

# FETAL AND INFANT DEATHS



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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

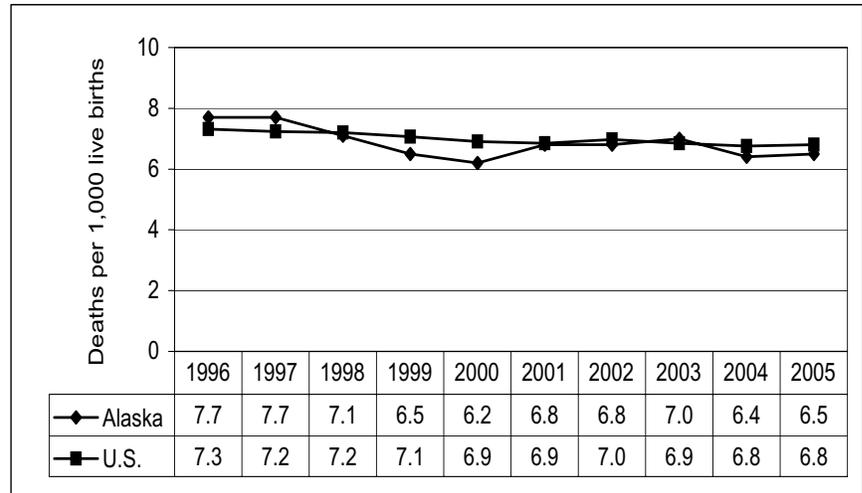
Infant deaths are defined as deaths that occur after a live birth and before an infant’s first birthday. Infant mortality may be calculated by either of two methods: a birth cohort or a death cohort. A birth cohort includes all infants born in the same calendar year who die within one year of their birth. 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. This means that an infant born in the report year (2005) may die the following year (2006). This results in a reporting timeframe that is a year longer than required for reporting the death cohort which 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 who may have been born in the previous year, 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 2005 was 60. This is a 13.0 percent decrease from the 69 infant deaths in 2004 and a 17.8 percent decrease from the 73 infant deaths in 1996. The total number of infant deaths (birth cohort) to resident mothers in 2005 was 52, a 10.3 percent decrease from the 58 infant deaths in 2004 and a 27.8 percent decrease from the 72 infant deaths in 1996.

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 2003 to 2005 three-year average IMR (death cohort) was 6.5 deaths per 1,000 live births, a 1.6 percent increase from

FIGURE 8 INFANT MORTALITY RATES (DEATH COHORT): U.S.\* AND ALASKA, 1996–2005



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

the rate of 6.4 for 2002 to 2004. The U.S. provisional infant mortality rate in 2005 was 6.8 deaths per 1,000 live births, identical to the preliminary 2004 rate of 6.8.

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). U.S. neonatal and postneonatal death rates for 2005 were unavailable at the time of printing.

The 2003 to 2005 three-year average neonatal mortality rate was 3.2 deaths per 1,000 live births, which is 10.3 percent higher than the previous three-year period. The 2003 to 2005 three-year average postneonatal mortality rate was 3.2 deaths per 1,000 live births, down 8.6 percent from 3.5 deaths per 1,000 live births for 2002 to 2004.

\* 1996–2003 U.S. rates from National Center for Health Statistics, U.S. Department of Health and Human Services, “Deaths: Final Data for 2003,” National Vital Statistics Report, Vol. 54, No. 13, April 19, 2006; 2004 U.S. rates from “Deaths: Preliminary Data for 2004,” National Vital Statistics Report, Vol. 54, No. 19, June 28, 2006. 2005 U.S. total infant mortality rate is from “Births, Marriages, Divorces, and Deaths: Provisional Data for 2005,” National Vital Statistics Report, Vol. 54, No. 20, July 21, 2006.

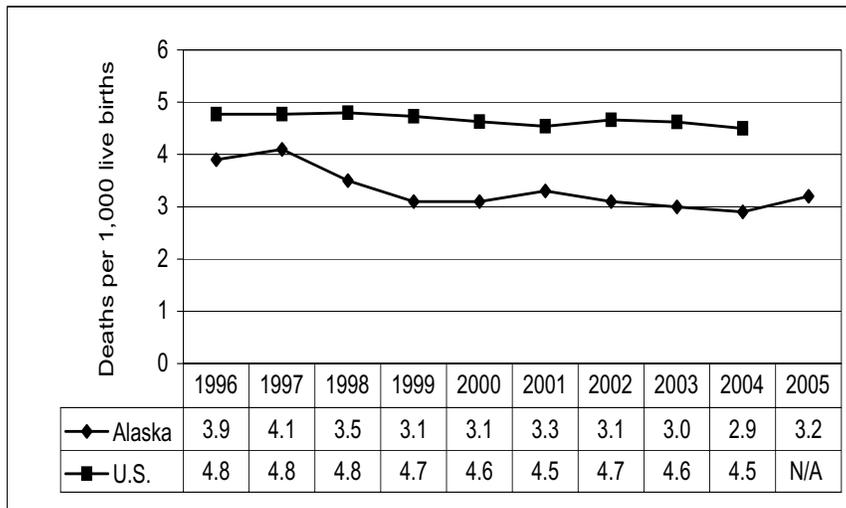
Since 1996, both the Alaska three-year neonatal and postneonatal mortality rates have declined 17.9 and 13.5 percent, respectively.

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 2005 and for the three-year period, 2003 through 2005.

