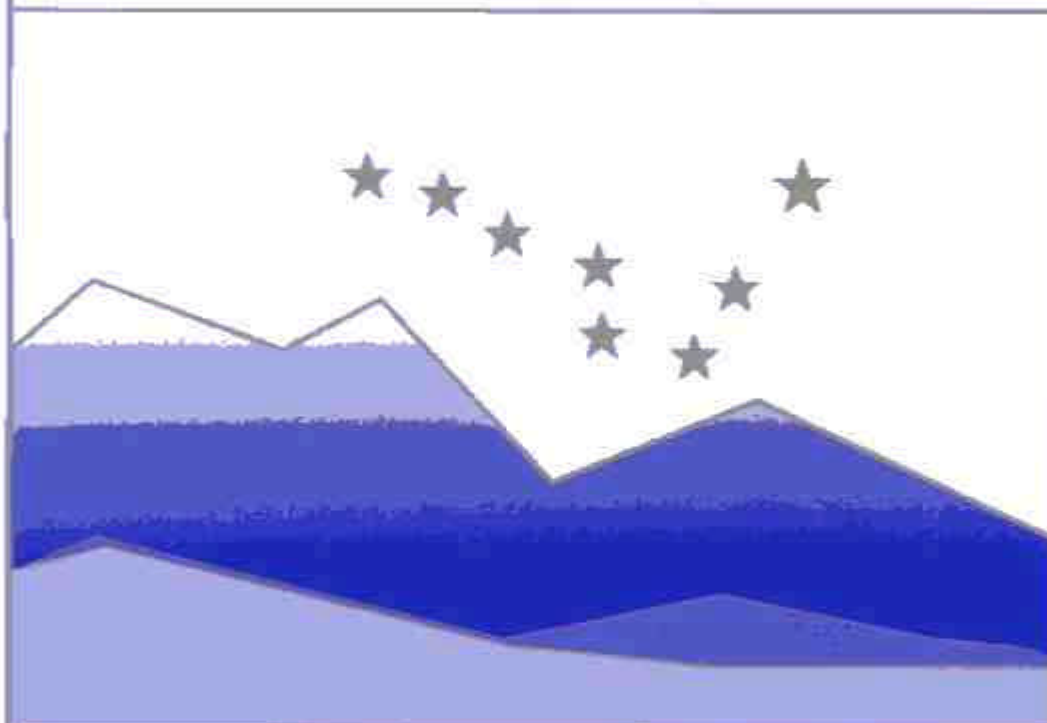


ALASKA

BUREAU OF VITAL STATISTICS



1998 ANNUAL REPORT

TONY KNOWLES
Governor

STATE OF ALASKA



KAREN PERDUE
Commissioner

**DEPT. OF HEALTH &
SOCIAL SERVICES**

TABLE OF CONTENTS

PREFACE	1
PURPOSE OF THIS REPORT	1
HOW THIS REPORT IS ORGANIZED	1
HOW TO OBTAIN A COPY	2
ADDITIONAL INFORMATION	2
ACKNOWLEDGMENTS	2
EXECUTIVE SUMMARY	3
SUMMARY OF POPULATION AND VITAL STATISTICS INFORMATION.	3
INTRODUCTION	5
ABOUT ALASKA	5
HOW VITAL STATISTICS ARE COLLECTED	5
POPULATION ESTIMATES	6
HOW CERTIFICATES ARE PROCESSED	7
HOW THIS REPORT WAS PREPARED	7
DETERMINATION OF RACE	7
BIRTH	9
INTRODUCTION	9
BIRTHS BY RESIDENCE AND OCCURRENCE	11
BIRTHS BY AGE AND RACE	17
MOTHER'S MARITAL STATUS	27
AGES OF MOTHERS AND FATHERS	31
PRENATAL CARE	32
BIRTHS BY FACILITY, METHOD, AND ATTENDANT	34
GESTATION	40
BIRTH WEIGHT	41
LOW BIRTH WEIGHT PERCENTAGES	43
OTHER DEMOGRAPHIC COMPARISONS.	46
FETAL & INFANT DEATHS	53
FETAL DEATHS	53
INFANT DEATHS	55
CHILDHOOD DEATHS	63
ADOPTION	67
MARRIAGE AND DIVORCE	75
MARRIAGES	75
DIVORCES	78
DEATH	81
CRUDE DEATH RATES.	82
DEATHS BY RACE AND SEX.	83
DEATHS BY AGE	86
AGE-ADJUSTED DEATH RATES.	89
EXPECTATION OF LIFE	91

YEARS OF LIFE LOST	91
CAUSES OF DEATH IN ALASKA	92
SPECIFIC DEATH RATES BY CAUSE OF DEATH	100
EXTERNAL CAUSE OF DEATH TABLES	114
REFERENCES.	123
APPENDIX A: DEFINITION OF TERMS	125
APPENDIX B: TECHNICAL NOTES	129
HOW TO USE VITAL STATISTICS	129
VITAL STATISTICS FORMULAS	130
APPENDIX C: ICD9 CODES	133
GENERAL MORTALITY	133
E-CODES (ACCIDENTS, SUICIDES AND HOMICIDES)	136
INFANT MORTALITY	137
APPENDIX D: PRENATAL CARE	139
APPENDIX E: DETERMINATION OF CHILD'S RACE	141
NCHS STANDARDS	141
STATISTICAL CALCULATIONS	141
APPENDIX F: YEAR 2000 HEALTH OBJECTIVES	143
APPENDIX G: SAMPLE CERTIFICATES.	145
CERTIFICATE OF LIVE BIRTH	145
CERTIFICATE OF LIVE BIRTH (continued)	146
CERTIFICATE OF FETAL DEATH.	147
CERTIFICATE OF FETAL DEATH (continued)	148
REPORT OF ADOPTION	149
CERTIFICATE OF MARRIAGE	150
CERTIFICATE OF DIVORCE, DISSOLUTION OF MARRIAGE, OR ANNULMENT.	151
CERTIFICATE OF DEATH.	152
CERTIFICATE OF PRESUMPTIVE DEATH.	153
APPENDIX H: GEOGRAPHIC INFORMATION.	155
APPENDIX I: POPULATION OVERVIEW.	167
ALASKA'S POPULATION	167
POPULATION DISTRIBUTION IN ALASKA AND THE UNITED STATES.	172
APPENDIX J: OTHER DATA SOURCES	173

LIST OF TABLES

TABLE 1.1A	BIRTH OCCURRENCES, RESIDENT BIRTHS, ESTIMATED POPULATIONS, RESIDENT CRUDE BIRTH RATES, FEMALE POPULATION AGES 15-44, AND FERTILITY RATES BY CENSUS AREA, ALASKA, 1998	12
TABLE 1.1B	BIRTH OCCURRENCES AND RESIDENT BIRTHS BY NATIVE REGIONAL CORPORATION AREA, ALASKA, 1998	13
TABLE 1.2A	BIRTHS BY CENSUS AREA OF MOTHER'S RESIDENCE AND BY CENSUS AREA OF OCCURRENCE, ALASKA, 1998	15
TABLE 1.2B	BIRTHS BY NATIVE REGIONAL CORPORATION OF MOTHER'S RESIDENCE AND BY NATIVE REGIONAL CORPORATION OF OCCURRENCE, ALASKA, 1998 (ALASKA RESIDENTS ONLY)	17
TABLE 1.3A	RESIDENT BIRTHS AND PERCENTAGE BY AGE OF MOTHER, ALASKA, 1980, 1990, and 1998	17
TABLE 1.3B	RESIDENT BIRTHS AND PERCENTAGE BY AGE AND RACE FOR ALL MOTHERS AND FIRST-TIME MOTHERS, ALASKA, 1998	19
TABLE 1.3C	COMPARISON OF AGE-SPECIFIC BIRTH RATES BY THE MOTHER'S RACE, ALASKA AND THE UNITED STATES, 1993, 1997, 1998	20
TABLE 1.3D	RACE-SPECIFIC BIRTH RATES, FERTILITY RATES, AND TEEN BIRTH RATES, ALASKA, 1998	21
TABLE 1.4	PERCENTAGE OF RESIDENT BIRTHS BY AGE AND RACE OF MOTHER AND BY BIRTH WEIGHT OF CHILD, ALASKA, 1998	23
TABLE 1.5A	RESIDENT BIRTHS TO TEENAGE MOTHERS BY CENSUS AREA OF RESIDENCE, AGE AND MARITAL STATUS, ALASKA, 1998	24
TABLE 1.5B	RESIDENT BIRTHS TO TEENAGE MOTHERS BY NATIVE REGIONAL CORPORATION OF RESIDENCE, AGE AND MARITAL STATUS, ALASKA, 1998	24
TABLE 1.6A	RESIDENT BIRTHS BY MOTHER'S CENSUS AREA OF RESIDENCE, RACE, AND SEX OF CHILD, ALASKA, 1998	25
TABLE 1.6B	RESIDENT BIRTHS BY MOTHER'S NATIVE REGIONAL CORPORATION OF RESIDENCE, RACE, AND SEX OF CHILD, ALASKA, 1998	25
TABLE 1.7A	RESIDENT BIRTHS AND PERCENTAGE BY MOTHER'S AGE AND CENSUS AREA OF RESIDENCE, ALASKA, 1998	26
TABLE 1.7B	RESIDENT BIRTHS AND PERCENTAGE BY MOTHER'S AGE AND NATIVE REGIONAL CORPORATION OF RESIDENCE, ALASKA, 1998	26
TABLE 1.7C	RESIDENT BIRTHS AND PERCENTAGE BY MOTHER'S AGE AND RACE, ALASKA, 1998	27
TABLE 1.8	RESIDENT BIRTHS BY MOTHER'S AGE AND NUMBER OF LIVING CHILDREN, ALASKA, 1998	27
TABLE 1.9A	RESIDENT BIRTHS BY THE MOTHER'S CENSUS AREA OF RESIDENCE, MARITAL STATUS, AND EDUCATION, ALASKA, 1998	30
TABLE 1.9B	RESIDENT BIRTHS BY THE MOTHER'S NATIVE REGIONAL CORPORATION OF RESIDENCE, MARITAL STATUS, AND EDUCATION, ALASKA, 1998	30

LIST OF TABLES (continued)**Alaska Bureau of Vital Statistics**

TABLE 1.10	RESIDENT BIRTHS BY THE MOTHER'S RACE, MARITAL STATUS, AND EDUCATION, ALASKA, 1998	31
TABLE 1.11	RESIDENT BIRTHS BY THE MOTHER'S AGE, MARITAL STATUS, AND EDUCATION, ALASKA, 1998	31
TABLE 1.12	RESIDENT BIRTHS TO MARRIED MOTHERS BY THE MOTHER'S AGE AND FATHER'S AGE, ALASKA, 1998	32
TABLE 1.13	PRENATAL CARE BY MOTHER'S MARITAL STATUS, ALASKA, 1998	32
TABLE 1.14A	PRENATAL CARE BY CENSUS AREA OF MOTHER'S RESIDENCE, ALASKA, 1998	33
TABLE 1.14B	PRENATAL CARE BY NATIVE REGIONAL CORPORATION OF MOTHER'S RESIDENCE, ALASKA, 1998	33
TABLE 1.15A	PRENATAL CARE BY RACE OF MOTHER, ALASKA, 1998	34
TABLE 1.15B	PRENATAL CARE BY AGE OF MOTHER, ALASKA, 1998	34
TABLE 1.16A	RESIDENT BIRTHS BY BIRTH METHOD AND FACILITY, ALASKA, 1998	35
TABLE 1.16B	RESIDENT BIRTHS BY BIRTH ATTENDANT AND FACILITY, ALASKA, 1998	36
TABLE 1.17A	RESIDENT BIRTHS BY CENSUS AREA OF OCCURRENCE AND BIRTH FACILITY, ALASKA, 1998	37
TABLE 1.17B	RESIDENT BIRTHS BY NATIVE REGIONAL CORPORATION OF OCCURRENCE AND BIRTH FACILITY, ALASKA, 1998	37
TABLE 1.18	RESIDENT BIRTHS BY MOTHER'S RACE AND BIRTH FACILITY, ALASKA, 1998	38
TABLE 1.19	RESIDENT BIRTHS BY MOTHER'S EDUCATION AND BIRTH FACILITY, ALASKA, 1998	38
TABLE 1.20A	RESIDENT BIRTHS BY CENSUS AREA OF OCCURRENCE AND BY BIRTH ATTENDANT TYPE, ALASKA, 1998	39
TABLE 1.20B	RESIDENT BIRTHS BY NATIVE REGIONAL CORPORATION OF OCCURRENCE AND BY BIRTH ATTENDANT TYPE, ALASKA, 1998	39
TABLE 1.21	RESIDENT BIRTHS BY RACE OF MOTHER AND BY BIRTH ATTENDANT TYPE, ALASKA, 1998	40
TABLE 1.22A	PRE-TERM, TERM, AND POST-TERM BIRTHS AND PERCENTAGES FOR SINGLE BIRTHS BY MOTHER'S CENSUS AREA, ALASKA, 1994-1998	40
TABLE 1.22B	PRE-TERM, TERM, AND POST-TERM BIRTHS AND PERCENTAGES FOR SINGLE BIRTHS BY MOTHER'S NATIVE REGIONAL CORPORATION, ALASKA, 1994-1998	41
TABLE 1.22C	PRE-TERM, TERM, AND POST-TERM BIRTHS AND PERCENTAGES FOR SINGLE BIRTHS BY MOTHER'S RACE, ALASKA, 1994-1998	41
TABLE 1.22D	PRE-TERM, TERM, AND POST-TERM BIRTHS AND PERCENTAGES FOR SINGLE BIRTHS BY MOTHER'S AGE, ALASKA, 1994-1998	41
TABLE 1.23A	RESIDENT BIRTHS BY CENSUS AREA OF MOTHER'S RESIDENCE AND BY BIRTH WEIGHT OF CHILD, ALASKA, 1998	42
TABLE 1.23B	RESIDENT BIRTHS BY NATIVE REGIONAL CORPORATION OF MOTHER'S RESIDENCE AND BY BIRTH WEIGHT OF CHILD, ALASKA, 1998	43

TABLE 1.23C	RESIDENT BIRTHS BY RACE OF MOTHER AND BY BIRTH WEIGHT OF CHILD, ALASKA, 1998	43
TABLE 1.24A	BIRTH WEIGHTS AND PERCENTAGES BY MOTHER'S CENSUS AREA, ALASKA, 1994-1998	44
TABLE 1.24B	BIRTH WEIGHTS AND PERCENTAGES BY MOTHER'S NATIVE REGIONAL CORPORATION, ALASKA, 1994-1998	45
TABLE 1.24C	BIRTH WEIGHTS AND PERCENTAGES BY MOTHER'S RACE, ALASKA, 1994-1998	45
TABLE 1.24D	BIRTH WEIGHTS AND PERCENTAGES BY MOTHER'S AGE, ALASKA, 1994-1998	45
TABLE 2.1A	FETAL DEATHS BY CENSUS AREA OF MOTHER'S RESIDENCE, ALASKA, 1998	53
TABLE 2.1B	FETAL DEATHS BY NATIVE REGIONAL CORPORATION OF MOTHER'S RESIDENCE, ALASKA, 1998	54
TABLE 2.1C	FETAL DEATHS AND FETAL DEATH RATE BY MOTHER'S RACE, ALASKA, 1994-1998	54
TABLE 2.2	FETAL DEATHS BY AGE AND RACE OF MOTHER, ALASKA, 1998	54
TABLE 2.3	FETAL DEATHS BY LENGTH OF GESTATION AND WEIGHT, ALASKA, 1998	54
TABLE 2.4A	INFANT DEATHS BY CENSUS AREA OF DECEDENT'S RESIDENCE AND AGE, ALASKA, 1998 (DEATH COHORT METHOD)	58
TABLE 2.4B	INFANT DEATHS BY NATIVE REGIONAL CORPORATION OF DECEDENT'S RESIDENCE AND AGE, ALASKA, 1998 (DEATH COHORT METHOD)	58
TABLE 2.4C	INFANT DEATHS BY RACE, SEX, AND AGE OF DECEDENT, ALASKA, 1998 (DEATH COHORT METHOD)	59
TABLE 2.5A	INFANT DEATHS BY CENSUS AREA OF DECEDENT'S RESIDENCE AND AGE, ALASKA, BIRTH YEAR 1997 (BIRTH COHORT METHOD)	59
TABLE 2.5B	INFANT DEATHS BY NATIVE REGIONAL CORPORATION OF DECEDENT'S RESIDENCE AND AGE, ALASKA, BIRTH YEAR 1997 (BIRTH COHORT METHOD)	59
TABLE 2.5C	INFANT DEATHS BY RACE, SEX, AND AGE OF DECEDENT, ALASKA, BIRTH YEAR 1997 (BIRTH COHORT METHOD)	60
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	60
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	61
TABLE 2.7	INFANT DEATHS BY SELECTED CAUSES OF DEATH AND AGE, ALASKA, 1998 (DEATH COHORT METHOD)	62
TABLE 2.8	INFANT DEATHS BY SELECTED CAUSES OF DEATH AND RACE, ALASKA, 1998 (DEATH COHORT METHOD)	62
TABLE 3.1A	CHILDHOOD DEATHS BY CENSUS AREA OF RESIDENCE, ALASKA, 1998	63

LIST OF TABLES (continued)**Alaska Bureau of Vital Statistics**

TABLE 3.1B	CHILDHOOD DEATHS BY NATIVE REGIONAL CORPORATION OF RESIDENCE, ALASKA, 1998	64
TABLE 3.2A	CHILDHOOD DEATHS BY CENSUS AREA WHERE INJURY OR DEATH OCCURRED, ALASKA, 1998	64
TABLE 3.2B	CHILDHOOD DEATHS BY NATIVE REGIONAL CORPORATION WHERE INJURY OR DEATH OCCURRED, ALASKA, 1998	65
TABLE 3.2C	CHILDHOOD DEATHS BY CENSUS AREA WHERE INJURY OR DEATH OCCURRED AND MANNER OF DEATH, ALASKA, 1998	65
TABLE 3.3	CHILDHOOD DEATHS BY AGE, RACE, AND SEX, ALASKA, 1998	66
TABLE 3.4A	CHILDHOOD DEATHS BY MANNER OF DEATH AND AGE, ALASKA, 1998	66
TABLE 3.4B	CHILDHOOD DEATHS BY SELECTED CAUSE AND AGE, ALASKA, 1998	66
TABLE 4.1	ADOPTIONS BY TYPE, ALASKA, 1994-1998	67
TABLE 4.2A	ADOPTIONS BY CENSUS AREA WHERE DECREE WAS GRANTED AND BY AGE OF ADOPTEE, ALASKA, 1998	68
TABLE 4.2B	ADOPTIONS BY NATIVE REGIONAL CORPORATION WHERE DECREE WAS GRANTED AND BY AGE OF ADOPTEE, ALASKA, 1998	69
TABLE 4.2C	ADOPTIONS BY CENSUS AREA WHERE DECREE WAS GRANTED AND BY RACE OF ADOPTEE, ALASKA, 1998	69
TABLE 4.2D	ADOPTIONS BY NATIVE REGIONAL CORPORATION WHERE DECREE WAS GRANTED, AND BY RACE OF ADOPTEE, ALASKA, 1998	70
TABLE 4.3A	ADOPTIONS BY RACES OF PARENTS (WHEN ADOPTIVE PARENT IS MARRIED TO NATURAL PARENT) AND BY CHILD'S PLACE OF BIRTH, ALASKA, 1998	71
TABLE 5.1A	MARRIAGES AND CRUDE MARRIAGE RATES BY CENSUS AREA OF OCCURRENCE, ALASKA, 1998	76
TABLE 5.1B	MARRIAGES BY NATIVE REGIONAL CORPORATION OF OCCURRENCE, GROOM'S RESIDENCE, AND BRIDE'S RESIDENCE, ALASKA, 1998	77
TABLE 5.2	MARRIAGES BY CENSUS AREA OF BRIDE'S RESIDENCE, AND BY CENSUS AREA OF GROOM'S RESIDENCE, ALASKA, 1998	77
TABLE 5.2	CONTINUED	78
TABLE 5.3	MARRIAGES BY AGE OF GROOM AND AGE OF BRIDE, ALASKA, 1998	78
TABLE 5.4A	DIVORCES, DISSOLUTIONS AND ANNULMENTS BY JUDICIAL DISTRICT, ALASKA, 1998	79
TABLE 5.4B	DIVORCES BY NUMBER OF MARRIAGES FOR WIFE AND HUSBAND, ALASKA, 1998	79
TABLE 5.5	DIVORCES AND DIVORCE RATES FOR WOMEN AND MEN BY CENSUS AREA OF RESIDENCE, ALASKA, 1998	80
TABLE 5.6	DIVORCES INVOLVING CHILDREN UNDER THE AGE OF 18 YEARS BY JUDICIAL DISTRICT, ALASKA, 1998	80
TABLE 6.1A	RESIDENT DEATHS, ESTIMATED POPULATIONS, AND CRUDE DEATH RATES BY CENSUS AREA, AND PLACE OF DEATH BY CENSUS AREA, ALASKA, 1998	82
TABLE 6.1B	DEATHS BY NATIVE REGIONAL CORPORATION OF RESIDENCE AND BY PLACE OF DEATH, ALASKA, 1998	83

