

FETAL AND INFANT DEATHS



"Priest, Yukon River"
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INTRODUCTION

FETAL DEATHS

A fetal death is defined as death before the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy; 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.

Alaska Statute 18.50.240 requires the filing of a fetal death certificate for each fetal death that occurs in the state

when the pregnancy has lasted at least twenty weeks. The filing of certificates for fetal deaths which occur prior to the twentieth week of pregnancy is optional. This chapter includes information only for fetal deaths in which either the estimated gestation or the calculated gestation (last menstrual date subtracted from the date of delivery) is at least twenty weeks.

INFANT DEATHS AND MORTALITY RATES

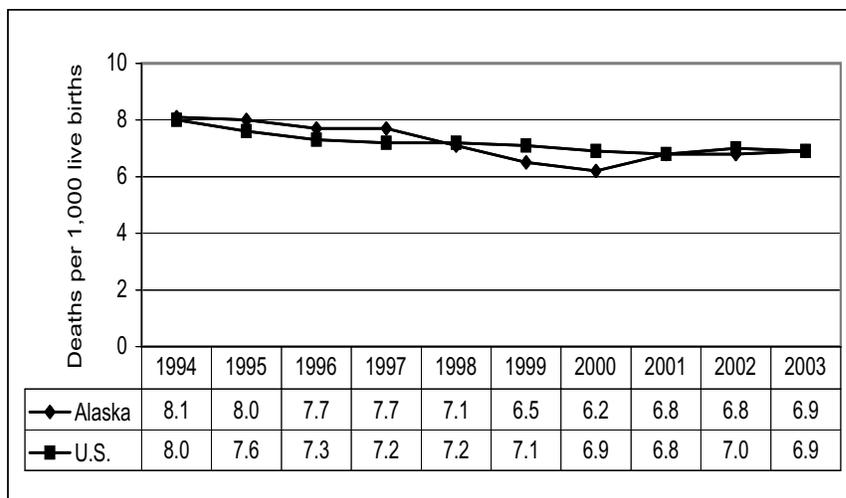
Infant deaths are defined as deaths that occur after a live birth and before an infant’s first birthday. Infant mortality may be calculated by either of two methods: a birth cohort or a death cohort. A birth cohort includes all infants born in the same calendar year who die within one year of their birth. A death cohort includes all infant deaths that occur in a given calendar year, regardless of the birth year.

The birth cohort method is more relevant for calculating infant mortality rates because it calculates a rate for a specific group of infants, whereas the death cohort method calculates a rate based on comparing deaths in one year against births in the same year. The death cohort calculation includes infants who died in the report year (2003) but may have been born in the previous year (2002), and excludes infants who were born in the report year but die in the following year.

The total number of infant deaths (death cohort) to resident mothers in 2003 was 70. This is a 27.3 percent increase from the 55 infant deaths in 2002 and a 14.6 percent decrease from the 82 infant deaths in 1994. The total number of infant deaths (birth cohort) to resident mothers in 2003 was 63, a 6.8 percent increase from the 59 infant deaths in 2002 and a 13.7 percent decrease from the 73 infant deaths in 1994.

A few additional (or less) infant deaths can cause large fluctuations in the infant mortality rate (IMR) from one year to the next. Therefore, Alaska’s annual IMR is calculated on a three-year moving average in order to provide a more reliable basis for comparison. The 2001 to 2003 three-year average IMR (death cohort) was 6.9 deaths per 1,000 live births, a 1.5 percent increase from the rate of 6.8 for 2000 to 2002. The U.S. infant mortality rate in 2003 was 6.9 deaths per 1,000 live births, which is slightly lower than the rate of 7.0 in 2002.

FIGURE 8 INFANT MORTALITY RATES: U.S.* AND ALASKA, 1994–2003



Note: Alaska rates are three-year moving averages. U.S. rates are single year rates.

When discussing infant mortality, a distinction is made between neonatal mortality (deaths prior to the 28th day of life) and postneonatal mortality (deaths from the 28th day up to one year). Neonatal deaths are frequently associated with circumstances related to pregnancy and delivery while postneonatal deaths are often associated with living conditions. Alaska’s three-year neonatal mortality rate has generally been lower than the neonatal mortality rate for the United States (Figure 9), while its three-year postneonatal mortality rate has been higher (Figure 10). The 2001 to 2003 three-year average neonatal mortality rate was 3.0 deaths per 1,000 live births, which is 3.2 percent lower than the previous three-year period. The U.S. neonatal mortality rate was 4.6 deaths per 1,000 live births, down slightly from the rate of 4.7 in 2002.

The 2001 to 2003 three-year average postneonatal mortality rate was 4.0 deaths per 1,000 live births, up 5.3 percent from 3.8 deaths per 1,000 live births for 2000 to 2002. The U.S. postneonatal mortality rate was 2.2 deaths per 1,000 live births, a slight decrease from the rate of 2.3 in 2002. Since 1994, both the Alaska three-year neonatal and postneonatal mortality rates have declined 23.1 and 4.8 percent, respectively.