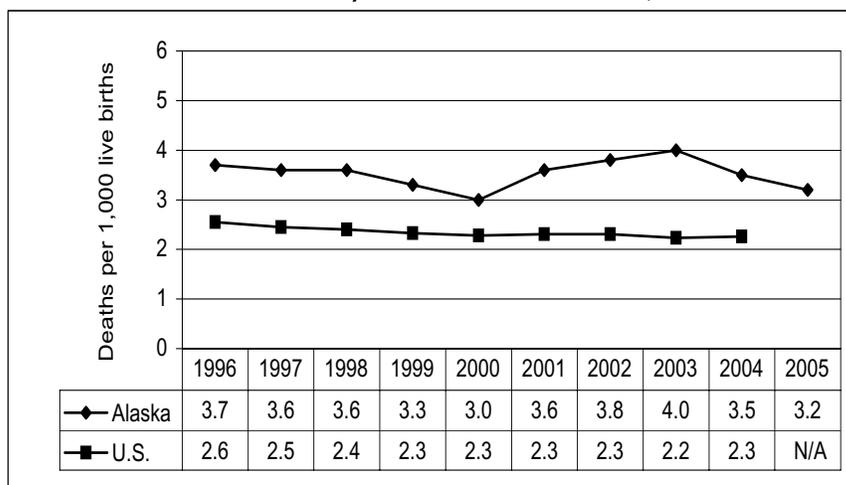
Annual rates and three-year rates for the state as a whole, its 27 census areas or boroughs, and 12 Native Regional Corporations are shown by the race and residence of the infant. Note that the infant's race is the same as the mother's race. The table of state totals provides birth information for the 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 (DEATH COHORT): U.S.\* AND ALASKA, 1996–2005**



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

**FIGURE 10 POSTNEONATAL MORTALITY RATES (DEATH COHORT): U.S.\* AND ALASKA, 1996–2005**



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

\* 1996–2003 U.S. rates from National Center for Health Statistics, U.S. Department of Health and Human Services, "Deaths: Final Data for 2003," National Vital Statistics Report, Vol. 54, No. 13, April 19, 2006; 2004 U.S. rates from "Deaths: Preliminary Data for 2004", National Vital Statistics Report, Vol. 54, No. 19, June 28, 2006. 2005 data was unavailable at the time of printing.

**TABLE 4 FETAL AND INFANT DEATHS (DEATH COHORT) BY RACE:  
ALASKA, 2005 AND 2003–2005**

| FETAL/INFANT DEATHS  | TOTAL       |           |              |            | WHITE       |           |              |            | NATIVE      |           |              |            |
|----------------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|
|                      | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE |
| <b>FETAL DEATHS</b>  | 45          | 4.3       | 165          | 5.3        | 22          | 3.4       | 91           | 4.7        | 13          | 4.8       | 30           | 3.9        |
| <b>INFANT DEATHS</b> |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL DEATHS      |             |           |              |            |             |           |              |            |             |           |              |            |
| MALE                 | 18          | 3.3       | 61           | 3.8        | 5           | 1.5 *     | 25           | 2.5        | 7           | 5.1 *     | 23           | 5.8        |
| FEMALE               | 13          | 2.6       | 39           | 2.6        | 9           | 3.0 *     | 25           | 2.7        | 1           | 0.7 *     | 10           | 2.7        |
| TOTAL                | 31          | 3.0       | 100          | 3.2        | 14          | 2.2       | 50           | 2.6        | 8           | 3.0 *     | 33           | 4.3        |
| POSTNEONATAL DEATHS  |             |           |              |            |             |           |              |            |             |           |              |            |
| MALE                 | 16          | 2.9       | 54           | 3.4        | 11          | 3.2       | 26           | 2.6        | 4           | 2.9 *     | 21           | 5.3        |
| FEMALE               | 13          | 2.6       | 46           | 3.1        | 4           | 1.3 *     | 22           | 2.4        | 7           | 5.2 *     | 18           | 4.8        |
| TOTAL                | 29          | 2.8       | 100          | 3.2        | 15          | 2.3       | 48           | 2.5        | 11          | 4.1       | 39           | 5.0        |
| TOTAL INFANT DEATHS  |             |           |              |            |             |           |              |            |             |           |              |            |
| MALE                 | 34          | 6.3       | 115          | 7.2        | 16          | 4.7       | 51           | 5.1        | 11          | 8.1       | 44           | 11.0       |
| FEMALE               | 26          | 5.2       | 85           | 5.7        | 13          | 4.3       | 47           | 5.0        | 8           | 6.0 *     | 28           | 7.5        |
| TOTAL                | 60          | 5.7       | 200          | 6.5        | 29          | 4.5       | 98           | 5.1        | 19          | 7.0       | 72           | 9.3        |

| FETAL/INFANT DEATHS  | TOTAL       |           |              |            | BLACK       |           |              |            | ASIAN/PI    |           |              |            |
|----------------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|
|                      | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE |
| <b>FETAL DEATHS</b>  | 45          | 4.3       | 165          | 5.3        | 4           | 9.7 *     | 10           | 8.4        | 3           | 3.9 *     | 12           | 5.4        |
| <b>INFANT DEATHS</b> |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL DEATHS      |             |           |              |            |             |           |              |            |             |           |              |            |
| MALE                 | 18          | 3.3       | 61           | 3.8        | 0           | 0.0       | 5            | 8.4 *      | 6           | 14.9 *    | 8            | 7.0 *      |
| FEMALE               | 13          | 2.6       | 39           | 2.6        | 2           | 9.6 *     | 3            | 5.1 *      | 1           | 2.8 *     | 1            | 0.9 *      |
| TOTAL                | 31          | 3.0       | 100          | 3.2        | 2           | 4.9 *     | 8            | 6.8 *      | 7           | 9.2 *     | 9            | 4.1 *      |
| POSTNEONATAL DEATHS  |             |           |              |            |             |           |              |            |             |           |              |            |
| MALE                 | 16          | 2.9       | 54           | 3.4        | 0           | 0.0       | 5            | 8.4 *      | 1           | 2.5 *     | 2            | 1.8 *      |
| FEMALE               | 13          | 2.6       | 46           | 3.1        | 1           | 4.8 *     | 2            | 3.4 *      | 1           | 2.8 *     | 4            | 3.7 *      |
| TOTAL                | 29          | 2.8       | 100          | 3.2        | 1           | 2.5 *     | 7            | 5.9 *      | 2           | 2.6 *     | 6            | 2.7 *      |
| TOTAL INFANT DEATHS  |             |           |              |            |             |           |              |            |             |           |              |            |
| MALE                 | 34          | 6.3       | 115          | 7.2        | 0           | 0.0       | 10           | 16.8       | 7           | 17.3 *    | 10           | 8.8        |
| FEMALE               | 26          | 5.2       | 85           | 5.7        | 3           | 14.4 *    | 5            | 8.5 *      | 2           | 5.6 *     | 5            | 4.6 *      |
| TOTAL                | 60          | 5.7       | 200          | 6.5        | 3           | 7.4 *     | 15           | 12.7       | 9           | 11.8 *    | 15           | 6.8        |

