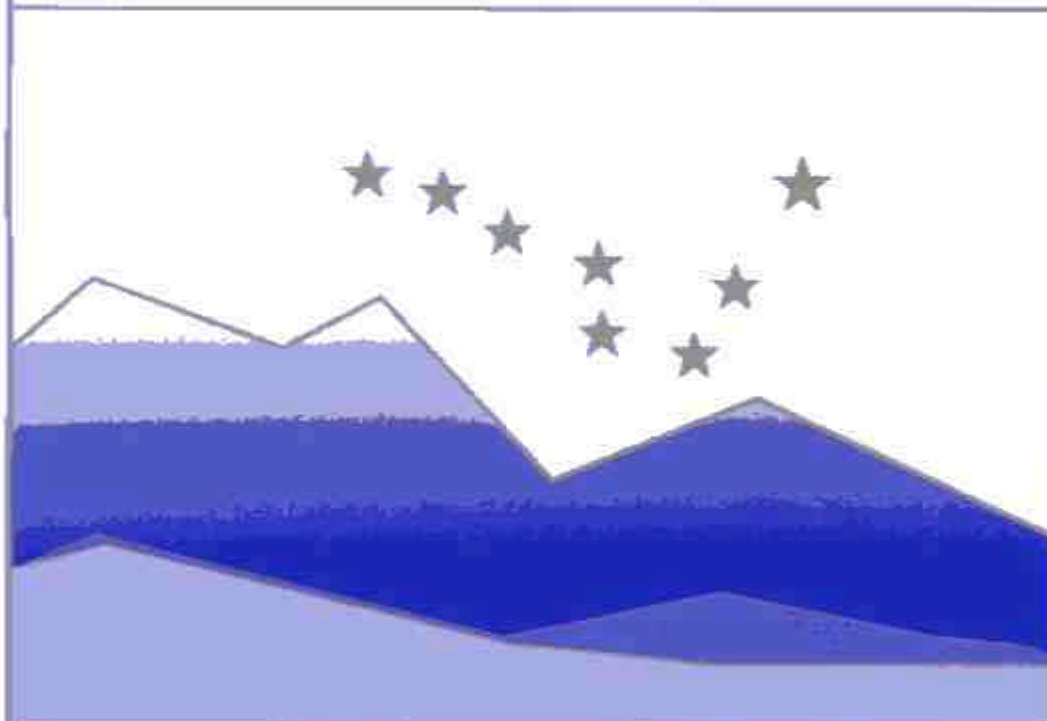


# **ALASKA**

## **BUREAU OF VITAL STATISTICS**



**1998 ANNUAL REPORT**

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Governor

**STATE OF ALASKA**



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Commissioner

**DEPT. OF HEALTH &  
SOCIAL SERVICES**

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# PREFACE

## PURPOSE OF THIS REPORT

The *Alaska Bureau of Vital Statistics 1998 Annual Report* was written by Research Unit staff of the Alaska Bureau of Vital Statistics. This document contains data on births, fetal and infant deaths, adoptions, marriages and divorces, and deaths. The purpose of this report is to provide reference material and indicators for health and vital events in Alaska. Other data sources for analyzing public health trends are also available from the Alaska Department of Health and Social Services. Please refer to Appendix J for other data sources within the department.

## HOW THIS REPORT IS ORGANIZED

### Table of Contents

The table of contents contains chapter headings and major sections, and lists of tables, charts, and maps.

### Preface

This section describes the organization of this report.

### Executive Summary

The executive summary includes population estimates, and numbers and rates of vital events (births, deaths, marriages, divorces and adoptions) in Alaska for the 1998 calendar year.

### Introduction

The introduction provides an overview of Alaska, information on population and demographics, and an explanation of how vital statistics are collected and recorded.

### Births

The birth section includes tables showing numbers of births by census area and Native regional corporation boundaries, birth characteristics of babies, and demographic and behavioral information on parents.

### Fetal and Infant Deaths

This chapter includes tables showing fetal deaths by census area and Native regional corporation boundaries, mother's age and length of gestation; and deaths and mortality rates for infants up to one year of age by census areas, Native regional corporations, and causes of death.

### Childhood Deaths

This chapter provides specific information on deaths to children from 1 through 17 years of age.

### Adoptions

The adoption chapter provides information on census areas and Native regional corporation boundaries where adoption decrees were granted; adoptions by age, race, and birth place of children; and race of adoptive parents.

### Marriages and Divorces

This chapter provides information on the number and rates of marriages and divorces by residence, and marriages by ages of brides and grooms.

**Deaths**

This section includes information on all deaths by census area and Native regional corporation boundaries; death rates; causes of death; and age, gender, and race of decedents.

**References**

This section lists the sources from which information has been used or referenced in this report.

**Appendices**

The appendices include definitions of terms, technical notes, classification of causes of death, prenatal care index, method of determining child's race, Year 2000 health objectives, sample certificates, maps of Alaska, population statistics, and sources for additional data.

**HOW TO OBTAIN A COPY**

The 1998 Annual Report of the Bureau of Vital Statistics is available at many local libraries throughout the state and on the internet at <http://www.hss.state.ak.us/dph/bvs/annrpt/ar1998/annrpt.htm>. We welcome any comments, questions, or concerns you may have about this report. You may contact us at:

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Division of Public Health  
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**ADDITIONAL INFORMATION**

Additional information, including how to obtain copies of vital event certificates, is available on the internet at [http://health.hss.state.ak.us/dph/bvs/bvs\\_home.htm](http://health.hss.state.ak.us/dph/bvs/bvs_home.htm). The Research Unit is also available for special research projects on vital statistics data by special request. For non-governmental organizations the fee for research is \$70/hour. Please contact the Research Unit at:

Phone: (907) 465-8602  
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Email: [BVSResearch@health.state.ak.us](mailto:BVSResearch@health.state.ak.us)

**ACKNOWLEDGMENTS**

Most of the data and health indicators presented in this report are based upon information supplied by many people throughout the state. Birth mothers, doctors, midwives, other birth attendants, medical facilities, medical examiners, magistrates, funeral directors, and a host of other individuals complete information on vital records.

The staff of the Bureau of Vital Statistics extends our gratitude to each person who participated in our data gathering effort. Accurate data are essential to the Bureau's efforts to report reliable vital event information. We appreciate the assistance of others in maintaining the integrity of our data.

# EXECUTIVE SUMMARY

## SUMMARY OF POPULATION AND VITAL STATISTICS INFORMATION

| Alaska's Population                  |                      |
|--------------------------------------|----------------------|
| Total Population . . . . .           | 617,082 <sup>1</sup> |
| White . . . . .                      | 456,271              |
| Native . . . . .                     | 103,361 <sup>2</sup> |
| African American . . . . .           | 27,460               |
| Asian and Pacific Islander . . . . . | 29,990               |
| Male . . . . .                       | 321,184              |
| Female . . . . .                     | 295,898              |
| Natural Increase . . . . .           | 7,341 <sup>3</sup>   |
| Natural Increase Rate . . . . .      | 11.9 <sup>4</sup>    |

| Births  |                   |
|---|-------------------|
| Total Births . . . . .                          | 9,920             |
| Crude Birth Rate . . . . .                      | 16.3 <sup>4</sup> |
| White Birth Rate . . . . .                      | 14.5              |
| Native Birth Rate . . . . .                     | 23.4              |
| African American Birth Rate . . . . .           | 14.4              |
| Asian/Pacific Islander Birth Rate . . . . .     | 16.1              |
| Teen Birth Rate . . . . .                       | 48.4 <sup>8</sup> |
| Fertility Rate . . . . .                        | 71.6 <sup>9</sup> |
| White Fertility Rate . . . . .                  | 65.1              |
| Native Fertility Rate . . . . .                 | 105.3             |
| African American Fertility Rate . . . . .       | 60.1              |
| Asian/Pacific Islander Fertility Rate . . . . . | 67.0              |
| Low Birth Weight Percentage . . . . .           | 5.6 <sup>10</sup> |
| White Low Birth Weight Percentage . . . . .     | 5.2               |
| Native Low Birth Weight Percentage . . . . .    | 5.6               |
| Afr/Am Low Birth Weight Percentage . . . . .    | 11.4              |
| Teenage Low Birth Weight Percentage . . . . .   | 6.3 <sup>11</sup> |

| Deaths  |                    |
|---|--------------------|
| Total Deaths . . . . .                          | 2,579              |
| Crude Death Rate . . . . .                      | 417.9 <sup>5</sup> |
| Age-Adjusted Death Rate . . . . .               | 460.1 <sup>6</sup> |
| Male Age-Adjusted Death Rate . . . . .          | 549.1              |
| Female Age-Adjusted Death Rate . . . . .        | 366.8              |
| Age-Adjusted Cancer Death Rate . . . . .        | 120.3              |
| Age-Adjusted Heart Disease Death Rate . . . . . | 100.2              |
| Age-Adjusted Accidental Death Rate . . . . .    | 42.0               |
| Age-Adjusted Suicide Death Rate . . . . .       | 23.7               |
| Infant Mortality Rate . . . . .                 | 7.4 <sup>7</sup>   |
| White Infant Mortality Rate . . . . .           | 5.9                |
| Native Infant Mortality Rate . . . . .          | 10.4               |

| Other Vital Events            |                  |
|-------------------------------|------------------|
| Fetal Deaths . . . . .        | 40               |
| Fetal Death Rate . . . . .    | 4.1 <sup>7</sup> |
| Adoptions . . . . .           | 777              |
| Crude Adoption Rate . . . . . | 1.3 <sup>4</sup> |
| Marriages . . . . .           | 5,105            |
| Crude Marriage Rate . . . . . | 8.3 <sup>4</sup> |
| Divorces . . . . .            | 3,329            |
| Crude Divorce Rate . . . . .  | 5.4 <sup>4</sup> |

### Notes

1. Alaska population data from the Alaska Department of Labor, Research and Analysis Section, Demographics Unit.
2. For purposes of this report, Native includes any person indigenous to the Western Hemisphere: Alaska Native, Native mixed, Aleut, Eskimo, Canadian Eskimo and Indian, and American Indian.
3. Natural Increase is the difference between live births and deaths. Natural Increase does not include migration.
4. Natural Increase, Birth, Marriage, Divorce, and Adoption Rates are events per 1,000 population.
5. Crude Death Rates are deaths per 100,000 population.
6. Age-Adjusted Death Rates are adjusted to the 1940 U.S. standard million population. (See Appendix A.)
7. Infant Mortality and Fetal Death Rates are 5-year averages (1994-1998) of infant deaths (death cohort) and fetal deaths per 1,000 live births.
8. Teen Birth Rate is the number of births to teens per 1,000 females 15-19 years of age. This does not include births to females under 15 years of age.
9. Fertility Rates are births per 1,000 females 15-44 years of age.
10. Low Birth Weight Percentages are 5-year averages per 100 live births.
11. Teenage Low Birth Weight Percentages include births to all mothers less than 20 years of age.





# INTRODUCTION

## ABOUT ALASKA

Alaska is the largest of the 50 states and contains approximately 16% of the country's land mass. Because of its size, Alaska has widely diverse geographic, climatic, and demographic characteristics, all of which affect public health.

Alaska contains roughly 586,412 square miles of land. Alaska's estimated population on July 1, 1997, was 611,300, or slightly more than one person per square mile. Alaska also claims the most northern, western and eastern points of land in the United States, more miles of coastline than all of the contiguous 48 states combined (6,640 miles not including islands), over 5,000 glaciers, over 3 million fresh water lakes (one of which, Iliamna, is the second largest in the U.S.), and 3,000 rivers, of which the Yukon is the third longest river in the United States. Much of the coastline and fresh water areas are used as transportation corridors, as well as fishing grounds. Remote lands are used for hunting and recreational activities.

Unique climatic conditions affect Alaska's people. Temperatures can range from as high as 100°F to lows that approach -80°F. Alaska experiences extremes in precipitation as well. Some areas of the state may receive up to 200 inches of precipitation annually, while other areas receive as little as 12 inches.

Demographically, whites make up 74.2 percent of the total population; Natives<sup>1</sup>, 16.7 percent, African American, 4.5 percent; and Asian and Pacific Islanders, 4.6 percent. Males comprise 52.1 percent and females, 47.9 percent of the population.<sup>2</sup>

With diverse cultures, sparse population, severe temperatures, vast coastline, and outdoor lifestyles, the state experiences many unique health care challenges. One such challenge is providing adequate medical care and health care assistance to residents who live in remote areas of the state. The Native Health Corporations, the Alaska Compact between the Indian Health Service and individual tribes, the State of Alaska, and private entities provide health care in these areas through funding for public health nurses and other health care workers.

The *Bureau of Vital Statistics 1998 Annual Report* focuses on health status indicators in Alaska. Some comparisons between Alaska health status indicators and national indicators are made. Although some similarities between Alaska and the rest of the United States exist, there are many dissimilarities. By reporting these indicators, our hope is to assist other professionals to evaluate the status of health in Alaska. The events and vital statistics discussed throughout this report can be useful tools for health care planners, providers, and professionals, but do not provide answers in themselves.

## HOW VITAL STATISTICS ARE COLLECTED

Section 18.50.010 of the Alaska Statutes establishes the Bureau of Vital Statistics to install, maintain, and operate a system of vital records. These records contain birth, death, fetal death, divorce, marriage, and adoption information.

When a birth occurs in Alaska, there is a legal process for recording that birth (AS 18.50.160). Generally, a physician, midwife, and/or hospital medical records staff person prepares a birth certificate from information provided by the birth mother and the delivery attendant.

Death certificates are usually completed by a funeral home staff member or a local magistrate, and then signed by the attending physician or medical examiner. Death certificates should be filed with the local recording district office within three days of the date of death (AS 18.50.230). After the certificate has been recorded at the local district office, it is then forwarded to the Bureau of Vital Statistics in Juneau for registration.

1 In this report, Native includes any people indigenous to the Western Hemisphere: Alaska Native, Native mixed, Aleut, Eskimo, Canadian Eskimo and Indian, and American Indian.

2 Alaska Department of Labor, Research and Analysis Section, Demographics Unit, Juneau, Alaska.

When a birth or death occurs in Alaska to a resident of another state, the Bureau sends the respective state's registrar a copy of the certificate. Similarly, when a birth or death occurs to an Alaskan resident in another state, that state's registrar, by formal agreement, sends a copy of the certificate to the Alaska Bureau of Vital Statistics. This cooperative arrangement allows us to include all births and deaths involving Alaskan residents wherever they occur within the country.

In the past, the Alaska Court System issued a license and filed a certificate for each marriage performed in the state. The certificate was filed with the local recording office of the Court System within seven days of the marriage (AS 18.50.270). The local recording office then forwarded the certificate to the Bureau for registration and permanent retention. In 1997 the Bureau of Vital Statistics began issuing marriage licenses in Juneau, Anchorage, and Fairbanks, as well as registering and providing permanent retention of documents. Marriage licenses in other parts of the state continue to be issued by the Court System under the bureau's oversight.

Divorce, dissolution, and annulment certificates are prepared by a clerk of the court from information provided by the petitioner, plaintiff, and (possibly) court documents. The completed certificate is then forwarded to the Bureau for final registration (AS 18.50.280).

For each adoption granted by the court, a report of adoption is prepared and registered with the Bureau (AS 18.50.210). In the event that a child was born in Alaska and adopted in another state, the Bureau receives and acts on that state's report of adoption.

## **POPULATION ESTIMATES**

Population estimates used in this report were obtained from the State of Alaska, Department of Labor (DOL), Research and Analysis Section (R&A), Demographics Unit. Estimates are made by race, age, and geographic area. The 1998 estimated Alaskan population was 617,082 persons, with 321,184 males and 295,898 females. During 1998 there were 108.5 males for every 100 females in Alaska.

The Alaska Department of Labor updates its population estimates annually. The estimate of total population is revised each year to correspond to the U.S. Census Bureau state total. Using the decennial census as a base, birth, death, IRS, Alaska Permanent Fund and education statistics are used to produce annual population estimates for geographic areas.

In Alaska during 1998, 456,271 persons were white, 103,361 were Native, 27,460 were African American, and 29,990 were Asian and Pacific Islander. Residents of the Anchorage census area comprised 41.7 percent of the state's population during 1998. About 78.9 percent of Alaska's population was concentrated in six census areas: Anchorage, Fairbanks, Juneau, Kenai, Ketchikan, and Matanuska-Susitna.

The age of a population is important when interpreting vital statistics, because behaviors and health risks of younger populations differ from those exhibited by older populations. Age, race, and sex distributions within a population are also important. The median age for Alaskan males during 1999 was 32.8 years; for females it was 32.3 years; and for all Alaskans it was 32.5 years. There was a difference of more than ten years in the median age of whites (34.8) and Alaska Natives (23.2).<sup>3</sup> The overall median age in the United States during 1998 was 35.2 years. The median age for males in the United States was 34.1 years and for females it was 36.3 years<sup>4</sup>. The median age for U.S. whites was 36.3 and for Native Americans it was 27.5. For an example of the disparity of the age distribution of Alaska versus that of the United States, please refer to Chart I.1 in Appendix I. For further information about interpretation of vital statistics, refer to "How to Use Vital Statistics" in Appendix B.

3 Ibid.

4 Day, Jennifer Cheeseman, *Population Projections of the United States by Age, Sex, Race, and Hispanic Origin: 1995 to 2050*, U.S. Bureau of the Census, Current Population Reports, P25-1130, U.S. Government Printing Office, Washington, DC, February, 1996, p. 46 (Alaska State Library U.S. Government Publications, reference C3.186).

## HOW CERTIFICATES ARE PROCESSED

In 1994, the Bureau instituted an Electronic Birth Certificate (EBC) system. This system enables hospital and clinic staff to record all birth certificate information by computer. As information is entered for each individual certificate, the computer checks for invalid or improbable data. When the certificate has been entered on the EBC system, the data is certified, recorded, and filed by the Bureau. Each certificate is then examined electronically for missing or out-of-range information and returned to the facility or birth attendant for verification and/or correction. During 1998, almost 97% of all births occurring in Alaska were recorded by EBC.

Other vital records received by the Bureau go through a different verification process. First, a trained documents processor reviews the certificate for completeness. If the certificate is incomplete it is returned to the appropriate office for completion. Once a document has been received and accepted, information is entered into the data base by two different employees. This double-entry verification process reduces data entry errors.

Causes of death are determined by a physician or medical examiner and narrative descriptions are entered on the death certificate. The narrative causes of death are typed into a computer file by Bureau staff. SuperMICAR, a program produced, maintained, and provided by National Center for Health Statistics (NCHS), codes 75-80 percent of causes of death according to ICD-9 standards. (See Appendix C for groupings of ICD-9 causes of death.) The bureau transmits the computer file by diskette or e-mail to NCHS. NCHS completes coding for the remainder of the records. This coding is then returned to the bureau and transmitted into its data base.

## HOW THIS REPORT WAS PREPARED

After documents have been entered into the Bureau's data base, research staff perform computer checks to test for missing, out-of-range, and duplicate data. Because this report is based not only on events which occur in Alaska, but also events which occur in other states to Alaska residents, there may be a significant lag time before data is received. One of the important checks made by research staff is for duplicate entries of events. Waiting for all data to arrive and eliminating duplicate entries are both important steps for ensuring the most accurate report possible. After we believe the data is both accurate and complete, data programs can be run to generate information from which the tables, charts, and narrative analyses can be written for this report.

There are a number of ways to report vital events including numbers of events, rates based on total populations, or rates based on specific populations. For a discussion of the use of vital statistics and a comparison of different populations, see Appendix B.

## DETERMINATION OF RACE

The National Center for Health Statistics (NCHS) issues guidelines for determining the race of a child at birth. With few exceptions, the child's race on the birth certificate is the same as the mother's stated race. These guidelines became effective in 1989. Appendix E provides more details on how the race of the child is determined.

Sometimes race will be recorded differently on death certificates. This can distort death rates, particularly in the case of infant mortality, where a child's race may be reported as white on the birth certificate because the mother is white, and Native on the death certificate because the father is Native. To ensure consistent reporting and calculation of rates, a new procedure was used in this report. All death certificates for decedents who were born in Alaska in 1989 or later are matched with the birth certificate and the child's race at birth is used for calculating deaths and death rates by race.

# FETAL & INFANT DEATHS



*"Priest, Yukon River"* copyright Rie MuZoz. Ltd.

## FETAL DEATHS

A fetal death is defined as the death of a fetus after the eighth week of gestation and before delivery. 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 20 weeks. The filing of certificates for fetal deaths which occur prior to the twentieth week of pregnancy is optional. This report 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.

