



INDIAN HEALTH SERVICE

DEMOGRAPHIC STATISTICS SECTION OF REGIONAL DIFFERENCES IN INDIAN HEALTH 2000-2001

TABLES ONLY

**STATISTICS PROGRAM
OFFICE OF PROGRAM SUPPORT
OFFICE OF PUBLIC HEALTH
INDIAN HEALTH SERVICE
DEPARTMENT OF HEALTH AND HUMAN SERVICES**

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Table 3.1
 Number and Rate of Live Births
 Calendar Years 1996-1998

	<u>Number</u>	<u>Rate</u> ^{1/}
<i>U.S. All Races (1997)</i>	3,880,894	14.5
<i>All IHS Areas</i>	103,202	24.0
Aberdeen	8,389	29.5
Alaska	8,058	26.3
Albuquerque	5,102	21.9
Bemidji	6,495	26.3
Billings	4,243	25.8
California	8,075	21.8
Nashville	5,298	24.2
Navajo	13,739	21.7
Oklahoma	19,972	22.4
Phoenix	10,978	26.2
Portland	11,046	25.0
Tucson	1,807	21.9

^{1/} Rate per 1,000 population.

Table 3.2
Births of Low Weight as a Percent of Total Live Births
Calendar Years 1996-1998

	<u>Total Live Births</u> ^{1/}	<u>Number Low Weight</u> ^{2/}	<u>Percent Low Weight</u> ^{3/}
<i>U.S. All Races (1997)</i>	3,880,894	291,154	7.5
<i>All IHS Areas</i>	103,202	6,442	6.3
Aberdeen	8,389	498	5.9
Alaska	8,058	457	5.7
Albuquerque	5,102	342	6.8
Bemidji	6,495	345	5.3
Billings	4,243	300	7.1
California	8,075	461	5.7
Nashville	5,298	384	7.3
Navajo	13,739	860	6.3
Oklahoma	19,972	1,238	6.2
Phoenix	10,978	740	6.7
Portland	11,046	685	6.2
Tucson	1,807	132	7.3

^{1/} Includes 4,028 U.S. All Races live births and 256 American Indian/Alaska Native live births with birthweight not stated.

^{2/} Births of less than 2,500 grams.

^{3/} Percent low weight based on live births with a birthweight reported.

Table 3.3
Births of High Weight as a Percent of Total Live Births
Calendar Years 1996-1998

	<u>Total Live Births</u> ^{1/}	<u>Number High Weight</u> ^{2/}	<u>Percent High Weight</u> ^{3/}
<i>U.S. All Races (1997)</i>	3,880,894	394,799	10.2
<i>All IHS Areas</i>	103,202	12,953	12.6
Aberdeen	8,389	1,249	14.9
Alaska	8,058	1,479	18.4
Albuquerque	5,102	381	7.5
Bemidji	6,495	1,071	16.5
Billings	4,243	598	14.1
California	8,075	1,021	12.6
Nashville	5,298	709	13.4
Navajo	13,739	1,125	8.2
Oklahoma	19,972	2,423	12.2
Phoenix	10,978	1,203	11.0
Portland	11,046	1,513	13.7
Tucson	1,807	181	10.0

^{1/} Includes 4,028 U.S. All Races live births and 256 American Indian/Alaska Native live births with birthweight not stated.

^{2/} Births of 4,000 grams or more (8lb, 14oz or more).

^{3/} Percent high weight based on live births with a birthweight reported.

Table 3.4
Live Births With Prenatal Care Beginning in First Trimester
Calendar Years 1996-1998

	Total <u>Live Births</u> ^{1/}	Live Births with Trimester Prenatal Care <u>Began Reported</u>	Live Births with Prenatal Care Beginning in the First Trimester ^{2/}	
			<u>Number</u>	<u>Percent</u>
<i>U.S. All Races (1997)</i>	3,880,894	3,780,202	3,119,693	82.5
<i>All IHS Areas</i>	103,202	99,729	68,287	68.5
Aberdeen	8,389	8,260	5,610	67.9
Alaska	8,058	7,929	6,074	76.6
Albuquerque	5,102	4,761	3,007	63.2
Bemidji	6,495	6,390	4,518	70.7
Billings	4,243	4,203	2,798	66.6
California	8,075	7,957	5,634	70.8
Nashville	5,298	5,247	4,047	77.1
Navajo	13,739	13,471	7,601	56.4
Oklahoma	19,972	18,729	13,393	71.5
Phoenix	10,978	10,731	6,937	64.6
Portland	11,046	10,266	7,448	72.6
Tucson	1,807	1,785	1,220	68.3

^{1/} Includes 100,692 U.S. All Races live births and 3,473 American Indian/Alaska Native live births for which trimester of pregnancy that prenatal care began was not reported on the State birth certificate.

^{2/} Percent based on live births with this information reported.

Table 3.5
 Percent of Mothers Who Drank During Pregnancy ^{1/} by Age of Mother
 Calendar Years 1996-1998
 (Mothers who drank during pregnancy includes those who drank even less
 than one drink per week during pregnancy.)

	<u>All Ages</u>	<u>Under 18 Years</u>	<u>18-19 Years</u>	<u>20-24 Years</u>	<u>25-29 Years</u>	<u>30-34 Years</u>	<u>35-54 Years</u>
<i>U.S. All Races (1997)</i>	1.1	0.7	0.8	0.9	1.0	1.4	2.0
<i>All IHS Areas</i>	3.6	3.5	2.8	3.5	4.2	5.4	5.8
Aberdeen	4.7	5.7	5.8	3.8	6.5	6.8	9.3
Alaska	8.7	9.1	6.9	8.5	8.3	13.4	12.2
Albuquerque	3.4	4.6	4.9	2.4	3.1	3.6	5.2
Bemidji	4.6	3.8	3.4	3.8	5.3	6.3	10.6
Billings	6.6	3.1	5.7	7.3	9.4	7.8	7.8
California	3.1	--	--	--	--	33.3 *	--
Nashville	1.3	--	0.5	1.2	1.8	0.8	1.9
Navajo	2.8	4.4	2.2	3.0	3.9	3.3	3.2
Oklahoma	1.6	1.4	0.6	1.8	1.4	2.7	3.7
Phoenix	3.4	3.7	3.4	2.8	4.7	5.7	5.2
Portland	3.3	3.0	2.3	4.4	4.3	5.3	6.2
Tucson	1.5	1.5	1.4	0.5	0.8	3.7	4.4

-- Represents zero.