\* 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, 2005 AND 2003-2005**

| FETAL/INFANT DEATHS  | TOTAL       |           |              |            | WHITE       |           |              |            | NATIVE      |           |              |            |
|----------------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|
|                      | 2005 DEATHS | 2005 RATE | 03-05 DEATHS | 03-05 RATE | 2005 DEATHS | 2005 RATE | 03-05 DEATHS | 03-05 RATE | 2005 DEATHS | 2005 RATE | 03-05 DEATHS | 03-05 RATE |
| <b>FETAL DEATHS</b>  | 49          | 4.7       | 169          | 5.4        | 24          | 3.7       | 93           | 4.8        | 13          | 4.8       | 30           | 3.9        |
| <b>INFANT DEATHS</b> |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL DEATHS      |             |           |              |            |             |           |              |            |             |           |              |            |
| MALE                 | 17          | 3.1       | 55           | 3.5        | 4           | 1.2 *     | 20           | 2.0        | 7           | 5.1 *     | 24           | 6.0        |
| FEMALE               | 13          | 2.6       | 36           | 2.4        | 9           | 3.0 *     | 22           | 2.4        | 1           | 0.7 *     | 10           | 2.7        |
| TOTAL                | 30          | 2.9       | 91           | 2.9        | 13          | 2.0       | 42           | 2.2        | 8           | 3.0 *     | 34           | 4.4        |
| POSTNEONATAL DEATHS  |             |           |              |            |             |           |              |            |             |           |              |            |
| MALE                 | 12          | 2.2       | 42           | 2.6        | 9           | 2.7 *     | 20           | 2.0        | 2           | 1.5 *     | 17           | 4.3        |
| FEMALE               | 10          | 2.0       | 42           | 2.8        | 4           | 1.3 *     | 20           | 2.1        | 4           | 3.0 *     | 17           | 4.5        |
| TOTAL                | 22          | 2.1       | 84           | 2.7        | 13          | 2.0       | 40           | 2.1        | 6           | 2.2 *     | 34           | 4.4        |
| TOTAL INFANT DEATHS  |             |           |              |            |             |           |              |            |             |           |              |            |
| MALE                 | 29          | 5.3       | 97           | 6.1        | 13          | 3.8       | 40           | 4.0        | 9           | 6.6 *     | 41           | 10.3       |
| FEMALE               | 23          | 4.6       | 78           | 5.2        | 13          | 4.3       | 42           | 4.5        | 5           | 3.7 *     | 27           | 7.2        |
| TOTAL                | 52          | 5.0       | 175          | 5.7        | 26          | 4.0       | 82           | 4.2        | 14          | 5.2       | 68           | 8.8        |

| FETAL/INFANT DEATHS  | TOTAL       |           |              |            | BLACK       |           |              |            | ASIAN/PI    |           |              |            |
|----------------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|
|                      | 2005 DEATHS | 2005 RATE | 03-05 DEATHS | 03-05 RATE | 2005 DEATHS | 2005 RATE | 03-05 DEATHS | 03-05 RATE | 2005 DEATHS | 2005 RATE | 03-05 DEATHS | 03-05 RATE |
| <b>FETAL DEATHS</b>  | 49          | 4.7       | 169          | 5.4        | 6           | 14.5 *    | 12           | 10.0       | 3           | 3.9 *     | 12           | 5.4        |
| <b>INFANT DEATHS</b> |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL DEATHS      |             |           |              |            |             |           |              |            |             |           |              |            |
| MALE                 | 17          | 3.1       | 55           | 3.5        | 0           | 0.0       | 4            | 6.7 *      | 6           | 14.9 *    | 7            | 6.2 *      |
| FEMALE               | 13          | 2.6       | 36           | 2.4        | 2           | 9.6 *     | 3            | 5.1 *      | 1           | 2.8 *     | 1            | 0.9 *      |
| TOTAL                | 30          | 2.9       | 91           | 2.9        | 2           | 4.9 *     | 7            | 5.9 *      | 7           | 9.2 *     | 8            | 3.6 *      |
| POSTNEONATAL DEATHS  |             |           |              |            |             |           |              |            |             |           |              |            |
| MALE                 | 12          | 2.2       | 42           | 2.6        | 0           | 0.0       | 4            | 6.7 *      | 1           | 2.5 *     | 1            | 0.9 *      |
| FEMALE               | 10          | 2.0       | 42           | 2.8        | 1           | 4.8 *     | 3            | 5.1 *      | 1           | 2.8 *     | 2            | 1.9 *      |
| TOTAL                | 22          | 2.1       | 84           | 2.7        | 1           | 2.5 *     | 7            | 5.9 *      | 2           | 2.6 *     | 3            | 1.4 *      |
| TOTAL INFANT DEATHS  |             |           |              |            |             |           |              |            |             |           |              |            |
| MALE                 | 29          | 5.3       | 97           | 6.1        | 0           | 0.0       | 8            | 13.4 *     | 7           | 17.3 *    | 8            | 7.0 *      |
| FEMALE               | 23          | 4.6       | 78           | 5.2        | 3           | 14.4 *    | 6            | 10.2 *     | 2           | 5.6 *     | 3            | 2.8 *      |
| TOTAL                | 52          | 5.0       | 175          | 5.7        | 3           | 7.4 *     | 14           | 11.8       | 9           | 11.8 *    | 11           | 5.0        |

