

Delaware Vital Statistics Annual Report

Infant Mortality, 2010



Suggested Citation:

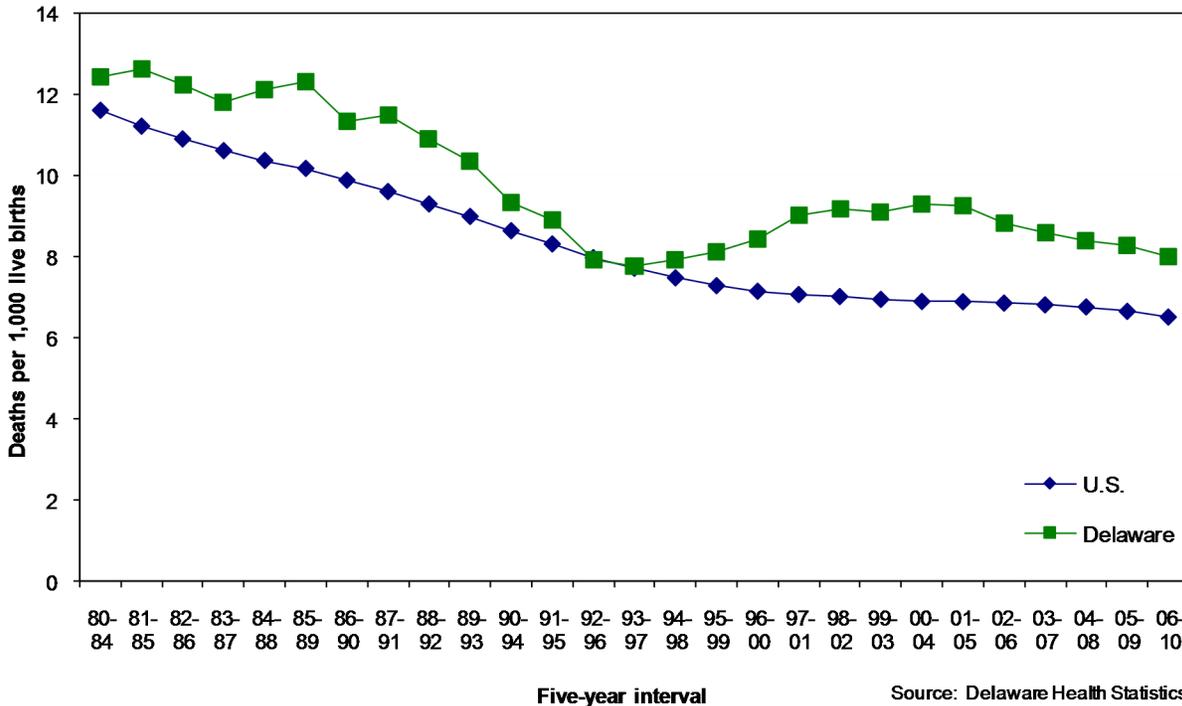
Delaware Health Statistics Center. *Delaware Vital Statistics Annual Report, 2010*.
Delaware Department of Health and Social Services, Division of Public Health: 2013.

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INFANT MORTALITY

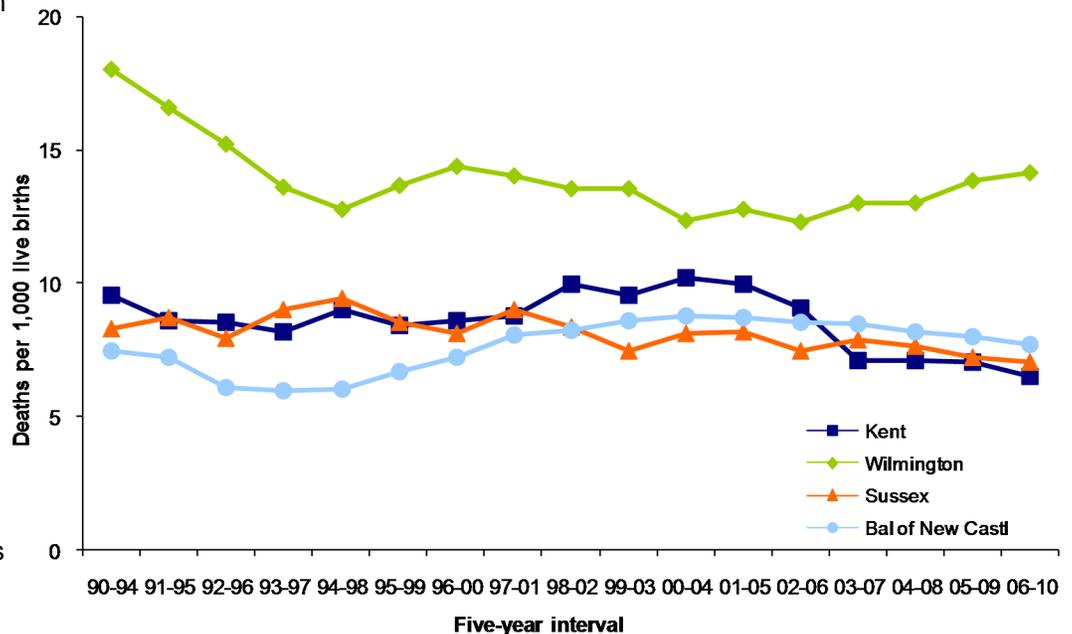
Between 2005-2009 and 2006-2010, Delaware's infant mortality rate (IMR) decreased to 8.0 infant deaths per 1,000 live births, resulting in a total decline of 13.7 percent from its 2000-2004 peak of 9.3 infant deaths per 1,000 live births. At 6.5, the U.S. rate remained significantly lower than the Delaware rate.

**Five-year Average Infant Mortality Rates
Delaware and U.S., 1980-2010**



Though IMRs for each of the three counties decreased in 2006-2010, Wilmington's IMR increased for the second straight year. The combination of Wilmington's high IMR and a higher IMR in the balance of New Castle County, resulted in New Castle County's IMR being higher than the IMRs of both Sussex and Kent Counties. In 2006-2010, the balance of New Castle County's IMR was 7.7, Wilmington's IMR was 14.1, Kent County's IMR was 6.5, and Sussex County's IMR was 7.

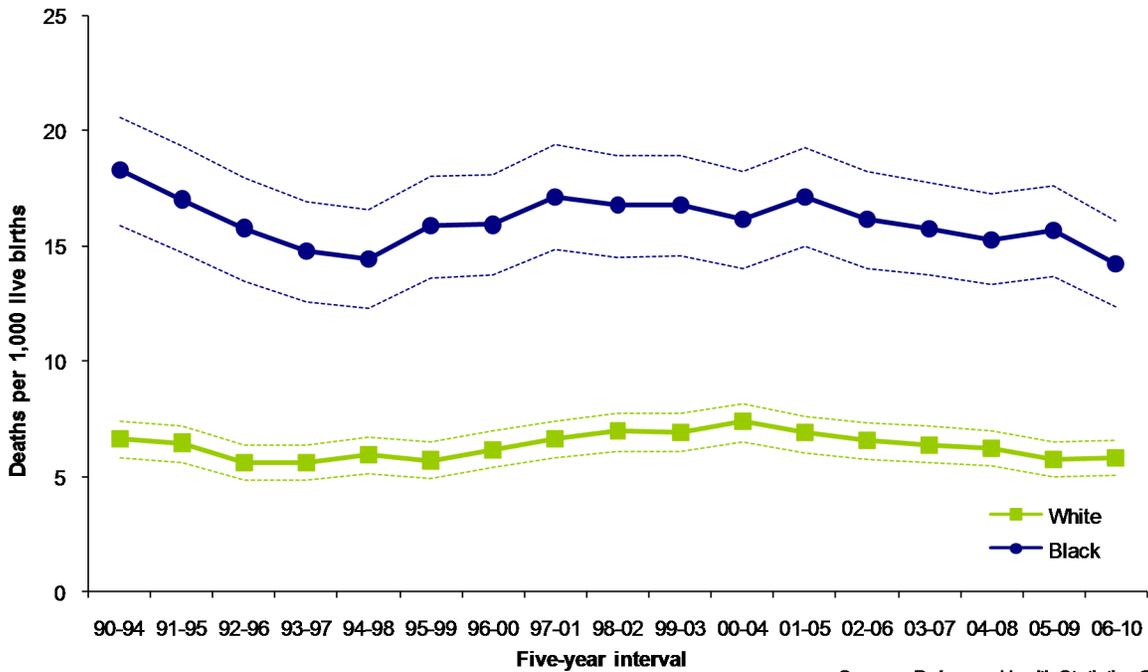
**Five-year Average Infant Mortality Rates
Delaware Counties and City of Wilmington, Delaware, 1990-2010**



INFANT MORTALITY

Black infants experienced significantly higher mortality rates than white infants, and from 1990-1994 to 2006-2010, black IMRs were anywhere from 2.2 to 2.8 times that of white IMRs.

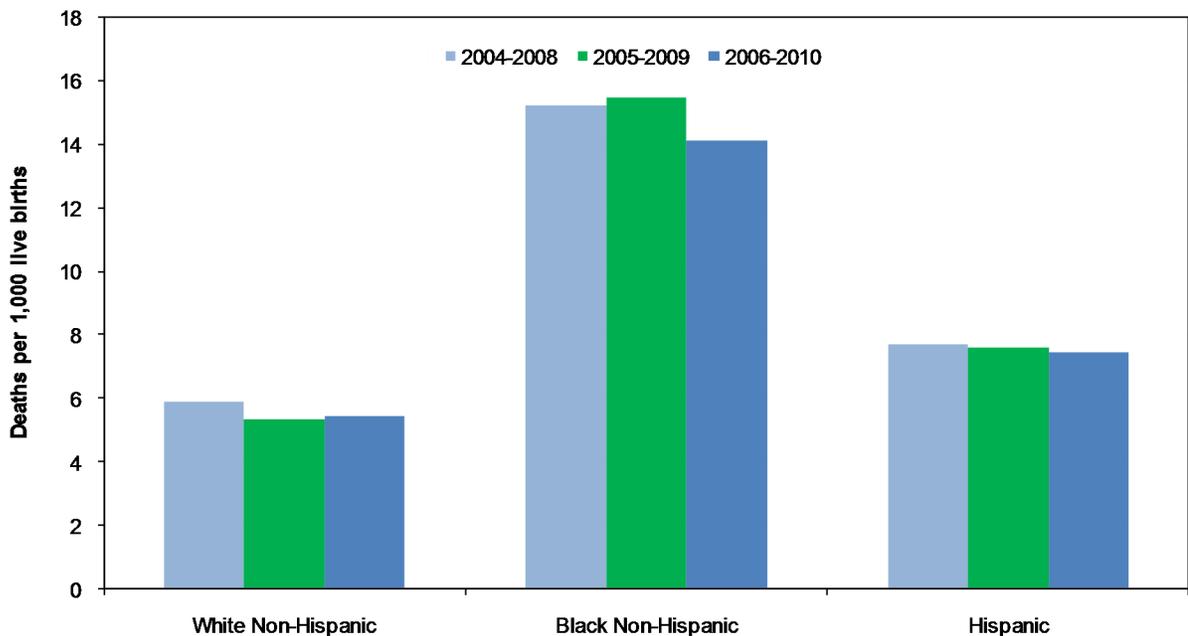
**Five-year Average Black and White Infant Mortality Rates with Confidence Intervals
Delaware, 1990-2010**



Source: Delaware Health Statistics Center

Significant disparities existed between black non-Hispanics and each of the two other groups, white non-Hispanics and Hispanics. Black non-Hispanics had the highest IMRs in all three time periods, and their rate of 14.1 in 2006-2010 was more than double the white non-Hispanic rate of 5.4 and nearly twice the Hispanic rate of 7.4 infant deaths per 1,000 live births.

**Five-year Average Infant Mortality Rates by Race and Hispanic Origin
Delaware, 2004-2010**



Source: Delaware Health Statistics Center

INFANT MORTALITY

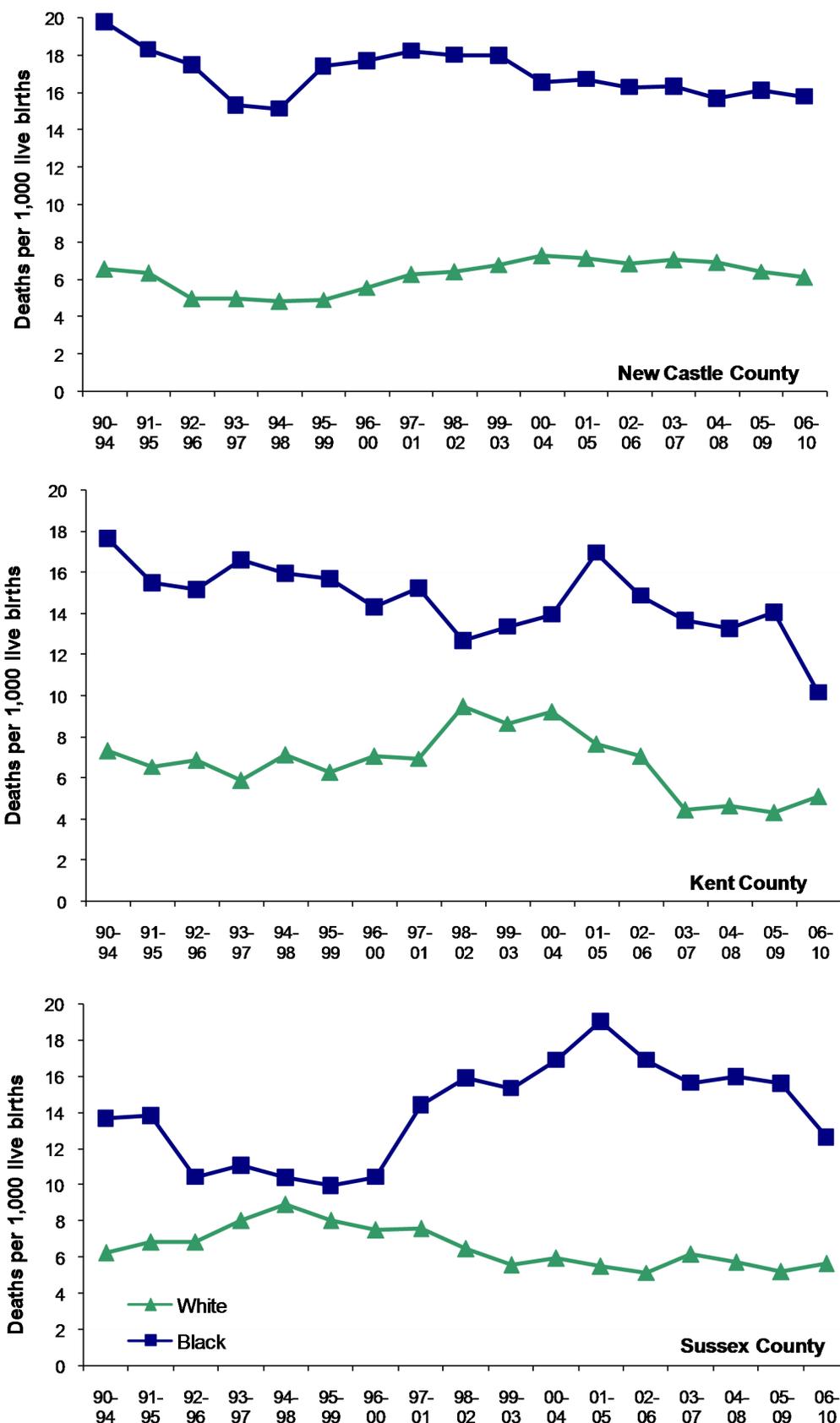
In 2006-2010, New Castle County had the highest IMRs and Kent County had the lowest.