* Percent based on less than 20 births in the age group specified.

^{1/} Based on the number of live births with drinking status of the mother reported.

NOTE: The States of California, and South Dakota do not include a question on drinking history of the mother during pregnancy on State birth certificates. Persons usually residing in one of these 2 States responding to this question reported their drinking history on a form from another State, since the delivery was performed out of their usual State of residence.

Table 3.6
 Percent of Mothers Who Smoked During Pregnancy
 for All Births and Low Weight Births by Age of Mother
 Calendar Years 1996-1998
 (Low birthweight is defined as weight less than 2,500 grams (5lb, 8oz))

	Percent of Live Births ^{1/} for Which the Mother Reported Smoking				
	All Ages	Under 15 Years	15-19 Years	20-34 Years	35-54 Years
U.S. All Races (1997)	13.2	8.1	17.6	12.7	11.0
All IHS Areas	20.2	14.4	21.8	20.0	18.6
Aberdeen	37.6	25.0	34.2	38.9	36.8
Alaska	34.6	34.5	39.3	34.1	30.6
Albuquerque	6.0	8.0	6.4	5.7	6.8
Bemidji	40.6	16.7	41.7	40.5	40.6
Billings	32.9	45.0	32.5	32.8	34.7
California	9.4	-- *	-- *	11.1	-- *
Nashville	21.3	5.6 *	22.2	20.9	23.7
Navajo	2.5	11.6	4.1	2.3	1.2
Oklahoma	21.4	9.0	22.1	20.7	28.4
Phoenix	8.7	4.8	9.5	8.5	8.4
Portland	27.0	17.3	29.2	26.5	25.8
Tucson	5.4	-- *	6.0	4.9	8.6

	Percent of Low Weight Births ^{1/} for Which the Mother Reported Smoking				
	All Ages	Under 15 Years	15-19 Years	20-34 Years	35-54 Years
U.S. All Races (1997)	12.1	15.7	11.4	12.7	12.0
All IHS Areas	28.3	14.3	28.7	28.4	27.9
Aberdeen	48.5	-- *	41.3	50.3	52.0 *
Alaska	45.7	50.0 *	38.2	46.8	47.8
Albuquerque	9.5	-- *	5.5	7.9	22.2
Bemidji	54.5	-- *	50.0	55.0	59.3
Billings	44.5	100.0 *	39.2	47.5	36.4
California	42.9 *	-- *	-- *	42.9 *	-- *
Nashville	28.4	-- *	32.2	28.3	23.1
Navajo	4.6	-- *	7.7	4.1	3.8
Oklahoma	35.1	-- *	36.0	34.6	39.5
Phoenix	14.2	33.3 *	14.0	13.7	16.7
Portland	36.9	-- *	37.3	37.1	37.9
Tucson	7.6	-- *	6.3	4.8	26.7 *

-- Represents zero.

* Percent based on less than 20 births with smoking status reported in the age group specified.

^{1/} Based on the number of live births with smoking status of the mother reported.

NOTE: The States of California, Indiana, New York (except New York City) and South Dakota do not include a question on smoking history of the mother during pregnancy. Persons usually residing in one of these 4 States responding to this question reported their smoking history on a form from another State, since the delivery was performed out of their usual State of residence.

Table 3.7
Rate ^{1/} of Live Births with Diabetic Mother by Age of Mother
Calendar Years 1996-1998

	<u>All Ages</u>	<u>Under 20 Years</u>	<u>20-24 Years</u>	<u>25-29 Years</u>	<u>30-34 Years</u>	<u>35-39 Years</u>	<u>40-54 Years</u>
<i>U.S. All Races (1997)</i>	26.4	8.2	16.3	25.5	35.0	47.8	64.9
<i>All IHS Areas</i>	48.3	15.0	29.4	52.5	84.5	119.8	168.7
Aberdeen	42.8	13.1	22.4	54.0	95.9	126.5	93.8
Alaska	29.0	8.3	17.8	36.4	38.7	54.9	84.6
Albuquerque	56.3	9.3	28.9	61.5	94.0	131.6	252.6
Bemidji	66.6	36.3	44.2	60.1	123.4	187.1	174.6
Billings	33.1	7.8	18.4	45.7	73.0	57.0	145.2
California	25.7	7.7	20.0	25.9	36.1	62.8	84.5
Nashville	49.1	13.3	31.6	56.9	81.1	121.7	137.9
Navajo	65.0	16.0	31.0	62.9	96.1	162.3	244.8
Oklahoma	50.8	18.7	36.6	60.6	101.9	121.7	167.7
Phoenix	62.5	18.8	35.7	66.0	111.0	160.6	201.2
Portland	34.7	9.3	23.5	35.5	61.3	93.4	116.6
Tucson	54.2	16.9	31.7	53.4	135.0	102.9	185.2

^{1/} Number of live births with a diabetic mother per 1,000 live births with diabetes status reported in age group specified.

