.6	76.5

**TABLE 8-3.
Suicide Attempts by Age and Living Situation, Oregon
Minors, 1998**

Household Situation	Total	Age		
		<=12	13-14	15-17
Total	697	55	207	435
Both Parents	245	20	64	161
Father Only	34	1	9	24
Mother Only	194	21	64	109
Parent & Step-parent	84	7	30	47
Other Relatives	38	2	13	23
Friends	18	-	1	17
Foster Parents, SCF ¹ , etc.	52	4	20	28
Homeless	8	-	3	5
Other	24	-	3	21
<i>Row Percent</i>				
Total	100.0	8.0	28.9	63.1
Both Parents	100.0	8.2	26.1	65.7
Father Only	100.0	2.9	26.5	70.6
Mother Only	100.0	10.8	33.0	56.2
Parent & Step-parent	100.0	8.3	35.7	56.0
Other Relatives	100.0	5.3	34.2	60.5
Friends	100.0	-	5.6	94.4
Foster Parents, SCF ¹ , etc.	100.0	7.7	38.5	53.8
Homeless	100.0	-	37.5	62.5
Other	100.0	-	12.5	87.5
<i>Column Percent</i>				
Total	100.0	100.0	100.0	100.0
Both Parents	35.2	36.4	30.9	37.0
Father Only	4.9	1.8	4.3	5.5
Mother Only	27.8	38.2	30.9	25.1
Parent & Step-parent	12.1	12.7	14.5	10.8
Other Relatives	5.5	3.6	6.3	5.3
Friends	2.6	-	0.5	3.9
Foster Parents, SCF ¹ , etc.	7.5	7.3	9.7	6.4
Homeless	1.1	-	1.4	1.1
Other	3.4	-	1.4	4.8

NOTE: Excluded from the table are cases (64) with missing and/or unknown values for the variables shown.

1. Services to Children and Families (formerly known as the Children's Services Division).

**TABLE 8-4.
Suicide Attempts by Sex, Age, and County of Residence,
Oregon Minors, 1998**

County of Residence	Total	Attempt Rate	Age					
			<=12		13-14		15-17	
			M	F	M	F	M	F
Total	761	200.0	30	31	47	173	113	367
Baker	3	148.8	*	*	*	*	*	*
Benton	22	284.1	-	-	-	7	4	11
Clackamas	67	167.1	1	5	3	14	11	33
Clatsop	6	145.2	*	*	*	*	*	*
Columbia	3	45.8	*	*	*	*	*	*
Coos	13	186.2	-	1	-	2	5	5
Crook	1	47.9	*	*	*	*	*	*
Curry	2	85.0	*	*	*	*	*	*
Deschutes	31	247.5	-	1	4	6	8	12
Douglas	36	294.6	4	5	2	9	4	12
Gilliam	-	-	-	-	-	-	-	-
Grant	1	92.5	*	*	*	*	*	*
Harney	1	95.1	*	*	*	*	*	*
Hood River	9	348.6	*	*	*	*	*	*
Jackson	55	257.8	7	1	3	14	10	20
Jefferson	4	167.1	*	*	*	*	*	*
Josephine	20	241.6	3	-	2	3	3	9
Klamath	44	574.5	2	-	-	17	6	19
Lake	2	183.5	*	*	*	*	*	*
Lane	89	257.1	1	2	2	25	13	46
Lincoln	11	224.9	2	-	2	-	4	3
Linn	21	169.1	-	2	1	6	2	10
Malheur	3	72.5	*	*	*	*	*	*
Marion	83	252.3	3	2	10	15	13	40
Morrow	-	-	-	-	-	-	-	-
Multnomah	119	185.1	4	5	6	23	14	67
Polk	12	163.8	-	-	2	5	-	5
Sherman	-	-	-	-	-	-	-	-
Tillamook	7	267.6	*	*	*	*	*	*
Umatilla	19	219.0	1	2	-	6	2	8
Union	3	92.6	*	*	*	*	*	*
Wallowa	-	-	-	-	-	-	-	-
Wasco	7	245.3	*	*	*	*	*	*
Washington	50	107.6	1	1	2	6	8	32
Wheeler	-	-	-	-	-	-	-	-
Yamhill	17	158.6	-	1	2	7	-	7

* Detailed reporting of small numbers may breach confidentiality.

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

TABLE 8-5.
Suicide Attempts by Sex and Place of Attempt, Oregon Minors, 1998

Sex	Total	Place of Attempt							
		Private Home		School	Jail	Other Institution	Public Place	Foster Home	Other
		Own	Other						
Total	700	567	35	19	6	35	8	4	26
Male	173	130	7	7	2	11	6	1	9
Female	527	437	28	12	4	24	2	3	17
<i>Row Percent</i>									
Total	100.0	81.0	5.0	2.7	0.9	5.0	1.1	0.6	3.7
Male	100.0	75.1	4.0	4.0	1.2	6.4	3.5	0.6	5.2
Female	100.0	82.9	5.3	2.3	0.8	4.6	0.4	0.6	3.2
<i>Column Percent</i>									
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Male	24.7	22.9	20.0	36.8	33.3	31.4	75.0	25.0	34.6
Female	75.3	77.1	80.0	63.2	66.7	68.6	25.0	75.0	65.4

NOTE: Excluded from the table are cases (61) with missing and/or unknown values for the variables shown.

TABLE 8-6.
Prior Suicide Attempts by Current Attempters During the Previous Five Years, by Sex and Number of Attempts, Oregon Minors, 1998

Sex	Total	Previous Attempts						Yes But # Unk.
		0	1	2	3	4+		
Total	585	324	114	16	12	12	107	
Male	135	82	25	5	1	1	21	
Female	450	242	89	11	11	11	86	
<i>Row Percent</i>								
Total	100.0	55.4	19.5	2.7	2.1	2.1	18.3	
Male	100.0	60.7	18.5	3.7	0.7	0.7	15.6	
Female	100.0	53.8	19.8	2.4	2.4	2.4	19.1	
<i>Column Percent</i>								
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Male	23.1	25.3	21.9	31.3	8.3	8.3	19.6	
Female	76.9	74.7	78.1	68.8	91.7	91.7	80.4	

NOTE: Excluded from the table are cases (176) with missing and/or unknown values for the variables shown.