TABLE 2.1A FETAL DEATHS BY CENSUS AREA OF MOTHER'S RESIDENCE, ALASKA, 1998

| CENSUS AREA OF MOTHER'S RESIDENCE | DEATHS |
|-----------------------------------|--------|
| ANCHORAGE BOROUGH                 | 16     |
| BETHEL                            | 2      |
| DILLINGHAM                        | 1      |
| FAIRBANKS NORTH STAR BOROUGH      | 6      |
| HAINES BOROUGH                    | 1      |
| JUNEAU BOROUGH                    | 2      |
| KENAI PENINSULA BOROUGH           | 3      |
| KODIAK ISLAND BOROUGH             | 3      |
| MATANUSKA-SUSITNA BOROUGH         | 1      |
| NOME                              | 1      |
| PRINCE OF WALES-OUTER KETCHIKAN   | 1      |
| WRANGELL-PETERSBURG               | 2      |
| YUKON-KOYUKUK                     | 1      |
| TOTAL                             | 40     |

TABLE 2.1B FETAL DEATHS BY NATIVE REGIONAL CORPORATION OF MOTHER'S RESIDENCE, ALASKA, 1998

| NATIVE REGIONAL CORPORATION OF MOTHER'S RESIDENCE | DEATHS |
|---|--------|
| BERING STRAITS CORP.                              | 1      |
| BRISTOL BAY CORP.                                 | 1      |
| CALISTA CORP.                                     | 2      |
| CHUGACH NATIVES INC.                              | 1      |
| COOK INLET REG CORP.                              | 19     |
| DOYON LTD.  | 7      |
| KONIAG INC.                                       | 3      |
| SEALASKA CORP.                                    | 6      |
| TOTAL   | 40     |

TABLE 2.1C FETAL DEATHS AND FETAL DEATH RATE BY MOTHER'S RACE, ALASKA, 1994-1998

| MOTHER'S RACE | FETAL DEATHS |      |      |      |      |       | TOTAL BIRTHS | 1994-98 RATE |
|---------------|--------------|------|------|------|------|-------|--------------|--------------|
|               | 1994         | 1995 | 1996 | 1997 | 1998 | TOTAL |              |              |
| WHITE         | 30           | 25   | 25   | 26   | 23   | 129   | 34,295       | 3.8          |
| NATIVE        | 9            | 12   | 15   | 8    | 9    | 53    | 11,869       | 4.5          |
| AFR/AM        | 4            | 5    | 5    | 3    | 6    | 23    | 2,231        | 10.3         |
| ASIAN/PI      | 1            |      | 1    | 1    | 2    | 5     | 2,441        | 2.0          |
| TOTAL         | 44           | 42   | 46   | 38   | 40   | 210   | 50,836       | 4.1          |

TABLE 2.2 FETAL DEATHS BY AGE AND RACE OF MOTHER, ALASKA, 1998

| MOTHER'S AGE | MOTHER'S RACE |        |        |          | TOTAL |
|--------------|---------------|--------|--------|----------|-------|
|              | WHITE         | NATIVE | AFR/AM | ASIAN/PI |       |
| 18-19        | 2             | 1      |        |          | 3     |
| 20-24        | 7             | 4      | 4      | 1        | 16    |
| 25-29        | 7             | 1      | 1      | 1        | 10    |
| 30-34        | 4             | 1      |        |          | 5     |
| 35-39        | 2             | 1      | 1      |          | 4     |
| 40-44        | 1             | 1      |        |          | 2     |
| TOTAL        | 23            | 9      | 6      | 2        | 40    |

TABLE 2.3 FETAL DEATHS BY LENGTH OF GESTATION AND WEIGHT, ALASKA, 1998

| GESTATION   | WEIGHT IN GRAMS |         |           |           |           |           |       |     | TOTAL |
|-------------|-----------------|---------|-----------|-----------|-----------|-----------|-------|-----|-------|
|             | <500            | 500-900 | 1000-1499 | 1599-1999 | 2000-2499 | 2500-4000 | 4000+ | UNK |       |
| 20-24 WEEKS | 7               | 2       |           |           |           |           | 1     | 2   | 12    |
| 25-28 WEEKS | 2               | 2       | 1         |           |           |           |       |     | 5     |
| 29-32 WEEKS |                 | 2       |           | 1         |           |           |       | 2   | 5     |
| 33-36 WEEKS |                 |         | 1         | 2         | 1         | 1         |       |     | 5     |
| 37-41 WEEKS |                 |         |           |           | 1         | 10        |       | 1   | 12    |
| 42+ WEEKS   |                 |         |           |           | 1         |           |       |     | 1     |
| TOTAL       | 9               | 6       | 2         | 3         | 3         | 11        | 1     | 5   | 40    |

### INFANT DEATHS

Infant deaths are defined as deaths which occur after a live birth and before an individual's first birthday. Infant mortality may be calculated by either of two methods: *birth cohort* or *death cohort*. The *birth cohort* method is calculated based on a comparison of the number of infants born in a calendar year with the number of those infants who die before reaching their first birthday. The *death cohort* method is calculated by dividing the number of infants who die in a calendar year by the number of infants born in that same 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 that same year. The death cohort calculation includes infants who died in the report year (1998) but were born in the previous year, and excludes infants who were born in the report year but die in the next year. In this report, the birth cohort method is calculated on births from calendar year 1997. Birth cohort calculations are not included for 1998 in this report because not all 1999 death records were complete at the time this report was compiled.

The death cohort method is used in this report for calendar year 1998. This method compares the number of deaths of infants who died during 1998 prior to their first birthday with the number of infants who were born in 1998.

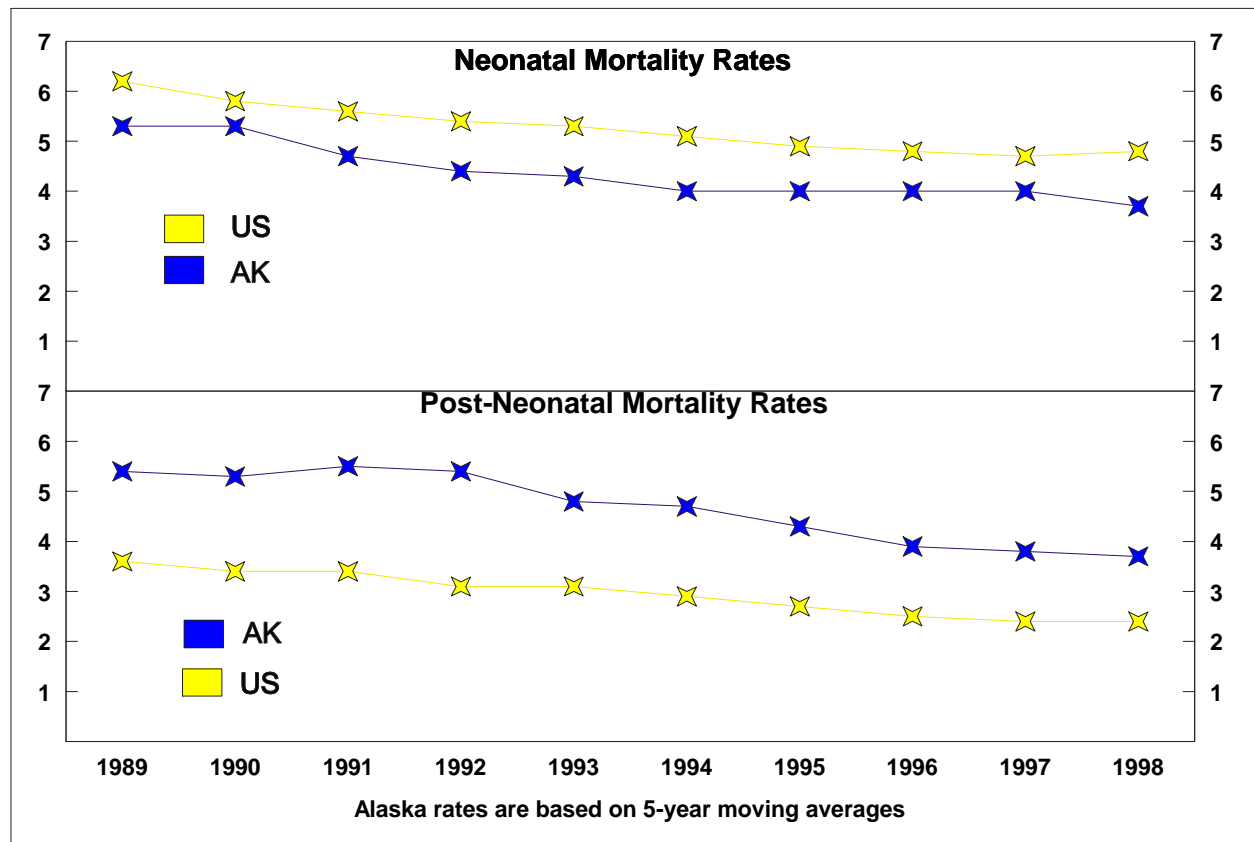
### Infant Mortality Rates

Using the death cohort, the total number of infant deaths during 1998 was 59. This is a 22.4 percent decrease from 76 infant deaths during 1997.<sup>1</sup> Since relatively small changes in infant deaths can cause large fluctuations in the infant mortality rate (IMR) from one year to the next, Alaska's annual IMR is calculated on a five-year moving average. The 1994-1998 five-year average infant mortality rate was 7.4 deaths per 1,000 live births, down from 7.8 deaths per 1,000 live births for 1993-1997. The U.S. infant mortality rate of 7.2 deaths per 1,000 live births in 1998 is the same as in 1997.<sup>2</sup> Both the U.S. and Alaska infant mortality rates have been steadily decreasing in recent years, and both are now at the lowest rates ever recorded.

In 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 neonatal mortality rate has generally been lower than the neonatal mortality rate for the United States, while its postneonatal mortality rate has been higher. Chart 2.1 provides a graphic comparison of the neonatal and postneonatal rates for Alaska and the United States.

- 1 Crondahl, J., Mitchell, P., Zenk, A., and Walden, S. Department of Health and Social Services, Division of Public Health, *Alaska Bureau of Vital Statistics 1997 Annual Report*, Juneau, Alaska, December 1998, p.53.
- 2 National Center for Health Statistics, U.S. Department of Health and Human Services, "Births and Deaths: Preliminary Data for 1998," *National Vital Statistics Report, Vol. 47, No. 25, October 5, 1999, Table 15, p. 32.*

CHART 2.1 NEONATAL AND POSTNEONATAL MORTALITY RATES PER 1,000 LIVE BIRTHS, ALASKA AND THE UNITED STATES, 1989-1998 (DEATH COHORT METHOD)



United States rates are single year rates and are provided by the National Center for Health Statistics.<sup>3</sup> Alaska infant mortality rates are calculated using five-year moving averages per 1,000 live births and are based on the death-cohort method.

Chart 2.2 compares confidence intervals for infant mortality in individual census areas against the statewide average. When smaller populations, such as individual census areas, are analyzed, ten-year averages and 95 percent confidence intervals are used. The calculated infant mortality rate occurs at the midpoint of the confidence interval. The smaller the population, the larger the confidence interval. (For a detailed discussion of confidence intervals and statistical significance, refer to Appendix B.)

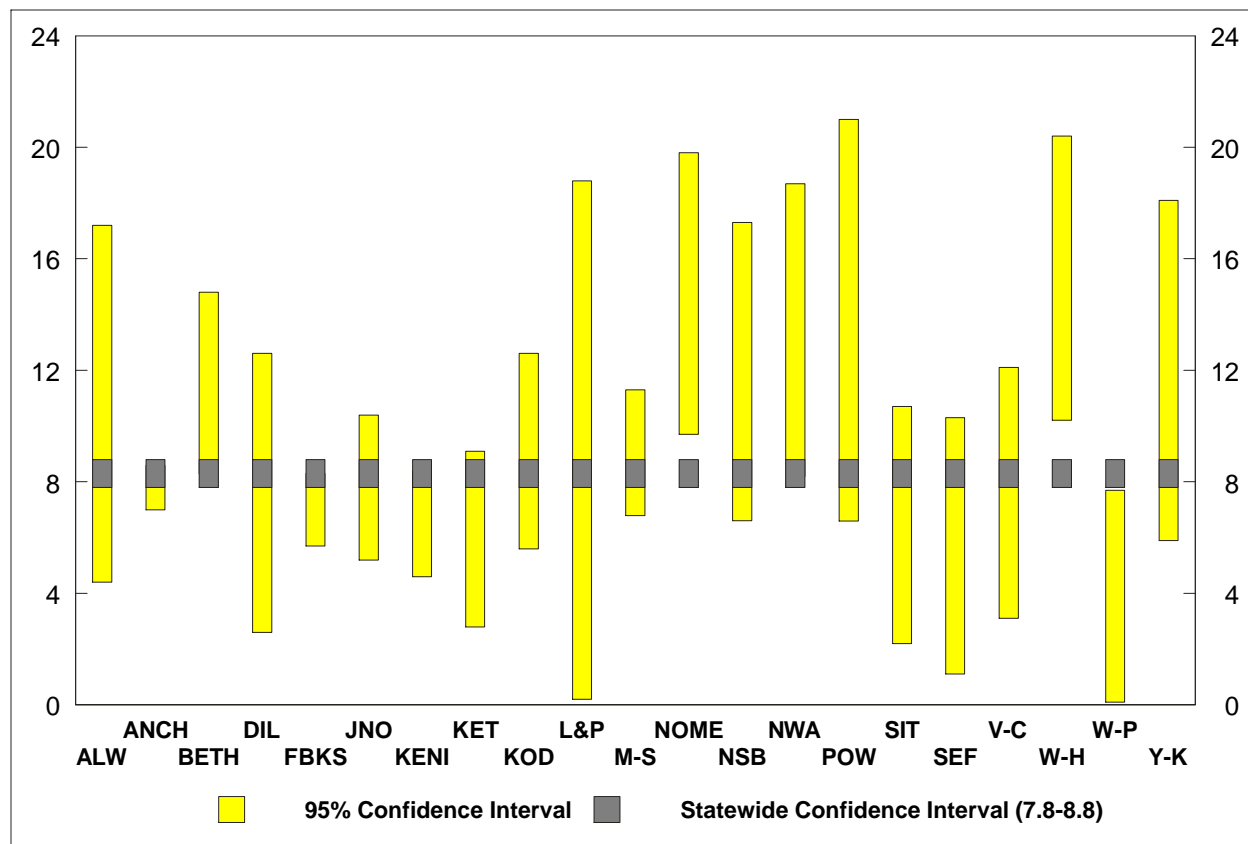
Several census areas (Aleutians East, Bristol Bay, Denali, Haines Borough, Skagway-Hoonah-Angoon, and Yakutat) have been omitted from Chart 2.2 because occurrences of infant mortality are too few for rates to be reliable. Those census areas which have infant mortality rates significantly above the statewide 95% confidence interval of 7.8 to 8.8 deaths per 1,000 live births are Nome and Wade Hampton. Only Wrangell-Petersburg had a rate significantly below the statewide 95% confidence interval. The confidence intervals for all other areas fell at least partly within the range of the statewide average. The evidence suggests no difference in those cases.

3 Ibid., Table 14, p. 31.



# FETAL AND INFANT DEATHS (continued) Alaska Bureau of Vital Statistics

CHART 2.2 95% CONFIDENCE INTERVALS FOR INFANT MORTALITY BY CENSUS AREA, ALASKA, 1989-1998 (DEATH COHORT)



Key for Chart 2.2

ALW Aleutians West  
 ANCH Anchorage  
 BETH Bethel  
 DIL Dillingham  
 FBKS Fairbanks  
 JNO Juneau  
 KENI Kenai

KET Ketchikan  
 KOD Kodiak  
 L&P Lake & Peninsula  
 M-S Matanuska-Susitna  
 NOME Nome  
 NSB North Slope Borough  
 NWA Northwest Arctic

POW Prince of Wales/Outer Ketchikan  
 SIT Sitka  
 SEF Southeast Fairbanks  
 V-C Valdez/Cordova  
 W-H Wade Hampton  
 W-P Wrangell/Petersburg  
 Y-K Yukon Koyukuk

## Infant Deaths by Age

TABLE 2.4A INFANT DEATHS BY CENSUS AREA OF DECEDENT'S RESIDENCE AND AGE, ALASKA, 1998 (DEATH COHORT METHOD)

| CENSUS AREA OF DECEDENT'S RESIDENCE | DECEDENT'S AGE |               | TOTAL |
|-------------------------------------|----------------|---------------|-------|
|                                     | NEONATAL       | POST-NEONATAL |       |
| ALEUTIANS WEST                      | 2              |               | 2     |
| ANCHORAGE BOROUGH                   | 14             | 15            | 29    |
| BETHEL                              | 1              | 1             | 2     |
| DILLINGHAM                          | 1              |               | 1     |
| FAIRBANKS NORTH STAR BOROUGH        | 1              | 2             | 3     |
| JUNEAU BOROUGH                      | 2              |               | 2     |
| KENAI PENINSULA BOROUGH             | 1              | 3             | 4     |
| KODIAK ISLAND BOROUGH               | 1              | 3             | 4     |
| MATANUSKA-SUSITNA BOROUGH           | 1              | 1             | 2     |
| NOME                                | 1              | 2             | 3     |
| NORTH SLOPE BOROUGH                 | 1              |               | 1     |
| NORTHWEST ARCTIC BOROUGH            | 1              | 1             | 2     |
| PRINCE OF WALES-OUTER KETCHIKAN     |                | 1             | 1     |
| SKAGWAY-HOONAH-ANGOON               | 1              |               | 1     |
| WADE HAMPTON                        | 1              | 1             | 2     |
| TOTAL                               | 29             | 30            | 59    |

TABLE 2.4B INFANT DEATHS BY NATIVE REGIONAL CORPORATION OF DECEDENT'S RESIDENCE AND AGE, ALASKA, 1998 (DEATH COHORT METHOD)

| NATIVE REGIONAL CORPORATION OF DECEDENT'S RESIDENCE | DECEDENT'S AGE |               | TOTAL |
|---|----------------|---------------|-------|
|   | NEONATAL       | POST-NEONATAL |       |
| ALEUT CORP.   | 2              |               | 2     |
| ARCTIC SLOPE CORP.                                  | 1              |               | 1     |
| BERING STRAITS CORP.                                | 1              | 2             | 3     |
| BRISTOL BAY CORP.                                   | 1              |               | 1     |
| CALISTA CORP.                                       | 2              | 2             | 4     |
| COOK INLET REG CORP.                                | 16             | 19            | 35    |
| DOYON LTD.  | 1              | 2             | 3     |
| KONIAG INC.   | 1              | 3             | 4     |
| NANA REGIONAL CORP.                                 | 1              | 1             | 2     |
| SEALASKA CORP.                                      | 3              | 1             | 4     |
| TOTAL   | 29             | 30            | 59    |

**FETAL AND INFANT DEATHS (continued) Alaska Bureau of Vital Statistics**

TABLE 2.4C INFANT DEATHS BY RACE, SEX, AND AGE OF DECEDENT, ALASKA, 1998 (DEATH COHORT METHOD)

| DECEDENT'S RACE | DECEDENT'S AGE |               | TOTAL |
|-----------------|----------------|---------------|-------|
|                 | NEONATAL       | POST-NEONATAL |       |
| WHITE           | 19             | 13            | 32    |
| NATIVE          | 8              | 10            | 18    |
| AFR/AM          |                | 6             | 6     |
| ASIAN/PI        | 2              | 1             | 3     |
| TOTAL           | 29             | 30            | 59    |

| DECEDENT'S SEX | DECEDENT'S AGE |               | TOTAL |
|----------------|----------------|---------------|-------|
|                | NEONATAL       | POST-NEONATAL |       |
| FEMALE         | 7              | 10            | 17    |
| MALE           | 22             | 20            | 42    |
| TOTAL          | 29             | 30            | 59    |

TABLE 2.5A INFANT DEATHS BY CENSUS AREA OF DECEDENT'S RESIDENCE AND AGE, ALASKA, BIRTH YEAR 1997 (BIRTH COHORT METHOD)

| CENSUS AREA OF DECEDENT'S RESIDENCE | DECEDENT'S AGE |               | TOTAL |
|-------------------------------------|----------------|---------------|-------|
|                                     | NEONATAL       | POST-NEONATAL |       |
| ANCHORAGE BOROUGH                   | 13             | 13            | 26    |
| BETHEL                              | 3              | 3             | 6     |
| FAIRBANKS NORTH STAR BOROUGH        | 7              | 3             | 10    |
| JUNEAU BOROUGH                      | 1              | 1             | 2     |
| KENAI PENINSULA BOROUGH             | 2              | 1             | 3     |
| KETCHIKAN GATEWAY BOROUGH           |                | 2             | 2     |
| KODIAK ISLAND BOROUGH               | 1              |               | 1     |
| MATANUSKA-SUSITNA BOROUGH           | 3              | 4             | 7     |
| NOME                                | 2              | 3             | 5     |
| PRINCE OF WALES-OUTER KETCHIKAN     | 1              | 1             | 2     |
| SOUTHEAST FAIRBANKS                 | 1              |               | 1     |
| WADE HAMPTON                        | 1              | 2             | 3     |
| WRANGELL-PETERSBURG                 | 1              |               | 1     |
| TOTAL                               | 36             | 33            | 69    |

TABLE 2.5B INFANT DEATHS BY NATIVE REGIONAL CORPORATION OF DECEDENT'S RESIDENCE AND AGE, ALASKA, BIRTH YEAR 1997 (BIRTH COHORT METHOD)

| NATIVE REGIONAL CORPORATION OF DECEDENT'S RESIDENCE | DECEDENT'S AGE |               | TOTAL |
|---|----------------|---------------|-------|
|   | NEONATAL       | POST-NEONATAL |       |
| BERING STRAITS CORP.                                | 2              | 3             | 5     |
| CALISTA CORP.                                       | 4              | 5             | 9     |
| COOK INLET REG CORP.                                | 18             | 18            | 36    |
| DOYON LTD.  | 8              | 3             | 11    |
| KONIAG INC.   | 1              |               | 1     |
| SEALASKA CORP.                                      | 3              | 4             | 7     |
| TOTAL   | 36             | 33            | 69    |

TABLE 2.5C INFANT DEATHS BY RACE, SEX, AND AGE OF DECEDENT, ALASKA, BIRTH YEAR 1997 (BIRTH COHORT METHOD)

| DECEDENT'S RACE | DECEDENT'S AGE |               | TOTAL |
|-----------------|----------------|---------------|-------|
|                 | NEONATAL       | POST-NEONATAL |       |
| WHITE           | 20             | 15            | 35    |
| NATIVE          | 11             | 16            | 27    |
| AFR/AM          | 3              |               | 3     |
| ASIAN/PI        | 2              | 2             | 4     |
| TOTAL           | 36             | 33            | 69    |

| DECEDENT'S RACE | NEONATAL | POST-NEONATAL | TOTAL |
|-----------------|----------|---------------|-------|
| FEMALE          | 12       | 17            | 29    |
| MALE            | 24       | 16            | 40    |
| TOTAL           | 36       | 33            | 69    |

**Infant Mortality Rates by Race**

Table 2.6A shows 5-year moving average infant mortality rates by race for the years 1994 through 1998. To ensure consistent reporting and calculation of rates by race, all death certificates for decedents who were born in Alaska in 1989 or later are matched with the birth certificate and the child's race at birth is used for calculating deaths and death rates by race.