TABLE 6.2A	DEATHS BY THE DECEDENT'S CENSUS AREA OF RESIDENCE, RACE AND SEX, ALASKA, 1998	84
TABLE 6.2B	DEATHS BY THE DECEDENT'S NATIVE REGIONAL CORPORATION OF RESIDENCE, RACE AND SEX, ALASKA, 1998	85
TABLE 6.3A	DEATHS BY THE DECEDENT'S CENSUS AREA OF RESIDENCE AND AGE, ALASKA, 1998	86
TABLE 6.3B	DEATHS BY THE DECEDENT'S NATIVE REGIONAL CORPORATION OF RESIDENCE AND AGE, ALASKA, 1998	87
TABLE 6.4A	RACE-SPECIFIC DEATH RATES AND PERCENTAGES BY AGE GROUP, ALASKA, 1998	87
TABLE 6.4B	SEX-SPECIFIC DEATH RATES AND PERCENTAGES BY AGE GROUP, ALASKA, 1998	88
TABLE 6.5	RACE/SEX-SPECIFIC DEATH RATES AND PERCENTAGES BY AGE GROUP, ALASKA, 1998	88
TABLE 6.6	AGE-ADJUSTED DEATH RATES FOR CERTAIN POPULATIONS, ALASKA AND UNITED STATES, 1992-1998	90
TABLE 6.7A	COMPARISON OF AGE-ADJUSTED DEATH RATES FOR THE TEN LEADING CAUSES OF DEATH IN ALASKA, ALASKA AND THE UNITED STATES, 1998 (US RANKINGS IN PARENTHESES)	93
TABLE 6.7B	DEATHS, DEATH RATES AND PERCENTAGES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN THE U.S. AND ALASKA, 1998 (ALASKA RANK IN PARENTHESES)	94
TABLE 6.7C	RANK OF LEADING CAUSES OF DEATH IN ALASKA AND THE UNITED STATES, 1998	94
TABLE 6.7D	AGE-ADJUSTED DEATH RATES FOR THE TEN LEADING CAUSES OF DEATH IN ALASKA, 1994-1998, AND UNITED STATES, 1997-1998	97
TABLE 6.8A	ALASKA RESIDENT DEATHS, PERCENT, AND SEX-SPECIFIC DEATH RATES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN THE UNITED STATES, 1998	101
TABLE 6.8B	ALASKA RESIDENT DEATHS, PERCENT, AND RACE-SPECIFIC DEATH RATES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN THE UNITED STATES, 1998	101
TABLE 6.8C	ALASKA RESIDENT DEATHS, PERCENT, AND SEX-SPECIFIC DEATH RATES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN ALASKA, 1998	102
TABLE 6.8D	RESIDENT DEATHS, PERCENT, AND RACE-SPECIFIC DEATH RATES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN ALASKA, 1998	102
TABLE 6.9A	RESIDENT DEATHS, PERCENT, AND RACE/SEX-SPECIFIC DEATH RATES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN THE UNITED STATES, ALASKA, 1998	103
TABLE 6.9B	RESIDENT DEATHS, PERCENT, AND RACE/SEX-SPECIFIC DEATH RATES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN ALASKA, 1998	103

LIST OF TABLES (continued)**Alaska Bureau of Vital Statistics**

TABLE 6.10A	RESIDENT DEATHS, PERCENT, AND AGE-SPECIFIC DEATH RATES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN THE UNITED STATES, ALASKA, 1998	104
TABLE 6.10A	CONTINUED	104
TABLE 6.10B	RESIDENT DEATHS, PERCENT, AND AGE-SPECIFIC DEATH RATES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN ALASKA, 1998	105
TABLE 6.10B	CONTINUED	105
TABLE 6.11A	RESIDENT DEATHS BY SELECTED CAUSES OF DEATH AND BY CENSUS AREA OF DECEDENT'S RESIDENCE, NATIVES ONLY, ALASKA, 1998	106
TABLE 6.11A	CONTINUED	107
TABLE 6.11B	RESIDENT DEATHS BY SELECTED CAUSES OF DEATH AND BY CENSUS AREA OF DECEDENT'S RESIDENCE, NON-NATIVES ONLY, ALASKA, 1998	108
TABLE 6.11B	CONTINUED	109
TABLE 6.12	RESIDENT DEATHS BY DETAILED CAUSES OF DEATH AND BY CENSUS REA OF DECEDENT'S RESIDENCE, ALASKA, 1998	110
TABLE 6.12	CONTINUED	111
TABLE 6.13	RESIDENT DEATHS BY DETAILED CAUSES OF DEATH AND BY NATIVE REGIONAL CORPORATION OF DECEDENT'S RESIDENCE, ALASKA, 1998	112
TABLE 6.14	RESIDENT DEATHS BY DETAILED CAUSES OF DEATH, BY SEX AND RACE, ALASKA, 1998	113
TABLE 6.15	RESIDENT DEATHS BY DETAILED CAUSES OF DEATH AND AGE, ALASKA, 1998	114
TABLE 6.16A	EXTERNAL CAUSES OF DEATH BY CENSUS AREA AND RACE, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998	115
TABLE 6.16B	EXTERNAL CAUSES OF DEATH BY NATIVE REGIONAL CORPORATION OF RESIDENCE AND RACE, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998	116
TABLE 6.17A	EXTERNAL DEATHS BY THE CENSUS AREA WHERE DEATH OCCURRED, MANNER OF DEATH AND RACE, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998	117
TABLE 6.17B	EXTERNAL CAUSES OF DEATH BY NATIVE REGIONAL CORPORATION WHERE DEATH OCCURRED, MANNER OF DEATH AND RACE, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998	118
TABLE 6.18A	EXTERNAL CAUSES OF DEATH BY METHOD AND MANNER OF DEATH AND RACE, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998	119
TABLE 6.18B	EXTERNAL CAUSES OF DEATH BY METHOD AND MANNER OF DEATH AND SEX, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998	120
TABLE 6.19A	EXTERNAL CAUSES OF DEATH BY MANNER OF DEATH, AGE AND RACE, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998	120
TABLE 6.19B	EXTERNAL CAUSES OF DEATH BY MANNER OF DEATH, AGE AND SEX, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998	121

TABLE 6.20	EXTERNAL CAUSES OF DEATH BY MANNER AND METHOD OF DEATH AND AGE, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998	121
TABLE A.1	STANDARD MILLION POPULATION	127
TABLE B.1	EXPECTATION OF LIFE FOR ALL ALASKANS, 1993-1997	131
TABLE C.1	ICD-9 CAUSE OF DEATH CODES FOR GENERAL MORTALITY	133
TABLE C.1	(CONTINUED)	134
TABLE C.1	(CONTINUED)	135
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)	136
TABLE C.3	ICD-9 CAUSE OF DEATH CODES FOR INFANT MORTALITY	137
TABLE D.1	KESSNER INDEX	139
TABLE F.1	YEAR 2000 HEALTH OBJECTIVES	143
TABLE I.1	ESTIMATED POPULATION OF ALASKA BY AGE, SEX AND RACE, JULY 1998	167
TABLE I.2	ESTIMATED POPULATION OF ALASKA BY AGE, SEX AND RACE, JULY 1997	168
TABLE I.3	ESTIMATED POPULATION OF ALASKA BY AGE, SEX AND RACE, JULY 1996	168
TABLE I.4	ESTIMATED POPULATION OF ALASKA BY AGE, SEX AND RACE, JULY 1995	169
TABLE I.5	ESTIMATED POPULATION OF ALASKA BY AGE, SEX AND RACE, JULY 1994	169
TABLE I.6	ESTIMATED POPULATION OF ALASKA BY AGE, SEX AND RACE, JULY 1993	170
TABLE I.7	ESTIMATED POPULATION OF ALASKA BY AGE, SEX AND RACE, JULY 1992	170
TABLE I.8	ESTIMATED POPULATION OF ALASKA BY AGE, SEX AND RACE, JULY 1991	171

LIST OF CHARTS

CHART 1.1A	CRUDE BIRTH RATES, UNITED STATES AND ALASKA, 1980-1998	10
CHART 1.1B	FERTILITY RATES, UNITED STATES AND ALASKA, 1990-1998	11
CHART 1.2A	FERTILITY RATES WITH 95% CONFIDENCE INTERVALS BY CENSUS AREA, ALASKA, 1998	14
CHART 1.2B	TEEN BIRTH RATES WITH 95% CONFIDENCE INTERVALS BY CENSUS AREAS, ALASKA, 1996-1998	16
CHART 1.3	PERCENTAGE OF BIRTHS BY AGE OF MOTHER, ALASKA, 1980-1998	18
CHART 1.4	RACE-SPECIFIC FERTILITY RATES, ALASKA, 1994-1998	21
CHART 1.5	AGE-ADJUSTED BIRTH RATES BY RACE, ALASKA, 1994-1998	22
CHART 1.6	RACE-SPECIFIC BIRTH RATES FOR TEENS (AGES 15-19), ALASKA, 1994-1998	22
CHART 1.7A	CONTRASTS BETWEEN MARRIED AND UNMARRIED MOTHERS, 1994-1998	29
CHART 1.7B	CONTRASTS BETWEEN MARRIED AND UNMARRIED MOTHERS AGES 20 AND OLDER, 1994-1998	29
CHART 1.8	PERCENTAGE OF LOW BIRTH WEIGHT INFANTS FOR TEENS, UNMARRIED MOTHERS 20 AND OVER, AND MARRIED MOTHERS 20 AND OVER, ALASKA, 1990-1998	46
CHART 1.9	PERCENTAGE OF PRETERM INFANTS FOR TEENS, UNMARRIED MOTHERS 20 AND OVER, AND MARRIED MOTHERS 20 AND OVER, ALASKA, 1990-1998	47
CHART 1.10A	PERCENTAGE OF MOTHERS GAINING LESS THAN 25 POUNDS FOR TEENS, UNMARRIED MOTHERS 20 AND OVER, AND MARRIED MOTHERS 20 AND OVER, ALASKA, 1990-1998	48
CHART 1.10B	PERCENTAGE OF MOTHERS RECEIVING LESS THAN ADEQUATE PRENATAL CARE FOR TEENS, UNMARRIED MOTHERS 20 AND OVER, AND MARRIED MOTHERS 20 AND OVER, ALASKA, 1990-1998	49
CHART 1.10C	PERCENTAGE OF MOTHERS USING TOBACCO FOR TEENS, UNMARRIED MOTHERS 20 AND OVER, AND MARRIED MOTHERS 20 AND OVER, ALASKA, 1990-1998	50
CHART 1.10D	PERCENTAGE OF MOTHERS USING ALCOHOL FOR TEENS, UNMARRIED MOTHERS 20 AND OVER, AND MARRIED MOTHERS 20 AND OVER, ALASKA, 1990-1998	51
CHART 2.1	NEONATAL AND POSTNEONATAL MORTALITY RATES PER 1,000 LIVE BIRTHS, ALASKA AND THE UNITED STATES, 1989-1998 (DEATH COHORT METHOD)	56
CHART 2.2	95% CONFIDENCE INTERVALS FOR INFANT MORTALITY BY CENSUS AREA, ALASKA, 1989-1998 (DEATH COHORT)	57
CHART 6.1	PERCENT OF DEATHS BY AGE AND SEX, ALASKA AND THE UNITED STATES, 1998	89
CHART 6.2	AGE-ADJUSTED DEATH RATES, ALASKA AND THE UNITED STATES, 1990-1998	90

LIST OF CHARTS (continued)**Alaska Bureau of Vital Statistics**

CHART 6.3	YEARS OF LIFE LOST IN ALASKA BY FIVE-YEAR AGE GROUPS, 3-YEAR AVERAGE VALUES, 1996-1998	92
CHART 6.4	AGE-ADJUSTED DEATH RATES WITH 95 PERCENT CONFIDENCE INTERVALS FOR ALASKA, AND RATES FOR THE UNITED STATES, BY CAUSE, 1998	93
CHART 6.5	AGE-ADJUSTED DEATH RATES WITH 95 PERCENT CONFIDENCE INTERVALS BY SEX FOR THE TEN LEADING CAUSES OF DEATH IN ALASKA, 1998	95
CHART 6.6	AGE-ADJUSTED DEATH RATES WITH 95 PERCENT CONFIDENCE INTERVALS FOR WHITES AND NATIVES FOR THE TEN LEADING CAUSES OF DEATH IN ALASKA, 1998	96
CHART 6.7	CRUDE DEATH RATES FOR EXTERNAL CAUSES OF DEATH FOR ALASKA WHITE AND NATIVE RESIDENTS BY SEX, 1992-1998	100
CHART 6.8	EXTERNAL CAUSES OF DEATH BY METHOD, ALASKA RESIDENTS AND NON-RESIDENTS, 1998	119
CHART I.1	PERCENT DISTRIBUTION OF THE POPULATION BY AGE AND SEX, ALASKA AND THE UNITED STATES, 1998	172

LIST OF MAPS

MAP 1.1	CRUDE BIRTH RATE BY CENSUS AREA OF THE MOTHER'S RESIDENCE, ALASKA, 1998	13
MAP H.1	CENSUS AREAS OF ALASKA	162
MAP H.2	ALASKA'S NATIVE REGIONAL CORPORATIONS	163
MAP H.3	ALASKA COURT LOCATIONS	164

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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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. 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
Fax: (907) 465-3618
Email: 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 ¹
White	456,271
Native	103,361 ²
African American	27,460
Asian and Pacific Islander	29,990
Male	321,184
Female	295,898
Natural Increase	7,341 ³
Natural Increase Rate	11.9 ⁴

Births	
Total Births	9,920
Crude Birth Rate	16.3 ⁴
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 ⁸
Fertility Rate	71.6 ⁹
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 ¹⁰
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 ¹¹

Deaths	
Total Deaths	2,579
Crude Death Rate	417.9 ⁵
Age-Adjusted Death Rate	460.1 ⁶
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 ⁷
White Infant Mortality Rate	5.9
Native Infant Mortality Rate	10.4

Other Vital Events	
Fetal Deaths	40
Fetal Death Rate	4.1 ⁷
Adoptions	777
Crude Adoption Rate	1.3 ⁴
Marriages	5,105
Crude Marriage Rate	8.3 ⁴
Divorces	3,329
Crude Divorce Rate	5.4 ⁴

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; Natives¹, 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.²

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).³ 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 years⁴. 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.

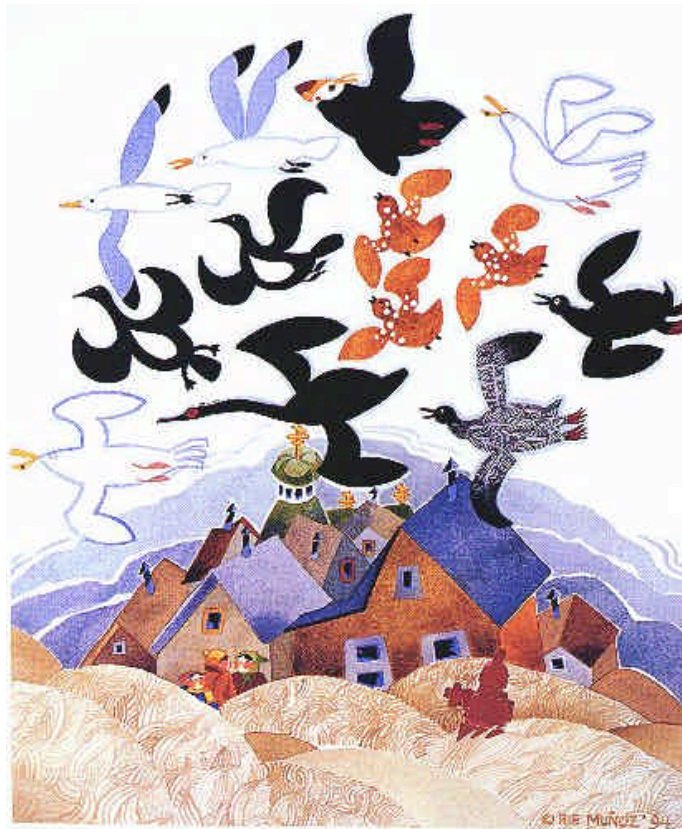
There are a number of ways to report vital events including numbers of events, rates based on total populations, or rates based on specific populations. For a discussion of the use of vital statistics and a comparison of different populations, see Appendix B.

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.

DEATH



“Seabirds, St. George” copyright Rie MuZoz, Ltd.

In 1998, 2,579 Alaskan residents died; 1,508 males and 1,071 females. Of this number, 168 Alaska residents died out of state. A total of 2,546 deaths occurred in Alaska. Of this number, 2,411 were Alaska residents and 135 were from out of state. (See Tables 6.1A and 6.1B.) The total number of resident deaths (2,579) is a decrease from the 2,582 resident deaths in 1997.

April, November, and December were the months with the highest number of deaths (232, 234, and 231, respectively) and August had the fewest deaths with 190. Twenty-nine percent of decedents were born in Alaska; however only 8.6 percent of white decedents were born in Alaska, while 95.4 percent of Native decedents were born in Alaska.

Over thirty-one percent of decedents age 18 and over were veterans (51.8 percent of males and 2.8 percent of females).

Twenty-four percent of decedents age 18 and over were widowed; 15.3 had never married; 41.5 percent were married at the time of death; and 17.8 percent were divorced. Statistics for men and women varied significantly:

- 47.3 percent of males were married and 33.6 percent of females were married;
- 11.0 percent of males were widowed and 41.9 percent of females were widowed;
- 20.8 percent of males had never married while only 7.7 percent of females had never married;
- 19.0 percent of males were divorced and 16.3 percent of females were divorced.

Cremation was the most common disposition of remains (51.2 percent); burial the second (38.3 percent); and 9.2 percent were transferred out of state.

CRUDE DEATH RATES

The crude death rate is the number of deaths in a year divided by the estimated population and multiplied by a constant of proportionality, in this case, 100,000. In 1998, there were 2,579 Alaska resident deaths and an estimated population of 617,082 as of July 1. The 1998 crude death rate calculation is $(2,579/617,082)*100,000=417.9$.

TABLE 6.1A RESIDENT DEATHS, ESTIMATED POPULATIONS, AND CRUDE DEATH RATES BY CENSUS AREA, AND PLACE OF DEATH BY CENSUS AREA, ALASKA, 1998

CENSUS AREA	DEATHS OCCURRING	RESIDENT DEATHS	POPULATION	CRUDE RATE
ALEUTIANS EAST	6	10	2,145	466.2
ALEUTIANS WEST	11	11	5,346	205.8
ANCHORAGE BOROUGH	1,163	985	257,260	382.9
BETHEL	60	76	15,935	476.9
BRISTOL BAY BOROUGH	7	6	1,291	464.8
DENALI BOROUGH	14	4	1,868	214.1
DILLINGHAM	21	26	4,686	554.8
FAIRBANKS NORTH STAR BOROUGH	294	288	83,045	346.8
HAINES BOROUGH	13	15	2,461	609.5
JUNEAU BOROUGH	118	120	30,021	399.7
KENAI PENINSULA BOROUGH	207	234	48,532	482.2
KETCHIKAN GATEWAY BOROUGH	95	90	14,143	636.4
KODIAK ISLAND BOROUGH	37	49	13,716	357.2
LAKE AND PENINSULA	16	15	1,842	814.3
MATANUSKA-SUSITNA BOROUGH	175	221	54,153	408.1
NOME	51	69	9,341	738.7
NORTH SLOPE BOROUGH	22	30	7,268	412.8
NORTHWEST ARCTIC BOROUGH	24	36	6,817	528.1
PRINCE OF WALES-OUTER KETCHIKAN	11	22	6,830	322.1
SITKA BOROUGH	50	41	8,722	470.1
SKAGWAY-HOONAH-ANGOON	16	22	3,642	604.1
SOUTHEAST FAIRBANKS	16	27	6,349	425.3
VALDEZ-CORDOVA	40	54	10,274	525.6
WADE HAMPTON	24	37	7,044	525.3
WRANGELL-PETERSBURG	23	33	7,165	460.6
YAKUTAT	2	4	775	516.1
YUKON-KOYUKUK	30	53	6,411	826.7
CENSUS AREA UNKNOWN		1		
OUTSIDE ALASKA	168			
TOTAL	2,714	2,579	617,082	417.9

The 1998 crude death rate for Alaska of 417.9 compares with a crude death rate of 422.4 in 1997, 430.3 in 1996, and 423.9 in 1995. The 1998 crude death rate for the United States was 865.0 per 100,000 population.¹ Table 6.1A provides numbers of deaths, estimated population, crude death rates, and place of death by census area throughout the state. Note that the 'Deaths Occurring' column includes non-residents who died in Alaska and residents who died outside the state.

¹ 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 11, page 27.

TABLE 6.1B DEATHS BY NATIVE REGIONAL CORPORATION OF RESIDENCE AND BY PLACE OF DEATH, ALASKA, 1998

NATIVE REGIONAL CORPORATION	DEATHS OCCURRING	RESIDENT DEATHS
AHTNA	18	17
ALEUT	17	21
ARCTIC SLOPE	22	30
BERING STRAITS	51	69
BRISTOL BAY	43	46
CALISTA	84	113
CHUGACH	50	66
COOK INLET	1,519	1,411
DOYON	352	372
KONIAG	38	50
NANA	24	36
SEALASKA	328	347
OUTSIDE ALASKA	168	
UNKNOWN		1
TOTAL	2,714	2,579

DEATHS BY RACE AND SEX

As individual groups, males and Natives account for a disproportionate number of deaths. Males made up 52.0 percent of the population in Alaska but accounted for 58.5 percent (1,508) of all deaths in 1998. Natives constituted 16.7 percent of the population and accounted for 23.4 percent of all deaths in 1998. The median age for all deaths was 66 years. The median age of death for males was 62 and for females was 71. The median age of death for whites was 67 and for Natives was 61.

The total number of deaths for whites in 1998 was 1,827 compared with 1,817 in 1997. The total number of deaths for Natives in 1998 was 603 compared with 617 in 1997, a decrease of 2.3 percent. The total number of deaths for all other races in 1998 was 149, compared with 148 in 1997.

To ensure more consistent reporting and calculation of rates by race in this report, the race on the death certificate has been compared with the race on the birth certificate for all decedents who were born in Alaska in 1989 or later. (1989 was the first year in which the child's race at birth was determined by the mother's race.) For those showing different races on the death and birth certificates, the race as shown on the birth certificate is used for purposes of analysis in this report.