TABLE 8-7.
Suicide Attempts by Method and Sex, Oregon
Minors, 1998

Method of Attempt	Total	Sex	
		Male	Female
Total	761	190	571
Poisoning, Drugs	481	86	395
Poisoning, Solids & Liquids	18	8	10
Poisoning, Gas	-	-	-
Suffocation & Hanging	43	21	22
Drowning	2	1	1
Firearms	2	2	-
Cutting & Piercing	111	39	72
Jumping from a High Place	2	2	-
Other	57	10	47
Ideation Only	45	21	24
<i>Row Percent</i>			
Total	100.0	25.0	75.0
Poisoning, Drugs	100.0	17.9	82.1
Poisoning, Solids & Liquids	100.0	44.4	55.6
Poisoning, Gas	-	-	-
Suffocation & Hanging	100.0	48.8	51.2
Drowning	100.0	50.0	50.0
Firearms	100.0	100.0	-
Cutting & Piercing	100.0	35.1	64.9
Jumping from a High Place	100.0	100.0	-
Other	100.0	17.5	82.5
Ideation Only	100.0	46.7	53.3
<i>Column Percent</i>			
Total	100.0	100.0	100.0
Poisoning, Drugs	63.2	45.3	69.2
Poisoning, Solids & Liquids	2.4	4.2	1.8
Poisoning, Gas	-	-	-
Suffocation & Hanging	5.7	11.1	3.9
Drowning	0.3	0.5	0.2
Firearms	0.3	1.1	-
Cutting & Piercing	14.6	20.5	12.6
Jumping from a High Place	0.3	1.1	-
Other	7.5	5.3	8.2
Ideation Only	5.9	11.1	4.2

TABLE 8-8.
Suicide Attempts by Method and Age,
Oregon Minors, 1998

Method of Attempt	Total	Age		
		<=12	13-14	15-17
Total	761	61	220	480
Poisoning, Drugs	481	22	136	323
Poisoning, Solids & Liquids	18	2	1	15
Poisoning, Gas	-	-	-	-
Suffocation & Hanging	43	9	11	23
Drowning	2	-	2	-
Firearms	2	-	1	1
Cutting & Piercing	111	9	38	64
Jumping from a High Place	2	-	-	2
Other	57	9	17	31
Ideation Only	45	10	14	21
<i>Row Percent</i>				
Total	100.0	8.0	28.9	63.1
Poisoning, Drugs	100.0	4.6	28.3	67.2
Poisoning, Solids & Liquids	100.0	11.1	5.6	83.3
Poisoning, Gas	-	-	-	-
Suffocation & Hanging	100.0	20.9	25.6	53.5
Drowning	100.0	-	100.0	-
Firearms	100.0	-	50.0	50.0
Cutting & Piercing	100.0	8.1	34.2	57.7
Jumping from a High Place	100.0	-	-	100.0
Other	100.0	15.8	29.8	54.4
Ideation Only	100.0	22.2	31.1	46.7
<i>Column Percent</i>				
Total	100.0	100.0	100.0	100.0
Poisoning, Drugs	63.2	36.1	61.8	67.3
Poisoning, Solids & Liquids	2.4	3.3	0.5	3.1
Poisoning, Gas	-	-	-	-
Suffocation & Hanging	5.7	14.8	5.0	4.8
Drowning	0.3	-	0.9	-
Firearms	0.3	-	0.5	0.2
Cutting & Piercing	14.6	14.8	17.3	13.3
Jumping from a High Place	0.3	-	-	0.4
Other	7.5	14.8	7.7	6.5
Ideation Only	5.9	16.4	6.4	4.4

**TABLE 8-9.
Suicide Attempts by Method and Region of Attempt, Oregon Minors, 1998**

Method of Attempt	Total	Region		
		Tri-County*	Western Oregon**	Eastern Oregon
Total	761	236	397	128
Poisoning, Drugs	481	160	236	85
Poisoning, Solids & Liquids	18	6	10	2
Poisoning, Gas	-	-	-	-
Suffocation & Hanging	43	8	32	3
Drowning	2	-	2	-
Firearms	2	1	-	1
Cutting & Piercing	111	31	59	21
Jumping from a High Place	2	-	2	-
Other	57	20	26	11
Ideation Only	45	10	30	5
<i>Row Percent</i>				
Total	100.0	31.0	52.2	16.8
Poisoning, Drugs	100.0	33.3	49.1	17.7
Poisoning, Solids & Liquids	100.0	33.3	55.6	11.1
Poisoning, Gas	-	-	-	-
Suffocation & Hanging	100.0	18.6	74.4	7.0
Drowning	100.0	-	100.0	-
Firearms	100.0	50.0	-	50.0
Cutting & Piercing	100.0	27.9	53.2	18.9
Jumping from a High Place	100.0	-	100.0	-
Other	100.0	35.1	45.6	19.3
Ideation Only	100.0	22.2	66.7	11.1
<i>Column Percent</i>				
Total	100.0	100.0	100.0	100.0
Poisoning, Drugs	63.2	67.8	59.4	66.4
Poisoning, Solids & Liquids	2.4	2.5	2.5	1.6
Poisoning, Gas	-	-	-	-
Suffocation & Hanging	5.7	3.4	8.1	2.3
Drowning	0.3	-	0.5	-
Firearms	0.3	0.4	-	0.8
Cutting & Piercing	14.6	13.1	14.9	16.4
Jumping from a High Place	0.3	-	0.5	-
Other	7.5	8.5	6.5	8.6
Ideation Only	5.9	4.2	7.6	3.9

* Clackamas, Multnomah and Washington counties.

** Counties west of the Cascade Mountains excluding Clackamas, Multnomah and Washington.

TABLE 8-10.
Suicide Attempts by Method and Attempts During the
Previous Five Years, Oregon Minors, 1998

Method of Attempt	Total	Previous Attempts	
		No Previous Attempts	Previous Attempts
Total	585	324	261
Poisoning, Drugs	378	223	155
Poisoning, Solids & Liquids	11	4	7
Poisoning, Gas	-	-	-
Suffocation & Hanging	35	12	23
Drowning	1	-	1
Firearms	-	-	-
Cutting & Piercing	84	46	38
Jumping from a High Place	1	-	1
Other	44	22	22
Ideation Only	31	17	14
<i>Row Percent</i>			
Total	100.0	55.4	44.6
Poisoning, Drugs	100.0	59.0	41.0
Poisoning, Solids & Liquids	100.0	36.4	63.6
Poisoning, Gas	-	-	-
Suffocation & Hanging	100.0	34.3	65.7
Drowning	100.0	-	100.0
Firearms	-	-	-
Cutting & Piercing	100.0	54.8	45.2
Jumping from a High Place	100.0	-	100.0
Other	100.0	50.0	50.0
Ideation Only	100.0	54.8	45.2
<i>Column Percent</i>			
Total	100.0	100.0	100
Poisoning, Drugs	64.6	68.8	59.4
Poisoning, Solids & Liquids	1.9	1.2	2.7
Poisoning, Gas	-	-	-
Suffocation & Hanging	6.0	3.7	8.8
Drowning	0.2	-	0.4
Firearms	-	-	-
Cutting & Piercing	14.4	14.2	14.6
Jumping from a High Place	0.2	-	0.4
Other	7.5	6.8	8.4
Ideation Only	5.3	5.2	5.4

NOTE: Excluded from the table are cases (176) with missing and/or unknown values for the variables shown.