\* 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, 2005 AND 2003–2005**

| CENSUS AREA/BOROUGH                 | TOTAL       |           |              |            | WHITE       |           |              |            | NATIVE      |           |              |            |
|-------------------------------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|
|                                     | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE |
| <b>ALEUTIANS EAST BOROUGH</b>       |             |           |              |            |             |           |              |            |             |           |              |            |
| 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                               | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        |
| <b>ALEUTIANS WEST CENSUS AREA</b>   |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                        | 0           | 0.0       | 1            | 9.1*       | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 1            | 27.8*      |
| INFANT DEATHS                       |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                            | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        |
| POSTNEONATAL                        | 1           | 24.4*     | 1            | 9.2*       | 0           | 0.0       | 0            | 0.0        | 1           | 58.8*     | 1            | 28.6*      |
| TOTAL                               | 1           | 24.4*     | 1            | 9.2*       | 0           | 0.0       | 0            | 0.0        | 1           | 58.8*     | 1            | 28.6*      |
| <b>MUNICIPALITY OF ANCHORAGE</b>    |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                        | 17          | 4.0       | 60           | 4.6        | 7           | 2.6*      | 32           | 3.8        | 3           | 4.6*      | 5            | 2.6*       |
| INFANT DEATHS                       |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                            | 13          | 3.1       | 32           | 2.5        | 4           | 1.5*      | 16           | 1.9        | 2           | 3.1*      | 6            | 3.1*       |
| POSTNEONATAL                        | 15          | 3.5       | 38           | 2.9        | 7           | 2.6*      | 21           | 2.5        | 5           | 7.7*      | 9            | 4.6*       |
| TOTAL                               | 28          | 6.6       | 70           | 5.4        | 11          | 4.1       | 37           | 4.4        | 7           | 10.8*     | 15           | 7.7        |
| <b>BETHEL CENSUS AREA</b>           |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                        | 2           | 4.6*      | 8            | 6.2*       | 0           | 0.0       | 0            | 0.0        | 2           | 5.0*      | 5            | 4.2*       |
| INFANT DEATHS                       |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                            | 2           | 4.6*      | 9            | 7.1*       | 0           | 0.0       | 0            | 0.0        | 2           | 5.0*      | 9            | 7.6*       |
| POSTNEONATAL                        | 0           | 0.0       | 1            | 0.8*       | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 1            | 0.8*       |
| TOTAL                               | 2           | 4.6*      | 10           | 7.8        | 0           | 0.0       | 0            | 0.0        | 2           | 5.0*      | 10           | 8.4        |
| <b>BRISTOL BAY BOROUGH</b>          |             |           |              |            |             |           |              |            |             |           |              |            |
| 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                               | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        |
| <b>DENALI BOROUGH</b>               |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                        | 0           | 0.0       | 1            | 18.9*      | 0           | 0.0       | 1            | 21.3*      | 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            | 19.2*      | 0           | 0.0       | 1            | 21.7*      | 0           | 0.0       | 0            | 0.0        |
| TOTAL                               | 0           | 0.0       | 1            | 19.2*      | 0           | 0.0       | 1            | 21.7*      | 0           | 0.0       | 0            | 0.0        |
| <b>DILLINGHAM CENSUS AREA</b>       |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                        | 0           | 0.0       | 1            | 3.7*       | 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            | 3.7*       | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 1            | 4.3*       |
| TOTAL                               | 0           | 0.0       | 1            | 3.7*       | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 1            | 4.3*       |
| <b>FAIRBANKS NORTH STAR BOROUGH</b> |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                        | 5           | 3.2*      | 26           | 5.5        | 5           | 4.1*      | 20           | 5.5        | 0           | 0.0       | 1            | 2.0*       |
| INFANT DEATHS                       |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                            | 4           | 2.6*      | 17           | 3.6        | 4           | 3.3*      | 12           | 3.3        | 0           | 0.0       | 1            | 2.0*       |
| POSTNEONATAL                        | 2           | 1.3*      | 13           | 2.8        | 2           | 1.7*      | 11           | 3.0        | 0           | 0.0       | 0            | 0.0        |
| TOTAL                               | 6           | 3.8*      | 30           | 6.4        | 6           | 5.0*      | 23           | 6.4        | 0           | 0.0       | 1            | 2.0*       |
| <b>HAINES BOROUGH</b>               |             |           |              |            |             |           |              |            |             |           |              |            |
| 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           | 41.7*     | 1            | 15.9*      | 1           | 52.6*     | 1            | 20.8*      | 0           | 0.0       | 0            | 0.0        |
| TOTAL                               | 1           | 41.7*     | 1            | 15.9*      | 1           | 52.6*     | 1            | 20.8*      | 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, 2005 AND 2003–2005**