Black IMRs in New Castle County have hovered around 16 since 2002-2006, and in 2006-2010 the black IMR was 15.8 infant deaths per 1,000 live births. White IMRs decreased for the third straight year to 6.1 in 2006-2010.

Black IMRs in Kent County peaked at 17 in 2001-2005; the recent drop in 2006-2010 resulted in a 40 percent reduction in black IMRs between 2001-2005 and 2006-2010. Despite increasing from their 2005-2009 rate, the white IMR in Kent County was 34 percent lower in 2006-2010 than in 2001-2005.

Sussex County's black IMR dropped to 12.6 in 2006-2010, its lowest rate since 1996-2000, and a 34 percent reduction from the 2001-2005 peak of 19. Sussex County's white IMR has fluctuated between 5 and 6 since 1999-2003, and in 2006-2010 the rate moved up to 5.4 infant deaths per 1,000 births.

**Five-year Average Infant Mortality Rates by Race and County
Delaware, 1990-2010**



Source: Delaware Health Statistics Center

INFANT MORTALITY- Leading Causes of Death

In 2006-2010 the five leading causes of infant death were:

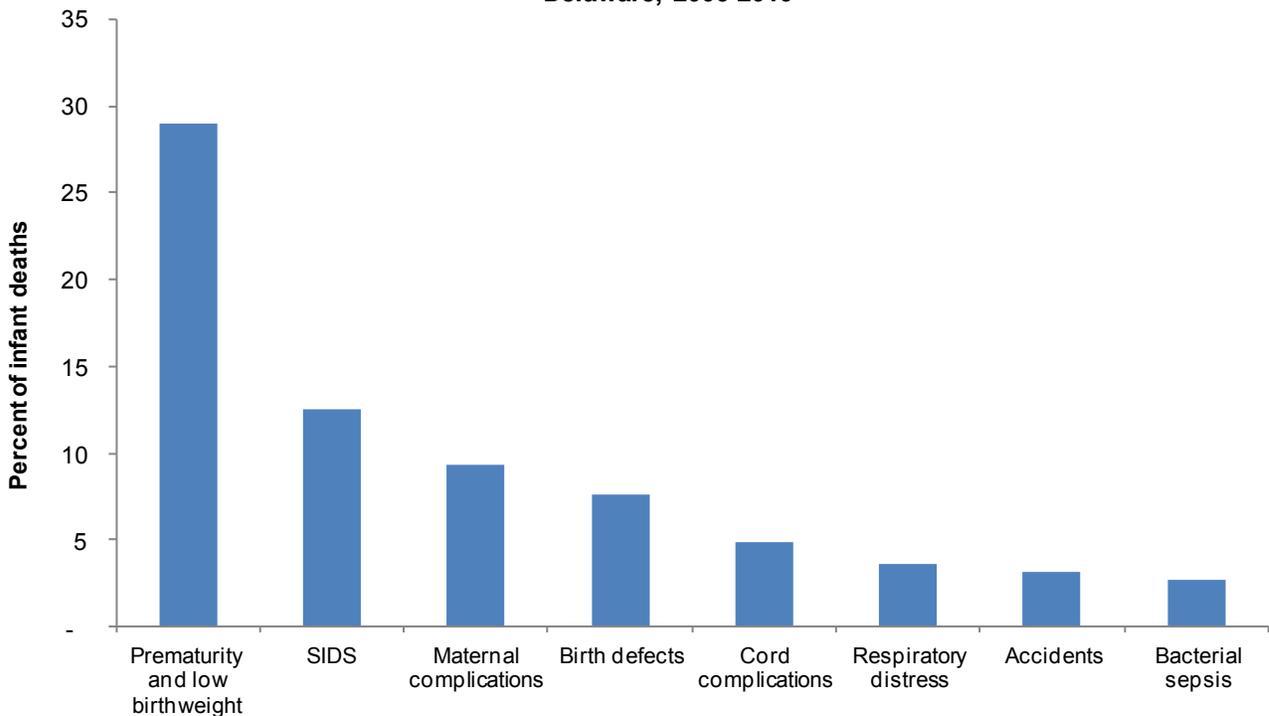
- Disorders related to short gestation and fetal malnutrition (prematurity and low birthweight), which accounted for 22.6 percent of infant deaths.
- Congenital anomalies (birth defects), which accounted for 14.9 percent of infant deaths.
- Sudden infant death syndrome (SIDS), which accounted for 10.4 percent.
- Newborn affected by maternal complications of pregnancy, which accounted for 8.9 percent of infant deaths. Of the 42 deaths attributed to this cause, 41 were due to the newborn being affected by incompetent cervix and premature rupture of membranes.
- Newborn affected by complications of placenta, cord, and membranes (4.9 percent).

In sum, the five most common causes of infant death accounted for 61.7 percent, or 290 of the 470 total infant deaths.

The most frequent causes of death by race are shown in the graphs below and on the following page. SIDS and disorders related to short gestation and low birthweight were listed in the top three most frequent causes of death for both black and white infants.

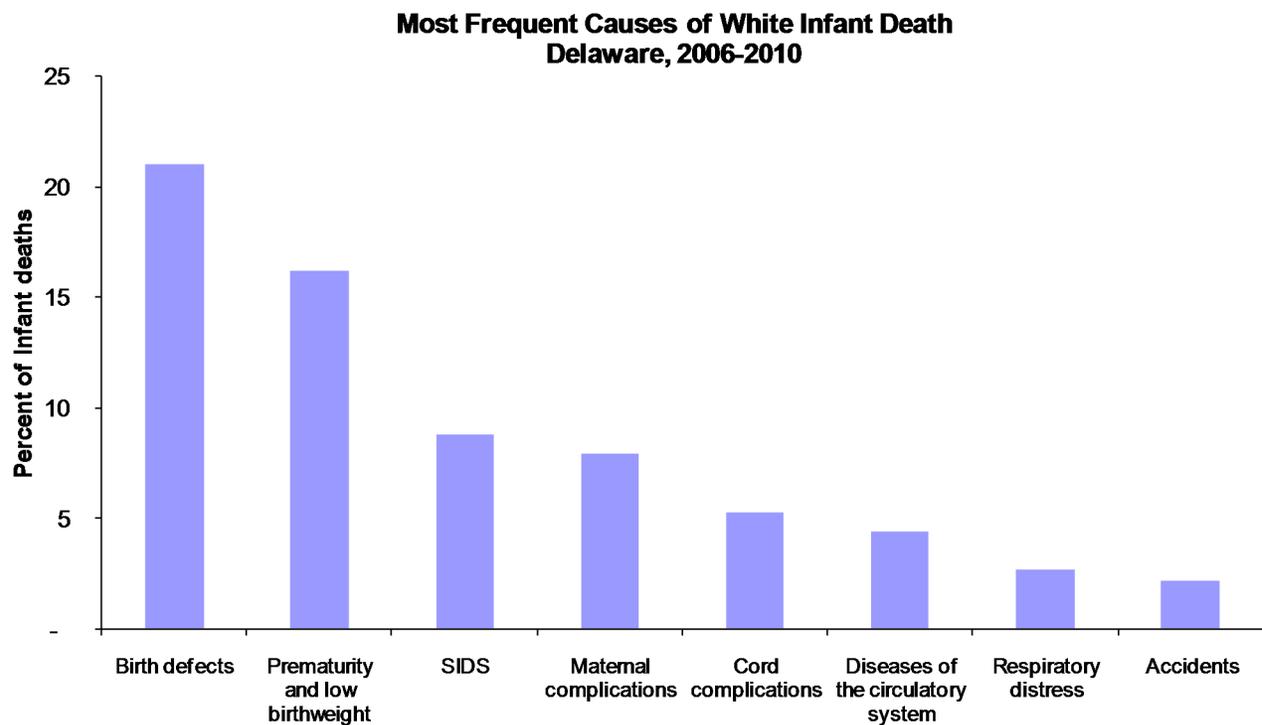
Though the proportions of deaths by race were similar for many of the causes of death, notable exceptions were birth defects, disorders due to prematurity and low birthweight, and SIDS. While birth defects were responsible for 21 percent of all white infant deaths, they accounted for only 7.6 percent of black infant deaths. Conversely, infant deaths due to disorders related to prematurity and low birthweight and SIDS accounted for larger percentages of black infant deaths than white infant deaths (29 versus 16 percent for prematurity and low birthweight, and 12.5 versus 8.8 percent for SIDS).

**Most Frequent Causes of Black Infant Death
Delaware, 2006-2010**



Source: Delaware Health Statistics Center

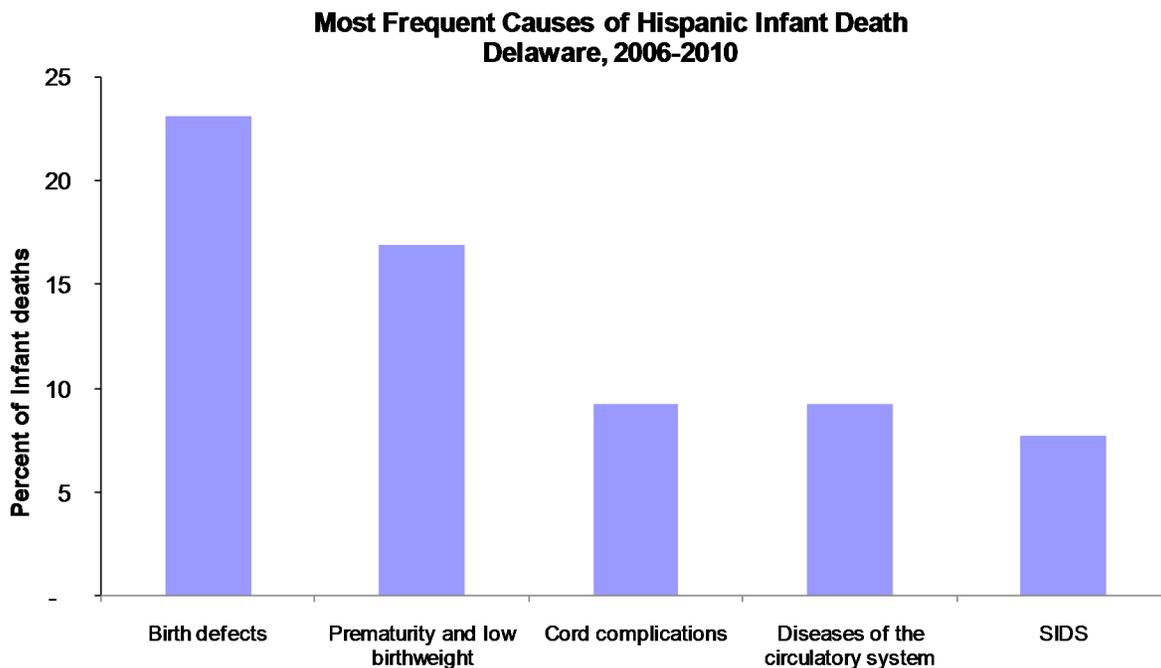
INFANT MORTALITY- Leading Causes of Death



Source: Delaware Health Statistics Center

In 1989-1993, Hispanics accounted for 3.6 percent of all live births and 3.4 percent of infant deaths; since that time the proportion of births to Hispanic mothers has quadrupled. In the most recent five-year period, 2006-2010, 14.9 percent of all live births were to Hispanic mothers, and 13.8 percent of all infant deaths were of Hispanic origin.

Two causes of death accounted for the greatest number of Hispanic infant deaths: birth defects and disorders related to prematurity and low birthweight.



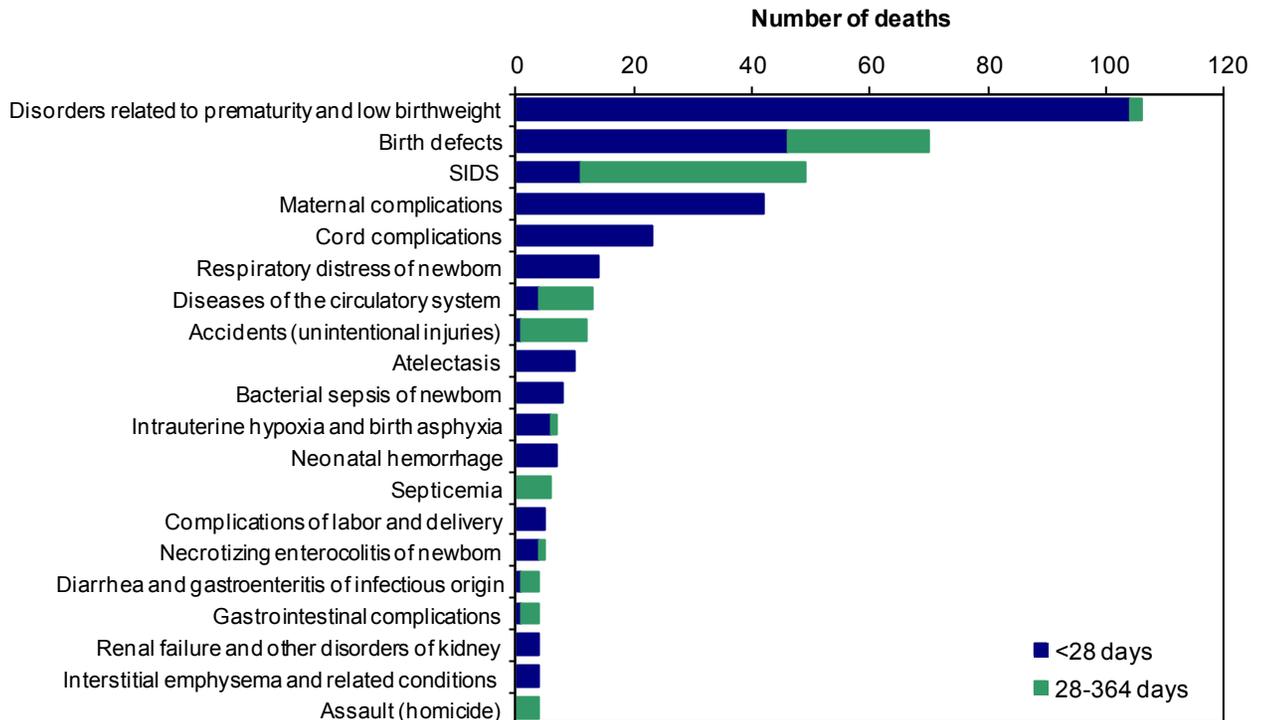
Source: Delaware Health Statistics Center

INFANT MORTALITY - Leading Causes of Death

Approximately 92 percent of all infant deaths occurred within the first six months of life, 70 percent of all infant deaths occurred within the first 28 days of life, and 42 percent occurred within 24 hours of birth.