TABLE 8-11.
Suicide Attempts by Sex and Subsequent
Patient Status, Oregon Minors, 1998

Sex	Total	Patient Status	
		Admitted as an Inpatient	Out-Patient
Total	753	351	402
Male	187	99	88
Female	566	252	314
<i>Row Percent</i>			
Total	100.0	46.6	53.4
Male	100.0	52.9	47.1
Female	100.0	44.5	55.5
<i>Column Percent</i>			
Total	100.0	100.0	100.0
Male	24.8	28.2	21.9
Female	75.2	71.8	78.1

NOTE: Excluded from the table are cases (8) with missing and/or unknown values for the variables shown.

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, 1998

Method of Attempt	Total	Patient Status	
		Admitted as an Inpatient	Out-Patient
Total	753	351	402
Poisoning, Drugs	477	197	280
Poisoning, Solids & Liquids	18	12	6
Poisoning, Gas	-	-	-
Suffocation & Hanging	43	29	14
Drowning	2	2	-
Firearms	2	2	-
Cutting & Piercing	107	45	62
Jumping from a High Place	2	2	-
Other	57	38	19
Ideation Only	45	24	21
<i>Row Percent</i>			
Total	100.0	46.6	53.4
Poisoning, Drugs	100.0	41.3	58.7
Poisoning, Solids & Liquids	100.0	66.7	33.3
Poisoning, Gas	-	-	-
Suffocation & Hanging	100.0	67.4	32.6
Drowning	100.0	100.0	-
Firearms	100.0	100.0	-
Cutting & Piercing	100.0	42.1	57.9
Jumping from a High Place	100.0	100.0	-
Other	100.0	66.7	33.3
Ideation Only	100.0	53.3	46.7
<i>Column Percent</i>			
Total	100.0	100.0	100.0
Poisoning, Drugs	63.3	56.1	69.7
Poisoning, Solids & Liquids	2.4	3.4	1.5
Poisoning, Gas	-	-	-
Suffocation & Hanging	5.7	8.3	3.5
Drowning	0.3	0.6	-
Firearms	0.3	0.6	-
Cutting & Piercing	14.2	12.8	15.4
Jumping from a High Place	0.3	0.6	-
Other	7.6	10.8	4.7
Ideation Only	6.0	6.8	5.2

NOTE: Excluded from the table are cases (8) with missing and/or unknown values for the variables shown.

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, 1998**

Sex and Age	Total	Life-threatening?		
		Yes	Possibly	No
Both Sexes	746	86	312	348
<=12	60	6	22	32
13-14	216	23	90	103
15-17	470	57	200	213
Male	183	26	68	89
<=12	29	4	11	14
13-14	46	6	12	28
15-17	108	16	45	47
Female	563	60	244	259
<=12	31	2	11	18
13-14	170	17	78	75
15-17	362	41	155	166
Row Percent				
Both Sexes	100.0	11.5	41.8	46.6
<=12	100.0	10.0	36.7	53.3
13-14	100.0	10.6	41.7	47.7
15-17	100.0	12.1	42.6	45.3
Male	100.0	14.2	37.2	48.6
<=12	100.0	13.8	37.9	48.3
13-14	100.0	13.0	26.1	60.9
15-17	100.0	14.8	41.7	43.5
Female	100.0	10.7	43.3	46.0
<=12	100.0	6.5	35.5	58.1
13-14	100.0	10.0	45.9	44.1
15-17	100.0	11.3	42.8	45.9

NOTE: Excluded from the table are cases (15) with missing and/or unknown values for the variables shown.

TABLE 8-14.
Suicide Attempts by Method and Severity of Injuries, Oregon Minors, 1998

Method of Attempt	Total	Life-threatening?		
		Yes	Possibly	No
Total	746	86	312	348
Poisoning, Drugs	469	55	221	193
Poisoning, Solids & Liquids	18	3	9	6
Poisoning, Gas	-	-	-	-
Suffocation & Hanging	41	13	17	11
Drowning	2	-	1	1
Firearms	2	2	-	-
Cutting & Piercing	110	4	29	77
Jumping from a High Place	2	1	1	-
Other	57	8	32	17
Ideation Only	45	-	2	43
<i>Row Percent</i>				
Total	100.0	11.5	41.8	46.6
Poisoning, Drugs	100.0	11.7	47.1	41.2
Poisoning, Solids & Liquids	100.0	16.7	50.0	33.3
Poisoning, Gas	-	-	-	-
Suffocation & Hanging	100.0	31.7	41.5	26.8
Drowning	100.0	-	50.0	50.0
Firearms	100.0	100.0	-	-
Cutting & Piercing	100.0	3.6	26.4	70.0
Jumping from a High Place	100.0	50.0	50.0	-
Other	100.0	14.0	56.1	29.8
Ideation Only	100.0	-	4.4	95.6
<i>Column Percent</i>				
Total	100.0	100.0	100.0	100.0
Poisoning, Drugs	62.9	64.0	70.8	55.5
Poisoning, Solids & Liquids	2.4	3.5	2.9	1.7
Poisoning, Gas	-	-	-	-
Suffocation & Hanging	5.5	15.1	5.4	3.2
Drowning	0.3	-	0.3	0.3
Firearms	0.3	2.3	-	-
Cutting & Piercing	14.7	4.7	9.3	22.1
Jumping from a High Place	0.3	1.2	0.3	-
Other	7.6	9.3	10.3	4.9
Ideation Only	6.0	-	0.6	12.4

NOTE: Excluded from the table are cases (15) with missing and/or unknown values for the variables shown.

**TABLE 8-15.
Suicide Attempts by Sex, Age, and Intent of Attempter,
Oregon Minors, 1998**

Sex and Age	Total	Tried to Kill Themselves?			
		Yes	No	Ideation	Uncertain
Both Sexes	759	120	200	46	393
<=12	61	6	15	10	30
13-14	219	37	57	14	111
15-17	479	77	128	22	252
Male	188	28	40	22	98
<=12	30	2	6	8	14
13-14	46	8	9	7	22
15-17	112	18	25	7	62
Female	571	92	160	24	295
<=12	31	4	9	2	16
13-14	173	29	48	7	89
15-17	367	59	103	15	190
Row Percent					
Both Sexes	100.0	15.8	26.3	6.0	51.6
<=12	100.0	9.8	24.6	16.4	49.2
13-14	100.0	16.8	25.9	6.4	50.5
15-17	100.0	16.0	26.7	4.6	52.5
Male	100.0	14.7	21.1	11.6	51.6
<=12	100.0	6.7	20.0	26.7	46.7
13-14	100.0	17.0	19.1	14.9	46.8
15-17	100.0	15.9	22.1	6.2	54.9
Female	100.0	16.1	28.0	4.2	51.7
<=12	100.0	12.9	29.0	6.5	51.6
13-14	100.0	16.8	27.7	4.0	51.4
15-17	100.0	16.1	28.1	4.1	51.8

NOTE: Excluded from the table are cases (15) with missing and/or unknown values for the variables shown.