| CENSUS AREA/BOROUGH               | TOTAL       |           |              |            | WHITE       |           |              |            | NATIVE      |           |              |            |
|-----------------------------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|
|                                   | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE |
| <b>JUNEAU BOROUGH</b>             |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                      | 2           | 5.4*      | 3            | 2.6*       | 1           | 4.1*      | 2            | 2.5*       | 0           | 0.0       | 0            | 0.0        |
| INFANT DEATHS                     |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                          | 1           | 2.7*      | 4            | 3.5*       | 0           | 0.0       | 1            | 1.3*       | 0           | 0.0       | 1            | 4.0*       |
| POSTNEONATAL                      | 0           | 0.0       | 2            | 1.7*       | 0           | 0.0       | 2            | 2.5*       | 0           | 0.0       | 0            | 0.0        |
| TOTAL                             | 1           | 2.7*      | 6            | 5.2*       | 0           | 0.0       | 3            | 3.8*       | 0           | 0.0       | 1            | 4.0*       |
| <b>KENAI PENINSULA BOROUGH</b>    |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                      | 2           | 3.1*      | 10           | 5.3        | 1           | 1.8*      | 6            | 3.7*       | 0           | 0.0       | 0            | 0.0        |
| INFANT DEATHS                     |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                          | 2           | 3.1*      | 5            | 2.7*       | 2           | 3.5*      | 5            | 3.1*       | 0           | 0.0       | 0            | 0.0        |
| POSTNEONATAL                      | 3           | 4.7*      | 10           | 5.4        | 2           | 3.5*      | 7            | 4.3*       | 1           | 16.4*     | 2            | 10.9*      |
| TOTAL                             | 5           | 7.8*      | 15           | 8.0        | 4           | 7.1*      | 12           | 7.3        | 1           | 16.4*     | 2            | 10.9*      |
| <b>KETCHIKAN GATEWAY BOROUGH</b>  |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                      | 1           | 5.2*      | 5            | 9.0*       | 1           | 8.0*      | 4            | 10.3*      | 0           | 0.0       | 0            | 0.0        |
| INFANT DEATHS                     |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                          | 0           | 0.0       | 1            | 1.8*       | 0           | 0.0       | 1            | 2.6*       | 0           | 0.0       | 0            | 0.0        |
| POSTNEONATAL                      | 0           | 0.0       | 1            | 1.8*       | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 1            | 8.5*       |
| TOTAL                             | 0           | 0.0       | 2            | 3.6*       | 0           | 0.0       | 1            | 2.6*       | 0           | 0.0       | 1            | 8.5*       |
| <b>KODIAK ISLAND BOROUGH</b>      |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                      | 1           | 4.5*      | 1            | 1.6*       | 0           | 0.0       | 0            | 0.0        | 1           | 28.6*     | 1            | 10.0*      |
| INFANT DEATHS                     |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                          | 1           | 4.5*      | 2            | 3.1*       | 0           | 0.0       | 1            | 2.6*       | 0           | 0.0       | 0            | 0.0        |
| POSTNEONATAL                      | 0           | 0.0       | 2            | 3.1*       | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 1            | 10.1*      |
| TOTAL                             | 1           | 4.5*      | 4            | 6.3*       | 0           | 0.0       | 1            | 2.6*       | 0           | 0.0       | 1            | 10.1*      |
| <b>LAKE AND PENINSULA BOROUGH</b> |             |           |              |            |             |           |              |            |             |           |              |            |
| 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                             | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        |
| <b>MATANUSKA-SUSITNA BOROUGH</b>  |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                      | 3           | 2.7*      | 18           | 5.9        | 3           | 3.1*      | 16           | 6.0        | 0           | 0.0       | 0            | 0.0        |
| INFANT DEATHS                     |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                          | 4           | 3.6*      | 12           | 4.0        | 4           | 4.1*      | 11           | 4.2        | 0           | 0.0       | 1            | 3.8*       |
| POSTNEONATAL                      | 3           | 2.7*      | 5            | 1.6*       | 3           | 3.1*      | 4            | 1.5*       | 0           | 0.0       | 1            | 3.8*       |
| TOTAL                             | 7           | 6.2*      | 17           | 5.6        | 7           | 7.3*      | 15           | 5.7        | 0           | 0.0       | 2            | 7.6*       |
| <b>NOME CENSUS AREA</b>           |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                      | 1           | 4.0*      | 6            | 8.8*       | 0           | 0.0       | 1            | 16.9*      | 1           | 4.4*      | 4            | 6.6*       |
| INFANT DEATHS                     |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                          | 2           | 8.1*      | 4            | 5.9*       | 0           | 0.0       | 0            | 0.0        | 2           | 8.9*      | 4            | 6.6*       |
| POSTNEONATAL                      | 2           | 8.1*      | 9            | 13.4*      | 0           | 0.0       | 0            | 0.0        | 2           | 8.9*      | 9            | 14.9*      |
| TOTAL                             | 4           | 16.1*     | 13           | 19.3       | 0           | 0.0       | 0            | 0.0        | 4           | 17.9*     | 13           | 21.5       |
| <b>NORTH SLOPE BOROUGH</b>        |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                      | 2           | 11.3*     | 5            | 9.8*       | 0           | 0.0       | 0            | 0.0        | 1           | 6.5*      | 2            | 4.5*       |
| INFANT DEATHS                     |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                          | 0           | 0.0       | 5            | 9.9*       | 0           | 0.0       | 1            | 27.0*      | 0           | 0.0       | 4            | 9.1*       |
| POSTNEONATAL                      | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        |
| TOTAL                             | 0           | 0.0       | 5            | 9.9*       | 0           | 0.0       | 1            | 27.0*      | 0           | 0.0       | 4            | 9.1*       |
| <b>NORTHWEST ARCTIC BOROUGH</b>   |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                      | 0           | 0.0       | 3            | 5.6*       | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 3            | 6.0*       |
| 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       | 6            | 11.3*      | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 6            | 12.1*      |
| TOTAL                             | 0           | 0.0       | 6            | 11.3*      | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 6            | 12.1*      |