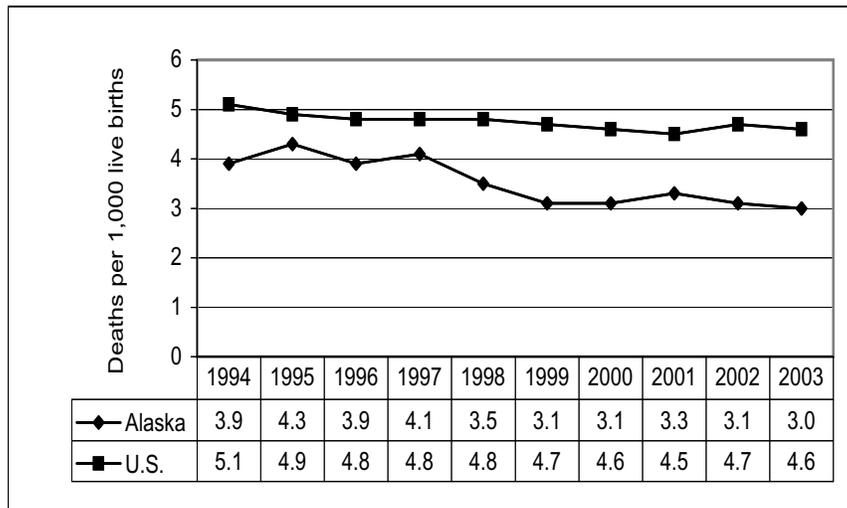
*U.S. rates provided by the United States Department of Health and Human Services (US DHHS), Centers for Disease Control and Prevention (CDC), National Center for Health Statistics (NCHS), Office of Analysis, Epidemiology, (OAE): Compressed Mortality File (CMF) compiled from CMF 1968–1988, Series 20, No. 2A 2000, CMF 1989–1998, Series 20, No. 2E 2003 and CMF 1999–2002, Series 20, No. 2H 2004 on CDC WONDER On-line Database; "Deaths: Final Data for 2003"; National Vital Statistics Report, Vol. 54, No. 13, April 19, 2006, p. 11.

Tables 8 and 9 (pages 65 and 66) show the number of infant deaths by cause of death. The causes of death are based on the 130 selected causes of infant death tabulation list in ICD-10. From 1979 to 1998, causes of death were classified using ICD-9. Publications or tables showing mortality data under ICD-10 may differ substantially from those under ICD-9. Cause-of-death data across ICD revisions are not directly comparable, unless adjustments are made for the coding and classification changes. For further discussion on the implications of changing ICD revisions, please refer to Appendix C.

The remaining tables of this chapter show the annual occurrences of fetal and infant deaths to Alaska residents during 2002 and for the three-year period, 2000 through 2002.

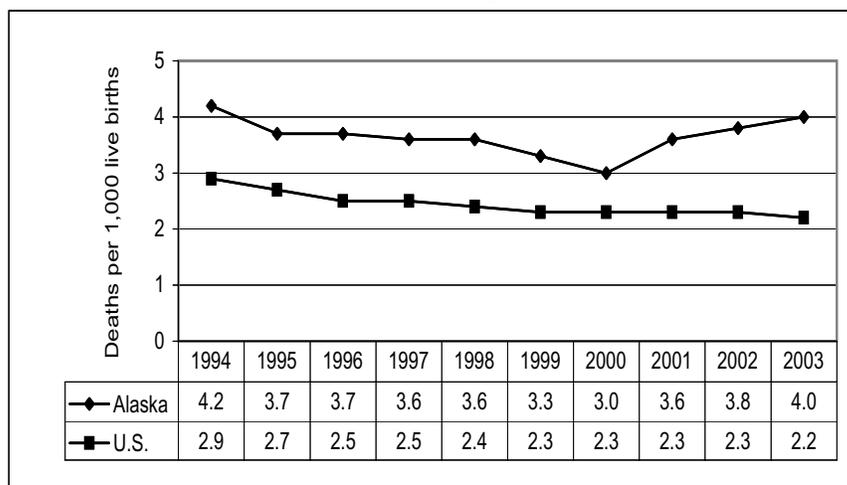
Annual rates and three-year rates for the state as a whole, its 27 census areas or boroughs, and 12 Native Regional Corporations are shown by the race and residence of the infant. Note that the infant's race is the same as the mother's race. The table of state totals provides birth information for the white, black, Native, and Asian/Pacific Islander races. However, due to the low number of reportable events for some census areas, Native Regional Corporations, or boroughs, fetal and infant deaths by these areas are only shown for the two predominant races in Alaska: Native and white.

FIGURE 9 NEONATAL MORTALITY RATES: U.S.* AND ALASKA, 1994–2003



Note: Alaska rates are three-year moving averages. U.S. rates are single year rates.

FIGURE 10 POSTNEONATAL MORTALITY RATES: U.S.* AND ALASKA, 1994–2003



Note: Alaska rates are three-year moving averages. U.S. rates are single year rates.

*U.S. rates provided by the United States Department of Health and Human Services (US DHHS), Centers for Disease Control and Prevention (CDC), National Center for Health Statistics (NCHS), Office of Analysis, Epidemiology, (OAE): Compressed Mortality File (CMF) compiled from CMF 1968–1988, Series 20, No. 2A 2000, CMF 1989–1998, Series 20, No. 2E 2003 and CMF 1999–2002, Series 20, No. 2H 2004 on CDC WONDER On-line Database; "Deaths: Final Data for 2003"; National Vital Statistics Report, Vol. 54, No. 13, April 19, 2006, p. 11.

