PART 3 - NATALITY AND INFANT/MATERNAL MORTALITY STATISTICS

Chart 3.1 Birth Rates

The American Indian and Alaska Native birth rate for 1991-1993 of 26.6 births per 1,000 population was 67 percent greater than the U.S. All Races birth rate for 1992 of 15.9, and 77 percent greater than the rate for the U.S. White population (15.0).

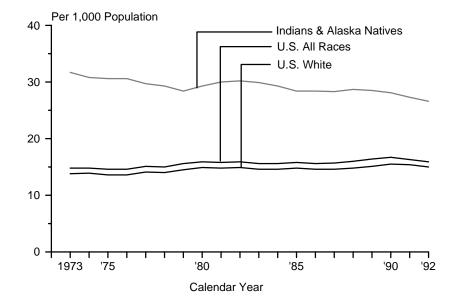


Table 3.1Number and Rate of LiveBirths

American Indians and Alaska Natives, IHS Service Area, and U.S. All Races and White Populations, 1955-1993 Rate per 1,000 Population

Calendar	Indian and Alaska Native		U.S. All	Races	U.S. White	
Year(s)	Number	Rate	Number	Rate	Rate ¹	
(1993)	33,429					
1991–1993 (1992)	33,894	26.6	4,065,014	15.9	15.0	
1990–1992 (1991)	34,083	27.3	4,110,907	16.3	15.4	
1989–1991 (1990)	33,554	28.1	4,158,212	16.7	15.5	
1988–1990 (1989)	34,143	28.5	4,040,958	16.4	15.1	
1987-1989 (1988)	32,544	28.7	3,909,510	16.0	14.8	
1986–1988 (1987)	31,133	28.3	3,809,394	15.7	14.6	
1985–1987 (1986)	29,996	28.4	3,756,547	15.6	14.6	
1984–1986 (1985)	30,194	28.4	3,760,561	15.8	14.8	
1983–1985 (1984)	28,416	29.3	3,669,141	15.6	14.6	
1982–1984 (1983)	29,352	29.9	3,638,933	15.6	14.6	
1981–1983 (1982)	28,701	30.2	3,680,537	15.9	14.9	
1980–1982 (1981)	25,595	30.0	3,629,238	15.8	14.8	
1979–1981 (1980)	25,346	29.3	3,612,258	15.9	14.9	
1978–1980 (1979)	23,252	28.4	3,494,398	15.6	14.5	
1977–1979 (1978)	20,250	29.3	3,333,279	15.0	14.0	
1976–1978 (1977)	19,458	29.7	3,326,632	15.1	14.1	
1975–1977 (1976)	18,797	30.6	3,167,788	14.6	13.6	
1974–1976 (1975)	17,852	30.6	3,144,198	14.6	13.6	
1973–1975 (1974)	17,099	30.8	3,159,958	14.8	13.9	
1972–1974 (1973)	16,662	31.7	3,136,965	14.8	13.8	
(1972)	16,801		3,258,411			
1954–1956 (1955)	17,028	37.5	4,097,000	25.0	23.8	

¹ 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 is shown for years prior to 1991).

NOTE: Data are presented above for the year in which IHS was established (1955). For this year Reservation State data are shown. Starting in 1972 data are first available, and are shown above, for the specific counties in the IHS service area. Data for these two geographic boundary systems are not directly comparable. American Indian and Alaska Native birth rates are for the 3-year periods specified. Numbers of births and U.S. rates are for the single year specified.