The graph below displays deaths by specific cause and the infant's age classification at death: neonatal (<28 days), or postneonatal (28-364 days).

**Most Frequent Causes of Infant Death
Delaware, 2006-2010**



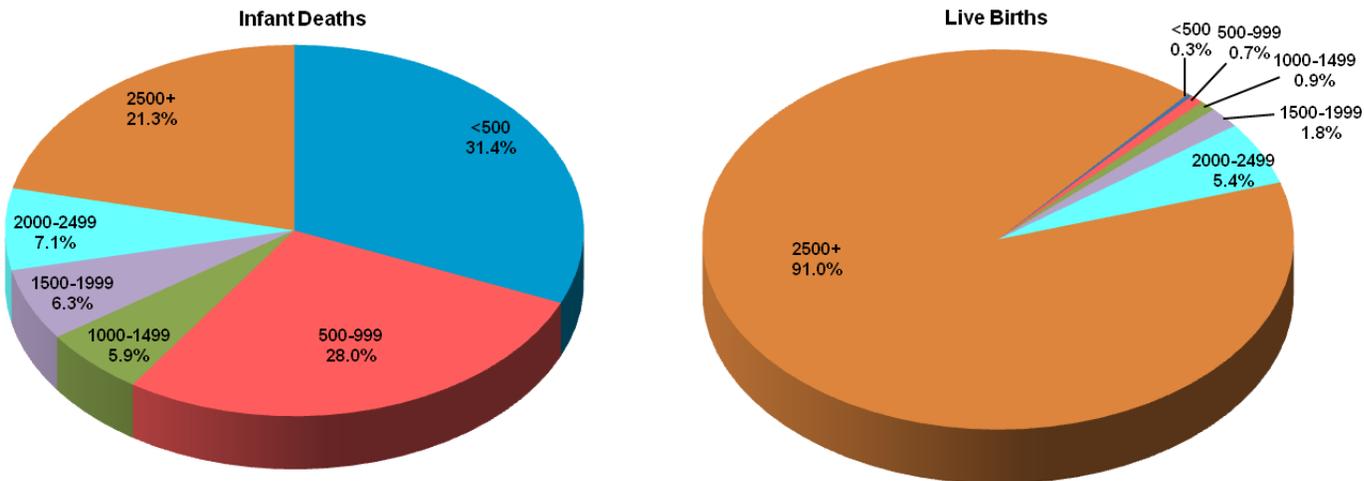
Source: Delaware Health Statistics Center

- Prematurity and low birthweight accounted for the greatest number of infant deaths in 2006-2010; all but two of these deaths occurred in the neonatal period.
- Sudden infant death syndrome (SIDS) was the only one of the top five causes of death that had the majority of deaths occurring in the postneonatal period, with a mean age at death of 103 days. Though fewer infants died in 2006-2010 compared to 2005-2009, more infants died due to SIDS, moving it up to the third leading cause of infant death in 2006-2010.
 - ⇒ 37 percent (18 out of 49) of the SIDS deaths were associated with co-sleeping and/or sleeping on soft surfaces, such as couches and adult beds.
- During that same time period there were 22 additional infant deaths, coded under a different cause of death, that were associated with co-sleeping and/or sleeping on a soft surface. In total, 8.5 percent of all infant deaths in 2006-2010 were associated with co-sleeping and/or unsafe sleep practices.

INFANT MORTALITY - Live Birth Cohort

Though only 1 percent of all live births in 2005-2009 were infants weighing less than 1000 grams, they accounted for over half (59 percent) of all infant deaths. In total, 9 percent of all live births in 2005-2009 were infants of low birthweight (under 2500 grams) and 78 percent of infant deaths were low birthweight.

Distribution by Birthweight, Delaware Live Birth Cohort, 2005-2009

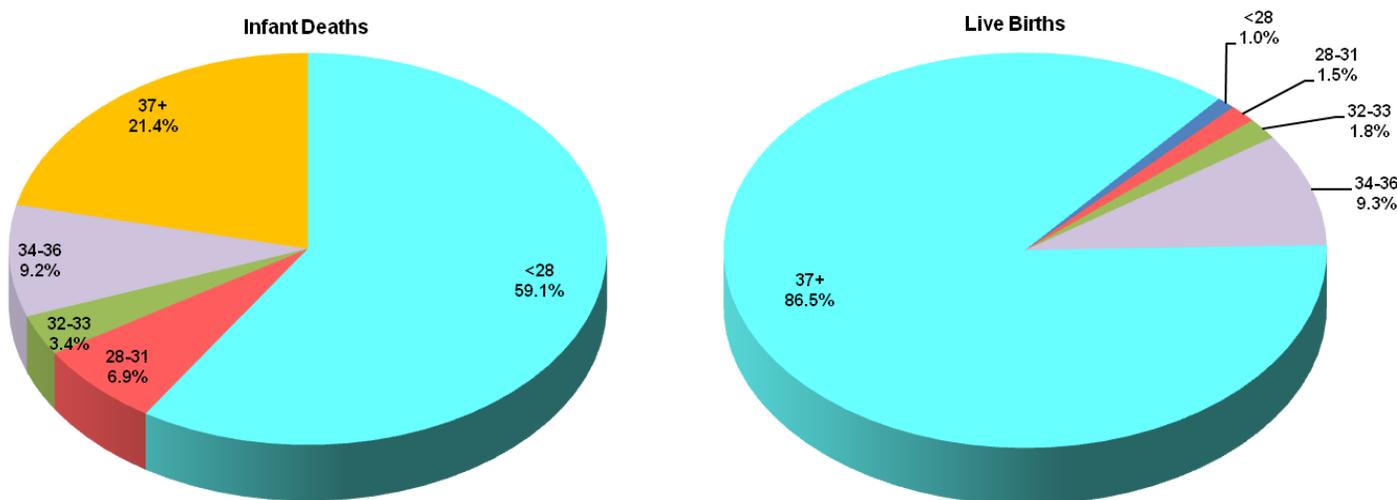


Source: Delaware Health Statistics Center

Gestation and infant death demonstrated the same relationship as birthweight and infant death; infants born at the youngest gestational age made up a very small percentage of live births, yet they accounted for the majority of infant deaths.

One percent of live births in 2005-2009 were less than 28 weeks gestation at birth, but they accounted for 59 percent of all infant deaths. In total, 14 percent of all live births in 2005-2009 were born preterm (<37 weeks of gestation) and 78 percent of infant deaths were born preterm.

Distribution by Gestation, Delaware Live Birth Cohort, 2005-2009



Source: Delaware Health Statistics Center

INFANT MORTALITY - Live Birth Cohort

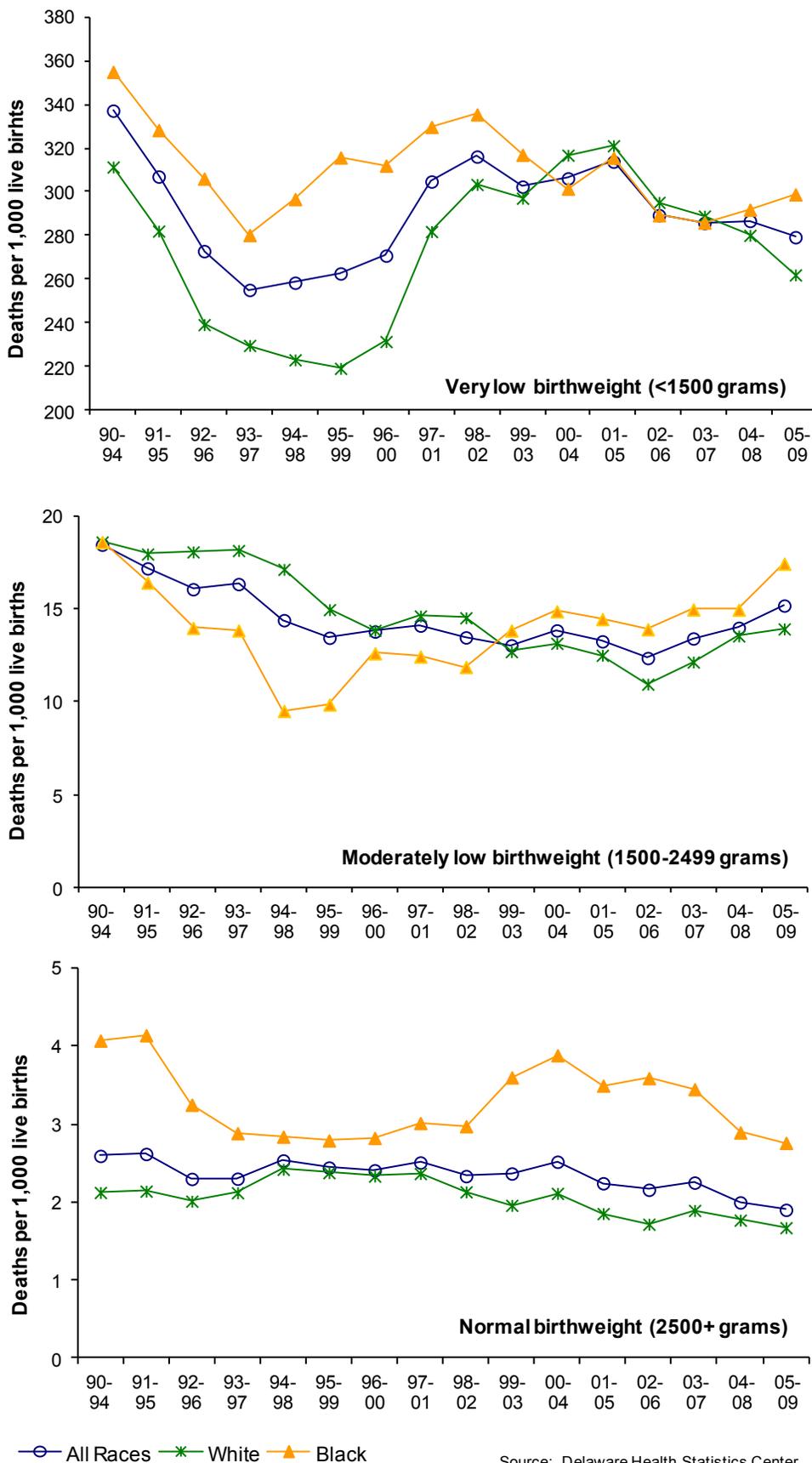
Birthweight and gestation are considered to be the most important predictors of infant health and mortality risk. Infants born too small or too early have a much greater risk of mortality than those who reach a normal birthweight (2500+ grams) or full-term gestation (37+ weeks).

The IMR for very low birthweight (VLBW) black infants increased for the second year, while the IMR for VLBW white infants decreased for the fourth straight year. In 2005-2009, IMRs for white and black VLBW infants were 262 and 299 infant deaths per 1,000 live births.

IMRs for moderately LBW infants of all races rose nearly 10 percent between 2000-2004 and 2005-2009; during that time, black IMRs increased 17 percent to 17.5, and white IMRs increased 6 percent to 13.9 infant deaths per 1,000 live births.

IMRs for normal birthweight infants have been trending down since 2000-2004. During that time, white IMRs decreased 21 percent and black IMRs decreased 29 percent. In 2005-2009, the black IMR for normal birthweight infants was 2.8, versus 1.7 for white infant of normal birthweight.

Five-year Average Infant Mortality Rate by Birthweight and Race Delaware, 1990-2009 Live Birth Cohort

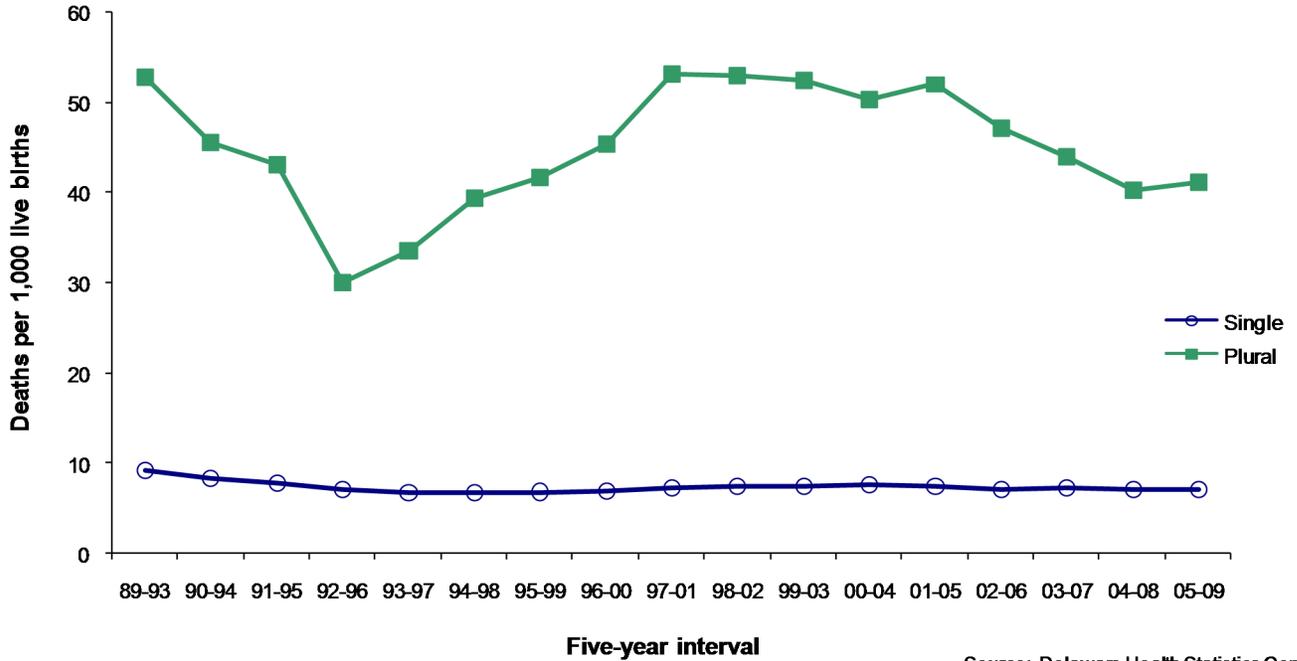


Source: Delaware Health Statistics Center

INFANT MORTALITY - Live Birth Cohort

From 1992-1996 to 1997-2001, IMRs for plural births increased 77 percent, to 53.1 deaths per 1000 live births; during the same time, IMRs for singleton births increased by 4 percent. Since then, plural IMRs have decreased 23 percent, with the majority of the decrease occurring in the most recent time period. IMRs for singleton births experienced a slight decrease of 4 percent. In 2005-2009, the infant mortality rate for plural births was 5.9 times that of singleton births (41 versus 7).