TABLE 2.6A BIRTHS AND INFANT DEATHS (DEATH COHORT METHOD) BY DEATH YEAR AND FIVE-YEAR MOVING AVERAGE INFANT MORTALITY RATES BY RACE, ALASKA, 1994-1998

| RACE     | 1994   |      |           | 1995   |      |           | 1996   |      |           | 1997  |      |           | 1998  |      |           |
|----------|--------|------|-----------|--------|------|-----------|--------|------|-----------|-------|------|-----------|-------|------|-----------|
|          | BTHS   | DTHS | 5-YR RATE | BTHS   | DTHS | 5-YR RATE | BTHS   | DTHS | 5-YR RATE | BTHS  | DTHS | 5-YR RATE | BTHS  | DTHS | 5-YR RATE |
|          |        |      | 1990-1994 |        |      | 1991-1995 |        |      | 1992-1996 |       |      | 1993-1998 |       |      |           |
| WHITE    | 7,371  | 44   | 6.9       | 6,985  | 43   | 6.6       | 6,713  | 40   | 6.3       | 6,597 | 42   | 6.1       | 6,629 | 32   | 5.9       |
| NATIVE   | 2,346  | 28   | 14.0      | 2,304  | 26   | 12.6      | 2,407  | 25   | 11.9      | 2,398 | 27   | 11.7      | 2,414 | 18   | 10.4      |
| AFR/AM   | 497    | 5    | 10.5      | 449    | 6    | 10.8      | 435    | 5    | 11.2      | 455   | 4    | 11.2      | 395   | 6    | 11.7      |
| ASIAN/PI | 468    | 5    | 9.3       | 485    | 8    | 10.0      | 494    | 3    | 9.9       | 512   | 4    | 10.5      | 482   | 3    | 9.4       |
| TOTAL    | 10,682 | 82   | 8.8       | 10,223 | 83   | 8.3       | 10,049 | 73   | 8.0       | 9,962 | 77   | 7.8       | 9,920 | 59   | 7.4       |

## FETAL AND INFANT DEATHS (continued) Alaska Bureau of Vital Statistics

TABLE 2.6B      INFANT DEATHS (DEATH COHORT METHOD) BY DEATH YEAR, BIRTH WEIGHT, AND AGE AT DEATH (NEONATAL OR POST-NEONATAL), AND INFANTS SURVIVING FIRST YEAR OF LIFE BY BIRTH YEAR AND BIRTH WEIGHT, 1989-1998

| YEAR | BIRTH WEIGHT IN GRAMS AND AGE |     |     |         |     |     |           |     |     |           |     |     |           |     |       |       |     |       |         |     |     | TOTAL  |
|------|-------------------------------|-----|-----|---------|-----|-----|-----------|-----|-----|-----------|-----|-----|-----------|-----|-------|-------|-----|-------|---------|-----|-----|--------|
|      | <500                          |     |     | 500-999 |     |     | 1000-1499 |     |     | 1500-2499 |     |     | 2500-3999 |     |       | 4000+ |     |       | UNKNOWN |     |     |        |
|      | NN*                           | PNN | SUR | NN      | PNN | SUR | NN        | PNN | SUR | NN        | PNN | SUR | NN        | PNN | SUR   | NN    | PNN | SUR   | NN      | PNN | SUR |        |
| 1989 | 7                             |     |     | 14      | 2   | 25  | 9         | 4   | 40  | 6         | 7   | 459 | 12        | 38  | 9,179 |       | 5   | 1,827 | 3       | 2   | 21  | 11,660 |
| 1990 | 5                             |     |     | 17      | 1   | 38  | 8         | 1   | 43  | 9         | 9   | 444 | 20        | 48  | 9,393 |       | 3   | 1,856 | 1       | 3   | 1   | 11,900 |
| 1991 | 13                            |     | 2   | 9       | 2   | 22  | 3         |     | 44  | 7         | 8   | 432 | 8         | 41  | 9,227 | 1     | 9   | 1,853 | 1       | 4   | 2   | 11,688 |
| 1992 | 3                             |     |     | 13      | 1   | 28  | 6         | 2   | 57  | 5         | 6   | 453 | 18        | 38  | 9,207 |       | 5   | 1,871 | 1       | 2   | 11  | 11,727 |
| 1993 | 5                             |     |     | 15      | 1   | 21  | 3         | 3   | 52  | 8         | 5   | 434 | 12        | 29  | 8,729 | 4     | 1   | 1,744 | 3       | 1   | 19  | 11,089 |
| 1994 | 5                             |     | 2   | 9       | 2   | 28  | 4         | 1   | 57  | 2         | 5   | 473 | 9         | 36  | 8,303 |       | 4   | 1,705 | 5       |     | 32  | 10,682 |
| 1995 | 8                             |     | 1   | 14      |     | 18  | 6         | 3   | 46  | 6         | 4   | 436 | 13        | 22  | 8,057 | 2     |     | 1,553 | 2       | 3   | 29  | 10,223 |
| 1996 | 8                             |     |     | 11      | 1   | 28  |           | 1   | 44  | 5         | 3   | 446 | 9         | 24  | 7,901 | 2     | 6   | 1,541 | 1       | 2   | 16  | 10,049 |
| 1997 | 7                             |     | 3   | 10      | 6   | 33  | 2         | 1   | 57  | 4         | 6   | 453 | 9         | 23  | 7,815 | 2     | 4   | 1,493 | 2       | 1   | 31  | 9,962  |
| 1998 | 4                             |     | 3   | 11      | 2   | 27  | 6         |     | 70  | 3         | 4   | 460 | 4         | 20  | 7,765 |       | 2   | 1,510 | 1       | 2   | 26  | 9,920  |

\* NN = Neonatal death; PNN = Post-neonatal death; SUR = survived first year of life.

### Infant Deaths by Cause of Death

Although the same coding system (ICD9) is used in reporting causes of death for infants and the general population, the codes are grouped differently since causes of death for infants up to one year of age differ from those in the general population. For specific causes of death for infant mortality refer to Appendix C, Table C.3.

Certain causes of death are associated with factors such as age and birth weight. For instance, Sudden Infant Death Syndrome (SIDS) almost always occurs in the postneonatal period. Respiratory Distress Syndrome generally occurs in low birth weight infants. The single greatest cause of infant death in Alaska is Sudden Infant Death Syndrome. In the five-year period from 1994 through 1998, 89 infants were reported to have died of SIDS, a rate of 1.8 per thousand live births. This is the same as 1993-1997. This compares with a rate of 0.6 per thousand live births for the United States in 1998.<sup>4</sup> The United States rate for SIDS deaths dropped 45.5% since 1994 when the rate was 1.1 deaths per thousand live births.

Because of its mysterious nature, Sudden Infant Death Syndrome can never be positively determined; rather, it is a diagnosis which occurs after other causes of death have been ruled out. What we can say about SIDS is that it affects normally healthy, sleeping infants under one year of age. One potential risk factor for SIDS is putting infants to sleep on their stomachs (the prone position).<sup>5</sup>

4 Ibid., Table 15, p.32.

5 Willinger, Marian, Ph.D., Hoffman, H., M.A., and Hartford, R., Ph.D., "Infant Sleep Position and Risk for Sudden Infant Death Syndrome: Report of Meeting Held January 13 and 14, 1994," National Institutes of Health, Bethesda, MD, *Pediatrics*, Vol. 93, No. 5, May 1994, p. 814.

TABLE 2.7      INFANT DEATHS BY SELECTED CAUSES OF DEATH AND AGE, ALASKA, 1998 (DEATH COHORT METHOD)

| CAUSE OF DEATH  | AGE AT DEATH |               | TOTAL |
|---|--------------|---------------|-------|
|   | NEONATAL     | POST-NEONATAL |       |
| SEPTICEMIA  |              | 1             | 1     |
| BLOOD AND BLOOD-FORMING ORGAN DISEASES                      | 1            |               | 1     |
| BRONCHITIS AND BRONCHIOLITIS                                | 1            |               | 1     |
| GASTRITIS,DUODENITIS,AND NONINFECTIVE ENTERITIS AND COLITIS |              | 1             | 1     |
| CONGENITAL ANOMALIES  | 9            | 4             | 13    |
| MATERNAL COMPLICATIONS OF PREGNANCY                         | 1            |               | 1     |
| PLACENTA,CORD,AND MEMBRANE COMPLICATIONS                    | 3            |               | 3     |
| LABOR & DELIVERY: OTHER COMPLICATIONS                       | 1            |               | 1     |
| SHORT GESTATION & LOW BIRTHWEIGHT RELATED DISORDERS         | 4            |               | 4     |
| INTRAUTERINE HYPOXIA & BIRTH ASPHYXIA                       | 2            |               | 2     |
| RESPIRATORY DISTRESS SYNDROME                               | 2            |               | 2     |
| HEMOLYTIC DISEASE OF NEWBORN                                | 1            |               | 1     |
| SIDS  |              | 18            | 18    |
| ACCIDENTS & ADVERSE EFFECTS                                 |              | 2             | 2     |
| ALL OTHER CAUSES  | 4            | 4             | 8     |
| TOTAL   | 29           | 30            | 59    |

TABLE 2.8      INFANT DEATHS BY SELECTED CAUSES OF DEATH AND RACE, ALASKA, 1998 (DEATH COHORT METHOD)

| CAUSE OF DEATH  | RACE  |        |        |          | TOTAL |
|---|-------|--------|--------|----------|-------|
|   | WHITE | NATIVE | AFR/AM | ASIAN/PI |       |
| SEPTICEMIA  |       |        | 1      |          | 1     |
| BLOOD AND BLOOD-FORMING ORGAN DISEASES                      | 1     |        |        |          | 1     |
| BRONCHITIS AND BRONCHIOLITIS                                |       | 1      |        |          | 1     |
| GASTRITIS,DUODENITIS,AND NONINFECTIVE ENTERITIS AND COLITIS |       | 1      |        |          | 1     |
| CONGENITAL ANOMALIES  | 10    | 3      |        |          | 13    |
| MATERNAL COMPLICATIONS OF PREGNANCY                         |       |        |        | 1        | 1     |
| PLACENTA,CORD,AND MEMBRANE COMPLICATIONS                    | 1     | 1      |        | 1        | 3     |
| LABOR & DELIVERY: OTHER COMPLICATIONS                       |       | 1      |        |          | 1     |
| SHORT GESTATION & LOW BIRTHWEIGHT RELATED DISORDERS         | 3     | 1      |        |          | 4     |
| INTRAUTERINE HYPOXIA & BIRTH ASPHYXIA                       | 2     |        |        |          | 2     |
| RESPIRATORY DISTRESS SYNDROME                               |       | 2      |        |          | 2     |
| HEMOLYTIC DISEASE OF NEWBORN                                | 1     |        |        |          | 1     |
| SIDS  | 9     | 5      | 4      |          | 18    |
| ACCIDENTS & ADVERSE EFFECTS                                 | 1     |        |        | 1        | 2     |
| ALL OTHER CAUSES  | 4     | 3      | 1      |          | 8     |
| TOTAL   | 32    | 18     | 6      | 3        | 59    |

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## APPENDIX A: DEFINITION OF TERMS

**Age-Adjusted Birth Rate.** A summary of age-specific birth rates standardized to one age distribution (usually 1940 standard million population). This summary allows comparisons to be made between populations with different age distributions. (See Appendix B for specific instructions on calculating age-adjusted rates.)

**Age-Adjusted Death Rate.** A summary of age-specific death rates standardized to one age distribution (usually 1940 standard million population). This summary allows comparisons to be made between populations with different age distributions. (See Appendix B for specific instructions on calculating age-adjusted rates.)

**Age-Specific Birth Rate.** The number of live births for a specific age group divided by the population for the same specific age group, multiplied by a constant of proportionality (usually 1,000).

**Age-Specific Death Rate.** The number of deaths for a specific age group divided by the population for the same specific age group, multiplied by a constant of proportionality (usually 100,000).

**Birth Cohort Infant Mortality Rate.** The birth cohort method of calculating the infant mortality tracks all infants born within a calendar year throughout their first year of life. When calculating 1995 infant mortality, all infants who were born during 1995 and died prior to their first birthday, whether in 1995 or in 1996, are counted in the birth cohort. In this report, birth cohort has been calculated for infants born in 1995, since data on deaths is complete only through 1996. (See also Death Cohort Infant Mortality Rate.)

**Birth Weight.** Weight of the infant when born, usually reported in grams.

**Cause of Death.** The cause of death reported is the underlying cause of death and is based on information contained on the death certificate, defined by the World Health Organization's *International Classification of Diseases - Ninth Revision* as the disease or injury which initiated the train of morbid events leading directly to death, or the circumstances of the accident or violence which produced the fatal injury. See Appendix C for specific categories.

**Cause Specific Death Rate.** The number of deaths due to a specific cause of death divided by the estimated total population, multiplied by a constant of proportionality (usually 100,000).

**Constant of Proportionality.** An arbitrary number (often 1,000 or 100,000) which is used for calculating a rate so that comparisons are possible and more understandable. (It is easier to compare 21.7 to 21.3 than it is to compare 0.0217 to 0.0213.)

**Crude Birth Rate.** The number of live births divided by the estimated population, multiplied by a constant of proportionality (usually 1,000).

**Crude Death Rate.** The number of deaths divided by the estimated population, multiplied by a constant of proportionality (usually 100,000).

**Crude Divorce Rate.** The number of divorces of all types (divorces, dissolutions, and annulments) divided by the estimated population, multiplied by a constant of proportionality (usually 1,000).

**Crude Marriage Rate.** The number of marriages divided by the estimated population, multiplied by a constant of proportionality (usually 1,000).

**Death Cohort Infant Mortality Rate.** The death cohort method is determined by dividing the number of infant deaths by the number of live births in a calendar year. For example, to calculate the death cohort infant mortality rate for 1996, divide the number of infant deaths that occurred in 1996 by the number of live births that occurred during 1996, and multiply the result by a constant of proportionality (usually 1,000). By using the death cohort infant mortality method, some infant deaths will be counted in 1996 when the infant was actually born in 1995. Other deaths to infants born in 1996 who died before their first birthday in 1997 will not be counted. Since the death cohort method of calculating infant mortality does not reflect the number of infant deaths experienced by infants born in a given year, the birth cohort is the preferred calculation method.

**Expectation of Life.** Expectation of life (life expectancy) is the number of years infants born in a specific year can expect to live if they experience the same age-specific death rates experienced during their birth year. (See Appendix B for explanation of calculation.)

**Fertility Rate.** The total number of live births divided by the number of women in the estimated population between ages 15 and 44, multiplied by a constant of proportionality (usually 1,000).

**Gestation.** The period beginning with the first day of the last normal menstrual period and ending with the day of birth. Births occurring between 37 and 41 weeks gestational age are considered full-term.

**ICD-9.** *International Classification of Diseases - Ninth Revision.* The official classification system which codifies all diseases and injuries. ICD-9 has been in use since 1979. All deaths previous to 1979 were coded using ICD-8. (Refer to Appendix C.)

**Infant Deaths.** Number of infants who died before their first birthday.

**Infant Mortality Rate (IMR).** The number of infant deaths divided by the number of live births, multiplied by a constant of proportionality (usually 1,000). There are two ways of calculating the IMR: birth cohort and death cohort. The infant mortality rate is the same as the sum of the neonatal infant mortality rate and the post-neonatal infant mortality rate.

**Life Expectancy.** See *Expectation of Life*.

**Live Birth.** A birth where the baby exhibits signs of life after delivery. These signs include breathing, beating of the heart, pulsation of the umbilical cord and movement of voluntary muscles.

**Location of Occurrence.** The place or location where a vital event occurred.

**Location of Residence.** Most tables report Alaska resident information and are based upon or are categorized by place of residence. The location of actual residence (i.e., census area or Native regional corporation) is not necessarily the same as a person's "legal residence." The location of residence during a tour of military duty or while attending college is considered actual residence.

**Low Birth Weight.** An infant born weighing less than 2,500 grams. Also see "very low birth weight."

**Low Birth Weight Percentage.** The number of infants born weighing less than 2,500 grams divided by the number of live births, multiplied by 100. In this report, low birth weight percentages are calculated for a five-year period (1992-1996).

**Native.** Includes Alaska Natives, Native mixed, Aleuts, Eskimos, Canadian Eskimos and Indians, and American Indians.

**Natural Increase.** Population change that results when the number of births exceeds the number of deaths. Natural increase does not include population changes as a result of migration in and out of Alaska.

**Neonatal Infant Mortality Rate.** The number of deaths to infants less than 28 days of age divided by the number of live births, multiplied by a constant of proportionality (usually 1,000). The sum of the neonatal infant mortality rate and the post-neonatal mortality rate is the infant mortality rate.

**Perinatal Period.** The period of time from the 28th week of gestation up to the 28th day after birth.

**Post-neonatal Infant Mortality Rate.** The number of deaths to infants from 28 days to 1 year of age divided by the number of live births, multiplied by a constant of proportionality (usually 1,000). The sum of the neonatal infant mortality rate and the post-neonatal mortality rate is the infant mortality rate.

**Puerperium.** The period after delivery of placenta, which extends until the organs of reproduction have returned to normal, usually 6 to 8 weeks.

**Race of Child.** First reported race of mother is the race of the child. Prior to 1989, races of both parents were taken into consideration when determining the race of the child using a look-up table. Beginning in 1989, the National Centers for Health Statistics (NCHS) recommended that all states adopt the same standard for determining the race of the child at birth. See Appendix E for more detailed information.

**Race/Sex-Specific Death Rate.** The number of deaths for a specific race and sex group, divided by the population for the same specific race and sex group, multiplied by a constant of proportionality (usually 100,000).

**Race-Specific Death Rate.** The number of deaths for a specific racial group divided by the population for the same specific racial group, multiplied by a constant of proportionality (usually 100,000).

**Ratio.** A ratio is a comparative statistic calculated by dividing the number of events experienced by one group by the number of events experienced by a comparable group (i.e., males to females).

**Residence.** See "Location of Residence."

**Sex-Specific Death Rate.** The number of deaths for a specific sex (male or female) divided by the population for the same sex, multiplied by a constant of proportionality (usually 100,000).

**Standard Million Population.** The 1940 standard one million population is used in this publication whenever age-adjusting occurs. It is as follows.

TABLE A.1            STANDARD MILLION POPULATION

| AGE          | POPULATION |
|--------------|------------|
| Under 1 year | 15,343     |
| 1-4 years    | 64,718     |
| 5-14 years   | 170,355    |
| 15-24 years  | 181,677    |
| 25-34 years  | 162,066    |
| 35-44 years  | 139,237    |
| 45-54 years  | 117,811    |
| 55-64 years  | 80,294     |
| 65-74 years  | 48,426     |
| 75-84 years  | 17,303     |
| 85 & over    | 2,770      |
| Total        | 1,000,000  |

**Teen Birth Rate.** The number of births to females ages 15-19 divided by the estimated population of females ages 15-19, multiplied by a constant of proportionality (usually 1,000).

**Underlying Cause of Death.** The disease or injury which initiated the sequence of events that led to death.

**Very Low Birth Weight.** Infants born weighing less than 1,500 grams.

**Years of Life Lost.** For all deaths occurring before age 65, the difference between 65 (assumed productive life span) and the age at death; sometimes referred to as "years of productive life lost). For calculation of years of life lost, see Appendix B.



# APPENDIX B: TECHNICAL NOTES

## HOW TO USE VITAL STATISTICS

### Vital Events

Vital events registered with the Bureau of Vital Statistics include live births, fetal deaths (after at least 20 weeks gestation), adoptions, marriages, divorces, and deaths. Information on each of these events is provided on standard forms. (See Appendix G.) Vital events do not include fetal deaths prior to the 20th week of gestation; living arrangements not formalized through adoption, marriage or divorce; or illnesses which do not result in death.

### Reliability of the Data

Reliability of information may vary depending on the data collection method. For instance, some information on birth and death certificates is collected and provided by health facilities or medical professionals (birth weight, complications of labor and delivery, cause of death, etc.), while other information is self-reported or reported by relatives (smoking during pregnancy, marital status of deceased, etc.). The Bureau of Vital Statistics makes every effort to complete, verify, and correct information which is missing, invalid, or inconsistent. Ultimately, the reliability of the data depends on everyone who is involved in data collection, storage and retrieval: Bureau staff, medical professionals, magistrates, funeral directors, marriage commissioners, judges, and each individual involved in, or witness to, a vital event.

### Counting Number of Events

The most basic data available is the number of events. In any analysis, the most pertinent information must be determined and the limitations of that information must be identified. For instance, if you wanted to predict public school kindergarten enrollment, the most pertinent vital event data would be the number of live births in the period which qualifies children for enrollment. You would want to count only resident births for the geographic area of the appropriate schools. You would also want to consider limitations of this data, such as effects of infant and preschool mortality (this information can be obtained from death data), in-migration and out-migration, and alternatives to public school enrollment.

### Comparing Different Populations

Comparing the number of events in two separate locations may not be meaningful. We can guess that Anchorage will have more births than Juneau because Anchorage has a larger population. A more meaningful question is, what is the number of births compared to the size of the population? To make this comparison, we calculate a *ratio* by dividing the number of events by the population for which that event could have occurred. For instance, if there were 4,200 births in Anchorage and a population of 280,000 people, then the ratio of births to population would be  $4200/280000$  or 0.015 births for every person living in Anchorage. If there were 500 births in Juneau and a population of 30,000 then the ratio of births to population in Juneau would be  $500/30000$  or 0.0166666 births for every person living in Juneau.

Since small decimal numbers are awkward to interpret, we change the ratio to a *rate* by multiplying it by a *constant of proportionality*. This constant of proportionality can be any number, as long as the same number is used in calculating every rate. To calculate birth rates, we usually use a constant of proportionality of 1,000. Using this method, the birth rate for Anchorage would be  $0.015 \times 1,000$  or 15 births per 1,000 population. The birth rate for Juneau would be  $0.0166666 \times 1,000$  or 16.6666 births per 1,000 population. This number is usually rounded to the nearest tenth (16.7). We can see that while there are fewer births in Juneau in this example, the rate per 1,000 population is greater.

The birth rates described in the last paragraph are *crude birth rates* because they compare events to total population. A more meaningful comparison would be to include in the population only women of child-bearing ages (15-44 years of age). We call this the *fertility rate*. This allows us to compare populations with different ratios of females of child-bearing ages. Let's assume that the number of women ages 15-44 in Anchorage is 66,500 and in Juneau is

7,300. The Anchorage fertility rate would be  $(4200/60000)*1000$  or 70.0 births for every 1,000 women of child-bearing age. The Juneau fertility rate would be  $(500/7300)*1000$  or 68.5 births for every 1,000 women of child-bearing age. While Anchorage would have a lower crude birth rate than Juneau in this example, the Anchorage fertility rate would be higher than for Juneau. This is because the ratio of women of childbearing age to the total population in Anchorage ( $66500/280000$  or .2375) is lower than in Juneau ( $7300/30000$  or .243333).

Please note that all of the numbers in the foregoing examples are hypothetical for purposes of illustration.

### Constant of Proportionality

In calculating crude birth rates and fertility rates, we used a constant of proportionality of 1,000. Vital statistics may be reported with different constants of proportionality. Readers should familiarize themselves with how rates are calculated so that validity is maintained when comparing rates. Unless rates are calculated with the same constant of proportionality, comparisons will lead to erroneous conclusions. For instance, in this report we calculate death rates per 100,000 population. If the National Center for Health Statistics (NCHS) reported deaths per 1,000 population, we would have to convert NCHS rates to 100,000 population for a valid comparison.

### Small Populations and Few Events

Data based upon small populations and few events require particular care in data analysis. In Alaska, variability is expected when looking at small groups within the population. Precautions are taken to avoid drawing false conclusions from random or unusual events. Two methods are used in this report to provide greater reliability: moving averages and confidence intervals. (For an explanation of each method, see “Vital Statistics Formulas” in Appendix B.)

## VITAL STATISTICS FORMULAS

### Age-Adjusted Rates

Age-adjusted rates are calculated so comparisons can be made between populations that have different age distributions. For example, “X” population which has a relatively high proportion of young people, generally will experience a lower crude death rate than “Y” population which is made up of a relatively high percentage of elderly. Age-adjusted rates are more appropriate than crude rates when comparing health indicators for populations that have different age distributions. The age-adjusted rates in this report were calculated using the standard million population based on the decennial U.S. Census of 1940. (See Standard Million Population in Appendix A.)

$$\text{age-adjusted death rate} = \hat{A} m_a (P_a / p)$$

where:  $\Sigma$  is sum

$m_a$  is the age-specific death rate

$P_a$  is the standard population for the age group

$p$  is the total standard population

### Confidence Intervals

In this report, confidence intervals are used to provide a range within which the true rate will fall with a probability of 95%. The size of the range is determined by the number of occurrences, the base population, and the standard error.

Using teen birth rate by census area as an example, refer to Chart 1.2B:

3-year births to teens ages 15-19 in 1995-1997 = 3,326 (*b*)

3-year annual female teen population in 1995-1997 = 63,687 (*p*)

Annual teen birth rate per 1,000 female teens = (3.326/63.687)\*1,000 = 52.2 (*R*)

$$\text{Standard error} = \frac{R}{\sqrt{b}} \quad \text{ci} = R - 1.96\left(\frac{R}{\sqrt{b}}\right) \quad \text{ci} = 52.2 - 1.96\left(\frac{52.2}{\sqrt{3,326}}\right) \text{ or } \text{ci} = 50.4 - 54.0$$

We can say, then, that there is a 95% probability that the interval from 50.4 to 54.0 contains the true teen birth rate for the State of Alaska for the period 1995-1997.