**TABLE 4 FETAL AND INFANT DEATHS (DEATH COHORT) BY RACE:
ALASKA, 2003 AND 2001-2003**

FETAL/INFANT DEATHS	TOTAL				WHITE				NATIVE			
	2003 DEATHS	2003 RATE	01-03 DEATHS	01-03 RATE	2003 DEATHS	2003 RATE	01-03 DEATHS	01-03 RATE	2003 DEATHS	2003 RATE	01-03 DEATHS	01-03 RATE
FETAL DEATHS	59	5.8	150	5.0	35	5.5	76	4.0	6	2.4 *	27	3.7
INFANT DEATHS												
NEONATAL DEATHS												
MALE	21	4.0	49	3.2	12	3.7	35	3.6	6	4.6 *	11	2.9
FEMALE	11	2.2	40	2.7	8	2.6 *	23	2.5	2	1.7 *	10	2.8
TOTAL	32	3.2	89	3.0	20	3.1	58	3.1	8	3.3 *	21	2.9
POSTNEONATAL DEATHS												
MALE	19	3.7	59	3.8	9	2.8 *	26	2.7	8	6.1 *	27	7.1
FEMALE	19	3.9	60	4.1	8	2.6 *	21	2.3	7	6.0 *	30	8.4
TOTAL	38	3.8	119	4.0	17	2.7	47	2.5	15	6.1	57	7.8
TOTAL INFANT DEATHS												
MALE	40	7.7	108	7.0	21	6.4	61	6.3	14	10.8	38	10.0
FEMALE	30	6.1	100	6.8	16	5.1	44	4.8	9	7.8 *	40	11.2
TOTAL	70	6.9	208	6.9	37	5.8	105	5.5	23	9.4	78	10.6

FETAL/INFANT DEATHS	TOTAL				BLACK				ASIAN/PI			
	2003 DEATHS	2003 RATE	01-03 DEATHS	01-03 RATE	2003 DEATHS	2003 RATE	01-03 DEATHS	01-03 RATE	2003 DEATHS	2003 RATE	01-03 DEATHS	01-03 RATE
FETAL DEATHS	59	5.8	150	5.0	3	7.6 *	10	7.9	6	8.5 *	15	7.4
INFANT DEATHS												
NEONATAL DEATHS												
MALE	21	4.0	49	3.2	1	4.9 *	1	1.6 *	2	5.7 *	2	2.0 *
FEMALE	11	2.2	40	2.7	1	5.3 *	2	3.2 *	0	0.0	5	4.9 *
TOTAL	32	3.2	89	3.0	2	5.1 *	3	2.4 *	2	2.9 *	7	3.5 *
POSTNEONATAL DEATHS												
MALE	19	3.7	59	3.8	1	4.9 *	2	3.1 *	1	2.8 *	4	4.0 *
FEMALE	19	3.9	60	4.1	1	5.3 *	3	4.9 *	3	8.6 *	6	5.9 *
TOTAL	38	3.8	119	4.0	2	5.1 *	5	4.0 *	4	5.7 *	10	4.9
TOTAL INFANT DEATHS												
MALE	40	7.7	108	7.0	2	9.9 *	3	4.7 *	3	8.5 *	6	6.0 *
FEMALE	30	6.1	100	6.8	2	10.5 *	5	8.1 *	3	8.6 *	11	10.8
TOTAL	70	6.9	208	6.9	4	10.2 *	8	6.4 *	6	8.6 *	17	8.4

* Rates based on fewer than 10 occurrences are statistically unreliable and should be used with caution.

**TABLE 5 FETAL AND INFANT DEATHS (BIRTH COHORT) BY RACE:
ALASKA, 2003 AND 2001–2003**

FETAL / INFANT DEATHS	TOTAL				WHITE				NATIVE			
	2003 DEATHS	2003 RATE	01–03 DEATHS	01–03 RATE	2003 DEATHS	2003 RATE	01–03 DEATHS	01–03 RATE	2003 DEATHS	2003 RATE	01–03 DEATHS	01–03 RATE
FETAL DEATHS	59	5.8	153	5.1	35	5.5	77	4.0	6	2.4 *	27	3.7
INFANT DEATHS												
NEONATAL DEATHS												
MALE	18	3.5	45	2.9	9	2.8 *	31	3.2	7	5.4 *	12	3.2
FEMALE	9	1.8 *	36	2.5	6	1.9 *	19	2.1	2	1.7 *	10	2.8
TOTAL	27	2.7	81	2.7	15	2.3	50	2.6	9	3.7 *	22	3.0
POSTNEONATAL DEATHS												
MALE	15	2.9	52	3.4	6	1.8 *	21	2.2	9	6.9 *	27	7.1
FEMALE	21	4.3	56	3.8	10	3.2	21	2.3	9	7.8 *	28	7.8
TOTAL	36	3.6	108	3.6	16	2.5	42	2.2	18	7.3	55	7.5
TOTAL INFANT DEATHS												
MALE	33	6.4	97	6.3	15	4.6	52	5.3	16	12.3	39	10.3
FEMALE	30	6.1	92	6.3	16	5.1	40	4.3	11	9.5	38	10.7
TOTAL	63	6.2	189	6.3	31	4.9	92	4.9	27	11.0	77	10.5