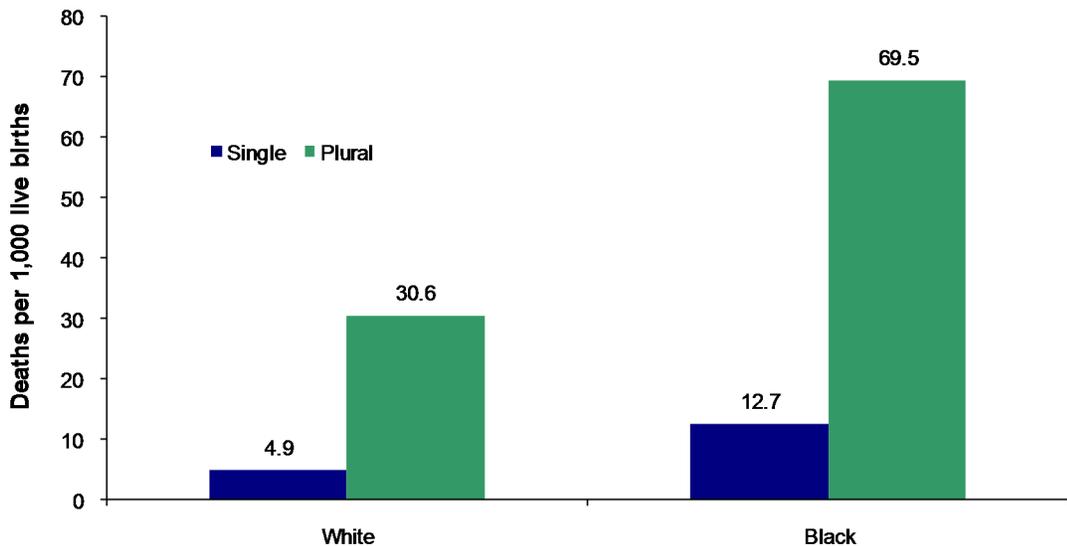
**Five-year Average Infant Mortality Rates by Plurality
Delaware Live Birth Cohort, 1989-2009**



Source: Delaware Health Statistics Center

The magnitude of difference between singleton and plural IMRs remained the same regardless of race, though rates for black infants, both singleton and plural, were more than double those of white infants.

**Five-year Average Infant Mortality Rates by Plurality and Race
Delaware Live Birth Cohort, 2005-2009**



Source: Delaware Health Statistics Center

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TABLE E-1
NUMBER OF INFANT DEATHS BY RACE

U.S., DELAWARE, COUNTIES AND CITY OF WILMINGTON, 1993-2010

Area/ Race	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
U.S.																		
All Races	33466	31710	29583	28237	28045	28371	27937	28035	27568	28034	28025	27936	28440	28527	29138	28059	26412	24548*
White	21497	20504	19490	18749	18539	18561	18067	18144	17955	18369	18440	18231	18514	18403	18807	18164	16817	15933*
Black	10887	10072	9118	8490	8496	8726	8822	8771	8498	8524	8402	8494	8695	8858	8944	8543	8312	7388*
Other	1082	1134	975	998	1010	1084	1048	1120	1115	1141	1183	1211	1231	1266	1387	1352	1283	1227*
Delaware																		
All Races	94	70	79	77	81	103	81	102	114	96	107	97	106	99	91	101	91	88
White	44	40	46	43	42	54	31	65	60	57	53	51	48	50	52	49	30	47
Black	50	27	32	32	36	49	49	37	53	35	53	44	55	44	38	52	54	36
Other	0	3	1	2	3	0	1	0	1	4	1	2	3	5	1	0	7	5
Kent																		
All Races	11	15	18	17	14	18	10	21	19	27	16	17	21	13	9	18	18	15
White	5	10	10	11	4	13	4	16	10	22	8	8	6	7	4	10	6	12
Black	6	5	7	6	10	5	6	5	9	5	8	8	14	5	4	8	12	3
Other	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0
New Castle																		
All Races	68	37	45	48	48	65	61	67	72	55	78	60	68	68	60	70	57	58
White	32	20	24	21	26	27	22	40	37	30	37	33	35	31	33	32	18	24
Black	36	15	21	26	20	38	38	27	35	22	40	27	31	35	27	38	34	30
Other	0	2	0	1	2	0	1	0	0	3	1	0	2	2	0	0	5	4
Wilmington																		
All Races	24	15	11	19	14	18	20	16	17	12	18	12	18	16	17	19	18	18
White	4	3	2	1	4	2	4	4	2	2	4	4	3	2	3	7	0	4
Black	20	11	9	18	10	16	16	12	15	10	14	8	15	14	14	12	16	13
Other	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1
Balance of NC County																		
All Races	44	22	34	29	34	47	41	51	55	43	60	48	50	52	43	51	39	40
White	28	17	22	20	22	25	18	36	35	28	33	29	32	29	30	25	18	20
Black	16	4	12	8	10	22	22	15	20	12	26	19	16	21	13	26	18	17
Other	0	1	0	1	2	0	1	0	0	3	1	0	2	2	0	0	3	3
Sussex																		
All Races	15	18	16	12	19	20	10	14	23	14	13	20	17	18	22	13	16	15
White	7	10	12	11	12	14	5	9	13	5	8	10	7	12	15	7	6	11
Black	8	7	4	0	6	6	5	5	9	8	5	9	10	4	7	6	8	3
Other	0	1	0	1	1	0	0	0	1	1	0	1	0	2	0	0	2	1

Notes:

- *Based on NCHS estimate.
- Infant deaths refer to deaths to children under one year of age.

Sources:

National Center for Health Statistics
Delaware Health Statistics Center

INFANT1

TABLE E-2
NUMBER OF NEONATAL DEATHS BY RACE

U.S., DELAWARE, COUNTIES AND CITY OF WILMINGTON, 1993-2010

Area/ Race	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
U.S.																		
All Races	21174	20250	19155	18326	18524	18918	18728	18776	18265	18749	18893	18593	18770	18989	19058	18211	17255	16167*
White	13506	13100	12644	12252	12269	12406	12164	12201	12013	12354	12495	12238	12239	12302	12333	11843	11054	10603*
Black	7044	6499	5940	5483	5637	5824	5920	5843	5585	5646	5640	5495	5740	5876	5842	5523	5374	4760*
Other	624	651	571	591	618	688	644	732	667	749	758	860	791	811	883	845	827	804*
Delaware																		
All Races	69	48	47	53	55	74	58	71	82	79	75	63	79	72	65	68	66	58
White	33	28	26	28	26	33	21	45	44	48	36	33	36	36	37	32	19	27
Black	36	18	20	24	27	41	37	26	37	28	38	28	40	33	28	36	40	26
Other	0	2	1	1	2	0	0	0	1	3	1	2	3	3	0	0	7	5
Kent																		
All Races	6	7	10	13	10	9	8	15	15	22	8	11	14	7	6	12	14	11
White	2	3	6	7	1	6	3	11	10	18	3	5	3	4	3	7	4	9
Black	4	4	3	6	9	3	5	4	5	4	5	5	10	3	3	5	10	2
Other	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
New Castle																		
All Races	56	28	26	33	33	47	44	50	54	47	56	39	54	52	43	48	42	36
White	27	17	12	14	19	15	14	29	27	26	27	21	28	22	23	20	13	9
Black	29	9	14	18	13	32	30	21	27	19	28	18	24	28	20	28	24	23
Other	0	2	0	1	1	0	0	0	0	2	1	0	2	2	0	0	5	4
Wilmington																		
All Races	17	10	6	14	6	12	14	13	14	9	10	9	15	12	10	10	14	10
White	2	3	0	1	3	1	2	4	1	1	1	3	3	1	1	3	0	0
Black	15	6	6	13	3	11	12	9	13	8	9	6	12	11	9	7	12	9
Other	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1
Balance of NC County																		
All Races	39	18	20	19	27	35	30	37	40	38	46	30	39	40	33	38	28	26
White	25	14	12	13	16	14	12	25	26	25	26	18	25	21	22	17	13	9
Black	14	3	8	5	10	21	18	12	14	11	19	12	12	17	11	21	12	14
Other	0	1	0	1	1	0	0	0	0	2	1	0	2	2	0	0	3	3
Sussex																		
All Races	7	13	11	7	12	18	6	6	13	10	11	13	11	13	16	8	10	11
White	4	8	8	7	6	12	4	5	7	4	6	7	5	10	11	5	2	9
Black	3	5	3	0	5	6	2	1	5	5	5	5	6	2	5	3	6	1
Other	0	0	0	0	1	0	0	0	1	1	0	1	0	1	0	0	2	1

Notes:

- *Based on NCHS estimate.
- Neonatal deaths refer to deaths of children under 28 days of age.

Sources:

National Center for Health Statistics

INFANT2

TABLE E-3
NUMBER OF POSTNEONATAL DEATHS BY RACE

U.S., DELAWARE, COUNTIES AND CITY OF WILMINGTON, 1993-2010

Area/ Race	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
U.S.																		
All Races	12292	11460	10428	9911	9521	9453	9209	9259	9303	9285	9132	9343	9670	9538	10080	9848	9157	8381*
White	7991	7404	6846	6497	6270	6155	5903	5943	5942	6015	5945	5993	6275	6101	6474	6321	5763	5330*
Black	3843	3573	3178	3007	2859	2902	2902	2928	2913	2878	2762	2999	2955	2982	3102	3020	2938	2628*
Other	458	483	404	407	392	396	404	388	448	392	425	351	440	455	504	507	456	423*
Delaware																		
All Races	25	22	32	24	26	29	23	31	32	17	32	34	27	27	26	33	25	30
White	11	12	20	15	16	21	10	20	16	9	17	18	12	14	15	17	11	20
Black	14	9	12	8	9	8	12	11	16	7	15	16	15	11	10	16	14	10
Other	0	1	0	1	1	0	1	0	0	1	0	0	0	2	1	0	0	0
Kent																		
All Races	5	8	8	4	4	9	2	6	4	5	8	6	7	6	3	6	4	4
White	3	7	4	4	3	7	1	5	0	4	5	3	3	3	1	3	2	3
Black	2	1	4	0	1	2	1	1	4	1	3	3	4	2	1	3	2	1
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
New Castle																		
All Races	12	9	19	15	15	18	17	17	18	8	22	21	14	16	17	22	15	22
White	5	3	12	7	7	12	8	11	10	4	10	12	7	9	10	12	5	15
Black	7	6	7	8	7	6	8	6	8	3	12	9	7	7	7	10	10	7
Other	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0
Wilmington																		
All Races	7	5	5	5	8	6	6	3	3	3	8	3	3	4	7	9	4	8
White	2	0	2	0	1	1	2	0	1	1	3	1	0	1	2	4	0	4
Black	5	5	3	5	7	5	4	3	2	2	5	2	3	3	5	5	4	4
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Balance of NC County																		
All Races	5	4	14	10	7	12	11	14	15	5	14	18	11	12	10	13	11	14
White	3	3	10	7	6	11	6	11	9	3	7	11	7	8	8	8	5	11
Black	2	1	4	3	0	1	4	3	6	1	7	7	4	4	2	5	6	3
Other	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0
Sussex																		
All Races	8	5	5	5	7	2	4	8	10	4	2	7	6	5	6	5	6	4
White	3	2	4	4	6	2	1	4	6	1	2	3	2	2	4	2	4	2
Black	5	2	1	0	1	0	3	4	4	3	0	4	4	2	2	3	2	2
Other	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0

Notes:

- *Based on NCHS estimate.
- Postneonatal deaths refer to deaths of children 28 to 364 days of age.