### Expectation of Life

Expectation of life is the number of years infants born in a specific year can expect to live if they experience the same age-specific death rates experienced during their birth year. Table B.1 illustrates the calculation of life expectancy for all Alaskans based on data from a five year period.

TABLE B.1 EXPECTATION OF LIFE FOR ALL ALASKANS, 1993-1997

| AGE AT DEATH | COLUMN IDENTIFICATION AND DESCRIPTION |         |         |                               |                                |                                      |                        |                            |           |                                      |
|--------------|---------------------------------------|---------|---------|-------------------------------|--------------------------------|--------------------------------------|------------------------|----------------------------|-----------|--------------------------------------|
|              | A                                     | B       | C       | D                             | E                              | F                                    | G                      | H                          | I         | J                                    |
|              | DTHS                                  | POP     | RATIO   | PROPORTION DYING IN AGE GROUP | PROPORTION LIVING IN AGE GROUP | NO. LIVING AT BEGINNING OF AGE GROUP | NO. DYING IN AGE GROUP | NUMBER LIVING IN AGE GROUP | CUM POP   | YEARS LEFT AT BEGINNING OF AGE GROUP |
| <1           | 374                                   | 51,352  | 0.00728 | 0.00726                       | 0.99274                        | 100,000                              | 726                    | 99,383                     | 7,473,532 | 74.7                                 |
| 1-4          | 109                                   | 216,450 | 0.00050 | 0.00201                       | 0.99799                        | 99,274                               | 200                    | 396,598                    | 7,374,149 | 74.3                                 |
| 5-9          | 66                                    | 284,233 | 0.00023 | 0.00116                       | 0.99884                        | 99,075                               | 115                    | 495,086                    | 6,977,551 | 70.4                                 |
| 10-14        | 83                                    | 267,657 | 0.00031 | 0.00155                       | 0.99845                        | 98,960                               | 153                    | 494,415                    | 6,482,465 | 65.5                                 |
| 15-19        | 249                                   | 221,427 | 0.00112 | 0.00561                       | 0.99439                        | 98,806                               | 554                    | 492,647                    | 5,988,050 | 60.6                                 |
| 20-24        | 286                                   | 168,205 | 0.00170 | 0.00847                       | 0.99153                        | 98,252                               | 832                    | 489,182                    | 5,495,403 | 55.9                                 |
| 25-29        | 315                                   | 216,426 | 0.00146 | 0.00725                       | 0.99275                        | 97,421                               | 706                    | 485,337                    | 5,006,221 | 51.4                                 |
| 30-34        | 419                                   | 270,242 | 0.00155 | 0.00772                       | 0.99228                        | 96,714                               | 747                    | 481,704                    | 4,520,884 | 46.7                                 |
| 35-39        | 533                                   | 305,995 | 0.00174 | 0.00867                       | 0.99133                        | 95,967                               | 832                    | 477,756                    | 4,039,180 | 42.1                                 |
| 40-44        | 655                                   | 293,906 | 0.00223 | 0.01108                       | 0.98892                        | 95,135                               | 1,054                  | 473,040                    | 3,561,424 | 37.4                                 |
| 45-49        | 733                                   | 240,645 | 0.00305 | 0.01511                       | 0.98489                        | 94,081                               | 1,422                  | 466,850                    | 3,088,384 | 32.8                                 |
| 50-54        | 734                                   | 164,067 | 0.00447 | 0.02212                       | 0.97788                        | 92,659                               | 2,050                  | 458,170                    | 2,621,534 | 28.3                                 |
| 55-59        | 827                                   | 108,302 | 0.00764 | 0.03747                       | 0.96253                        | 90,609                               | 3,395                  | 444,559                    | 2,163,364 | 23.9                                 |
| 60-64        | 963                                   | 74,369  | 0.01295 | 0.06271                       | 0.93729                        | 87,214                               | 5,470                  | 422,398                    | 1,718,805 | 19.7                                 |
| 65-69        | 1,202                                 | 57,484  | 0.02091 | 0.09936                       | 0.90064                        | 81,745                               | 8,122                  | 388,420                    | 1,296,407 | 15.9                                 |
| 70-74        | 1,399                                 | 43,005  | 0.03253 | 0.15042                       | 0.84958                        | 73,623                               | 11,075                 | 340,428                    | 907,987   | 12.3                                 |
| 75-79        | 1,283                                 | 27,048  | 0.04743 | 0.21203                       | 0.78797                        | 62,548                               | 13,262                 | 279,587                    | 567,559   | 9.1                                  |
| 80-84        | 1,154                                 | 14,524  | 0.07945 | 0.33144                       | 0.66856                        | 49,286                               | 16,335                 | 205,594                    | 287,971   | 5.8                                  |
| 85+          | 1,436                                 | 8,815   | 0.16290 | 0.57880                       | 0.42120                        | 32,951                               | 32,951                 | 82,378                     | 82,378    | 2.5                                  |

- Column A:** total deaths during five years.
- Column B:** sum of population for each of the five years.
- Column C:** ratio. A/B
- Column D:** proportion dying in the age group. For less than 1 year: (2\*C)/(2+C); for 1-4 years: (2\*4\*C)/(2+4\*(1.25\*C)); all others: (2\*5\*C)/(2+5\*C)
- Column E:** proportion living in age group. 1-D
- Column F:** number living at beginning of age. For less than 1 year: 100,000; all others: E\*F (both from next younger age group)
- Column G:** number dying in the age group. F(this age group)-F(next older age group)
- Column H:** number living in the age group. For less than 1 year: F-(.85\*G); for 1-4 years: 4\*F-(2.5\*G); all others: (5\*F)-(2.5\*G)
- Column I:** cumulative population. Sum of H for this and all older age groups
- Column J:** years left at beginning of age. I/F

## Moving Averages

Calculations of 3-year, 5-year, and 10-year moving averages are performed when single-year rates are not reliable. Often when small numbers are used for calculations, use of moving averages helps to smooth out rates which vary randomly from one period to another.

For example, single-year infant mortality rates are seldom good indicators of the state of health within populations because rates can fluctuate dramatically from year to year. In Alaska, 132 infants died during 1988 and 108 infants died during 1989. The single-year infant mortality rates during 1988 and 1989 were 11.7 and 9.3, respectively. The 3-year moving average IMR (using 1986, 1987, and 1988 data) was 11.0 and (using 1987, 1988, and 1989) 10.4 infant deaths per 1,000 live births.

## Years of Life Lost

Years of Life Lost (YLL), or Years of Productive Life Lost, is the difference between the standardized age of 65 and the age of a decedent who dies before age 65. For purposes of calculation, deaths are assumed to occur at the midpoint of a five-year age interval; i.e. a 41-year-old decedent is assumed to be 42.5 years or halfway between 40 and 45. A person dying at age 41 would be said to have 22.5 years of life lost (65-42.5). Years of Life Lost emphasizes mortality in younger populations and is used in this report to measure the impact of specific causes of death. For a specific decedent group, Years of Life Lost is calculated as follows:

$$YLL = \hat{A} 65 - mp$$

where YLL is Years of Life Lost  
 :  $\Sigma$  is sum of all decedents' years of productive life lost  
 65 represents years of productive life  
 mp is the mid-point of the decedent's 5-year age group



# APPENDIX C: ICD9 CODES

## GENERAL MORTALITY

When analyzing causes of death, *International Classification of Diseases - Ninth Edition (ICD-9)* codes are grouped according to certain logical categories. For purposes of comparing leading causes of death in Alaska with leading causes of death in the United States (Tables 5.7A through 5.10B), it is important to use the same groupings and definitions. On the other hand, when looking at specific problem areas in Alaska such as alcohol use and abuse, it is important to consider all types of death from alcohol. For that reason, ICD-9 code 425.5, alcoholic cardiomyopathy, is grouped with heart disease in Tables 5.7A through 5.10B, and with alcohol use/abuse in Tables 5.11A through 5.15.

Table C.1 lists all ICD-9 codes and shows how they are grouped. Please note that if any cause in a column does not appear in the specified set of tables, this indicates there were no deaths from that cause in the reporting period (e.g. measles).

**TABLE C.1 ICD-9 CAUSE OF DEATH CODES FOR GENERAL MORTALITY**

| CAUSE OF DEATH (TABLES 6.7A-6.10B) | CAUSE OF DEATH (TABLES 6.11A-6.11B)                | CAUSE OF DEATH (TABLES 6.12-6.15)               | ICD-9 CODES                          |
|------------------------------------|--|---|--------------------------------------|
| ALL OTHER CAUSES                   | SHIGELLOSIS & AMELIASIS                            | ALL OTHER CAUSES                                | 004, 006                             |
| ALL OTHER CAUSES                   | TUBERCULOSIS                                       | TUBERCULOSIS                                    | 010-018                              |
| ALL OTHER CAUSES                   | WHOOPING COUGH                                     | ALL OTHER CAUSES                                | 033                                  |
| ALL OTHER CAUSES                   | STREPTOCOCCAL SORE THROAT, SCARLATINA & ERYSIPELAS | ALL OTHER CAUSES                                | 034-035                              |
| ALL OTHER CAUSES                   | MENINGOCOCCAL INFECTION                            | ALL OTHER CAUSES                                | 036                                  |
| SEPTICEMIA                         | SEPTICEMIA   | SEPTICEMIA                                      | 038                                  |
| ALL OTHER CAUSES                   | HIV INFECTION                                      | HIV INFECTION                                   | 042-044                              |
| ALL OTHER CAUSES                   | ACUTE POLIOMYELITIS                                | ALL OTHER CAUSES                                | 045                                  |
| ALL OTHER CAUSES                   | MEASLES  | ALL OTHER CAUSES                                | 055                                  |
| ALL OTHER CAUSES                   | VIRAL HEPATITIS                                    | ALL OTHER CAUSES                                | 070                                  |
| ALL OTHER CAUSES                   | SYPHILIS   | ALL OTHER CAUSES                                | 090-097                              |
| CANCER                             | CANCER   | CANCER: LIP, ORAL CAVITY & PHARYNX              | 140-149                              |
| CANCER                             | CANCER   | CANCER: DIGESTIVE ORGANS & PERITONEUM           | 150-159                              |
| CANCER                             | CANCER   | CANCER: RESPIRATORY & INTRATHORACIC ORGANS      | 160-165                              |
| CANCER                             | CANCER   | CANCER: OTHER & UNSPECIFIED SITES               | 170-173, 190-199                     |
| CANCER                             | CANCER   | CANCER: BREAST                                  | 174-175                              |
| CANCER                             | CANCER   | CANCER: GENITAL ORGANS                          | 179-187                              |
| CANCER                             | CANCER   | CANCER: URINARY ORGANS                          | 188-189                              |
| CANCER                             | CANCER   | CANCER: OTHER LYMPHATIC & HEMATOPOIETIC TISSUES | 200-203                              |
| CANCER                             | CANCER   | CANCER: LEUKEMIA                                | 204-208                              |
| ALL OTHER CAUSES                   | BENIGN NEOPLASMS                                   | ALL OTHER CAUSES                                | 210-239                              |
| DIABETES MELLITUS                  | DIABETES MELLITUS                                  | DIABETES MELLITUS                               | 250                                  |
| ALL OTHER CAUSES                   | NUTRITIONAL DEFICIENCIES                           | ALL OTHER CAUSES                                | 260-269                              |
| ALL OTHER CAUSES                   | ANEMIAS  | ALL OTHER CAUSES                                | 280-285                              |
| ALL OTHER CAUSES                   | ALCOHOL USE/ABUSE                                  | ALCOHOL USE/ABUSE                               | 291, 303, 305.0, 357.5, 535.3, 790.3 |
| ALL OTHER CAUSES                   | MENINGITIS   | ALL OTHER CAUSES                                | 320-322                              |
| ALZHEIMER'S DISEASE                | ALZHEIMER'S DISEASE                                | ALZHEIMER'S DISEASE                             | 331.0                                |
| HEART DISEASE                      | HEART DISEASE                                      | RHEUMATIC FEVER & RHEUMATIC HEART DISEASE       | 390-398                              |
| ALL OTHER CAUSES                   | HYPERTENSION                                       | ALL OTHER CAUSES                                | 401, 403                             |

Continued →

TABLE C.1 (CONTINUED)

| CAUSE OF DEATH (TABLES 6.7A-6.10B)     | CAUSE OF DEATH (TABLES 6.11A-6.11B)  | CAUSE OF DEATH (TABLES 6.12-6.15)                      | ICD-9 CODES              |
|--|--|--|--------------------------|
| HEART DISEASE                          | HEART DISEASE  | HYPERTENSIVE HEART DISEASE                             | 402                      |
| HEART DISEASE                          | HEART DISEASE  | HYPERTENSIVE HEART & RENAL DISEASE                     | 404                      |
| HEART DISEASE                          | HEART DISEASE  | ACUTE MYOCARDIAL INFARCTION                            | 410                      |
| HEART DISEASE                          | HEART DISEASE  | OTHER ACUTE & SUBACUTE FORMS OF ISCHEMIC HEART DISEASE | 411                      |
| HEART DISEASE                          | HEART DISEASE  | OTHER FORMS OF CHRONIC ISCHEMIC HEART DISEASE          | 412, 414                 |
| HEART DISEASE                          | HEART DISEASE  | ANGINA PECTORIS  | 413                      |
| HEART DISEASE                          | HEART DISEASE  | OTHER HEART DISEASE                                    | 415.0-425.4, 425.6-429.9 |
| HEART DISEASE                          | ALCOHOL USE/ABUSE  | ALCOHOL USE/ABUSE                                      | 425.5                    |
| CEREBROVASCULAR DISEASES               | CEREBROVASCULAR DISEASES   | CEREBROVASCULAR DISEASES                               | 430-438                  |
| ALL OTHER CAUSES                       | ATHEROSCLEROSIS  | ATHEROSCLEROSIS  | 440                      |
| ALL OTHER CAUSES                       | ACUTE BRONCHITIS & BRONCHIOLITIS   | ACUTE BRONCHITIS & BRONCHIOLITIS                       | 466                      |
| PNEUMONIA & INFLUENZA                  | PNEUMONIA & INFLUENZA  | PNEUMONIA & INFLUENZA                                  | 480-487                  |
| CHRONIC OBSTRUCTIVE PULMONARY DISEASES | CHRONIC OBSTRUCTIVE PULMONARY DISEASES   | OTHER CHRONIC OBSTRUCTIVE PULMONARY DISEASES           | 490-491, 494-496         |
| CHRONIC OBSTRUCTIVE PULMONARY DISEASES | CHRONIC OBSTRUCTIVE PULMONARY DISEASES   | EMPHYSEMA  | 492                      |
| CHRONIC OBSTRUCTIVE PULMONARY DISEASES | CHRONIC OBSTRUCTIVE PULMONARY DISEASES   | ASTHMA   | 493                      |
| ALL OTHER CAUSES                       | ULCER OF STOMACH & DUODENUM  | ALL OTHER CAUSES                                       | 531-533                  |
| ALL OTHER CAUSES                       | APPENDICITIS   | ALL OTHER CAUSES                                       | 540-543                  |
| ALL OTHER CAUSES                       | HERNIA OF ABDOMINAL CAVITY OR INTESTINAL OBSTRUCTION WITHOUT MENTION OF HERNIA | ALL OTHER CAUSES                                       | 550-553, 560             |
| CHRONIC LIVER DISEASE & CIRRHOSIS      | ALCOHOL USE/ABUSE  | ALCOHOL USE/ABUSE                                      | 571.0-571.3              |
| CHRONIC LIVER DISEASE & CIRRHOSIS      | CHRONIC LIVER DISEASE & CIRRHOSIS  | CHRONIC LIVER DISEASE & CIRRHOSIS                      | 571.4-571.9              |
| ALL OTHER CAUSES                       | DISORDERS OF GALLBLADDER   | ALL OTHER CAUSES                                       | 574-575                  |
| ALL OTHER CAUSES                       | NEPHRITIS, NEPHROTIC SYNDROME & NEPHROSIS                                      | NEPHRITIS, NEPHROTIC SYNDROME & NEPHROSIS              | 580-589                  |
| ALL OTHER CAUSES                       | INFECTIONS OF KIDNEY   | ALL OTHER CAUSES                                       | 590                      |
| ALL OTHER CAUSES                       | HYPERPLASIA OF PROSTATE  | ALL OTHER CAUSES                                       | 600                      |
| ALL OTHER CAUSES                       | PREGNANCY WITH ABORTIVE OUTCOME  | ALL OTHER CAUSES                                       | 630-638                  |
| CONGENITAL ANOMALIES                   | CONGENITAL ANOMALIES   | CONGENITAL ANOMALIES                                   | 740-759                  |
| PERINATAL PERIOD CONDITIONS            | PERINATAL PERIOD CONDITIONS  | PERINATAL PERIOD CONDITIONS                            | 760-779                  |
| SIDS                                   | SIDS   | SIDS   | 798.0                    |

Continued →

TABLE C.1 (CONTINUED)

| CAUSE OF DEATH (TABLES<br>6.7A-6.10B) | CAUSE OF DEATH (TABLES<br>6.11A-6.11B) | CAUSE OF DEATH (TABLES<br>6.12-6.15)     | ICD-9 CODES   |
|---------------------------------------|--|--|---|
| ALL OTHER CAUSES                      | ALL OTHER INTERNAL<br>CAUSES           | ALL OTHER CAUSES                         | 001-003, 005, 007-009, 020-032, 037,<br>039-041, 046-054, 056-066, 071-088,<br>098-139, 240-249, 251-259, 270-279,<br>286-290, 292-302, 304, 305.1-319.9,<br>323-330, 331.1-357.4, 357.6-389.9, 399,<br>405-409, 439, 441-465, 467-479, 488-489,<br>497-530, 534.0-535.2, 535.4-539.9,<br>544-549, 554-559, 561-570, 572-573,<br>576-579, 591-599, 601-629, 640-739,<br>780.0-790.2, 790.4-797.9, 798.1-799.9 |
| ACCIDENTS & ADVERSE<br>EFFECTS        | OTHER ACCIDENTS                        | ALL OTHER ACCIDENTS &<br>ADVERSE EFFECTS | E800-E809, E826-E858, E861-E949   |
| ACCIDENTS & ADVERSE<br>EFFECTS        | MOTOR VEHICLE<br>ACCIDENTS             | MOTOR VEHICLE<br>ACCIDENTS               | E810-E825   |
| ACCIDENTS & ADVERSE<br>EFFECTS        | ALCOHOL USE/ABUSE                      | ALCOHOL USE/ABUSE                        | E860  |
| SUICIDE                               | SUICIDES                               | SUICIDE                                  | E950-E959   |
| HOMICIDE & LEGAL<br>INTERVENTION      | HOMICIDES                              | HOMICIDE & LEGAL<br>INTERVENTION         | E960-E978   |
| ALL OTHER CAUSES                      | ALL OTHER EXTERNAL<br>CAUSES           | ALL OTHER CAUSES                         | E980-E999   |

**E-CODES (ACCIDENTS, SUICIDES AND HOMICIDES)**

The following descriptions are used for ICD-9 codes in the Child Deaths chapter and Tables 6.16A through 6.20 in the Death Chapter. Since the overwhelming majority of childhood deaths are due to accidents, suicides and homicides, the same categories are used in that chapter as in the section on external causes of death in the Death Chapter. Natural cause codes are not included in Death Chapter Tables 6.16A through 6.20.

**TABLE C.2 ICD-9 CODES FOR CHILDHOOD DEATHS (TABLES 3.2C, 3.4A, AND 3.4B) AND EXTERNAL CAUSES (TABLES 6.16A-6.20)**

| <b>MANNER OF DEATH</b> | <b>CAUSE OF DEATH</b>    | <b>ICD-9 CODES</b>   |
|------------------------|--------------------------|--|
| NATURAL CAUSE          | CANCER                   | 140-208 (Childhood Deaths only)  |
| NATURAL CAUSE          | BENIGN NEOPLASMS         | 238-239 (Childhood Deaths only)  |
| NATURAL CAUSE          | NERVOUS SYSTEM DISORDERS | 320-359 (Childhood Deaths only)  |
| NATURAL CAUSE          | HEART DISEASE            | 390-429 (Childhood Deaths only)  |
| NATURAL CAUSE          | CONGENITAL ANOMALIES     | 740-759 (Childhood Deaths only)  |
| NATURAL CAUSE          | OTHER NATURAL CAUSES     | 001-139, 209-237, 240-319, 360-389, 430-739, 760-799 (Childhood Deaths only) |
| ACCIDENT               | RAILWAY                  | E800-E807  |
| ACCIDENT               | MOTOR VEHICLE            | E810-E825  |
| ACCIDENT               | OTHER ROAD VEHICLE       | E826-E829  |
| ACCIDENT               | DROWNING                 | E830, E832, E910   |
| ACCIDENT               | WATER TRANSPORT          | E831, E833-E838  |
| ACCIDENT               | AIR TRANSPORT            | E840-E845  |
| ACCIDENT               | OTHER VEHICLE            | E846-E848  |
| ACCIDENT               | POISONING                | E850-E869  |
| ACCIDENT               | MEDICAL COMPLICATIONS    | E870-E879, E930-E949   |
| ACCIDENT               | FALLS                    | E880-E888  |
| ACCIDENT               | FIRE/BURNS               | E890-E899, E924  |
| ACCIDENT               | EXPOSURE                 | E900-E909  |
| ACCIDENT               | SUFFOCATION              | E911-E913  |
| ACCIDENT               | FOREIGN BODY             | E914-E915  |
| ACCIDENT               | FIREARMS                 | E922   |
| ACCIDENT               | OTHER ACCIDENTS          | E808-E809, E839, E849, E889, E916-E921, E923, E925-E929                      |
| SUICIDE                | POISONING                | E950-E952  |
| SUICIDE                | STRANGULATION            | E953   |
| SUICIDE                | DROWNING                 | E954   |
| SUICIDE                | FIREARMS                 | E955   |
| SUICIDE                | CUTTING/PIERCING         | E956   |
| SUICIDE                | OTHER SUICIDES           | E957-E959  |
| HOMICIDE               | FIGHT/RAPE               | E960   |
| HOMICIDE               | POISONING                | E962   |
| HOMICIDE               | STRANGULATION            | E963   |
| HOMICIDE               | DROWNING                 | E964   |
| HOMICIDE               | FIREARMS                 | E965, E970-E971  |
| HOMICIDE               | CUTTING/PIERCING         | E966, E974   |
| HOMICIDE               | CHILD BATTERING          | E967   |
| HOMICIDE               | OTHER HOMICIDES          | E961, E968-E969  |
| HOMICIDE               | OTHER LEGAL INTERVENTION | E972-E973, E975-E978   |
| OTHER                  | POISONING                | E980-E982  |
| OTHER                  | STRANGULATION            | E983   |
| OTHER                  | DROWNING                 | E984   |
| OTHER                  | FIREARMS                 | E985   |
| OTHER                  | OTHER EXTERNAL CAUSES    | E986-E999  |

**INFANT MORTALITY**

Table C.3 lists ICD-9 codes and shows how they are grouped in Infant Death Tables 2.7-2.8.

