

**Table 1.**

**Distribution of Alaska Native Women by Age, 1990 Census**

	<u>Alaska Native Women</u>	
	<i>Number</i>	<i>Percentage of Total</i>
Age (years)		
< 15	14,906	34.9%
15-19	3,464	8.1
20-24	3,423	8.0
25-29	3,974	9.3
30-34	3,770	8.8
35-39	3,093	9.3
40-44	2,264	5.3
45-49	1,801	4.2
50-54	1,398	3.3

55-59	1,300	3.0
60-64	1,012	2.4
> 65	2,250	5.3
Total	42,655	
Median Age (years)	24.4	
Sex Ratio (men per 100 women)	100.9	

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*Source: Lanier et al., 1994, 1996, p. 98.*

**Table 2.**

**Total Population and American Indian, Eskimo, or Aleut Persons for Alaska and the Alaska Native Regional Corporations, 1990 Census**

	<u>American Indian, Eskimo, or Aleut Persons</u>		
	<i>Total Population</i>	<i>Number of Alaska Natives</i>	<i>Percentage of Total</i>
Alaska	550,043	85,698	15.6%
Total, All ANRCs	548,574	84,489	15.4
Ahtna	3,089	592	19.2
Aleut	11,942	2,118	17.7
Arctic Slope	5,979	4,336	72.5
Bering Straits	8,288	6,148	74.2
Bristol Bay	7,028	4,639	66.0
Calista	19,447	16,775	86.3
Chugach	11,450	1,550	13.5
Cook Inlet	302,473	18,581	6.1

Doyon	91,936	10,793	11.7
Koniag	13,309	2,126	16.0
N.A.N.A.	6,113	5,209	85.2
Sealaska	67,520	11,622	17.2

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*Source: U.S. Census Bureau, 1998a.*

**Table 3.****Selected Social and Economic Characteristics for Alaska Native People by Alaska Native Regional Corporation, 1990 Census**

	<b>Percentage with High School Diploma or Higher</b>	<b>Percentage with Bachelor's Degree or Higher</b>	<b>Per Capita Income in 1989</b>	<b>Percentage Below Poverty Level</b>	<b>Percentage Unemployed (workers 16 and older)</b>
All ANRCs, all races <sup>a</sup>	86.6%	23.0%	\$17,610	9.0%	8.8%
All ANRCs, Alaska Natives <sup>b</sup>	63.1	4.1	7,816	27.0	24.5
Ahtna <sup>c</sup>	53.4	2.5	9,388	29.1	54.4
Aleut	54.5	2.7	14,179	12.1	10.7
Arctic Slope	54.6	2.7	12,120	10.9	23.2
Bering Straits	52.7	2.2	6,373	28.9	24.6
Bristol Bay	57.7	3.8	9,273	27.5	18.3

Calista	52.2	2.7	5,589	34.2	22.4
Chugach	65.6	1.9	15,637	9.5	16.2
Cook Inlet	74.6	6.5	10,682	20.4	20.5
Doyon	63.9	4.2	7,605	29.6	30.0
Koniag	63.1	4.6	12,237	10.8	14.6
N.A.N.A.	55.4	2.2	7,236	20.8	27.5
Sealaska	70.7	4.7	11,723	12.9	18.3

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*Sources:*

<sup>a</sup> *U.S. Census Bureau, 1998b.*

<sup>b</sup> *U.S. Census Bureau, 1992a.*

<sup>c</sup> *U.S. Census Bureau, 1992b.*

**Table 4.****Leading Causes of Death (Percentages) for Alaska Native Women**

	Year of Death:	1981-83	1984-86	1987-89	1990-92	1993-95	1996-98
	Column %	Column %	Column %	Column %	Column %	Column %	Column %
Diseases of Heart	16.0	14.6	19.6	16.3	14.2	16.2	
All Malignant Cancers	16.5	20.8	20.6	21.7	21.2	23.5	
Accidents and Adverse Effects	15.6	16.5	12.2	13.7	12.5	9.8	
Cerebrovascular Diseases	5.3	6.7	5.2	4.9	8.3	8.0	
Chronic Liver Disease and Cirrhosis	3.4	3.4	3.0	4.1	3.2	2.4	
Diabetes Mellitus	0.2	1.2	1.5	2.1	1.8	1.6	
All Other Causes	43.1	36.7	38.0	37.2	38.9	38.5	
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

*Alaska Native statistics derived from American Indian and Alaska Native deaths in state of Alaska.*

*Cause of death information from National Center for Health Statistics is categorized according to SEER site groups.*