TABLE 6.2A DEATHS BY THE DECEDENT'S CENSUS AREA OF RESIDENCE, RACE AND SEX, ALASKA, 1998

CENSUS AREA OF DECEDENT'S RESIDENCE	RACE AND SEX OF DECEDENT										TOTAL	
	WHITE		NATIVE		AFRICAN/AM		ASIAN/PI		UNKNOWN			
	M	F	M	F	M	F	M	F	M	F		
ALEUTIANS EAST			5	4					1			10
ALEUTIANS WEST	2		4	4					1			11
ANCHORAGE	453	317	63	55	28	19	24	23	2	1		985
BETHEL	1	3	42	30								76
BRISTOL BAY		2	1	3								6
DENALI	4											4
DILLINGHAM	1	4	12	9								26
FAIRBANKS NSB	141	93	13	14	11	6	4	4	2			288
HAINES BOROUGH	9	5	1									15
JUNEAU BOROUGH	48	45	16	6			2	3				120
KENAI PENINSULA	124	89	9	8	1	1	1			1		234
KETCHIKAN	38	35	7	8				2				90
KODIAK ISLAND	21	11	6	7			3		1			49
LAKE-PENINSULA	2	2	8	3								15
MATANUSKA-SUSITNA	127	83	6	3				1	1			221
NOME	6		38	25								69
NORTH SLOPE	2		16	11			1					30
NORTHWEST ARCTIC	1	2	18	15								36
PRINCE OF WALES	8	3	7	4								22
SITKA BOROUGH	17	14	5	3			2					41
SKGWAY-HOONAH-ANG	12	2	2	6								22
SE FAIRBANKS	12	7	4	3		1						27
VALDEZ-CORDOVA	27	14	7	5							1	54
WADE HAMPTON			23	14								37
WRANGELL-PETERSBG	16	12	2	3								33
YAKUTAT		2	1	1								4
YUKON-KOYUKUK	7	3	29	14								53
UNKNOWN					1							1
TOTAL	1,079	748	345	258	41	27	37	35	6	3		2,579

TABLE 6.2B DEATHS BY THE DECEDENT'S NATIVE REGIONAL CORPORATION OF RESIDENCE, RACE AND SEX, ALASKA, 1998

NRC OF DECEDENT'S RESIDENCE	RACE AND SEX OF DECEDENT										TOTAL	
	WHITE		NATIVE		AFRICAN/AM		ASIAN/PI		UNKNOWN			
	M	F	M	F	M	F	M	F	M	F		
AHTNA INC.	8	4	3	2								17
ALEUT CORP.	2		9	8					2			21
ARCTIC SLOPE CORP.	2		16	11			1					30
BERING STRAITS CORP.	6		38	25								69
BRISTOL BAY CORP.	2	8	21	15								46
CALISTA CORP.	1	3	65	44								113
CHUGACH NATIVES INC.	32	17	9	6	1						1	66
COOK INLET REG CORP.	691	482	73	63	28	20	25	24	3	2		1,411
DOYON LTD.	164	103	46	31	11	7	4	4	2			372
KONIAG INC.	22	11	6	7			3		1			50
NANA REGIONAL CORP.	1	2	18	15								36
SEALASKA CORP.	148	118	41	31			4	5				347
UNKNOWN					1							1
TOTAL	1,079	748	345	258	41	27	37	35	6	3		2,579

DEATHS BY AGE

TABLE 6.3A DEATHS BY THE DECEDENT'S CENSUS AREA OF RESIDENCE AND AGE, ALASKA, 1998

CENSUS AREA OF DECEDENT'S RESIDENCE	AGE AT DEATH										TOTAL
	<5	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
ALEUTIANS EAST				1		4	3		2		10
ALEUTIANS WEST	2		1		1		2	1	3	1	11
ANCHORAGE	36	11	26	33	82	134	145	208	205	105	985
BETHEL	3	3	6	8	7	3	8	14	12	12	76
BRISTOL BAY					2		1	2		1	6
DENALI			1			1	1	1			4
DILLINGHAM	1	1	1	3	2	1	5	5	2	5	26
FAIRBANKS NSB	4	5	14	22	29	44	44	51	45	30	288
HAINES BOROUGH						3	3	3	5	1	15
JUNEAU BOROUGH	2		2	4	14	10	15	24	29	20	120
KENAI PENINSULA	6	3	2	4	15	30	33	53	55	33	234
KETCHIKAN					3	11	14	23	26	13	90
KODIAK ISLAND	4		6	3	4	6	8	9	4	5	49
LAKE-PENINSULA	1		1	1	3		5	2	1	1	15
MATANUSKA-SUSITNA	4	3	8	10	21	25	31	55	42	22	221
NOME	3	2	7	4	12	9	6	13	10	3	69
NORTH SLOPE	1		1	1	10	4	6	5	1	1	30
NORTHWEST ARCTIC	2		3	3	3	4	5	8	6	2	36
PRINCE OF WALES	1					6	3	8	1	3	22
SITKA BOROUGH			3		5	4		7	7	15	41
SKGWAY-HOONAH-ANG	1				3	6	5	2	4	1	22
SE FAIRBANKS			5	1		2	4	6	4	5	27
VALDEZ-CORDOVA		2	2	1	5	8	8	10	11	7	54
WADE HAMPTON	3	1	6	3	2	1	4	4	9	4	37
WRANGELL-PETERSBG			1	1		4	3	9	11	4	33
YAKUTAT								1	2	1	4
YUKON-KOYUKUK			11	1	3	3	7	7	14	7	53
UNKNOWN								1			1
TOTAL	74	31	107	104	226	323	369	532	511	302	2,579

TABLE 6.3B DEATHS BY THE DECEDENT'S NATIVE REGIONAL CORPORATION OF RESIDENCE AND AGE, ALASKA, 1998

NRC OF DECEDENT'S RESIDENCE	AGE AT DEATH										TOTAL
	<5	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
AHTNA				1	1	3	4	3	2	3	17
ALEUT	2		1	1	1	4	5	1	5	1	21
ARCTIC SLOPE	1		1	1	10	4	6	5	1	1	30
BERING STRAITS	3	2	7	4	12	9	6	13	10	3	69
BRISTOL BAY	2	1	2	4	7	1	10	9	3	7	46
CALISTA	6	4	12	11	9	4	12	18	21	16	113
CHUGACH		2	3		8	11	7	11	15	9	66
COOK INLET	46	17	35	47	114	183	206	312	296	155	1,411
DOYON	4	5	31	24	32	50	56	65	63	42	372
KONIAG	4		6	3	4	6	9	9	4	5	50
NANA	2		3	3	3	4	5	8	6	2	36
SEALASKA	4		6	5	25	44	43	77	85	58	347
UNKNOWN								1			1
TOTAL	74	31	107	104	226	323	369	532	511	302	2,579

Death rates vary widely by race and sex. Males and Natives have significantly higher death rates than other groups. Whites had a race-specific death rate of 400.4 per 100,000 white population, and Natives had a race-specific death rate of 583.4 per 100,000 Native population (Table 6.4A). The sex-specific death rate for Alaskan males was 469.5 deaths per 100,000 male population, and was 361.9 per 100,000 female population (Table 6.4B). Native males had a race/sex-specific death rate almost twice that of white females (Table 6.5). Rates calculated on a small number of events are not reliable. For this reason rates have been blanked out for population segments with fewer than three deaths.

TABLE 6.4A RACE-SPECIFIC DEATH RATES AND PERCENTAGES BY AGE GROUP, ALASKA, 1998

AGE AT DEATH	RACE OF DECEDENT								
	WHITE			NATIVE			ALL OTHER		
	DTHS	PCT	RATE	DTHS	PCT	RATE	DTHS	PCT	RATE
<5	39	2.1	111.2	24	4.0	207.7	11	7.4	209.3
5-14	19	1.0	25.0	9	1.5	35.8	3	2.0	28.6
15-24	56	3.1	101.4	44	7.3	251.0	7	4.7	77.2
25-34	58	3.2	92.0	36	6.0	257.0	10	6.7	87.7
35-44	122	6.7	127.4	92	15.3	622.5	12	8.1	122.5
45-54	248	13.6	335.3	52	8.6	551.3	23	15.4	369.7
55-64	272	14.9	829.1	77	12.8	1,386.4	20	13.4	764.8
65-74	391	21.4	2,470.8	112	18.6	3,368.4	29	19.5	1,637.5
75-84	396	21.7	5,490.1	92	15.3	6,013.1	23	15.4	3,299.9
85+	226	12.4	17,121.2	65	10.8	13,569.9	11	7.4	8,593.8
TOTAL	1,827	100.0	400.4	603	100.0	583.4	149	100.0	259.4

TABLE 6.4B SEX-SPECIFIC DEATH RATES AND PERCENTAGES BY AGE GROUP, ALASKA, 1998

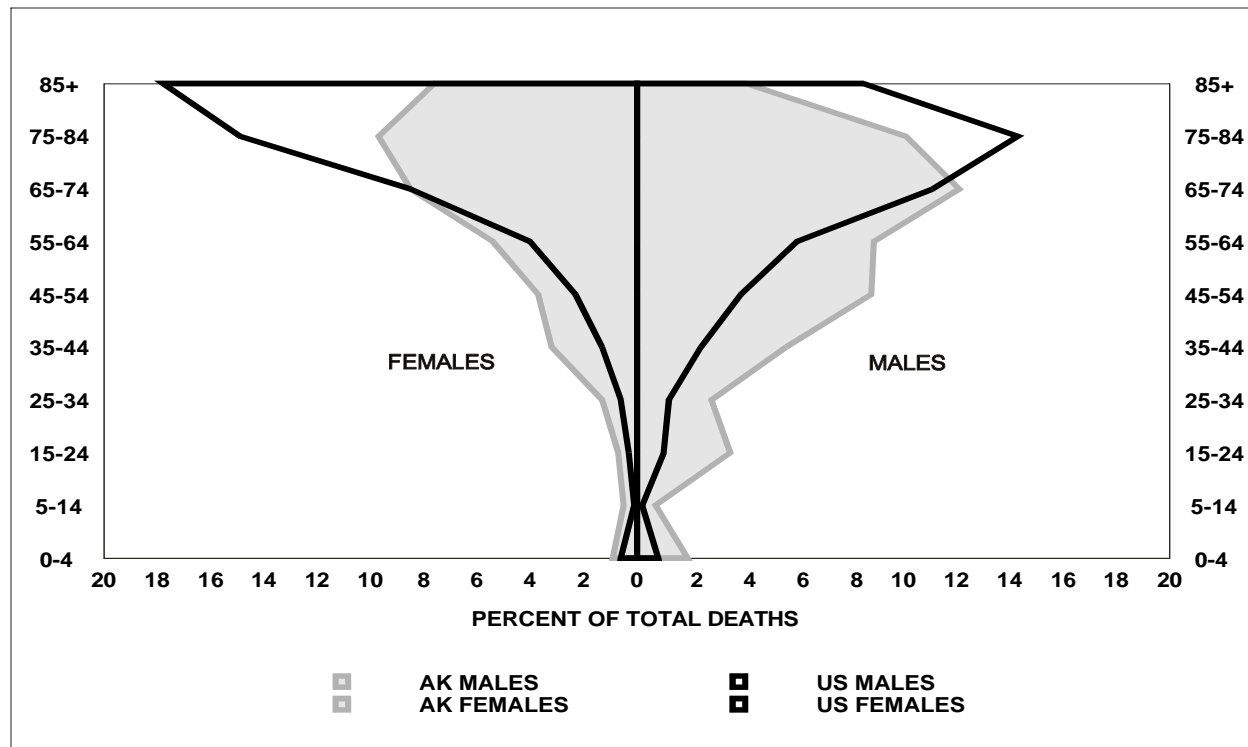
AGE	SEX OF DECEDENT						TOTAL		
	MALE			FEMALE					
	DTHS	PCT	RATE	DTHS	PCT	RATE	DTHS	PCT	RATE
<5	50	3.3	188.9	24	2.2	94.5	74	2.9	142.6
5-14	18	1.2	31.4	13	1.2	23.9	31	1.2	27.7
15-24	89	5.9	211.4	18	1.7	45.3	107	4.1	130.8
25-34	71	4.7	149.3	33	3.1	80.7	104	4.0	117.6
35-44	144	9.5	230.9	82	7.7	141.5	226	8.8	187.8
45-54	228	15.1	472.8	95	8.9	229.5	323	12.5	360.4
55-64	229	15.2	1,045.5	140	13.1	734.0	369	14.3	900.5
65-74	313	20.8	3,008.5	219	20.4	2,082.3	532	20.6	2,542.9
75-84	261	17.3	6,260.5	250	23.3	4,742.9	511	19.8	5,413.1
85+	105	7.0	14,522.8	197	18.4	16,362.1	302	11.7	15,672.0
TOTAL	1,508	100.0	469.5	1,071	100.0	361.9	2,579	100.0	417.9

TABLE 6.5 RACE/SEX-SPECIFIC DEATH RATES AND PERCENTAGES BY AGE GROUP, ALASKA, 1998

AGE	WHITE						NATIVE						ALL OTHER					
	MALE			FEMALE			MALE			FEMALE			MALE			FEMALE		
	DTH	PCT	RATE	DTH	PCT	RATE	DTH	PCT	RATE	DTH	PCT	RATE	DTH	PCT	RATE	DTH	PCT	RATE
<5	27	2.5	151.2	12	1.6	69.7	16	4.6	269.3	8	3.1	142.5	7	8.3	262.2	4	6.2	154.7
5-14	11	1.0	28.1	8	1.1	21.7	5	1.4	39.0	4	1.6	32.4	2	2.4		1	1.5	
15-24	49	4.5	175.1	7	0.9	25.7	33	9.6	365.8	11	4.3	129.2	7	8.3	137.1			
25-34	39	3.6	115.6	19	2.5	64.8	24	7.0	329.2	12	4.7	178.6	8	9.5	122.3	2	3.1	
35-44	78	7.2	154.7	44	5.9	97.1	57	16.5	804.4	35	13.6	455.0	9	10.7	185.4	3	4.6	60.7
45-54	176	16.3	435.0	72	9.6	214.9	34	9.9	735.0	18	7.0	374.5	18	21.4	572.7	5	7.7	162.4
55-64	183	17.0	1,009.4	89	11.9	606.3	36	10.4	1,380.9	41	15.9	1,391.2	10	11.9	857.6	10	15.4	690.1
65-74	237	22.0	2,889.9	154	20.6	2,019.9	60	17.4	3,965.6	52	20.2	2,869.8	16	19.0	2,318.8	13	20.0	1,202.6
75-84	200	18.5	6,015.0	196	26.2	5,041.2	55	15.9	9,182.0	37	14.3	3,974.2	6	7.1	2,449.0	17	26.2	3,761.1
85+	79	7.3	17,211.3	147	19.7	17,073.2	25	7.2	13,297.9	40	15.5	13,745.7	1	1.2		10	15.4	19,230.8
TOTAL	1,079	100.0	450.1	748	100.0	345.4	345	100.0	667.3	258	100.0	499.4	84	100.0	282.4	65	100.0	234.6

Chart 6.1 shows the percent of total deaths for Alaska and the United States by age group and sex. The percentage of U.S. residents dying after age 75 is higher than for Alaska, while the percentage of total deaths for Alaskans dying before age 75 is more than for the United States.

CHART 6.1 PERCENT OF DEATHS BY AGE AND SEX, ALASKA AND THE UNITED STATES, 1998²



AGE-ADJUSTED DEATH RATES

Since the population of Alaska is younger than the population of the country as a whole, crude death rates and percentages by age do not provide a valid comparison between the two populations. In this case, age-adjusted death rates are used. Please refer to Appendix B for an explanation of how age-adjusted death rates are calculated. Table 6.6 shows age adjusted death rates for Alaska and the United States³ for certain populations.

Chart 6.2 compares age-adjusted death rates for the populations of Alaska and the United States from 1990 through 1998. Rates are per 100,000 population, adjusted to the 1940 U.S. standard million population. (See Appendix A for the definition of *standard million population*.)

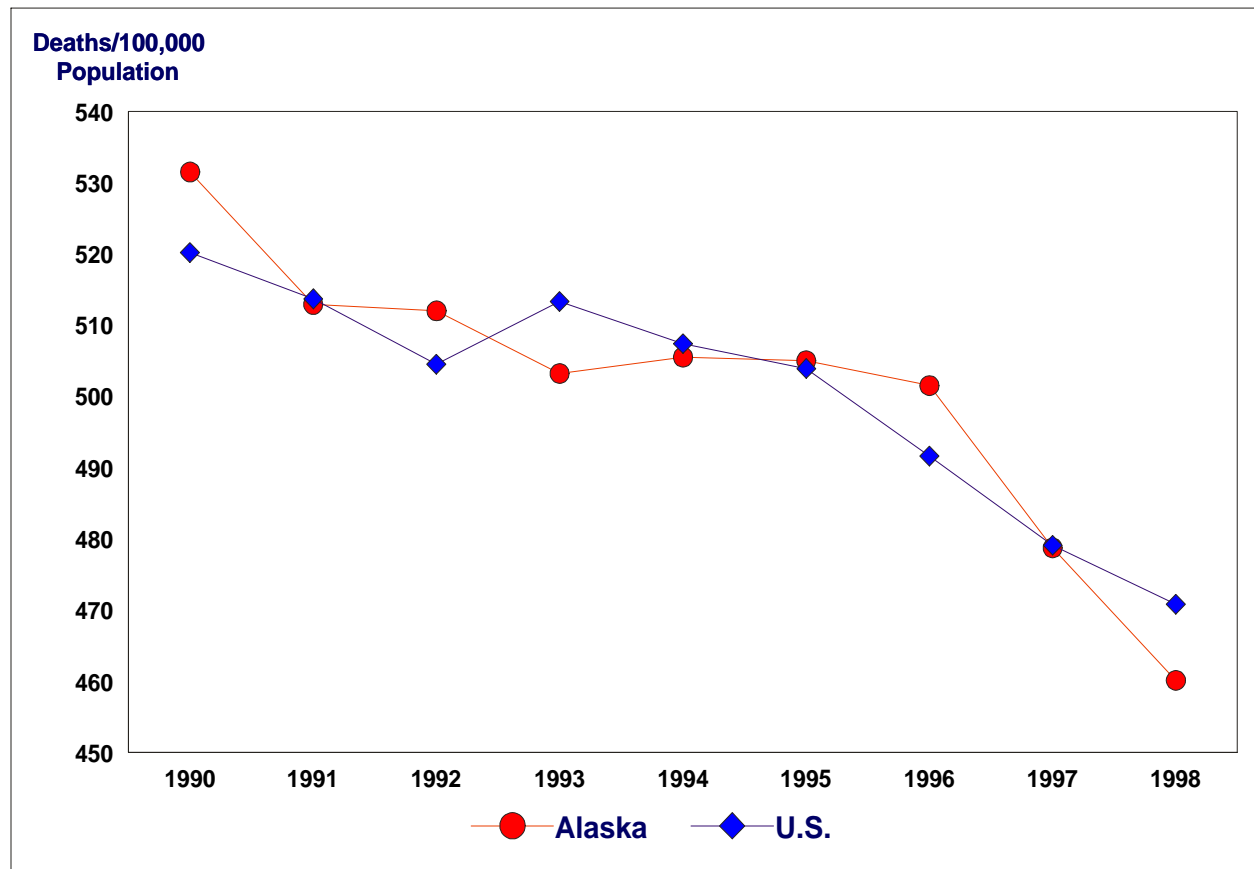
2 National Center for Health Statistics, U.S. Department of Health and Human Services, "Births and Deaths: Preliminary Data for 1998" *National Vital Statistics Report*, Vol. 47, No. 25, October 5, 1999, Table 10, p. 20.

3 Ibid., Table 10, pp. 19-22.

TABLE 6.6 AGE-ADJUSTED DEATH RATES FOR CERTAIN POPULATIONS, ALASKA AND UNITED STATES, 1992-1998

POPULATION	1992	1993	1994	1995	1996	1997	1998
Alaska Males	627.4	622.2	623.4	629.0	604.7	587.0	549.1
U.S. Males	656.0	664.9	654.6	646.3	623.7	602.8	587.9
Alaska Females	395.6	382.3	385.8	376.1	394.6	366.9	366.8
U.S. Females	380.3	388.3	385.2	385.2	381.0	375.7	372.3
Alaska Whites	467.7	458.8	466.2	481.2	468.0	446.3	432.4
U.S. Whites	477.5	485.1	479.8	476.9	466.8	456.5	450.4
Alaska Natives	791.9	764.3	793.0	686.2	734.4	715.5	677.7
U.S. American Indian	453.1	468.9	460.7	468.5	456.7	465.3	458.6
Alaska Other Races	376.6	403.5	332.0	397.7	391.2	353.9	332.1
Alaska Total	512.0	503.2	505.5	505.0	501.5	478.7	460.1
U.S. Total	504.5	513.3	507.4	503.9	491.6	479.1	470.8

CHART 6.2 AGE-ADJUSTED DEATH RATES, ALASKA AND THE UNITED STATES, 1990-1998



EXPECTATION OF LIFE

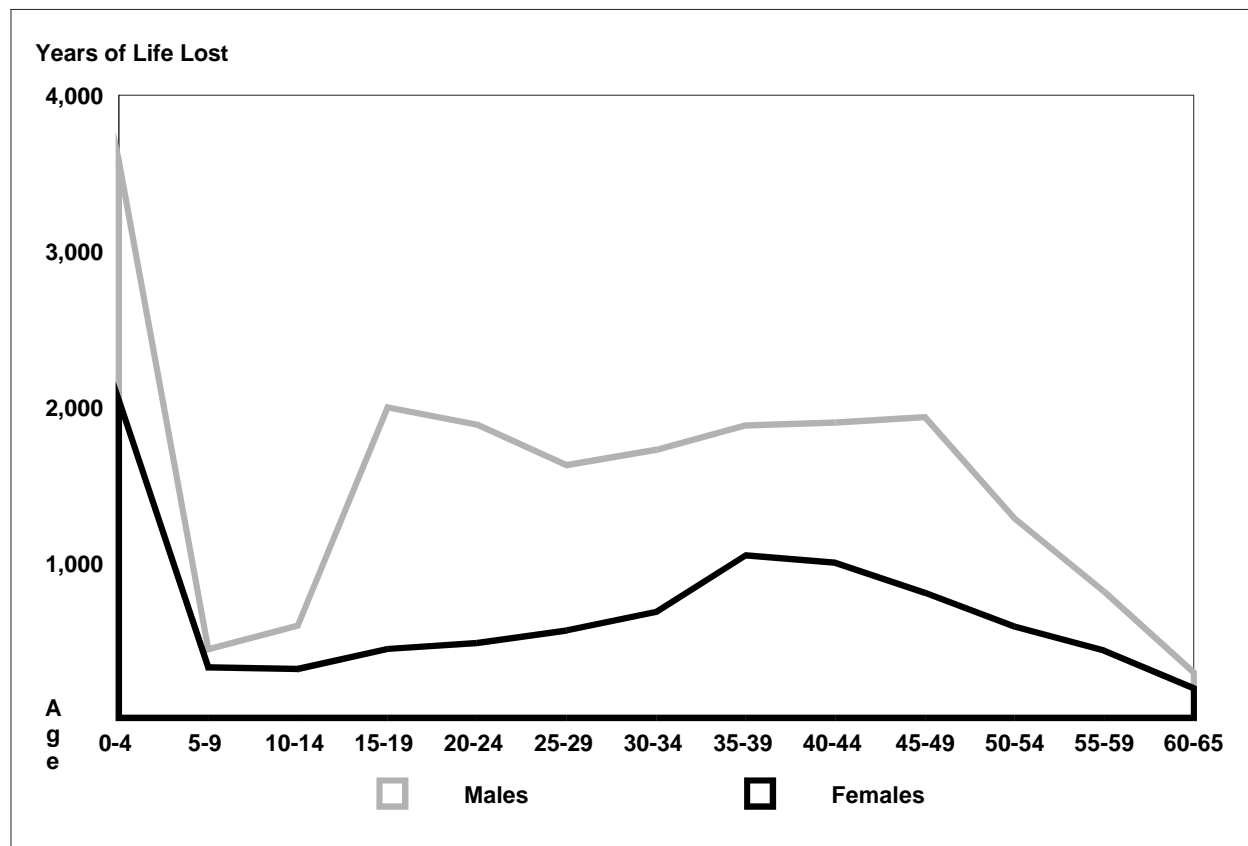
The expectation of life at birth for 1998 is the average number of years that infants born during 1998 could expect to live if they were to experience the same age-specific death rates experienced during 1998. The expectation of life for the United States during 1998 was 76.7, surpassing the previous record high of 76.5 years in 1997.⁴ In Alaska, expectation of life is calculated using five years of data to reduce the possibility of year-to-year random fluctuations. From 1994-1998, the expectation of life in Alaska was 74.7, 0.2 years more than in the five years from 1993-1997. Females generally have a longer life expectancy than males. For Alaskan females, the 1994-1998 expectation of life was 77.5, 0.1 years more than the five years from 1993-1997, and for males it was 72.3, a 0.2 year increase from the previous period; whites had a life expectancy of 75.7, a 0.1 year increase; and Natives had a life expectancy of 69.4 years, up from 69.0 from 1993-1997. For an explanation of how expectation of life is calculated, see Appendix B.