**TABLE C.3 ICD-9 CAUSE OF DEATH CODES FOR INFANT MORTALITY**

| INFANT DEATHS (TABLES 2.7-2.8)                                | ICD-9 CODES  |
|---|--|
| WHOOPING COUGH  | 033  |
| MENINGOCOCCAL INFECTION                                       | 036  |
| SEPTICEMIA  | 038  |
| VIRAL DISEASES  | 045-079  |
| CONGENITAL SYPHILIS   | 090  |
| CANCER  | 140-208  |
| BENIGN NEOPLASMS  | 210-239  |
| THYMUS GLAND DISEASES   | 254  |
| CYSTIC FIBROSIS   | 277.0  |
| BLOOD AND BLOOD-FORMING ORGAN DISEASES                        | 280-289  |
| MENINGITIS  | 320-322  |
| ACUTE UPPER RESPIRATORY INFECTIONS                            | 460-465  |
| BRONCHITIS AND BRONCHIOLITIS                                  | 466, 490-491   |
| PNEUMONIA & INFLUENZA   | 480-487  |
| GASTRITIS, DUODENITIS, AND NONINFECTIVE ENTERITIS AND COLITIS | 535, 555-558   |
| HERNIA OF ABDOMINAL CAVITY AND INTESTINAL OBSTRUCTIONS        | 550-553, 560   |
| CONGENITAL ANOMALIES  | 740-759  |
| MATERNAL CONDITIONS (UNRELATED TO PRESENT PREGNANCY)          | 760  |
| MATERNAL COMPLICATIONS OF PREGNANCY                           | 761  |
| PLACENTA, CORD, AND MEMBRANE COMPLICATIONS                    | 762  |
| LABOR & DELIVERY: OTHER COMPLICATIONS                         | 763  |
| SLOW FETAL GROWTH AND FETAL MALNUTRITION                      | 764  |
| SHORT GESTATION & LOW BIRTHWEIGHT RELATED DISORDERS           | 765  |
| LONG GESTATION AND HIGH BIRTHWEIGHT RELATED DISORDERS         | 766  |
| BIRTH TRAUMA  | 767  |
| INTRAUTERINE HYPOXIA & BIRTH ASPHYXIA                         | 768.2-768.9  |
| RESPIRATORY DISTRESS SYNDROME                                 | 769  |
| PERINATAL PERIOD INFECTIONS                                   | 771  |
| NEONATAL HEMORRHAGE   | 772  |
| HEMOLYTIC DISEASE OF NEWBORN                                  | 773-774  |
| INFANT OF DIABETIC MOTHER AND NEONATAL DIABETES MELLITUS      | 775.0-775.1  |
| HEMORRHAGIC DISEASE OF NEWBORN                                | 776.0  |
| SIDS  | 798.0  |
| ACCIDENTS & ADVERSE EFFECTS                                   | E800-E949  |
| HOMICIDE  | E960-E969  |
| ALL OTHER CAUSES  | 001-032, 034-035, 037, 039-044, 080-088, 091-139, 240-253, 255-276, 277.1-279.9, 290-319, 323-459, 470-478, 492-534, 536-543, 561-739, 768.0-768.1, 770, 775.2-775.9, 776.1-797.9, 798.1-799.9, E950-E959, E970-E999 |



# APPENDIX D: PRENATAL CARE

## Kessner Index

The classification of prenatal care as adequate, intermediate, or inadequate is derived from the Institute of Medicine's Three-Factor Prenatal Care Index.<sup>1</sup> The classes of care are in accordance with recommendations for prenatal care set forth by the American College of Obstetricians and Gynecologists and the World Health Organization. This classification scheme accounts for length of gestation by requiring fewer prenatal visits for pregnancies with short gestation time. Records with missing information (i.e. last normal menstrual period, gestation weeks, number of visits, or month prenatal care began) are assigned to the inadequate prenatal care category.

The gestation weeks are calculated by subtracting the last menstrual date from the child's birth date. If the last menstrual date is missing from the birth record, the doctor's (or other medical professional's) estimate of gestation is used. The accuracy of the level of prenatal care is as reliable as the information provided by the mother and her caregiver.

The table below shows the Institute of Medicine's Three-Factor Prenatal Care Index.

TABLE D.1 KESSNER INDEX

| GESTATION   | TRIMESTER CARE BEGAN AND/OR NUMBER OF PRENATAL VISITS | LEVEL OF CARE |
|-------------|---|---------------|
| <=13 Weeks  | At least 1 visit                                      | Adequate      |
|             | No prenatal visits                                    | Intermediate  |
| 14-17 Weeks | 1st trimester and at least 2 visits                   | Adequate      |
|             | 1st or 2nd trimester and 1 visit                      | Intermediate  |
|             | No prenatal visits                                    | Inadequate    |
| 18-21 Weeks | 1st trimester and at least 3 visits                   | Adequate      |
|             | 1st or 2nd trimester and 1-2 visits                   | Intermediate  |
|             | No prenatal visits                                    | Inadequate    |
| 22-25 Weeks | 1st trimester and at least 4 visits                   | Adequate      |
|             | 1st or 2nd trimester and 2-3 visits                   | Intermediate  |
|             | 3rd trimester or no more than 1 visit                 | Inadequate    |
| 26-29 Weeks | 1st trimester and at least 5 visits                   | Adequate      |
|             | 1st or 2nd trimester and 2-4 visits                   | Intermediate  |
|             | 3rd trimester or no more than 1 visit                 | Inadequate    |
| 30-31 Weeks | 1st trimester and at least 6 visits                   | Adequate      |
|             | 1st or 2nd trimester and 3-5 visits                   | Intermediate  |
|             | 3rd trimester or no more than 2 visits                | Inadequate    |
| 32-33 Weeks | 1st trimester and at least 7 visits                   | Adequate      |
|             | 1st or 2nd trimester and 4-6 visits                   | Intermediate  |
|             | 3rd trimester or no more than 3 visits                | Inadequate    |
| 34-35 Weeks | 1st trimester and at least 8 visits                   | Adequate      |
|             | 1st or 2nd trimester and 5-7 visits                   | Intermediate  |
|             | 3rd trimester or no more than 4 visits                | Inadequate    |
| =>36 Weeks  | 1st trimester and at least 9 visits                   | Adequate      |
|             | 1st or 2nd trimester and 5-8 visits                   | Intermediate  |
|             | 3rd trimester or no more than 4 visits                | Inadequate    |

1 Kessner, D. "Infant Death: An Analysis by Maternal Risk and Health Care." Institute of Medicine, *Contrasts in Health Status, Volume I*, 1973. National Academy of Sciences, Washington, DC, pp 58-60.





# APPENDIX E: DETERMINATION OF CHILD'S RACE

## NCHS STANDARDS

Beginning in 1989, the National Center for Health Statistics (NCHS) changed their standards for determining a child's race. Since that time, a child's race has been determined by the race of the mother as reported on the birth certificate. Following are NCHS guidelines for determining the child's race.

- If the mother is a mixture of Hawaiian and any other race, the child's race is recorded as **Hawaiian**.
- If the mother is a mixture of races other than Hawaiian, the child's race is the **first listed race** of the mother.
- If the mother's race is listed as "Col.", "N", "Negro", "Colored", "B", "Brown", "AA", or "Afro-American", the child's race is recorded as **African American**.
- If the mother's race is listed as Asian, Yellow, Oriental, or Mongolian, and the mother's birth place is given as China, Japan, the Phillipines, Hawaii, India, Korea, Vietnam, Samoa, or Guam, the child's race is recorded by the **country of the mother's birth**. If the birth place is not one of those places, the child's race is recorded as **Other Asian or Pacific Islander**.
- If the mother's race is Indian and the mother's birth place is not in North, Central, or South America, the child's race is recorded as **Other Asian or Pacific Islander**.
- If "part \_\_\_\_\_" or "1/4, 1/2, 3/4 \_\_\_\_\_" is given, the child's race is recorded as the **first reported race** of the mother. The prefix is ignored.
- If the mother's race is shown as unknown, the child's race is recorded as **Unknown**.

## STATISTICAL CALCULATIONS

In this report, for any decedents born in Alaska in 1989 or later, a comparison has been made between the decedent's race as shown on the death certificate and the mother's race as shown on the birth certificate. If the two are not the same, the mother's race has been used for statistical analysis.

Birth certificates in which the mother's race is not specified may result in an under-reporting of the race-specific birth rates. Therefore, in this report, for statistical purposes only, any certificates in which the mother's race is unknown are assigned the race of the previous certificate on which the mother's race is known. While not accurate on an individual basis, this does allow for accurate overall estimates of rates by race. This method is also used by the National Centers for Health Statistics.



## APPENDIX F: YEAR 2000 HEALTH OBJECTIVES

The U.S. Department of Health and Human Services published *Healthy People 2000: National Health Promotion and Disease Prevention Objectives*<sup>1</sup> to comprehensively address health promotion and disease prevention opportunities in order to allow local communities and states to choose from among its recommendations in addressing their own highest priority needs. The table below provides a brief comparison of some of these objectives compared with Alaska vital statistics from 1996 through 1998.

TABLE F.1 YEAR 2000 HEALTH OBJECTIVES

| HEALTH INDICATOR  | ALASKA STATISTICS |       |       | YEAR 2000 OBJECTIVE |
|---|-------------------|-------|-------|---------------------|
|   | 1996              | 1997  | 1998  |                     |
| Cancer Death Rate*  | 130.4             | 119.8 |       | 130.0               |
| Accident and Adverse Effect Death Rate                        | 56.3              | 46.2  |       | 29.3                |
| Suicide Death Rate  | 22.8              | 21.6  |       | 10.5                |
| Cerebrovascular Disease Death Rate                            | 26.5              | 23.9  |       | 20.0                |
| Chronic Obstructive Pulmonary Disease Death Rate              | 24.2              | 23.6  |       | 25.0                |
| Diabetes Mellitus Death Rate                                  | 13.1              | 15.9  |       | 34.0                |
| Chronic Liver Disease & Cirrhosis Death Rate                  | 9.1               | 7.9   |       | 6.0                 |
| Infant Mortality Rate**                                       | 7.9               | 7.7   |       | 7.0                 |
| Neonatal Infant Mortality Rate                                | 4.0               | 3.9   |       | 4.5                 |
| Postneonatal Infant Mortality Rate                            | 3.9               | 3.8   |       | 2.5                 |
| Low Birth Weight (<2500 grams) Percent***                     | 5.3%              | 5.4   | %     | 5.0%                |
| Very Low Birth Weight (<1500 grams) Percent                   | 1.0%              | 1.0   | %     | <1%                 |
| Mothers Abstaining from Tobacco Use During Pregnancy          | 79.3%             | 80.6  | %     | 90%                 |
| Alaska Mothers Receiving Prenatal Care During First Trimester | 79.9%             | 79.3  | 80.1% | 90%                 |
| White Mothers Receiving Prenatal Care During First Trimester  | 82.4%             | 81.5  | 82.4% |                     |
| Native Mothers Receiving Prenatal Care During First Trimester | 74.0%             | 75.5  | 74.5% |                     |

\* All death rates are per 100,000 population, age adjusted to the 1940 standard million population.

\*\* All Alaska infant mortality rates are five-year (1992-1996, 1993-1997, 1994-1998) averages per 1,000 live births. The Year 2000 objective is a single year rate per 1,000 live births.

\*\*\* Low and very low birth weight rates are five-year percentages of live births.

1 Public Health Service, U.S. Department of Health and Human Services, *Healthy People 2000: National Health Promotion and Disease Prevention Objectives*, DHHS Pub. No. PHS 91-50212. Washington, D.C. 1991.



## **APPENDIX G: SAMPLE CERTIFICATES**

**CERTIFICATE OF LIVE BIRTH - Intentionally left blank.**

**CERTIFICATE OF LIVE BIRTH (continued)**

**CERTIFICATE OF FETAL DEATH - Intentionally left blank.**

**CERTIFICATE OF FETAL DEATH (continued)**



**REPORT OF ADOPTION - Intentionally left blank.**

**CERTIFICATE OF MARRIAGE - Intentionally left blank.**

**CERTIFICATE OF DIVORCE, DISSOLUTION OF MARRIAGE, OR  
ANNULMENT - Intentionally left blank.**

**CERTIFICATE OF DEATH - Intentionally left blank.**

**CERTIFICATE OF PRESUMPTIVE DEATH - Intentionally left blank.**



## APPENDIX H: GEOGRAPHIC INFORMATION

Some of the information in this report is provided by geographic regions. There are three different ways in which Alaska is divided into regions: 1) by census area; 2) by Native regional corporation boundaries; and 3) by judicial districts. The following alphabetic list shows the census area and Native regional corporation for each location.

| LOCATION            | CENSUS AREA                     | NATIVE REGIONAL CORPORATION |
|---------------------|---------------------------------|-----------------------------|
| ADAK                | ALEUTIANS WEST                  | ALEUT CORP.                 |
| AFOGNAK             | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| AKHIOK              | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| AKIACHAK            | BETHEL                          | CALISTA CORP.               |
| AKIAK               | BETHEL                          | CALISTA CORP.               |
| AKULURAK MISSION    | BETHEL                          | CALISTA CORP.               |
| AKUTAN              | ALEUTIANS EAST                  | ALEUT CORP.                 |
| ALAKANUK            | WADE HAMPTON                    | CALISTA CORP.               |
| ALASKA HWY          | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| ALATNA              | YUKON/KOYUKUK                   | DOYON LTD.                  |
| ALCAN               | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| ALEKNAGIK           | DILLINGHAM                      | BRISTOL BAY CORP.           |
| ALEXANDER CREEK     | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| ALITAK              | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| ALLAKAKET           | YUKON/KOYUKUK                   | DOYON LTD.                  |
| AMBLER              | NORTHWEST ARCTIC BOROUGH        | NANA REGIONAL CORP.         |
| AMCHITKA            | ALEUTIANS WEST                  | ALEUT CORP.                 |
| ANAKTUVAK PASS      | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| ANCHOR POINT        | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| ANCHORAGE           | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| ANCHORAGE (CHUGACH) | ANCHORAGE BOROUGH               | CHUGACH NATIVES INC.        |
| ANCHORAGE AIRPORT   | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| ANDERAFSKI          | WADE HAMPTON                    | CALISTA CORP.               |
| ANDERSON            | DENALI BOROUGH                  | DOYON LTD.                  |
| ANGOON              | ANGOON/HOONAH/SKAGWAY           | SEALASKA CORP.              |
| ANIAK               | BETHEL                          | CALISTA CORP.               |
| ANNETTE             | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| ANNETTE ISLAND      | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| ANVIK               | YUKON/KOYUKUK                   | DOYON LTD.                  |
| ARCTIC CIRCLE       | YUKON/KOYUKUK                   | DOYON LTD.                  |
| ARCTIC VILLAGE      | YUKON/KOYUKUK                   | DOYON LTD.                  |
| ATKA                | ALEUTIANS WEST                  | ALEUT CORP.                 |
| ATKASOOK            | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| ATMAUTHUAK          | BETHEL                          | CALISTA CORP.               |
| ATTU                | ALEUTIANS WEST                  | ALEUT CORP.                 |
| AUKE BAY            | JUNEAU BOROUGH                  | SEALASKA CORP.              |
| AURORA LODGE        | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| BARANOF             | SITKA BOROUGH                   | SEALASKA CORP.              |
| BARE ISLAND         | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| BARROW              | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| BARTER ISLAND       | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| BEAVER              | YUKON/KOYUKUK                   | DOYON LTD.                  |
| BELL ISLAND         | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| BELOFSKI            | ALEUTIANS EAST                  | ALEUT CORP.                 |
| BELUGA              | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| BERRY               | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| BESSIE DREDGE #5    | NOME                            | BERING STRAITS CORP.        |
| BETHEL              | BETHEL                          | CALISTA CORP.               |
| BETTLES             | YUKON/KOYUKUK                   | DOYON LTD.                  |
| BIG DELTA           | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| BIG HORN            | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |

| LOCATION           | CENSUS AREA                     | NATIVE REGIONAL CORPORATION |
|--------------------|---------------------------------|-----------------------------|
| BIG LAKE           | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| BILL MOORES SLOUGH | WADE HAMPTON                    | CALISTA CORP.               |
| BIORKA ISLAND      | SITKA BOROUGH                   | SEALASKA CORP.              |
| BIRCH CREEK        | YUKON/KOYUKUK                   | DOYON LTD.                  |
| BIRCH LAKE         | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| BIRCHWOOD          | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| BIRD CREEK         | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| BODENBURG BUTTE    | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| BOUNDARY           | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| BRADFIELD CANAL    | WRANGELL/PETERSBURG             | SEALASKA CORP.              |
| BREVIG MISSION     | NOME                            | BERING STRAITS CORP.        |
| BROAD PASS         | MATANUSKA-SUSITNA BOROUGH       | AHTNA INC.                  |
| BUCKLAND           | NORTHWEST ARCTIC BOROUGH        | NANA REGIONAL CORP.         |
| BUTTE              | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| CAMP CARROL        | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| CAMPION AFS        | YUKON/KOYUKUK                   | DOYON LTD.                  |
| CANDLE             | NORTHWEST ARCTIC BOROUGH        | NANA REGIONAL CORP.         |
| CANTWELL           | DENALI BOROUGH                  | AHTNA INC.                  |
| CANYON CITY        | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| CANYON VILLAGE     | YUKON/KOYUKUK                   | DOYON LTD.                  |
| CAPE LISBURNE      | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| CAPE NEWENHAM AFS  | BETHEL                          | CALISTA CORP.               |
| CAPE POLE          | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| CAPE ROMANZOFF     | WADE HAMPTON                    | CALISTA CORP.               |
| CAPE YAKATAGA      | VALDEZ/CORDOVA                  | CHUGACH NATIVES INC.        |
| CASWELL            | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| CENTRAL            | YUKON/KOYUKUK                   | DOYON LTD.                  |
| CHALKYITSIK        | YUKON/KOYUKUK                   | DOYON LTD.                  |
| CHANDALAR          | YUKON/KOYUKUK                   | DOYON LTD.                  |
| CHANLILIUT         | WADE HAMPTON                    | CALISTA CORP.               |
| CHASE              | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| CHATANIKA          | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| CHEFORNAK          | BETHEL                          | CALISTA CORP.               |
| CHENA HOT SPRINGS  | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| CHENEGA            | VALDEZ/CORDOVA                  | CHUGACH NATIVES INC.        |
| CHEVAK             | WADE HAMPTON                    | CALISTA CORP.               |
| CHICHAGOF          | SITKA BOROUGH                   | SEALASKA CORP.              |
| CHICKALOON         | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| CHICKEN            | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| CHIGNIK            | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| CHIGNIK LAGOON     | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| CHIGNIK LAKE       | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| CHILKAT            | HAINES BOROUGH                  | SEALASKA CORP.              |
| CHILKOOT           | HAINES BOROUGH                  | SEALASKA CORP.              |
| CHINIAK            | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| CHISANA            | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| CHISTOCHINA        | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| CHITINA            | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| CHRISTIAN          | YUKON/KOYUKUK                   | DOYON LTD.                  |
| CHUATHBALUK        | BETHEL                          | CALISTA CORP.               |
| CHUGIAK            | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| CHULITNA           | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| CHULLONAWICK       | WADE HAMPTON                    | CALISTA CORP.               |
| CIRCLE             | YUKON/KOYUKUK                   | DOYON LTD.                  |
| CIRCLE HOT SPRINGS | YUKON/KOYUKUK                   | DOYON LTD.                  |
| CLAM GULCH         | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| CLARKS POINT       | DILLINGHAM                      | BRISTOL BAY CORP.           |
| CLEAR              | DENALI BOROUGH                  | DOYON LTD.                  |
| CLOVER PASS        | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |
| COFFMAN COVE       | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| COHOE              | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| COLD BAY           | ALEUTIANS EAST                  | ALEUT CORP.                 |



| LOCATION        | CENSUS AREA                     | NATIVE REGIONAL CORPORATION |
|-----------------|---------------------------------|-----------------------------|
| COLDFOOT        | YUKON/KOYUKUK                   | DOYON LTD.                  |
| COLLEGE         | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| COOPER LANDING  | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| COPPER CENTER   | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| COPPERVILLE     | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| CORDOVA         | VALDEZ/CORDOVA                  | CHUGACH NATIVES INC.        |
| COUNCIL         | NOME                            | BERING STRAITS CORP.        |
| COVENANT LIFE   | HAINES BOROUGH                  | SEALASKA CORP.              |
| CRAIG           | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| CROOKED CREEK   | BETHEL                          | CALISTA CORP.               |
| CROWN POINT     | KENAI PENINSULA BOROUGH         | CHUGACH NATIVES INC.        |
| CUBE COVE       | ANGOON/HOONAH/SKAGWAY           | SEALASKA CORP.              |
| CURRY           | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| CUTOFF          | YUKON/KOYUKUK                   | DOYON LTD.                  |
| DALTON HWY 1    | YUKON/KOYUKUK                   | DOYON LTD.                  |
| DALTON HWY 2    | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| DANGER BAY      | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| DEADHORSE       | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| DEERING         | NORTHWEST ARCTIC BOROUGH        | NANA REGIONAL CORP.         |
| DELTA JUNCTION  | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| DENALI PARK     | DENALI BOROUGH                  | DOYON LTD.                  |
| DILLINGHAM      | DILLINGHAM                      | BRISTOL BAY CORP.           |
| DIOMEDE         | NOME                            | BERING STRAITS CORP.        |
| DOME            | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| DORA BAY        | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| DOT LAKE        | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| DOUGLAS         | JUNEAU BOROUGH                  | SEALASKA CORP.              |
| DRY CREEK       | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| DUNBAR          | YUKON/KOYUKUK                   | DOYON LTD.                  |
| DUTCH HARBOR    | ALEUTIANS WEST                  | ALEUT CORP.                 |
| EAGLE           | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| EAGLE RIVER     | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| EAGLE VILLAGE   | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| EDGERTON HWY    | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| EDNA BAY        | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| EEK             | BETHEL                          | CALISTA CORP.               |
| EGEGIK          | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| EIELSON AFB     | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| EKLUTNA         | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| EKUK            | DILLINGHAM                      | BRISTOL BAY CORP.           |
| EKWOK           | DILLINGHAM                      | BRISTOL BAY CORP.           |
| ELFIN COVE      | ANGOON/HOONAH/SKAGWAY           | SEALASKA CORP.              |
| ELIM            | NOME                            | BERING STRAITS CORP.        |
| ELLAMAR         | VALDEZ/CORDOVA                  | CHUGACH NATIVES INC.        |
| ELLIOTT HWY 1   | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| ELLIOTT HWY 2   | YUKON/KOYUKUK                   | DOYON LTD.                  |
| ELMENDORF AFB   | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| EMMONAK         | WADE HAMPTON                    | CALISTA CORP.               |
| ENGLISH BAY     | KENAI PENINSULA BOROUGH         | CHUGACH NATIVES INC.        |
| ESKA            | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| ESTER           | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| ETOLIN          | WRANGELL/PETERSBURG             | SEALASKA CORP.              |
| EUREKA LODGE    | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| EVANSVILLE      | YUKON/KOYUKUK                   | DOYON LTD.                  |
| EXCURSION INLET | HAINES BOROUGH                  | SEALASKA CORP.              |
| EYAK            | VALDEZ/CORDOVA                  | CHUGACH NATIVES INC.        |
| FAIRBANKS       | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| FALSE ISLAND    | SITKA BOROUGH                   | SEALASKA CORP.              |
| FALSE PASS      | ALEUTIANS EAST                  | ALEUT CORP.                 |
| FAREWELL        | YUKON/KOYUKUK                   | DOYON LTD.                  |
| FERRY           | DENALI BOROUGH                  | DOYON LTD.                  |
| FIRE ISLAND     | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |

| LOCATION           | CENSUS AREA                     | NATIVE REGIONAL CORPORATION |
|--------------------|---------------------------------|-----------------------------|
| FLAT               | YUKON/KOYUKUK                   | DOYON LTD.                  |
| FORT GREELY        | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| FORT RANDALL       | ALEUTIANS EAST                  | ALEUT CORP.                 |
| FORT RICHARDSON    | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| FORT WAINWRIGHT    | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| FORT YUKON         | YUKON/KOYUKUK                   | DOYON LTD.                  |
| FORTUNA LEDGE      | WADE HAMPTON                    | CALISTA CORP.               |
| FOX                | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| FOX RIVER          | KENAI PENINSULA BOROUGH         | CHUGACH NATIVES INC.        |
| FRESHWATER BAY     | ANGOON/HOONAH/SKAGWAY           | SEALASKA CORP.              |
| FRITZ CREEK        | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| FUNTER BAY         | ANGOON/HOONAH/SKAGWAY           | SEALASKA CORP.              |
| GAKONA             | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| GALENA             | YUKON/KOYUKUK                   | DOYON LTD.                  |
| GALLA LOGG CAMP    | WRANGELL/PETERSBURG             | SEALASKA CORP.              |
| GAMBELL            | NOME                            | BERING STRAITS CORP.        |
| GAME CREEK         | ANGOON/HOONAH/SKAGWAY           | SEALASKA CORP.              |
| GEORGE INLET       | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |
| GEORGETOWN         | BETHEL                          | CALISTA CORP.               |
| GIRDWOOD           | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| GLENN HWY MI 22    | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| GLENN HWY 1        | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| GLENN HWY 2        | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| GLENN HWY 3        | MATANUSKA-SUSITNA BOROUGH       | AHTNA INC.                  |
| GLENN HWY 4        | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| GLENN HWY 5        | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| GLENNALLEN         | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| GODDARD            | SITKA BOROUGH                   | SEALASKA CORP.              |
| GOLD CREEK         | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| GOLOVIN            | NOME                            | BERING STRAITS CORP.        |
| GOODNEWS BAY       | BETHEL                          | CALISTA CORP.               |
| GRAEHL             | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| GRAYLING           | YUKON/KOYUKUK                   | DOYON LTD.                  |
| GROUSE CREEK GROUP | KENAI PENINSULA BOROUGH         | CHUGACH NATIVES INC.        |
| GULKANA            | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| GUSTAVUS           | ANGOON/HOONAH/SKAGWAY           | SEALASKA CORP.              |
| HAINES             | HAINES BOROUGH                  | SEALASKA CORP.              |
| HALIBUT COVE       | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| HAMILTON           | WADE HAMPTON                    | CALISTA CORP.               |
| HAMILTON ACRES     | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| HAPPY VALLEY       | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| HARDING LAKE       | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| HASSLER PASS       | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |
| HAWK INLET         | ANGOON/HOONAH/SKAGWAY           | SEALASKA CORP.              |
| HAYCOCK            | NOME                            | BERING STRAITS CORP.        |
| HEALY              | DENALI BOROUGH                  | DOYON LTD.                  |
| HEALY LAKE         | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| HERRING COVE       | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |
| HERRING POINT      | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |
| HOBART BAY         | ANGOON/HOONAH/SKAGWAY           | SEALASKA CORP.              |
| HOGATZA            | YUKON/KOYUKUK                   | DOYON LTD.                  |
| HOLIKACHUK         | YUKON/KOYUKUK                   | DOYON LTD.                  |
| HOLITNA RIVER      | BETHEL                          | CALISTA CORP.               |
| HOLLIS             | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| HOLY CROSS         | YUKON/KOYUKUK                   | DOYON LTD.                  |
| HOMER              | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| HOONAH             | ANGOON/HOONAH/SKAGWAY           | SEALASKA CORP.              |
| HOOPER BAY         | WADE HAMPTON                    | CALISTA CORP.               |
| HOPE               | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| HOUSTON            | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| HUGHES             | YUKON/KOYUKUK                   | DOYON LTD.                  |
| HURRICANE          | MATANUSKA-SUSITNA BOROUGH       | DOYON LTD.                  |

| LOCATION           | CENSUS AREA                     | NATIVE REGIONAL CORPORATION |
|--------------------|---------------------------------|-----------------------------|
| HUSLIA             | YUKON/KOYUKUK                   | DOYON LTD.                  |
| HYDABURG           | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| HYDER              | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| ICY BAY            | VALDEZ/CORDOVA                  | CHUGACH NATIVES INC.        |
| IDITAROD           | YUKON/KOYUKUK                   | DOYON LTD.                  |
| IGIUGIG            | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| IGLOO              | NOME                            | BERING STRAITS CORP.        |
| ILIAMNA            | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| INALIK             | NOME                            | BERING STRAITS CORP.        |
| INDIAN             | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| INDIAN MOUNTAIN    | YUKON/KOYUKUK                   | DOYON LTD.                  |
| IVANOFF BAY        | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| JAKOLOF BAY        | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| JONESVILLE         | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| JUNEAU             | JUNEAU BOROUGH                  | SEALASKA CORP.              |
| KACHAMAK           | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| KAGUYAK            | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| KAKE               | WRANGELL/PETERSBURG             | SEALASKA CORP.              |
| KAKHONAK BAY       | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| KAKTOVIK           | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| KALIFONSKY         | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| KALSKAG            | BETHEL                          | CALISTA CORP.               |
| KALTAG             | YUKON/KOYUKUK                   | DOYON LTD.                  |
| KANAKANAK          | DILLINGHAM                      | BRISTOL BAY CORP.           |
| KARLUK             | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| KASAAN             | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| KASHWITNA          | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| KASIGLUK           | BETHEL                          | CALISTA CORP.               |
| KASILOF            | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| KENAI              | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| KENNY LAKE         | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| KETCHIKAN          | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |
| KETCHIKAN EAST     | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |
| KETCHIKAN SUBURBAN | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |
| KEYALUVIK          | BETHEL                          | CALISTA CORP.               |
| KIANA              | NORTHWEST ARCTIC BOROUGH        | NANA REGIONAL CORP.         |
| KING COVE          | ALEUTIANS EAST                  | ALEUT CORP.                 |
| KING ISLAND        | NOME                            | BERING STRAITS CORP.        |
| KING SALMON        | BRISTOL BAY BOROUGH             | BRISTOL BAY CORP.           |
| KINGEGAN           | NOME                            | BERING STRAITS CORP.        |
| KIPNUK             | BETHEL                          | CALISTA CORP.               |
| KITOI BAY          | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| KIVALINA           | NORTHWEST ARCTIC BOROUGH        | NANA REGIONAL CORP.         |
| KIWALIK            | NORTHWEST ARCTIC BOROUGH        | NANA REGIONAL CORP.         |
| KLAWOCK            | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| KLUCHEVA           | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| KLUCHEVAYA         | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| KLUKWAN            | ANGOON/HOONAH/SKAGWAY           | SEALASKA CORP.              |
| KNIK               | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| KNUDSON COVE       | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |
| KOBUK              | NORTHWEST ARCTIC BOROUGH        | NANA REGIONAL CORP.         |
| KODIAK             | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| KODIAK NAVAL ST    | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| KOKHANOK           | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| KOKRINES           | YUKON/KOYUKUK                   | DOYON LTD.                  |
| KOLIGANEK          | DILLINGHAM                      | BRISTOL BAY CORP.           |
| KONGIGANAK         | BETHEL                          | CALISTA CORP.               |
| KOTLIK             | WADE HAMPTON                    | CALISTA CORP.               |
| KOTZEBUE           | NORTHWEST ARCTIC BOROUGH        | NANA REGIONAL CORP.         |
| KOYUK              | NOME                            | BERING STRAITS CORP.        |
| KOYUKUK            | YUKON/KOYUKUK                   | DOYON LTD.                  |
| KUPREANOF          | WRANGELL/PETERSBURG             | SEALASKA CORP.              |

| LOCATION           | CENSUS AREA                     | NATIVE REGIONAL CORPORATION |
|--------------------|---------------------------------|-----------------------------|
| KUSKOKWIM RIVER 1  | BETHEL                          | CALISTA CORP.               |
| KUSKOKWIM RIVER 2  | BETHEL                          | CALISTA CORP.               |
| KUSKOKWIM RIVER 3  | YUKON/KOYUKUK                   | DOYON LTD.                  |
| KUZITRINE RIVER    | NOME                            | BERING STRAITS CORP.        |
| KVICHAK            | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| KWETHLUK           | BETHEL                          | CALISTA CORP.               |
| KWIGILLINGOK       | BETHEL                          | CALISTA CORP.               |
| KWIGOK             | WADE HAMPTON                    | CALISTA CORP.               |
| LABOUCHERE BAY     | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| LADD AFB           | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| LAKE CLARK PASS    | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| LAKE MINCHUMINA    | YUKON/KOYUKUK                   | DOYON LTD.                  |
| LARSEN BAY         | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| LAZY BAY           | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| LAZY MOUNTAIN      | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| LEMETA             | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| LENA BEACH         | JUNEAU BOROUGH                  | SEALASKA CORP.              |
| LENA COVE          | JUNEAU BOROUGH                  | SEALASKA CORP.              |
| LEVELOCK           | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| LIGNITE            | DENALI BOROUGH                  | DOYON LTD.                  |
| LIME VILLAGE       | BETHEL                          | CALISTA CORP.               |
| LITTLE DIOMEDE     | NOME                            | BERING STRAITS CORP.        |
| LITTLE PORT WALTER | SITKA BOROUGH                   | SEALASKA CORP.              |
| LIVENGOOD          | YUKON/KOYUKUK                   | DOYON LTD.                  |
| LONELY             | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| LONG ISLAND        | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| LORING             | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |
| LOST RIVER         | NOME                            | BERING STRAITS CORP.        |
| LOWER KALSKAG      | BETHEL                          | CALISTA CORP.               |
| LOWER TONSINA      | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| LUTAK              | HAINES BOROUGH                  | SEALASKA CORP.              |
| MANLEY HOT SPRINGS | YUKON/KOYUKUK                   | DOYON LTD.                  |
| MANOKOTAK          | DILLINGHAM                      | BRISTOL BAY CORP.           |
| MARSHALL           | WADE HAMPTON                    | CALISTA CORP.               |
| MARYS IGLOO        | NOME                            | BERING STRAITS CORP.        |
| MAY CREEK          | NORTHWEST ARCTIC BOROUGH        | NANA REGIONAL CORP.         |
| MCCARTHY           | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| MCGRATH            | YUKON/KOYUKUK                   | DOYON LTD.                  |
| MCKINLEY PARK      | DENALI BOROUGH                  | DOYON LTD.                  |
| MEADOW LAKES       | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| MEAKERVILLE        | VALDEZ/CORDOVA                  | CHUGACH NATIVES INC.        |
| MEDFRA             | YUKON/KOYUKUK                   | DOYON LTD.                  |
| MEKORYUK           | BETHEL                          | CALISTA CORP.               |
| MENDEL TNA LODGE   | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| MENTASTA LAKE      | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| METLAKATLA         | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| MEYERS CHUCK       | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| MILLER HOUSE       | YUKON/KOYUKUK                   | DOYON LTD.                  |
| MINTO              | YUKON/KOYUKUK                   | DOYON LTD.                  |
| MONTANA            | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| MONTANA CRK LODGE  | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| MOOSE CREEK        | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| MOOSE PASS         | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| MOSER BAY          | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| MOSES POINT        | NOME                            | BERING STRAITS CORP.        |
| MOUNTAIN POINT     | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |
| MOUNTAIN VIEW      | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| MOUNTAIN VILLAGE   | WADE HAMPTON                    | CALISTA CORP.               |
| MT DENALI          | DENALI BOROUGH                  | DOYON LTD.                  |
| MT EDGE CUMBE      | SITKA BOROUGH                   | SEALASKA CORP.              |
| MT MC KINLEY       | DENALI BOROUGH                  | DOYON LTD.                  |
| MUMTRAK            | BETHEL                          | CALISTA CORP.               |

| LOCATION          | CENSUS AREA                     | NATIVE REGIONAL CORPORATION |
|-------------------|---------------------------------|-----------------------------|
| MURPHY DOME       | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| NABESNA           | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| NAKNEK            | BRISTOL BAY BOROUGH             | BRISTOL BAY CORP.           |
| NANAKA            | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| NANWALEK          | KENAI PENINSULA BOROUGH         | CHUGACH NATIVES INC.        |
| NAPAIMUTE         | BETHEL                          | CALISTA CORP.               |
| NAPAKIAK          | BETHEL                          | CALISTA CORP.               |
| NAPASKIAK         | BETHEL                          | CALISTA CORP.               |
| NAUKATI BAY       | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| NEETS BAY         | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |
| NELSON LAGOON     | ALEUTIANS EAST                  | ALEUT CORP.                 |
| NENANA            | YUKON/KOYUKUK                   | DOYON LTD.                  |
| NEW STUYAHOK      | DILLINGHAM                      | BRISTOL BAY CORP.           |
| NEWHALEN          | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| NEWTOK            | BETHEL                          | CALISTA CORP.               |
| NIGHTMUTE         | BETHEL                          | CALISTA CORP.               |
| NIKISKI           | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| NIKOLAEVSK        | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| NIKOLAI           | YUKON/KOYUKUK                   | DOYON LTD.                  |
| NIKOLSKI          | ALEUTIANS WEST                  | ALEUT CORP.                 |
| NINILCHIK         | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| NOATAK            | NORTHWEST ARCTIC BOROUGH        | NANA REGIONAL CORP.         |
| NOHODKA           | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| NOME              | NOME                            | BERING STRAITS CORP.        |
| NONDALTON         | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| NOORVIK           | NORTHWEST ARCTIC BOROUGH        | NANA REGIONAL CORP.         |
| NORTH KENAI       | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| NORTH POLE        | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| NORTH WHALE PASS  | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| NORTHEAST CAPE    | NOME                            | BERING STRAITS CORP.        |
| NORTHWAY          | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| NORTHWAY JUNCTION | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| NORTHWAY VILLAGE  | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| NUIQSUT           | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| NULATO            | YUKON/KOYUKUK                   | DOYON LTD.                  |
| NUNAKA VALLEY     | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| NUNAPITCHUK       | BETHEL                          | CALISTA CORP.               |
| NUNIVAK ISLAND    | BETHEL                          | CALISTA CORP.               |
| NUSHAGAK          | DILLINGHAM                      | BRISTOL BAY CORP.           |
| NYAC              | BETHEL                          | CALISTA CORP.               |
| OHGSENAKALE       | DILLINGHAM                      | BRISTOL BAY CORP.           |
| OHOGAMIUTE        | WADE HAMPTON                    | CALISTA CORP.               |
| OLD HARBOR        | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| OLNES             | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| OPHIR             | YUKON/KOYUKUK                   | DOYON LTD.                  |
| OSCARVILLE        | BETHEL                          | CALISTA CORP.               |
| OZINKIE           | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| PAIMUTE           | WADE HAMPTON                    | CALISTA CORP.               |
| PALMER            | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| PARKS HWY 1       | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| PARKS HWY 2       | MATANUSKA-SUSITNA BOROUGH       | DOYON LTD.                  |
| PARKS HWY 3       | MATANUSKA-SUSITNA BOROUGH       | AHTNA INC.                  |
| PARKS HWY 4       | DENALI BOROUGH                  | AHTNA INC.                  |
| PARKS HWY 5       | DENALI BOROUGH                  | DOYON LTD.                  |
| PARKS HWY 6       | YUKON/KOYUKUK                   | UNKNOWN                     |
| PARKS HWY 7       | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| PASTOLIK          | WADE HAMPTON                    | CALISTA CORP.               |
| PAULOFF HARBOR    | ALEUTIANS EAST                  | ALEUT CORP.                 |
| PAXSON            | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| PEDRO BAY         | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| PELICAN           | ANGOON/HOONAH/SKAGWAY           | SEALASKA CORP.              |
| PENNOCK ISLAND    | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |

| LOCATION               | CENSUS AREA                     | NATIVE REGIONAL CORPORATION |
|------------------------|---------------------------------|-----------------------------|
| PERKINSVILLE           | NOME                            | BERING STRAITS CORP.        |
| PERRYVILLE             | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| PETERS CREEK           | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| PETERSBURG             | WRANGELL/PETERSBURG             | SEALASKA CORP.              |
| PETERSVILLE            | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| PILOT POINT            | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| PILOT STATION          | WADE HAMPTON                    | CALISTA CORP.               |
| PITKA'S POINT          | WADE HAMPTON                    | CALISTA CORP.               |
| PLATINUM               | BETHEL                          | CALISTA CORP.               |
| PLEASANT VALLEY        | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| POINT BAKER            | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| POINT BARROW           | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| POINT HOPE             | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| POINT LAY              | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| POLK INLET             | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| POPE & VANNOY          | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| PORT ALEXANDER         | WRANGELL/PETERSBURG             | SEALASKA CORP.              |
| PORT ALICE             | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| PORT ALSWORTH          | LAKE AND PENINSULA              | COOK INLET REG CORP.        |
| PORT ARMSTRONG         | SITKA BOROUGH                   | SEALASKA CORP.              |
| PORT ASHTON            | VALDEZ/CORDOVA                  | CHUGACH NATIVES INC.        |
| PORT BAILEY            | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| PORT CHILKOOT          | HAINES BOROUGH                  | SEALASKA CORP.              |
| PORT CLARENCE          | NOME                            | BERING STRAITS CORP.        |
| PORT GRAHAM            | KENAI PENINSULA BOROUGH         | CHUGACH NATIVES INC.        |
| PORT HEIDEN            | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| PORT LIONS             | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| PORT MOLLER            | ALEUTIANS EAST                  | ALEUT CORP.                 |
| PORT PROTECTION        | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| PORT WAKEFIELD         | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| PORTAGE                | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| PORTAGE CREEK          | DILLINGHAM                      | BRISTOL BAY CORP.           |
| PORTLOCK               | KENAI PENINSULA BOROUGH         | CHUGACH NATIVES INC.        |
| PRINCE OF WALES LOG CP | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| PRIMROSE               | KENAI PENINSULA BOROUGH         | CHUGACH NATIVES INC.        |
| PRUDHOE BAY            | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| QUINHAGAK              | BETHEL                          | CALISTA CORP.               |
| RAMPART                | YUKON/KOYUKUK                   | DOYON LTD.                  |
| RED DEVIL              | BETHEL                          | CALISTA CORP.               |
| RED MOUNTAIN           | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| RICHARDSON HWY 1       | VALDEZ/CORDOVA                  | CHUGACH NATIVES INC.        |
| RICHARDSON HWY 2       | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| RICHARDSON HWY 3       | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| RICHARDSON HWY 4       | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| RIDGEWAY               | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| ROWAN BAY              | WRANGELL/PETERSBURG             | SEALASKA CORP.              |
| RUBY                   | YUKON/KOYUKUK                   | DOYON LTD.                  |
| RUSS MISS KUSK RV      | BETHEL                          | CALISTA CORP.               |
| RUSSIAN MISSION        | WADE HAMPTON                    | CALISTA CORP.               |
| SALAMATOF              | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| SALCHA                 | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| SALCHAKET              | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| SANAK                  | ALEUTIANS EAST                  | ALEUT CORP.                 |
| SAND POINT             | ALEUTIANS EAST                  | ALEUT CORP.                 |
| SAVOONGA               | NOME                            | BERING STRAITS CORP.        |
| SAXMAN                 | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |
| SAXMAN EAST            | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |
| SCAMMON BAY            | WADE HAMPTON                    | CALISTA CORP.               |
| SCOTTY CREEK           | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| SELAWIK                | NORTHWEST ARCTIC BOROUGH        | NANA REGIONAL CORP.         |
| SELDOVIA               | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| SEVONOSKI              | BRISTOL BAY BOROUGH             | BRISTOL BAY CORP.           |

| LOCATION           | CENSUS AREA                     | NATIVE REGIONAL CORPORATION |
|--------------------|---------------------------------|-----------------------------|
| SEWARD             | KENAI PENINSULA BOROUGH         | CHUGACH NATIVES INC.        |
| SHAGELUK           | YUKON/KOYUKUK                   | DOYON LTD.                  |
| SHAKTOOLIK         | NOME                            | BERING STRAITS CORP.        |
| SHELDON POINT      | WADE HAMPTON                    | CALISTA CORP.               |
| SHEMYA AFB         | ALEUTIANS WEST                  | ALEUT CORP.                 |
| SHISHMAREF         | NOME                            | BERING STRAITS CORP.        |
| SHUNGNAK           | NORTHWEST ARCTIC BOROUGH        | NANA REGIONAL CORP.         |
| SILVER TIP         | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| SITKA              | SITKA BOROUGH                   | SEALASKA CORP.              |
| SITKA LOGGING CAMP | SITKA BOROUGH                   | SEALASKA CORP.              |
| SKAGWAY            | ANGOON/HOONAH/SKAGWAY           | SEALASKA CORP.              |
| SKWENTNA           | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| SLANA              | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| SLATERVILLE        | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| SLEETMUTE          | BETHEL                          | CALISTA CORP.               |
| SNETTISHAM         | JUNEAU BOROUGH                  | SEALASKA CORP.              |
| SOLDOTNA           | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| SOLOMON            | NOME                            | BERING STRAITS CORP.        |
| SOURDOUGH          | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| SOUTH NAKNEK       | BRISTOL BAY BOROUGH             | BRISTOL BAY CORP.           |
| SPARREVOHN         | BETHEL                          | CALISTA CORP.               |
| SPENARD            | ANCHORAGE BOROUGH               | COOK INLET REG CORP.        |
| SQUAW HARBOR       | ALEUTIANS EAST                  | ALEUT CORP.                 |
| ST. GEORGE ISLAND  | ALEUTIANS WEST                  | ALEUT CORP.                 |
| ST. JOHN HARBOR    | WRANGELL/PETERSBURG             | SEALASKA CORP.              |
| ST. LAWRENCE IS.   | NOME                            | BERING STRAITS CORP.        |
| ST. MARY'S         | WADE HAMPTON                    | CALISTA CORP.               |
| ST. MICHAEL        | NOME                            | BERING STRAITS CORP.        |
| ST. PAUL ISLAND    | ALEUTIANS WEST                  | ALEUT CORP.                 |
| STEBBINS           | NOME                            | BERING STRAITS CORP.        |
| STEESE HWY 1       | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| STEESE HWY 2       | YUKON/KOYUKUK                   | DOYON LTD.                  |
| STERLING           | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| STEVENS VILLAGE    | YUKON/KOYUKUK                   | DOYON LTD.                  |
| STONY RIVER        | BETHEL                          | CALISTA CORP.               |
| SUMMIT             | MATANUSKA-SUSITNA BOROUGH       | AHTNA INC.                  |
| SUNRISE VILLAGE    | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| SUNSHINE           | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| SUNTRANA           | DENALI BOROUGH                  | DOYON LTD.                  |
| SUSITNA            | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| SUTTON             | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| TAKOTNA            | YUKON/KOYUKUK                   | DOYON LTD.                  |
| TAKU HARBOR        | JUNEAU BOROUGH                  | SEALASKA CORP.              |
| TALKEETNA          | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| TANACROSS          | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| TANANA             | YUKON/KOYUKUK                   | DOYON LTD.                  |
| TANUNAK            | BETHEL                          | CALISTA CORP.               |
| TATALINA AFS       | YUKON/KOYUKUK                   | DOYON LTD.                  |
| TATITLEK           | VALDEZ/CORDOVA                  | CHUGACH NATIVES INC.        |
| TAYLOR HWY         | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| TAZLINA            | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| TEE HARBOR         | JUNEAU BOROUGH                  | SEALASKA CORP.              |
| TELIDA             | YUKON/KOYUKUK                   | DOYON LTD.                  |
| TELLER             | NOME                            | BERING STRAITS CORP.        |
| TELLER MISSION     | NOME                            | BERING STRAITS CORP.        |
| TENAKEE SPRINGS    | ANGOON/HOONAH/SKAGWAY           | SEALASKA CORP.              |
| TETLIN             | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| THOMAS BASIN       | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |
| THORNE BAY         | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| TIKIKLUK           | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| TIN CITY AFS       | NOME                            | BERING STRAITS CORP.        |
| TOGIAC             | DILLINGHAM                      | BRISTOL BAY CORP.           |

