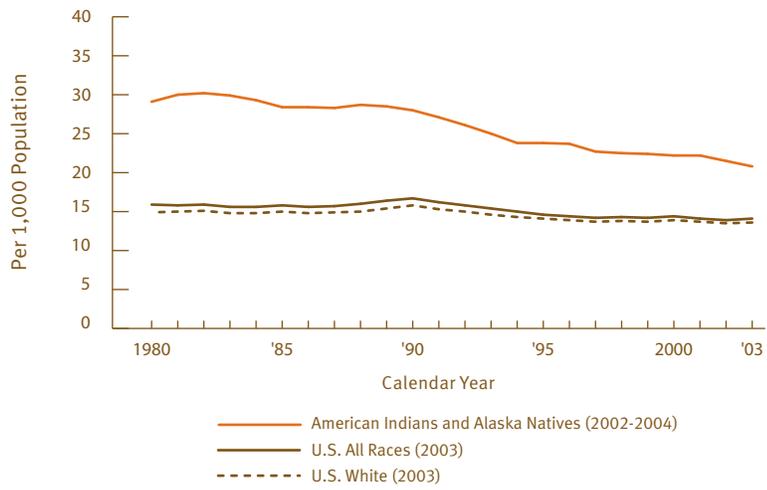


The birth rate for the IHS service population in 2002-2004 was 1.5 times the rate for the U.S. all-races population in 2003, (20.8 and 14.1, respectively). The AI/AN birth rate is 53 percent greater than the rate for the U.S. white population of 13.6.

Chart 3.1 Birth Rates



**Table 3.1** Number and Rate of Live Births

*American Indians and Alaska Natives, IHS Service Area, and U.S. All Races and White Populations, 1955-2003 (Rate per 1,000 Population)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE		U.S. ALL RACES		U.S. WHITE
	Number	Rate	Number	Rate	Rate <sup>1</sup>
2002-2004 (2003)	35,492	20.8	4,089,950	14.1	13.6
2001-2003 (2002)	37,624	21.5	4,021,726	13.9	13.5
2000-2002 (2001)	36,930	22.2	4,025,933	14.1	13.7
1999-2001 (2000)	36,599	22.2	4,058,814	14.4	13.9
1998-2000 (1999)	35,559	22.4	3,959,417	14.2	13.7
1997-1999 (1998)	35,680	22.5	3,941,553	14.3	13.8
1996-1998 (1997)	33,923	22.7	3,880,894	14.2	13.7
1995-1997 (1996)	33,599	23.7	3,891,494	14.4	13.9
1994-1996 (1995)	32,548	23.8	3,899,589	14.6	14.1
1993-1995 (1994)	32,876	23.8	3,952,767	15.0	14.3
1992-1994 (1993)	33,429	25.0	4,000,240	15.4	14.6
1991-1993 (1992)	33,894	26.1	4,065,014	15.8	15.0
1990-1992 (1991)	34,083	27.1	4,110,907	16.2	15.3
1989-1991 (1990)	33,554	28.0	4,158,212	16.7	15.8
1988-1990 (1989)	34,143	28.5	4,040,958	16.4	15.4
1987-1989 (1988)	32,544	28.7	3,909,510	16.0	15.0
1986-1988 (1987)	31,133	28.3	3,809,394	15.7	14.9
1985-1987 (1986)	29,996	28.4	3,756,547	15.6	14.8
1984-1986 (1985)	30,194	28.4	3,760,561	15.8	15.0
1983-1985 (1984)	28,416	29.3	3,669,141	15.6	14.8
1982-1984 (1983)	29,352	29.9	3,638,933	15.6	14.8
1981-1983 (1982)	28,701	30.2	3,680,537	15.9	15.1
1980-1982 (1981)	25,595	30.0	3,629,238	15.8	15.0
1979-1981 (1980)	25,346	29.1	3,612,258	15.9	14.9
1972-1974 (72-74)	50,562	29.2	3,136,965	14.8	13.8
1954-1956 (1955)	17,028	37.5	4,097,000	25.0	23.8

<sup>1</sup>Starting in 1991, birth data for the U.S. White population are shown for the race of the mother, rather than the race of the child (as shown for the years prior to 1991).

NOTE: Reservation State data for 1955, the year IHS was established, are presented above. Data from 1972 forward are drawn from specific counties in the IHS service area. Reservation State data and county data are not directly comparable. The AI/AN birth rate column presents data for the three-year period specified; the U.S. all races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN and U.S. population births for a one-year period, respectively.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

For 2002-2004, 6.9 percent of all AI/AN births in the IHS service area were considered low birthweight (less than 2,500 grams). This was better than the figure for the U.S. all-races population (7.9 percent in 2003). For AI/AN mothers under the age of 15 the percent of low birthweight is 1.6 times less than U.S. all-races (7.7 and 12.7 respectively).

**Chart 3.2** Low Birthweight (less than 2,500 grams) as a Percent of Total Live Births by Age of Mother

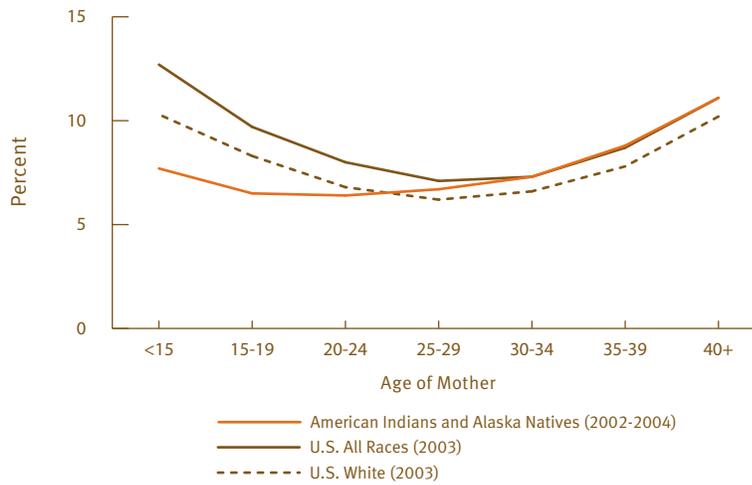


Table 3.2 Low Birthweight (less than 2,500 grams) by Age of Mother

*American Indians and Alaska Natives, IHS Service Area, 2002-2004,  
and U.S. All-Races and White Populations, 2003*