YEARS OF LIFE LOST

Years of Life Lost (YLL) emphasizes mortality in younger populations and is calculated by multiplying the number of deaths within an age group by the number of years of productive life lost. (For more information on calculation of Years of Life Lost, see Appendix B.)

Chart 6.3 shows YLL for males and females in Alaska. For calculation purposes, deaths were assumed to occur at the midpoint of the age interval. Data in Chart 6.3 are based upon a standard definition of 65 years of productive life for males and females and was derived by averaging data for a three-year period, from 1996 to 1998.

CHART 6.3 YEARS OF LIFE LOST IN ALASKA BY FIVE-YEAR AGE GROUPS, 3-YEAR AVERAGE VALUES, 1996-1998



4 Ibid., page 5.

CAUSES OF DEATH IN ALASKA

As used in this report, *cause of death* is the underlying cause of death shown on the death certificate. The underlying cause of death is defined by the World Health Organization's International Classification of Diseases, Ninth Revision (ICD-9) as the disease or injury which initiated the sequence of morbid events leading directly to the death, or the circumstances of the accident or violence which produced the fatal injury. The National Center for Health Statistics has categorized causes of death for the purpose of uniform analyses in all 50 states.⁵ For statistical purposes, causes of death are generally grouped into 72 selected categories. For special analyses, causes of death have been broken into other categories. Appendix C lists the selected causes of death used in the following tables and specifies the ICD-9 codes associated with each.

Table 6.7A lists the age-adjusted death rates for Alaska and the United States for the total population, males, and females, for the ten leading causes of death in Alaska. United States' rankings are given in parentheses. Chart 6.4 is a graph of the age-adjusted death rates for the United States and Alaska (with confidence intervals) for Alaska's ten leading causes of death. This chart shows that the age-adjusted death rates for accidents and suicides in Alaska are significantly higher than the U.S. rates; however, the U.S. rates for heart disease, cancer, and pneumonia and influenza are significantly higher than the Alaska rates. (For an explanation of confidence intervals, see Appendix B.)

TABLE 6.7A COMPARISON OF AGE-ADJUSTED DEATH RATES FOR THE TEN LEADING CAUSES OF DEATH IN ALASKA, ALASKA AND THE UNITED STATES, 1998 (US RANKINGS IN PARENTHESES)⁶

CAUSE OF DEATH	TOTAL		ALASKA	
	ALASKA	U.S.	MALE	FEMALE
1 (2) CANCER	120.3	122.9	134.2	108.2
2 (1) HEART DISEASE	100.2	126.0	138.4	61.9
3 (6) ACCIDENTS & ADVERSE EFFECTS	42.0	28.5	58.7	23.5
4 (3) CEREBROVASCULAR DISEASES	26.6	25.0	22.6	29.2
5 (8) SUICIDE	23.7	10.0	36.7	9.6
6 (4) CHRONIC OBSTRUCTIVE PULMONARY DISEASES	21.5	21.6	21.3	22.2
7 (7) DIABETES MELLITUS	12.4	13.6	11.5	13.1
8 (5) PNEUMONIA & INFLUENZA	9.1	13.5	9.2	8.9
9 (10) CHRONIC LIVER DISEASE & CIRRHOSIS	8.2	7.1	9.7	6.4
10 (13) HOMICIDE & LEGAL INTERVENTION	7.6	6.9	10.4	4.4
ALL CAUSES	460.1	470.6	549.1	366.8

5 National Center for Health Statistics, Public Health Service, U.S. Department of Health and Human Services, "Vital Statistics: ICD-9 Underlying Cause-of-Death Lists for Tabulating Mortality Statistics," *Instruction Manual, Part 9, Tabulation*, Effective 1979.

6 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 E, p. 6.

CHART 6.4 AGE-ADJUSTED DEATH RATES WITH 95 PERCENT CONFIDENCE INTERVALS FOR ALASKA, AND RATES FOR THE UNITED STATES, BY CAUSE, 1998

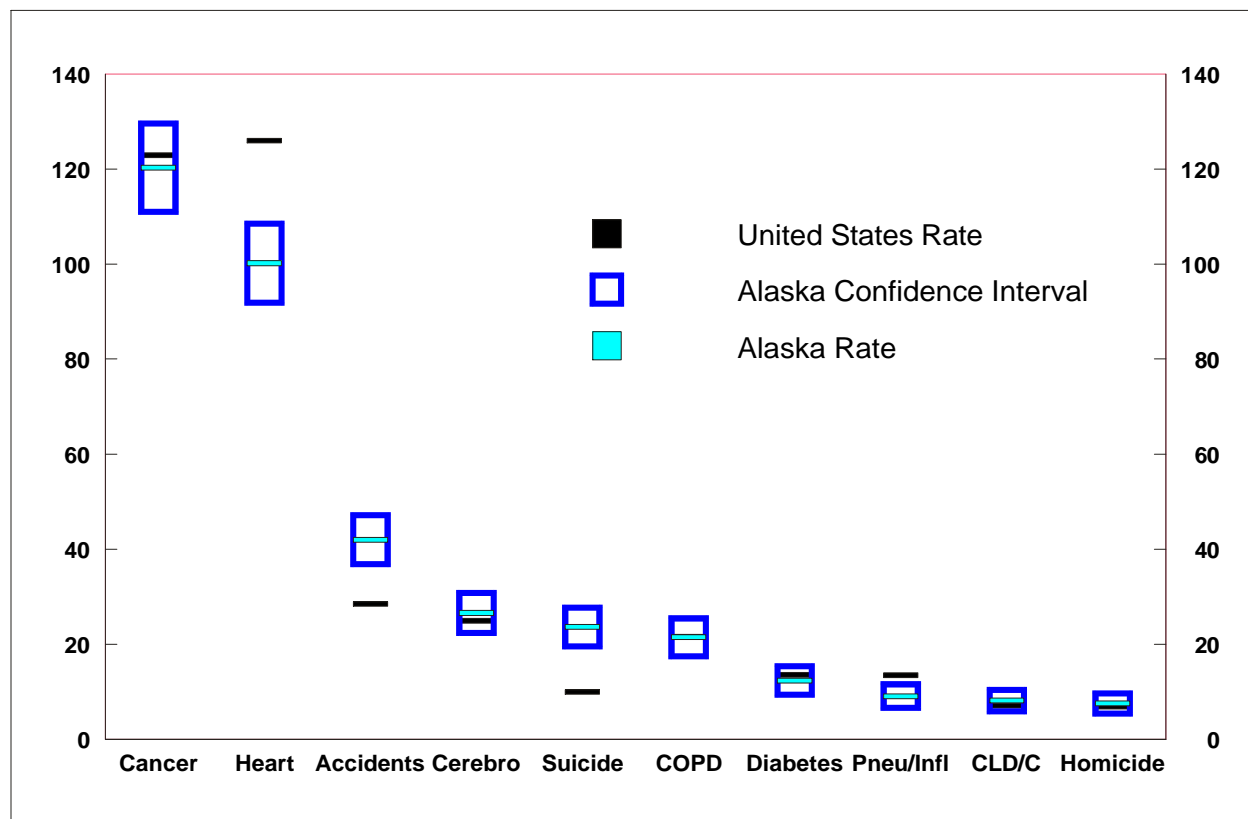


TABLE 6.7B DEATHS, DEATH RATES AND PERCENTAGES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN THE U.S. AND ALASKA, 1998 (ALASKA RANK IN PARENTHESES)

15 LEADING CAUSES OF DEATH IN THE U.S. (AND ALASKA)	ALASKA DEATHS	ALASKA CRUDE RATE	U.S. CRUDE RATE	ALASKA PCT	U.S. PCT
01 (02) HEART DISEASE	560	90.7	268.0	21.7	31.0
02 (01) CANCER	648	105.0	199.4	25.1	23.1
03 (04) CEREBROVASCULAR DISEASES	153	24.8	58.5	5.9	6.8
04 (06) CHRONIC OBSTRUCTIVE PULMONARY DISEASES	111	18.0	42.3	4.3	4.9
05 (08) PNEUMONIA & INFLUENZA	53	8.6	35.1	2.1	4.1
06 (03) ACCIDENTS & ADVERSE EFFECTS	256	41.5	34.5	9.9	4.0
07 (07) DIABETES MELLITUS	65	10.5	23.9	2.5	2.8
08 (05) SUICIDE	131	21.2	10.8	5.1	1.2
09 (16) NEPHRITIS, NEPHROTIC SYNDROME & NEPHROSIS	12	1.9	9.7	0.5	1.1
10 (09) CHRONIC LIVER DISEASE & CIRRHOSIS	50	8.1	9.2	1.9	1.1
11 (14) SEPTICEMIA	15	2.4	8.7	0.6	1.0
12 (15) ALZHEIMER'S DISEASE	14	2.3	8.4	0.5	1.0
13 (10) HOMICIDE & LEGAL INTERVENTION	48	7.8	6.4	1.9	0.7
14 (18) ATHEROSCLEROSIS	11	1.8	5.7	0.4	0.7
15 (19) HYPERTENSION	7	1.1	5.3	0.3	0.6
ALL OTHER CAUSES	445	72.1	139.1	17.3	16.1
ALL CAUSES	2,579	417.9	865.0	100.0	100.0

Tables 6.7A and 6.7B and Chart 6.4 show different rankings for the leading causes of death in Alaska and the United States. There is also a difference in the rankings of the leading causes of death in Alaska for males and females, and for whites and Natives. Table 6.7C shows the rankings of the leading causes of death for each group.

TABLE 6.7C RANK OF LEADING CAUSES OF DEATH IN ALASKA AND THE UNITED STATES, 1998

15 LEADING CAUSES OF DEATH IN ALASKA	RANK		ALASKA RANKINGS			
	ALASKA	U.S.	MALE	FEMALE	WHITE	NATIVE
CANCER	1	2	2	1	1	1
HEART DISEASE	2	1	1	2	2	2
ACCIDENTS & ADVERSE EFFECTS	3	6	3	4	3	3
CEREBROVASCULAR DISEASES	4	3	5	3	4	5
SUICIDE	5	8	4	8	6	4
CHRONIC OBSTRUCTIVE PULMONARY DISEASES	6	4	6	5	5	6
DIABETES MELLITUS	7	7	8	6	7	10
PNEUMONIA & INFLUENZA	8	5	10	7	9	7
CHRONIC LIVER DISEASE & CIRRHOSIS	9	10	8	9	8	9
HOMICIDE & LEGAL INTERVENTION	10	13	7	10	10	8
CONGENITAL ANOMALIES	11	N/A	12	11	11	14
SIDS	12	N/A	11	21	14	11
PERINATAL PERIOD CONDITIONS	13	N/A	13	15	14	11
SEPTICEMIA	14	11	14	15	18	11
ALZHEIMER'S DISEASE	15	12	16	12	12	N/A

CHART 6.5 AGE-ADJUSTED DEATH RATES WITH 95 PERCENT CONFIDENCE INTERVALS BY SEX FOR THE TEN LEADING CAUSES OF DEATH IN ALASKA, 1998

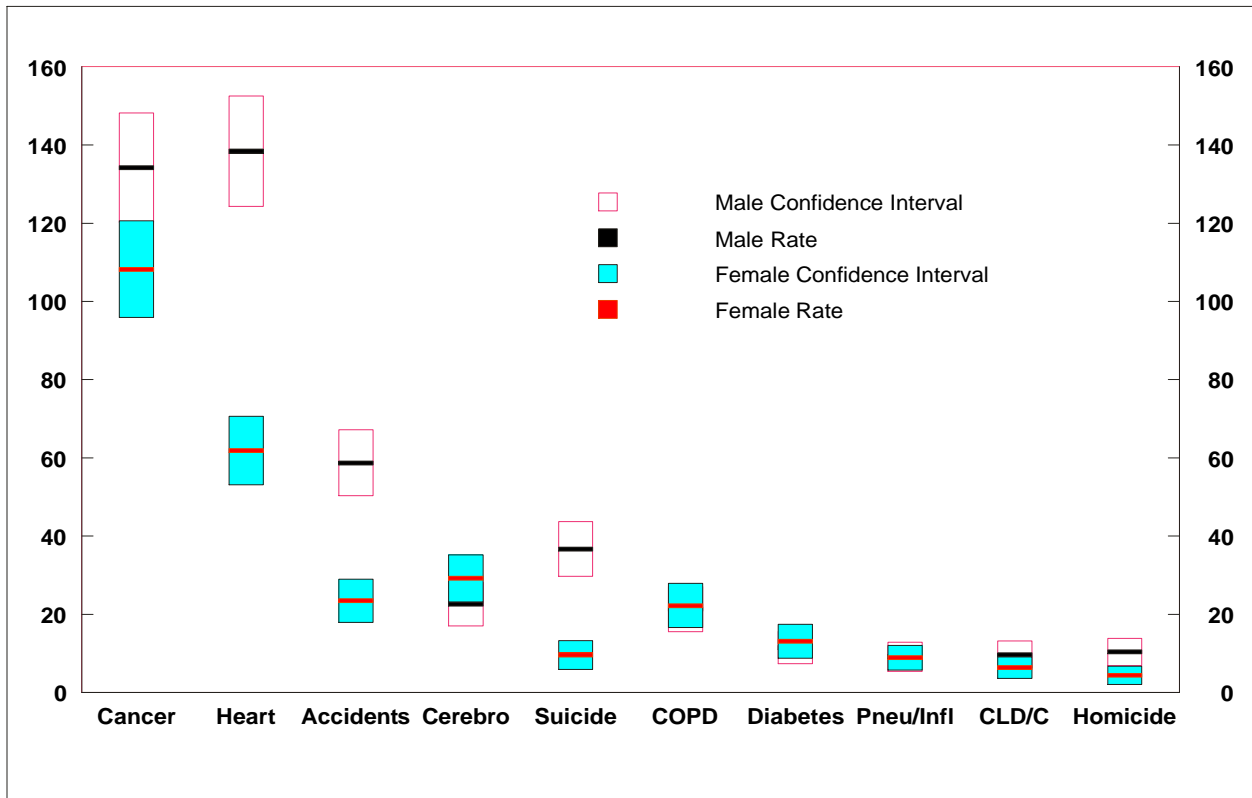
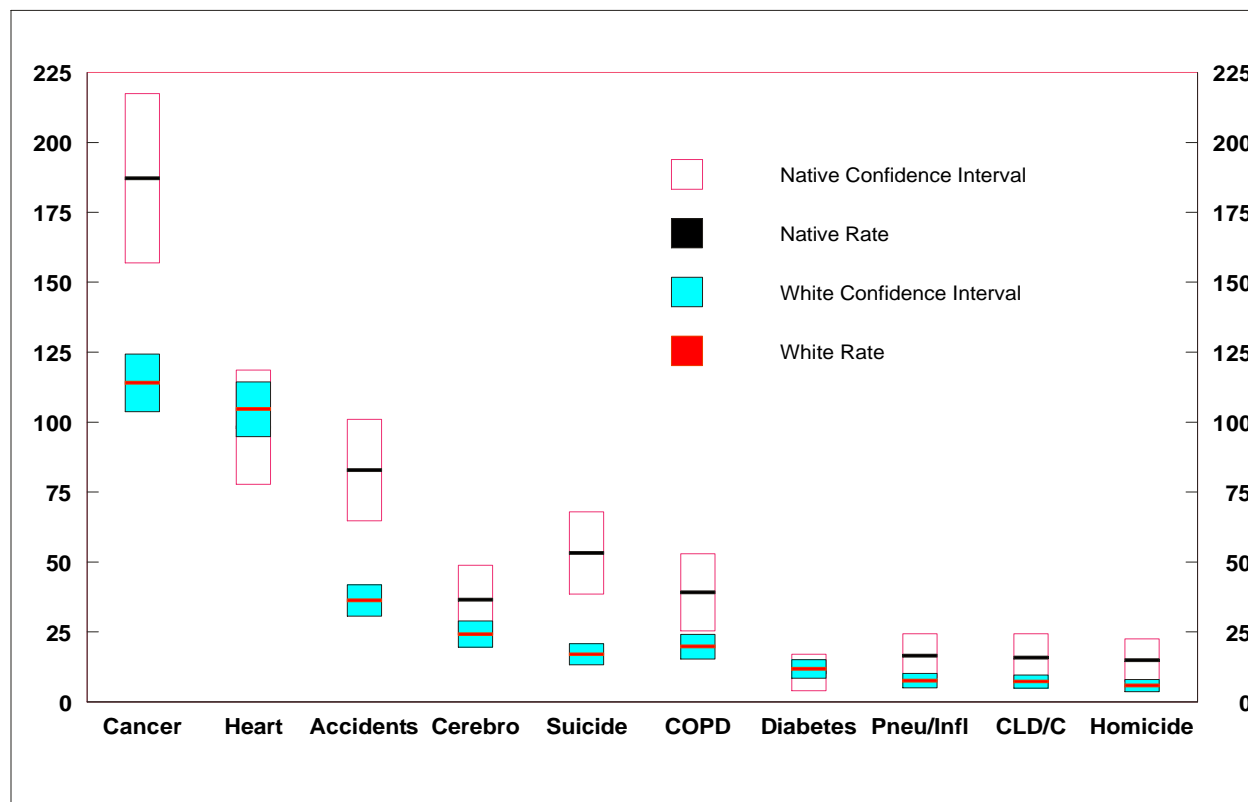


CHART 6.6 AGE-ADJUSTED DEATH RATES WITH 95 PERCENT CONFIDENCE INTERVALS FOR WHITES AND NATIVES FOR THE TEN LEADING CAUSES OF DEATH IN ALASKA, 1998



Charts 6.4 through 6.6 show comparisons of the age-adjusted death rates for the leading causes of death for the United States and Alaska (Chart 6.4), for Alaskan males and females (Chart 6.5), and for Alaskan whites and Natives (Chart 6.6). Except for U.S. rates in Chart 6.4, all charts include specific rates with 95 percent confidence intervals for each rate. (See Appendix B for an explanation of confidence intervals.) Also refer to Table 6.7C for rankings for specific populations. Table 6.7D shows the age-adjusted death rates by cause for Alaska for the years 1994-1998, and for the United States for 1997 and 1998.

TABLE 6.7D AGE-ADJUSTED DEATH RATES FOR THE TEN LEADING CAUSES OF DEATH IN ALASKA, 1994-1998, AND UNITED STATES, 1997-1998⁷

CAUSE OF DEATH	AGE-ADJUSTED DEATH RATE						
	ALASKA					U.S.	
	1994	1995	1996	1997	1998	1997	1998
CANCER	124.7	120.4	131.3	120.8	120.3	125.6	122.9
HEART DISEASE	116.3	114.7	103.5	103.9	100.2	130.5	126.0
ACCIDENTS & ADVERSE EFFECTS	55.4	56.0	56.5	46.3	42.0	30.1	28.5
CEREBROVASCULAR DISEASES	26.6	29.6	26.8	24.1	26.6	25.9	25.0
SUICIDE	26.6	21.0	22.8	21.7	23.7	10.6	10.0
CHRONIC OBSTRUCTIVE PULMONARY DISEASES	22.9	23.5	24.4	23.8	21.5	21.1	21.6
DIABETES MELLITUS	10.8	11.6	13.2	16.1	12.4	13.5	13.6
PNEUMONIA & INFLUENZA	11.1	11.2	6.5	8.7	9.1	12.9	13.5
CHRONIC LIVER DISEASE & CIRRHOSIS	7.9	10.9	9.2	8.0	8.2	7.4	7.1
HOMICIDE & LEGAL INTERVENTION	8.6	10.1	7.3	8.6	7.6	8.0	6.9
ALL CAUSES	505.5	505.0	501.5	478.7	460.1	479.1	470.6

Smoking Related Deaths

While not listed as the underlying cause of death, smoking kills more Alaskans than accidents, suicides, and homicides combined (the third, fourth, and eighth leading causes of death in Alaska). Using software provided by the Centers for Disease Control, the Section of Epidemiology estimates that 26.5 percent of all cardiovascular deaths (ICD-9 codes 390-448), 33.0 percent of all cancer deaths (ICD-9 codes 140-208), 51.7 percent of all respiratory disease deaths (ICD-9 codes 460-519), and 6.9 percent of infant deaths for ICD-9 codes 740-779 (congenital anomalies and perinatal period conditions) and 798.0 (sudden infant death syndrome) are smoking related.⁸ Using these estimates, 581 cardiovascular deaths, 631 cancer deaths, 296 respiratory deaths, and 10 infant deaths were attributable to smoking from 1996 to 1998. In addition, ICD-9 code 305.1 refers directly to tobacco dependence which resulted in another five deaths in the three-year period. This brings the total of smoking-related deaths to 1,523. In comparison, the total number of deaths from 1996 to 1998 due to accidents, suicides and homicides was 1,350.