| LOCATION        | CENSUS AREA                     | NATIVE REGIONAL CORPORATION |
|-----------------|---------------------------------|-----------------------------|
| TOK JUNCTION    | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| TOKEEN          | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| TOKSOOK BAY     | BETHEL                          | CALISTA CORP.               |
| TONSINA         | VALDEZ/CORDOVA                  | AHTNA INC.                  |
| TRAPPER CREEK   | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| TULUKSAK        | BETHEL                          | CALISTA CORP.               |
| TUNTUTULIAK     | BETHEL                          | CALISTA CORP.               |
| TUSTUMENA       | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| TUXEKAN         | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| TWELVE MILE ARM | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| TWIN HILLS      | DILLINGHAM                      | BRISTOL BAY CORP.           |
| TWO RIVERS      | FAIRBANKS NORTH STAR BOROUGH    | DOYON LTD.                  |
| TYONEK          | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| UGANIK BAY      | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| UGASHIK         | LAKE AND PENINSULA              | BRISTOL BAY CORP.           |
| UKIVOK          | NOME                            | BERING STRAITS CORP.        |
| UMIAT           | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| UMKUMUTE        | BETHEL                          | CALISTA CORP.               |
| UNALAKLEET      | NOME                            | BERING STRAITS CORP.        |
| UNALASKA        | ALEUTIANS WEST                  | ALEUT CORP.                 |
| UNGA            | ALEUTIANS EAST                  | ALEUT CORP.                 |
| UPPER KALSKAG   | BETHEL                          | CALISTA CORP.               |
| USIBELLI        | DENALI BOROUGH                  | DOYON LTD.                  |
| UYAK            | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| VALDEZ          | VALDEZ/CORDOVA                  | CHUGACH NATIVES INC.        |
| VENETIE         | YUKON/KOYUKUK                   | DOYON LTD.                  |

MAP H.1 CENSUS AREAS OF ALASKA

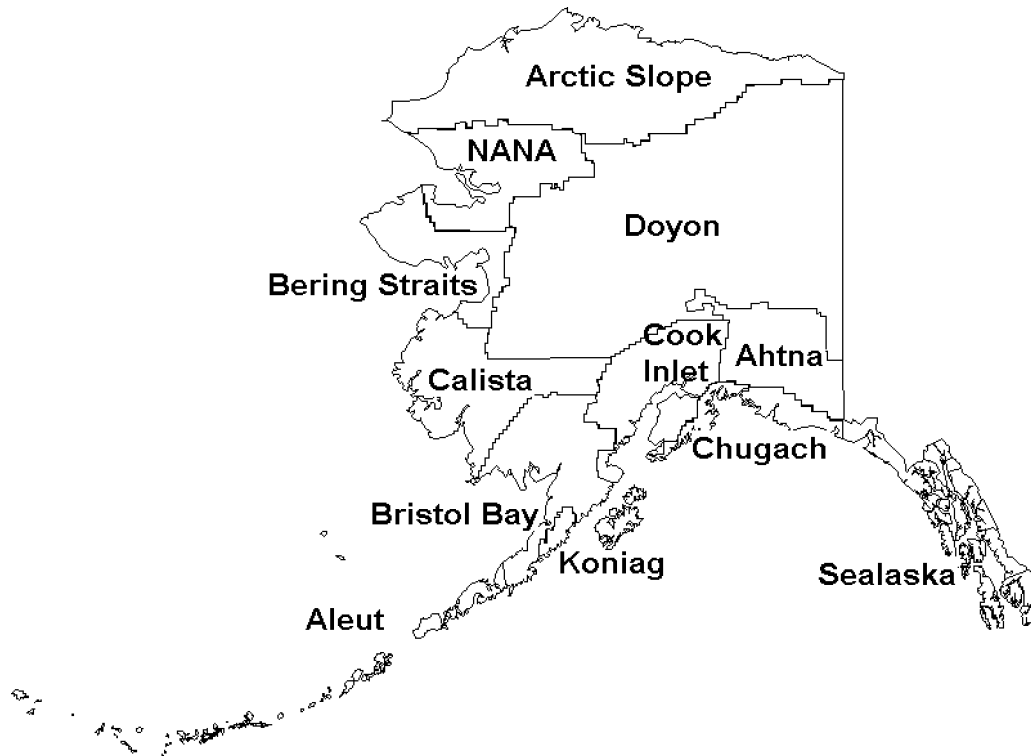




| LOCATION           | CENSUS AREA                     | NATIVE REGIONAL CORPORATION |
|--------------------|---------------------------------|-----------------------------|
| WACKER             | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |
| WAINWRIGHT         | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| WALES              | NOME                            | BERING STRAITS CORP.        |
| WARD COVE          | KETCHIKAN GATEWAY BOROUGH       | SEALASKA CORP.              |
| WASILLA            | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| WATERFALL          | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| WEST POINT         | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| WEVOK              | NORTH SLOPE BOROUGH             | ARCTIC SLOPE CORP.          |
| WHALE PASS         | PRINCE OF WALES/OUTER KETCHIKAN | SEALASKA CORP.              |
| WHITE MOUNTAIN     | NOME                            | BERING STRAITS CORP.        |
| WHITESTONE LOGGING | ANGOON/HOONAH/SKAGWAY           | SEALASKA CORP.              |
| WHITTIER           | VALDEZ/CORDOVA                  | CHUGACH NATIVES INC.        |
| WILDWOOD AFS       | KENAI PENINSULA BOROUGH         | COOK INLET REG CORP.        |
| WILLOW             | MATANUSKA-SUSITNA BOROUGH       | COOK INLET REG CORP.        |
| WISEMAN            | YUKON/KOYUKUK                   | DOYON LTD.                  |
| WOMENS BAY         | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| WOODY ISLAND       | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| WRANGELL           | WRANGELL/PETERSBURG             | SEALASKA CORP.              |
| YAKATAGA           | VALDEZ/CORDOVA                  | CHUGACH NATIVES INC.        |
| YAKUTAT            | YAKUTAT                         | SEALASKA CORP.              |
| YUKON RIVER BRIDGE | YUKON/KOYUKUK                   | DOYON LTD.                  |
| YUKON RIVER 1      | WADE HAMPTON                    | CALISTA CORP.               |
| YUKON RIVER 2      | YUKON/KOYUKUK                   | DOYON LTD.                  |
| YUKON RIVER 3      | YUKON/KOYUKUK                   | DOYON LTD.                  |
| YUKON RIVER 4      | YUKON/KOYUKUK                   | DOYON LTD.                  |
| YUKON RIVER 5      | SOUTHEAST FAIRBANKS             | DOYON LTD.                  |
| ZACHER BAY         | KODIAK ISLAND BOROUGH           | KONIAG INC.                 |
| ZAREMBO ISLAND     | WRANGELL/PETERSBURG             | SEALASKA CORP.              |

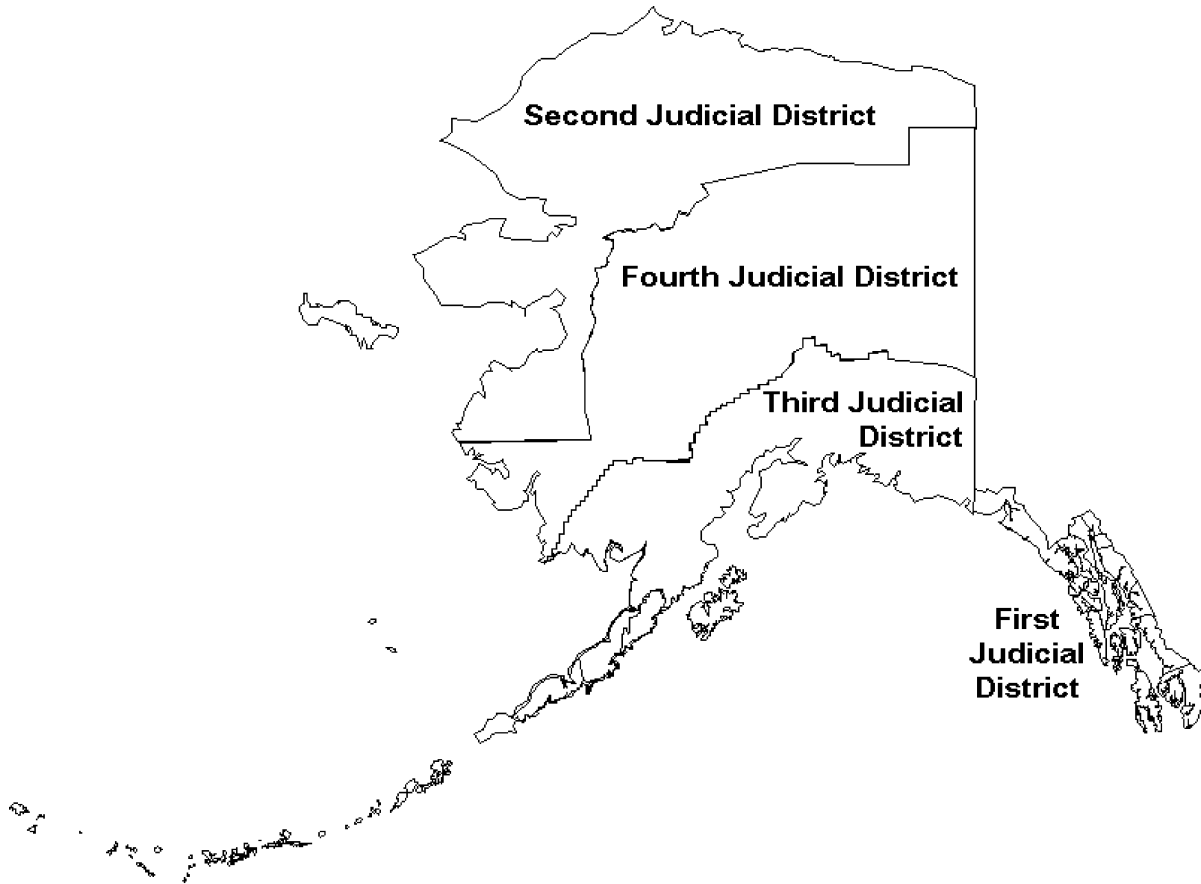
MAP H.2

ALASKA'S NATIVE REGIONAL CORPORATIONS



| LOCATION | CENSUS AREA | NATIVE REGIONAL CORPORATION |
|----------|-------------|-----------------------------|
|----------|-------------|-----------------------------|

MAP H.3 ALASKA COURT LOCATIONS



| <u>1st Judicial District</u>   | <u>2nd Judicial District</u>   | <u>3rd Judicial District</u>   | <u>4th Judicial District</u>  |
|--|--|--|---|
| <b>Superior Courts</b><br>Juneau Sitka<br>Ketchikan  | <b>Superior Courts</b><br>Barrow Nome<br>Kotzebue  | <b>Superior Courts</b><br>Anchorage Kodiak<br>Dillingham Palmer<br>Kenai   | <b>Superior Courts</b><br>Bethel Fairbanks  |
| <b>District Courts</b><br>Juneau<br>Ketchikan  | <b>District Courts</b><br>None   | <b>District Courts</b><br>Anchorage Palmer<br>Homer Valdez   | <b>District Court</b><br>Fairbanks  |
| <b>Magistrates</b><br>Angoon Pelican<br>Craig Petersburg<br>Haines Sitka<br>Hoonah Skagway<br>Juneau Wrangell<br>Kake Yakutat<br>Ketchikan | <b>Magistrates</b><br>Ambler/Shungnak<br>Barrow<br>Gambell/Savoonga<br>Kiana/Selawik/Noorvik<br>Kotzebue<br>Nome | <b>Magistrates</b><br>Cordova St. Paul Is.<br>Dillingham Sand Point<br>Glennallen Seward<br>Kenai Unalaska<br>Kodiak Valdez<br>Naknek Whittier<br>Palmer | <b>Magistrates</b><br>Aniak Galena/<br>Bethel McGrath<br>Chevak/ Healy/<br>Hooper Nenana/<br>Bay Tanana<br>Delta Jct. Quinhagak<br>Emmonak St. Mary's<br>Fort Yukon Tok |

Information courtesy of the Alaska Court System.

# APPENDIX I: POPULATION OVERVIEW

## ALASKA'S POPULATION

Population estimates used in this report are provided by the Alaska Department of Labor, Research and Analysis Section, Demographics Unit. In March 1998, the Department of Labor revised population estimates back to 1991. Changes in estimates affect rates which are based on population. Revised estimates for 1991 through 1995 are also included in this appendix.

TABLE I.1 ESTIMATED POPULATION OF ALASKA BY AGE, SEX AND RACE, JULY 1998

| AGE GROUP | ALASKA  |         |         | WHITE   |         |         | NATIVE  |        |        |
|-----------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
|           | TOTAL   | MALE    | FEMALE  | TOTAL   | MALE    | FEMALE  | TOTAL   | MALE   | FEMALE |
| 0-4       | 51,876  | 26,467  | 25,409  | 35,066  | 17,856  | 17,210  | 11,554  | 5,941  | 5,613  |
| 5-9       | 56,847  | 29,124  | 27,723  | 37,892  | 19,529  | 18,363  | 13,301  | 6,760  | 6,541  |
| 10-14     | 54,905  | 28,149  | 26,756  | 38,205  | 19,660  | 18,545  | 11,865  | 6,070  | 5,795  |
| 15-19     | 47,633  | 24,867  | 22,766  | 33,292  | 17,369  | 15,923  | 9,899   | 5,075  | 4,824  |
| 20-24     | 34,181  | 17,242  | 16,939  | 21,921  | 10,611  | 11,310  | 7,634   | 3,947  | 3,687  |
| 25-29     | 39,380  | 21,243  | 18,137  | 26,679  | 14,077  | 12,602  | 6,605   | 3,451  | 3,154  |
| 30-34     | 49,064  | 26,309  | 22,755  | 36,351  | 19,646  | 16,705  | 7,404   | 3,839  | 3,565  |
| 35-39     | 59,803  | 31,144  | 28,659  | 47,221  | 25,008  | 22,213  | 7,656   | 3,655  | 4,001  |
| 40-44     | 60,515  | 31,213  | 29,302  | 48,519  | 25,408  | 23,111  | 7,123   | 3,431  | 3,692  |
| 45-49     | 52,315  | 27,939  | 24,376  | 42,856  | 23,165  | 19,691  | 5,613   | 2,834  | 2,779  |
| 50-54     | 37,298  | 20,288  | 17,010  | 31,103  | 17,293  | 13,810  | 3,819   | 1,792  | 2,027  |
| 55-59     | 24,904  | 13,348  | 11,556  | 20,417  | 11,256  | 9,161   | 3,001   | 1,372  | 1,629  |
| 60-64     | 16,073  | 8,555   | 7,518   | 12,391  | 6,874   | 5,517   | 2,553   | 1,235  | 1,318  |
| 65-69     | 11,808  | 5,951   | 5,857   | 8,875   | 4,683   | 4,192   | 1,961   | 900    | 1,061  |
| 70-74     | 9,113   | 4,453   | 4,660   | 6,950   | 3,518   | 3,432   | 1,364   | 613    | 751    |
| 75-79     | 6,202   | 2,822   | 3,380   | 4,669   | 2,227   | 2,442   | 999     | 410    | 589    |
| 80-84     | 3,238   | 1,347   | 1,891   | 2,544   | 1,098   | 1,446   | 531     | 189    | 342    |
| 85+       | 1,927   | 723     | 1,204   | 1,320   | 459     | 861     | 479     | 188    | 291    |
| TOTAL     | 617,082 | 321,184 | 295,898 | 456,271 | 239,737 | 216,534 | 103,361 | 51,702 | 51,659 |

TABLE I.2 ESTIMATED POPULATION OF ALASKA BY AGE, SEX AND RACE, JULY 1997

| AGE GROUP | ALASKA  |         |         | WHITE   |         |         | NATIVE  |        |        |
|-----------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
|           | TOTAL   | MALE    | FEMALE  | TOTAL   | MALE    | MALE    | TOTAL   | MALE   | FEMALE |
| 0-4       | 51,970  | 26,478  | 25,492  | 34,904  | 17,698  | 17,206  | 11,764  | 6,061  | 5,703  |
| 5-9       | 57,185  | 29,242  | 27,943  | 38,465  | 19,808  | 18,657  | 13,270  | 6,709  | 6,561  |
| 10-14     | 54,375  | 27,884  | 26,491  | 38,071  | 19,590  | 18,481  | 11,586  | 5,921  | 5,665  |
| 15-19     | 45,790  | 23,913  | 21,877  | 32,235  | 16,798  | 15,437  | 9,355   | 4,814  | 4,541  |
| 20-24     | 33,330  | 16,807  | 16,523  | 21,449  | 10,394  | 11,055  | 7,459   | 3,853  | 3,606  |
| 25-29     | 41,078  | 22,457  | 18,621  | 28,507  | 15,335  | 13,172  | 6,489   | 3,391  | 3,098  |
| 30-34     | 51,509  | 27,399  | 24,110  | 38,630  | 20,738  | 17,892  | 7,793   | 4,017  | 3,776  |
| 35-39     | 60,363  | 31,247  | 29,116  | 47,915  | 25,223  | 22,692  | 7,598   | 3,575  | 4,023  |
| 40-44     | 59,804  | 31,002  | 28,802  | 48,178  | 25,311  | 22,867  | 6,917   | 3,388  | 3,529  |
| 45-49     | 49,967  | 26,803  | 23,164  | 41,153  | 22,347  | 18,806  | 5,262   | 2,653  | 2,609  |
| 50-54     | 35,215  | 19,121  | 16,094  | 29,453  | 16,369  | 13,084  | 3,630   | 1,689  | 1,941  |
| 55-59     | 22,684  | 12,195  | 10,489  | 18,400  | 10,150  | 8,250   | 2,923   | 1,377  | 1,546  |
| 60-64     | 15,351  | 8,128   | 7,223   | 11,727  | 6,498   | 5,229   | 2,541   | 1,221  | 1,320  |
| 65-69     | 11,583  | 5,821   | 5,762   | 8,788   | 4,597   | 4,191   | 1,875   | 860    | 1,015  |
| 70-74     | 8,814   | 4,301   | 4,513   | 6,651   | 3,361   | 3,290   | 1,395   | 638    | 757    |
| 75-79     | 5,797   | 2,641   | 3,156   | 4,445   | 2,126   | 2,319   | 905     | 359    | 546    |
| 80-84     | 3,004   | 1,239   | 1,765   | 2,311   | 986     | 1,325   | 537     | 192    | 345    |
| 85+       | 1,836   | 680     | 1,156   | 1,265   | 421     | 844     | 452     | 187    | 265    |
| TOTAL     | 609,655 | 317,358 | 292,297 | 452,547 | 237,750 | 214,797 | 101,751 | 50,905 | 50,846 |

TABLE I.3 ESTIMATED POPULATION OF ALASKA BY AGE, SEX AND RACE, JULY 1996

| AGE GROUP | ALASKA  |         |         | WHITE   |         |         | NATIVE |        |        |
|-----------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
|           | TOTAL   | MALE    | FEMALE  | TOTAL   | MALE    | MALE    | TOTAL  | MALE   | FEMALE |
| 0-4       | 52,568  | 26,699  | 25,869  | 35,064  | 17,756  | 17,308  | 12,145 | 6,193  | 5,952  |
| 5-9       | 56,717  | 29,049  | 27,668  | 38,585  | 19,891  | 18,694  | 12,859 | 6,534  | 6,325  |
| 10-14     | 53,252  | 27,318  | 25,934  | 37,500  | 19,272  | 18,228  | 11,117 | 5,682  | 5,435  |
| 15-19     | 44,503  | 23,231  | 21,272  | 31,551  | 16,441  | 15,110  | 8,933  | 4,597  | 4,336  |
| 20-24     | 32,666  | 16,655  | 16,011  | 21,009  | 10,327  | 10,682  | 7,225  | 3,734  | 3,491  |
| 25-29     | 43,599  | 24,056  | 19,543  | 30,951  | 16,960  | 13,991  | 6,579  | 3,413  | 3,166  |
| 30-34     | 53,827  | 28,496  | 25,331  | 40,959  | 21,890  | 19,069  | 7,866  | 4,028  | 3,838  |
| 35-39     | 61,471  | 31,750  | 29,721  | 48,999  | 25,734  | 23,265  | 7,583  | 3,548  | 4,035  |
| 40-44     | 59,095  | 30,810  | 28,285  | 47,962  | 25,275  | 22,687  | 6,613  | 3,286  | 3,327  |
| 45-49     | 49,229  | 26,658  | 22,571  | 40,931  | 22,482  | 18,449  | 4,973  | 2,505  | 2,468  |
| 50-54     | 31,988  | 17,286  | 14,702  | 26,663  | 14,740  | 11,923  | 3,454  | 1,618  | 1,836  |
| 55-59     | 21,352  | 11,586  | 9,766   | 17,211  | 9,580   | 7,631   | 2,833  | 1,370  | 1,463  |
| 60-64     | 14,695  | 7,688   | 7,007   | 11,195  | 6,126   | 5,069   | 2,470  | 1,174  | 1,296  |
| 65-69     | 11,610  | 5,915   | 5,695   | 8,927   | 4,733   | 4,194   | 1,807  | 822    | 985    |
| 70-74     | 8,588   | 4,140   | 4,448   | 6,472   | 3,203   | 3,269   | 1,387  | 650    | 737    |
| 75-79     | 5,442   | 2,463   | 2,979   | 4,192   | 1,991   | 2,201   | 859    | 337    | 522    |
| 80-84     | 2,820   | 1,180   | 1,640   | 2,128   | 910     | 1,218   | 542    | 208    | 334    |
| 85+       | 1,790   | 641     | 1,149   | 1,250   | 399     | 851     | 433    | 179    | 254    |
| TOTAL     | 605,212 | 315,621 | 289,591 | 451,549 | 237,710 | 213,839 | 99,678 | 49,878 | 49,800 |