Age of Mother	Total Live Births	Number Low Birthweight	Percent Low Birthweight
American Indian and Alaska Native			
<i>All Ages</i>	<i>108,490<sup>1</sup></i>	<i>7,462</i>	<i>6.9</i>
Under 20 years	19,742	1,288	6.5
Under 15 years	324	25	7.7
15-19 years	19,418	1,256	6.5
20-24 years	37,583	2,414	6.4
25-29 years	26,545	1,782	6.7
30-34 years	15,710	1,154	7.3
35-39 years	7,127	626	8.8
40 years and over	1,783	198	11.1
U.S. All Races			
<i>All Ages</i>	<i>4,089,950<sup>2</sup></i>	<i>324,064</i>	<i>7.9</i>
Under 20 years	421,241	41,059	9.7
Under 15 years	6,661	848	12.7
15-19 years	414,580	40,211	9.7
20-24 years	1,032,305	82,494	8.0
25-29 years	1,086,366	76,631	7.1
30-34 years	975,546	71,477	7.3
35-39 years	467,642	40,550	8.7
40 years and over	106,850	11,853	11.1
U.S. White			
<i>All Ages</i>	<i>3,225,848<sup>3</sup></i>	<i>223,612</i>	<i>6.9</i>
Under 20 years	302,024	25,152	8.3
Under 15 years	3,677	378	10.3
15-19 years	298,347	24,774	8.3
20-24 years	790,910	53,600	6.8
25-29 years	871,496	54,143	6.2
30-34 years	795,902	52,407	6.6
35-39 years	379,773	29,593	7.8
40 years and over	85,743	8,717	10.2

<sup>1</sup>Excludes 121 AI/AN live births with birthweight not stated.

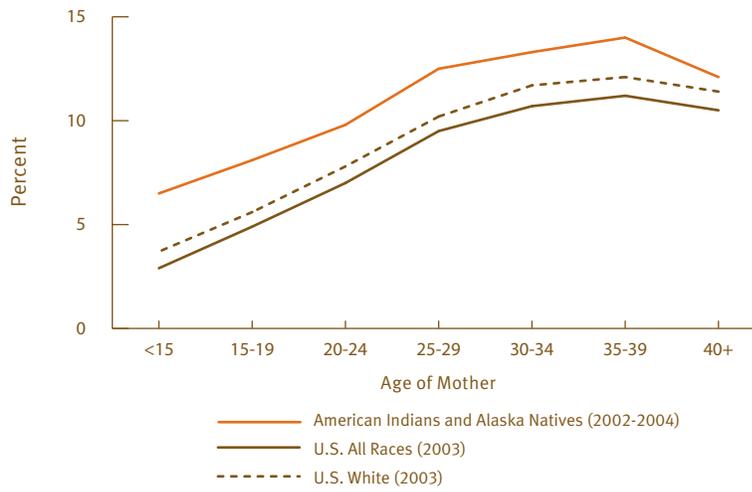
<sup>2</sup>Excludes 3,600 U.S. all-races live births with birthweight not stated.

<sup>3</sup>Excludes 2,505 U.S. white live births with birthweight not stated.

SOURCE: Rates for U.S. All Races and U.S. White: Martin JA, Hamilton BE, Sutton PD, et al. Births: Final data for 2003. National vital statistics reports; vol 54 no 2. Hyattsville, MD: National Center for Health Statistics. 2005.

The AI/AN population experiences more birth of high birthweights than the U.S. all-races population. High birthweight may be a complication of diabetic pregnancies. In 2002-2004, 11.0 percent of all babies in the IHS service area were high birthweight (4,000 grams or more). In contrast, the U.S. all-races percentage was 2.2 percentage points lower (8.8 percent) in 2003. For AI/AN mothers under the age of 15 the percent of high birthweight is 2.2 times greater than U.S. all-races (6.5 and 2.9 respectively).

**Chart 3.3 High Birthweight (4,000 grams or more) as a Percent of Total Live Births by Age of Mother**



**Table 3.3 High Birthweight (4,000 grams or more) by Age of Mother**

*American Indians and Alaska Natives, IHS Service Area, 2002-2004,  
and U.S. All-Races and White Populations, 2003*

Age of Mother	Total Live Births	Number High Birthweight	Percent High Birthweight
<b>American Indian and Alaska Native</b>			
<i>All Ages</i>	<i>108,490<sup>1</sup></i>	<i>11,906</i>	<i>11.0</i>
Under 20 years	19,742	1,595	8.1
Under 15 years	324	21	6.5
15-19 years	19,418	1,574	8.1
20-24 years	37,583	3,694	9.8
25-29 years	26,545	3,306	12.5
30-34 years	15,710	2,095	13.3
35-39 years	7,127	1,001	14.0
40 years and over	1,783	215	12.1
<b>U.S. All Races</b>			
<i>All Ages</i>	<i>4,089,950<sup>2</sup></i>	<i>361,842</i>	<i>8.8</i>
Under 20 years	421,241	20,540	4.9
Under 15 years	6,661	194	2.9
15-19 years	414,580	20,346	4.9
20-24 years	1,032,305	72,546	7.0
25-29 years	1,086,366	102,874	9.5
30-34 years	975,546	104,552	10.7
35-39 years	467,642	52,152	11.2
40 years and over	106,850	11,178	10.5
<b>U.S. White</b>			
<i>All Ages</i>	<i>3,225,848<sup>3</sup></i>	<i>316,000</i>	<i>9.8</i>
Under 20 years	302,024	16,823	5.6
Under 15 years	3,677	135	3.7
15-19 years	298,347	16,688	5.6
20-24 years	790,910	61,758	7.8
25-29 years	871,496	88,576	10.2
30-34 years	795,902	92,970	11.7
35-39 years	379,773	46,083	12.1
40 years and over	85,743	9,790	11.4

<sup>1</sup>Excludes 121 AI/AN live births with birthweight not stated.