Table 3.8
 Rates of First Cesarean Delivery and Vaginal Birth
 after Previous Cesarean Delivery by Age of Mother
 Calendar Years 1996-1998
 (Rates per 100 live births)

	Rate of First Cesarean Delivery				Rate of Vaginal Births After Previous Cesarean Delivery			
	All Ages	Under 25 Years	25-34 Years	35-54 Years	All Ages	Under 25 Years	25-34 Years	35-54 Years
<i>U.S. All Races (1997)</i>	14.6	13.0	14.9	18.8	27.4	30.3	27.8	23.6
<i>All IHS Areas</i>	12.1	11.8	11.9	15.2	31.1	31.9	31.1	29.5
Aberdeen	13.0	12.4	13.8	15.6	21.2	23.7	19.4	19.2
Alaska	7.6	6.8	8.0	10.2	59.2	57.9	61.1	55.3
Albuquerque	10.6	9.2	11.6	14.8	41.4	45.9	39.5	41.4
Bemidji	13.7	13.8	12.8	17.9	25.4	29.7	24.4	18.7
Billings	13.5	13.8	11.8	19.0	27.3	32.5	26.1	17.2
California	13.6	12.8	13.7	18.5	20.5	25.2	17.9	20.5
Nashville	15.7	16.1	14.4	20.7	27.2	28.2	28.7	15.7
Navajo	8.3	7.9	7.9	11.9	49.7	51.1	52.3	40.9
Oklahoma	15.3	15.2	14.9	19.6	20.1	20.9	20.1	17.3
Phoenix	11.4	10.8	12.0	13.2	35.3	39.7	33.5	31.5
Portland	12.0	11.0	12.8	16.0	36.9	40.7	36.2	32.2
Tucson	11.4	10.3	11.5	18.7	27.7	30.3	22.5	34.5

NOTE: Rate of first cesarean delivery is computed by dividing the total number of such deliveries by the number of all women who have never had a cesarean delivery. The denominator for this rate includes all births less those with method of delivery classified as repeat cesarean, vaginal birth after previous cesarean, or method not stated.

Rate of vaginal births after previous cesarean delivery is computed by dividing the number of such deliveries by the sum of these deliveries plus repeat cesarean deliveries, that is, to women with a previous cesarean section.

Table 3.11
 Infant Mortality Rates
 (Under 1 Year)
 Calendar Years 1996-1998

	<u>Live Births</u>	<u>Infant Deaths</u>		<u>Rate</u> ^{1/}	
		<u>Unadjusted</u>	<u>Adjusted</u> ^{2/}	<u>Unadjusted</u>	<u>Adjusted</u> ^{2/}
<i>U.S. All Races (1997)</i>	3,880,894	28,045		7.2	
<i>All IHS Areas</i>	103,202	780	916	7.6	8.9
Aberdeen	8,389	103	105	12.3	12.5
Alaska	8,058	66	72	8.2	8.9
Albuquerque	5,102	36 ^{3/}	35 ^{3/}	7.1 ^{3/}	6.9 ^{3/}
Bemidji	6,495	65	69	10.0	10.6
Billings	4,243	46	47	10.8	11.1
California	8,075	37	75	4.6	9.3
Nashville	5,298	37	56	7.0	10.6
Navajo	13,739	112 ^{3/}	100 ^{3/}	8.2 ^{3/}	7.3 ^{3/}
Oklahoma	19,972	100	149	5.0	7.5
Phoenix	10,978	96 ^{3/}	94 ^{3/}	8.7 ^{3/}	8.6 ^{3/}
Portland	11,046	66	99	6.0	9.0
Tucson	1,807	16 ^{3/}	15 ^{3/}	8.9 ^{3/}	8.3 ^{3/}

^{1/} Rate per 1,000 live births.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

^{3/} For the Albuquerque, Navajo, Phoenix and Tucson Areas there were more American Indian and Alaska Native Infant deaths identified through use of the State death certificate records (36, 112, 96 and 16 infant deaths-unadjusted data) than through use of a match between State birth and death certificate records (35, 100, 94 and 15 infant deaths-adjusted data).

Table 3.12
Neonatal Mortality Rates
(Under 28 Days)
Calendar Years 1996-1998

	<u>Live Births</u>	<u>Infant Deaths</u>		<u>Rate ^{1/}</u>	
		<u>Unadjusted</u>	<u>Adjusted ^{2/}</u>	<u>Unadjusted</u>	<u>Adjusted ^{2/}</u>
<i>U.S. All Races (1997)</i>	3,880,894	18,524		4.8	
<i>All IHS Areas</i>	103,202	376	458	3.6	4.4
Aberdeen	8,389	44	47	5.2	5.6
Alaska	8,058	28	29	3.5	3.6
Albuquerque	5,102	16 ^{3/}	13 ^{3/}	3.1 ^{3/}	2.5 ^{3/}
Bemidji	6,495	34	36	5.2	5.5
Billings	4,243	23	23	5.4	5.4
California	8,075	17	43	2.1	5.3
Nashville	5,298	21	33	4.0	6.2
Navajo	13,739	52 ^{3/}	49 ^{3/}	3.8 ^{3/}	3.6 ^{3/}
Oklahoma	19,972	52	78	2.6	3.9
Phoenix	10,978	52 ^{3/}	50 ^{3/}	4.7 ^{3/}	4.6 ^{3/}
Portland	11,046	35	55	3.2	5.0
Tucson	1,807	2	2	1.1	1.1

^{1/} Rate per 1,000 live births.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

^{3/} The adjusted numbers and rates for neonatal deaths for Albuquerque, Navajo and Phoenix Areas are lower than the unadjusted numbers and rates because the linked birth/infant death file (used to obtain the adjusted counts for neonatal deaths) had 3, 3, and 2 less deaths than did the unadjusted mortality file for each respective Area (1996-1998 data).