TABLE I.4 ESTIMATED POPULATION OF ALASKA BY AGE, SEX AND RACE, JULY 1995

| AGE GROUP | ALASKA  |         |         | WHITE   |         |         | NATIVE |        |        |
|-----------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
|           | TOTAL   | MALE    | FEMALE  | TOTAL   | MALE    | MALE    | TOTAL  | MALE   | FEMALE |
| 0-4       | 54,514  | 27,756  | 26,758  | 36,495  | 18,597  | 17,898  | 12,600 | 6,381  | 6,219  |
| 5-9       | 56,937  | 29,224  | 27,713  | 39,389  | 20,373  | 19,016  | 12,455 | 6,337  | 6,118  |
| 10-14     | 52,908  | 27,251  | 25,657  | 37,673  | 19,447  | 18,226  | 10,701 | 5,453  | 5,248  |
| 15-19     | 42,595  | 22,253  | 20,342  | 30,292  | 15,811  | 14,481  | 8,539  | 4,399  | 4,140  |
| 20-24     | 32,806  | 17,037  | 15,769  | 21,222  | 10,688  | 10,534  | 7,098  | 3,664  | 3,434  |
| 25-29     | 45,104  | 24,832  | 20,272  | 32,392  | 17,825  | 14,567  | 6,874  | 3,539  | 3,335  |
| 30-34     | 56,678  | 29,850  | 26,828  | 43,802  | 23,293  | 20,509  | 7,906  | 4,011  | 3,895  |
| 35-39     | 61,866  | 31,921  | 29,945  | 49,527  | 25,958  | 23,569  | 7,461  | 3,504  | 3,957  |
| 40-44     | 57,955  | 30,460  | 27,495  | 47,310  | 25,094  | 22,216  | 6,381  | 3,214  | 3,167  |
| 45-49     | 46,133  | 25,061  | 21,072  | 38,526  | 21,268  | 17,258  | 4,627  | 2,311  | 2,316  |
| 50-54     | 30,368  | 16,436  | 13,932  | 25,239  | 13,956  | 11,283  | 3,400  | 1,613  | 1,787  |
| 55-59     | 20,108  | 10,973  | 9,135   | 16,112  | 9,047   | 7,065   | 2,758  | 1,345  | 1,413  |
| 60-64     | 14,330  | 7,417   | 6,913   | 10,932  | 5,881   | 5,051   | 2,420  | 1,163  | 1,257  |
| 65-69     | 11,419  | 5,825   | 5,594   | 8,861   | 4,688   | 4,173   | 1,728  | 789    | 939    |
| 70-74     | 8,382   | 4,007   | 4,375   | 6,343   | 3,118   | 3,225   | 1,350  | 622    | 728    |
| 75-79     | 5,004   | 2,259   | 2,745   | 3,850   | 1,806   | 2,044   | 813    | 328    | 485    |
| 80-84     | 2,774   | 1,160   | 1,614   | 2,083   | 876     | 1,207   | 550    | 215    | 335    |
| 85+       | 1,700   | 592     | 1,108   | 1,197   | 373     | 824     | 397    | 159    | 238    |
| TOTAL     | 601,581 | 314,314 | 287,267 | 451,245 | 238,099 | 213,146 | 98,058 | 49,047 | 49,011 |

TABLE I.5 ESTIMATED POPULATION OF ALASKA BY AGE, SEX AND RACE, JULY 1994

| AGE GROUP | ALASKA  |         |         | WHITE   |         |         | NATIVE |        |        |
|-----------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
|           | TOTAL   | MALE    | FEMALE  | TOTAL   | MALE    | MALE    | TOTAL  | MALE   | FEMALE |
| 0-4       | 56,874  | 28,997  | 27,877  | 38,165  | 19,539  | 18,626  | 13,105 | 6,605  | 6,500  |
| 5-9       | 56,547  | 28,978  | 27,569  | 39,671  | 20,449  | 19,222  | 11,950 | 6,099  | 5,851  |
| 10-14     | 52,217  | 27,002  | 25,215  | 37,421  | 19,395  | 18,026  | 10,275 | 5,216  | 5,059  |
| 15-19     | 40,906  | 21,308  | 19,598  | 29,199  | 15,184  | 14,015  | 8,123  | 4,205  | 3,918  |
| 20-24     | 35,222  | 18,669  | 16,553  | 23,542  | 12,210  | 11,332  | 6,904  | 3,525  | 3,379  |
| 25-29     | 47,265  | 25,586  | 21,679  | 34,393  | 18,606  | 15,787  | 7,249  | 3,747  | 3,502  |
| 30-34     | 59,164  | 31,220  | 27,944  | 46,222  | 24,658  | 21,564  | 7,877  | 3,958  | 3,919  |
| 35-39     | 62,492  | 32,159  | 30,333  | 50,264  | 26,232  | 24,032  | 7,312  | 3,472  | 3,840  |
| 40-44     | 56,537  | 30,064  | 26,473  | 46,387  | 24,909  | 21,478  | 6,086  | 3,080  | 3,006  |
| 45-49     | 43,001  | 23,425  | 19,576  | 36,056  | 19,976  | 16,080  | 4,294  | 2,140  | 2,154  |
| 50-54     | 29,198  | 15,865  | 13,333  | 24,283  | 13,483  | 10,800  | 3,284  | 1,563  | 1,721  |
| 55-59     | 19,254  | 10,510  | 8,744   | 15,341  | 8,619   | 6,722   | 2,730  | 1,348  | 1,382  |
| 60-64     | 13,920  | 7,199   | 6,721   | 10,632  | 5,705   | 4,927   | 2,351  | 1,128  | 1,223  |
| 65-69     | 11,064  | 5,653   | 5,411   | 8,652   | 4,570   | 4,082   | 1,640  | 751    | 889    |
| 70-74     | 8,108   | 3,894   | 4,214   | 6,162   | 3,042   | 3,120   | 1,297  | 600    | 697    |
| 75-79     | 4,603   | 2,056   | 2,547   | 3,514   | 1,619   | 1,895   | 793    | 327    | 466    |
| 80-84     | 2,688   | 1,140   | 1,548   | 2,001   | 860     | 1,141   | 551    | 209    | 342    |
| 85+       | 1,562   | 538     | 1,024   | 1,110   | 338     | 772     | 361    | 151    | 210    |
| TOTAL     | 600,622 | 314,263 | 286,359 | 453,015 | 239,394 | 213,621 | 96,182 | 48,124 | 48,058 |

TABLE I.6 ESTIMATED POPULATION OF ALASKA BY AGE, SEX AND RACE, JULY 1993

| AGE GROUP | ALASKA  |         |         | WHITE   |         |         | NATIVE |        |        |
|-----------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
|           | TOTAL   | MALE    | FEMALE  | TOTAL   | MALE    | MALE    | TOTAL  | MALE   | FEMALE |
| 0-4       | 58,200  | 29,782  | 28,418  | 39,351  | 20,227  | 19,124  | 13,249 | 6,701  | 6,548  |
| 5-9       | 55,654  | 28,521  | 27,133  | 39,344  | 20,278  | 19,066  | 11,586 | 5,904  | 5,682  |
| 10-14     | 51,054  | 26,492  | 24,562  | 36,914  | 19,159  | 17,755  | 9,772  | 4,983  | 4,789  |
| 15-19     | 39,408  | 20,481  | 18,927  | 28,200  | 14,688  | 13,512  | 7,815  | 4,019  | 3,796  |
| 20-24     | 38,151  | 20,791  | 17,360  | 26,504  | 14,312  | 12,192  | 6,715  | 3,420  | 3,295  |
| 25-29     | 49,428  | 26,616  | 22,812  | 36,410  | 19,661  | 16,749  | 7,678  | 3,964  | 3,714  |
| 30-34     | 60,741  | 31,900  | 28,841  | 47,875  | 25,465  | 22,410  | 7,776  | 3,847  | 3,929  |
| 35-39     | 62,539  | 32,362  | 30,177  | 50,577  | 26,484  | 24,093  | 7,129  | 3,454  | 3,675  |
| 40-44     | 54,874  | 29,485  | 25,389  | 45,239  | 24,575  | 20,664  | 5,792  | 2,947  | 2,845  |
| 45-49     | 40,105  | 21,879  | 18,226  | 33,677  | 18,706  | 14,971  | 4,043  | 2,000  | 2,043  |
| 50-54     | 27,654  | 15,051  | 12,603  | 22,974  | 12,787  | 10,187  | 3,143  | 1,497  | 1,646  |
| 55-59     | 18,532  | 10,058  | 8,474   | 14,657  | 8,191   | 6,466   | 2,743  | 1,358  | 1,385  |
| 60-64     | 13,761  | 7,206   | 6,555   | 10,625  | 5,763   | 4,862   | 2,225  | 1,074  | 1,151  |
| 65-69     | 10,776  | 5,470   | 5,306   | 8,393   | 4,377   | 4,016   | 1,627  | 765    | 862    |
| 70-74     | 7,668   | 3,667   | 4,001   | 5,875   | 2,900   | 2,975   | 1,211  | 543    | 668    |
| 75-79     | 4,384   | 1,963   | 2,421   | 3,330   | 1,525   | 1,805   | 797    | 333    | 464    |
| 80-84     | 2,484   | 1,053   | 1,431   | 1,817   | 776     | 1,041   | 539    | 212    | 327    |
| 85+       | 1,493   | 534     | 959     | 1,074   | 335     | 739     | 336    | 152    | 184    |
| TOTAL     | 596,906 | 313,311 | 283,595 | 452,836 | 240,209 | 212,627 | 94,176 | 47,173 | 47,003 |

TABLE I.7 ESTIMATED POPULATION OF ALASKA BY AGE, SEX AND RACE, JULY 1992

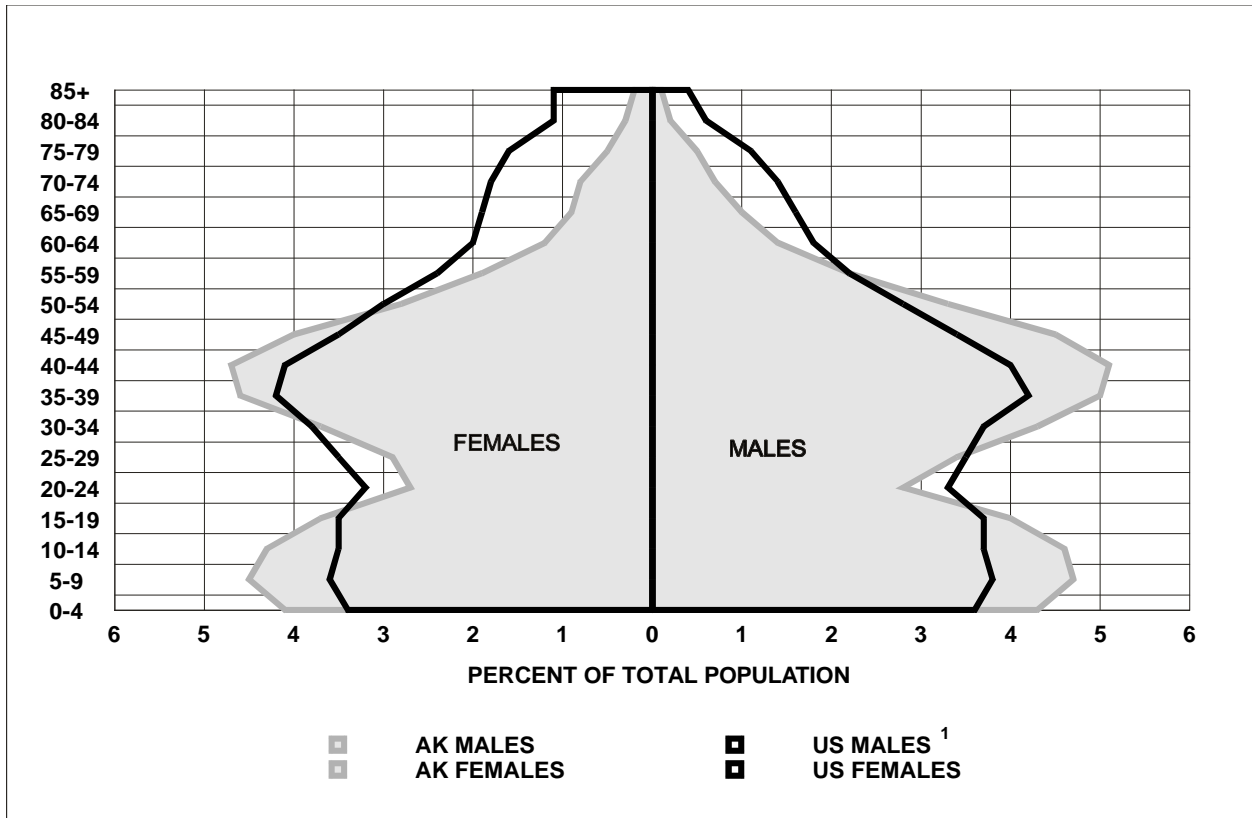
| AGE GROUP | ALASKA  |         |         | WHITE   |         |         | NATIVE |        |        |
|-----------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
|           | TOTAL   | MALE    | FEMALE  | TOTAL   | MALE    | MALE    | TOTAL  | MALE   | FEMALE |
| 0-4       | 57,959  | 29,677  | 28,282  | 39,461  | 20,348  | 19,113  | 13,159 | 6,615  | 6,544  |
| 5-9       | 54,904  | 28,119  | 26,785  | 39,106  | 20,131  | 18,975  | 11,258 | 5,730  | 5,528  |
| 10-14     | 48,765  | 25,345  | 23,420  | 35,485  | 18,445  | 17,040  | 9,188  | 4,698  | 4,490  |
| 15-19     | 38,548  | 20,059  | 18,489  | 27,775  | 14,513  | 13,262  | 7,598  | 3,906  | 3,692  |
| 20-24     | 40,118  | 22,417  | 17,701  | 28,741  | 16,069  | 12,672  | 6,562  | 3,345  | 3,217  |
| 25-29     | 51,435  | 27,694  | 23,741  | 38,316  | 20,779  | 17,537  | 8,064  | 4,153  | 3,911  |
| 30-34     | 60,863  | 31,875  | 28,988  | 48,244  | 25,612  | 22,632  | 7,659  | 3,744  | 3,915  |
| 35-39     | 61,835  | 32,289  | 29,546  | 50,314  | 26,573  | 23,741  | 6,892  | 3,392  | 3,500  |
| 40-44     | 52,544  | 28,480  | 24,064  | 43,613  | 23,927  | 19,686  | 5,407  | 2,745  | 2,662  |
| 45-49     | 37,591  | 20,469  | 17,122  | 31,602  | 17,547  | 14,055  | 3,848  | 1,897  | 1,951  |
| 50-54     | 25,460  | 13,948  | 11,512  | 20,985  | 11,734  | 9,251   | 3,054  | 1,494  | 1,560  |
| 55-59     | 17,887  | 9,644   | 8,243   | 14,080  | 7,836   | 6,244   | 2,718  | 1,339  | 1,379  |
| 60-64     | 13,589  | 7,150   | 6,439   | 10,592  | 5,748   | 4,844   | 2,130  | 1,032  | 1,098  |
| 65-69     | 10,416  | 5,232   | 5,184   | 8,052   | 4,135   | 3,917   | 1,645  | 793    | 852    |
| 70-74     | 7,092   | 3,407   | 3,685   | 5,477   | 2,718   | 2,759   | 1,112  | 487    | 625    |
| 75-79     | 4,061   | 1,835   | 2,226   | 3,031   | 1,409   | 1,622   | 798    | 332    | 466    |
| 80-84     | 2,282   | 933     | 1,349   | 1,672   | 674     | 998     | 507    | 202    | 305    |
| 85+       | 1,373   | 506     | 867     | 956     | 308     | 648     | 334    | 152    | 182    |
| TOTAL     | 586,722 | 309,079 | 277,643 | 447,502 | 238,506 | 208,996 | 91,933 | 46,056 | 45,877 |

TABLE I.8 ESTIMATED POPULATION OF ALASKA BY AGE, SEX AND RACE, JULY 1991

| AGE GROUP | ALASKA  |         |         | WHITE   |         |         | NATIVE |        |        |
|-----------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
|           | TOTAL   | MALE    | FEMALE  | TOTAL   | MALE    | MALE    | TOTAL  | MALE   | FEMALE |
| 0-4       | 56,719  | 29,074  | 27,645  | 38,970  | 20,105  | 18,865  | 12,706 | 6,417  | 6,289  |
| 5-9       | 53,263  | 27,321  | 25,942  | 38,145  | 19,656  | 18,489  | 10,768 | 5,478  | 5,290  |
| 10-14     | 46,203  | 24,024  | 22,179  | 33,620  | 17,505  | 16,115  | 8,746  | 4,470  | 4,276  |
| 15-19     | 36,932  | 19,271  | 17,661  | 26,527  | 13,895  | 12,632  | 7,367  | 3,795  | 3,572  |
| 20-24     | 40,965  | 22,879  | 18,086  | 29,682  | 16,650  | 13,032  | 6,660  | 3,380  | 3,280  |
| 25-29     | 52,247  | 27,833  | 24,414  | 39,302  | 21,079  | 18,223  | 8,119  | 4,155  | 3,964  |
| 30-34     | 60,549  | 31,466  | 29,083  | 48,017  | 25,272  | 22,745  | 7,635  | 3,721  | 3,914  |
| 35-39     | 59,991  | 31,515  | 28,476  | 49,029  | 26,000  | 23,029  | 6,585  | 3,293  | 3,292  |
| 40-44     | 50,344  | 27,385  | 22,959  | 41,980  | 23,142  | 18,838  | 5,088  | 2,577  | 2,511  |
| 45-49     | 34,064  | 18,564  | 15,500  | 28,542  | 15,870  | 12,672  | 3,655  | 1,810  | 1,845  |
| 50-54     | 23,611  | 12,967  | 10,644  | 19,283  | 10,796  | 8,487   | 2,977  | 1,490  | 1,487  |
| 55-59     | 17,061  | 9,137   | 7,924   | 13,393  | 7,397   | 5,996   | 2,633  | 1,294  | 1,339  |
| 60-64     | 13,320  | 7,094   | 6,226   | 10,422  | 5,728   | 4,694   | 2,079  | 1,009  | 1,070  |
| 65-69     | 10,029  | 5,004   | 5,025   | 7,728   | 3,926   | 3,802   | 1,626  | 793    | 833    |
| 70-74     | 6,524   | 3,111   | 3,413   | 5,033   | 2,471   | 2,562   | 1,052  | 460    | 592    |
| 75-79     | 3,826   | 1,757   | 2,069   | 2,805   | 1,305   | 1,500   | 803    | 354    | 449    |
| 80-84     | 2,120   | 843     | 1,277   | 1,552   | 607     | 945     | 471    | 184    | 287    |
| 85+       | 1,286   | 486     | 800     | 896     | 304     | 592     | 316    | 140    | 176    |
| TOTAL     | 569,054 | 299,731 | 269,323 | 434,926 | 231,708 | 203,218 | 89,286 | 44,820 | 44,466 |

**POPULATION DISTRIBUTION IN ALASKA AND THE UNITED STATES**

CHART I.1 PERCENT DISTRIBUTION OF THE POPULATION BY AGE AND SEX, ALASKA AND THE UNITED STATES, 1998<sup>1</sup>



<sup>1</sup> Day, Jennifer Cheeseman, *Population Projections of the United States by Age, Sex, Race, and Hispanic Origin: 1995 to 2050*, U.S. Bureau of the Census, Current Population Reports, P25-1130, U.S. Government Printing Office, Washington, DC, February, 1996, p.44 (Alaska State Library U.S. Government Publications, reference C3.186).



## APPENDIX J: OTHER DATA SOURCES

The most comprehensive source for data in the Department of Health and Social Services can be found from the department's web page at <http://www.hss.state.ak.us>. Other data sources within the department which provide reference material and indicators of public health trends are listed below.

### **Department of Health and Social Services**

#### **Division of Administrative Services**

##### **Facilities and Planning Section**

P.O. Box 110650

Juneau, AK 99811-0650

(907) 465-3015

- *Healthy Alaskans 2000* presents information, findings and recommendations in the areas of: health promotion, health protection, preventive services and surveillance and data systems (last printing 1992).
- *The Village Clinic Survey* presents information on the physical condition of over 200 small clinics in rural Alaska (last printing 1994).
- *Alaska Hospital Survey* reports on acute, specialized, and nursing homes throughout Alaska (last printing 1994).
- *The Department of Health and Social Services Database Directory* lists each database managed within the Department (last printing 1995).

### **Department of Health and Social Services**

#### **Division of Family and Youth Services**

P.O. Box 110630

Juneau, AK 99811-0630

(907) 465-3170

dfys@health.state.ak.us

- Annual Report

### **Department of Health and Social Services**

#### **Division of Medical Assistance**

P.O. Box 110660

Juneau, AK 99811-0660

(907) 465-3355

- Medical Assistance in Alaska
- Annual Report

### **Department of Health and Social Services**

#### **Division of Mental Health and Developmental Disabilities**

P.O. Box 110620

Juneau, AK 99811-0620

(907) 465-3370

- Annual Report

### **Department of Health and Social Services**

**Division of Public Assistance**

P.O. Box 110640  
Juneau, AK 99811-0640  
(907) 465-3347

- Welfare Reform Briefing Papers
- Welfare Reform Status Report
- Welfare Reform Report Card

**Department of Health and Social Services****Division of Public Health****Community Health and Emergency Medical Services**

P.O. Box 110616  
Juneau, AK 99811-0616  
(907) 465-3027

- Alaska Trauma Registry
- Behavioral Risk Factor Surveillance System

**Department of Health and Social Services****Division of Public Health****Epidemiology Section**

P.O. Box 240249  
Anchorage, AK 99524-0249  
(907) 269-8000

- EPI Bulletin: published up to 40 times per year with statistics on reportable diseases

**Department of Health and Social Services****Division of Public Health****Maternal, Child and Family Health**

1231 Gambell Street  
Anchorage, AK 99501-4267  
(907) 269-3400

- Five-Year Maternal and Child Health Needs Assessment
- Maternal Child Health Block Grant
- Adolescent Health Plan
- Family Health Data Line (bi-monthly)
- Family Health Shareline (quarterly)

**Department of Health and Social Services****Division of Public Health****Medicaid Services Unit**

P.O. Box 110611  
Juneau, AK 99811-0611  
(907) 465-2845

- Information on the Healthy Babies program which provides prenatal medical care, and the Healthy Kids program which provides comprehensive child health services through outreach, screening, referral and follow-up