Sources:

National Center for Health Statistics
Delaware Health Statistics Center

INFANT3

TABLE E- 4
 FIVE-YEAR AVERAGE INFANT MORTALITY RATES BY RACE
 U.S., DELAWARE, COUNTIES AND CITY OF WILMINGTON, 1990-2010

Area/ Race	1990 -1994	1991 -1995	1992 -1996	1993 -1997	1994 -1998	1995 -1999	1996 -2000	1997 -2001	1998 -2002	1999 -2003	2000 -2004	2001 -2005	2002 -2006	2003 -2007	2004 -2008	2005 -2009	2006 -2010
U.S.																	
All Races	8.6	8.3	8.0	7.7	7.5	7.3	7.1	7.0	7.0	6.9	6.9	6.9	6.8	6.8	6.7	6.7	6.5
White	7.0	6.8	6.5	6.4	6.2	6.0	5.9	5.8	5.8	5.7	5.7	5.7	5.7	5.7	5.6	5.6	5.5
Black	17.0	16.4	15.8	15.3	14.8	14.6	14.4	14.2	14.3	14.2	14.0	14.0	13.8	13.6	13.3	13.1	12.7
Delaware																	
All Races	9.3	8.9	7.9	7.8	7.9	8.1+	8.4+	9.0+	9.2+	9.1+	9.3+	9.3+	8.8+	8.6+	8.4+	8.3+	8.0+
White	6.6	6.4	5.6-	5.6	5.9	5.7	6.2	6.6	6.9+	6.9+	7.3+	6.9+	6.5+	6.4	6.2	5.7	5.8
Black	18.2	17.0	15.8	14.7	14.4	15.8	15.9	17.1+	16.7+	16.7+	16.1	17.1+	16.1+	15.7+	15.3	15.6+	14.2
Kent																	
All Races	9.5	8.6	8.6	8.2	9.0	8.4	8.6	8.7	9.9	9.5	10.2	10.0	9.1	7.1	7.1	7.1	6.5
White	7.3	6.5	6.8	5.8	7.1	6.3	7.0	6.9	9.5	8.6	9.2	7.6	7.0	4.4	4.6	4.3	5.1
Black	17.6	15.5	15.2	16.6	15.9	15.7	14.3	15.2	12.7	13.4	13.9	17.0	14.9	13.6	13.2	14.0	10.2
New Castle																	
All Races	9.5	9.0	7.8	7.3	7.3	7.9	8.5	9.1	9.2	9.5	9.4	9.4	9.2	9.2	9.0	9.0	8.8
White	6.5	6.3	5.0	4.9	4.8	4.9	5.6	6.2	6.4	6.8	7.3	7.1	6.8	7.0	6.9	6.4	6.1
Black	19.8	18.3	17.5	15.3	15.1	17.4	17.7	18.2	18.0	18.0	16.5	16.7	16.3	16.3	15.7	16.1	15.8
Wilmington																	
All Races	18.0	16.6	15.2	13.6	12.8	13.7	14.4	14.0	13.5	13.5	12.4	12.8	12.3	13.0	13.0	13.8	14.1
White	9.7	10.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Black	22.7	20.4	20.5	17.8	16.8	18.0	18.7	18.0	17.9	17.6	15.9	17.0	16.3	17.3	16.3	18.0	18.0
Balance of NC County																	
All Races	7.5	7.2	6.1	5.9	6.0	6.7	7.2	8.1	8.3	8.6	8.8	8.7	8.5	8.5	8.2	8.0	7.7
White	6.2	5.9	4.8	4.8	4.7	4.8	5.4	6.1	6.4	6.8	7.3	7.2	6.9	7.0	6.8	6.4	6.0
Black	16.3	16.0	14.4	12.9	13.6	16.8	16.8	18.5	18.1	18.2	17.0	16.6	16.3	15.8	15.3	14.9	14.5
Sussex																	
All Races	8.3	8.7	7.9	9.0	9.5	8.5	8.1	9.0	8.3	7.4	8.1	8.2	7.5	7.9	7.6	7.2	7.0
White	6.2	6.8	6.8	8.0	8.9	8.0	7.5	7.6	6.5	5.5	5.9	5.5	5.1	6.2	5.7	5.2	5.6
Black	13.7	13.8	10.4	11.1	10.4	9.9	10.4	14.4	15.9	15.4	16.9	19.0	16.9	15.7	16.0	15.6	12.6

Notes:

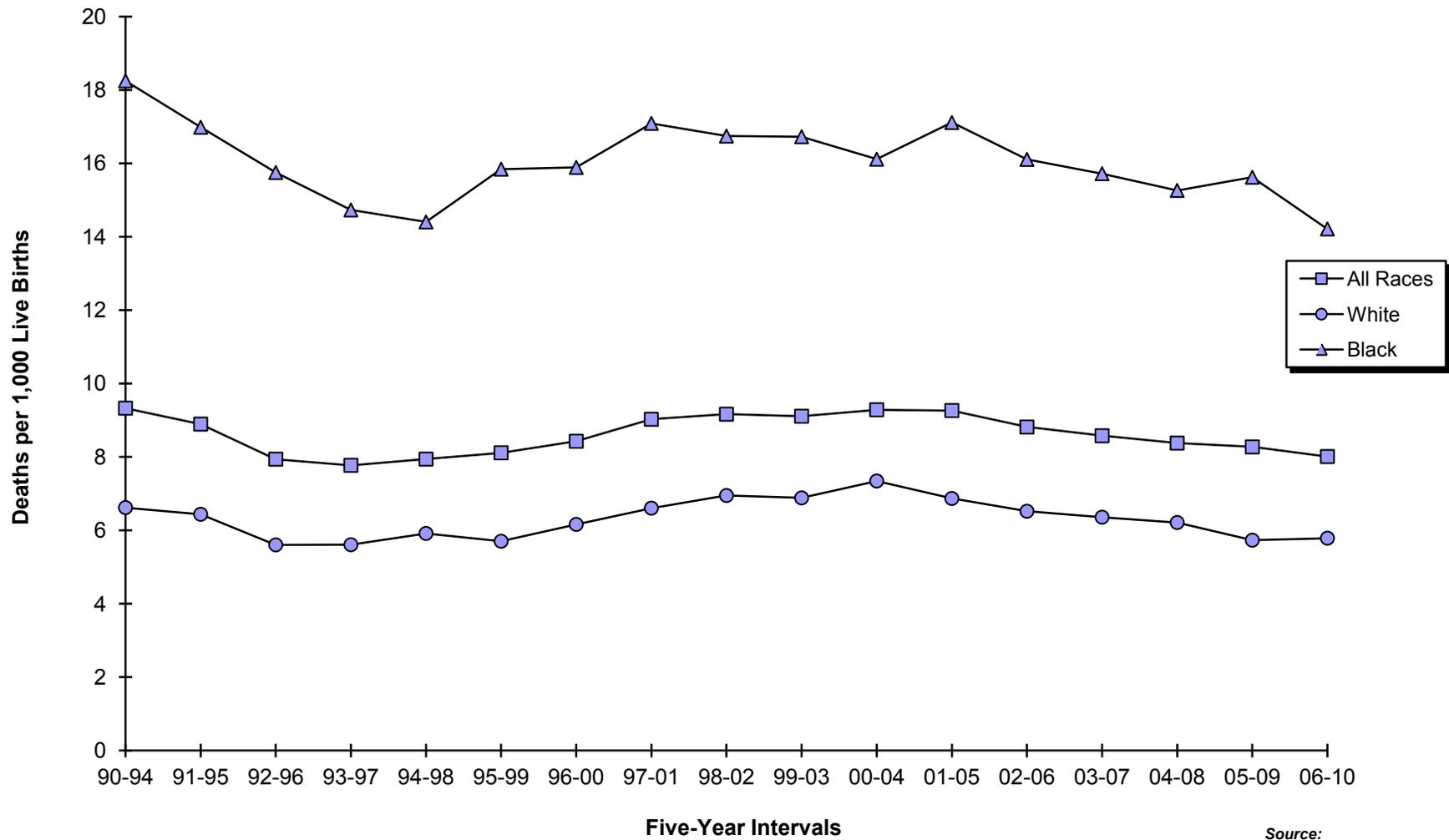
1. 2006-2010 U.S. data are based on NCHS estimates.
2. Infant mortality rates represent the number of deaths of children under one year of age per 1000 live births.
3. '+' indicates that the Delaware rate is significantly higher than the U.S. rate.
4. '-' indicates that the Delaware rate is significantly lower than the U.S. rate.
5. "----" Indicates rate does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.
6. No statistical comparisons were made between the county rates and the U.S. rate due to small numbers. See Appendix C for details.

Sources:

National Center for Health Statistics
 Delaware Health Statistics Center

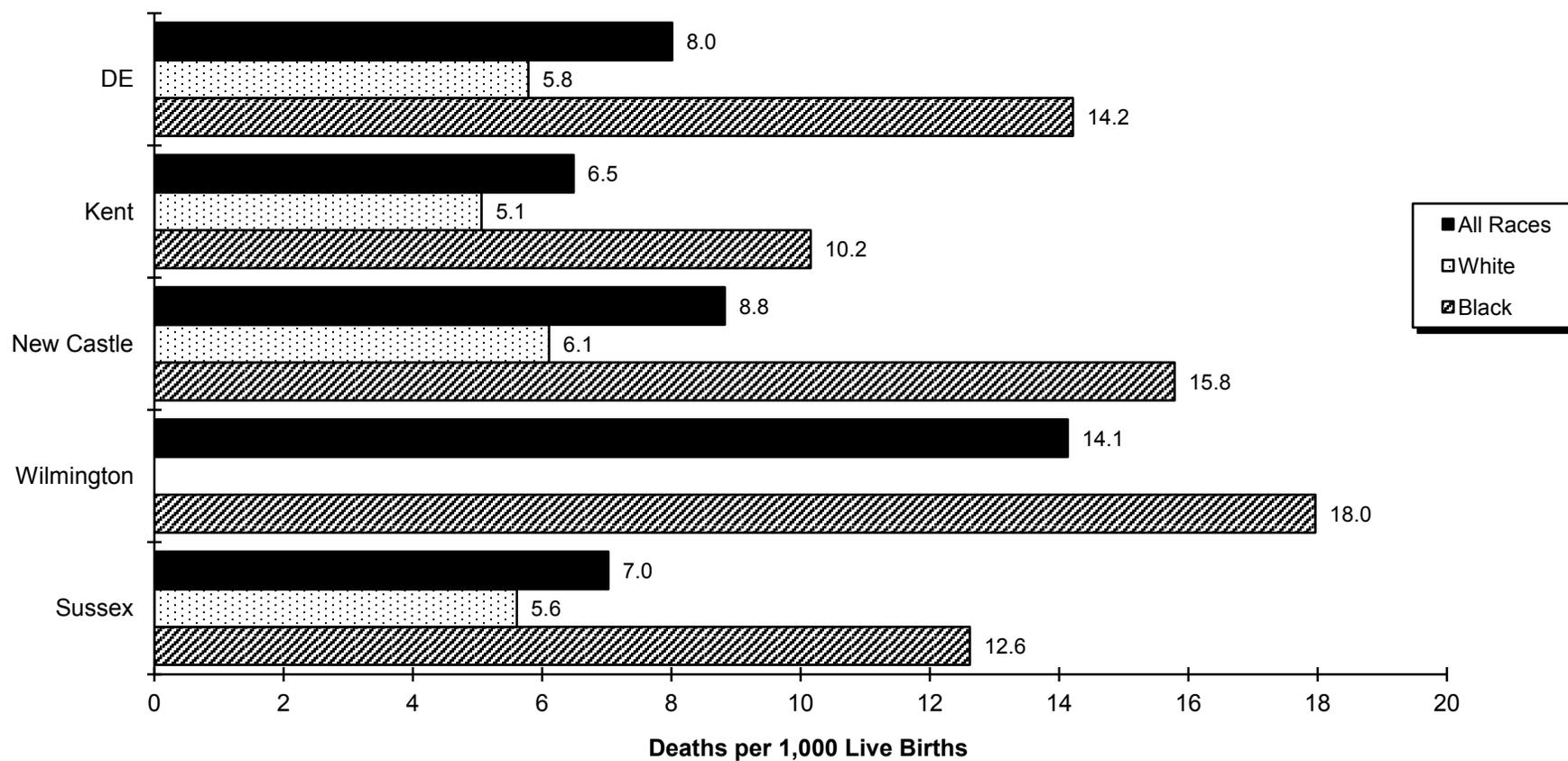
INFANT4

Figure E-1
Five-Year Average Infant Mortality Rates by Race
Delaware, 1990-2010



Source:
 Delaware Health Statistics Center

Figure E-2
Five-Year Average Infant Mortality Rates by Race
Delaware, Counties and the City of Wilmington, 2006-2010



Source:
 Delaware Health Statistics Center

TABLE E-5
FIVE-YEAR AVERAGE NEONATAL MORTALITY RATES BY RACE

U.S., DELAWARE, COUNTIES AND CITY OF WILMINGTON, 1990-2010

Area/ Race	1990 -1994	1991 -1995	1992 -1996	1993 -1997	1994 -1998	1995 -1999	1996 -2000	1997 -2001	1998 -2002	1999 -2003	2000 -2004	2001 -2005	2002 -2006	2003 -2007	2004 -2008	2005 -2009	2006 -2010
U.S.																	
All Races	5.4	5.3	5.1	5.0	4.9	4.8	4.7	4.7	4.7	4.6	4.6	4.6	4.6	4.5	4.4	4.4	4.3
White	4.4	4.3	4.2	4.1	4.0	4.0	3.9	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.7	3.7	3.6
Black	10.9	10.6	10.2	9.9	9.7	9.6	9.5	9.5	9.5	9.5	9.3	9.2	9.1	9.0	8.7	8.6	8.3
Delaware																	
All Races	6.4+	6.0+	5.4	5.3	5.4	5.5+	5.9+	6.4+	6.7+	6.7+	6.7+	6.7+	6.4+	6.1+	5.9+	5.9+	5.6+
White	4.7	4.5	3.8	3.7	3.7	3.5	4.0	4.4	5.0+	5.0+	5.3+	5.0+	4.8+	4.5+	4.3	4.0	3.8
Black	12.1	11.1	10.7	10.4	10.6	11.9+	12.1+	12.8+	12.7+	12.2+	11.4+	12.2+	11.6+	11.2+	10.8+	11.4+	10.3+
Kent																	
All Races	5.6	4.9	5.0	5.0	5.4	5.5	5.9	6.1	7.2	7.0	7.2	7.0	6.0	4.3	4.6	4.7	4.4
White	4.4	3.6	3.8	---	3.4	3.4	4.1	4.6	7.0	6.5	6.8	5.5	4.5	---	2.9	2.7	3.5
Black	10.0	---	---	12.7	12.1	12.0	12.1	11.3	8.9	9.3	9.2	11.2	10.0	9.1	8.8	10.1	7.3
New Castle																	
All Races	6.9	6.4	5.6	5.2	5.0	5.4	6.1	6.6	6.9	7.1	7.0	7.1	6.9	6.8	6.5	6.7	6.2
White	4.8	4.6	3.6	3.6	3.1	3.0	3.7	4.3	4.5	5.0	5.3	5.3	5.1	5.0	4.8	4.6	3.9
Black	13.9	12.6	12.4	10.8	10.8	13.0	13.5	14.2	14.5	13.9	12.4	12.5	12.3	12.1	11.7	12.1	11.8
Wilmington																	
All Races	12.7	11.1	10.5	8.7	8.0	8.7	9.8	9.7	10.1	9.8	9.1	9.5	8.9	9.0	8.9	9.6	9.0
White	8.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Black	15.2	13.0	14.2	11.2	10.2	11.8	12.5	12.5	13.8	13.4	12.1	13.1	12.3	12.5	11.6	12.9	12.5
Balance of NC County																	
All Races	5.5	5.3	4.5	4.5	4.3	4.7	5.3	6.0	6.3	6.6	6.5	6.6	6.5	6.3	6.0	6.0	5.6
White	4.5	4.3	3.5	3.5	3.1	3.0	3.6	4.2	4.6	5.1	5.4	5.5	5.2	5.2	4.8	4.7	4.0
Black	12.3	12.1	10.6	10.3	11.4	14.1	14.4	15.6	15.1	14.2	12.5	12.1	12.3	11.8	11.8	11.6	11.5
Sussex																	
All Races	5.6	5.5	5.0	5.6	6.8	6.0	5.3	5.8	5.5	4.6	5.1	5.5	5.3	5.6	5.2	4.9	4.9
White	4.6	4.8	4.8	5.1	6.2	5.5	5.0	4.9	4.5	3.6	3.8	3.7	3.9	4.6	4.3	3.7	4.1
Black	8.3	---	---	---	---	---	---	---	---	---	9.9	12.1	10.8	10.3	9.3	9.8	---