Table 3.13
 Postneonatal Mortality Rates
 (28 Days to Under 1 Year)
 Calendar Years 1996-1998

	<u>Live Births</u>	<u>Infant Deaths</u>		<u>Rate</u> ^{1/}	
		<u>Unadjusted</u>	<u>Adjusted</u> ^{2/}	<u>Unadjusted</u>	<u>Adjusted</u> ^{2/}
<i>U.S. All Races (1997)</i>	3,880,894	9,521		2.5	
<i>All IHS Areas</i>	103,202	404	458	3.9	4.4
Aberdeen	8,389	59 ^{3/}	58 ^{3/}	7.0 ^{3/}	6.9 ^{3/}
Alaska	8,058	38	43	4.7	5.3
Albuquerque	5,102	20	22	3.9	4.3
Bemidji	6,495	31	33	4.8	5.1
Billings	4,243	23	24	5.4	5.7
California	8,075	20	32	2.5	4.0
Nashville	5,298	16	23	3.0	4.3
Navajo	13,739	60 ^{3/}	51 ^{3/}	4.4 ^{3/}	3.7 ^{3/}
Oklahoma	19,972	48	71	2.4	3.6
Phoenix	10,978	44	44	4.0	4.0
Portland	11,046	31	44	2.8	4.0
Tucson	1,807	14 ^{3/}	13 ^{3/}	7.7 ^{3/}	7.2 ^{3/}

^{1/} Rate per 1,000 live births.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

^{3/} The adjusted numbers and rates for postneonatal deaths for Aberdeen, Navajo and Tucson Areas are lower than the unadjusted numbers and rates because the linked birth/infant death file (used to obtain the adjusted counts for postneonatal deaths) had 1, 9 and 1 less deaths than did the unadjusted mortality file for each respective Area (1996-1998 data).

Table 3.28
Sudden Infant Death Syndrome Rates
Calendar Years 1996-1998

	<u>Live Births</u>	<u>Infant Deaths</u>		<u>Rate ^{1/}</u>	
		<u>Unadjusted</u>	<u>Adjusted ^{2/}</u>	<u>Unadjusted</u>	<u>Adjusted ^{2/}</u>
<i>U.S. All Races (1997)</i>	3,880,894	2,991		77.1	
<i>All IHS Areas</i>	103,202	148	166	143.4	160.9
Aberdeen	8,389	28	29	333.8	345.7
Alaska	8,058	18	18	223.4	223.4
Albuquerque	5,102	5	5	98.0	98.0
Bemidji	6,495	14	16	215.6	246.3
Billings	4,243	7 ^{3/}	6 ^{3/}	165.0 ^{3/}	141.4 ^{3/}
California	8,075	7	12	86.7	148.6
Nashville	5,298	6	6	113.3	113.3
Navajo	13,739	7	7	51.0	51.0
Oklahoma	19,972	22	28	110.2	140.2
Phoenix	10,978	12 ^{3/}	11 ^{3/}	109.3 ^{3/}	100.2 ^{3/}
Portland	11,046	20	26	181.0	235.4
Tucson	1,807	2	2	110.7	110.7

^{1/} Rate per 100,000 live births.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

^{3/} The adjusted numbers and rates (Billings and Phoenix Areas) are lower than the unadjusted numbers and rates because the linked birth/infant death file (used to obtain the adjusted counts for infant deaths) had 1 less death for this cause than did the unadjusted mortality file for each respective IHS area (1996-1998 data).

Table 4.1
Age-Adjusted Death Rates
(All Causes)
Calendar Years 1996-1998

	Deaths ^{1/}		Rate ^{2/}	
	Unadjusted	Adjusted ^{3/}	Unadjusted	Adjusted ^{3/}
<i>U.S. All Races (1997)</i>	2,314,245		479.1	
<i>All IHS Areas</i>	23,508	26,964	620.7	715.2
Aberdeen	2,113	2,168	982.9	1,009.4
Alaska	1,790	1,888	725.2	766.5
Albuquerque	1,182	1,238	573.4	604.4
Bemidji	1,853	2,201	896.2	1,067.5
Billings	1,036	1,097	828.0	879.2
California	1,269	1,841	382.2	554.9
Nashville	1,095	1,258	540.1	619.0
Navajo	3,426	3,457	628.9	637.2
Oklahoma	4,372	6,066	448.6	639.8
Phoenix	2,399	2,508	753.5	789.8
Portland	2,333	2,589	656.4	725.9
Tucson	640	653	932.6	955.1

^{1/} Includes deaths with age not reported (6 deaths IHS-wide; Aberdeen-1 death, Nashville-1 death, Oklahoma-1 death, and Tucson-3 deaths).

^{2/} Age-adjusted rate per 100,000 population.

^{3/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.2
 Years of Potential Life Lost (YPLL) Rates
 (All Causes)
 Calendar Years 1996-1998

	Number of YPLL ^{1/}		Rate ^{2/}	
	Unadjusted	Adjusted ^{3/}	Unadjusted	Adjusted ^{3/}
<i>U.S. All Races (1997)</i>	11,267,822		48.4	
<i>All IHS Areas</i>	304,450	358,557	75.3	88.6
Aberdeen	31,420	32,287	116.2	119.5
Alaska	26,292	27,752	90.2	95.2
Albuquerque	16,495	17,193	74.7	77.9
Bemidji	20,751	25,751	89.0	110.4
Billings	14,144	14,961	90.0	95.2
California	14,758	24,449	42.3	70.1
Nashville	12,411	15,631	60.5	76.2
Navajo	51,083	50,892	85.3	85.0
Oklahoma	37,655	63,697	45.9	77.7
Phoenix	38,619	39,873	96.5	99.6
Portland	31,520	36,813	74.7	87.2
Tucson	9,302	9,258	119.4	118.8

^{1/} Years of Potential Life Lost (YPLL) is a mortality indicator which measures the burden of premature deaths. It is calculated by subtracting the age at death from age 65 and summing the result over all deaths. This calculation was performed through the use of age groups Under 1, 1 to 4 and 5-year age groups through 60 to 64. The age at death was calculated based upon the mid point of each of these age groups.