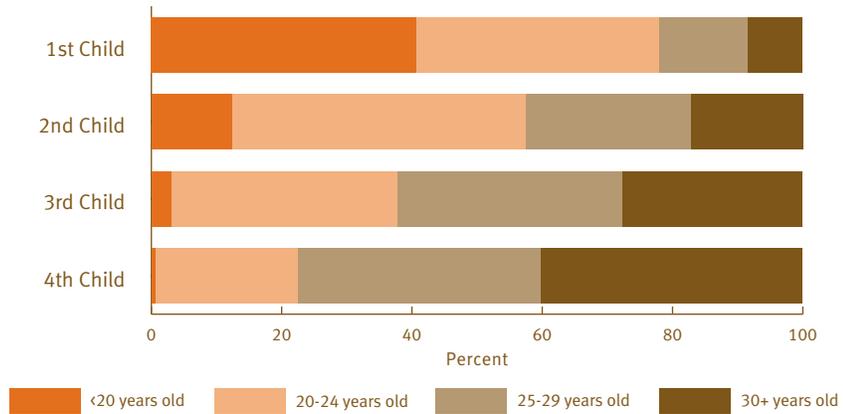
<sup>2</sup>Excludes 3,600 U.S. all-races live births with birthweight not stated.

<sup>3</sup>Excludes 2,505 U.S. white live births with birthweight not stated.

SOURCE: Rates for U.S. All Races and U.S. White: Martin JA, Hamilton BE, Sutton PD, et al. Births: Final data for 2003. National vital statistics reports; vol 54 no 2. Hyattsville, MD: National Center for Health Statistics. 2005.

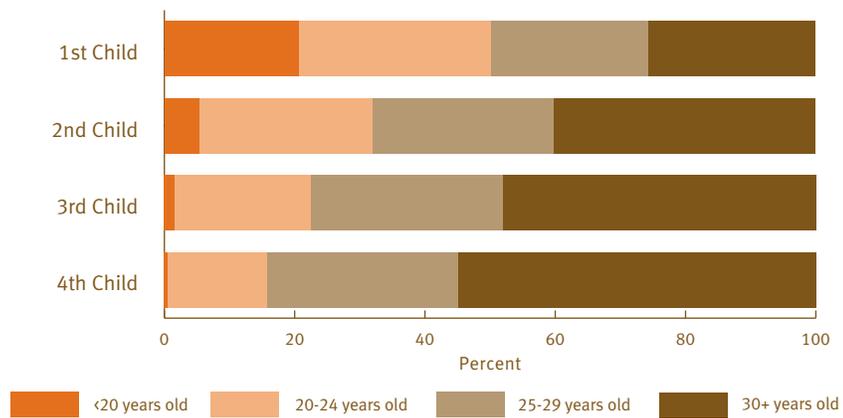
During 2002-2004, 41 percent of AI/AN mothers were under the age of 20 when their first child was born while 37 percent were at least age 20.

**Chart 3.4 Birth Order by Age of Mother, Percent Within Birth Order, American Indians and Alaska Natives**



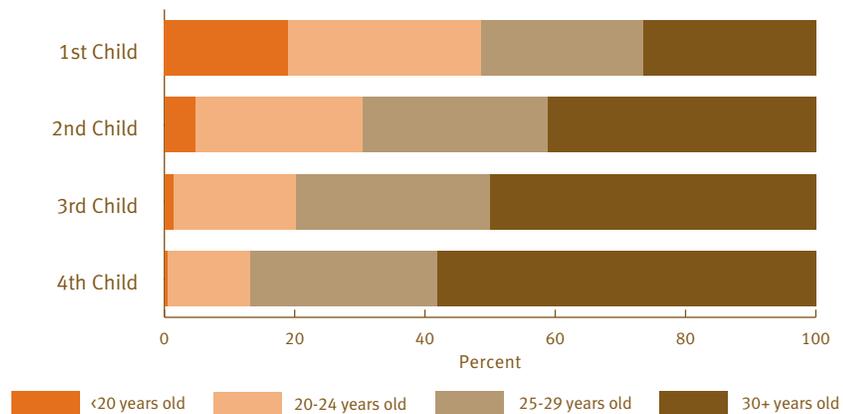
For the U.S. all-races population, 21 percent of mothers were under age 20 when they had their first child while 30 percent were at least age 20.

**Chart 3.5 Birth Order by Age of Mother, Percent Within Birth Order, U.S. All Races**



For the U.S. white population, 19 percent of mothers were under age 20 when they had their first child while 30 percent were at least age 20.