*Source: SEER (August 2000 submission).*

**Table 5. Selected Cancer Incidence, Mortality and Cause-Specific Survival Rates for Women by Race/Ethnicity.**

	Incidence, 1992-1998		Mortality, 1992-1998		Survival, 1988-1997	
	Alaska		Alaska		Alaska	
	Native	White	Native	White	Native Percent	White Percent
All Cancers	400.1#	354.4	181.4#	138.0	55.3#	62.2
Digestive System	118.3#	57.0	62.1#	28.6	41.4	47.9
Esophagus	4.9#	1.6	4.2#	1.3	NA	17.9
Stomach	11.1#	4.0	7.6#	2.4	26.6a	29.8
Colon and Rectum	76.1#	36.3	30.4#	13.9	56.1	62.4
Liver & Intrahepatic Bile Duct	5.2#	2.0	3.8	2.1	54.6c	49.4
Gallbladder	2.2	1.3	2.0	0.8	45.5c	26.8
Pancreas	12.2	7.5	12.6#	7.0	0.0	5.8
Lung and Bronchus	57.8#	43.6	44.2#	34.6	14.7	19.7
Melanomas of the Skin	2.0#	12.3	1.1	1.7	71.4c	91.5
Breast	118.1	115.5	21.5	24.3	83.9	86.0
Cervix	7.5	8.1	3.1	2.4	75.7a	77.7
Corpus and uterus, NOS	10.3#	22.5	0.0	3.1	100.0#	86.4
Ovary	16.5	15.4	9.8	7.8	56.7a	52.6
Urinary Bladder	1.2#	7.9	1.1	1.7	NA	78.9
Non-Hodgkins Lymphoma	7.8#	13.0	3.1#	5.8	58.3b	60.1
Multiple Myeloma	3.0	3.4	2.7	2.3	50.0c	31.9
Leukemias	4.3#	8.4	2.7#	4.8	41.4c	49.4

Incidence and mortality rates are per 100,000 women, 1992-1998, age-adjusted to 1970 U.S. standard population.

Survival is presented as a 5-year cause-specific survival percentage for cases diagnosed 1988-1997.

Alaska Native = American Indian or Alaska Native in the state of Alaska.

# Rate or percentage is significantly different from White rate or percentage (p<0.05).

a = The survival rate is subject to large variability (standard error is 5% to 9.99%).

b = The survival rate is subject to large variability (standard error is 10% to 14.99%).

c = The survival rate is subject to large variability (standard error is 15% or greater).

NA = Statistic could not be calculated.

Incidence, mortality, and survival data include American Indian and Alaska Native women in the state of Alaska.

Cause of death information from National Center for Health Statistics is categorized according to SEER site groups.

Source: SEER (February 2001 submission).



**TABLE 6 . Incidence and Mortality Trends among Women for Selected Primary Cancers, 1992-1998.**

	Incidence, 1992-1998		Mortality, 1992-1998	
	Alaska Native EAPC	White EAPC	Alaska Native EAPC	White EAPC
All Cancers	4.3a	0.3	2.2	-0.8a
Digestive System	10.1#	-0.2	14.8#	-1.1a
Esophagus	NA	-0.7	NA	0.9
Stomach	5.4	-2.0a	26.3#,a	-2.7a
Colon and Rectum	7.9	-0.4	7.2	-1.9a
Liver & Intrahepatic Bile Duct	NA	5.5a	NA	2.2a
Gallbladder	NA	-4.3a	NA	-2.4a
Pancreas	12.5	-0.7a	19.1	-0.3
Lung and Bronchus	0.6	-0.1	-4.0	0.8a
Melanoma of the skin	NA	2.9a	NA	-0.3
Breast	7.9	1.1a	-0.3	-2.7a
Cervix	NA	-2.5a	NA	-1.8a
Corpus and Uterus, NOS	4.1	0.2	NA	-0.5
Ovary	-2.8	-1.2a	-2.6	-1.1a
Urinary Bladder	NA	-1.3a	NA	0.0
Non-Hodgkin's Lymphoma	NA	0.7	NA	0.9
Multiple Myeloma	NA	-1.6	NA	-0.3
Leukemias	-5.3	-0.6	NA	-0.8a

EAPC = Estimated annual percent change from 1992 through 1998.

NA = EAPC was not calculated due to zero cancers in at least one year.

# EAPC for Alaska Native women is significantly different from the EAPC for White women ( $p < 0.05$ ).

a = EAPC is significantly different from zero ( $p < 0.05$ ).