^{2/} Rate per 1,000 population under 65 years of age.

^{3/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.17
Age-Adjusted Injury and Poisoning ^{1/} Death Rates
Calendar Years 1996-1998

	Deaths ^{2/}		Rate ^{3/}	
	Unadjusted	Adjusted ^{4/}	Unadjusted	Adjusted ^{4/}
<i>U.S. All Races (1997)</i>	146,400		50.2	
<i>All IHS Areas</i>	4,560	5,277	114.7	132.0
Aberdeen	425	439	174.8	180.2
Alaska	423	448	152.1	161.1
Albuquerque	264	275	118.1	122.5
Bemidji	252	327	108.9	139.0
Billings	217	230	150.1	158.5
California	200	318	56.5	88.8
Nashville	149	179	69.4	82.2
Navajo	949	967	173.2	176.6
Oklahoma	465	790	54.4	92.5
Phoenix	600	629	160.5	167.7
Portland	475	535	111.7	125.0
Tucson	141	140	184.6	183.9

^{1/} Includes the following ICD-9 cause of death groups combined: Motor vehicle accidents-E810-E825. Other accidents-E800-E807, E826-E949. Suicide-E950-E959. Homicide-E960-E978. Injury undetermined whether accidentally or purposely inflicted-E980-E989. Injury resulting from operations of war-E990-E999.

^{2/} Includes 2 deaths with age not reported. Both deaths were in the Tucson Area.

^{3/} Age-adjusted rate per 100,000 population.

^{4/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.18
Age-Adjusted Accident Death Rates
Calendar Years 1996-1998

	All Accidents				Motor Vehicle Accidents			Other Accidents	
	Deaths		Rate ^{2/}		Totals		Percent of Motor Vehicle Accident Deaths Pedestrian-related ^{1/}	Rate ^{2/}	
	Unadjusted	Adjusted ^{3/}	Unadjusted	Adjusted ^{3/}	Unadjusted	Adjusted ^{3/}		Unadjusted	Adjusted ^{3/}
<i>U.S. All Races (1997)</i>	95,644		30.1		15.9			14.2	
<i>All IHS Areas</i>	3,245	3,761	82.1	94.7	46.6	54.8	19.5%	35.6	39.9
Aberdeen	300	312	125.9	130.5	73.3	77.4	11.1%	52.6	53.1
Alaska	258	275	94.6	100.8	24.4	24.7	20.0%	70.2	76.1
Albuquerque	191	201	85.6	89.8	49.9	53.9	18.9%	35.7	35.9
Bemidji	165	215	72.1	92.0	41.9	55.0	19.7%	30.2	37.0
Billings	165	177	113.8	121.7	74.4	82.5	8.2%	39.5	39.2
California	144	231	41.1	65.1	20.1	31.4	17.5%	21.0	33.7
Nashville	106	133	49.0	60.5	32.1	42.5	23.2%	16.9	18.0
Navajo	735	753	135.1	138.5	84.1	87.2	30.6%	51.0	51.3
Oklahoma	305	514	35.0	59.3	22.2	39.1	9.8%	12.8	20.2
Phoenix	446	472	121.4	128.1	72.6	77.7	23.6%	48.8	50.3
Portland	331	380	78.2	89.2	38.6	45.1	16.0%	39.6	44.1
Tucson	99	98	133.6	132.9	76.4	76.4	23.2%	57.2	56.5

^{1/} Includes Motor vehicle accidents having ICD-9 codes E810-E825 with a fourth digit code .7. The fourth digit code .7 indicates a pedestrian was the subject decedent as a result of the motor vehicle accident. Percents are based upon adjusted numbers of deaths.

^{2/} Age-adjusted rate per 100,000 population.

^{3/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.19
Age-Adjusted Suicide Death Rates
Calendar Years 1996-1998

	Deaths		Rate ^{1/}	
	Unadjusted	Adjusted ^{2/}	Unadjusted	Adjusted ^{2/}
<i>U.S. All Races (1997)</i>	30,535		10.6	
<i>All IHS Areas</i>	711	818	17.6	20.2
Aberdeen	83	85	32.3	33.1
Alaska	124	132	43.2	45.9
Albuquerque	37	37	16.4	16.4
Bemidji	53	72	22.7	30.4
Billings	27	28	18.5	19.1
California	34	53	9.8	15.2
Nashville	16	17	7.4	7.9
Navajo	94	94	16.8	16.8
Oklahoma	69	116	8.4	14.0
Phoenix	61	62	15.2	15.4
Portland	87	96	20.1	22.0
Tucson	26	26	32.1	32.1

^{1/} Age-adjusted rate per 100,000 population. Rates based on a small number of deaths should be interpreted with caution.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.20
Age-Adjusted Homicide Death Rates
Calendar Years 1996-1998

	Deaths		Rate ^{1/}	
	Unadjusted	Adjusted ^{2/}	Unadjusted	Adjusted ^{2/}
<i>U.S. All Races (1997)</i>	19,846		8.0	
<i>All IHS Areas</i>	514	594	12.7	14.5
Aberdeen	36	36	14.1	14.1
Alaska	38	38	13.4	13.4
Albuquerque	34	35	15.4	15.6
Bemidji	25	29	10.3	12.0
Billings	20	20	13.9	13.9
California	18	28	4.6	7.0
Nashville	24	26	11.2	12.1
Navajo	111	111	19.7	19.7
Oklahoma	76	135	9.2	16.1
Phoenix	80	82	20.4	20.7
Portland	39	41	9.0	9.4
Tucson	13	13	15.2	15.2

^{1/} Age-adjusted rate per 100,000 population. Rates based on a small number of deaths should be interpreted with caution.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

NOTE: Includes deaths due to homicide and legal intervention.