**Chart 3.6 Birth Order by Age of Mother, Percent Within Birth Order, U.S. White**



**Table 3.4** Number and Percent Distribution of Live Births by Age of Mother within Birth Order

*American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003*

Age Group	Total Live Births	LIVE BIRTH ORDER					
		1st Child	2nd Child	3rd Child	4th Child	5th Child	6th+ Child
American Indian and Alaska Native, IHS Service Area							
<i>All Ages</i>	<i>108,490<sup>1</sup></i>	<i>37,626</i>	<i>29,973</i>	<i>19,661</i>	<i>10,576</i>	<i>5,252</i>	<i>4,991</i>
<i>All Ages</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>
Under 20 years	18.2	40.7	12.3	3.0	0.6	0.1	0.0
20-24 years	34.6	37.2	45.2	34.8	21.9	11.2	3.3
25-29 years	24.5	13.6	25.3	34.4	37.2	35.5	23.3
30-34 years	14.5	5.9	12.0	18.6	25.7	31.2	35.9
35-39 years	6.6	2.1	4.3	7.5	11.8	17.7	27.7
40-44 years	1.6	0.4	0.9	1.6	2.6	4.1	9.3
45-54 years	0.1	0.0	0.0	0.1	0.1	0.2	0.6
U.S. All Races							
<i>All Ages</i>	<i>4,089,950<sup>2</sup></i>	<i>1,633,987</i>	<i>1,320,477</i>	<i>684,296</i>	<i>267,683</i>	<i>97,308</i>	<i>74,244</i>
<i>All Ages</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>
Under 20 years	10.3	20.6	5.3	1.6	0.5	0.2	0.0
20-24 years	25.2	29.5	26.6	20.8	15.2	10.3	3.9
25-29 years	26.6	24.1	27.8	29.6	29.4	27.8	19.1
30-34 years	23.9	17.6	26.4	29.0	30.9	32.0	32.2
35-39 years	11.4	6.7	11.6	15.8	19.2	22.6	30.5
40-44 years	2.5	1.4	2.2	3.1	4.6	6.7	13.1
45-54 years	0.1	0.1	0.1	0.1	0.2	0.4	1.2
U.S. White							
<i>All Ages</i>	<i>3,225,848<sup>3</sup></i>	<i>1,288,684</i>	<i>1,057,829</i>	<i>544,265</i>	<i>205,040</i>	<i>70,741</i>	<i>50,601</i>
<i>All Ages</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>
Under 20 years	9.4	19.0	4.7	1.3	0.4	0.1	0.0
20-24 years	24.5	29.5	25.8	18.8	12.8	7.9	2.8
25-29 years	27.0	24.9	28.4	29.9	28.7	26.0	15.9
30-34 years	24.7	18.2	27.1	30.4	32.6	33.5	31.7
35-39 years	11.8	6.9	11.7	16.4	20.4	24.7	33.1
40-44 years	2.5	1.4	2.2	3.1	4.9	7.3	15.2
45-54 years	0.1	0.1	0.1	0.1	0.2	0.5	1.3

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup> Excludes 411 AI/AN births with birth order not reported.

<sup>2</sup> Excludes 11,955 U.S. all-races births with birth order not reported.

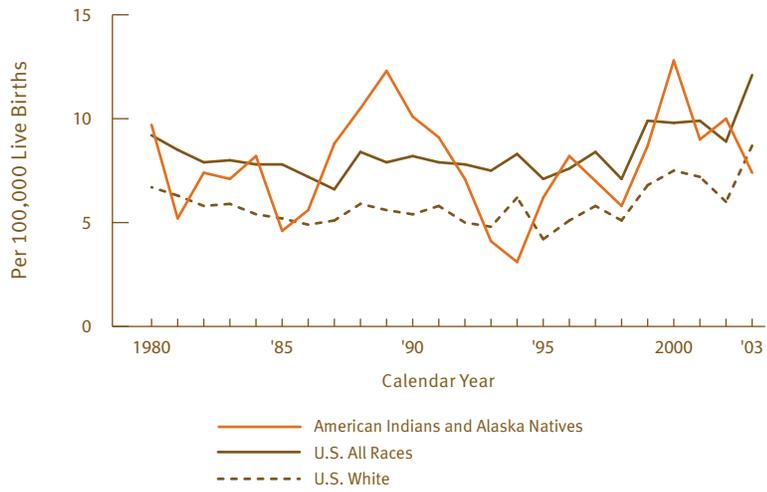
<sup>3</sup> Excludes 8,688 U.S. white births with birth order not reported.

NOTE: Percents were adjusted to sum to 100.0 due to rounding.

SOURCE: Rates for U.S. All Races and U.S. White: Martin JA, Hamilton BE, Sutton PD, et al. Births: Final data for 2003. National vital statistics reports; vol 54 no 2. Hyattsville, MD: National Center for Health Statistics. 2005.

The maternal mortality rate for AI/AN dropped from 28.5 (rate per 100,000 live births) in 1972-1974 to 11.1 in 2002-2004, a decrease of 61 percent. The AI/AN 2002-2004 rate (11.1) is 2.4 points higher than the U.S. white rate of 8.7 for 2003. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

Chart 3.7 Maternal Death Rates



**Table 3.7 Maternal Deaths and Death Rates**

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1958-2003  
(Rate per 100,000 Live Births)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE				U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate				U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>				
2002-2004 (2003)	6	7	7.4	11.1	12.1	8.7	0.9	1.3
2001-2003 (2002)	0	0	10.0	12.7	8.9	6.0	1.4	2.1
2000-2002 (2001)	5	7	9.0	12.6	9.9	7.2	1.3	1.8
1999-2001 (2000)	5	7	12.8	16.5	9.8	7.5	1.7	2.2
1998-2000 (1999)	4	4	8.7	10.7	9.9	6.8	1.1	1.6
1997-1999 (1998)	0	0	5.8	5.8	7.1	5.1	0.8	1.1
1996-1998 (1997)	2	2	7.0	8.0	8.4	5.8	1.0	1.4
1995-1997 (1996)	5	5	8.2	9.3	7.6	5.1	1.2	1.8
1994-1996 (1995)	1	1	6.2	6.2	7.1	4.2	0.9	1.5
1993-1995 (1994)	0	0	3.1	3.1	8.3	6.2	0.4	0.5
1992-1994 (1993)	2	2	4.1	5.1	7.5	4.8	0.7	1.1
1991-1993 (1992)	2	2	7.1	9.1	7.8	5.0	1.2	1.8
1990-1992 (1991)	3	3	9.1	11.2	7.9	5.8	1.4	1.9
1989-1991 (1990)	4	4	10.1	11.2	8.2	5.4	1.4	2.1
1988-1990 (1989)	3	3	12.3	13.4	7.9	5.6	1.7	2.4
1987-1989 (1988)	5	5	10.5	11.6	8.4	5.9	1.4	2.0
1986-1988 (1987)	2	2	8.8	9.9	6.6	5.1	1.5	1.9
1985-1987 (1986)	1	1	5.6	5.6	7.2	4.9	0.8	1.1
1984-1986 (1985)	2	2	4.6	4.6	7.8	5.2	0.6	0.9
1983-1985 (1984)	1	1	8.2	9.4	7.8	5.4	1.2	1.7
1982-1984 (1983)	4	4	7.1	8.3	8.0	5.9	1.0	1.4
1981-1983 (1982)	1	1	7.4	8.6	7.9	5.8	1.1	1.5
1980-1982 (1981)	1	1	5.2	5.2	8.5	6.3	0.6	0.8
1979-1981 (1980)	2	2	9.7	9.7	9.2	6.7	1.1	1.4
1972-1974 (72-74)	14	14	28.5	28.5	15.2	10.7	1.8	2.6
1957-1959 (1958)	16	16	82.6	82.6	37.6	26.3	2.2	3.1