\* 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, 2005 AND 2003-2005**

| CENSUS AREA/BOROUGH                                | TOTAL       |           |              |            | WHITE       |           |              |            | NATIVE      |           |              |            |
|----------------------------------------------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|
|                                                    | 2005 DEATHS | 2005 RATE | 03-05 DEATHS | 03-05 RATE | 2005 DEATHS | 2005 RATE | 03-05 DEATHS | 03-05 RATE | 2005 DEATHS | 2005 RATE | 03-05 DEATHS | 03-05 RATE |
| <b>PRINCE OF WALES-OUTER KETCHIKAN CENSUS AREA</b> |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                                       | 2           | 27.8*     | 3            | 16.9*      | 1           | 33.3*     | 2            | 28.6*      | 1           | 25.0*     | 1            | 10.0*      |
| 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                                              | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        |
| <b>SITKA BOROUGH</b>                               |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                                       | 1           | 8.5*      | 1            | 2.9*       | 1           | 13.0*     | 1            | 4.6*       | 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                                              | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        |
| <b>SKAGWAY-HOONAH-ANGOON CENSUS AREA</b>           |             |           |              |            |             |           |              |            |             |           |              |            |
| 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                                              | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        |
| <b>SOUTHEAST FAIRBANKS CENSUS</b>                  |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                                       | 0           | 0.0       | 3            | 10.8*      | 0           | 0.0       | 3            | 14.0*      | 0           | 0.0       | 0            | 0.0        |
| INFANT DEATHS                                      |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                                           | 0           | 0.0       | 1            | 3.6*       | 0           | 0.0       | 1            | 4.7*       | 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                                              | 0           | 0.0       | 1            | 3.6*       | 0           | 0.0       | 1            | 4.7*       | 0           | 0.0       | 0            | 0.0        |
| <b>VALDEZ-CORDOVA CENSUS AREA</b>                  |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                                       | 1           | 8.2*      | 2            | 5.5*       | 1           | 12.0*     | 2            | 7.7*       | 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            | 3.9*       | 0           | 0.0       | 0            | 0.0        |
| TOTAL                                              | 0           | 0.0       | 1            | 2.8*       | 0           | 0.0       | 1            | 3.9*       | 0           | 0.0       | 0            | 0.0        |
| <b>WADE HAMPTON CENSUS AREA</b>                    |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                                       | 3           | 13.0*     | 6            | 8.9*       | 0           | 0.0       | 0            | 0.0        | 3           | 13.2*     | 6            | 9.1*       |
| INFANT DEATHS                                      |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                                           | 1           | 4.4*      | 3            | 4.5*       | 0           | 0.0       | 0            | 0.0        | 1           | 4.5*      | 3            | 4.6*       |
| POSTNEONATAL                                       | 1           | 4.4*      | 4            | 6.0*       | 0           | 0.0       | 0            | 0.0        | 1           | 4.5*      | 4            | 6.1*       |
| TOTAL                                              | 2           | 8.8*      | 7            | 10.5*      | 0           | 0.0       | 0            | 0.0        | 2           | 8.9*      | 7            | 10.7*      |
| <b>WRANGELL-PETERSBURG CENSUS</b>                  |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                                       | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        |
| INFANT DEATHS                                      |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                                           | 1           | 16.4*     | 1            | 5.2*       | 0           | 0.0       | 0            | 0.0        | 1           | 58.8*     | 1            | 21.7*      |
| POSTNEONATAL                                       | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        |
| TOTAL                                              | 1           | 16.4*     | 1            | 5.2*       | 0           | 0.0       | 0            | 0.0        | 1           | 58.8*     | 1            | 21.7*      |
| <b>YAKUTAT BOROUGH</b>                             |             |           |              |            |             |           |              |            |             |           |              |            |
| 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                                              | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        |
| <b>YUKON-KOYUKUK CENSUS AREA</b>                   |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                                       | 1           | 14.3*     | 1            | 4.5*       | 1           | 90.9*     | 1            | 27.0*      | 0           | 0.0       | 0            | 0.0        |
| INFANT DEATHS                                      |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                                           | 0           | 0.0       | 3            | 13.6*      | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 3            | 16.9*      |
| POSTNEONATAL                                       | 1           | 14.5*     | 3            | 13.6*      | 0           | 0.0       | 0            | 0.0        | 1           | 17.5*     | 3            | 16.9*      |
| TOTAL                                              | 1           | 14.5*     | 6            | 27.1*      | 0           | 0.0       | 0            | 0.0        | 1           | 17.5*     | 6            | 33.7*      |

\* 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, 2005 AND 2003–2005**

| NATIVE REGIONAL CORPORATION              | TOTAL       |           |              |            | WHITE       |           |              |            | NATIVE      |           |              |            |
|------------------------------------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|
|                                          | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE |
| <b>AHTNA INCORPORATED</b>                |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                             | 1           | 18.5*     | 1            | 7.5*       | 1           | 37.0*     | 1            | 13.2*      | 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       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        |
| TOTAL                                    | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        |
| <b>ALEUT CORPORATION</b>                 |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                             | 0           | 0.0       | 1            | 6.2*       | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 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                             | 1           | 16.1*     | 1            | 6.2*       | 0           | 0.0       | 0            | 0.0        | 1           | 31.3*     | 1            | 14.1*      |
| TOTAL                                    | 1           | 16.1*     | 1            | 6.2*       | 0           | 0.0       | 0            | 0.0        | 1           | 31.3*     | 1            | 14.1*      |
| <b>ARCTIC SLOPE REGIONAL CORPORATION</b> |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                             | 2           | 11.3*     | 5            | 9.8*       | 0           | 0.0       | 0            | 0.0        | 1           | 6.5*      | 2            | 4.5*       |
| INFANT DEATHS                            |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                                 | 0           | 0.0       | 5            | 9.9*       | 0           | 0.0       | 1            | 27.0*      | 0           | 0.0       | 4            | 9.1*       |
| POSTNEONATAL                             | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 0            | 0.0        |
| TOTAL                                    | 0           | 0.0       | 5            | 9.9*       | 0           | 0.0       | 1            | 27.0*      | 0           | 0.0       | 4            | 9.1*       |
| <b>BERING STRAITS NATIVE CORPORATION</b> |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                             | 1           | 4.0*      | 6            | 8.8*       | 0           | 0.0       | 1            | 16.9*      | 1           | 4.4*      | 4            | 6.6*       |
| INFANT DEATHS                            |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                                 | 2           | 8.1*      | 4            | 5.9*       | 0           | 0.0       | 0            | 0.0        | 2           | 8.9*      | 4            | 6.6*       |
| POSTNEONATAL                             | 2           | 8.1*      | 9            | 13.4*      | 0           | 0.0       | 0            | 0.0        | 2           | 8.9*      | 9            | 14.9*      |
| TOTAL                                    | 4           | 16.1*     | 13           | 19.3       | 0           | 0.0       | 0            | 0.0        | 4           | 17.9*     | 13           | 21.5       |
| <b>BRISTOL BAY NATIVE CORPORATION</b>    |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                             | 0           | 0.0       | 1            | 2.7*       | 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            | 2.7*       | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 1            | 3.2*       |
| TOTAL                                    | 0           | 0.0       | 1            | 2.7*       | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 1            | 3.2*       |
| <b>CALISTA CORPORATION</b>               |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                             | 5           | 7.5*      | 14           | 7.2        | 0           | 0.0       | 0            | 0.0        | 5           | 7.9*      | 11           | 5.9        |
| INFANT DEATHS                            |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                                 | 3           | 4.5*      | 12           | 6.2        | 0           | 0.0       | 0            | 0.0        | 3           | 4.8*      | 12           | 6.5        |
| POSTNEONATAL                             | 1           | 1.5*      | 5            | 2.6*       | 0           | 0.0       | 0            | 0.0        | 1           | 1.6*      | 5            | 2.7*       |
| TOTAL                                    | 4           | 6.1*      | 17           | 8.7        | 0           | 0.0       | 0            | 0.0        | 4           | 6.4*      | 17           | 9.2        |