TABLE 8-16.
Suicide Attempts by Method and Intent of Attempter, Oregon Minors, 1998

Method of Attempt	Total	Tried to Kill Themselves?			
		Yes	No	Ideation	Uncertain
Total	759	120	200	46	393
Poisoning, Drugs	480	83	149	2	246
Poisoning, Solids & Liquids	18	1	5	-	12
Poisoning, Gas	-	-	-	-	-
Suffocation & Hanging	43	13	3	-	27
Drowning	2	-	-	-	2
Firearms	2	1	-	-	1
Cutting & Piercing	110	9	39	-	62
Jumping from a High Place	2	-	-	-	2
Other	57	13	3	1	40
Ideation Only	45	-	1	43	1
<i>Row Percent</i>					
Total	100.0	15.8	26.4	6.1	51.8
Poisoning, Drugs	100.0	17.3	31.0	0.4	51.3
Poisoning, Solids & Liquids	100.0	5.6	27.8	-	66.7
Poisoning, Gas	-	-	-	-	-
Suffocation & Hanging	100.0	30.2	7.0	-	62.8
Drowning	100.0	-	-	-	100.0
Firearms	100.0	50.0	-	-	50.0
Cutting & Piercing	100.0	8.2	35.5	-	56.4
Jumping from a High Place	100.0	-	-	-	100.0
Other	100.0	22.8	5.3	1.8	70.2
Ideation Only	100.0	-	2.2	95.6	2.2
<i>Column Percent</i>					
Total	100.0	100.0	100.0	100.0	100.0
Poisoning, Drugs	63.2	69.2	74.5	4.3	62.6
Poisoning, Solids & Liquids	2.4	0.8	2.5	-	3.1
Poisoning, Gas	-	-	-	-	-
Suffocation & Hanging	5.7	10.8	1.5	-	6.9
Drowning	0.3	-	-	-	0.5
Firearms	0.3	0.8	-	-	0.3
Cutting & Piercing	14.5	7.5	19.5	-	15.8
Jumping from a High Place	0.3	-	-	-	0.5
Other	7.5	10.8	1.5	2.2	10.2
Ideation Only	5.9	-	0.5	93.5	0.3

NOTE: Excluded from the table are cases (2) with missing and/or unknown values for the variables shown.

TABLE 8-17.
Reasons Given for Suicide Attempts by Age and Sex,
Oregon Minors, 1998

Reasons	Total	Sex		Age		
		Male	Female	<=12	13-14	15-17
Total						
Number	691	174	517	57	197	437
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Family Discord						
Number	371	81	290	34	111	226
Percent	53.7	46.6	56.1	40.4	43.7	48.3
School-Related Problems						
Number	157	44	113	15	47	95
Percent	22.7	25.3	21.9	26.3	23.9	21.7
Argument With Boy/Girl Friend						
Number	156	35	121	-	40	116
Percent	22.6	20.1	23.4	-	20.3	26.5
Substance Abuse						
Number	72	24	48	1	21	50
Percent	10.4	13.8	9.3	1.8	10.7	11.4
Rape or Sexual Abuse						
Number	64	11	53	8	17	39
Percent	9.3	6.3	10.3	14.0	8.6	8.9
Peer Pressure/Conflict						
Number	54	15	39	7	16	31
Percent	7.8	8.6	7.5	12.3	8.1	7.1
Problems With the Law						
Number	50	29	21	2	17	31
Percent	7.2	16.7	4.1	3.5	8.6	7.1
Move or New School						
Number	40	7	33	3	11	26
Percent	5.8	4.0	6.4	5.3	5.6	5.9
Physical Abuse						
Number	40	9	31	7	15	18
Percent	5.8	5.2	6.0	12.3	7.6	4.1
Death of Family Member/Friend						
Number	40	11	29	5	12	23
Percent	5.8	6.3	5.6	8.8	6.1	5.3
Suicide by Friend/Relative						
Number	33	10	23	3	15	15
Percent	4.8	5.7	4.4	0.4	7.6	3.4
Pregnancy						
Number	12	-	12	-	2	10
Percent	1.7	-	2.3	-	1.0	2.3
Other Reasons						
Number	150	34	116	15	44	91
Percent	21.7	19.5	22.4	26.3	22.3	20.8

NOTE: Reports with unknown reasons for suicide attempts (70) 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, 1998

Reasons	Total		Life Threatening?					
			Yes		Possibly		No	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total	678	100	75	11.1	288	42.5	315	46.5
Family Discord	361	100	46	12.7	153	42.4	162	44.9
School-Related Problems	156	100	29	18.6	63	40.4	64	41.0
Argument With Boy/Girlfriend	155	100	20	12.9	69	44.5	66	42.6
Substance Abuse	70	100	15	21.4	33	47.1	22	31.4
Rape or Sexual Abuse	64	100	15	23.4	24	37.5	25	39.1
Peer Pressure/Conflict	55	100	11	20.0	23	41.8	21	38.2
Problems With the Law	49	100	14	28.6	22	44.9	13	26.5
Physical Abuse	39	100	11	28.2	21	53.8	7	17.9
Move or New School	38	100	9	23.7	13	34.2	16	42.1
Death of Family Member/Friend	37	100	6	16.2	15	40.5	16	43.2
Suicide by Friend/Relative	34	100	6	17.6	14	41.2	14	41.2
Pregnancy	12	100	1	8.3	5	41.7	6	50.0
Other Reasons	147	100	10	6.8	72	49.0	65	44.2

NOTE: Excluded from the table are cases (83) with missing and/or unknown values for the variables shown. The category "suicide by friend/relative" includes suicide attempts.

TABLE 8-19.
Reasons Given for Suicide Attempts by Intent of Attempter, Oregon Minors, 1998

Reasons	Total		Tried to Kill Themselves?							
			Yes		No		Ideation		Uncertain	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total	691	100	110	15.9	175	25.3	45	6.5	361	52.2
Family Discord	372	100	60	16.1	95	25.5	23	6.2	194	52.2
School-Related Problems	157	100	40	25.5	25	15.9	13	8.3	79	50.3
Argument With Boy/Girlfriend	157	100	26	16.6	52	33.1	2	1.3	77	49.0
Substance Abuse	72	100	16	22.2	12	16.7	4	5.6	40	55.6
Rape or Sexual Abuse	65	100	22	33.8	11	16.9	9	13.8	23	35.4
Peer Pressure/Conflict	55	100	14	25.5	12	21.8	8	14.5	21	38.2
Problems With the Law	49	100	14	28.6	4	8.2	1	2.0	30	61.2
Physical Abuse	40	100	11	27.5	3	7.5	2	5.0	24	60.0
Move or New School	40	100	6	15.0	12	30.0	3	7.5	19	47.5
Death of Family Member/Friend	40	100	10	25.0	7	17.5	3	7.5	20	50.0
Suicide by Friend/Relative	34	100	8	23.5	7	20.6	2	5.9	17	50.0
Pregnancy	12	100	3	25.0	1	8.3	1	8.3	7	58.3
Other Reasons	150	100	21	14.0	29	19.3	13	8.7	87	58.0

NOTE: Excluded from the table are cases (70) with missing and/or unknown values for the variables shown. The category "suicide by friend/relative" includes suicide attempts.