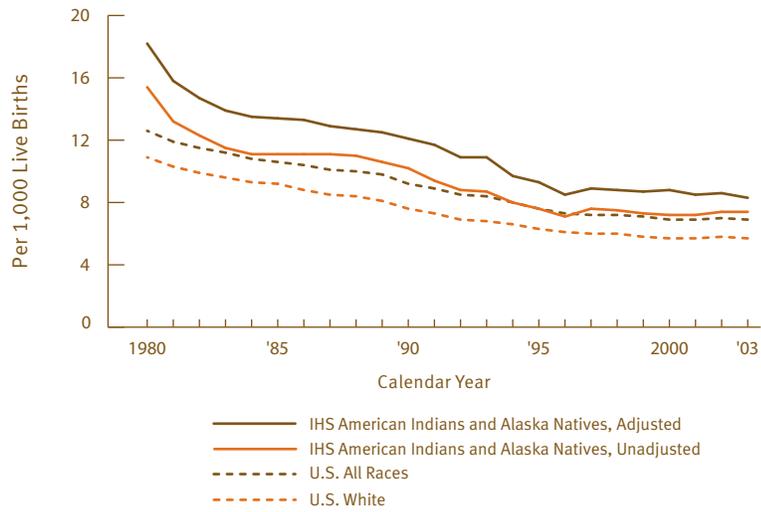
<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Data are presented above for the year in which maternal death data were first collected (1958) and as close to the year in which IHS was established (1955) as is possible. For this year Reservation State data are shown. Data from 1972 forward are drawn from specific counties in the IHS service area. Reservation State data and county data are not directly comparable. The AI/AN maternal death rate columns present data for the three-year period specified; the U.S. all races and U.S. white columns present data for a one-year period. The number columns indicate total AI/AN maternal deaths for a one-year period, respectively. AI/AN unadjusted numbers of maternal deaths and numbers of maternal deaths adjusted for race misreporting are the same.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The infant mortality rate for AI/AN dropped from 25.0 (rate per 1,000 live births) in 1972-1974 to 8.3 in 2002-2004, a decrease of 67 percent. The 2002-2004 rate is 20 percent higher than the U.S. all-races rate of 6.9 for 2003. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

Chart 3.8 Infant Mortality Rates



**Table 3.8 Infant Mortality Rates**

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1955-2003 (Rate per 100,000 Live Births)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE		U.S. ALL RACES	U.S. WHITE	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Rate		Rate	Rate	U.S. All Races	U.S. White
	Unadjusted	Adjusted <sup>1</sup>				
2002-2004 (2003)	7.4	8.3	6.9	5.7	1.2	1.5
2001-2003 (2002)	7.4	8.6	7.0	5.8	1.2	1.5
2000-2002 (2001)	7.2	8.5	6.9	5.7	1.2	1.5
1999-2001 (2000)	7.2	8.8	6.9	5.7	1.3	1.5
1998-2000 (1999)	7.3	8.7	7.1	5.8	1.2	1.5
1997-1999 (1998)	7.5	8.8	7.2	6.0	1.2	1.5
1996-1998 (1997)	7.6	8.9	7.2	6.0	1.2	1.5
1995-1997 (1996)	7.1	8.5	7.3	6.1	1.2	1.4
1994-1996 (1995)	7.6	9.3	7.6	6.3	1.2	1.5
1993-1995 (1994)	8.0	9.7	8.0	6.6	1.2	1.5
1992-1994 (1993)	8.7	10.9	8.4	6.8	1.3	1.6
1991-1993 (1992)	8.8	10.9	8.5	6.9	1.3	1.6
1990-1992 (1991)	9.4	11.7	8.9	7.3	1.3	1.6
1989-1991 (1990)	10.2	12.1	9.2	7.6	1.3	1.6
1988-1990 (1989)	10.6	12.5	9.8	8.1	1.3	1.5
1987-1989 (1988)	11.0	12.7	10.0	8.4	1.3	1.5
1986-1988 (1987)	11.1	12.9	10.1	8.5	1.3	1.5
1985-1987 (1986)	11.1	13.3	10.4	8.8	1.3	1.5
1984-1986 (1985)	11.1	13.4	10.6	9.2	1.3	1.5
1983-1985 (1984)	11.1	13.5	10.8	9.3	1.3	1.5
1982-1984 (1983)	11.5	13.9	11.2	9.6	1.2	1.4
1981-1983 (1982)	12.3	14.7	11.5	9.9	1.3	1.5
1980-1982 (1981)	13.2	15.8	11.9	10.3	1.3	1.5
1979-1981 (1980)	15.4	18.2	12.6	10.9	1.4	1.7
1972-1974 (1973)	22.2	25.0	17.7	15.8	1.4	1.6
1954-1956 (1955)	62.7		26.4	23.6		

<sup>1</sup>Adjusted – specifies a rate or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Reservation State data for 1955, the year IHS was established, are presented above. Data from 1972 forward are drawn from specific counties in the IHS service area. Reservation State data and county data are not directly comparable. AI/AN death rate columns present data for the three-year period specified. U.S. All-Races and U.S. White columns present data for a one-year period.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.