Table 4.21
Age-Adjusted Firearm Injury ^{1/} Death Rates
Calendar Years 1996-1998

	Deaths		Rate	
	Unadjusted	Adjusted ^{2/}	Unadjusted	Adjusted ^{2/}
<i>U.S. All Races (1997)</i>	32,436		12.2	
<i>All IHS Areas</i>	603	709	15.0	17.6
Aberdeen	39	39	15.0	15.0
Alaska	108	115	37.8	40.2
Albuquerque	37	37	17.2	17.2
Bemidji	31	42	13.2	17.7
Billings	18	18	12.2	12.2
California	29	43	8.3	12.2
Nashville	25	27	12.2	13.1
Navajo	81	81	14.2	14.2
Oklahoma	88	157	10.8	19.0
Phoenix	64	64	15.8	15.8
Portland	62	65	14.4	15.1
Tucson ^{2/}	21	21	25.0	25.0

^{1/} Includes deaths with ICD-9 codes: Accident caused by firearm missile-E922, Suicide and self-inflicted injury by firearms-E955.0-E955.4, Assault by firearms and legal intervention-E965.0-E965.4, E970, and Injury by firearms, undetermined whether accidentally or purposely inflicted-E985.0-E985.4. Injury by firearm causes exclude explosive and other causes indirectly related to firearms.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.22

Age-Adjusted Death Rates for Injury and Poisonings Deaths Due to Other Causes ^{1/}
 Calendar Years 1996-1998

	Deaths		Rate ^{2/}	
	Unadjusted	Adjusted ^{3/}	Unadjusted	Adjusted ^{3/}
<i>U.S. All Races (1997)</i>	3,680		1.3	
<i>All IHS Areas</i>	90	104	2.3	2.7
Aberdeen	6	6	2.5	2.5
Alaska	3	3	1.0	1.0
Albuquerque	2	2	0.7	0.7
Bemidji	9	11	3.8	4.6
Billings	5	5	3.8	3.8
California	4	6	1.0	1.5
Nashville	3	3	1.8	1.8
Navajo	9	9	1.6	1.6
Oklahoma	15	25	1.9	3.1
Phoenix	13	13	3.5	3.5
Portland	18	18	4.4	4.4
Tucson	3	3	3.7	3.7

^{1/} Includes the following ICD-9 cause of death groups combined: Injury undetermined whether accidentally or purposely inflicted-E980-E989. Injury resulting from operations of war-E990-E999.

^{2/} Age-adjusted rate per 100,000 population. Rates based on a small number of deaths should be interpreted with caution.

^{3/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.23
Age-Adjusted Alcoholism Death Rates
Calendar Years 1996-1998

	Deaths		Rate ^{1/}	
	Unadjusted	Adjusted ^{2/}	Unadjusted	Adjusted ^{2/}
<i>U.S. All Races (1997)</i>	19,576		6.3	
<i>All IHS Areas</i>	1,356	1,563	40.3	46.5
Aberdeen	158	168	82.0	87.4
Alaska	127	143	54.4	61.2
Albuquerque	108	121	61.5	69.1
Bemidji	66	85	34.9	45.1
Billings	67	74	55.7	61.0
California	61	91	20.2	30.1
Nashville	39	45	20.8	24.1
Navajo	226	231	49.8	50.9
Oklahoma	126	189	16.7	25.0
Phoenix	180	195	58.6	63.8
Portland	157	179	45.0	51.3
Tucson	41	42	66.3	68.2

^{1/} Age-adjusted rate per 100,000 population.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.24
Age-Adjusted Diabetes Mellitus Death Rates
Calendar Years 1996-1998

	Deaths		Rate ^{1/}	
	Unadjusted	Adjusted ^{2/}	Unadjusted	Adjusted ^{2/}
<i>U.S. All Races (1997)</i>	62,636		13.5	
<i>All IHS Areas</i>	1,511	1,780	44.4	52.8
Aberdeen	155	162	79.0	82.9
Alaska	24	24	10.8	10.8
Albuquerque	106	118	59.9	67.6
Bemidji	134	165	71.3	88.9
Billings	65	69	57.4	61.3
California	69	103	22.4	33.9
Nashville	94	111	48.8	58.0
Navajo	187	193	41.1	42.5
Oklahoma	301	422	34.2	49.1
Phoenix	194	214	73.5	81.5
Portland	128	144	41.0	46.4
Tucson	54	55	88.4	90.2

^{1/} Age-adjusted rate per 100,000 population.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.25
Age-Adjusted Pneumonia and Influenza Death Rates
Calendar Years 1996-1998

	Deaths		Rate ^{1/}	
	Unadjusted	Adjusted ^{2/}	Unadjusted	Adjusted ^{2/}
<i>U.S. All Races (1997)</i>	86,449		12.9	
<i>All IHS Areas</i>	845	915	19.8	21.5
Aberdeen	71 ^{3/}	70 ^{3/}	31.3 ^{3/}	31.1 ^{3/}
Alaska	46	47	16.8	17.0
Albuquerque	54	56	22.5	23.2
Bemidji	56	61	25.1	27.5
Billings	37	38	27.8	28.6
California	33	49	9.3	13.8
Nashville	34	36	15.0	17.5
Navajo	205 ^{3/}	204 ^{3/}	30.8 ^{3/}	30.8 ^{3/}
Oklahoma	128	166	10.7	14.5
Phoenix	86	91	25.9	27.2
Portland	71	73	20.0	20.5
Tucson	24	24	35.3	36.5

^{1/} Age-adjusted rate per 100,000 population.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

^{3/} The adjusted numbers and rates (Aberdeen and Navajo Areas) are lower than the unadjusted numbers and rates because the linked birth/infant death file (used to obtain the adjusted counts of infant deaths) had 1 less death for this cause than did the unadjusted mortality file (1996-1998 data) for each of these two Areas.