FETAL / INFANT DEATHS	TOTAL				BLACK				ASIAN/PI			
	2003 DEATHS	2003 RATE	01–03 DEATHS	01–03 RATE	2003 DEATHS	2003 RATE	01–03 DEATHS	01–03 RATE	2003 DEATHS	2003 RATE	01–03 DEATHS	01–03 RATE
FETAL DEATHS	59	5.8	153	5.1	3	7.6 *	10	7.9	6	8.5 *	15	7.4
INFANT DEATHS												
NEONATAL DEATHS												
MALE	18	3.5	45	2.9	1	4.9 *	1	1.6 *	1	2.8 *	1	1.0 *
FEMALE	9	1.8 *	36	2.5	1	5.3 *	2	3.2 *	0	0.0	5	4.9 *
TOTAL	27	2.7	81	2.7	2	5.1 *	3	2.4 *	1	1.4 *	6	3.0 *
POSTNEONATAL DEATHS												
MALE	15	2.9	52	3.4	0	0.0	1	1.6 *	0	0.0	3	3.0 *
FEMALE	21	4.3	56	3.8	1	5.3 *	2	3.2 *	1	2.9 *	5	4.9 *
TOTAL	36	3.6	108	3.6	1	2.5 *	3	2.4 *	1	1.4 *	8	4.0 *
TOTAL INFANT DEATHS												
MALE	33	6.4	97	6.3	1	4.9 *	2	3.1 *	1	2.8 *	4	4.0 *
FEMALE	30	6.1	92	6.3	2	10.5 *	4	6.5 *	1	2.9 *	10	9.8
TOTAL	63	6.2	189	6.3	3	7.6 *	6	4.8 *	2	2.9 *	14	6.9

* Rates based on fewer than 10 occurrences are statistically unreliable and should be used with caution.

TABLE 6 FETAL AND INFANT DEATHS (DEATH COHORT) BY RESIDENCE AND RACE: ALASKA, 2003 AND 2001-2003

CENSUS AREA/BOROUGH	TOTAL				WHITE				NATIVE			
	2003 DEATHS	2003 RATE	01-03 DEATHS	01-03 RATE	2003 DEATHS	2003 RATE	01-03 DEATHS	01-03 RATE	2003 DEATHS	2003 RATE	01-03 DEATHS	01-03 RATE
ALEUTIANS EAST BOROUGH												
FETAL DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
POSTNEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL INFANT DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
ALEUTIANS WEST CENSUS AREA												
FETAL DEATHS	1	37.0*	1	8.7*	0	0.0	0	0.0	1	125.0*	1	26.3*
INFANT DEATHS												
NEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
POSTNEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL INFANT DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MUNICIPALITY OF ANCHORAGE												
FETAL DEATHS	22	5.1	54	4.3	14	5.0	24	2.9	0	0.0	4	2.2*
INFANT DEATHS												
NEONATAL	6	1.4*	28	2.2	4	1.4*	22	2.6	1	1.5*	2	1.1*
POSTNEONATAL	13	3.0	43	3.4	6	2.1*	19	2.3	3	4.5*	15	8.3
TOTAL INFANT DEATHS	19	4.4	71	5.6	10	3.6	41	4.9	4	5.9*	17	9.4
BETHEL CENSUS AREA												
FETAL DEATHS	3	7.1*	12	9.3	0	0.0	3	33.0*	0	0.0	4	3.4*
INFANT DEATHS												
NEONATAL	3	7.2*	7	5.5*	0	0.0	0	0.0	3	7.8*	7	6.0*
POSTNEONATAL	1	2.4*	11	8.6	0	0.0	0	0.0	1	2.6*	11	9.4
TOTAL INFANT DEATHS	4	9.5*	18	14.1	0	0.0	0	0.0	4	10.3*	18	15.3
BRISTOL BAY BOROUGH												
FETAL DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
POSTNEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL INFANT DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
DENALI BOROUGH												
FETAL DEATHS	1	34.5*	1	13.3*	1	40.0*	1	15.2*	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
POSTNEONATAL	1	35.7*	1	13.5*	1	41.7*	1	15.4*	0	0.0	0	0.0
TOTAL INFANT DEATHS	1	35.7*	1	13.5*	1	41.7*	1	15.4*	0	0.0	0	0.0
DILLINGHAM CENSUS AREA												
FETAL DEATHS	0	0.0	2	7.3*	0	0.0	0	0.0	0	0.0	2	8.7*
INFANT DEATHS												
NEONATAL	0	0.0	2	7.4*	0	0.0	0	0.0	0	0.0	2	8.8*
POSTNEONATAL	1	12.5*	2	7.4*	0	0.0	0	0.0	1	13.9*	2	8.8*
TOTAL INFANT DEATHS	1	12.5*	4	14.8*	0	0.0	0	0.0	1	13.9*	4	17.6*
FAIRBANKS NORTH STAR BOROUGH												
FETAL DEATHS	10	6.3	26	5.7	7	5.7*	18	5.1	0	0.0	1	2.3*
INFANT DEATHS												
NEONATAL	9	5.8*	13	2.8	6	4.9*	9	2.6*	1	7.2*	2	4.6*
POSTNEONATAL	5	3.2*	15	3.3	5	4.1*	9	2.6*	0	0.0	2	4.6*
TOTAL INFANT DEATHS	14	8.9	28	6.1	11	9.0	18	5.2	1	7.2*	4	9.1*
HAINES BOROUGH												
FETAL DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
POSTNEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL INFANT DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

* Rates based on fewer than 10 occurrences are statistically unreliable and should be used with caution.

