

# DELAWARE VITAL STATISTICS ANNUAL REPORT INFANT MORTALITY, 2020



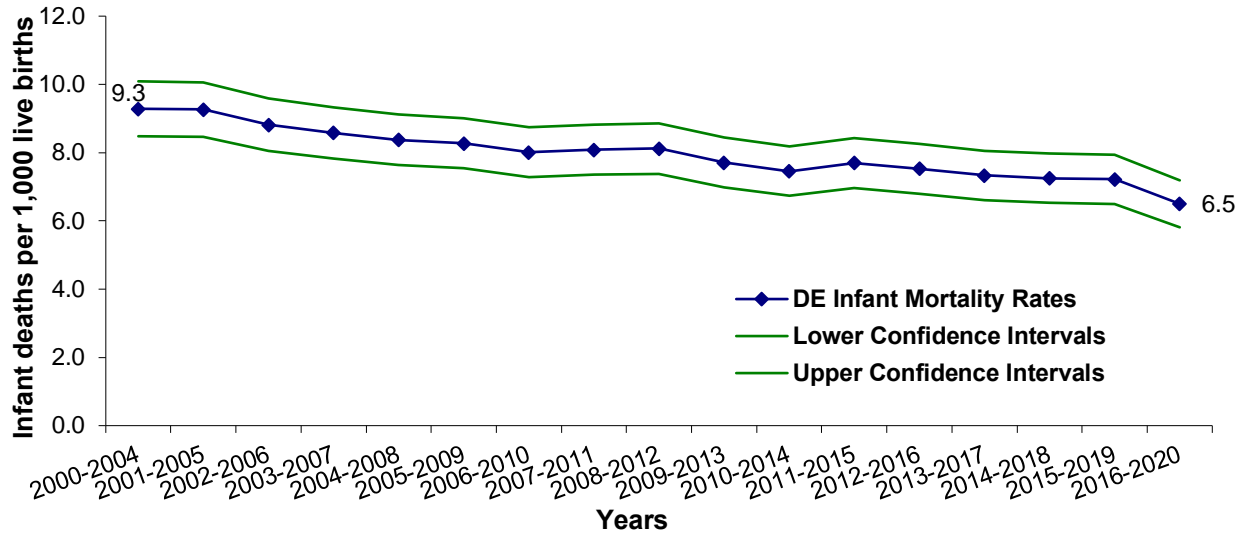
*Suggested Citation:*

Delaware Health Statistics Center. *Delaware Vital Statistics Annual Report, 2020*.  
Delaware Department of Health and Social Services, Division of Public Health: 2023.

## INFANT MORTALITY

In 2016-2020, Delaware's infant mortality rate (IMR) was 6.5 infant deaths per 1,000 live births, resulting in a total decline of 30.1 percent from the 2000-2004 rate of 9.3 infant deaths per 1,000 live births.