TABLE 8-20.
Reported Adolescent Suicide Attempts by Hospital and County, Oregon, 1988-1998

County	Hospital	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Totals	638	605	516	582	678	712	743	772	813	815	797
Baker	St. Elizabeth	2	1	2	3	6	0	2	2	3	5	5
Benton	Good Samaritan-Corvallis	2	10	10	11	10	23	19	20	19	21	22
Clackamas	Kaiser Sunnyside	10	7	5	12	41	32	19	17	25	15	51
Clackamas	Legacy Meridian Park	15	13	3	5	5	12	23	13	15	12	12
Clackamas	Providence Milwaukie	2	3	2	1	2	4	4	3	8	5	4
Clackamas	Willamette Falls	11	7	10	10	15	10	9	14	11	16	18
Clatsop	Columbia Memorial	11	9	6	8	5	17	11	7	17	10	4
Clatsop	Providence Seaside	5	8	6	2	4	17	8	6	4	1	0
Coos	Bay Area	10	14	11	13	10	18	25	18	10	7	9
Coos	Coquille Valley	2	1	0	1	3	1	3	4	4	1	2
Coos	Southern Coos	3	6	3	1	1	1	4	2	0	1	0
Crook	Pioneer Memorial-Prineville	0	2	1	0	0	1	3	0	2	0	1
Curry	Curry General	3	2	0	2	2	3	5	4	1	1	2
Deschutes	Central Oregon	6	5	4	8	7	6	7	3	4	9	8
Deschutes	St. Charles	14	13	11	12	13	17	26	26	18	16	25
Douglas	Columbia Douglas	10	7	6	3	10	8	8	3	4	9	6
Douglas	Lower Umpqua	1	2	0	2	1	1	2	4	2	0	2
Douglas	Mercy Medical	27	17	8	22	18	27	15	22	8	33	38
Grant	Blue Mountain	0	2	0	1	2	1	3	1	5	5	1
Harney	Harney District	0	1	2	0	1	2	2	3	2	0	1
Hood River	Hood River Memorial	4	2	4	1	3	3	5	7	4	11	8
Jackson	Ashland Community	2	2	0	2	1	3	7	3	6	2	4
Jackson	Providence Medford	7	5	0	13	9	10	15	8	11	8	6
Jackson	Rogue Valley	23	21	17	23	8	9	22	29	28	17	41
Jefferson	Mountain View	5	8	5	5	5	0	4	1	3	4	2
Josephine	Three Rivers-Dimmick	16	15	12	12	4	14	17	11	15	20	14
Josephine	Three Rivers-Washington	1	0	2	2	3	7	8	1	5	3	4
Klamath	Merle West	27	25	15	18	13	13	16	21	20	25	37
Lake	Lake District	0	1	2	0	0	1	0	1	2	3	2
Lane	Cottage Grove	13	2	8	5	7	5	5	4	4	6	1
Lane	McKenzie-Willamette	12	20	20	30	23	7	13	14	12	23	23
Lane	Peace Harbor	1	1	5	1	1	2	3	4	3	3	2
Lane	Sacred Heart	48	46	43	53	36	31	38	35	73	69	61
Lincoln	North Lincoln	0	4	3	1	4	3	2	2	2	2	6
Lincoln	Pacific Communities	0	3	8	5	9	7	8	6	6	7	5
Linn	Albany General	3	18	8	23	18	16	16	13	8	17	12
Linn	Lebanon Community	9	5	8	7	14	12	6	4	10	6	3
Malheur	Holy Rosary	4	12	5	7	6	18	9	15	18	7	4
Marion	Salem	52	57	35	49	52	54	59	89	85	71	64
Marion	Santiam Memorial	2	4	3	5	4	0	1	3	1	7	2
Marion	Silverton	1	4	1	2	1	4	7	7	3	4	3
Marion	Oregon State	4	6	5	4	0	10	17	10	4	12	3
Morrow	Pioneer Memorial-Heppner	1	1	0	0	0	1	3	0	0	0	0
Multnomah	Eastmoreland General	8	6	2	4	4	3	3	2	6	0	0
Multnomah	Legacy Emanuel	18	23	22	16	23	53	79	101	65	88	124
Multnomah	Legacy Good Samaritan	3	3	3	3	4	6	5	11	4	4	2
Multnomah	Legacy Mount Hood	2	4	11	13	14	12	13	24	25	11	12
Multnomah	OHSU	5	3	12	5	8	12	10	6	21	14	9
Multnomah	Portland Adventist	40	40	31	12	79	45	4	5	10	12	25
Multnomah	Providence Portland	26	19	22	16	22	17	26	28	33	11	5
Multnomah	Woodland Park	7	7	12	5	4	1	2	2	1	2	0
Polk	Valley Community	2	4	7	3	5	5	6	6	6	6	8
Washington	Tillamook County	3	1	1	1	3	11	6	7	6	2	7
Umatilla	Good Shepherd Community	1	4	6	10	12	6	2	5	6	7	2
Umatilla	St. Anthony	10	4	4	11	4	7	5	8	7	8	12
Union	Grande Ronde	6	5	4	9	3	3	3	10	4	5	4
Wallowa	Wallowa Memorial	0	0	4	1	1	3	1	2	0	2	0
Wasco	Mid-Columbia	6	8	4	1	5	7	4	7	7	3	8
Washington	Tuality Forest Grove	6	9	1	3	4	2	3	5	2	2	2
Washington	Providence-St. Vincent	53	38	35	40	33	28	36	16	57	75	29
Washington	Tuality Community	17	8	10	3	8	16	16	13	22	17	12
Yamhill	Columbia Willamette Valley	16	9	9	10	9	13	7	23	9	22	7
Yamhill	Providence Newberg	5	4	5	5	3	5	6	13	11	11	10

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, 1980-1998

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+
1950	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
1960	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
1970	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
1975	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
1980	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
1981	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
1982	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	*	*
1983	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	*	*
1984	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	*	*
1985	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	*	*
1986	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	*	*
1987	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	99,308	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	*	*

* Included with ages 75-79.

TABLE A-1.