TABLE 6 FETAL AND INFANT DEATHS (DEATH COHORT) BY RESIDENCE AND RACE: ALASKA, 2003 AND 2001–2003

CENSUS AREA/BOROUGH	TOTAL				WHITE				NATIVE			
	2003 DEATHS	2003 RATE	01–03 DEATHS	01–03 RATE	2003 DEATHS	2003 RATE	01–03 DEATHS	01–03 RATE	2003 DEATHS	2003 RATE	01–03 DEATHS	01–03 RATE
JUNEAU BOROUGH												
FETAL DEATHS	0	0.0	1	0.8*	0	0.0	0	0.0	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	2	5.0*	7	5.7*	1	3.6*	5	5.9*	0	0.0	0	0.0
POSTNEONATAL	0	0.0	5	4.1*	0	0.0	4	4.7*	0	0.0	1	3.8*
TOTAL INFANT DEATHS	2	5.0*	12	9.8	1	3.6*	9	10.6*	0	0.0	1	3.8*
KENAI PENINSULA BOROUGH												
FETAL DEATHS	5	7.8*	9	4.7*	3	5.2*	5	3.0*	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	2	3.1*	6	3.1*	2	3.5*	6	3.6*	0	0.0	0	0.0
POSTNEONATAL	5	7.8*	8	4.2*	4	7.0*	7	4.2*	1	18.9*	1	5.3*
TOTAL INFANT DEATHS	7	10.9*	14	7.3	6	10.5*	13	7.8	1	18.9*	1	5.3*
KETCHIKAN GATEWAY BOROUGH												
FETAL DEATHS	3	16.6*	6	11.4*	2	16.0*	5	14.1*	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	0	0.0	2	3.8*	0	0.0	1	2.9*	0	0.0	0	0.0
POSTNEONATAL	0	0.0	1	1.9*	0	0.0	1	2.9*	0	0.0	0	0.0
TOTAL INFANT DEATHS	0	0.0	3	5.7*	0	0.0	2	5.7*	0	0.0	0	0.0
KODIAK ISLAND BOROUGH												
FETAL DEATHS	0	0.0	1	1.6*	0	0.0	1	2.6*	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	1	4.9*	3	4.8*	1	8.1*	2	5.3*	0	0.0	1	10.5*
POSTNEONATAL	1	4.9*	2	3.2*	0	0.0	1	2.6*	0	0.0	0	0.0
TOTAL INFANT DEATHS	2	9.8*	5	7.9*	1	8.1*	3	7.9*	0	0.0	1	10.5*
LAKE AND PENINSULA BOROUGH												
FETAL DEATHS	0	0.0	2	30.8*	0	0.0	0	0.0	0	0.0	2	47.6*
INFANT DEATHS												
NEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
POSTNEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL INFANT DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MATANUSKA-SUSITNA BOROUGH												
FETAL DEATHS	6	6.6*	13	5.1	6	7.5*	12	5.3	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	5	5.5*	11	4.3	4	5.0*	9	4.0*	1	13.9*	1	5.0*
POSTNEONATAL	2	2.2*	7	2.7*	1	1.3*	3	1.3*	1	13.9*	4	19.9*
TOTAL INFANT DEATHS	7	7.7*	18	7.0	5	6.3*	12	5.3	2	27.8*	5	24.9*
NOME CENSUS AREA												
FETAL DEATHS	4	20.1*	7	10.8*	1	43.5*	1	13.7*	3	17.2*	6	10.5*
INFANT DEATHS												
NEONATAL	1	5.1*	1	1.6*	0	0.0	0	0.0	1	5.8*	1	1.8*
POSTNEONATAL	4	20.5*	7	10.9*	0	0.0	0	0.0	4	23.4*	7	12.4*
TOTAL INFANT DEATHS	5	25.6*	8	12.5*	0	0.0	0	0.0	5	29.2*	8	14.2*
NORTH SLOPE BOROUGH												
FETAL DEATHS	1	6.2*	1	2.0*	0	0.0	0	0.0	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	2	12.4*	3	6.1*	1	100.0*	1	27.8*	1	7.0*	2	4.7*
POSTNEONATAL	0	0.0	3	6.1*	0	0.0	0	0.0	0	0.0	3	7.1*
TOTAL INFANT DEATHS	2	12.4*	6	12.3*	1	100.0*	1	27.8*	1	7.0*	5	11.8*
NORTHWEST ARCTIC BOROUGH												
FETAL DEATHS	1	6.4*	4	8.3*	0	0.0	1	31.3*	1	6.7*	3	6.7*
INFANT DEATHS												
NEONATAL	0	0.0	1	2.1*	0	0.0	0	0.0	0	0.0	1	2.3*
POSTNEONATAL	2	12.9*	5	10.5*	0	0.0	1	32.3*	2	13.4*	4	9.0*
TOTAL INFANT DEATHS	2	12.9*	6	12.6*	0	0.0	1	32.3*	2	13.4*	5	11.3*

* Rates based on fewer than 10 occurrences are statistically unreliable and should be used with caution.