The neonatal mortality rate for AI/AN in 2002-2004 (4.5 deaths per 1,000 live births) was 2 percent lower than the U.S. all-races rate (4.6) and 15 percent higher than the U.S. white rate (3.9) for 2003. AI/AN fare much worse in comparison during the postneonatal period. The postneonatal rate for AI/AN (4.2) was 1.9 and 2.3 times the U.S. all-races (2.2) and U.S. white (1.8) populations' rates, respectively. These AI/AN rates have been adjusted to compensate for misreporting of AI/AN race on state death certificates.

**Chart 3.9 Infant Mortality Rates by Age**

*Per 1,000 Live Births*



Table 3.9 Infant Mortality Rates by Age

*American Indians and Alaska Natives, IHS Service Area, and U.S. All-Races and White Populations, 1973-2003 (Rate per 1,000 Live Births)*

Calendar Year(s)	AMERICAN INDIAN AND ALASKA NATIVE					
	Infant Mortality Rates		Neonatal Under 28 Days		Postneonatal 28 Days-11 Months	
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>
2002-2004	7.4	8.3	3.7	4.5	3.7	4.2
2001-2003	7.4	8.6	3.5	4.3	3.9	4.4
2000-2002	7.2	8.5	3.6	4.4	3.6	4.1
1999-2001	7.2	8.8	3.5	4.3	3.8	4.3
1998-2000	7.3	8.7	3.6	4.2	3.7	4.2
1997-1999	7.5	8.8	3.5	4.3	3.8	4.3
1996-1998	7.6	8.9	3.6	4.4	3.9	4.4
1995-1997	7.1	8.5	3.4	4.0	3.7	4.4
1994-1996	7.6	9.3	3.6	4.5	4.0	4.8
1993-1995	8.0	9.7	3.8	4.6	4.2	5.1
1992-1994	8.7	10.9	4.1	5.2	4.6	5.8
1991-1993	8.8	10.9	4.0	4.9	4.9	6.0
1990-1992	9.4	11.7	4.3	5.3	5.1	6.4
1989-1991	10.2	12.1	4.7	5.4	5.5	6.7
1988-1990	10.6	12.5	4.8	5.6	5.8	7.0
1987-1989	11.0	12.7	5.1	5.5	5.9	7.1
1986-1988	11.1	12.9	5.2		5.9	
1985-1987	11.1	13.3	5.3		5.9	
1984-1986	11.1	13.4	5.0		6.0	
1983-1985	11.1	13.5	5.1		6.0	
1982-1984	11.5	13.9	5.1		6.4	
1981-1983	12.3	14.7	5.3		7.0	
1980-1982	13.2	15.8	5.9		7.3	
1979-1981	15.4	18.2	7.2		8.1	
1972-1974	22.2	25.0	10.2		12.0	

Calendar Year(s)	U.S. ALL RACES					
	Infant Mortality Rates	Neonatal Under 28 Days	Postneonatal 28 Days-11 Months	Infant Mortality Rates	Neonatal Under 28 Days	Postneonatal 28 Days-11 Months
	2003	6.9	4.6	2.2	5.7	3.9
2002	7.0	4.7	2.3	5.8	3.9	1.9
2001	6.9	4.5	2.3	5.7	3.8	1.9
2000	6.9	4.6	2.3	5.7	3.8	1.9
1999	7.1	4.7	2.3	5.8	3.8	1.9
1998	7.2	4.8	2.4	6.0	3.9	2.0
1997	7.2	4.8	2.5	6.0	4.0	2.0
1996	7.3	4.8	2.6	6.1	4.0	2.1
1995	7.6	4.9	2.7	6.3	4.1	2.2
1994	8.0	5.1	2.9	6.6	4.2	2.4
1993	8.4	5.3	3.1	6.8	4.3	2.5
1992	8.5	5.4	3.1	6.9	4.4	2.6
1991	8.9	5.6	3.4	7.3	4.5	2.8
1990	9.2	5.9	3.4	7.7	4.8	2.8
1989	9.8	6.2	3.6	8.2	5.2	2.9
1988	10.0	6.3	3.6	8.5	5.3	3.1
1987	10.1	6.5	3.6	8.6	5.4	3.1
1986	10.4	6.7	3.6	8.9	5.7	3.1
1985	10.6	7.0	3.7	9.3	6.0	3.2
1984	10.8	7.0	3.8	9.4	6.1	3.2
1983	11.2	7.3	3.9	9.7	6.3	3.3
1982	11.5	7.7	3.8	10.1	6.7	3.3
1981	11.9	8.0	3.9	10.5	7.0	3.4
1980	12.6	8.5	4.1	11.0	7.4	3.5
1973	17.7	13.0	4.7	15.8	11.8	4.0