INFANT5

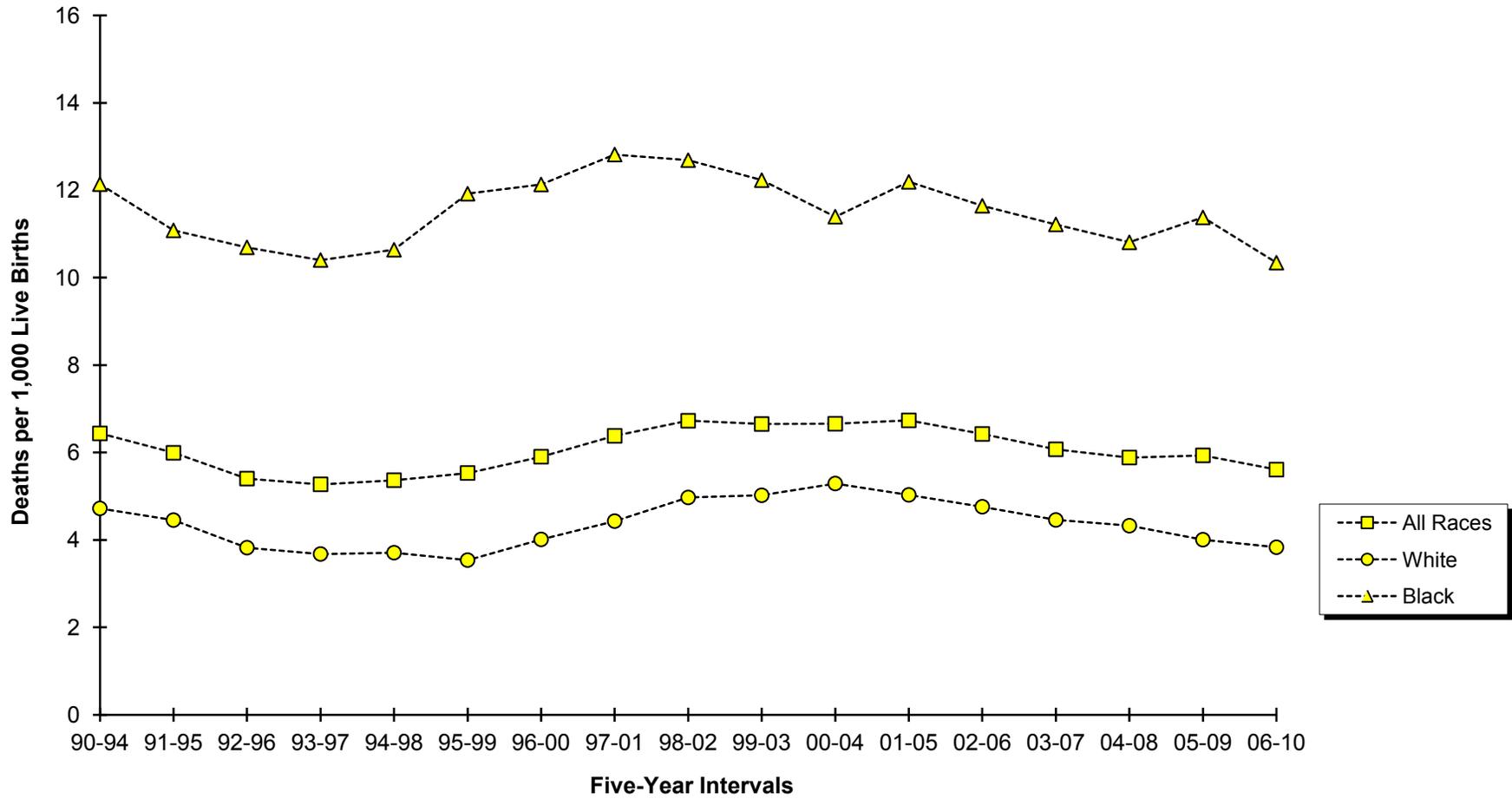
Notes:

1. 2006-2010 U.S. data are based on NCHS estimates.
2. Neonatal mortality rates represent the number of deaths of children under 28 days of age per 1000 live births.
3. '+' indicates that the Delaware rate is significantly higher than the U.S. rate.
4. "----" Indicates rate does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.
5. No statistical comparisons were made between the county rates and the U.S. rate due to small numbers. See Appendix C for details.

Sources:

National Center for Health Statistics
Delaware Health Statistics Center

Figure E-3
Five-Year Average Neonatal Mortality Rates by Race
Delaware, 1990-2010



Source:
 Delaware Health Statistics Center

TABLE E-6
 FIVE-YEAR AVERAGE POSTNEONATAL MORTALITY RATES BY RACE
 U.S., DELAWARE, COUNTIES AND CITY OF WILMINGTON, 1990-2010

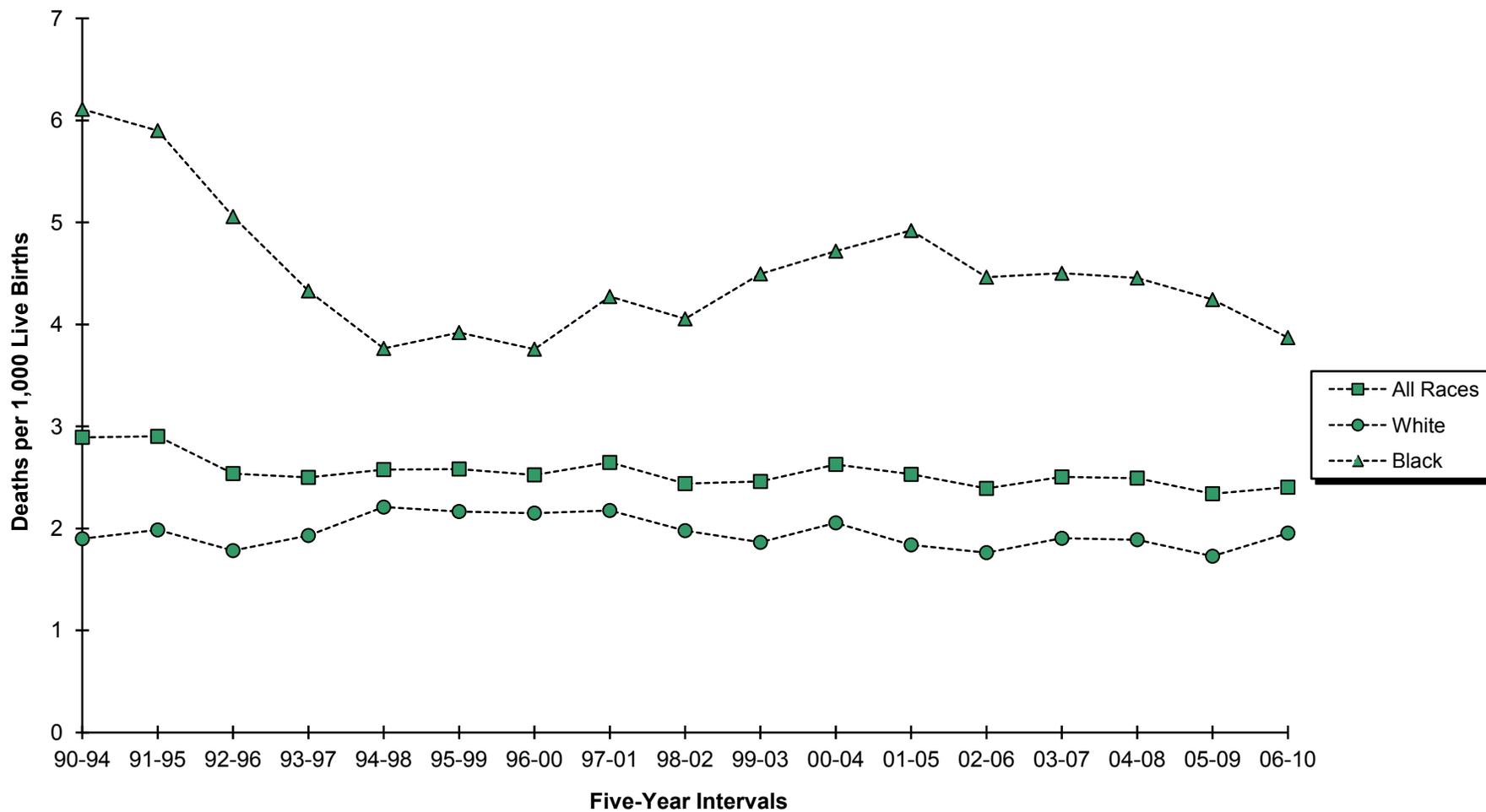
Area/ Race	1990 -1994	1991 -1995	1992 -1996	1993 -1997	1994 -1998	1995 -1999	1996 -2000	1997 -2001	1998 -2002	1999 -2003	2000 -2004	2001 -2005	2002 -2006	2003 -2007	2004 -2008	2005 -2009	2006 -2010
U.S.																	
All Races	3.2	3.0	2.9	2.7	2.6	2.5	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2
White	2.6	2.5	2.4	2.3	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Black	6.0	5.8	5.6	5.4	5.1	5.0	4.8	4.8	4.8	4.7	4.8	4.8	4.7	4.6	4.6	4.5	4.4
Delaware																	
All Races	2.9	2.9	2.5	2.5	2.6	2.6	2.5	2.6	2.4	2.5	2.6	2.5	2.4	2.5	2.5	2.3	2.4
White	1.9-	2.0-	1.8-	1.9	2.2	2.2	2.2	2.2	2.0	1.9	2.1	1.8	1.8	1.9	1.9	1.7	2.0
Black	6.1	5.9	5.1	4.3	3.8-	3.9	3.8	4.3	4.1	4.5	4.7	4.9	4.5	4.5	4.5	4.2	3.9
Kent																	
All Races	3.9	3.7	3.5	3.2	3.6	3.0	2.7	2.7	2.7	2.6	2.9	3.0	3.1	2.8	2.6	2.3	2.0
White	2.9	3.0	3.0	3.1	3.7	---	2.9	---	---	---	---	---	---	---	---	---	---
Black	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
New Castle																	
All Races	2.7	2.6	2.2	2.1	2.3	2.5	2.4	2.5	2.2	2.3	2.4	2.3	2.3	2.5	2.5	2.3	2.6
White	1.7	1.7	1.4	1.4	1.7	1.9	1.8	2.0	1.8	1.8	1.9	1.8	1.7	2.0	2.1	1.9	2.3
Black	5.9	5.7	5.1	4.5	4.3	4.4	4.2	4.0	3.5	4.1	4.2	4.2	4.0	4.3	4.0	4.0	3.9
Wilmington																	
All Races	5.3	5.5	4.8	4.9	4.8	5.0	4.6	4.3	3.4	3.7	3.3	3.3	3.4	4.0	4.1	4.2	5.1
White	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Black	7.5	7.3	6.3	6.5	6.6	6.3	6.2	5.5	---	---	---	---	---	---	---	5.1	5.5
Balance of NC County																	
All Races	2.0	1.9	1.6	1.5	1.7	1.9	1.9	2.1	2.0	2.0	2.3	2.1	2.0	2.2	2.1	1.9	2.1
White	1.7	1.6	1.3	1.3	1.6	1.8	1.8	1.9	1.8	1.6	1.9	1.7	1.6	1.9	2.0	1.7	2.0
Black	---	---	---	---	---	---	---	---	---	4.0	4.4	4.4	4.0	4.0	3.5	3.3	3.1
Sussex																	
All Races	2.7	3.2	2.9	3.4	2.7	2.5	2.8	3.3	2.9	2.8	3.0	2.7	2.2	2.3	2.4	2.3	2.2
White	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Black	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:
 1. 2006-2010 U.S. data are based on NCHS estimates.
 2. Postneonatal mortality rates represent the number of deaths of children 28 to 364 days of age per 1000 live births.
 3. '-' indicates that the Delaware rate is significantly lower than the U.S. rate.
 4. "----" indicates rate does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.
 5. No statistical comparisons were made between the county rates and the U.S. rate due to small numbers. See Appendix C for details.

Sources:
 National Center for Health Statistics
 Delaware Health Statistics Center

INFANT6

Figure E-4
Five-Year Average Postneonatal Mortality Rates by Race
Delaware, 1990-2010



Source:
 Delaware Health Statistics Center

TABLE E-7
 FIVE-YEAR AVERAGE INFANT MORTALITY
 RATES BY SELECTED RISK MARKERS AND RACE OF MOTHER

DELAWARE, 2005-2009 LIVE BIRTH COHORT

Risk Factor	Race		
	All Races	White	Black
Birth Weight of Child			
<2500	70.6	58.5	89.5
<1500	279.3	262.0	298.9
1500-2499	15.2	13.9	17.5
2500+	1.9	1.7	2.8
Age of Mother			
<20	11.8	8.6	16.5
20-24	8.9	6.5	13.9
25-29	7.9	5.8	14.6
30+	6.8	4.8	15.3
Marital Status of Mother			
Married	5.6	4.2	13.9
Single	11.2	8.4	15.2
Education of Mother			
<12 years	10.5	8.0	17.1
H.S. diploma	9.7	7.1	14.3
1+ years college	5.9	4.1	13.1
Interval Since Last Live Birth			
<18 months	11.5	---	20.6
18+ months	6.0	4.2	10.9

COHRATES

Notes:

1. Infant mortality rates represent the number of deaths to children under one year of age per 1,000 live births.

Source:

Delaware Health Statistics Center

TABLE E-8
LEADING CAUSES OF INFANT DEATH BY GESTATIONAL AGE CATEGORY

DELAWARE, 2005-2009 LIVE BIRTH COHORT

Leading causes of death	Gestational Age Category					% Born Very Preterm	% Born Preterm
	Very preterm	Moderately preterm	Term	Unknown	Total		
Disorders related to short gestation and low birth weight, not elsewhere classified	116	0	1	3	120	96.7	96.7
Congenital malformations, deformations, and chromosomal abnormalities	17	17	27	0	61	27.9	55.7
Newborn affected by maternal complications of pregnancy	44	3	0	0	47	93.6	100.0
Sudden infant death syndrome	2	13	29	0	44	4.5	34.1
Newborn affected by complications of placenta, cord, and membranes	21	0	1	0	22	95.5	95.5
Respiratory distress of newborn	14	0	0	0	14	100.0	100.0
Bacterial sepsis of newborn	12	1	0	0	13	92.3	100.0
Diseases of the circulatory system	2	4	6	0	12	16.7	50.0
Atelectasis	10	0	0	0	10	100.0	100.0
Accidents (unintentional injuries)	3	3	4	0	10	30.0	60.0
Septicemia	4	2	2	0	8	50.0	75.0
Intrauterine hypoxia and birth asphyxia	6	1	0	1	8	75.0	87.5
Newborn affected by other complications of labor and delivery	7	0	0	0	7	100.0	100.0
Neonatal hemorrhage	7	0	0	0	7	100.0	100.0
Renal failure and other disorders of kidney	4	1	0	0	5	80.0	100.0
Necrotizing enterocolitis of newborn	4	1	0	0	5	80.0	100.0
Gastritis, duodenitis, and noninfective enteritis and colitis	4	0	0	0	4	100.0	100.0
Interstitial emphysema and related conditions originating in the perinatal period	4	0	0	0	4	100.0	100.0
Pulmonary hemorrhage originating in the perinatal period	4	0	0	0	4	100.0	100.0
Hernia of abdominal cavity and intestinal obstruction without hernia	0	1	2	0	3	0.0	33.3
All other causes	30	13	30	1	74	40.5	58.1
TOTAL	315	60	102	5	482	65.4	77.8

INFLCOD

Notes:

1. Leading causes of infant death are categorized using NCHS rankable causes of infant death, specific ICD-10 codes are shown in Appendix D.
2. Very preterm is defined as less than 32 weeks of gestation.
3. Moderately preterm is defined as between 32 and 36 weeks of gestation.
4. Term is defined as 37 and greater weeks of gestation.
5. The percent born preterm includes both the very preterm and moderately preterm groups.