INTERNAL CAUSES OF DEATH

Cancer

Cancer ranked as the leading cause of death in Alaska in 1998 with a total of 648 deaths compared with 616 deaths in 1997. The age-adjusted cancer death rate fell from an all-time high of 131.3 deaths per 100,000 population in 1996 to 120.8 in 1998. Cancer ranked as the leading cause of death in Alaska for the first time in 1990, and has been the leading cause of death every year since with one exception: heart disease was the leading cause of death in 1992.

The Section of Epidemiology estimates that 1/3 of all cancer deaths are related to smoking. (Refer to "Smoking Related Deaths" on page 97.)

When calculating Years of Life Lost (YLL) by cause of death, cancer results in the third greatest number of years of life lost (3,636).

7 National Center for Health Statistics, U.S. Department of Health and Human Services, "Births and Deaths: Preliminary Data for 1998," *National Vital Statistics Reports*, Vol. 47, number 25, October 5, 1999, Table E, p. 6.

8 Schumacher, Catherine, MD, MSPH, Department of Health and Social Services, Division of Public Health, Section of Epidemiology, *Bulletin*, No. 1, January 12, 1996.

Heart Disease

Heart disease ranked as the second leading cause of death in 1998 with 560 deaths. This is a 2.0 percent decrease from the 549 deaths from heart disease in 1997. The age-adjusted death rate for heart disease decreased to 100.2 from 103.9 per 100,000 population in 1997. Heart disease is ranked fourth in years of life lost (2,373 years). The age-adjusted death rate from heart disease for whites and Natives is not significantly different.

The Section of Epidemiology estimates that 26.5 percent of all deaths from cardiovascular disease (heart disease, hypertension, cerebrovascular disease, and atherosclerosis) are related to smoking.

Heart disease is the leading cause of death in the United States. Heart disease was the leading cause of death in Alaska from 1986 through 1989, and in 1992.

Cerebrovascular Disease

Cerebrovascular disease was the fourth leading cause of death in Alaska in 1998 as in the previous three years. There were 153 deaths from cerebrovascular disease in 1998, compared with 132 deaths in 1997, a 15.9 percent increase. People age 65 and over accounted for 72.5 percent of all cerebrovascular deaths. The age adjusted death rate for cerebrovascular disease was 26.6, up from 24.1 in 1997.

Chronic Obstructive Pulmonary Diseases (COPD)

Chronic Obstructive Pulmonary Disease was the sixth leading cause of death in Alaska in 1998. There were 111 deaths from chronic obstructive pulmonary disease in 1998, down from 120 deaths in 1997. People aged 65 and over accounted for 78.4 percent of all COPD deaths. The Section of Epidemiology estimates that 51.7 percent of all COPD deaths are related to smoking. The age adjusted death rate for COPD in 1998 was 21.5, down from 23.8 in 1997.

Diabetes Mellitus

Diabetes Mellitus was the seventh leading cause of death in Alaska in 1998 with 65 deaths, down from 79 deaths in 1997 and 64 deaths in 1996. There is no significant difference between the age-adjusted death rates for diabetes between whites and Natives.

Human Immunodeficiency Virus (HIV) infections

Deaths to Alaskans from human immunodeficiency virus (HIV) infections decreased to 6 deaths in 1998 from 10 deaths in 1997. Total deaths from HIV in 1998 is the lowest since before 1986 when the first deaths from HIV were recorded in Alaska.

EXTERNAL CAUSES OF DEATH

External causes of death, i.e. violent deaths, include four causes: accidents, suicide, homicide, and "other". "Other" includes violent deaths for which the manner of death is unknown; it could be accidental, suicide, or homicide. Young people are more likely to die of external causes than older people. While 17.0 percent of all deaths were from external causes, 53.6 percent of all deaths to people from birth to age 44 were from external causes. Males experienced a crude death rate from external causes almost three times that of females (102.1 per 100,000 population compared to 37.5 for females). Natives experienced a crude death rate from external causes more than double that of whites (140.3 per 100,000 compared to 58.5 for whites). In the United States in 1998, 6.1 percent of all deaths were due to external causes compared to 17.0 percent of all deaths in Alaska.

Accidents and Adverse Effects

Accidents and adverse effects ranked as the third leading cause of death in Alaska in 1998 with 256 deaths, down from 268 accidental deaths in 1997. The age-adjusted death rate for accidents and adverse effects was 42.0 deaths per 100,000 population in 1998, down from 46.3 in 1997. Accidents and adverse effects have been the third leading cause of death in Alaska every year since 1986. From 1980 through 1985, accidents was the leading cause of death every year except for 1981 and 1982 when it was the second leading cause of death.

When Years of Life Lost (YLL) is calculated by cause of death, accidents and adverse effects results in the greatest number of Years of Life Lost (8,067 years).

From 1986 through to 1994, accidents and adverse effects was the leading cause of death for Alaska Natives every year except for 1989 and 1993 when it was the second leading cause of death. From 1995 through 1998, accidents and adverse effects has been the third leading cause of death for Alaska Natives. In 1998 accidents and adverse effects was the second leading cause of death for Alaska Native males.

Accidents and adverse effects was the leading cause of death for all age groups from one year up to 45 years. Accidents and adverse effects ranked as the fifth leading cause of death in the United States in 1998.

Suicide

Suicide ranked as the fifth leading cause of death in Alaska in 1998 with 131 deaths, up from 129 suicide deaths in 1997. The age-adjusted suicide death rate for 1998 was 23.7 deaths per 100,000 population, up from 21.7 in 1997.

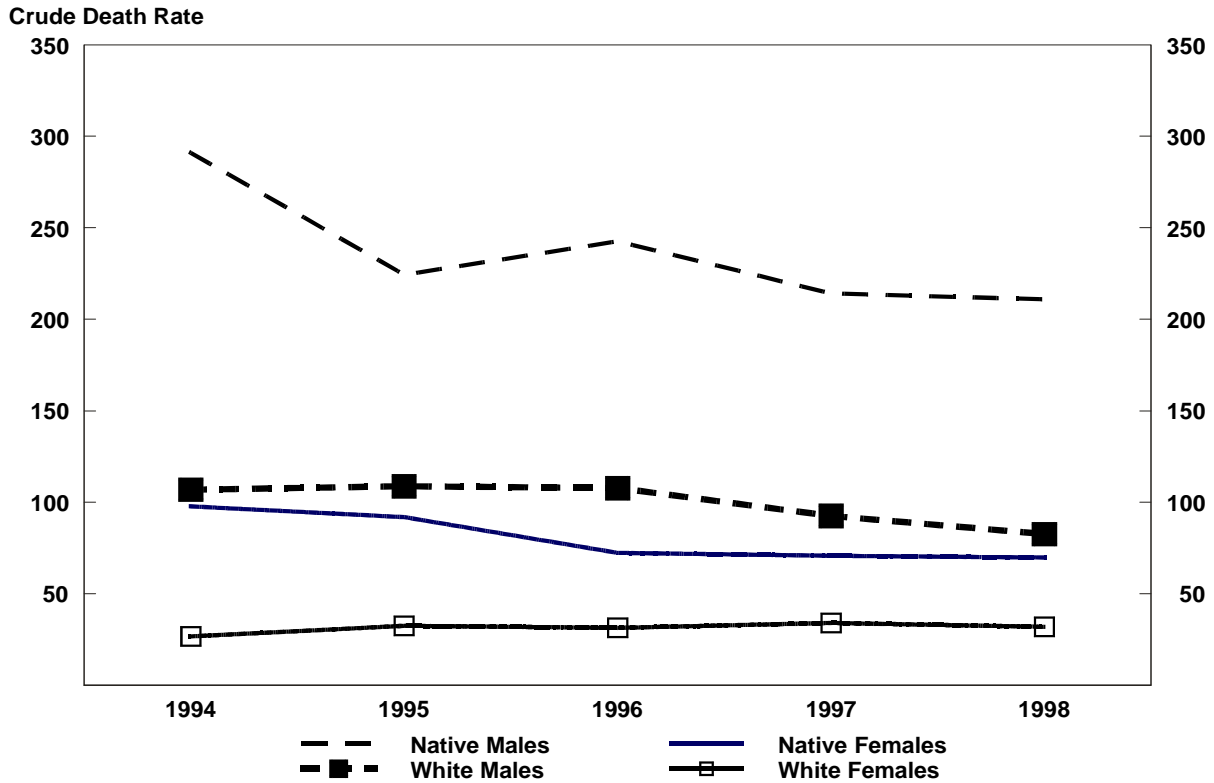
In the 15-24 year age group, there were 44 deaths from suicide, and in the 25-34 year age group there were 23 suicide deaths in 1998, making suicide the second leading cause of death in these age groups. Together, accidents and suicides accounted for 71.6 percent of all deaths in the 15-34 age group. After accidents and adverse effects, suicide results in the greatest number of years of life lost (3,696).

Homicide

Homicide and legal intervention decreased by 21.8 percent, from 55 deaths in 1997 to 48 deaths in 1998. Males made up 70.8 percent of homicide victims. Whites constituted 58.3 percent of homicide victims; Natives 31.3 percent. Eighty-five percent of all homicide victims were between the ages of 15 and 54.

Homicide was the tenth leading cause of death in 1998, down from the eighth leading cause of death in 1997. It was the fifth leading cause of death in years of life lost (1,512).

CHART 6.7 CRUDE DEATH RATES FOR EXTERNAL CAUSES OF DEATH FOR ALASKA WHITE AND NATIVE RESIDENTS BY SEX, 1992-1998



SPECIFIC DEATH RATES BY CAUSE OF DEATH

Tables 6.8A through 6.10B provide numbers and percentages of deaths by cause for specific populations (by sex, race, and age). Sex-specific, race-specific, sex/race-specific, and age-specific rates are also given. In cases where there were fewer than three deaths, the rates have been blanked out since rates based on small numbers are not meaningful.

TABLE 6.8A ALASKA RESIDENT DEATHS, PERCENT, AND SEX-SPECIFIC DEATH RATES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN THE UNITED STATES, 1998

15 LEADING CAUSES OF DEATH IN THE U.S. BY RANK	MALE			FEMALE			TOTAL
	DEATHS			DEATHS			
	NO.	PCT	RATE	NO.	PCT	RATE	
1 HEART DISEASE	368	24.4	114.6	192	17.9	64.9	560
2 CANCER	353	23.4	109.9	295	27.5	99.7	648
3 CEREBROVASCULAR DISEASES	62	4.1	19.3	91	8.5	30.8	153
4 CHRONIC OBSTRUCTIVE PULMONARY DISEASES	52	3.4	16.2	59	5.5	19.9	111
5 PNEUMONIA & INFLUENZA	23	1.5	7.2	30	2.8	10.1	53
6 ACCIDENTS & ADVERSE EFFECTS	187	12.4	58.2	69	6.4	23.3	256
7 DIABETES MELLITUS	30	2.0	9.3	35	3.3	11.8	65
8 SUICIDE	105	7.0	32.7	26	2.4	8.8	131
9 NEPHRITIS, NEPHROTIC SYNDROME & NEPHROSIS	8	0.5	2.5	4	0.4	1.4	12
10 CHRONIC LIVER DISEASE & CIRRHOSIS	30	2.0	9.3	20	1.9	6.8	50
11 SEPTICEMIA	10	0.7	3.1	5	0.5	1.7	15
12 ALZHEIMER'S DISEASE	6	0.4	1.9	8	0.7	2.7	14
13 HOMICIDE & LEGAL INTERVENTION	34	2.3	10.6	14	1.3	4.7	48
14 ATHEROSCLEROSIS	5	0.3	1.6	6	0.6	2.0	11
15 HYPERTENSION	2	0.1		5	0.5	1.7	7
ALL OTHER CAUSES	233	15.5	72.5	212	19.8	71.6	445
TOTAL	1,508	100.0	468.9	1,071	100.0	361.9	2,579

TABLE 6.8B ALASKA RESIDENT DEATHS, PERCENT, AND RACE-SPECIFIC DEATH RATES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN THE UNITED STATES, 1998

15 LEADING CAUSES OF DEATH IN THE U.S. BY RANK	WHITE			NATIVE			ALL OTHER			TOTAL
	DEATHS			DEATHS			DEATHS			
	NO.	PCT	RATE	NO.	PCT	RATE	NO.	PCT	RATE	
1 HEART DISEASE	442	24.2	96.9	89	14.8	86.1	29	19.5	50.5	560
2 CANCER	473	25.9	103.7	147	24.4	142.2	28	18.8	48.7	648
3 CEREBROVASCULAR DISEASES	105	5.7	23.0	33	5.5	31.9	15	10.1	26.1	153
4 CHRONIC OBSTRUCTIVE PULMONARY DISEASES	77	4.2	16.9	31	5.1	30.0	3	2.0	5.2	111
5 PNEUMONIA & INFLUENZA	33	1.8	7.2	17	2.8	16.4	3	2.0	5.2	53
6 ACCIDENTS & ADVERSE EFFECTS	161	8.8	35.3	79	13.1	76.4	16	10.7	27.9	256
7 DIABETES MELLITUS	47	2.6	10.3	10	1.7	9.7	8	5.4	13.9	65
8 SUICIDE	75	4.1	16.4	50	8.3	48.4	6	4.0	10.4	131
9 NEPHRITIS, NEPHROTIC SYNDROME & NEPHROSIS	9	0.5	2.0	2	0.3		1	0.7		12
10 CHRONIC LIVER DISEASE & CIRRHOSIS	36	2.0	7.9	13	2.2	12.6	1	0.7		50
11 SEPTICEMIA	7	0.4	1.5	5	0.8	4.8	3	2.0	5.2	15
12 ALZHEIMER'S DISEASE	14	0.8	3.1							14
13 HOMICIDE & LEGAL INTERVENTION	29	1.6	6.4	15	2.5	14.5	4	2.7	7.0	48
14 ATHEROSCLEROSIS	9	0.5	2.0	2	0.3					11
15 HYPERTENSION	5	0.3	1.1	1	0.2		1	0.7		7
ALL OTHER CAUSES	306	16.7	67.1	108	17.9	104.5	31	20.8	54.0	445
TOTAL	1,828	100.0	400.6	602	100.0	577.6	149	100.0	254.1	2,579

TABLE 6.8C ALASKA RESIDENT DEATHS, PERCENT, AND SEX-SPECIFIC DEATH RATES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN ALASKA, 1998

15 LEADING CAUSES OF DEATH IN ALASKA BY RANK	MALE			FEMALE			TOTAL
	DEATHS			DEATHS			
	NO.	PCT	RATE	NO.	PCT	RATE	
01 CANCER	353	23.4	109.9	295	27.5	99.7	648
02 HEART DISEASE	368	24.4	114.6	192	17.9	64.9	560
03 ACCIDENTS & ADVERSE EFFECTS	187	12.4	58.2	69	6.4	23.3	256
04 CEREBROVASCULAR DISEASES	62	4.1	19.3	91	8.5	30.8	153
05 SUICIDE	105	7.0	32.7	26	2.4	8.8	131
06 CHRONIC OBSTRUCTIVE PULMONARY DISEASES	52	3.4	16.2	59	5.5	19.9	111
07 DIABETES MELLITUS	30	2.0	9.3	35	3.3	11.8	65
08 PNEUMONIA & INFLUENZA	23	1.5	7.2	30	2.8	10.1	53
09 CHRONIC LIVER DISEASE & CIRRHOSIS	30	2.0	9.3	20	1.9	6.8	50
10 HOMICIDE & LEGAL INTERVENTION	34	2.3	10.6	14	1.3	4.7	48
11 CONGENITAL ANOMALIES	14	0.9	4.4	12	1.1	4.1	26
12 SIDS	15	1.0	4.7	3	0.3	1.0	18
13 PERINATAL PERIOD CONDITIONS	11	0.7	3.4	5	0.5	1.7	16
14 SEPTICEMIA	10	0.7	3.1	5	0.5	1.7	15
15 ALZHEIMER'S DISEASE	6	0.4	1.9	8	0.7	2.7	14
ALL OTHER CAUSES	208	13.8	64.8	207	19.3	70.0	415
TOTAL	1,508	100.0	469.5	1,071	100.0	361.9	2,579

TABLE 6.8D RESIDENT DEATHS, PERCENT, AND RACE-SPECIFIC DEATH RATES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN ALASKA, 1998

15 LEADING CAUSES OF DEATH IN ALASKA BY RANK	WHITE			NATIVE			ALL OTHER			TOTAL
	DEATHS			DEATHS			DEATHS			
	NO.	PCT	RATE	NO.	PCT	RATE	NO.	PCT	RATE	
01 CANCER	473	25.9	103.7	147	24.4	142.2	28	18.8	48.7	648
02 HEART DISEASE	442	24.2	96.9	89	14.8	86.1	29	19.5	50.5	560
03 ACCIDENTS & ADVERSE EFFECTS	160	8.8	35.1	80	13.3	77.4	16	10.7	27.9	256
04 CEREBROVASCULAR DISEASES	105	5.7	23.0	33	5.5	31.9	15	10.1	26.1	153
05 SUICIDE	75	4.1	16.4	50	8.3	48.4	6	4.0	10.4	131
06 CHRONIC OBSTRUCTIVE PULMONARY DISEASES	77	4.2	16.9	31	5.1	30.0	3	2.0	5.2	111
07 DIABETES MELLITUS	47	2.6	10.3	10	1.7	9.7	8	5.4	13.9	65
08 PNEUMONIA & INFLUENZA	33	1.8	7.2	17	2.8	16.4	3	2.0	5.2	53
09 CHRONIC LIVER DISEASE & CIRRHOSIS	36	2.0	7.9	13	2.2	12.6	1	0.7		50
10 HOMICIDE & LEGAL INTERVENTION	28	1.5	6.1	15	2.5	14.5	5	3.4	8.7	48
11 CONGENITAL ANOMALIES	21	1.1	4.6	4	0.7	3.9	1	0.7		26
12 SIDS	9	0.5	2.0	5	0.8	4.8	4	2.7	7.0	18
13 PERINATAL PERIOD CONDITIONS	9	0.5	2.0	5	0.8	4.8	2	1.3		16
14 SEPTICEMIA	7	0.4	1.5	5	0.8	4.8	3	2.0	5.2	15
15 ALZHEIMER'S DISEASE	14	0.8	3.1							14
ALL OTHER CAUSES	291	15.9	63.8	99	16.4	95.8	25	16.8	43.5	415
TOTAL	1,827	100.0	400.4	603	100.0	583.4	149	100.0	252.4	2,579

TABLE 6.9A RESIDENT DEATHS, PERCENT, AND RACE/SEX-SPECIFIC DEATH RATES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN THE UNITED STATES, ALASKA, 1998

15 LEADING CAUSES OF DEATH IN THE U.S. BY RANK	WHITE						NATIVE						ALL OTHER					
	MALE			FEMALE			MALE			FEMALE			MALE			FEMALE		
	No.	%	Rate	No.	%	Rate	No.	%	Rate	No.	%	Rate	No.	%	Rate	No.	%	Rate
1 HEART DISEASE	300	27.8	125.1	142	19.0	65.6	52	15.1	100.6	37	14.3	71.6	16	19.0	53.8	13	20.0	46.9
2 CANCER	264	24.5	110.1	209	27.9	96.5	76	22.0	147.0	71	27.5	137.4	13	15.5	43.7	15	23.1	54.1
3 CEREBROVASCULAR DISEASES	45	4.2	18.8	60	8.0	27.7	10	2.9	19.3	23	8.9	44.5	7	8.3	23.5	8	12.3	28.9
4 CHRONIC OBSTRUCTIVE PULMONARY DISEASES	35	3.2	14.6	42	5.6	19.4	17	4.9	32.9	14	5.4	27.1				3	4.6	10.8
5 PNEUMONIA & INFLUENZA	16	1.5	6.7	17	2.3	7.9	6	1.7	11.6	11	4.3	21.3	1	1.2		2	3.1	
6 ACCIDENTS & ADVERSE EFFECTS	116	10.8	48.4	44	5.9	20.3	58	16.8	112.2	22	8.5	42.6	13	15.5	43.7	3	4.6	10.8
7 DIABETES MELLITUS	22	2.0	9.2	25	3.3	11.5	5	1.4	9.7	5	1.9	9.7	3	3.6	10.1	5	7.7	18.0
8 SUICIDE	62	5.7	25.9	13	1.7	6.0	38	11.0	73.5	12	4.7	23.2	5	6.0	16.8	1	1.5	
9 NEPHRITIS, NEPHROTIC SYNDROME & NEPHROSIS	6	0.6	2.5	3	0.4	1.4	2	0.6								1	1.5	
10 CHRONIC LIVER DISEASE & CIRRHOSIS	24	2.2	10.0	12	1.6	5.5	6	1.7	11.6	7	2.7	13.6				1	1.5	
11 SEPTICEMIA	4	0.4	1.7	3	0.4	1.4	3	0.9	5.8	2	0.8		3	3.6	10.1			
12 ALZHEIMER'S DISEASE	6	0.6	2.5	8	1.1	3.7												
13 HOMICIDE & LEGAL INTERVENTION	18	1.7	7.5	10	1.3	4.6	13	3.8	25.1	2	0.8		3	3.6	10.1	2	3.1	

TABLE 6.9B RESIDENT DEATHS, PERCENT, AND RACE/SEX-SPECIFIC DEATH RATES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN ALASKA, 1998