\* 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, 2005 AND 2003–2005**

| NATIVE REGIONAL CORPORATION           | TOTAL       |           |              |            | WHITE       |           |              |            | NATIVE      |           |              |            |
|---------------------------------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|-------------|-----------|--------------|------------|
|                                       | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE | 2005 DEATHS | 2005 RATE | 03–05 DEATHS | 03–05 RATE |
| <b>CHUGACH ALASKA CORPORATION</b>     |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                          | 0           | 0.0       | 1            | 2.5*       | 0           | 0.0       | 1            | 3.4*       | 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            | 2.5*       | 0           | 0.0       | 1            | 3.4*       | 0           | 0.0       | 0            | 0.0        |
| TOTAL                                 | 0           | 0.0       | 1            | 2.5*       | 0           | 0.0       | 1            | 3.4*       | 0           | 0.0       | 0            | 0.0        |
| <b>COOK INLET REGION INCORPORATED</b> |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                          | 22          | 3.7       | 88           | 5.0        | 11          | 2.6       | 54           | 4.3        | 3           | 3.8*      | 5            | 2.1*       |
| INFANT DEATHS                         |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                              | 19          | 3.2       | 49           | 2.8        | 10          | 2.4       | 32           | 2.5        | 2           | 2.5*      | 7            | 3.0*       |
| POSTNEONATAL                          | 21          | 3.5       | 53           | 3.0        | 12          | 2.9       | 32           | 2.5        | 6           | 7.6*      | 12           | 5.1        |
| TOTAL                                 | 40          | 6.7       | 102          | 5.8        | 22          | 5.2       | 64           | 5.1        | 8           | 10.1*     | 19           | 8.1        |
| <b>DOYON LIMITED</b>                  |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                          | 6           | 3.4*      | 31           | 5.9        | 6           | 4.6*      | 25           | 6.4        | 0           | 0.0       | 1            | 1.4*       |
| INFANT DEATHS                         |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                              | 4           | 2.3*      | 21           | 4.0        | 4           | 3.1*      | 13           | 3.3        | 0           | 0.0       | 4            | 5.5*       |
| POSTNEONATAL                          | 3           | 1.7*      | 17           | 3.2        | 2           | 1.5*      | 12           | 3.1        | 1           | 4.0*      | 3            | 4.1*       |
| TOTAL                                 | 7           | 4.0*      | 38           | 7.2        | 6           | 4.6*      | 25           | 6.4        | 1           | 4.0*      | 7            | 9.7*       |
| <b>KONIAG INCORPORATED</b>            |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                          | 1           | 4.5*      | 1            | 1.6*       | 0           | 0.0       | 0            | 0.0        | 1           | 28.6*     | 1            | 10.0*      |
| INFANT DEATHS                         |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                              | 1           | 4.5*      | 2            | 3.1*       | 0           | 0.0       | 1            | 2.6*       | 0           | 0.0       | 0            | 0.0        |
| POSTNEONATAL                          | 0           | 0.0       | 2            | 3.1*       | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 1            | 10.1*      |
| TOTAL                                 | 1           | 4.5*      | 4            | 6.3*       | 0           | 0.0       | 1            | 2.6*       | 0           | 0.0       | 1            | 10.1*      |
| <b>NANA REGIONAL CORPORATION</b>      |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                          | 0           | 0.0       | 3            | 5.6*       | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 3            | 6.0*       |
| 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       | 6            | 11.3*      | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 6            | 12.1*      |
| TOTAL                                 | 0           | 0.0       | 6            | 11.3*      | 0           | 0.0       | 0            | 0.0        | 0           | 0.0       | 6            | 12.1*      |
| <b>SEALASKA CORPORATION</b>           |             |           |              |            |             |           |              |            |             |           |              |            |
| FETAL DEATHS                          | 6           | 6.8*      | 12           | 4.6        | 4           | 7.2*      | 9            | 5.3*       | 1           | 4.0*      | 1            | 1.5*       |
| INFANT DEATHS                         |             |           |              |            |             |           |              |            |             |           |              |            |
| NEONATAL                              | 2           | 2.3*      | 6            | 2.3*       | 0           | 0.0       | 2            | 1.2*       | 1           | 4.0*      | 2            | 2.9*       |
| POSTNEONATAL                          | 1           | 1.1*      | 4            | 1.5*       | 1           | 1.8*      | 3            | 1.8*       | 0           | 0.0       | 1            | 1.5*       |
| TOTAL                                 | 3           | 3.4*      | 10           | 3.9        | 1           | 1.8*      | 5            | 3.0*       | 1           | 4.0*      | 3            | 4.4*       |