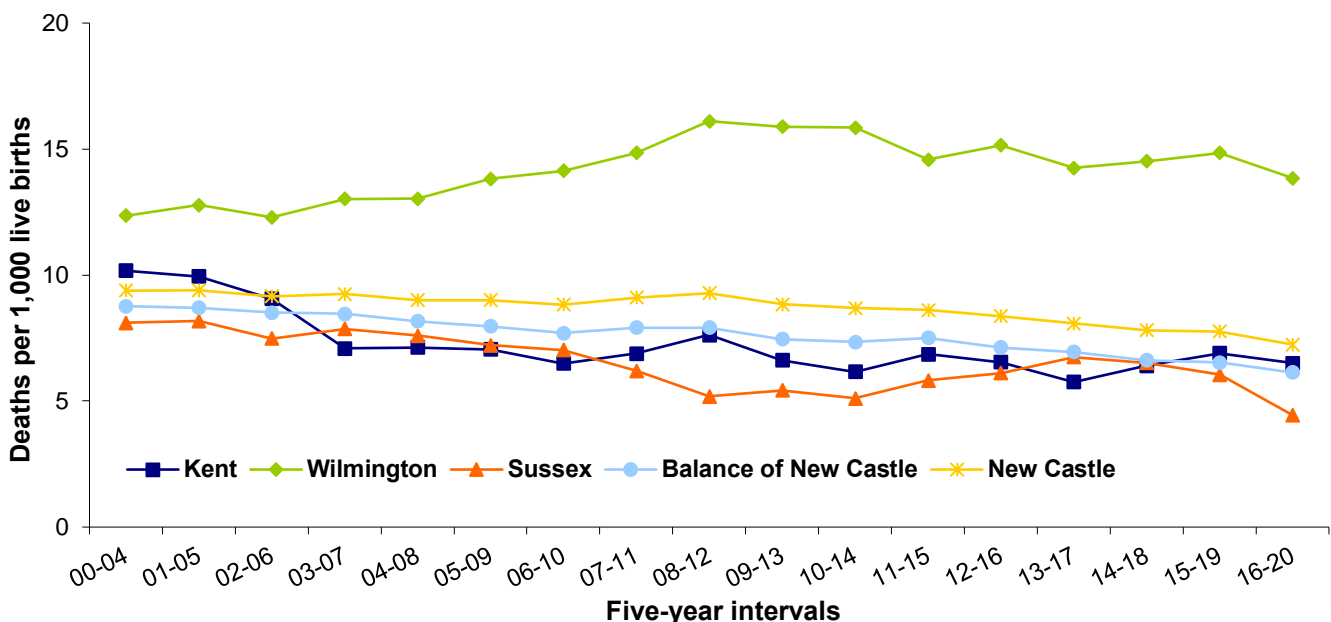
**Figure 27. Five-year Average Infant Mortality Rates with Confidence Intervals, Delaware, 2000-2020**



Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

Wilmington's IMR continued to be the highest in Delaware. The combination of Wilmington's high IMR and a high IMR in the balance of New Castle County resulted in New Castle County's IMR being higher than the IMRs of both Kent and Sussex counties at 7.2 infant deaths per 1,000 live births. In 2016-2020 Sussex County's IMR remained the lowest at 4.4 infant deaths per 1,000 live births. During the same time period the balance of New Castle County's IMR was 6.1 infant deaths per 1,000 live births; Wilmington's IMR was 13.8 infant deaths per 1,000 live births; and Kent County's IMR was 6.5 infant deaths per 1,000 live births.