Table 4.26
Age-Adjusted Tuberculosis Death Rates
Calendar Years 1996-1998

	Deaths		Rate ^{1/}	
	Unadjusted	Adjusted ^{2/}	Unadjusted	Adjusted ^{2/}
<i>U.S. All Races (1997)</i>	1,166		0.3	
<i>All IHS Areas</i>	51	53	1.4	1.5
Aberdeen	6	6	3.3	3.3
Alaska	2	2	1.1	1.1
Albuquerque	3	3	1.6	1.6
Bemidji	2	2	0.8	0.8
Billings	3	3	2.5	2.5
California	--	--	--	--
Nashville	1	1	0.6	0.6
Navajo	11	11	2.4	2.4
Oklahoma	10	12	1.1	1.3
Phoenix	6	6	1.7	1.7
Portland	5	5	1.5	1.5
Tucson	2	2	2.5	2.5

-- Represents zero.

^{1/} Age-adjusted rate per 100,000 population. Rates based on a small number of deaths should be interpreted with caution.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.27
Age-Adjusted Gastrointestinal Diseases Death Rates
Calendar Years 1996-1998

	Deaths		Rate ^{1/}	
	Unadjusted	Adjusted ^{2/}	Unadjusted	Adjusted ^{2/}
<i>U.S. All Races (1997)</i>	6,988		1.3	
<i>All IHS Areas</i>	64	71	1.6	1.8
Aberdeen	4	4	2.1	2.1
Alaska	5	5	1.9	1.9
Albuquerque	4	4	1.6	1.6
Bemidji	5	6	2.4	3.4
Billings	3	3	2.1	2.1
California	8	10	2.3	3.0
Nashville	--	--	--	--
Navajo	5	5	1.0	1.0
Oklahoma	8	10	0.5	0.6
Phoenix	5	5	1.6	1.6
Portland	13	15	3.8	4.3
Tucson	4	4	5.1	5.1

-- Represents zero.

^{1/} Age-adjusted rate per 100,000 population. Rates based on a small number of deaths should be interpreted with caution.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.28
Age-Adjusted Diseases of the Heart Death Rates
Calendar Years 1996-1998

	Deaths		Rate ^{1/}	
	Unadjusted	Adjusted ^{2/}	Unadjusted	Adjusted ^{2/}
<i>U.S. All Races (1997)</i>	726,974		130.5	
<i>All IHS Areas</i>	4,967	5,811	132.9	157.1
Aberdeen	441	457	213.9	222.2
Alaska	297	310	125.8	131.8
Albuquerque	166	170	82.5	85.2
Bemidji	433	521	219.9	266.7
Billings	186	201	162.1	176.0
California	315	444	95.3	136.4
Nashville	305	359	153.7	181.8
Navajo	549	559	103.2	105.3
Oklahoma	1,301	1,741	126.4	174.5
Phoenix	413	436	140.8	149.0
Portland	454	502	134.8	150.4
Tucson	107	111	159.1	165.8

^{1/} Age-adjusted rate per 100,000 population.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.29
Age-Adjusted Cerebrovascular Diseases Death Rates
Calendar Years 1996-1998

	Deaths		Rate ^{1/}	
	Unadjusted	Adjusted ^{2/}	Unadjusted	Adjusted ^{2/}
<i>U.S. All Races (1997)</i>	159,791		25.9	
<i>All IHS Areas</i>	1,061	1,164	26.7	29.5
Aberdeen	84 ^{3/}	83 ^{3/}	40.6 ^{3/}	40.4 ^{3/}
Alaska	90	91	35.3	35.8
Albuquerque	49	49	21.4	21.4
Bemidji	100	108	47.0	50.6
Billings	50	51	41.4	42.5
California	66	86	19.5	25.8
Nashville	50	52	23.9	24.8
Navajo	122	122	19.8	19.8
Oklahoma	219	281	19.9	26.3
Phoenix	70	70	23.4	23.4
Portland	136	146	40.5	43.7
Tucson	25	25	36.4	36.4

^{1/} Age-adjusted rate per 100,000 population.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

^{3/} The adjusted number and rate (Aberdeen Area) is lower than the unadjusted number and rate because the linked birth/infant death file (used to obtain the adjusted counts for infant deaths) had 1 less death for this cause than did the unadjusted mortality file (1996-1998 data).

Table 4.30
Age-Adjusted Malignant Neoplasm Death Rates
Calendar Years 1996-1998

	Deaths		Rate ^{1/}	
	Unadjusted	Adjusted ^{2/}	Unadjusted	Adjusted ^{2/}
<i>U.S. All Races (1997)</i>	539,577		125.6	
<i>All IHS Areas</i>	3,737	4,290	107.5	124.0
Aberdeen	322	326	167.0	168.8
Alaska	386	414	180.6	194.5
Albuquerque	130	133	71.0	72.8
Bemidji	370	435	190.4	225.3
Billings	164	172	146.6	154.3
California	222	311	71.7	101.4
Nashville	180	197	93.4	103.1
Navajo	427	427	87.5	87.5
Oklahoma	833	1,135	89.6	124.6
Phoenix	265	267	95.0	95.7
Portland	371	403	115.7	126.0
Tucson	67	70	97.9	102.7

^{1/} Age-adjusted rate per 100,000 population.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.31
Age-Adjusted Lung Cancer ^{1/} Death Rates
Calendar Years 1996-1998

	Deaths		Rate ^{2/}	
	Unadjusted	Adjusted ^{3/}	Unadjusted	Adjusted ^{3/}
<i>U.S. All Races (1997)</i>	153,276		37.4	
<i>All IHS Areas</i>	920	1,120	27.5	33.5
Aberdeen	97	100	53.4	55.1
Alaska	108	119	51.5	56.8
Albuquerque	16	16	9.5	9.5
Bemidji	141	179	73.6	93.4
Billings	53	59	49.5	55.1
California	60	91	19.7	30.1
Nashville	34	40	18.7	22.3
Navajo	27	27	5.7	5.7
Oklahoma	219	304	23.8	33.4
Phoenix	43	45	16.4	17.2
Portland	115	133	38.0	44.0
Tucson	7	7	10.0	10.0

^{1/} Lung cancer death includes deaths due to cancers of the trachea, bronchus and lung, ICD-9 codes 162.0 to 162.9.