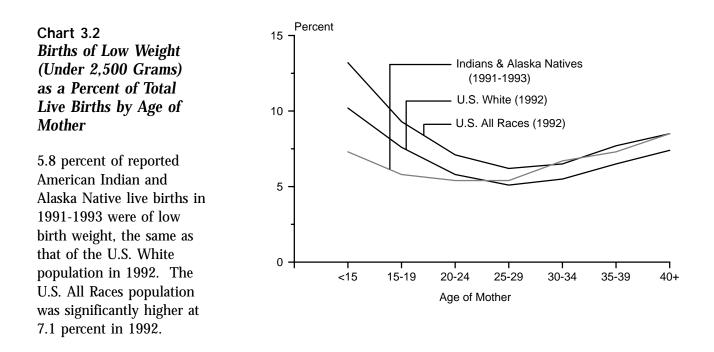


Table 3.2Births of Low Birth Weight (Under 2,500 Grams) by Age of Mother

American Indians and Alaska Natives, IHS Service Area, 1991-1993, and U.S. All Races and White Populations, 1992

	Indian	Indian and Alaska Native		U.S. All Races			U.S. White		
Age of Mother	Total Live Births	Number Low Weight	Percent Low Weight	Total Live Births	Number Low Weight	Percent Low Weight	Total Live Births	Number Low Weight	Percent Low Weight
All Ages	¹ 101,226	5,911	5.8	¹ 4,060,531	287,493	7.1	¹ 3,198,525	185,662	5.8
Under 20 years	20,305	1,177	5.8	517,030	48,315	9.3	347,732	26,609	7.7
Under 15 years 15–19 years 20–24 years	385 19,972 33,547	28 1,149 1,820	7.3 5.8 5.4	12,189 504,841 1.069.314	1,608 46,707 76,290	13.2 9.3 7.1	5,352 342,380 813,671	548 26,061 47,398	10.2 7.6 5.8
25–29 years 30–34 years 35–39 years 40 years and over	24,989 15,020 6,125 1,188	1,358 1,005 450 101	5.4 6.7 7.3 8.5	1,178,054 894,309 344,212 57,612	73,223 58,428 26,343 4,894	6.2 6.5 7.7 8.5	963,698 744,785 282,279 46,360	49,242 40,643 18,329 3,441	5.0 5.1 5.5 6.5 7.4

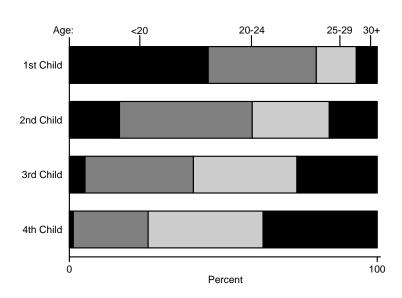
¹ Excludes 180 American Indian and Alaska Native live births, 4,483 U.S. All Races live births, and 3,153 U.S. White live births with birth weight not stated.

Chart 3.3 Birth Order by Age of Mother, Percent Within Birth Order, American Indians and Alaska Natives

For the Indian population, 45 percent of mothers were under age 20 when they had their first child while 20 percent were at least age 25.

Chart 3.4 Birth Order by Age of Mother, Percent Within Birth Order, U.S. All Races

For the U.S. All Races population, 24 percent of mothers were under age 20 when they had their first child while 46 percent were at least age 25.



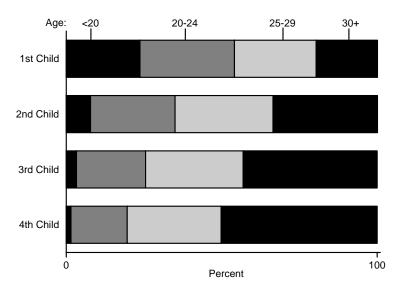


Chart 3.5 Birth Order by Age of Mother, Percent Within Birth Order, U.S. White

For the U.S. White population, 21 percent of mothers were under age 20 when they had their first child while 49 percent were at least age 25.