TABLE 6 FETAL AND INFANT DEATHS (DEATH COHORT) BY RESIDENCE AND RACE: ALASKA, 2003 AND 2001–2003

CENSUS AREA/BOROUGH	TOTAL				WHITE				NATIVE			
	2003 DEATHS	2003 RATE	01–03 DEATHS	01–03 RATE	2003 DEATHS	2003 RATE	01–03 DEATHS	01–03 RATE	2003 DEATHS	2003 RATE	01–03 DEATHS	01–03 RATE
PRINCE OF WALES-OUTER KETCHIKAN CENSUS AREA												
FETAL DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
POSTNEONATAL	0	0.0	1	5.1*	0	0.0	0	0.0	0	0.0	1	9.5*
TOTAL INFANT DEATHS	0	0.0	1	5.1*	0	0.0	0	0.0	0	0.0	1	9.5*
SITKA BOROUGH												
FETAL DEATHS	0	0.0	3	8.4*	0	0.0	2	8.2*	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
POSTNEONATAL	0	0.0	1	2.8*	0	0.0	1	4.1*	0	0.0	0	0.0
TOTAL INFANT DEATHS	0	0.0	1	2.8*	0	0.0	1	4.1*	0	0.0	0	0.0
SKAGWAY-HOONAH-ANGOON CENSUS AREA												
FETAL DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
POSTNEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL INFANT DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SOUTHEAST FAIRBANKS CENSUS AREA												
FETAL DEATHS	0	0.0	2	7.6*	0	0.0	2	9.9*	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	1	12.0*	2	7.6*	1	17.5*	1	5.0*	0	0.0	1	18.5*
POSTNEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL INFANT DEATHS	1	12.0*	2	7.6*	1	17.5*	1	5.0*	0	0.0	1	18.5*
VALDEZ-CORDOVA CENSUS AREA												
FETAL DEATHS	1	8.8*	1	2.5*	1	11.6*	1	3.5*	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	0	0.0	1	2.5*	0	0.0	1	3.5*	0	0.0	0	0.0
POSTNEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL INFANT DEATHS	0	0.0	1	2.5*	0	0.0	1	3.5*	0	0.0	0	0.0
WADE HAMPTON CENSUS AREA												
FETAL DEATHS	1	4.6*	3	4.6*	0	0.0	0	0.0	1	4.7*	3	4.7*
INFANT DEATHS												
NEONATAL	0	0.0	1	1.5*	0	0.0	0	0.0	0	0.0	1	1.6*
POSTNEONATAL	1	4.6*	4	6.1*	0	0.0	0	0.0	1	4.7*	4	6.3*
TOTAL INFANT DEATHS	1	4.6*	5	7.6*	0	0.0	0	0.0	1	4.7*	5	7.8*
WRANGELL-PETERSBURG CENSUS AREA												
FETAL DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
POSTNEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL INFANT DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
YAKUTAT BOROUGH												
FETAL DEATHS	0	0.0	1	41.7*	0	0.0	0	0.0	0	0.0	1	83.3*
INFANT DEATHS												
NEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
POSTNEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL INFANT DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
YUKON-KOYUKUK CENSUS AREA												
FETAL DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
POSTNEONATAL	1	12.8*	2	7.5*	0	0.0	0	0.0	1	15.9*	2	9.9*
TOTAL INFANT DEATHS	1	12.8*	2	7.5*	0	0.0	0	0.0	1	15.9*	2	9.9*

* Rates based on fewer than 10 occurrences are statistically unreliable and should be used with caution.

TABLE 7 FETAL AND INFANT DEATHS (DEATH COHORT) BY NATIVE REGIONAL CORPORATION OF RESIDENCE AND RACE: ALASKA, 2003 AND 2001–2003

NATIVE REGIONAL CORPORATION	TOTAL				WHITE				NATIVE			
	2003 DEATHS	2003 RATE	01–03 DEATHS	01–03 RATE	2003 DEATHS	2003 RATE	01–03 DEATHS	01–03 RATE	2003 DEATHS	2003 RATE	01–03 DEATHS	01–03 RATE
AHTNA INCORPORATED												
FETAL DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
POSTNEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL INFANT DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
ALEUT CORPORATION												
FETAL DEATHS	1	23.3 *	1	6.3 *	0	0.0	0	0.0	1	47.6 *	1	13.9 *
INFANT DEATHS												
NEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
POSTNEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL INFANT DEATHS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
ARCTIC SLOPE REGIONAL CORPORATION												
FETAL DEATHS	1	6.1 *	1	2.0 *	0	0.0	0	0.0	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	2	12.3 *	3	6.1 *	1	100.0 *	1	27.8 *	1	7.0 *	2	4.7 *
POSTNEONATAL	0	0.0	3	6.1 *	0	0.0	0	0.0	0	0.0	3	7.1 *
TOTAL INFANT DEATHS	2	12.3 *	6	12.2 *	1	100.0 *	1	27.8 *	1	7.0 *	5	11.8 *
BERING STRAITS NATIVE CORPORATION												
FETAL DEATHS	4	20.1 *	7	10.8 *	1	43.5 *	1	13.7 *	3	17.2 *	6	10.5 *
INFANT DEATHS												
NEONATAL	1	5.1 *	1	1.6 *	0	0.0	0	0.0	1	5.8 *	1	1.8 *
POSTNEONATAL	4	20.5 *	7	10.9 *	0	0.0	0	0.0	4	23.4 *	7	12.4 *
TOTAL INFANT DEATHS	5	25.6 *	8	12.5 *	0	0.0	0	0.0	5	29.2 *	8	14.2 *
BRISTOL BAY NATIVE CORPORATION												
FETAL DEATHS	0	0.0	3	8.1 *	0	0.0	0	0.0	0	0.0	3	10.6 *
INFANT DEATHS												
NEONATAL	0	0.0	2	5.4 *	0	0.0	0	0.0	0	0.0	2	7.2 *
POSTNEONATAL	1	9.3 *	2	5.4 *	0	0.0	0	0.0	1	11.1 *	2	7.2 *
TOTAL INFANT DEATHS	1	9.3 *	4	10.9 *	0	0.0	0	0.0	1	11.1 *	4	14.3 *
CALISTA CORPORATION												
FETAL DEATHS	4	6.2 *	15	7.7	0	0.0	3	29.4 *	1	1.7 *	7	3.8 *
INFANT DEATHS												
NEONATAL	3	4.7 *	8	4.1 *	0	0.0	0	0.0	3	5.0 *	8	4.4 *
POSTNEONATAL	2	3.1 *	15	7.8	0	0.0	0	0.0	2	3.3 *	15	8.3
TOTAL INFANT DEATHS	5	7.8 *	23	11.9	0	0.0	0	0.0	5	8.3 *	23	12.7

* Rates based on fewer than 10 occurrences are statistically unreliable and should be used with caution.