15 LEADING CAUSES OF DEATH IN ALASKA BY RANK	WHITE						NATIVE						ALL OTHER					
	MALE			FEMALE			MALE			FEMALE			MALE			FEMALE		
	No.	%	Rate	No.	%	Rate	No.	%	Rate	No.	%	Rate	No.	%	Rate	No.	%	Rate
01 CANCER	264	24.5	110.1	209	27.9	96.5	76	22.0	147.0	71	27.5	137.4	13	15.5	43.7	15	23.1	54.1
02 HEART DISEASE	300	27.8	125.1	142	19.0	65.6	52	15.1	100.6	37	14.3	71.6	16	19.0	53.8	13	20.0	46.9
03 ACCIDENTS & ADVERSE EFFECTS	116	10.8	48.4	44	5.9	20.3	58	16.8	112.2	22	8.5	42.6	13	15.5	43.7	3	4.6	10.8
04 CEREBROVASCULAR DISEASES	45	4.2	18.8	60	8.0	27.7	10	2.9	19.3	23	8.9	44.5	7	8.3	23.5	8	12.3	28.9
05 SUICIDE	62	5.7	25.9	13	1.7	6.0	38	11.0	73.5	12	4.7	23.2	5	6.0	16.8	1	1.5	
06 CHRONIC OBSTRUCTIVE PULMONARY DISEASES	35	3.2	14.6	42	5.6	19.4	17	4.9	32.9	14	5.4	27.1				3	4.6	10.8
07 DIABETES MELLITUS	22	2.0	9.2	25	3.3	11.5	5	1.4	9.7	5	1.9	9.7	3	3.6	10.1	5	7.7	18.0
08 PNEUMONIA & INFLUENZA	16	1.5	6.7	17	2.3	7.9	6	1.7	11.6	11	4.3	21.3	1	1.2		2	3.1	
09 CHRONIC LIVER DISEASE & CIRRHOSIS	24	2.2	10.0	12	1.6	5.5	6	1.7	11.6	7	2.7	13.6				1	1.5	
10 HOMICIDE & LEGAL INTERVENTION	18	1.7	7.5	10	1.3	4.6	13	3.8	25.1	2	0.8		3	3.6	10.1	2	3.1	
11 CONGENITAL ANOMALIES	12	1.1	5.0	9	1.2	4.2	2	0.6		2	0.8					1	1.5	
12 SIDS	7	0.6	2.9	2	0.3		5	1.4	9.7				3	3.6	10.1	1	1.5	

TABLE 6.10A RESIDENT DEATHS, PERCENT, AND AGE-SPECIFIC DEATH RATES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN THE UNITED STATES, ALASKA, 1998

15 LEADING CAUSES OF DEATH IN THE U.S. BY RANK	DECEDENT'S AGE											
	0-4			5-14			15-24			25-34		
	No.	%	Rate	No.	%	Rate	No.	%	Rate	No.	%	Rate
1 HEART DISEASE	2	2.7		1	3.2		1	0.9		8	7.7	9.0
2 CANCER				4	12.9	3.6	1	0.9		5	4.8	5.7
3 CEREBROVASCULAR DISEASES										1	1.0	
4 CHRONIC OBSTRUCTIVE PULMONARY DISEASES							1	0.9				
5 PNEUMONIA & INFLUENZA										2	1.9	
6 ACCIDENTS & ADVERSE EFFECTS	7	9.5	13.5	18	58.1	16.1	45	42.1	55.0	39	37.5	44.1
7 DIABETES MELLITUS										1	1.0	
8 SUICIDE							44	41.1	53.8	23	22.1	26.0
9 NEPHRITIS, NEPHROTIC SYNDROME & NEPHROSIS												
10 CHRONIC LIVER DISEASE & CIRRHOSIS							1	0.9				
11 SEPTICEMIA	1	1.4										
12 ALZHEIMER'S DISEASE												
13 HOMICIDE & LEGAL INTERVENTION	2	2.7		1	3.2		6	5.6	7.3	11	10.6	12.4
14 ATHEROSCLEROSIS												
15 HYPERTENSION												
ALL OTHER CAUSES	62	83.8	119.5	7	22.6	6.3	8	7.5	9.8	14	13.5	15.8
TOTAL	74	100.0	133.0	31	100.0	26.0	107	100.0	125.9	104	100.0	113.1

TABLE 6.10A CONTINUED

15 LEADING CAUSES OF DEATH IN THE U.S. BY RANK	DECEDENT'S AGE											
	45-54			55-64			65-74			75-84		
	No.	%	Rate	No.	%	Rate	No.	%	Rate	No.	%	Rate
1 HEART DISEASE	77	23.8	85.9	83	22.5	202.6	122	22.9	583.1	147	28.8	1,557.0
2 CANCER	91	28.2	101.5	146	39.6	356.3	190	35.7	908.2	127	24.9	1,345.0
3 CEREBROVASCULAR DISEASES	12	3.7	13.4	18	4.9	43.9	24	4.5	114.7	49	9.6	519.1
4 CHRONIC OBSTRUCTIVE PULMONARY DISEASES	10	3.1	11.2	13	3.5	31.7	41	7.7	196.0	33	6.5	349.6
5 PNEUMONIA & INFLUENZA	2	0.6		4	1.1	9.8	8	1.5	38.2	16	3.1	169.5
6 ACCIDENTS & ADVERSE EFFECTS	41	12.7	45.8	15	4.1	36.6	10	1.9	47.8	11	2.2	116.5
7 DIABETES MELLITUS	6	1.9	6.7	16	4.3	39.0	22	4.1	105.2	9	1.8	95.3
8 SUICIDE	24	7.4	26.8	15	4.1	36.6	5	0.9	23.9	2	0.4	
9 NEPHRITIS, NEPHROTIC SYNDROME & NEPHROSIS	2	0.6					4	0.8	19.1	5	1.0	53.0
10 CHRONIC LIVER DISEASE & CIRRHOSIS	16	5.0	17.9	13	3.5	31.7	6	1.1	28.7	4	0.8	42.4
11 SEPTICEMIA	1	0.3					5	0.9	23.9	5	1.0	53.0
12 ALZHEIMER'S DISEASE				1	0.3		2	0.4		7	1.4	74.2
13 HOMICIDE & LEGAL INTERVENTION	10	3.1	11.2	1	0.3		2	0.4		1	0.2	
14 ATHEROSCLEROSIS	1	0.3		1	0.3		4	0.8	19.1	3	0.6	31.8
15 HYPERTENSION							3	0.6	14.3	3	0.6	31.8
ALL OTHER CAUSES	30	9.3	33.5	43	11.7	104.9	84	15.8	401.5	89	17.4	942.8
TOTAL	323	100.0	353.7	369	100.0	893.2	532	100.0	2,524.0	511	100.0	5,381.0

TABLE 6.10B RESIDENT DEATHS, PERCENT, AND AGE-SPECIFIC DEATH RATES FOR THE FIFTEEN LEADING CAUSES OF DEATH IN ALASKA, 1998

15 LEADING CAUSES OF DEATH IN ALASKA BY RANK	DECEDENT'S AGE											
	0-4			5-14			15-24			25-34		
	No.	%	Rate	No.	%	Rate	No.	%	Rate	No.	%	Rate
01 CANCER				4	12.9	3.6	1	0.9		5	4.8	5.7
02 HEART DISEASE	2	2.7		1	3.2		1	0.9		8	7.7	9.0
03 ACCIDENTS & ADVERSE EFFECTS	7	9.5	13.5	18	58.1	16.1	45	42.1	55.0	39	37.5	44.1
04 CEREBROVASCULAR DISEASES										1	1.0	
05 SUICIDE							44	41.1	53.8	23	22.1	26.0
06 CHRONIC OBSTRUCTIVE PULMONARY DISEASES							1	0.9				
07 DIABETES MELLITUS										1	1.0	
08 PNEUMONIA & INFLUENZA										2	1.9	
09 CHRONIC LIVER DISEASE & CIRRHOSIS							1	0.9				
10 HOMICIDE & LEGAL INTERVENTION	2	2.7		1	3.2		6	5.6	7.3	11	10.6	12.4
11 CONGENITAL ANOMALIES	14	18.9	27.0	1	3.2		1	0.9		1	1.0	
12 SIDS	18	24.3	34.7									
13 PERINATAL PERIOD CONDITIONS	16	21.6	30.8									
14 SEPTICEMIA	1	1.4										
15 ALZHEIMER'S DISEASE												
ALL OTHER CAUSES	14	18.9	27.0	6	19.4	5.4	7	6.5	8.6	13	12.5	14.7
TOTAL	74	100.0	133.0	31	100.0	25.1	107	100.0	124.7	104	100.0	111.9

TABLE 6.10B CONTINUED

15 LEADING CAUSES OF DEATH IN ALASKA BY RANK	DECEDENT'S AGE											
	45-54			55-64			65-74			75-84		
	No.	%	Rate	No.	%	Rate	No.	%	Rate	No.	%	Rate
01 CANCER	91	28.2	101.5	146	39.6	356.3	190	35.7	908.2	127	24.9	1,345.3
02 HEART DISEASE	77	23.8	85.9	83	22.5	202.6	122	22.9	583.1	147	28.8	1,557.2
03 ACCIDENTS & ADVERSE EFFECTS	41	12.7	45.8	15	4.1	36.6	10	1.9	47.8	11	2.2	116.5
04 CEREBROVASCULAR DISEASES	12	3.7	13.4	18	4.9	43.9	24	4.5	114.7	49	9.6	519.1
05 SUICIDE	24	7.4	26.8	15	4.1	36.6	5	0.9	23.9	2	0.4	
06 CHRONIC OBSTRUCTIVE PULMONARY DISEASES	10	3.1	11.2	13	3.5	31.7	41	7.7	196.0	33	6.5	349.6
07 DIABETES MELLITUS	6	1.9	6.7	16	4.3	39.0	22	4.1	105.2	9	1.8	95.3
08 PNEUMONIA & INFLUENZA	2	0.6		4	1.1	9.8	8	1.5	38.2	16	3.1	169.5
09 CHRONIC LIVER DISEASE & CIRRHOSIS	16	5.0	17.9	13	3.5	31.7	6	1.1	28.7	4	0.8	42.4
10 HOMICIDE & LEGAL INTERVENTION	10	3.1	11.2	1	0.3		2	0.4		1	0.2	
11 CONGENITAL ANOMALIES				2	0.5		1	0.2		4	0.8	42.4
12 SIDS												
13 PERINATAL PERIOD CONDITIONS												
14 SEPTICEMIA	1	0.3					5	0.9	23.9	5	1.0	53.0
15 ALZHEIMER'S DISEASE				1	0.3		2	0.4		7	1.4	74.2
ALL OTHER CAUSES	33	10.2	36.8	42	11.4	102.5	94	17.7	449.3	96	18.8	1,016.9
TOTAL	323	100.0	357.1	369	100.0	890.7	532	100.0	2,519.0	511	100.0	5,381.4

SELECTED CAUSES OF DEATH BY RESIDENCE

TABLE 6.11A RESIDENT DEATHS BY SELECTED CAUSES OF DEATH AND BY CENSUS AREA OF DECEDENT'S RESIDENCE, NATIVES ONLY, ALASKA, 1998

CAUSE OF DEATH	CENSUS AREA OF DECEDENT'S RESIDENCE													
	ALE	ALW	ANC	BET	BBB	DIL	FBK	HNS	JUN	KPB	KET	KOD	LKP	MSB
TUBERCULOSIS														
SEPTICEMIA						1	1							
VIRAL HEPATITIS														1
CANCER	5	3	26	13		4	2	1	5	5	6	4	3	1
DIABETES MELLITUS			2	2		1						1		
NUTRITIONAL DEFICIENCIES														
MENINGITIS													1	
HEART DISEASE	1	2	17	12	1	5	2		3	4	2	2	1	
HYPERTENSION										1				
CEREBROVASCULAR DISEASES	1		13	5		2	2						1	1
ATHEROSCLEROSIS												1		
ACUTE BRONCHITIS & BRONCHIOLITIS														
PNEUMONIA & INFLUENZA	1		1	2			3		1	1	1		1	
CHRONIC OBSTRUCTIVE PULMONARY DISEASES			2	4	5	2	1	1			2			
APPENDICITIS				1										
HERNIA OF ABDOMINAL CAVITY OR INTESTINAL OBSTRUCTION WITHOUT MENTION OF HERNIA														
CHRONIC LIVER DISEASE & CIRRHOSIS			1											
DISORDERS OF GALLBLADDER			1											
NEPHRITIS, NEPHROTIC SYNDROME & NEPHROSIS									1					
INFECTIONS OF KIDNEY														
CONGENITAL ANOMALIES			2											
PERINATAL PERIOD CONDITIONS				1		1								
SIDS			2	1								1		
ALCOHOL USE/ABUSE	1		9	4	1		5				2			1
ALL OTHER INTERNAL CAUSES			19	7		2	2		2	4	2	2	1	
MOTOR VEHICLE ACCIDENTS			6	1		1			3				1	1
OTHER ACCIDENTS		1	11	7		2	4		6	2		1		1
SUICIDES				11		1	3		1			1	2	1
HOMICIDES			4				2							2
TOTAL	9	8	118	72	4	21	27	1	22	17	15	13	11	9

Continued ⇔

TABLE 6.11A CONTINUED

CAUSE OF DEATH	CENSUS AREA OF DECEDENT'S RESIDENCE													TOTAL
	NOM	NSB	NAB	POW	SIT	SHA	SEF	VAL	WAH	WRP	YAK	YUK		
TUBERCULOSIS								2						2
SEPTICEMIA					1	1		1						5
VIRAL HEPATITIS														1
CANCER	17	6	4	2	4	1	1	7	11	2	1	13		147
DIABETES MELLITUS			2	1								1		10
NUTRITIONAL DEFICIENCIES									1					1
MENINGITIS														1
HEART DISEASE	4	4	1	2	1	2		5	5	3	1	6		86
HYPERTENSION														1
CEREBROVASCULAR DISEASES	2	1	1			1		1	1			1		33
ATHEROSCLEROSIS												1		2
ACUTE BRONCHITIS & BRONCHIOLITIS	1													1
PNEUMONIA & INFLUENZA	1						3	1	1					17
CHRONIC OBSTRUCTIVE PULMONARY DISEASES	4	1					1	4	2			2		31
APPENDICITIS														1
HERNIA OF ABDOMINAL CAVITY OR INTESTINAL OBSTRUCTION WITHOUT MENTION OF HERNIA							2							2
CHRONIC LIVER DISEASE & CIRRHOSIS					1									2
DISORDERS OF GALLBLADDER		1												2
NEPHRITIS, NEPHROTIC SYNDROME & NEPHROSIS								1						2
INFECTIONS OF KIDNEY									1					1
CONGENITAL ANOMALIES	2													4
PERINATAL PERIOD CONDITIONS		1						1	1					5
SIDS								1						5
ALCOHOL USE/ABUSE	4	4	1				1	2	1			2		38
ALL OTHER INTERNAL CAUSES	8	5	2		1		1	1	2			4		65
MOTOR VEHICLE ACCIDENTS	1			1			1	1						17
OTHER ACCIDENTS	9	1		1			2	1	3			4		56
SUICIDES	7	3		1		1		7	4			7		50
HOMICIDES	3					1		1				2		15
TOTAL	63	27	11	8	8	7	12	37	33	5	2	43		603

TABLE 6.11B RESIDENT DEATHS BY SELECTED CAUSES OF DEATH AND BY CENSUS AREA OF DECEDENT'S RESIDENCE, NON-NATIVES ONLY, ALASKA, 1998

CAUSE OF DEATH	CENSUS AREA OF DECEDENT'S RESIDENCE													
	ALE	ALW	ANC	BET	BBB	DEN	DIL	FBK	HNS	JUN	KPB	KET	KOD	LKP
MENINGOCOCCAL INFECTION												1		
SEPTICEMIA			6					1		1		1		
VIRAL HEPATITIS			2					1			1	1		
HIV INFECTION			4					1			1			
CANCER			219		1	1		58	6	29	69	13	7	2
BENIGN NEOPLASMS			4					3		1	1	1	2	
DIABETES MELLITUS			26					7		2	6	2		
NUTRITIONAL DEFICIENCIES												1	1	
ANEMIAS			1							1	1			
HEART DISEASE			196			1		64	4	23	47	24	4	2
HYPERTENSION			2					1			1	2		
CEREBROVASCULAR DISEASES			61					8	1	8	10	7	2	
ATHEROSCLEROSIS			4								2			
PNEUMONIA & INFLUENZA			10					5		3	7	3		
CHRONIC OBSTRUCTIVE PULMONARY DISEASES	1		34				1	11		2	10	3		
ULCER OF STOMACH & DUODENUM			2											
HERNIA OF ABDOMINAL CAVITY OR INTESTINAL OBSTRUCTION WITHOUT MENTION OF HERNIA			1					2		1				
CHRONIC LIVER DISEASE & CIRRHOSIS			5							1	4			
DISORDERS OF GALLBLADDER			1					1			1			
NEPHRITIS, NEPHROTIC SYNDROME & NEPHROSIS			6							1		1		
INFECTIONS OF KIDNEY												1		
HYPERPLASIA OF PROSTATE														
CONGENITAL ANOMALIES		1	8	1				2		1	4			
PERINATAL PERIOD CONDITIONS		1	7							1			1	
SIDS			7					1			3		1	
ALCOHOL USE/ABUSE			22					12		3	2	2		
ALZHEIMER'S DISEASE			10					1						
ALL OTHER INTERNAL CAUSES			110			2	1	25		11	22	10	5	
MOTOR VEHICLE ACCIDENTS			16					11		1	5		1	
OTHER ACCIDENTS			50	1			3	17	3	4	12	2	8	
SUICIDES		1	31	1	1			21		4	5	1	3	
HOMICIDES			20	1				8			2			
ALL OTHER EXTERNAL CAUSES			2										1	
TOTAL	1	3	867	4	2	4	5	261	14	98	217	75	36	4

Continued→

TABLE 611B CONTINUED

CAUSE OF DEATH	CENSUS AREA OF DECEDENT'S RESIDENCE													TOTAL			
	MSB	NOM	NSB	NAB	POW	SIT	SHA	SEF	VAL	WRP	YAK	YUK	UNK				
MENINGOCOCCAL INFECTION																	1
SEPTICEMIA	1																10
VIRAL HEPATITIS	1																6
HIV INFECTION																	6
CANCER	58	2		1	2	3	3	3	10	9	2	3					501
BENIGN NEOPLASMS																	12
DIABETES MELLITUS	5				1			1	2	2	1						55
NUTRITIONAL DEFICIENCIES	1										2						5
ANEMIAS	1																4
HEART DISEASE	67	2	1	1	2	11	3	2	4	8			4				470
HYPERTENSION																	6
CEREBROVASCULAR DISEASES	12					3	1	1	6								120
ATHEROSCLEROSIS	1								2								9
PNEUMONIA & INFLUENZA						5		1	1	1							36
CHRONIC OBSTRUCTIVE PULMONARY DISEASES	5			1	1	2		2	3	2		2					80
ULCER OF STOMACH & DUODENUM	3	1									1						7
HERNIA OF ABDOMINAL CAVITY OR INTESTINAL OBSTRUCTION WITHOUT MENTION OF HERNIA	1																5
CHRONIC LIVER DISEASE & CIRRHOSIS	1																11
DISORDERS OF GALLBLADDER																	3
NEPHRITIS, NEPHROTIC SYNDROME & NEPHROSIS					1				1								10
INFECTIONS OF KIDNEY																	1
HYPERPLASIA OF PROSTATE	1																1
CONGENITAL ANOMALIES	3				1					1							22
PERINATAL PERIOD CONDITIONS								1									11
SIDS	1																13
ALCOHOL USE/ABUSE	1	1				1	1									1	46
ALZHEIMER'S DISEASE	3																14
ALL OTHER INTERNAL CAUSES	17		1		1	3		3	4	3							218
MOTOR VEHICLE ACCIDENTS	7				1	1		3	5								51
OTHER ACCIDENTS	14					2	2		4	1			1				124
SUICIDES	6		1		1	2	1	2									81
HOMICIDES	1							1									33
ALL OTHER EXTERNAL CAUSES	1																4
TOTAL	212	6	3	3	11	33	14	20	42	28	2	10	1				1,976

DETAILED CAUSES OF DEATH

TABLE 6.12 RESIDENT DEATHS BY DETAILED CAUSES OF DEATH AND BY CENSUS REA OF DECEDENT'S RESIDENCE, ALASKA, 1998

CAUSE OF DEATH	CENSUS AREA OF DECEDENT'S RESIDENCE													
	ALE	ALW	ANC	BET	BBB	DEN	DIL	FBK	HNS	JUN	KPB	KET	KODL	KPMSB
TUBERCULOSIS														
SEPTICEMIA			6				1	2		1		1		1
HIV INFECTION			4					1				1		
CANCER: LIP, ORAL CAVITY & PHARYNX		1	3				1	1						1
CANCER: DIGESTIVE ORGANS & PERITONEUM	1		58	6			3	13		9	19	2	2	1
CANCER: RESPIRATORY & INTRATHORACIC ORGANS	3	1	74	4		1		17	5	9	27	8	4	2
CANCER: BREAST	1	1	19					9		2	7	2	1	
CANCER: GENITAL ORGANS			22	2				7		4	6			
CANCER: URINARY ORGANS			11					3		1	1	2	1	
CANCER: OTHER & UNSPECIFIED SITES			34		1			6		4	6	2	2	
CANCER: LEUKEMIA			7					3		2	3	1		1
CANCER: OTHER LYMPHATIC & HEMATOPOIETIC TISSUES			17	1				1	2	3	5	2	1	
DIABETES MELLITUS			28	2			1	7		2	6	2	1	
RHEUMATIC FEVER & RHEUMATIC HEART DISEASE			3	1				1			2			
HYPERTENSIVE HEART DISEASE			11	1				2				1		1
HYPERTENSIVE HEART & RENAL DISEASE			1									1		1
ACUTE MYOCARDIAL INFARCTION	1	1	44	1		1	1	20	1	5	12	5	1	23
OTHER ACUTE & SUBACUTE FORMS OF ISCHEMIC HEART DISEASE			1											
OTHER FORMS OF CHRONIC ISCHEMIC HEART DISEASE		1	70	3				22	2	6	20	11	4	2
OTHER HEART DISEASE			83	6	1		4	21	1	15	17	8	1	
ALCOHOL USE/ABUSE	1		31	4	1			17		3	2	4		
CEREBROVASCULAR DISEASES	1		74	5			2	10	1	8	10	7	2	1
ATHEROSCLEROSIS			4								2		1	
ACUTE BRONCHITIS & BRONCHIOLITIS														
PNEUMONIA & INFLUENZA	1		11	2				8		4	8	4		1
EMPHYSEMA			4					4		1				
ASTHMA	1		3									2		
OTHER CHRONIC OBSTRUCTIVE PULMONARY DISEASES		2	31	5	2		2	8		1	10	3		5
CHRONIC LIVER DISEASE & CIRRHOSIS			6							1	4			1
NEPHRITIS, NEPHROTIC SYNDROME & NEPHROSIS			6							2		1		
CONGENITAL ANOMALIES		1	10	1				2		1	4			3
PERINATAL PERIOD CONDITIONS		1	7	1			1			1			1	
SIDS			9	1				1			3		2	1
ALZHEIMER'S DISEASE			10					1						3
MOTOR VEHICLE ACCIDENTS			22	1			1	11		4	5		1	1
ALL OTHER ACCIDENTS & ADVERSE EFFECTS		1	61	8			5	21	3	10	14	2	9	15
SUICIDE		1	31	12	1		1	24		5	5	1	4	2
HOMICIDE & LEGAL INTERVENTION			24	1				10			2			3
ALL OTHER CAUSES			145	8		2	3	35		16	33	18	11	2
TOTAL	10	11	985	76	6	4	26	288	15	120	234	90	49	15