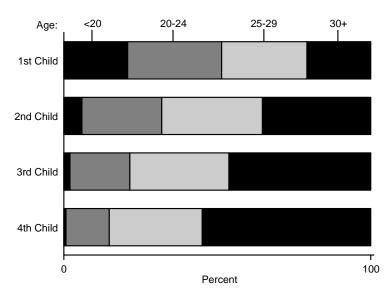


Table 3.3 Number and Percent Distribution of Live Births

By Age of Mother Within Birth Order

	Total -		Live Birth Order							
Age Group	Live Births	1st Child	2nd Child	3rd Child	4th Child	5th Child	6th+ Child			
American Indian and Alaska Native, IHS Service Area, 1991–1993										
All Ages	¹ 101,019	32,915	26,603	18,608	11,166	5,976	5,751			
All Ages	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
Under 20 years 20–24 years 25–29 years 30–34 years 35–39 years 40–49 years	20.1 33.2 24.7 14.8 6.0 1.2	45.1 35.1 13.0 5.1 1.4 0.3	16.3 43.1 25.0 11.5 3.6 0.5	5.1 35.2 33.6 18.6 6.5 1.0	1.3 24.3 37.3 25.2 10.2 1.7	0.3 15.0 34.9 31.3 15.5 3.0	5.7 26.1 36.4 24.8 7.0			
		U.:	S. All Races, 199	92						
All Ages	² 4,046,559	1,632,448	1,311,397	665,150	260,751	98,448	78,365			
All Ages	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
Under 20 years 20–24 years 25–29 years 30–34 years 35–39 years 40–49 years	12.7 26.3 29.0 22.0 8.5 1.4	23.7 30.4 26.3 14.5 4.5 0.7	7.8 27.2 31.5 24.3 8.2 1.1	3.3 22.2 31.4 29.4 12.0 1.7	1.5 18.1 30.2 31.5 15.8 2.9	0.5 13.8 28.5 32.7 19.9 4.6	0.1 6.2 21.2 33.6 28.4 10.6			
		ι	J.S. White, 1992							
All Ages	³ 3,188,147	1,307,908	1,056,557	517,417	190,948	66,236	49,081			
All Ages	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
Under 20 years 20–24 years 25–29 years 30–34 years 35–39 years 40–49 years	10.9 25.5 30.1 23.3 8.8 1.4	20.8 30.6 27.8 15.3 4.8 0.7	5.9 26.0 32.8 25.7 8.5 1.1	2.0 19.5 32.3 31.7 12.7 1.8	0.7 14.1 30.3 34.4 17.3 3.2	0.2 9.3 27.0 35.7 22.6 5.2	0.1 3.5 17.0 34.6 32.3 12.5			

¹ Excludes 387 American Indian and Alaska Native births (0.4 percent) with birth order not reported.
 ² Excludes 18,455 U.S. All Races births (0.5 percent) with birth order not reported.
 ³ Excludes 13,531 U.S. White births (0.4 percent) with birth order not reported.

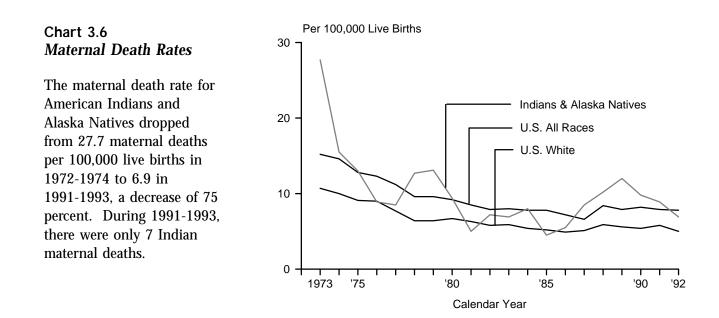


Table 3.6Maternal Deaths and Death Rates

American Indians and Alaska Natives, IHS Service Area, and U.S. All Races and White Populations, 1958-1993 Rate per 100,000 Live Births