Incidence and mortality data include American Indian and Alaska Native women in the state of Alaska.

Source: SEER (August 2000 submission).

**Table 7.****Incidence Rates<sup>a</sup> for Selected Cancers Affecting Alaska Native Women by Ethnicity, 1969-1993**

<b>Cancer Type</b>	<b>Number of Cases: All Alaska Native</b>	<b>Rate: All Alaska Native</b>	<b>Rate: Aleut</b>	<b>Rate: Eskimo</b>	<b>Rate: American Indian</b>
All sites	1675	351.6	403.8	325.6	369.0
Colon/rectum	305	74.5	93.1	83.6	55.8
Breast	345	66.8	68.6	46.7	95.2
Lung/bronchus	186	43.1	69.5	37.3	41.2
Cervix	137	21.8	26.0	19.7	23.4
Kidney/renal pelvis	69	15.0	11.1	15.9	15.3
Oral cavity/pharynx	66	13.8	15.5	13.4	13.8
Ovary	65	12.5	15.4	10.0	14.8

Pancreas	50	11.8	15.7	10.9	11.3
Gallbladder	38	9.5	<sup>b</sup>	12.9	6.9
Stomach	42	8.8	<sup>b</sup>	9.7	8.2
Thyroid	50	7.1	9.4	4.8	9.6
Lymphoma	33	6.4	11.6	4.1	7.8
Uterus	32	6.0	<sup>b</sup>	4.0	10.2
Leukemia	23	3.5	<sup>b</sup>	2.7	5.0
Liver	15	2.9	<sup>b</sup>	2.5	3.3
Ill-defined/unspecified	92	22.5	18.4	22.5	23.2

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<sup>a</sup> Average annual rate per 100,000 women; age-adjusted to the 1970 U.S. standard population.

<sup>b</sup> Rates not reported for fewer than five cases.

Source: Lanier et al., 1996, pp. 29, 31.

**Table 8.****Cancer Incidence Rates<sup>a</sup> for Alaska Native (1989-1993) and U.S. White (1989-1992) Women and Ratio of Alaska Native to U.S. Rates**

	<b>Alaska Native Incidence Rate</b>	<b>U.S. White Incidence Rate</b>	<b>Alaska Native: U.S. White Ratio</b>
All sites	350.9	352.0	1.0
Gallbladder	3.7	1.3	2.8
Kidney/renal pelvis	13.7	6.3	2.2
Stomach	8.9	4.1	2.2
Colon/rectum	70.1	39.4	1.8 <sup>b</sup>
Cervix	14.5	8.0	1.8
Pancreas	12.9	7.7	1.7
Oral cavity/pharynx	9.9	6.1	1.6
Lung/bronchus	48.7	42.7	1.1

Ovary	16.0	15.9	1.0
Thyroid	6.9	6.9	1.0
Breast	86.5	113.0	0.8
Lymphomas	8.6	15.2	0.6
Leukemia	4.7	8.0	0.6
Uterus	10.2	22.5	0.5
Ill-defined/unspecified	11.2	8.9	1.3

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<sup>a</sup> Average annual rate per 100,000 women; age-adjusted to the 1970 U.S. standard population.

<sup>b</sup> Statistically significant ( $p < .05$ ).

Source: Adapted from Lanier et al., 1996, p. 20.

**Table 9.****Cancer Mortality Rates<sup>a</sup> for Alaska Native (1989-1993) and U.S. White (1988-1992) Women and Ratio of Alaska Native to U.S. White Rates**

	<b>Alaska Native Mortality Rate</b>	<b>U.S. White Mortality Rate</b>	<b>Alaska Native: U.S. White Ratio</b>
All sites	177.2	140.0	1.3
Lung/bronchus	43.0	31.8	1.4
Colon/rectum	24.0	15.3	1.6
Breast	20.7	27.0	0.8
Pancreas	11.6	6.9	1.7
Kidney/renal pelvis	11.2	2.3	4.9 <sup>b</sup>
Ovary	6.3	8.0	0.8
Cervix	5.8	2.5	2.3
Lymphomas	5.5	5.8	0.9

Stomach	5.1	2.7	1.9
Nasopharynx	4.1	0.1	41.0 <sup>c</sup>

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<sup>a</sup> Average annual rate per 100,000 women; age-adjusted to the 1970 U.S. standard population.

<sup>b</sup> Statistically significant ( $p < .05$ ).

<sup>c</sup> Statistically significant ( $p < .01$ ).

Source: Adapted from Lanier et al., 1996, p. 41.