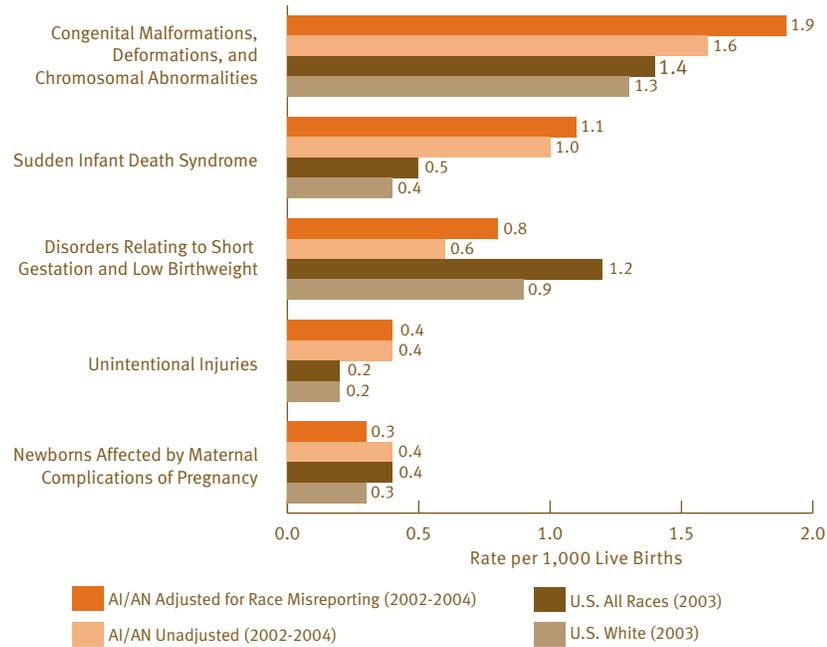
<sup>1</sup>Adjusted – specifies a rate or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Data from 1972 forward, shown above, are drawn from specific counties in the IHS service area for infant mortality by age. Adjusted rates to compensate for misreporting of AI/AN race on state death certificates are currently unavailable for AI/AN neonatal and postneonatal mortality for data years 1972-1986.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention, CDC Wonder. <http://wonder.cdc.gov/>.

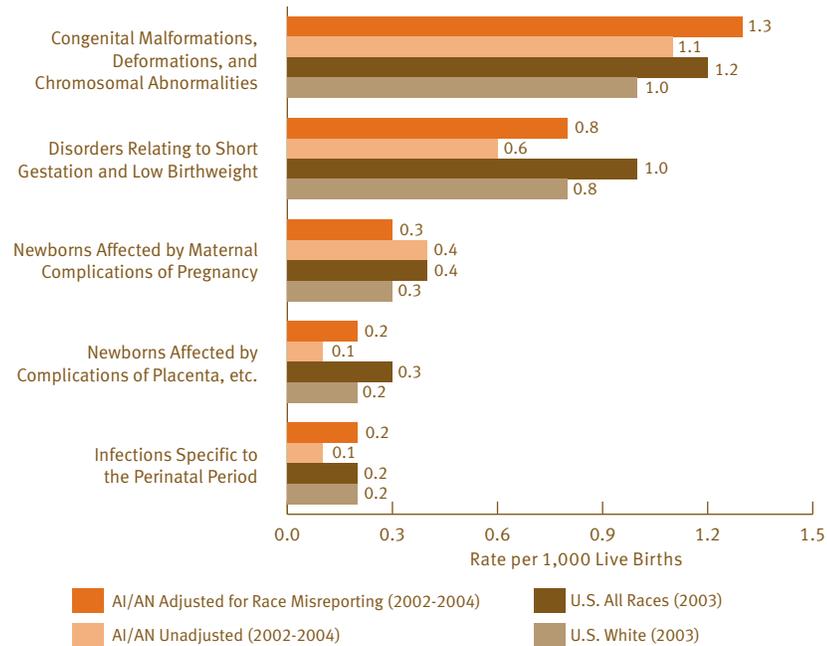
The two leading causes of AI/AN infant deaths (2002-2004) were congenital malformations, deformations, and chromosomal abnormalities and sudden infant death syndrome (SIDS). For the U.S. all-races population (2003), they were congenital malformations, deformations, and chromosomal abnormalities and disorders relating to short gestation and low birthweight and for the U.S. white population (2003) they were congenital malformations, deformations, and chromosomal abnormalities and disorders relating to short gestation and low birthweight.

Chart 3.10 Leading Causes of Infant Deaths (Birth to Under 1 Year)



The two leading causes of AI/AN neonatal deaths (2002-2004) and the U.S. all-races and white populations in 2003 were congenital malformations, deformations, and chromosomal abnormalities and disorders relating to short gestation and low birthweight. The AI/AN adjusted rates for newborns affected by complications of placenta, etc. and infections specific to the perinatal period are the same at 0.2 per 1,000 live births.

Chart 3.11 Leading Causes of Neonatal Deaths (Under 28 Days)



The two leading causes of AI/AN postneonatal deaths (2002-2004) and the U.S. all-races and white populations in 2003 were sudden infant death syndrome (SIDS) and congenital malformations, deformations, and chromosomal abnormalities.