**Figure 28. Five-year Average Infant Mortality Rates, Delaware Counties and City of Wilmington, Delaware, 2000-2020**

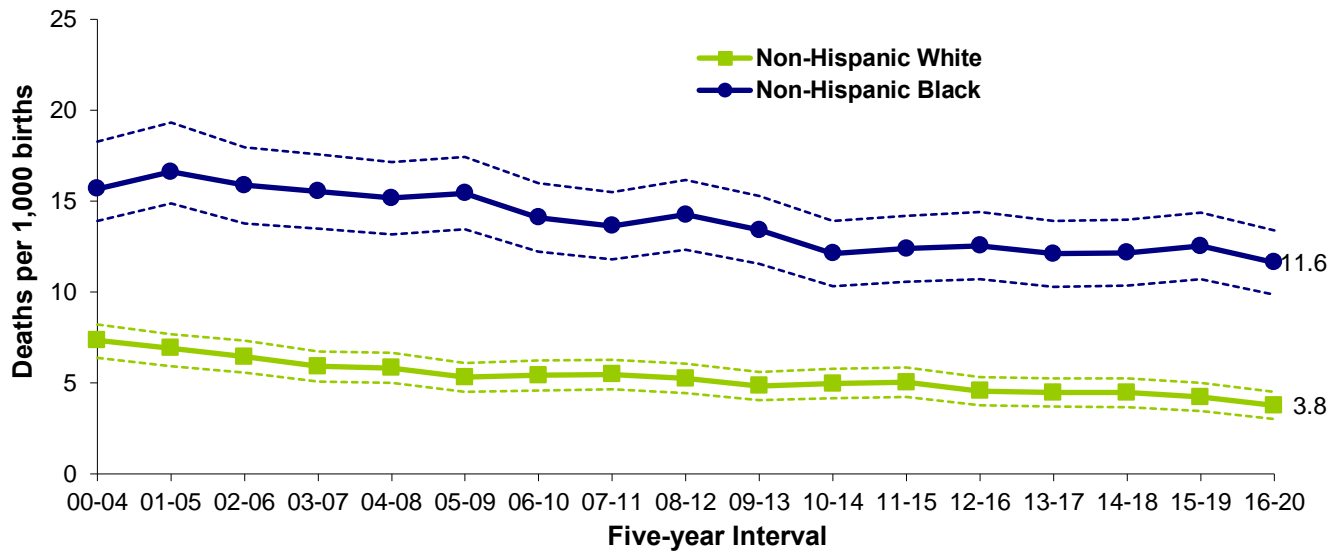


Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

## INFANT MORTALITY- Leading Causes of Death

Non-Hispanic black infants experienced a lower percentage decline in mortality rates than non-Hispanic white infants. In 2016-2020 the non-Hispanic black IMR of 11.6 infant deaths per 1,000 live births was a 30 percent decrease from the 16.4 rate in 2001-2005. Non-Hispanic white IMR decreased 46 percent from 6.8 in 2001-2005 to 3.8 infant deaths per 1,000 live births in 2016-2020.

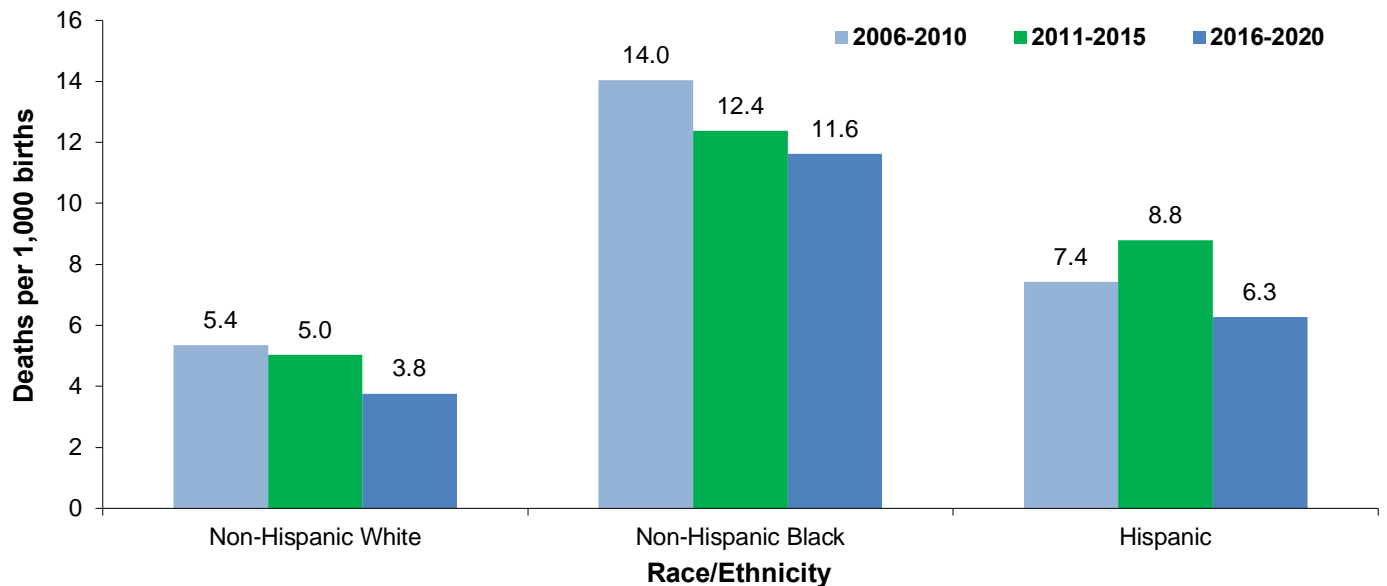
**Figure 29. Five-year Average Black and White Infant Mortality Rates with Confidence Intervals, Delaware, 2000-2020**



Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

Significant disparities existed between non-Hispanic black and non-Hispanic white infant mortality rates as well as Hispanic IMRs. Non-Hispanic black IMRs were highest in all three time periods depicted below with the highest rate of 14.0 infant deaths per 1,000 live births in 2006-2010. Hispanic IMRs were nearly twice the non-Hispanic white IMRs in 2016-2020. The non-Hispanic black rate in 2016-2020 was nearly two times higher than the Hispanic rate of 6.3 infant deaths per 1,000 live births. From 2011-2015 to 2016-2020 the Hispanic IMR decreased 28 percent (8.8 to 6.3 infant deaths per 1,000 live births).

**Figure 30. Five-year Average Infant Mortality Rates by Race and Hispanic Origin, Delaware, 2006-2020**

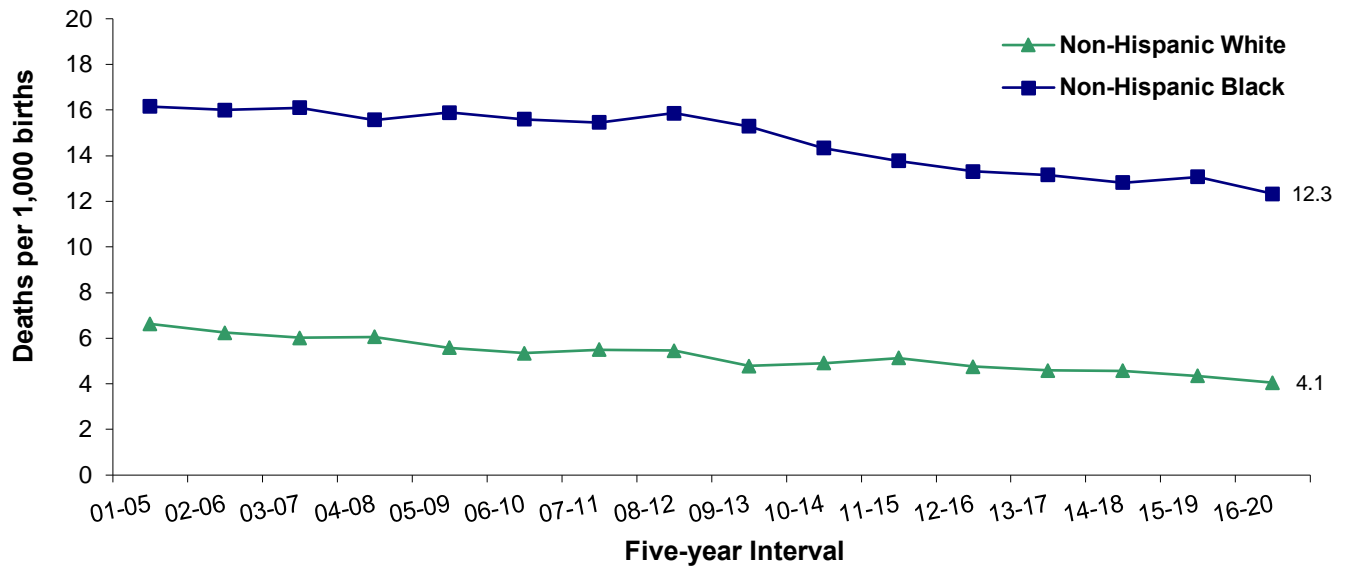


Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

## INFANT MORTALITY- Leading Causes of Death

In 2016-2020, New Castle County had the highest IMRs and Sussex had the lowest. Non-Hispanic black five year average IMRs in New Castle County were stable at 16 infant deaths per 1,000 live births from 2001-2005 to 2008-2012, and decreased 23 percent to 12.3 infant deaths per 1,000 live births in 2016-2020. Disparity between the races is evident in all three counties, with the New Castle non-Hispanic black rate 200 percent higher than the non-Hispanic white rate for 2016-2020.