TABLE 7 FETAL AND INFANT DEATHS (DEATH COHORT) BY NATIVE REGIONAL CORPORATION OF RESIDENCE AND RACE: ALASKA, 2003 AND 2001-2003

NATIVE REGIONAL CORPORATION	TOTAL				WHITE				NATIVE			
	2003 DEATHS	2003 RATE	01-03 DEATHS	01-03 RATE	2003 DEATHS	2003 RATE	01-03 DEATHS	01-03 RATE	2003 DEATHS	2003 RATE	01-03 DEATHS	01-03 RATE
CHUGACH ALASKA CORPORATION												
FETAL DEATHS	1	7.7 *	1	2.4 *	1	9.8 *	1	3.2 *	0	0.0	0	0.0
INFANT DEATHS												
NEONATAL	0	0.0	1	2.4 *	0	0.0	1	3.3 *	0	0.0	0	0.0
POSTNEONATAL	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL INFANT DEATHS	0	0.0	1	2.4 *	0	0.0	1	3.3 *	0	0.0	0	0.0
COOK INLET REGION INCORPORATED												
FETAL DEATHS	33	5.7	76	4.5	23	5.5	41	3.3	0	0.0	4	1.8 *
INFANT DEATHS												
NEONATAL	13	2.2	45	2.7	10	2.4	37	3.0	2	2.5 *	3	1.4 *
POSTNEONATAL	20	3.5	58	3.4	11	2.7	29	2.4	5	6.4 *	20	9.3
TOTAL INFANT DEATHS	33	5.7	103	6.1	21	5.1	66	5.4	7	8.9 *	23	10.6
DOYON LIMITED												
FETAL DEATHS	11	6.2	29	5.6	8	6.1 *	21	5.5	0	0.0	1	1.4 *
INFANT DEATHS												
NEONATAL	10	5.7	15	2.9	7	5.3 *	10	2.6	1	4.4 *	3	4.3 *
POSTNEONATAL	7	4.0 *	18	3.5	6	4.6 *	10	2.6	1	4.4 *	4	5.7 *
TOTAL INFANT DEATHS	17	9.7	33	6.4	13	9.9	20	5.3	2	8.9 *	7	10.1 *
KONIAG INCORPORATED												
FETAL DEATHS	0	0.0	2	3.2 *	0	0.0	1	2.6 *	0	0.0	1	10.4 *
INFANT DEATHS												
NEONATAL	1	4.9 *	3	4.8 *	1	8.1 *	2	5.3 *	0	0.0	1	10.5 *
POSTNEONATAL	1	4.9 *	2	3.2 *	0	0.0	1	2.6 *	0	0.0	0	0.0
TOTAL INFANT DEATHS	2	9.8 *	5	7.9 *	1	8.1 *	3	7.9 *	0	0.0	1	10.5 *
NANA REGIONAL CORPORATION												
FETAL DEATHS	1	6.4 *	4	8.3 *	0	0.0	1	31.3 *	1	6.7 *	3	6.7 *
INFANT DEATHS												
NEONATAL	0	0.0	1	2.1 *	0	0.0	0	0.0	0	0.0	1	2.3 *
POSTNEONATAL	2	12.9 *	5	10.5 *	0	0.0	1	32.3 *	2	13.4 *	4	9.0 *
TOTAL INFANT DEATHS	2	12.9 *	6	12.6 *	0	0.0	1	32.3 *	2	13.4 *	5	11.3 *
SEALASKA CORPORATION												
FETAL DEATHS	3	3.4 *	11	4.1	2	3.4 *	7	3.9 *	0	0.0	1	1.5 *
INFANT DEATHS												
NEONATAL	2	2.3 *	9	3.4 *	1	1.7 *	6	3.4 *	0	0.0	0	0.0
POSTNEONATAL	0	0.0	8	3.0 *	0	0.0	6	3.4 *	0	0.0	2	2.9 *
TOTAL INFANT DEATHS	2	2.3 *	17	6.4	1	1.7 *	12	6.8	0	0.0	2	2.9 *

* Rates based on fewer than 10 occurrences are statistically unreliable and should be used with caution.