**Chart 3.12** Leading Causes of Postneonatal Deaths (28 Days to Under 1 Year)

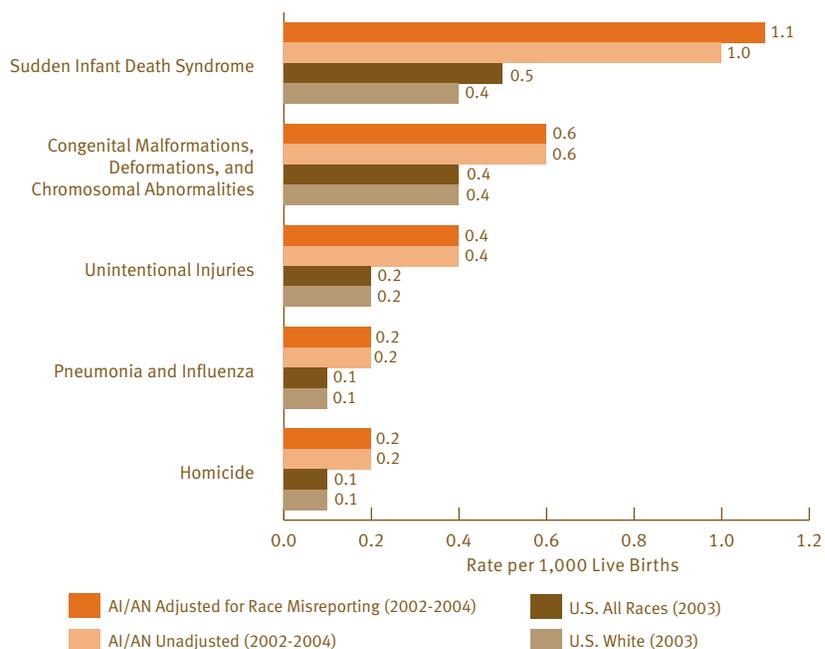


Table 3.10 Leading Causes of Infant Deaths by Age

American Indians and Alaska Natives, IHS Service Area, 2002-2004, and U.S. All-Races and White Populations, 2003  
(Rate per 1,000 Live Births)

Cause of Death	AMERICAN INDIAN AND ALASKA NATIVE				U.S.	U.S.	RATIO OF AMERICAN INDIAN AND ALASKA NATIVE <sup>1</sup> TO:	
	Number		Rate		ALL RACES	WHITE	U.S.	U.S.
	Unadjusted	Adjusted <sup>1</sup>	Unadjusted	Adjusted <sup>1</sup>	Rate	Rate	All Races	White
<b>Total Infant Deaths</b>								
<i>All Causes</i>	<i>802</i>	<i>902</i>	<i>7.3</i>	<i>8.3</i>	<i>6.9</i>	<i>5.7</i>	<i>1.2</i>	<i>1.5</i>
Congenital malformations, deformations, and chromosomal abnormalities	178	207	1.6	1.9	1.4	1.3	1.4	1.5
Sudden infant death syndrome	112	122	1.0	1.1	0.5	0.4	2.2	2.8
Disorders relating to short gestation and low birthweight	70	87	0.6	0.8	1.2	0.9	0.7	0.9
Unintentional injuries	48	46	0.4	0.4	0.2	0.2	2.0	2.0
Newborns affected by maternal complications of pregnancy	40	35	0.4	0.3	0.4	0.3	0.8	1.0
Pneumonia and influenza	27	25	0.3	0.2	0.1	0.1	2.0	2.0
Newborns affected by complications of placenta, cord, and membranes	17	24	0.2	0.2	0.3	0.2	0.7	1.0
Homicide	24	23	0.2	0.2	0.1	0.1	2.0	2.0
Disease of the circulatory system	24	23	0.2	0.2	0.1	0.1	2.0	2.0
Intrauterine hypoxia and birth asphyxia	16	18	0.2	0.2	0.1	0.1	2.0	2.0
<i>All other causes</i>	<i>246</i>	<i>292</i>						
<b>Neonatal Deaths</b>								
<i>All Causes</i>	<i>400</i>	<i>449</i>	<i>3.7</i>	<i>4.1</i>	<i>4.6</i>	<i>3.9</i>	<i>0.9</i>	<i>1.1</i>
Congenital malformations, deformations, and chromosomal abnormalities	118	137	1.1	1.3	1.2	1.0	1.0	1.3
Disorders relating to short gestation and low birthweight	69	85	0.6	0.8	1.0	0.8	0.8	1.0
Newborns affected by maternal complications of pregnancy	40	35	0.4	0.3	0.4	0.3	0.8	1.1
Newborns affected by complications of placenta, cord, and membranes	16	22	0.1	0.2	0.3	0.2	0.7	1.0
Infections specific to the perinatal period	16	21	0.1	0.2	0.2	0.2	1.0	1.0
Intrauterine hypoxia and birth asphyxia	15	17	0.1	0.2	0.1	0.1	1.6	1.6
Neonatal hemorrhage	14	12	0.1	0.1	0.2	0.1	0.6	1.1
Diseases of the circulatory system	9	9	0.1	0.1	0.0	0.0	*	*
Respiratory distress syndrome	9	11	0.1	0.1	0.2	0.2	0.5	0.5
Sudden infant death syndrome	4	4	0.0	0.0	0.0	0.0	*	*
<i>All other causes</i>	<i>90</i>	<i>96</i>						
<b>Postneonatal Deaths</b>								
<i>All Causes</i>	<i>402</i>	<i>453</i>	<i>3.7</i>	<i>4.2</i>	<i>2.2</i>	<i>1.8</i>	<i>1.9</i>	<i>2.3</i>
Sudden infant death syndrome	108	118	1.0	1.1	0.5	0.4	2.2	2.7
Congenital malformations, deformations, and chromosomal abnormalities	60	70	0.6	0.6	0.4	0.4	1.6	1.6
Unintentional injuries	44	42	0.4	0.4	0.2	0.2	1.9	1.9
Pneumonia and influenza	25	23	0.2	0.2	0.1	0.1	2.1	2.1
Homicide	20	19	0.2	0.2	0.1	0.1	1.8	1.8
Disease of the circulatory system	15	14	0.1	0.1	0.1	0.1	1.3	1.3
Septicemia	10	13	0.1	0.1	0.1	0.0	1.2	*
Meningitis	3	5	0.0	0.0	0.0	0.1	*	0.5
Respiratory distress syndrome	2	2	0.0	0.0	0.0	0.0	*	*
Acute bronchitis and acute bronchiolitis	2	2	0.0	0.0	0.0	0.0	*	*
<i>All other causes</i>	<i>113</i>	<i>145</i>						

\*Figure does not meet standards of reliability or precision.

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup>Adjusted – specifies a number, rate, or ratio of rates adjusted to compensate for misreporting of AI/AN race on state death certificates.

NOTE: Causes of death listed are based on the order of adjusted number of deaths.

SOURCE: Rates for U.S. All Races and U.S. White: Centers for Disease Control and Prevention. CDC Wonder. <http://wonder.cdc.gov/>.