Continued ⇨

TABLE 6.12 CONTINUED

CAUSE OF DEATH	CENSUS AREA OF DECEDENT'S RESIDENCE											TOTAL		
	NOM	NSB	NAB	POW	SIT	SHA	SEF	VAL	WAH	WRP	YAK		YUK	UNK
TUBERCULOSIS									2					2
SEPTICEMIA							1	1		1				15
HIV INFECTION														6
CANCER: LIP, ORAL CAVITY & PHARYNX	1							1		1				14
CANCER: DIGESTIVE ORGANS & PERITONEUM	10	2	8	2	2	1		2	2	1	1	10		168
CANCER: RESPIRATORY & INTRATHORACIC ORGANS	5	1	2	1	2	2		3	3	3	2	5		203
CANCER: BREAST		1	1			1								49
CANCER: GENITAL ORGANS				1	1	1	1	1		2		1		54
CANCER: URINARY ORGANS	1	1					1	2	1					29
CANCER: OTHER & UNSPECIFIED SITES		1	1					1		1	2			67
CANCER: LEUKEMIA	2					1	1				1			24
CANCER: OTHER LYMPHATIC & HEMATOPOIETIC TISSUES				2		1		2		1				40
DIABETES MELLITUS				3	1	1	2	2		1		1		65
RHEUMATIC FEVER & RHEUMATIC HEART DISEASE		2												10
HYPERTENSIVE HEART DISEASE					1									17
HYPERTENSIVE HEART & RENAL DISEASE														3
ACUTE MYOCARDIAL INFARCTION	2	1	2		6	2		2	2	2		3		138
OTHER ACUTE & SUBACUTE FORMS OF ISCHEMIC HEART DISEASE														1
OTHER FORMS OF CHRONIC ISCHEMIC HEART DISEASE	2	1	1		2	2	2			5	1	3		177
OTHER HEART DISEASE	2	1	3	3	4		2	2	3	4		4		210
ALCOHOL USE/ABUSE	5	4	1	1	1	1		1	2			2	1	84
CEREBROVASCULAR DISEASES	2	1	1	1	3	1	2	6	1			1		153
ATHEROSCLEROSIS								2				1		11
ACUTE BRONCHITIS & BRONCHIOLITIS	1													1
PNEUMONIA & INFLUENZA	1		1		5		1	4	1	1				53
EMPHYSEMA		1					1	1				1		13
ASTHMA			1		1		1							9
OTHER CHRONIC OBSTRUCTIVE PULMONARY DISEASES	4		2	1	1			3	4	2		3		89
CHRONIC LIVER DISEASE & CIRRHOSIS						1								13
NEPHRITIS, NEPHROTIC SYNDROME & NEPHROSIS				1			1		1					12
CONGENITAL ANOMALIES	2			1				1						26
PERINATAL PERIOD CONDITIONS		1	1			1			1					16
SIDS									1					18
ALZHEIMER'S DISEASE														14
MOTOR VEHICLE ACCIDENTS	1			1	2		3	6	1					68
ALL OTHER ACCIDENTS & ADVERSE EFFECTS	9	1	3		3	2		6	1	1		5		180
SUICIDE	7	4	4	1	3	1	3		7			7		131
HOMICIDE & LEGAL INTERVENTION	3					1	1		1			2		48
ALL OTHER CAUSES	9	7	4	3	3	1	3	7	1	6		4		348
TOTAL	69	30	36	22	41	22	27	54	37	33	4	53	1	2,579

TABLE 6.13 RESIDENT DEATHS BY DETAILED CAUSES OF DEATH AND BY NATIVE REGIONAL CORPORATION OF DECEDENT'S RESIDENCE, ALASKA, 1998

CAUSE OF DEATH	NATIVE REGIONAL CORP OF DECEDENT'S RESIDENCE												TOTAL	
	AHT	ALE	ARC	BER	BRI	CAL	CHU	COO	DOY	KON	NAN	SEA		UNK
TUBERCULOSIS						2								2
SEPTICEMIA					1	1		7	3			3		15
HIV INFECTION							5	1						6
CANCER: LIP, ORAL CAVITY & PHARYNX		1		1	2		1	7	1			1		14
CANCER: DIGESTIVE ORGANS & PERITONEUM		1	2	10	4	8	4	88	23	2	8	18		168
CANCER: RESPIRATORY & INTRATHORACIC ORGANS	1	4	1	5	1	7	5	117	23	5	2	32		203
CANCER: BREAST		2	1					30	9	1	1	5		49
CANCER: GENITAL ORGANS						2	1	33	9			9		54
CANCER: URINARY ORGANS	2		1	1		1		16	4	1		3		29
CANCER: OTHER & UNSPECIFIED SITES			1		1	1	2	44	7	2	1	8		67
CANCER: LEUKEMIA				2	1			12	4			5		24
CANCER: OTHER LYMPHATIC & HEMATOPOIETIC TISSUES	2					1		24	1	1		11		40
DIABETES MELLITUS					1	2	2	39	10	1		10		65
RHEUMATIC FEVER & RHEUMATIC HEART DISEASE			2			1		6	1					10
HYPERTENSIVE HEART DISEASE					1	1		11	2			2		17
HYPERTENSIVE HEART & RENAL DISEASE								2				1		3
ACUTE MYOCARDIAL INFARCTION	1	2	1	2	1	3	3	77	24	1	2	21		138
OTHER ACUTE & SUBACUTE FORMS OF ISCHEMIC HEART DISEASE								1						1
OTHER FORMS OF CHRONIC ISCHEMIC HEART DISEASE		1	1	2	2	3	3	104	27	4	1	29		177
OTHER HEART DISEASE	2		1	2	5	9	1	124	27	1	3	35		210
ALCOHOL USE/ABUSE		1	4	5	1	6	1	35	19		1	10	1	84
CEREBROVASCULAR DISEASES		1	1	2	3	6	8	95	13	2	1	21		153
ATHEROSCLEROSIS	1						2	6	1	1				11
ACUTE BRONCHITIS & BRONCHIOLITIS				1										1
PNEUMONIA & INFLUENZA	1	1		1	1	3	6	16	9		1	14		53
EMPHYSEMA			1				1	4	6			1		13
ASTHMA		1						3	1		1	3		9
OTHER CHRONIC OBSTRUCTIVE PULMONARY DISEASES		2		4	4	9	4	45	11		2	8		89
CHRONIC LIVER DISEASE & CIRRHOSIS								11				2		13
NEPHRITIS, NEPHROTIC SYNDROME & NEPHROSIS						1		6	1			4		12
CONGENITAL ANOMALIES		1		2		1	1	17	2			2		26
PERINATAL PERIOD CONDITIONS		1	1		1	2		7		1	1	2		16
SIDS						2		13	1	2				18
ALZHEIMER'S DISEASE								13	1					14
MOTOR VEHICLE ACCIDENTS	1			1	2	2	5	35	14	1		7		68
ALL OTHER ACCIDENTS & ADVERSE EFFECTS	2	1	1	9	5	9	10	84	26	9	3	21		180
SUICIDE		1	4	7	4	19	1	42	34	4	4	11		131
HOMICIDE & LEGAL INTERVENTION				3		2		29	13			1		48
ALL OTHER CAUSES	4		7	9	5	9	5	203	44	11	4	47		348
TOTAL	17	21	30	69	46	113	66	1,411	372	50	36	347	1	2,579

TABLE 6.14 RESIDENT DEATHS BY DETAILED CAUSES OF DEATH, BY SEX AND RACE, ALASKA, 1998

CAUSE OF DEATH	SEX		RACE					TOTAL
	MALE	FEMALE	WHITE	NATIVE	AFRICAN/AM	ASIAN/PI	UNKN	
TUBERCULOSIS	1	1		2				2
SEPTICEMIA	10	5	7	5	2	1		15
HIV INFECTION	5	1	5		1			6
CANCER: LIP, ORAL CAVITY & PHARYNX	10	4	8	5	1			14
CANCER: DIGESTIVE ORGANS & PERITONEUM	101	67	94	63	6	4	1	168
CANCER: RESPIRATORY & INTRATHORACIC ORGANS	115	88	158	38	5	2		203
CANCER: BREAST		49	36	9	2	2		49
CANCER: GENITAL ORGANS	30	24	47	7				54
CANCER: URINARY ORGANS	20	9	24	5				29
CANCER: OTHER & UNSPECIFIED SITES	35	32	55	9		2	1	67
CANCER: LEUKEMIA	16	8	19	5				24
CANCER: OTHER LYMPHATIC & HEMATOPOIETIC TISSUES	26	14	32	6		2		40
DIABETES MELLITUS	30	35	47	10	5	3		65
RHEUMATIC FEVER & RHEUMATIC HEART DISEASE	3	7	5	5				10
HYPERTENSIVE HEART DISEASE	10	7	12	2	2	1		17
HYPERTENSIVE HEART & RENAL DISEASE	1	2	3					3
ACUTE MYOCARDIAL INFARCTION	103	35	109	19	3	5	2	138
OTHER ACUTE & SUBACUTE FORMS OF ISCHEMIC HEART DISEASE	1		1					1
OTHER FORMS OF CHRONIC ISCHEMIC HEART DISEASE	126	51	151	18	2	5	1	177
OTHER HEART DISEASE	121	89	160	42	4	4		210
ALCOHOL USE/ABUSE	52	32	43	38	3			84
CEREBROVASCULAR DISEASES	62	91	105	33	4	10	1	153
ATHEROSCLEROSIS	5	6	9	2				11
ACUTE BRONCHITIS & BRONCHIOLITIS	1			1				1
PNEUMONIA & INFLUENZA	23	30	33	17	1	2		53
EMPHYSEMA	7	6	9	3	1			13
ASTHMA	2	7	8			1		9
OTHER CHRONIC OBSTRUCTIVE PULMONARY DISEASES	43	46	60	28		1		89
CHRONIC LIVER DISEASE & CIRRHOSIS	8	5	10	2		1		13
NEPHRITIS, NEPHROTIC SYNDROME & NEPHROSIS	8	4	9	2		1		12
CONGENITAL ANOMALIES	14	12	21	4			1	26
PERINATAL PERIOD CONDITIONS	11	5	9	5		2		16
SIDS	15	3	9	5	4			18
ALZHEIMER'S DISEASE	6	8	14					14
MOTOR VEHICLE ACCIDENTS	50	18	43	17	1	7		68
ALL OTHER ACCIDENTS & ADVERSE EFFECTS	131	49	116	56	5	3		180
SUICIDE	105	26	75	50	2	4		131
HOMICIDE & LEGAL INTERVENTION	34	14	28	15	2	3		48
ALL OTHER CAUSES	167	181	253	75	12	6	2	348
TOTAL	1,508	1,071	1,827	603	68	72	9	2,579

TABLE 6.15 RESIDENT DEATHS BY DETAILED CAUSES OF DEATH AND AGE, ALASKA, 1998

CAUSE OF DEATH	DECEDENT'S AGE GROUP										TOTAL
	<5	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
TUBERCULOSIS								1	1		2
SEPTICEMIA	1					1		5	5	3	15
HIV INFECTION				1	2	1	2				6
CANCER: LIP, ORAL CAVITY & PHARYNX					2	2	2	5	2	1	14
CANCER: DIGESTIVE ORGANS & PERITONEUM				2	13	24	40	54	24	11	168
CANCER: RESPIRATORY & INTRATHORACIC ORGANS				1	8	23	52	74	39	6	203
CANCER: BREAST					9	8	15	7	6	4	49
CANCER: GENITAL ORGANS				1	1	8	8	18	13	5	54
CANCER: URINARY ORGANS			1		1	4	6	5	12		29
CANCER: OTHER & UNSPECIFIED SITES		2			6	11	16	14	16	2	67
CANCER: LEUKEMIA		2		1	3	3	2	3	7	3	24
CANCER: OTHER LYMPHATIC & HEMATOPOIETIC TISSUES					5	8	5	10	8	4	40
DIABETES MELLITUS				1	1	6	16	22	9	10	65
RHEUMATIC FEVER & RHEUMATIC HEART DISEASE						1	2	4	2	1	10
HYPERTENSIVE HEART DISEASE				1	2	4	3	2	3	2	17
HYPERTENSIVE HEART & RENAL DISEASE								1	1	1	3
ACUTE MYOCARDIAL INFARCTION			1	1	2	28	21	33	39	13	138
OTHER ACUTE & SUBACUTE FORMS OF ISCHEMIC HEART DISEASE									1		1
OTHER FORMS OF CHRONIC ISCHEMIC HEART DISEASE					10	23	28	45	53	18	177
OTHER HEART DISEASE	2	1		6	7	18	29	37	48	62	210
ALCOHOL USE/ABUSE			1	7	25	21	18	9	1	2	84
CEREBROVASCULAR DISEASES				1	11	12	18	24	49	38	153
ATHEROSCLEROSIS						1	1	4	3	2	11
ACUTE BRONCHITIS & BRONCHIOLITIS	1										1
PNEUMONIA & INFLUENZA				2	3	2	4	8	16	18	53
EMPHYSEMA						1	3	6	1	2	13
ASTHMA			1			5		2		1	9
OTHER CHRONIC OBSTRUCTIVE PULMONARY DISEASES						4	10	33	32	10	89
CHRONIC LIVER DISEASE & CIRRHOSIS					2	4	1	2	4		13
NEPHRITIS, NEPHROTIC SYNDROME & NEPHROSIS						2		4	5	1	12
CONGENITAL ANOMALIES	14	1	1	1			2	1	4	2	26
PERINATAL PERIOD CONDITIONS	16										16
SIDS	18										18
ALZHEIMER'S DISEASE							1	2	7	4	14
MOTOR VEHICLE ACCIDENTS	4	6	17	13	12	11	3	2			68
ALL OTHER ACCIDENTS & ADVERSE EFFECTS	3	12	28	23	43	29	12	8	11	11	180
SUICIDE			44	23	18	24	15	5	2		131
HOMICIDE & LEGAL INTERVENTION	2	1	6	11	14	10	1	2	1		48
ALL OTHER CAUSES	13	6	7	8	26	24	33	80	86	65	348
TOTAL	74	31	107	104	226	323	369	532	511	302	2,579

EXTERNAL CAUSE OF DEATH TABLES

Tables 6.16A through 6.20 show external causes of death in greater detail. Unlike previous tables which include resident deaths occurring both in Alaska and out of state, these tables include only deaths occurring in Alaska, both resident and non-resident. In 1998, there were 44 non-resident violent deaths in Alaska and 417 violent deaths occurring in Alaska to Alaska residents.

External Causes of Death by Location

Tables 6.16A and 6.16B show manner of death by census area and Native regional corporation of residence and race.

TABLE 6.16A EXTERNAL CAUSES OF DEATH BY CENSUS AREA AND RACE, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998

CENSUS AREA OF DECEDENT'S RESIDENCE	MANNER OF DEATH														TOTAL
	ACCIDENT				SUICIDE				HOMICIDE				OTHER		
	WHI	NAT	OTH	SUB-TOTAL	WHI	NAT	OTH	SUB-TOTAL	WHI	NAT	OTH	SUB-TOTAL	WHI	SUB-TOTAL	
ALEUTIANS WEST		1		1	1			1							2
ANCHORAGE	55	17	9	81	26		3	29	13	4	3	20	2	2	132
BETHEL	1	9		10	1	11		12	1			1			23
BRISTOL BAY					1			1							1
DILLINGHAM	3	3		6		1		1							7
FAIRBANKS NSB	21	4	5	30	19	3	2	24	7	2		9			63
HAINES BOROUGH	3			3											3
JUNEAU BOROUGH	4	9	1	14	4	1		5						1	19
KENAI PENINSULA	15	2		17	5			5	2			2			24
KETCHIKAN	1			1	1			1							2
KODIAK ISLAND	9	1		10	2	1		3					1	1	14
LAKE-PENINSULA		1		1		2		2							3
MATANUSKA-SUSITNA	21	2		23	6	1		7	1	2		3	1	1	34
NOME		12		12		7		7		3		3			22
NORTH SLOPE		2		2		3	1	4							6
NORTHWEST ARCTIC		3		3		4		4							7
SITKA BOROUGH	2	2		4	2	1		3							7
SKGWAY-HOONAH-ANG	2			2	1			1	1			1			4
SE FAIRBANKS	3			3	2	1		3		1		1			7
VALDEZ-CORDOVA	9	3		12											12
WADE HAMPTON		4		4		6		6		1		1			11
WRANGELL-PETERSBG	1			1											1
YUKON-KOYUKUK		4		4		7		7		2		2			13
OUTSIDE ALASKA	36		2	38	4		1	5	1			1			44
TOTAL	186	79	17	282	75	49	7	131	26	15	3	44	4	4	461

TABLE 6.16B EXTERNAL CAUSES OF DEATH BY NATIVE REGIONAL CORPORATION OF RESIDENCE AND RACE, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998

NATIVE REGIONAL CORPORATION OF DECEDENT'S RESIDENCE	MANNER OF DEATH															TOTAL
	ACCIDENT				SUICIDE				HOMICIDE				OTHER			
	WHI	NAT	OTH	SUB-TOTAL	WHI	NAT	OTH	SUB-TOTAL	WHI	NAT	OTH	SUB-TOTAL	WHI	SUB-TOTAL		
AHTNA INC	1	2		3											3	
ALEUT CORP		1		1	1				1						2	
ARCTIC SLO		2		2		3	1	4							6	
BERING STS		12		12		7		7		3		3			22	
BRISTOL BY	3	4		7	1	3		4							11	
CALISTA CP	1	13		14	1	17		18	1	1		2			34	
CHUGACH	12	3		15	1			1							16	
COOK INLET	87	19	9	115	36	1	3	40	16	6	3	25	3	3	183	
DOYON LTD	24	8	5	37	21	11	2	34	7	5		12			83	
KONIAG INC	9	1		10	2	1		3					1	1	14	
NANA CORP		3		3		4		4							7	
SEALASKA	13	11	1	25	8	2		10	1			1			36	
OUTSIDE AK	36		2	38	4		1	5	1			1			44	
TOTAL	186	79	17	282	75	49	7	131	26	15	3	44	4	4	461	

Tables 6.17A and 6.17B show external causes of death by census area and Native regional corporation of death and race.

TABLE 6.17A EXTERNAL DEATHS BY THE CENSUS AREA WHERE DEATH OCCURRED, MANNER OF DEATH AND RACE, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998

CENSUS AREA OF DEATH	MANNER OF DEATH															TOTAL
	ACCIDENT				SUICIDE				HOMICIDE				OTHER			
	WHI	NAT	OTH	SUB-TOTAL	WHI	NAT	OTH	SUB-TOTAL	WHI	NAT	OTH	SUB-TOTAL	WHI	SUB-TOTAL		
ALEUTIANS EAST								1	1						1	
ALEUTIANS WEST	6	1		7	1			1							8	
ANCHORAGE	59	17	7	83	30	2	3	35	13	6	3	22	1	1	141	
BETHEL	2	9		11			10	10	1			1			22	
BRISTOL BAY					1			1							1	
DENALI	10			10	1			1							11	
DILLINGHAM	2	2		4		1		1		1		1			6	
FAIRBANKS NSB	22	6	5	33	18	3	2	23	6	3		9			65	
HAINES BOROUGH	4			4											4	
JUNEAU BOROUGH	6	6	1	13	4	1		5							18	
KENAI PENINSULA	21	2	2	25	4			4	3			3			32	
KETCHIKAN	4			4	1			1							5	
KODIAK ISLAND	8	2		10	2	1		3					1	1	14	
LAKE-PENINSULA	7	1		8	1	2		3							11	
MATANUSKA-SUSITNA	17	2	1	20	6	1		7	1	1		2	2	2	31	
NOME		11		11			6	6		2		2			19	
NORTH SLOPE	1	2	1	4		3	1	4							8	
NORTHWEST ARCTIC	1	3		4		4		4							8	
SITKA BOROUGH	2	4		6	2	1		3							9	
SKGWAY-HOONAH-ANG	3	1		4	1			1	1			1			6	
SE FAIRBANKS					2	1		3	1			1			4	
VALDEZ-CORDOVA	9	3		12											12	
WADE HAMPTON		4		4		6		6		1		1			11	
WRANGELL-PETERSBG	1			1											1	
YAKUTAT	1			1											1	
YUKON-KOYUKUK		3		3	1	7		8		1		1			12	
TOTAL	186	79	17	282	75	49	7	131	26	15	3	44	4	4	461	

TABLE 6.17B EXTERNAL CAUSES OF DEATH BY NATIVE REGIONAL CORPORATION WHERE DEATH OCCURRED, MANNER OF DEATH AND RACE, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998

NATIVE REGIONAL CORPORATION OF DEATH	MANNER OF DEATH															TOTAL
	ACCIDENT				SUICIDE				HOMICIDE				OTHER			
	WHI	NAT	OTH	SUB-TOTAL	WHI	NAT	OTH	SUB-TOTAL	WHI	NAT	OTH	SUB-TOTAL	WHI	SUB-TOTAL		
AHTNA INC	6	1		7											7	
ALEUT CORP	6	1		7	1		1	2							9	
ARCTIC SLO	1	2	1	4		3	1	4							8	
BERING STS		11		11		6		6		2		2			19	
BRISTOL BY	8	3		11	2	3		5		1		1			17	
CALISTA CP	2	13		15		16		16	1	1		2			33	
CHUGACH	11	4		15											15	
COOK INLET	92	19	10	121	40	3	3	46	17	7	3	27	3	3	197	
DOYON LTD	29	9	5	43	22	11	2	35	7	4		11			89	
KONIAG INC	9	2		11	2	1		3					1	1	15	
NANA CORP	1	3		4		4		4							8	
SEALASKA	21	11	1	33	8	2		10	1			1			44	
TOTAL	186	79	17	282	75	49	7	131	26	15	3	44	4	4	461	

External Causes of Death by Method

Tables 6.18A, 6.18B and 6.20, and Chart 6.8 show external causes of death by cause. Firearms accounted for more than one-quarter of all deaths from external causes (123). The next greatest cause of external causes was motor vehicles with 81 deaths. Firearms accounted for 4 accidental deaths, 89 suicide deaths, and 30 homicide deaths. All motor vehicle deaths were accidental. ICD-9 codes for cause of death are shown in Appendix C, Table C.2.