Population Distribution by Age and Sex, Oregon, 1950, 1960, 1970, 1975, 1980-1998 (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+
1988	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
1989	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
1990	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
1991	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
1992	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
1993	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
1994	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
1995	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
1996	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
1997	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
1998	3,267,550	216,270	225,755	233,772	238,498	205,409	208,599	227,758	264,229	278,458	254,656	201,902	149,998	123,399	117,429	110,808	210,610
M	1,616,250	110,610	115,817	120,141	123,211	105,811	105,501	113,540	132,531	140,697	128,089	100,799	72,906	59,060	54,968	49,739	82,830
F	1,651,300	105,660	109,938	113,631	115,287	99,598	103,098	114,218	131,698	137,761	126,567	101,103	77,092	64,339	62,461	61,069	127,780

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, 1998

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+
Total	3,267,550	216,270	225,755	233,772	146,808	91,690	205,409	208,599	227,758	264,229	278,458	254,656	201,902	149,998	123,399	117,429	110,808	93,902	116,708
Baker	16,700	961	1,193	1,270	746	342	632	836	967	1,196	1,138	1,298	1,234	1,012	808	710	771	661	925
Benton	76,600	4,356	4,626	4,770	2,974	4,506	10,360	5,318	5,397	6,120	5,909	5,261	4,009	2,927	2,168	2,212	1,986	1,560	2,141
Clackamas	323,600	20,911	22,316	24,444	15,653	8,223	16,834	18,130	21,865	26,969	31,407	30,101	22,460	15,165	11,318	10,614	9,302	7,795	10,093
Clatsop	34,700	2,186	2,365	2,512	1,620	918	1,853	1,965	2,231	2,721	2,780	2,581	2,266	1,713	1,492	1,414	1,409	1,215	1,459
Columbia	42,300	2,890	3,420	4,076	2,478	1,023	1,886	2,118	2,587	3,112	3,641	3,520	2,791	1,940	1,483	1,430	1,433	1,175	1,297
Coos	61,400	3,573	3,973	4,264	2,717	1,312	2,757	3,174	3,623	4,242	4,577	4,661	4,331	3,435	2,971	3,293	3,012	2,540	2,945
Crook	16,650	1,165	1,174	1,244	842	402	860	862	1,001	1,171	1,304	1,214	1,107	871	763	729	734	603	604
Curry	22,000	1,050	1,343	1,481	873	331	671	874	1,004	1,327	1,482	1,495	1,418	1,262	1,480	1,852	1,610	1,244	1,203
Deschutes	104,900	6,410	7,260	7,753	4,773	2,582	5,126	5,852	7,276	9,183	9,591	8,581	6,971	5,200	4,602	4,158	3,761	2,904	2,917
Douglas	100,300	6,391	6,654	7,405	4,814	2,564	4,659	5,120	5,862	6,941	7,625	7,466	6,643	5,491	4,515	5,072	4,745	3,947	4,386
Gilliam	2,100	101	175	180	77	49	54	102	152	147	157	128	156	140	119	102	81	88	92
Grant	8,000	486	617	657	424	178	289	395	478	595	611	612	589	434	363	317	326	267	362
Harney	7,600	475	575	636	415	153	294	392	486	547	559	618	577	420	324	302	271	232	324
Hood River	19,500	1,533	1,526	1,577	1,005	490	1,007	1,270	1,509	1,543	1,449	1,371	1,147	842	708	652	659	554	658
Jackson	172,800	10,659	12,161	12,995	8,342	4,497	9,117	9,066	10,146	12,793	14,293	13,594	10,897	8,447	7,340	7,747	7,278	6,216	7,212
Jefferson	17,400	1,562	1,593	1,473	921	394	994	1,150	1,052	1,110	1,162	1,041	997	759	656	773	678	588	497
Josephine	73,000	4,143	4,592	5,022	3,256	1,550	3,020	3,303	3,945	4,853	5,852	6,025	4,926	4,115	3,712	4,068	3,858	3,176	3,584
Klamath	62,000	4,154	4,249	4,613	3,046	1,884	3,758	3,462	3,713	4,446	4,935	4,583	3,985	3,325	2,670	2,628	2,358	1,951	2,240
Lake	7,400	488	583	675	415	119	275	345	451	501	527	518	543	383	348	327	342	241	319
Lane	313,000	18,944	20,334	21,328	13,284	10,723	24,563	19,658	20,575	25,477	26,718	24,021	18,971	13,746	11,234	11,754	11,052	9,112	11,506
Lincoln	43,200	2,463	3,017	3,072	1,818	731	1,640	1,928	2,443	3,242	3,331	3,075	2,690	2,440	2,335	2,736	2,461	1,887	1,891
Linn	102,200	7,040	7,204	7,515	4,905	2,848	5,838	6,036	6,385	7,360	8,028	8,099	6,751	4,937	4,117	4,059	3,938	3,297	3,843
Malheur	29,200	2,319	2,397	2,472	1,665	927	1,489	1,646	1,793	1,806	2,030	1,956	1,753	1,444	1,275	1,095	1,109	894	1,130
Marion	271,900	19,633	20,017	20,122	12,772	7,951	17,703	18,297	19,057	21,031	21,793	20,211	16,151	12,207	9,687	8,694	8,583	7,536	10,455
Morrow	9,400	720	894	931	601	230	414	470	604	653	641	602	591	464	369	307	325	305	279
Multnomah	641,900	42,494	40,715	39,835	24,458	17,970	46,526	50,270	52,295	58,348	57,342	48,342	36,654	27,292	23,288	18,947	18,427	16,439	22,258
Polk	59,500	3,852	4,250	4,606	2,719	2,091	4,293	3,120	3,491	4,377	4,741	4,293	3,511	2,790	2,215	2,386	2,296	1,974	2,495
Sherman	1,900	122	162	184	120	28	39	79	120	116	136	96	110	108	110	107	106	78	79
Tillamook	24,000	1,307	1,472	1,664	952	469	896	1,093	1,333	1,645	1,730	1,712	1,570	1,481	1,526	1,529	1,412	1,108	1,101
Umatilla	67,100	4,745	5,147	5,251	3,424	2,075	4,273	4,344	4,573	4,940	5,080	4,743	4,198	3,055	2,583	2,309	2,216	1,832	2,312
Union	24,400	1,528	1,722	1,995	1,244	814	1,627	1,220	1,446	1,838	1,947	1,824	1,522	1,182	876	829	906	814	1,066
Wallowa	7,200	400	552	606	355	123	244	321	408	568	494	541	474	411	343	358	333	289	380
Wasco	22,600	1,507	1,586	1,765	1,089	504	938	1,131	1,347	1,627	1,803	1,710	1,469	1,095	965	1,043	972	928	1,121
Washington	397,600	29,961	29,237	28,567	17,899	9,883	25,098	30,242	32,420	35,327	37,013	32,481	23,549	15,785	11,707	10,211	9,329	8,129	10,762
Wheeler	1,600	81	99	118	84	29	45	63	60	97	114	131	134	110	96	96	90	67	86
Yamhill	81,900	5,660	6,555	6,694	4,028	2,777	5,337	4,947	5,663	6,260	6,518	6,151	4,757	3,570	2,833	2,569	2,639	2,256	2,686