^{2/} Age-adjusted rate per 100,000 population. Rates based on a small number of deaths should be interpreted with caution.

^{3/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.32
Age-Adjusted Breast Cancer Death Rates For Females
Calendar Years 1996-1998

	Deaths		Rate ^{1/}	
	Unadjusted	Adjusted ^{2/}	Unadjusted	Adjusted ^{2/}
<i>U.S. All Races (1997)</i>	41,986		19.4	
<i>All IHS Areas</i>	247	281	13.6	15.6
Aberdeen	22	22	21.9	21.9
Alaska	23	23	20.0	20.0
Albuquerque	7	7	8.2	8.2
Bemidji	14	15	12.7	13.9
Billings	12	12	22.3	22.3
California	15	19	8.7	11.0
Nashville	12	13	10.2	11.3
Navajo	28	28	11.5	11.5
Oklahoma	58	83	12.6	18.5
Phoenix	12	12	8.2	8.2
Portland	39	42	22.8	24.7
Tucson	5	5	10.8	10.8

^{1/} Age-adjusted rate per 100,000 female population. Rates based on a small number of deaths should be interpreted with caution.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.33
Age-Adjusted Cervical Cancer Death Rates For Females
Calendar Years 1996-1998

	Deaths		Rate ^{1/}	
	Unadjusted	Adjusted ^{2/}	Unadjusted	Adjusted ^{2/}
<i>U.S. All Races (1997)</i>	4,503		2.5	
<i>All IHS Areas</i>	67	79	3.5	4.2
Aberdeen	5	5	4.5	4.5
Alaska	3	3	2.8	2.8
Albuquerque	2	2	2.1	2.1
Bemidji	4	6	4.9	7.3
Billings	--	--	--	--
California	4	6	2.6	4.0
Nashville	4	4	3.3	3.3
Navajo	12	12	4.6	4.6
Oklahoma	20	28	4.3	6.3
Phoenix	8	8	4.9	4.9
Portland	4	4	1.8	1.8
Tucson	1	1	1.4	1.4

-- Represents zero.

^{1/} Age-adjusted rate per 100,000 female population. Rates based on a small number of deaths should be interpreted with caution.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.34
Age-Adjusted Colon-Rectal Cancer Death Rates
Calendar Years 1996-1998

	Deaths		Rate ^{1/}	
	Unadjusted	Adjusted ^{2/}	Unadjusted	Adjusted ^{2/}
<i>U.S. All Races (1997)</i>	57,155		12.1	
<i>All IHS Areas</i>	409	493	11.6	14.1
Aberdeen	42	42	21.4	21.4
Alaska	46	50	20.9	22.7
Albuquerque	16	17	8.4	9.1
Bemidji	51	65	25.8	33.4
Billings	10	11	8.1	9.2
California	21	32	6.8	10.5
Nashville	20	22	10.8	12.0
Navajo	31	31	6.1	6.1
Oklahoma	110	156	11.6	16.8
Phoenix	22	22	8.2	8.2
Portland	34	38	10.1	11.3
Tucson	6	7	9.3	11.0

^{1/} Age-adjusted rate per 100,000 population. Rates based on a small number of deaths should be interpreted with caution.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.35
Age-Adjusted Prostate Cancer Death Rates For Males
Calendar Years 1996-1998

	Deaths		Rate ^{1/}	
	Unadjusted	Adjusted ^{2/}	Unadjusted	Adjusted ^{2/}
<i>U.S. All Races (1997)</i>	32,891		13.9	
<i>All IHS Areas</i>	174	192	10.4	11.5
Aberdeen	12	12	13.6	13.6
Alaska	10	10	10.1	10.1
Albuquerque	7	7	6.2	6.2
Bemidji	18	19	19.6	20.6
Billings	7	7	13.6	13.6
California	12	15	8.5	10.8
Nashville	7	7	8.4	8.4
Navajo	24	24	10.4	10.4
Oklahoma	52	66	11.3	14.4
Phoenix	9	9	7.0	7.0
Portland	14	14	10.4	10.4
Tucson	2	2	3.9	3.9

^{1/} Age-adjusted rate per 100,000 male population. Rates based on a small number of deaths should be interpreted with caution.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.

Table 4.36
Age-Adjusted Human Immunodeficiency Virus (HIV) Infection Death Rates
Calendar Years 1996-1998

	Deaths		Rate ^{1/}	
	Unadjusted	Adjusted ^{2/}	Unadjusted	Adjusted ^{2/}
<i>U.S. All Races (1997)</i>	16,516		5.8	
<i>All IHS Areas</i>	112	130	2.9	3.3
Aberdeen	6	6	2.9	2.9
Alaska	5	5	1.7	1.7
Albuquerque	6	6	2.6	2.6
Bemidji	7	7	3.2	3.2
Billings	4	4	2.9	2.9
California	11	14	3.3	4.1
Nashville	9	10	4.1	4.5
Navajo	6	6	1.1	1.1
Oklahoma	20	32	2.5	3.9
Phoenix	18	18	4.7	4.7
Portland	19	21	4.4	4.8
Tucson	1	1	1.2	1.2

^{1/} Age-adjusted rate per 100,000 population. Rates based on a small number of deaths should be interpreted with caution.

^{2/} Adjusted to compensate for misreporting of Indian race on death certificates.