Calendar _	Indian and Ala	Indian and Alaska Native		U.S. All Races		Ratio of Indian to:		
Year(s)	Number	Rate	Number	Rate	Rate	U.S. All Races	U.S. White	
(1993)	2							
1991–1993 (1992)	2 2	6.9	318	7.8	5.0	0.9	1.4	
1990–1992 (1991)	3	8.9	323	7.9	5.8	1.1	1.5	
1989–1991 (1990)	4	9.8	343	8.2	5.4	1.2	1.8	
1988–1990 (1989)	3	12.0	320	7.9	5.6	1.5	2.1	
1987–1989 (1988)	5	10.2	330	8.4	5.9	1.2	1.7	
1986–1988 (1987)	2	8.5	251	6.6	5.1	1.3	1.7	
1985–1987 (1986)	1	5.5	272	7.2	4.9	0.8	1.1	
1984–1986 (1985)	2	4.5	295	7.8	5.2	0.6	0.9	
1983–1985 (1984)	1	8.0	285	7.8	5.4	1.0	1.5	
1982–1984 (1983)	4	6.9	290	8.0	5.9	0.9	1.2	
1981–1983 (1982)	1	7.2	292	7.9	5.8	0.9	1.2	
1980–1982 (1981)	1	5.0	309	8.5	6.3	0.6	0.8	
1979–1981 (1980)	2	9.4	334	9.2	6.7	1.0	1.4	
1978–1980 (1979)	4	13.1	336	9.6	6.4	1.4	2.0	
1977–1979 (1978)	3	12.7	321	9.6	6.4	1.3	2.0	
1976–1978 (1977)	1	8.5	373	11.2	7.7	0.8	1.1	
1975–1977 (1976)	1	8.9	390	12.3	9.0	0.7	1.0	
1974–1976 (1975)	3	13.0	340	12.8	9.1	1.0	1.4	
1973–1975 (1974)	3	15.5	462	14.6	10.0	1.1	1.6	
1972–1974 (1973)	2	27.7	477	15.2	10.7	1.8	2.6	
(1972)	9							
1957–1959 (1958)	16	82.6	1,581	37.6	26.3	2.2	3.1	

NOTE: Data are presented above for the year in which maternal mortality 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. Starting in 1972 data are first available, and are shown above, for the specific counties in the IHS service area. Data for these two geographic boundary systems are not directly comparable. American Indian and Alaska Native maternal mortality rates are for the 3-year periods specified. Numbers of deaths and U.S. rates are for the single years specified. Maternal deaths include deaths with ICD-9 codes 630–676.

Chart 3.7 Infant Mortality Rates

The infant mortality rate for American Indians and Alaska Natives dropped from 22.2 infant deaths per 1,000 live births in 1972-1974 to 8.8 in 1991-1993, a decrease of 60 percent. The U.S. All Races and White populations' rates for 1992 were 8.5 and 6.9, respectively.

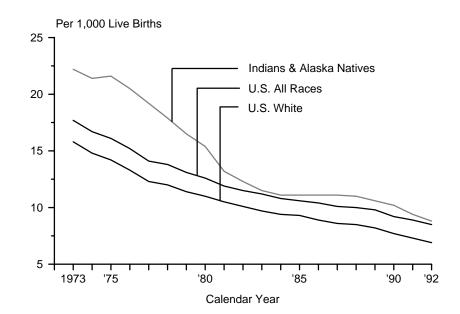


Table 3.7Infant Mortality Rates

American Indians and Alaska Natives, IHS Service Area, and U.S. All Races and White Populations, 1955-1992 Rate per 1,000 Live Births