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, 1998 (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+
Total	1,616,250	110,610	115,817	120,141	75,917	47,294	105,811	105,501	113,540	132,531	140,697	128,089	100,799	72,906	59,060	54,968	49,739	40,708	42,122
Baker	8,378	497	610	698	394	174	337	447	468	630	563	662	640	478	412	332	378	301	357
Benton	38,780	2,242	2,408	2,446	1,498	2,355	5,808	2,873	2,691	3,036	3,038	2,620	1,988	1,431	1,034	1,037	911	654	710
Clackamas	160,135	10,751	11,472	12,603	8,095	4,356	8,730	8,998	10,623	13,235	15,545	15,360	11,381	7,563	5,511	4,979	4,140	3,337	3,456
Clatsop	17,264	1,081	1,262	1,329	812	457	991	1,036	1,108	1,360	1,449	1,327	1,132	834	700	669	626	551	540
Columbia	21,323	1,456	1,774	2,114	1,285	520	979	1,064	1,257	1,547	1,847	1,856	1,468	996	732	687	663	538	540
Coos	30,566	1,802	2,054	2,190	1,410	695	1,447	1,604	1,808	2,106	2,318	2,361	2,121	1,714	1,463	1,654	1,483	1,150	1,186
Crook	8,450	588	626	674	475	209	436	425	504	588	682	630	585	394	397	348	335	291	263
Curry	10,931	557	696	724	432	170	330	442	479	691	723	720	695	597	744	959	813	632	527
Deschutes	52,529	3,253	3,757	4,003	2,573	1,455	2,669	2,848	3,483	4,591	4,931	4,190	3,498	2,553	2,286	2,015	1,857	1,390	1,177
Douglas	49,973	3,251	3,378	3,827	2,551	1,362	2,366	2,518	2,905	3,488	3,857	3,779	3,330	2,676	2,249	2,516	2,267	1,850	1,803
Gilliam	1,051	57	97	94	45	25	29	50	70	77	79	54	74	74	54	58	36	40	38
Grant	4,055	244	315	353	213	77	162	199	229	312	315	323	298	229	182	164	155	134	151
Harney	3,823	254	306	311	204	80	144	203	231	288	280	315	300	213	162	143	140	124	125
Hood River	10,118	753	745	779	551	298	562	721	834	873	788	741	589	420	350	310	310	253	241
Jackson	84,975	5,445	6,217	6,675	4,245	2,243	4,671	4,520	4,915	6,234	7,241	6,764	5,412	4,174	3,539	3,757	3,424	2,811	2,688
Jefferson	8,803	809	798	755	484	195	520	604	547	580	602	538	476	350	308	413	334	280	210
Josephine	35,711	2,112	2,390	2,627	1,722	828	1,513	1,605	1,908	2,316	2,871	2,979	2,370	1,990	1,793	1,936	1,835	1,461	1,455
Klamath	31,473	2,109	2,207	2,450	1,632	1,013	2,077	1,763	1,856	2,192	2,543	2,357	2,065	1,599	1,333	1,314	1,147	916	900
Lake	3,735	258	304	340	216	60	138	184	220	256	268	263	289	175	173	182	160	120	129
Lane	153,337	9,790	10,329	10,943	6,894	5,191	12,499	9,898	10,004	12,421	13,464	11,932	9,587	6,609	5,324	5,396	4,922	3,964	4,170
Lincoln	20,950	1,276	1,529	1,538	922	366	825	935	1,183	1,609	1,670	1,476	1,273	1,114	1,101	1,317	1,175	843	798
Linn	50,649	3,560	3,749	3,906	2,505	1,488	3,034	3,012	3,175	3,723	3,992	4,088	3,351	2,425	1,989	1,899	1,786	1,486	1,481
Malheur	14,596	1,175	1,216	1,268	866	513	763	868	1,009	855	1,050	978	866	684	612	525	531	414	403
Marion	135,504	9,977	10,227	10,292	6,747	4,187	9,447	9,772	9,949	10,954	11,193	10,044	7,902	5,842	4,440	3,953	3,698	3,192	3,688
Morrow	4,835	368	452	529	311	119	220	236	318	335	348	304	299	222	200	146	166	146	116
Multnomah	313,790	21,776	20,755	20,315	12,287	9,005	23,217	25,341	26,348	29,866	29,257	24,312	18,078	13,064	10,928	8,294	7,546	6,433	6,968
Polk	28,996	1,954	2,225	2,370	1,450	1,016	2,134	1,553	1,689	2,149	2,393	2,121	1,732	1,331	1,047	1,051	1,029	830	922
Sherman	969	56	89	98	64	18	20	42	62	57	68	53	51	51	59	56	54	37	34
Tillamook	11,892	707	762	855	483	270	480	550	668	832	862	888	709	677	750	774	658	482	485
Umatilla	34,244	2,424	2,669	2,729	1,777	1,167	2,410	2,398	2,466	2,552	2,605	2,400	2,111	1,485	1,234	1,084	1,023	812	898
Union	12,125	783	910	1,046	622	399	856	590	674	948	997	915	773	588	435	415	397	381	396
Wallowa	3,607	194	272	321	172	67	126	160	198	306	259	274	250	203	161	194	161	132	157
Wasco	11,064	775	798	935	550	264	471	539	648	823	882	859	796	503	433	516	436	415	421
Washington	195,690	15,337	14,989	14,554	9,275	5,139	12,573	14,988	16,106	17,539	18,274	16,366	11,757	7,833	5,522	4,615	3,908	3,258	3,657
Wheeler	805	43	50	53	51	18	21	31	24	46	54	68	62	58	51	45	58	30	42
Yamhill	41,124	2,896	3,380	3,397	2,104	1,495	2,806	2,484	2,883	3,116	3,389	3,172	2,491	1,757	1,352	1,215	1,177	1,020	990