TABLE 6.18A EXTERNAL CAUSES OF DEATH BY METHOD AND MANNER OF DEATH AND RACE, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998

METHOD OF DEATH	MANNER OF DEATH														TOTAL
	ACCIDENT				SUICIDE				HOMICIDE				OTHER		
	WHI	NAT	OTH	SUB-TOTAL	WHI	NAT	OTH	SUB-TOTAL	WHI	NAT	OTH	SUB-TOTAL	WHI	SUB-TOTAL	
RAILWAY			1	1											1
MOTOR VEHICLE	52	16	10	78											78
OTHER ROAD VEHICLE	1			1											1
DROWNING	28	21	3	52	1			1					1	1	54
WATER TRANSPORT	1	7		8											8
AIR TRANSPORT	24			24											24
MEDICAL															
COMPLICATIONS	2			2											2
FALLS	23	4		27											27
FIRE/BURNS	16	3		19											19
EXPOSURE	4	6		10											10
SUFFOCATION	6	3		9											9
POISONING	16	15		31	16		2	18					1	1	50
STRANGULATION					7	13	2	22					1	1	23
FIREARMS	3	1		4	49	36	3	88	23	5	1	29			121
CUTTING/PIERCING										4	1	5			5
CHILD BATTERING										1		1			1
OTHER ACCIDENTS	10	2	4	16											16
OTHER SUICIDES					2			2							2
OTHER HOMICIDES									3	5	1	9			9
OTHER EXTERNAL CAUSES													1	1	1
TOTAL	186	79	17	282	75	49	7	131	26	15	3	44	4	4	461

CHART 6.8 EXTERNAL CAUSES OF DEATH BY METHOD, ALASKA RESIDENTS AND NON-RESIDENTS, 1998

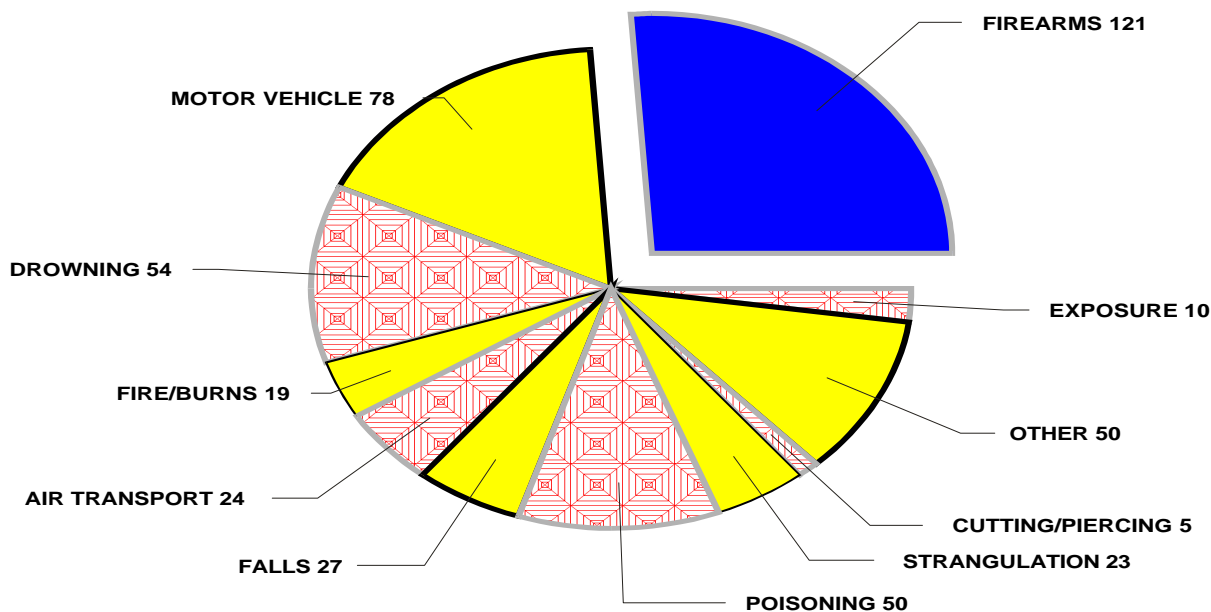


TABLE 6.18B EXTERNAL CAUSES OF DEATH BY METHOD AND MANNER OF DEATH AND SEX, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998

METHOD OF DEATH	MANNER OF DEATH												TOTAL	
	ACCIDENT MAL	FEM	SUB- TOTAL	SUICIDE MAL	FEM	SUB- TOTAL	HOMICIDE MAL	FEM	SUB- TOTAL	OTHER MAL	FEM	SUB- TOTAL		
RAILWAY	1		1											1
MOTOR VEHICLE	57	21	78											78
OTHER ROAD VEHICLE	1		1											1
DROWNING	47	5	52	1		1				1		1		54
WATER TRANSPORT	7	1	8											8
AIR TRANSPORT	21	3	24											24
MEDICAL COMPLICATIONS		2	2											2
FALLS	18	9	27											27
FIRE/BURNS	11	8	19											19
EXPOSURE	7	3	10											10
SUFFOCATION	3	6	9											9
POISONING	20	11	31	12	6	18					1	1		50
STRANGULATION				16	6	22					1	1		23
FIREARMS	3	1	4	76	12	88	22	7	29					121
CUTTING/PIERCING							5		5					5
CHILD BATTERING								1	1					1
OTHER ACCIDENTS	12	4	16											16
OTHER SUICIDES				2		2								2
OTHER HOMICIDES							5	4	9					9
OTHER EXTERNAL CAUSES										1		1		1
TOTAL	208	74	282	107	24	131	32	12	44	2	2	4		461

TABLE 6.19A EXTERNAL CAUSES OF DEATH BY MANNER OF DEATH, AGE AND RACE, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998

AGE OF DECEDENT	MANNER OF DEATH												TOTAL			
	ACCIDENT			SUB-TOTAL	SUICIDE			SUB-TOTAL	HOMICIDE			SUB-TOTAL		OTHER		
	WHI	NAT	OTH		WHI	NAT	OTH		WHI	NAT	OTH			WHI	TOTAL	
<1	1		1	2												2
1-4	2	3		5						1		1	1	1		7
5-14	10	4	2	16						1		1				17
15-24	34	11	5	50	16	28	1	45	2	3	1	6	2	2		103
25-34	30	12	4	46	9	12	3	24	7	1	1	9				79
35-44	36	29	1	66	9	7	1	17	6	7		13	1	1		97
45-54	33	10	1	44	22	1	1	24	8	1	1	10				78
55-64	15	3		18	12		1	13		1		1				32
65-74	11	2	1	14	5	1		6	2			2				22
75-84	6	4	1	11	2			2	1			1				14
85+	8	1	1	10												10
TOTAL	186	79	17	282	75	49	7	131	26	15	3	44	4	4		461

TABLE 6.19B EXTERNAL CAUSES OF DEATH BY MANNER OF DEATH, AGE AND SEX, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998

AGE OF DECEDENT	MANNER OF DEATH												TOTAL	
	ACCIDENT		SUB-TOTAL	SUICIDE		SUB-TOTAL	HOMICIDE		SUB-TOTAL	OTHER		SUB-TOTAL		
	MAL	FEM		MAL	FEM		MAL	FEM		MAL	FEM			
<1	1	1	2											2
1-4	4	1	5				1		1		1	1		7
5-14	9	7	16				1		1					17
15-24	42	8	50	37	8	45	6		6	2		2		103
25-34	37	9	46	20	4	24	6	3	9					79
35-44	57	9	66	12	5	17	7	6	13		1	1		97
45-54	33	11	44	19	5	24	9	1	10					78
55-64	13	5	18	11	2	13	1		1					32
65-74	4	10	14	6		6	1	1	2					22
75-84	6	5	11	2		2		1	1					14
85+	2	8	10											10
TOTAL	208	74	282	107	24	131	32	12	44	2	2	4		461

TABLE 6.20 EXTERNAL CAUSES OF DEATH BY MANNER AND METHOD OF DEATH AND AGE, RESIDENTS AND NON-RESIDENTS, ALASKA, 1998

MANNER AND METHOD OF DEATH	AGE OF DECEDENT										TOTAL	
	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84		85+
ACCIDENT												
RAILWAY							1					1
MOTOR VEHICLE		4	5	21	16	14	9	4	5			78
OTHER ROAD VEHICLE				1								1
DROWNING	2		2	17	5	17	6	1		2		52
WATER TRANSPORT			1	2	1	3	1					8
AIR TRANSPORT				1	4	8	7	4				24
MEDICAL COMPLICATIONS									1		1	2
FALLS			1	2	7		4	2		6	5	27
FIRE/BURNS		1	4	1	1	5	2	1	3	1		19
EXPOSURE			1	2	2	2		2			1	10
SUFFOCATION			1		1	3			3	1		9
POISONING				1	5	12	10	2			1	31
FIREARMS			1	1			2					4
OTHER ACCIDENTS				1	4	1	3	2	2	1	2	16
SUBTOTAL	2	5	16	50	46	66	44	18	14	11	10	282
SUICIDE												
DROWNING							1					1
POISONING				2	4	4	6	2				18
STRANGULATION				17	4		1					22
FIREARMS				26	15	13	16	11	5	2		88
OTHER SUICIDES					1				1			2
SUBTOTAL				45	24	17	24	13	6	2		131
HOMICIDE												
FIREARMS			1	4	8	6	9		1			29
CUTTING/PIERCING		1		2	1	1						5
CHILD BATTERING						1						1
OTHER HOMICIDES						5	1	1	1	1		9
SUBTOTAL		1	1	6	9	13	10	1	2	1		44
OTHER												
DROWNING				1								1
POISONING						1						1
STRANGULATION			1									1
OTHER EXTERNAL CAUSES				1								1
SUBTOTAL		1		2		1						4
TOTAL	2	7	17	103	79	97	78	32	22	14	10	461

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

MANNER OF DEATH	CAUSE OF DEATH	ICD-9 CODES
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.¹ 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*¹ 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.
OUZINKIE	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.
TOGIAK	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.

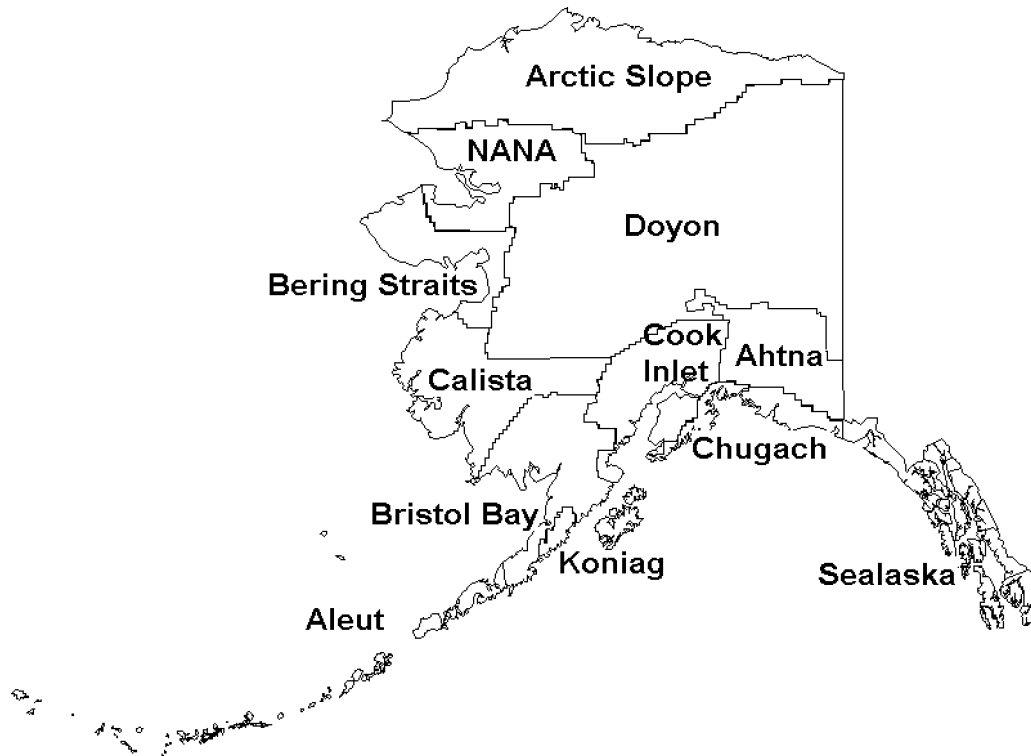
MAP H.1 CENSUS AREAS OF ALASKA



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.

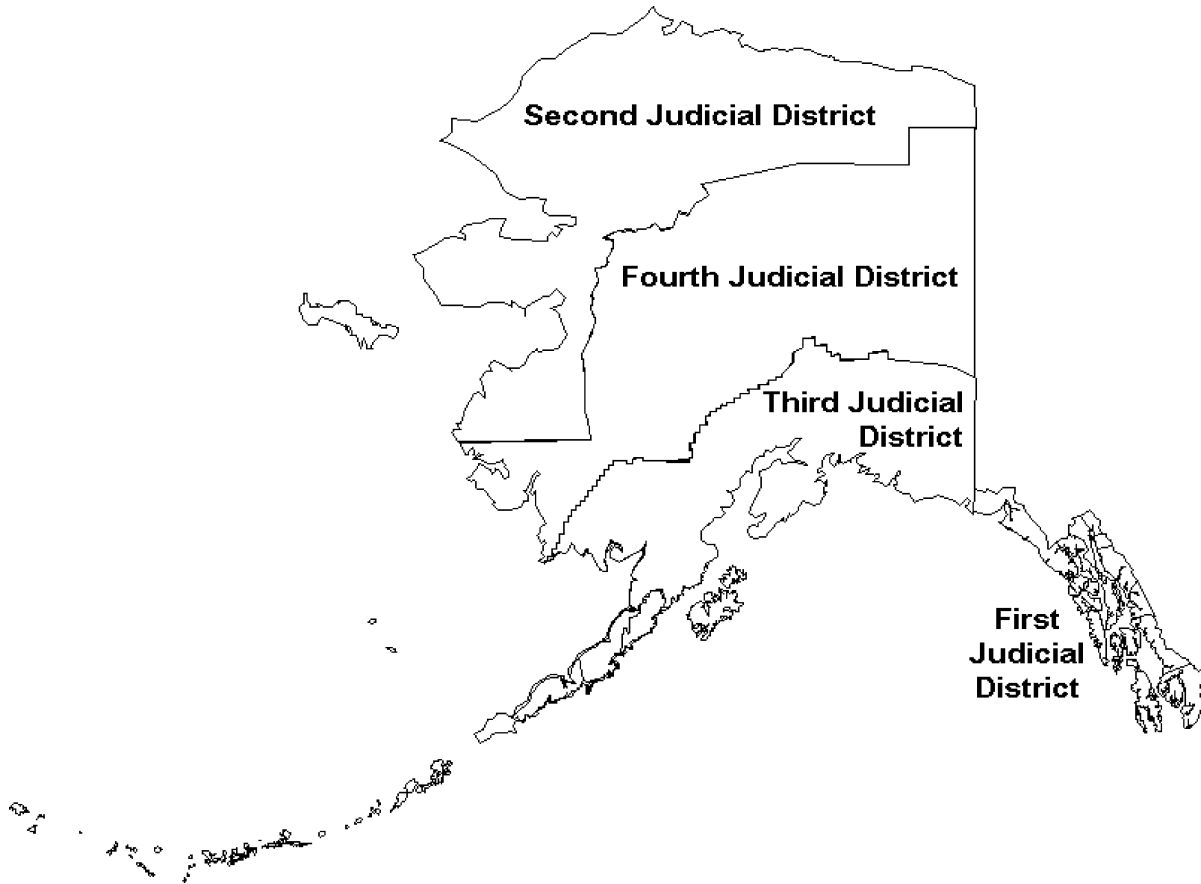
MAP H.2

ALASKA'S NATIVE REGIONAL CORPORATIONS



LOCATION	CENSUS AREA	NATIVE REGIONAL CORPORATION
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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>
Superior Courts Juneau Sitka Ketchikan	Superior Courts Barrow Nome Kotzebue	Superior Courts Anchorage Kodiak Dillingham Palmer Kenai	Superior Courts Bethel Fairbanks
District Courts Juneau Ketchikan	District Courts None	District Courts Anchorage Palmer Homer Valdez	District Court Fairbanks
Magistrates Angoon Pelican Craig Petersburg Haines Sitka Hoonah Skagway Juneau Wrangell Kake Yakutat Ketchikan	Magistrates Ambler/Shungnak Barrow Gambell/Savoonga Kiana/Selawik/Noorvik Kotzebue Nome	Magistrates Cordova St. Paul Is. Dillingham Sand Point Glennallen Seward Kenai Unalaska Kodiak Valdez Naknek Whittier Palmer	Magistrates Aniak Galena/ Bethel McGrath Chevak/ Healy/ Hooper Nenana/ Bay Tanana Delta Jct. Quinhagak Emmonak St. Mary's 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

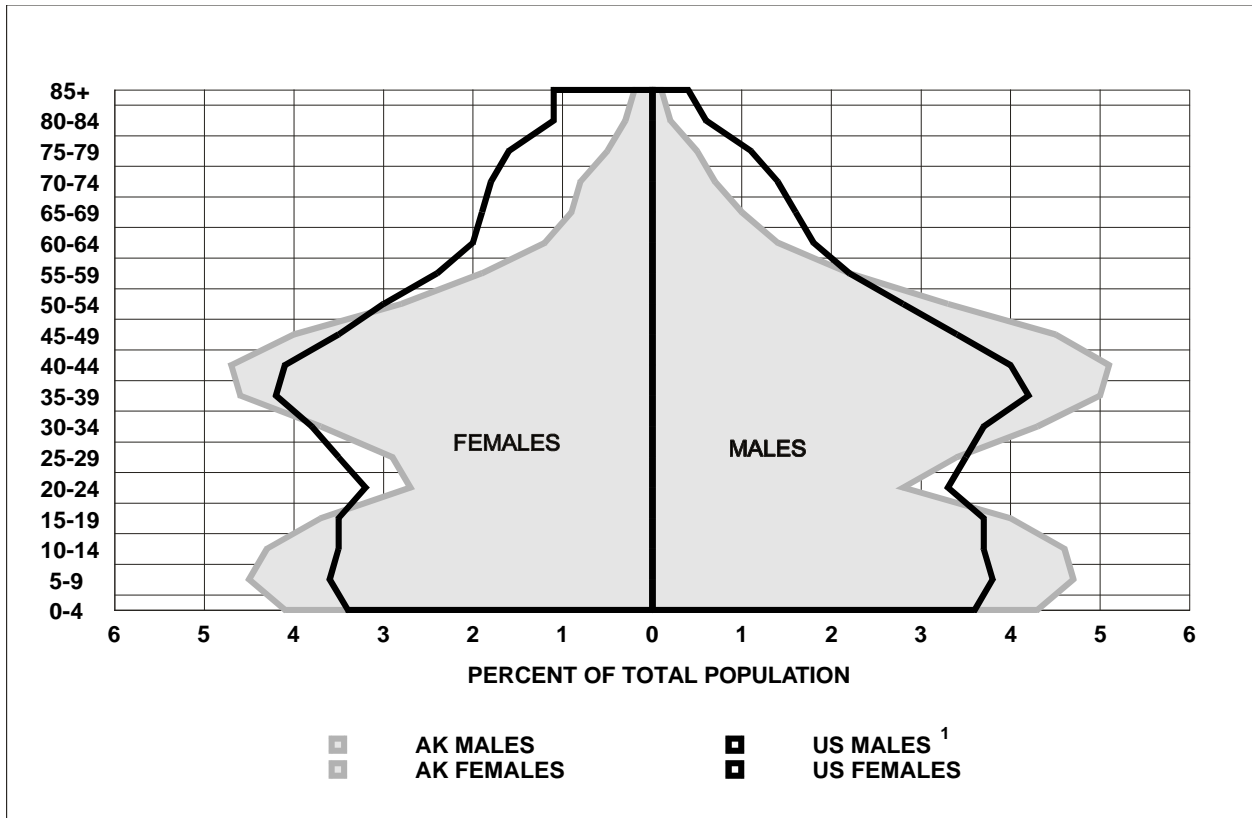
AGE GROUP	ALASKA			WHITE			NATIVE		
	TOTAL	MALE	FEMALE	TOTAL	MALE	MALE	TOTAL	MALE	FEMALE
0-4	57,959	29,677	28,282	39,461	20,348	19,113	13,159	6,615	6,544
5-9	54,904	28,119	26,785	39,106	20,131	18,975	11,258	5,730	5,528
10-14	48,765	25,345	23,420	35,485	18,445	17,040	9,188	4,698	4,490
15-19	38,548	20,059	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, 1998¹



¹ 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