				Alaska Nat	tive to:
Calendar	Indian and	U.S.	U.S.	U.S.	U.S.
Year(s)	Alaska Native	All Races	White	All Races	White
1991–1993 (1992) 1990–1992 (1991) 1989–1991 (1990) 1988–1990 (1989) 1987–1989 (1988) 1986–1988 (1987) 1985–1987 (1986) 1984–1986 (1985) 1983–1985 (1984) 1982–1984 (1983) 1981–1983 (1982) 1980–1982 (1981) 1979–1981 (1980) 1977–1979 (1978) 1976–1978 (1977) 1975–1977 (1976) 1974–1976 (1975)	8.8 9.4 10.2 10.6 11.0 11.1 11.1 11.1 11.5 12.3 13.2 15.4 16.5 17.9 19.2 20.5 21.6 21.4	8.5 8.9 9.2 9.8 10.0 10.1 10.4 10.6 10.8 11.2 11.5 11.9 12.6 13.1 13.8 14.1 15.2 16.1 16.7	6.9 7.3 7.7 8.2 8.5 8.6 8.9 9.3 9.4 9.7 10.1 10.5 11.0 11.4 12.0 12.3 13.3 14.2 14.8	1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1	1.3 1.3 1.3 1.3 1.3 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2
1972–1974 (1973)	22.2	17.7	15.8	1.3	1.4
1954–1956 (1955)	62.7	26.4	23.6	2.4	2.7

Ratio of Indian and

NOTE: Data are presented above for the year in which IHS was established (1955). For this year Reservation State data are shown. Starting in 1972 data are first available, and are shown above, for the specific counties in the IHS service area. Data for these two geographic boundary systems are not directly comparable. American Indian and Alaska Native rates are for the 3-year periods specified. U.S. rates are for the single years specified.

Chart 3.8 Infant Mortality Rates by Age

The neonatal mortality rate for American Indians and Alaska Natives in 1991-1993 was 26 percent lower than the U.S. All Races rate and 7 percent lower than the U.S. White rate for 1992. On the contrary, the postneonatal rate for Indians was 1.6 and 1.9 times the U.S. All Races and White populations' rates, respectively.

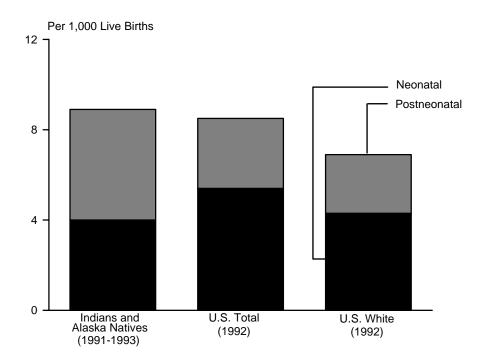


Table 3.8Infant Mortality Rates by Age

American Indians and Alaska Natives, IHS Service Area, 1972-74 to 1991-93, and U.S. All Races and White Populations, 1973-1992

Rate per 1,000 Live Births

American Indian and Alaska Native

Calendar Years	Infant Mortality Rate	Neonatal Under 28 Days	Postneonatal 28 Days– 11 Months
1991–1993 1990–1992 1989–1991 1988–1990 1987–1989 1986–1988 1985–1987 1984–1986 1983–1985 1982–1984 1981–1983 1980–1982	8.8 9.4 10.2 10.6 11.0 11.1 11.1 11.1 11.1 11.5 12.3 13.2	4.0 4.3 4.7 4.8 5.1 5.2 5.3 5.0 5.1 5.1 5.1 5.3 5.9	4.9 5.1 5.5 5.8 5.9 5.9 6.0 6.0 6.4 7.0 7.3
1979–1981 1978–1980 1977–1979 1976–1978 1975–1977 1974–1976 1973–1975 1972–1974	15.4 16.5 17.9 19.2 20.5 21.6 21.4 22.2	7.2 8.2 8.9 9.3 10.0 10.4 10.4 10.2	8.1 8.4 9.0 10.5 11.2 11.1 12.0