Source:

Delaware Health Statistics Center

TABLE E-9
FIVE-YEAR AVERAGE INFANT MORTALITY RATES BY RACE AND SELECTED RISK MARKERS

DELAWARE LIVE BIRTH COHORT, 1990-2009

Parameter/ Race	1990 -1994	1991 -1995	1992 -1996	1993 -1997	1994 -1998	1995 -1999	1996 -2000	1997 -2001	1998 -2002	2000 -2004	2001 -2005	2002 -2006	2003 -2007	2004 -2008	2005 -2009
BIRTHWEIGHT															
2500+															
All Races	2.6	2.6	2.3	2.3	2.5	2.4	2.4	2.5	2.3	2.5	2.2	2.2	2.3	2.0	1.9
White	2.1	2.1	2.0	2.1	2.4	2.4	2.3	2.4	2.1	2.1	1.9	1.7	1.9	1.8	1.7
Black	4.1	4.1	3.3	2.9	2.8	2.8	2.8	3.0	3.0	3.9	3.5	3.6	3.5	2.9	2.8
<2500															
All Races	83.8	76.4	68.7	65.4	64.8	66.5	69.5	75.2	76.4	73.1	74.5	69.9	68.8	69.2	70.6
White	70.0	66.3	58.4	56.9	55.4	53.9	55.9	63.2	68.7	68.8	68.4	64.3	60.8	60.0	58.5
Black	102.9	91.1	85.3	78.9	78.8	86.0	88.2	93.7	90.5	83.0	88.0	80.9	82.2	83.9	89.5
<1500															
All Races	337.3	307.1	272.9	255.2	258.5	262.7	270.9	304.8	316.2	306.2	313.9	289.4	285.8	286.8	279.3
White	311.4	282.1	239.3	229.8	223.2	219.3	231.5	281.9	303.4	316.8	321.2	295.3	289.0	280.2	262.0
Black	355.0	328.4	306.1	280.3	296.8	315.8	312.1	329.8	335.5	301.5	315.7	289.4	286.0	291.9	298.9
GESTATION															
37+ weeks															
All Races	2.6	2.7	2.3	2.4	2.6	2.6	2.5	2.5	2.3	2.4	2.2	2.2	2.3	2.0	2.0
White	2.1	2.3	2.2	2.3	2.6	2.6	2.4	2.3	2.1	2.0	1.7	1.8	1.9	1.8	1.8
Black	3.9	3.8	2.8	2.8	2.8	2.7	2.8	3.1	2.9	4.0	3.4	3.4	3.4	2.9	2.7
<37 weeks															
All Races	62.9	56.2	50.3	47.1	45.6	45.9	48.2	53.0	54.3	52.6	53.5	49.1	47.1	47.0	47.3
White	51.4	45.6	38.1	37.2	35.4	33.6	35.7	41.8	45.5	46.5	45.2	40.5	37.5	36.2	34.9
Black	79.8	73.4	72.3	65.3	64.1	69.6	70.5	73.5	72.5	67.7	72.7	68.2	66.9	68.3	71.1
<32 weeks															
All Races	260.8	238.6	212.4	196.5	199.8	201.3	214.9	238.1	249.6	239.4	249.1	232.4	220.4	220.4	216.9
White	260.0	231.0	186.3	177.7	179.4	174.0	191.5	228.4	249.2	244.0	248.3	223.0	202.7	193.2	184.8
Black	258.2	242.8	239.1	215.4	222.2	235.6	238.7	250.4	255.4	239.8	259.4	250.0	246.4	255.2	258.8
PLURALITY															
Single															
All Races	8.2	7.7	7.0	6.7	6.7	6.8	6.9	7.3	7.3	7.5	7.4	7.1	7.2	7.0	7.0
White	5.4	5.4	5.0	5.0	5.1	5.1	4.9	5.2	5.4	5.6	5.4	5.1	5.2	5.2	4.9
Black	16.8	14.8	13.3	12.1	11.5	12.2	12.9	13.4	13.4	13.5	13.6	13.0	12.8	12.2	12.7
Plural															
All Races	45.6	43.1	30.0	33.5	39.3	41.6	45.4	53.1	52.9	50.3	52.0	47.0	44.0	40.3	41.0
White	41.9	37.9	24.5	28.9	30.4	28.6	35.1	43.4	48.0	49.2	49.9	44.0	36.6	29.6	30.6
Black	---	---	---	---	68.7	84.6	73.0	80.7	68.5	54.1	64.6	59.1	63.5	67.7	69.5
SMOKING DURING PREGNANCY															
No															
All Races	8.1	7.8	7.0	7.1	7.1	7.4	7.6	8.1	8.0	8.2	8.2	7.9	7.7	7.4	7.6
White	5.5	5.4	5.0	5.3	5.2	5.3	5.3	5.7	5.8	6.2	6.1	6.0	5.7	5.4	5.3
Black	15.9	15.0	13.4	12.6	12.7	14.0	14.3	15.3	14.8	14.3	14.7	13.7	13.4	13.2	13.9
Yes															
All Races	13.3	12.1	10.3	9.2	10.6	10.6	11.3	13.4	15.1	14.8	15.1	13.4	13.9	13.3	12.1
White	9.5	9.6	8.2	7.4	9.4	9.3	9.8	12.2	14.2	13.3	13.0	10.2	10.7	10.7	8.9
Black	27.4	21.3	18.6	16.2	15.3	16.3	17.3	18.0	18.9	19.5	22.0	23.9	23.8	21.2	21.5

TABLE E-9 (continued)
 FIVE-YEAR AVERAGE INFANT MORTALITY RATES BY RACE AND SELECTED RISK MARKERS

DELAWARE LIVE BIRTH COHORT, 1990-2009

Parameter/ Race	1990 -1994	1991 -1995	1992 -1996	1993 -1997	1994 -1998	1995 -1999	1996 -2000	1997 -2001	1998 -2002	1999 -2003	2001 -2005	2002 -2006	2003 -2007	2004 -2008	2005 -2009
EDUCATION															
HS Grad or less															
All Races	10.6	10.4	9.5	9.4	9.9	10.4	10.3	11.1	11.5	11.4	11.1	10.7	10.8	10.1	10.0
White	7.4	7.6	6.9	7.2	8.0	8.0	7.8	8.4	9.1	8.8	8.7	8.3	8.4	7.8	7.6
Black	17.8	16.8	15.7	14.3	14.3	15.8	15.6	16.8	16.9	17.2	17.2	16.6	16.4	15.4	15.4
1+ yrs college															
All Races	6.5	5.7	5.0	4.9	4.9	4.9	5.5	6.1	6.0	6.0	6.3	5.8	5.4	5.6	5.9
White	4.6	4.2	4.0	3.9	3.7	3.6	4.1	4.6	4.7	4.7	5.0	4.5	4.1	4.2	4.1
Black	16.9	13.0	9.9	10.2	10.5	11.8	13.5	13.9	12.6	12.2	12.0	11.1	10.9	11.4	13.1
PAYMENT FOR DELIVERY															
Medicaid															
All Races	NA	11.7	10.1	10.0	10.3	10.9	9.9	10.6	10.1	9.5	10.2	9.6	10.4	10.2	9.9
White	NA	8.5	7.3	7.9	8.8	9.1	7.7	8.6	8.3	7.1	7.7	7.1	8.0	8.0	7.5
Black	NA	15.4	13.8	12.9	12.7	13.6	13.1	13.8	13.0	13.3	14.7	14.0	14.4	14.1	14.1
Private Insurance															
All Races	NA	6.1	5.5	5.3	5.5	5.7	6.5	6.8	7.4	7.7	7.6	7.4	6.7	6.4	6.6
White	NA	4.8	4.4	4.2	4.2	4.3	4.9	5.2	5.7	5.9	5.8	5.6	5.0	4.6	4.5
Black	NA	14.1	12.6	11.6	12.8	13.7	14.8	15.6	16.5	17.1	17.0	16.6	15.3	15.0	16.4

COTREND

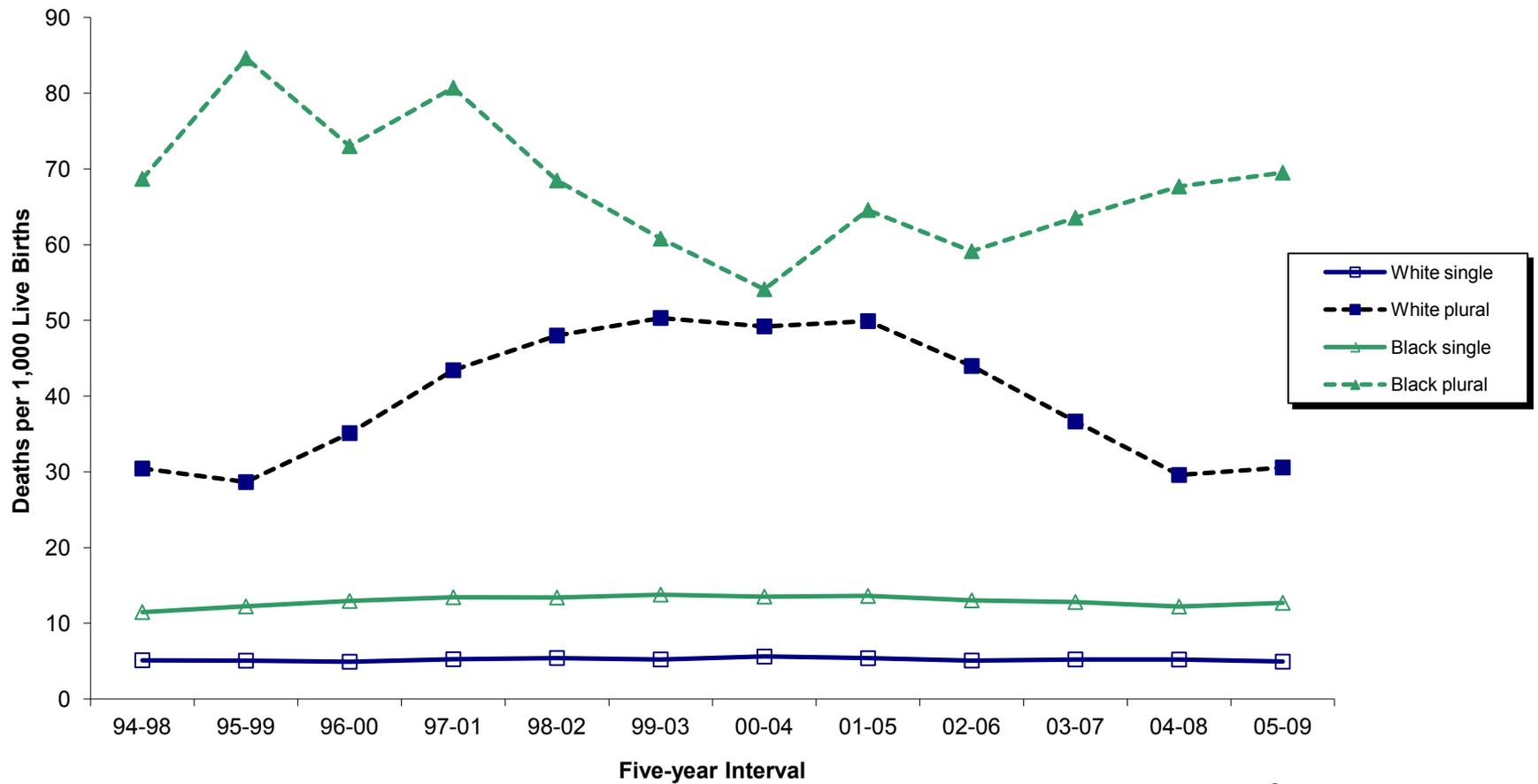
Notes:

1. See the Basic Definitions' section for definitions of birthweight, gestation, prenatal care attainment, and plurality.
2. "----" indicates rate does not meet standards of reliability or precision; based on fewer than 20 deaths in the numerator.
3. Primary source of payment for delivery not available prior to 1991.