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, 1998 (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+
Total	1,651,300	105,660	109,938	113,631	70,891	44,396	99,598	103,098	114,218	131,698	137,761	126,567	101,103	77,092	64,339	62,461	61,069	53,194	74,586
Baker	8,322	464	583	572	352	168	295	389	499	566	575	636	594	534	396	378	393	360	568
Benton	37,820	2,114	2,218	2,324	1,476	2,151	4,552	2,445	2,706	3,084	2,871	2,641	2,021	1,496	1,134	1,175	1,075	906	1,431
Clackamas	163,465	10,160	10,844	11,841	7,558	3,867	8,104	9,132	11,242	13,734	15,862	14,741	11,079	7,602	5,807	5,635	5,162	4,458	6,637
Clatsop	17,436	1,105	1,103	1,183	808	461	862	929	1,123	1,361	1,331	1,254	1,134	879	792	745	783	664	919
Columbia	20,977	1,434	1,646	1,962	1,193	503	907	1,054	1,330	1,565	1,794	1,664	1,323	944	751	743	770	637	757
Coos	30,834	1,771	1,919	2,074	1,307	617	1,310	1,570	1,815	2,136	2,259	2,300	2,210	1,721	1,508	1,639	1,529	1,390	1,759
Crook	8,200	577	548	570	367	193	424	437	497	583	622	584	522	477	366	381	399	312	341
Curry	11,069	493	647	757	441	161	341	432	525	636	759	775	723	665	736	893	797	612	676
Deschutes	52,371	3,157	3,503	3,750	2,200	1,127	2,457	3,004	3,793	4,592	4,660	4,391	3,473	2,647	2,316	2,143	1,904	1,514	1,740
Douglas	50,327	3,140	3,276	3,578	2,263	1,202	2,293	2,602	2,957	3,453	3,768	3,687	3,313	2,815	2,266	2,556	2,478	2,097	2,583
Gilliam	1,049	44	78	86	32	24	25	52	82	70	78	74	82	66	65	44	45	48	54
Grant	3,945	242	302	304	211	101	127	196	249	283	296	289	291	205	181	153	171	133	211
Harney	3,777	221	269	325	211	73	150	189	255	259	279	303	277	207	162	159	131	108	199
Hood River	9,382	780	781	798	454	192	445	549	675	670	661	630	558	422	358	342	349	301	417
Jackson	87,825	5,214	5,944	6,320	4,097	2,254	4,446	4,546	5,231	6,559	7,052	6,830	5,485	4,273	3,801	3,990	3,854	3,405	4,524
Jefferson	8,597	753	795	718	437	199	474	546	505	530	560	503	521	409	348	360	344	308	287
Josephine	37,289	2,031	2,202	2,395	1,534	722	1,507	1,698	2,037	2,537	2,981	3,046	2,556	2,125	1,919	2,132	2,023	1,715	2,129
Klamath	30,527	2,045	2,042	2,163	1,414	871	1,681	1,699	1,857	2,254	2,392	2,226	1,920	1,726	1,337	1,314	1,211	1,035	1,340
Lake	3,665	230	279	335	199	59	137	161	231	245	259	255	254	208	175	145	182	121	190
Lane	159,663	9,154	10,005	10,385	6,390	5,532	12,064	9,760	10,571	13,056	13,254	12,089	9,384	7,137	5,910	6,358	6,130	5,148	7,336
Lincoln	22,250	1,187	1,488	1,534	896	365	815	993	1,260	1,633	1,661	1,599	1,417	1,326	1,234	1,419	1,286	1,044	1,093
Linn	51,551	3,480	3,455	3,609	2,400	1,360	2,804	3,024	3,210	3,637	4,036	4,011	3,400	2,512	2,128	2,160	2,152	1,811	2,362
Malheur	14,604	1,144	1,181	1,204	799	414	726	778	784	951	980	978	887	760	663	570	578	480	727
Marion	136,396	9,656	9,790	9,830	6,025	3,764	8,256	8,525	9,108	10,077	10,600	10,167	8,249	6,365	5,247	4,741	4,885	4,344	6,767
Morrow	4,565	352	442	402	290	111	194	234	286	318	293	298	292	242	169	161	159	159	163
Multnomah	328,110	20,718	19,960	19,520	12,171	8,965	23,309	24,929	25,947	28,482	28,085	24,030	18,576	14,228	12,360	10,653	10,881	10,006	15,290
Polk	30,504	1,898	2,025	2,236	1,269	1,075	2,159	1,567	1,802	2,228	2,348	2,172	1,779	1,459	1,168	1,335	1,267	1,144	1,573
Sherman	931	66	73	86	56	10	19	37	58	59	68	43	59	57	51	51	52	41	45
Tillamook	12,108	600	710	809	469	199	416	543	665	813	868	824	861	804	776	755	754	626	616
Umatilla	32,856	2,321	2,478	2,522	1,647	908	1,863	1,946	2,107	2,388	2,475	2,343	2,087	1,570	1,349	1,225	1,193	1,020	1,414
Union	12,275	745	812	949	622	415	771	630	772	890	950	909	749	594	441	414	509	433	670
Wallowa	3,593	206	280	285	183	56	118	161	210	262	235	267	224	208	182	164	172	157	223
Wasco	11,536	732	788	830	539	240	467	592	699	804	921	851	673	592	532	527	536	513	700
Washington	201,910	14,624	14,248	14,013	8,624	4,744	12,525	15,254	16,314	17,788	18,739	16,115	11,792	7,952	6,185	5,596	5,421	4,871	7,105
Wheeler	795	38	49	65	33	11	24	32	36	51	60	63	72	52	45	51	32	37	44
Yamhill	40,776	2,764	3,175	3,297	1,924	1,282	2,531	2,463	2,780	3,144	3,129	2,979	2,266	1,813	1,481	1,354	1,462	1,236	1,696

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

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

Numbers in Thousands

Year	Sex	Total	Age 0-4	Age 5-17	Age 18-24	Age 25-64	Age 65+
2000	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
2005	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
2015	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
2025	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>

Appendix B: Technical Notes – Definitions

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.¹

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.

Technical Notes — Methodology

"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.

Technical Notes — Step-by-Step Instructions

"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.¹

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.

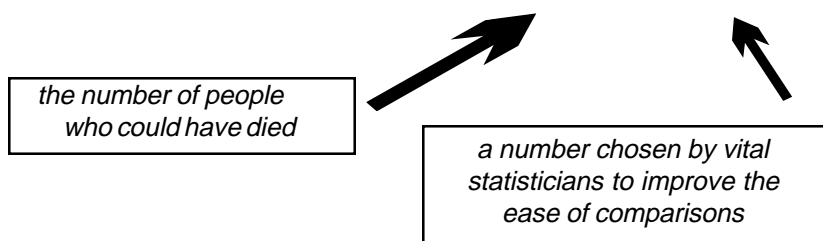
STEP 2: MAKING THE NUMBER MEANINGFUL WITH RATES AND RATIOS

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 ± 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
Crude Death Rate	9.1	9.5
Age-Specific Death Rates		
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.

Technical Notes — Formulas

GENERAL:

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

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

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

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

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

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

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

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

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.

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

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

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

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

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:

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

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

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

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

CALCULATING CONFIDENCE INTERVALS FOR RATES:

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 ± 2.16

Benton low birthweight rate is 39.48 ± 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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