		U.S. All Races	6	U.S. White				
Calendar Year	Infant Mortality Rate	Neonatal Under 28 Days	Postneonatal 28 Days– 11 Months	Infant Mortality Rate	Neonatal Under 28 Days	Postneonatal 28 Days– 11 Months		
1992	8.5	5.4	3.1	6.9	4.3	2.6		
1991	8.9	5.6	3.4	7.3	4.5	2.8		
1990	9.2	5.8	3.4	7.7	4.9	2.8		
1989	9.8	6.2	3.6	8.2	5.2	3.0		
1988	10.0	6.3	3.7	8.5	5.4	3.1		
1987	10.1	6.5	3.6	8.6	5.5	3.1		
1986	10.4	6.7	3.6	8.9	5.8	3.1		
1985	10.6	7.0	3.7	9.3	6.1	3.2		
1984	10.8	7.0	3.8	9.4	6.2	3.3		
1983	11.2	7.3	3.9	9.7	6.4	3.3		
1982	11.5	7.7	3.8	10.1	6.8	3.3		
1981	11.9	8.0	3.9	10.5	7.1	3.4		
1980	12.6	8.5	4.1	11.0	7.5	3.5		
1979	13.1	8.9	4.2	11.4	7.9	3.5		
1978	13.8	9.5	4.3	12.0	8.4	3.6		
1977	14.1	9.9	4.2	12.3	8.7	3.6		
1976	15.2	10.9	4.3	13.3	9.7	3.6		
1975	16.1	11.6	4.5	14.2	10.4	3.8		
1974	16.7	12.3	4.4	14.8	11.1	3.7		
1973	17.7	13.0	4.7	15.8	11.8	4.0		

NOTE: Starting in 1972 data on infant mortality by age are first available, and are shown above, for the specific counties in the IHS service area.

Chart 3.9 Leading Causes of Infant Deaths (Birth to Under 1 Year)

The two leading causes of infant deaths for American Indians and Alaska Natives (1991-1993) were sudden infant death syndrome (SIDS) and congenital anomalies. For the U.S. All Races and White populations (1992), the order was reversed.

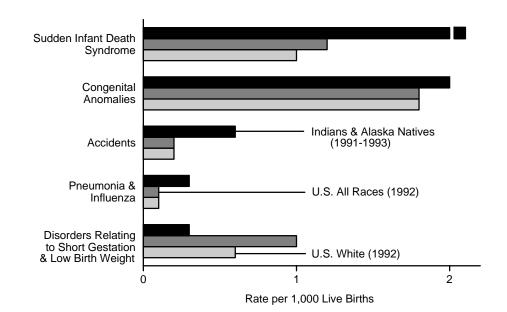
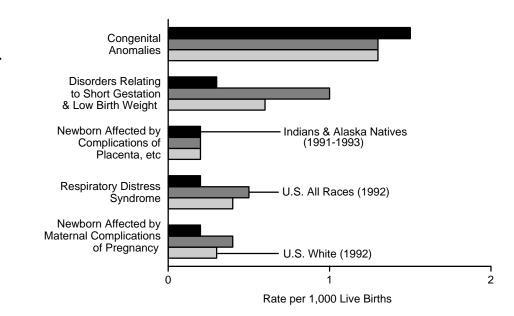


Chart 3.10 Leading Causes of Neonatal Deaths (Under 28 Days)

The two leading causes of neonatal deaths for American Indians and Alaska Natives (1991-1993) and the U.S. All Races and White populations (1992) were congenital anomalies and disorders related to short gestation and low birth weight.



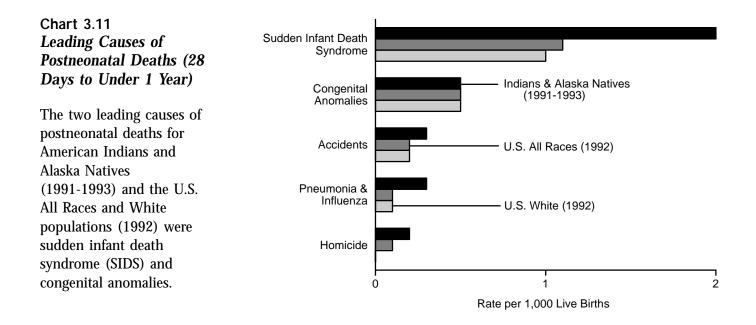


Table 3.9Leading Causes of Infant Deaths by Age

American Indians and Alaska Natives, IHS Service Area, 1991-1993, and U.S. All Races and White Populations, 1992