**TABLE 8 INFANT DEATHS (DEATH COHORT) FOR SELECTED CAUSES OF DEATH BY AGE:
ALASKA, 2003 AND 2001–2003**

CAUSE OF DEATH* (ICD-10 CODES)	2003		2001–2003	
	NEONATAL	POSTNEONATAL	NEONATAL	POSTNEONATAL
INFECTIOUS AND PARASITIC DISEASE (A00-B99)	0	4	1	4
DISEASES OF THE NERVOUS SYSTEM (G00-G98)	0	0	1	1
INFLUENZA AND PNEUMONIA (J10-J18)	0	5	0	10
ACUTE BRONCHITIS/BRONCHIOLITIS (J20-J21)	0	1	0	2
CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD (P00-P96)	19	0	50	4
NEWBORN AFFECTED BY MATERNAL FACTORS AND COMPLICATIONS OF PREGNANCY (P00-P04)	7	0	13	0
NEWBORN AFFECTED BY MATERNAL COMPLICATIONS (P01)	2	0	3	0
COMPLICATIONS OF PLACENTA, CORD, AND MEMBRANES (P02)	4	0	9	0
OTHER COMPLICATIONS OF LABOR AND DELIVERY (P03)	1	0	1	0
SHORT GESTATION/LOW BIRTH WEIGHT (P07)	3	0	9	0
INTRAUTERINE HYPOXIA AND BIRTH ASPHYXIA (P20-P21)	1	0	5	0
RESPIRATORY DISTRESS OF NEWBORN (P22)	0	0	4	0
OTHER RESPIRATORY CONDITIONS IN THE PERINATAL PERIOD (P23-P28)	2	0	3	1
INFECTIONS SPECIFIC TO THE PERINATAL PERIOD (P35-P39)	2	0	4	1
CONGENITAL MALFORMATIONS (Q00-Q99)	8	4	24	18
MALFORMATIONS OF HEART (Q20-Q24)	3	1	7	7
MALFORMATIONS OF GENITOURINARY SYSTEM (Q50-Q64)	1	0	1	0
SIDS (R95)	1	11	4	28
UNINTENTIONAL INJURIES (V01-X59, Y85-Y86)	2	2	3	23
MOTOR VEHICLE (**)	0	0	0	1
ACCIDENTAL STRANGULATION/SUFFOCATION IN BED (W75)	2	0	3	10
OTHER ACCIDENTAL STRANGULATION/SUFFOCATION (W76-W77, W81-W84)	0	1	0	7
ASSAULT (HOMICIDE) (U01-U02, X85-Y09, Y87.1)	0	1	0	6
ASSAULT (HOMICIDE) BY DISCHARGE OF FIREARMS (U01.4, X93-X95)	0	0	0	2
NEGLECT, ABANDONMENT AND OTHER MALTREATMENT SYNDROMES (Y06-Y07)	0	1	0	3
STRANGULATION/SUFFOCATION IN BED, UNDETERMINED INTENT (Y20)	0	0	0	3
ALL OTHER CAUSES	2	10	6	20

*Causes-of-death tabulations are based on the 130 selected causes of infant death in ICD-10.

**V02-V04, V090, V092, V12-V14, V190-V192, V194-V196, V20-V79, V803-V805, V810-V811, V820-V821, V83-V86, V870-V878, V880-V888, V890, V892

**TABLE 9 INFANT DEATHS (BIRTH COHORT) FOR SELECTED CAUSES OF DEATH BY AGE:
ALASKA, 2003 AND 2001–2003**

CAUSE OF DEATH* (ICD-10 CODES)	2003		2001–2003	
	NEONATAL	POSTNEONATAL	NEONATAL	POSTNEONATAL
INFECTIOUS AND PARASITIC DISEASE (A00-B99)	0	4	1	5
DISEASES OF THE NERVOUS SYSTEM (G00-G98)	0	1	1	2
INFLUENZA AND PNEUMONIA (J10-J18)	0	4	0	10
ACUTE BRONCHITIS/BRONCHIOLITIS (J20-J21)	0	0	0	2
CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD (P00-P96)	15	0	44	4
NEWBORN AFFECTED BY MATERNAL FACTORS AND COMPLICATIONS OF PREGNANCY (P00-P04)	7	0	13	0
NEWBORN AFFECTED BY MATERNAL COMPLICATIONS (P01)	2	0	3	0
COMPLICATIONS OF PLACENTA, CORD, AND MEMBRANES (P02)	4	0	9	0
OTHER COMPLICATIONS OF LABOR AND DELIVERY (P03)	1	0	1	0
SHORT GESTATION/LOW BIRTH WEIGHT (P07)	2	0	8	0
INTRAUTERINE HYPOXIA AND BIRTH ASPHYXIA (P20-P21)	0	0	3	0
RESPIRATORY DISTRESS OF NEWBORN (P22)	0	0	4	0
OTHER RESPIRATORY CONDITIONS IN THE PERINATAL PERIOD (P23-P28)	1	0	2	1
INFECTIONS SPECIFIC TO THE PERINATAL PERIOD (P35-P39)	2	0	3	1
CONGENITAL MALFORMATIONS (Q00-Q99)	8	2	23	17
MALFORMATIONS OF HEART (Q20-Q24)	2	0	6	5
MALFORMATIONS OF GENITOURINARY SYSTEM (Q50-Q64)	1	0	1	0
SIDS (R95)	1	11	4	30
UNINTENTIONAL INJURIES (V01-X59, Y85-Y86)	2	3	3	16
ACCIDENTAL STRANGULATION/SUFFOCATION IN BED (W75)	2	2	3	12
OTHER ACCIDENTAL STRANGULATION/SUFFOCATION (W76-W77, W81-W84)	0	0	0	2
ASSAULT (HOMICIDE) (U01-U02, X85-Y09, Y87.1)	0	3	0	5
NEGLECT, ABANDONMENT AND OTHER MALTREATMENT SYNDROMES (Y06-Y07)	0	2	0	3
ALL OTHER CAUSES	1	8	5	17

*Causes-of-death tabulations are based on the 130 selected causes of infant death in ICD-10.

**V02-V04, V090, V092, V12-V14, V190-V192, V194-V196, V20-V79, V803-V805, V810-V811, V820-V821, V83-V86, V870-V878, V880-V888, V890, V892