Source:

Delaware Health Statistics Center

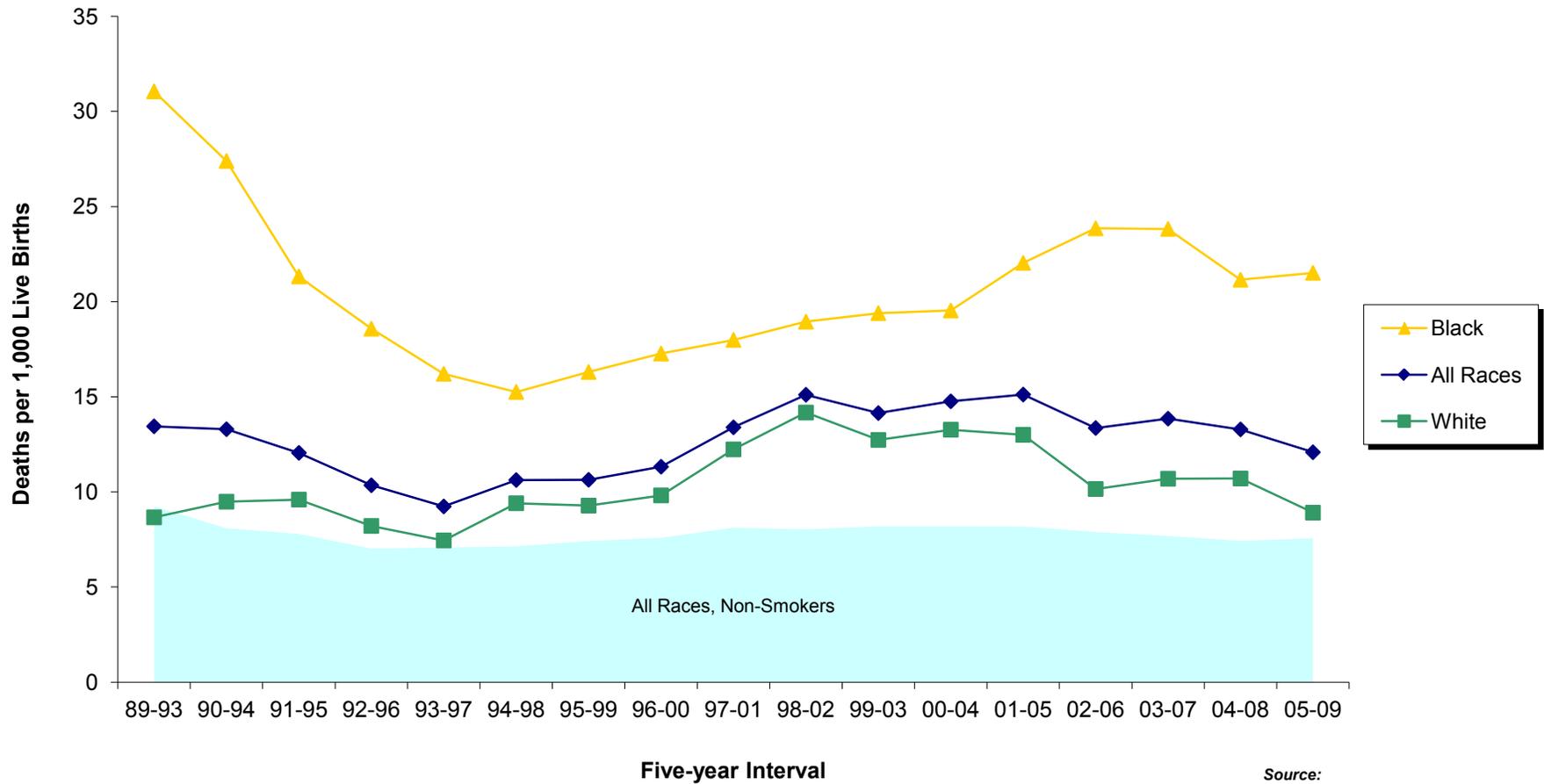
Figure E-5
Five-year Average Infant Mortality Rates by Race and Plurality
Delaware, 1994-2009 Live Birth Cohort



Source:
 Delaware Health Statistics Center

Figure E-6
Five-year Average Infant Mortality Rates by Race of Mothers who Smoked during
Pregnancy versus all Non-smoking Mothers

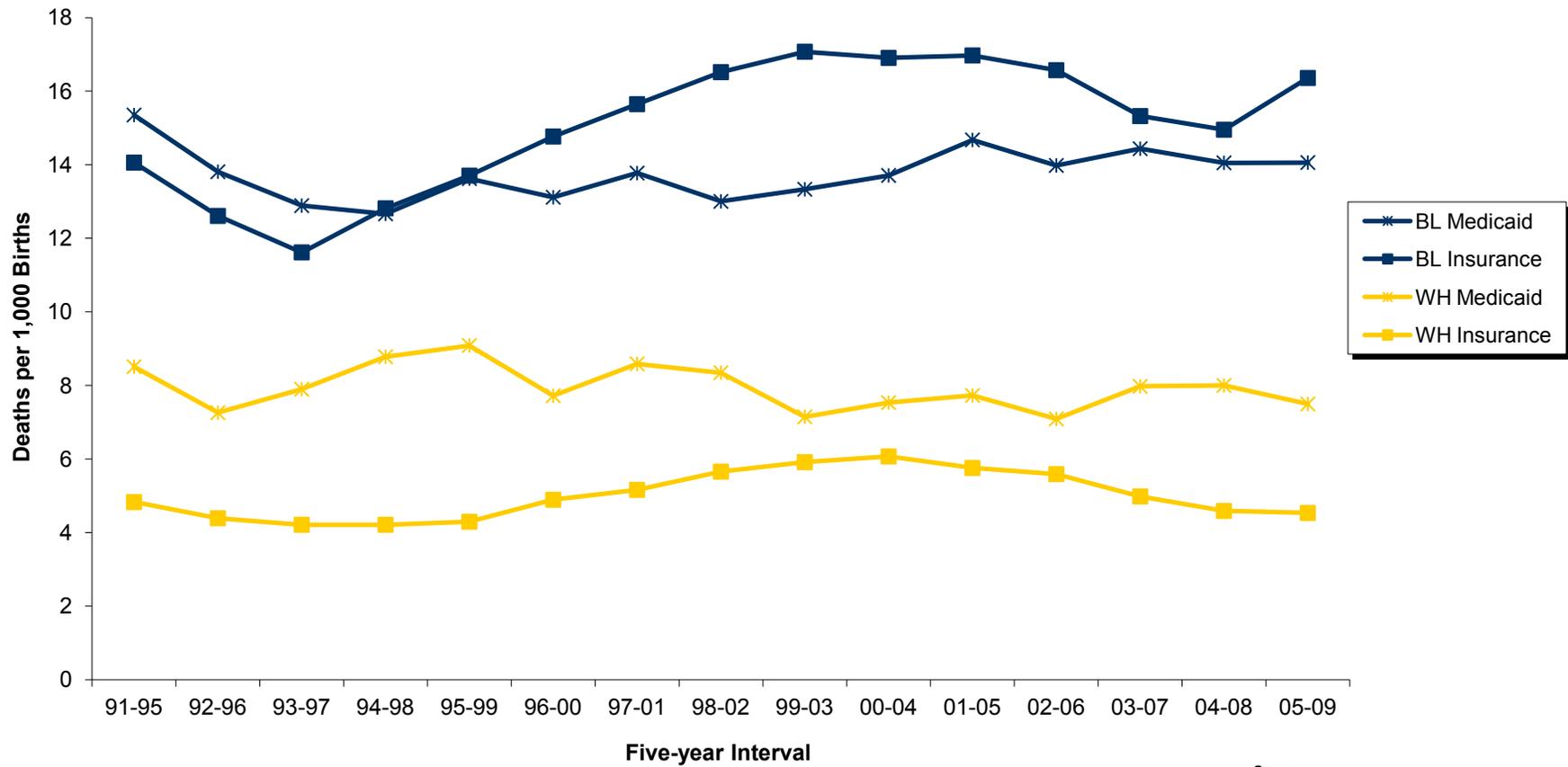
Delaware, 1989-2009 Live Birth Cohort



Source:
 Delaware Health Statistics Center

Figure E-7
Five-year Average Infant Mortality Rates by Race and
Source of Payment for Delivery

Delaware, 1991-2009 Live Birth Cohort



Source:
 Delaware Health Statistics Center

TABLE E-10
NUMBER OF INFANT DEATHS BY PLURALITY, BIRTH WEIGHT IN GRAMS, RACE OF MOTHER AND SEX OF CHILD
DELAWARE, 2005-2009 LIVE BIRTH COHORT

Plurality/ Birth Weight	Race and Sex										
	All Races			White			Black			Other	
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male
All Births	482	256	226	233	129	104	231	117	114	18	10
<2500	376	197	179	169	95	74	193	94	99	14	8
<1500	312	169	143	136	82	54	165	81	84	11	6
<500	150	76	74	50	28	22	96	46	50	4	2
500-999	134	73	61	68	41	27	61	30	31	5	2
1000-1499	28	20	8	18	13	5	8	5	3	2	2
1500-1999	30	12	18	17	6	11	12	6	6	1	0
2000-2499	34	16	18	16	7	9	16	7	9	2	2
2500+	102	56	46	62	33	29	37	22	15	3	1
2500-2999	42	23	19	27	16	11	14	7	7	1	0
3000-3499	37	22	15	17	8	9	18	13	5	2	1
3500-3999	18	8	10	14	6	8	4	2	2	0	0
4000-4499	3	2	1	3	2	1	0	0	0	0	0
4500+	2	1	1	1	1	0	1	0	1	0	0
Unknown	4	3	1	2	1	1	1	1	0	1	1
Single Births	396	209	187	190	100	90	190	100	90	16	9
<2500	296	153	143	128	67	61	155	79	76	13	7
<1500	235	127	108	96	55	41	129	67	62	10	5
<500	116	58	58	34	18	16	78	38	40	4	2
500-999	99	56	43	50	29	21	44	25	19	5	2
1000-1499	20	13	7	12	8	4	7	4	3	1	1
1500-1999	30	12	18	17	6	11	12	6	6	1	0
2000-2499	31	14	17	15	6	9	14	6	8	2	2
2500+	97	54	43	60	32	28	35	21	14	2	1
2500-2999	38	22	16	25	15	10	13	7	6	0	0
3000-3499	36	21	15	17	8	9	17	12	5	2	1
3500-3999	18	8	10	14	6	8	4	2	2	0	0
4000-4499	3	2	1	3	2	1	0	0	0	0	0
4500+	2	1	1	1	1	0	1	0	1	0	0
Unknown	3	2	1	2	1	1	0	0	0	1	1
Plural Births	86	47	39	43	29	14	41	17	24	2	1
<2500	80	44	36	41	28	13	38	15	23	1	1
<1500	77	42	35	40	27	13	36	14	22	1	1
<500	34	18	16	16	10	6	18	8	10	0	0
500-999	35	17	18	18	12	6	17	5	12	0	0
1000-1499	8	7	1	6	5	1	1	1	0	1	1
1500-1999	0	0	0	0	0	0	0	0	0	0	0
2000-2499	3	2	1	1	1	0	2	1	1	0	0
2500+	5	2	3	2	1	1	2	1	1	1	0
2500-2999	4	1	3	2	1	1	1	0	1	1	0
3000-3499	1	1	0	0	0	0	1	1	0	0	0
3500-3999	0	0	0	0	0	0	0	0	0	0	0
4000-4499	0	0	0	0	0	0	0	0	0	0	0
4500+	0	0	0	0	0	0	0	0	0	0	0
Unknown	1	1	0	0	0	0	1	1	0	0	0

PLBWRCSX

Note:
Infant deaths refer to deaths of children under one year of age.

Source:
Delaware Health Statistics Center

TABLE E-11
NUMBER OF NEONATAL DEATHS BY PLURALITY, BIRTH WEIGHT IN GRAMS, RACE OF MOTHER AND SEX OF CHILD
DELAWARE, 2005-2009 LIVE BIRTH COHORT

Plurality/ Birth Weight	Race and Sex										
	All Races			White			Black			Other	
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male
All Births	346	192	154	160	93	67	174	93	81	12	6
<2500	316	173	143	142	84	58	163	84	79	11	5
<1500	286	158	128	126	77	49	151	77	74	9	4
<500	150	76	74	50	28	22	96	46	50	4	2
500-999	113	65	48	61	37	24	48	27	21	4	1
1000-1499	23	17	6	15	12	3	7	4	3	1	1
1500-1999	15	6	9	8	3	5	6	3	3	1	0
2000-2499	15	9	6	8	4	4	6	4	2	1	1
2500+	27	17	10	16	8	8	10	8	2	1	1
2500-2999	12	8	4	9	5	4	3	3	0	0	0
3000-3499	10	8	2	4	2	2	5	5	0	1	1
3500-3999	2	0	2	1	0	1	1	0	1	0	0
4000-4499	2	1	1	2	1	1	0	0	0	0	0
4500+	1	0	1	0	0	0	1	0	1	0	0
Unknown	3	2	1	2	1	1	1	1	0	0	0
Single Births	269	147	122	120	65	55	138	77	61	11	5
<2500	241	130	111	103	57	46	128	69	59	10	4
<1500	212	116	96	87	50	37	117	63	54	8	3
<500	116	58	58	34	18	16	78	38	40	4	2
500-999	81	48	33	44	25	19	33	22	11	4	1
1000-1499	15	10	5	9	7	2	6	3	3	0	0
1500-1999	15	6	9	8	3	5	6	3	3	1	0
2000-2499	14	8	6	8	4	4	5	3	2	1	1
2500+	26	16	10	15	7	8	10	8	2	1	1
2500-2999	11	7	4	8	4	4	3	3	0	0	0
3000-3499	10	8	2	4	2	2	5	5	0	1	1
3500-3999	2	0	2	1	0	1	1	0	1	0	0
4000-4499	2	1	1	2	1	1	0	0	0	0	0
4500+	1	0	1	0	0	0	1	0	1	0	0
Unknown	2	1	1	2	1	1	0	0	0	0	0
Plural Births	77	45	32	40	28	12	36	16	20	1	1
<2500	75	43	32	39	27	12	35	15	20	1	1
<1500	74	42	32	39	27	12	34	14	20	1	1
<500	34	18	16	16	10	6	18	8	10	0	0
500-999	32	17	15	17	12	5	15	5	10	0	0
1000-1499	8	7	1	6	5	1	1	1	0	1	1
1500-1999	0	0	0	0	0	0	0	0	0	0	0
2000-2499	1	1	0	0	0	0	1	1	0	0	0
2500+	1	1	0	1	1	0	0	0	0	0	0
2500-2999	1	1	0	1	1	0	0	0	0	0	0
3000-3499	0	0	0	0	0	0	0	0	0	0	0
3500-3999	0	0	0	0	0	0	0	0	0	0	0
4000-4499	0	0	0	0	0	0	0	0	0	0	0
4500+	0	0	0	0	0	0	0	0	0	0	0
Unknown	1	1	0	0	0	0	1	1	0	0	0

NEOPLBW

Note:
Neonatal deaths refer to deaths of children under 28 days of age.

Source:
Delaware Health Statistics Center