Rate per 1,000 Live Births

	American Indian and Alaska Native		U.S. All	U.S.	Ratio of American Indian and Alaska Native to:	
Cause of Death and ICD-9 Code(s)	Number	Rate	Races Rate	White Rate	U.S. All Races	U.S. White
Tot	al Infant Death	5				
All Causes	895	8.8	8.5	6.9	1.0	1.3
Sudden infant death syndrome, 798.0 Congenital anomalies, 740–759 Accidents, E800–E949 Pneumonia and influenza, 480–487 Disorders relating to short gestation and low birthweight, 765 Respiratory distress syndrome, 769	217 206 62 35 30 29	2.1 2.0 0.6 0.3 0.3 0.3	1.2 1.8 0.2 0.1 1.0 0.5	1.0 1.8 0.2 0.1 0.6 0.4	1.8 1.1 3.0 3.0 0.3 0.6	2.1 1.1 3.0 3.0 0.5 0.8
 Newborn affected by complications of placenta, cord, and membranes, 762 Newborn affected by maternal complications of pregnancy, 761 Homicide, E960-E969 Intrauterine hypoxia and birth asphyxia, 768 All other causes 	24 22 16 13 241	0.2 0.2 0.2 0.1	0.2 0.4 0.1 0.2	0.2 0.3 0.1 0.1	1.0 0.5 2.0 0.5	1.0 0.7 2.0 1.0
N	eonatal Deaths					
All Causes	402	4.0	5.4	4.3	0.7	0.9
Congenital anomalies, 740–759 Disorders relating to short gestation and low birthweight, 765 Newborn affected by complications of placenta, cord, and	151 29	1.5 0.3	1.3 1.0	1.3 0.6	1.2 0.3	1.2 0.5
membranes, 762 Respiratory distress syndrome, 769 Newborn affected by maternal complications of pregnancy, 761 Sudden infant death syndrome, 798.0	24 24 19 14	0.2 0.2 0.2 0.1	0.2 0.5 0.4 0.1	0.2 0.4 0.3 0.1	1.0 0.4 0.5 1.0	1.0 0.5 0.7 1.0
Intrauterine hypoxia and birth asphyxia, 768 Infections specific to the perinatal period, 771 Pneumonia and influenza, 480-487	12 11 7	0.1 0.1 0.1	0.1 0.2 0.0	0.1 0.2 0.0	1.0 0.5 *	1.0 0.5 *
Newborn affected by maternal conditions which may be unrelated to present pregnancy, 760 All other causes	6 105	0.1	0.0	0.0	*	*
Pos	tneonatal Death	าร				
All Causes	493	4.9	3.1	2.6	1.6	1.9
Sudden infant death syndrome, 798.0 Congenital anomalies, 740–759 Accidents, E800–E949 Pneumonia and influenza, 480–487 Homicide, E960–E969 Septicemia, 038 Meningitis, 320–322 Viral diseases, 045–079 Bronchitis and bronchiolitis, 466, 490–491	203 55 33 28 16 7 7 5 5	2.0 0.5 0.3 0.2 0.1 0.1 0.0 0.0	1.1 0.5 0.2 0.1 0.1 0.1 0.0 0.0 0.0	1.0 0.5 0.2 0.1 0.0 0.0 0.0 0.0 0.0 0.0	1.8 1.0 1.5 3.0 2.0 1.0 *	2.0 1.0 1.5 3.0 * * *
Respiratory distress syndrome, 769 All other causes	5 129	0.0	0.0	0.0	*	*

NOTE: 0.0 Rounds to zero. * Not applicable.

SOURCE: National Center for Health Statistics (NCHS), U.S. infant mortality rates (all ages)—Monthly Vital Statistics Report, Advance Report of Final Mortality Statistics, 1992, Vol. 43 No. 6, Supplement, March 22, 1995, Table 25; and Infant mortality rates by age and race, 1992, unpublished, from NCHS.