\* 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, 2005 AND 2003–2005**

| CAUSE OF DEATH* (ICD-10 CODES)                                                | 2005      |              | 2003–2005  |              |
|-------------------------------------------------------------------------------|-----------|--------------|------------|--------------|
|                                                                               | NEONATAL  | POSTNEONATAL | NEONATAL   | POSTNEONATAL |
| INFECTIOUS AND PARASITIC DISEASE (A00–B99)                                    | 0         | 1            | 1          | 8            |
| DISEASES OF THE NERVOUS SYSTEM (G00–G98)                                      | 0         | 1            | 0          | 2            |
| INFLUENZA AND PNEUMONIA (J10–J18)                                             | 0         | 0            | 0          | 5            |
| ACUTE BRONCHITIS/BRONCHIOLITIS (J20–J21)                                      | 0         | 0            | 0          | 1            |
| CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD (P00–P96)              | 19        | 0            | 59         | 1            |
| NEWBORN AFFECTED BY MATERNAL FACTORS AND COMPLICATIONS OF PREGNANCY (P00–P04) | 8         | 0            | 22         | 0            |
| NEWBORN AFFECTED BY MATERNAL COMPLICATIONS (P01)                              | 7         | 0            | 12         | 0            |
| COMPLICATIONS OF PLACENTA, CORD, AND MEMBRANES (P02)                          | 1         | 0            | 9          | 0            |
| OTHER COMPLICATIONS OF LABOR AND DELIVERY (P03)                               | 0         | 0            | 1          | 0            |
| SHORT GESTATION/LOW BIRTH WEIGHT (P07)                                        | 5         | 0            | 10         | 0            |
| INTRAUTERINE HYPOXIA AND BIRTH ASPHYXIA (P20–P21)                             | 1         | 0            | 4          | 0            |
| RESPIRATORY DISTRESS OF NEWBORN (P22)                                         | 1         | 0            | 3          | 0            |
| OTHER RESPIRATORY CONDITIONS IN THE PERINATAL PERIOD (P23–P28)                | 0         | 0            | 2          | 0            |
| INFECTIONS SPECIFIC TO THE PERINATAL PERIOD (P35–P39)                         | 0         | 0            | 5          | 0            |
| CONGENITAL MALFORMATIONS (Q00–Q99)                                            | 8         | 6            | 26         | 14           |
| MALFORMATIONS OF HEART (Q20–Q24)                                              | 1         | 0            | 5          | 2            |
| MALFORMATIONS OF GENITOURINARY SYSTEM (Q50–Q64)                               | 0         | 0            | 1          | 0            |
| SIDS (R95)                                                                    | 0         | 2            | 2          | 23           |
| UNINTENTIONAL INJURIES (V01–X59, Y85–Y86)                                     | 3         | 10           | 5          | 21           |
| ACCIDENTAL STRANGULATION/SUFFOCATION IN BED (W75)                             | 3         | 6            | 5          | 12           |
| OTHER ACCIDENTAL STRANGULATION/SUFFOCATION (W76–W77,W81–W84)                  | 0         | 3            | 0          | 4            |
| ASSAULT (HOMICIDE) (U01–U02,X85–Y09,Y87.1)                                    | 0         | 2            | 0          | 5            |
| NEGLECT, ABANDONMENT AND OTHER MALTREATMENT SYNDROMES (Y06–Y07)               | 0         | 0            | 0          | 2            |
| STRANGULATION/SUFFOCATION IN BED, UNDETERMINED INTENT (Y20)                   | 0         | 1            | 0          | 1            |
| ALL OTHER CAUSES                                                              | 1         | 6            | 7          | 19           |
| <b>TOTAL</b>                                                                  | <b>58</b> | <b>38</b>    | <b>179</b> | <b>120</b>   |

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

**TABLE 9      INFANT DEATHS (BIRTH COHORT) FOR SELECTED CAUSES OF DEATH BY AGE:  
ALASKA, 2005 AND 2003–2005**

| CAUSE OF DEATH* (ICD-10 CODES)                                                | 2005      |              | 2003–2005  |              |
|-------------------------------------------------------------------------------|-----------|--------------|------------|--------------|
|                                                                               | NEONATAL  | POSTNEONATAL | NEONATAL   | POSTNEONATAL |
| INFECTIOUS AND PARASITIC DISEASE (A00–B99)                                    | 0         | 0            | 1          | 7            |
| DISEASES OF THE NERVOUS SYSTEM (G00–G98)                                      | 0         | 1            | 0          | 2            |
| INFLUENZA AND PNEUMONIA (J10–J18)                                             | 0         | 0            | 0          | 4            |
| CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD (P00–P96)              | 19        | 0            | 53         | 1            |
| NEWBORN AFFECTED BY MATERNAL FACTORS AND COMPLICATIONS OF PREGNANCY (P00–P04) | 8         | 0            | 22         | 0            |
| NEWBORN AFFECTED BY MATERNAL COMPLICATIONS (P01)                              | 7         | 0            | 12         | 0            |
| COMPLICATIONS OF PLACENTA, CORD, AND MEMBRANES (P02)                          | 1         | 0            | 9          | 0            |
| OTHER COMPLICATIONS OF LABOR AND DELIVERY (P03)                               | 0         | 0            | 1          | 0            |
| SHORT GESTATION/LOW BIRTH WEIGHT (P07)                                        | 5         | 0            | 8          | 0            |
| INTRAUTERINE HYPOXIA AND BIRTH ASPHYXIA (P20–P21)                             | 1         | 0            | 3          | 0            |
| RESPIRATORY DISTRESS OF NEWBORN (P22)                                         | 1         | 0            | 3          | 0            |
| OTHER RESPIRATORY CONDITIONS IN THE PERINATAL PERIOD (P23–P28)                | 0         | 0            | 1          | 0            |
| INFECTIONS SPECIFIC TO THE PERINATAL PERIOD (P35–P39)                         | 0         | 0            | 4          | 0            |
| CONGENITAL MALFORMATIONS (Q00–Q99)                                            | 7         | 5            | 24         | 11           |
| MALFORMATIONS OF HEART (Q20–Q24)                                              | 1         | 0            | 4          | 1            |
| MALFORMATIONS OF GENITOURINARY SYSTEM (Q50–Q64)                               | 0         | 0            | 1          | 0            |
| SIDS (R95)                                                                    | 0         | 2            | 2          | 17           |
| UNINTENTIONAL INJURIES (V01–X59, Y85–Y86)                                     | 3         | 7            | 5          | 19           |
| ACCIDENTAL STRANGULATION/SUFFOCATION IN BED (W75)                             | 3         | 5            | 5          | 12           |
| OTHER ACCIDENTAL STRANGULATION/SUFFOCATION (W76–W77,W81–W84)                  | 0         | 1            | 0          | 3            |
| ASSAULT (HOMICIDE) (U01–U02,X85–Y09,Y87.1)                                    | 0         | 2            | 0          | 5            |
| NEGLECT, ABANDONMENT AND OTHER MALTREATMENT SYNDROMES (Y06–Y07)               | 0         | 0            | 0          | 2            |
| STRANGULATION/SUFFOCATION IN BED, UNDETERMINED INTENT (Y20)                   | 0         | 1            | 0          | 1            |
| ALL OTHER CAUSES                                                              | 1         | 4            | 6          | 17           |
| <b>TOTAL</b>                                                                  | <b>57</b> | <b>28</b>    | <b>164</b> | <b>102</b>   |

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