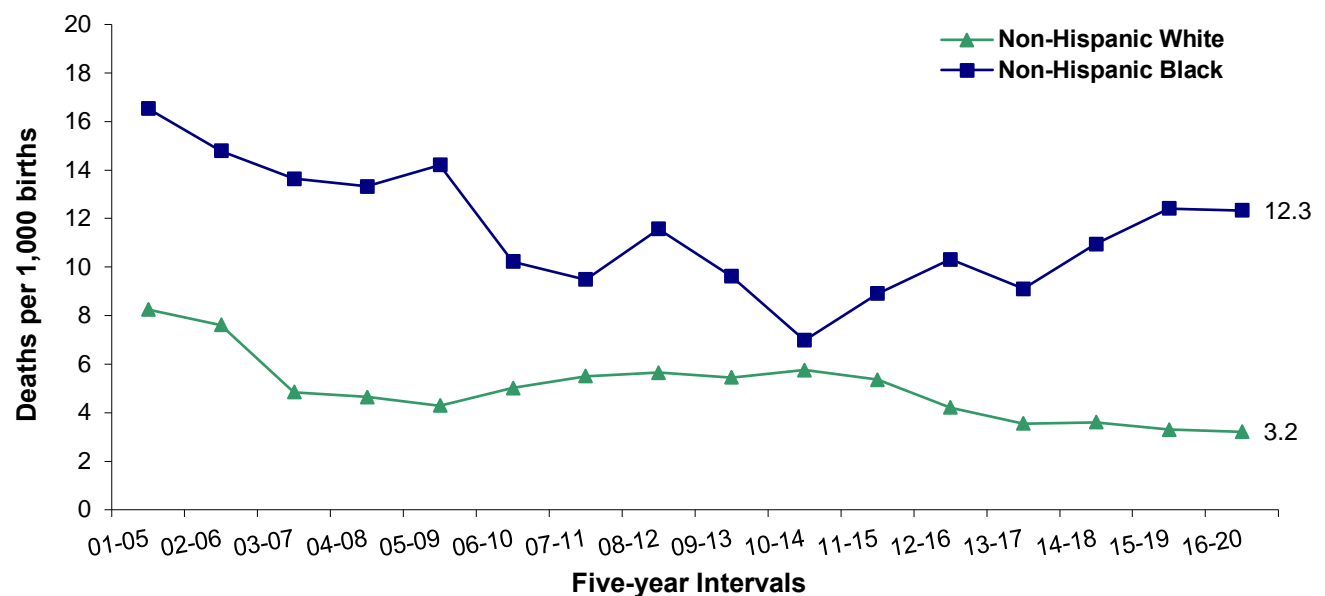
**Figure 31. Five-year Average Infant Mortality Rates by Race, New Castle County Delaware, 2001-2020**



Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

Non-Hispanic black IMRs in Kent County peaked at 16.5 infant deaths per 1,000 live births in 2001-2005. The non-Hispanic black IMR decreased 25 percent to 12.3 infant death per 1,000 live births in 2016-2020. The non-Hispanic white IMR had a 61 percent decrease from 2001-2005 to 2016-2020 (8.2 to 3.2 infant deaths per 1,000 live births). The non-Hispanic Black IMR was 284 percent higher than the non-Hispanic white IMR.

**Figure 32. Five-year Average Infant Mortality Rates by Race, Kent County, Delaware, 2001-2020**

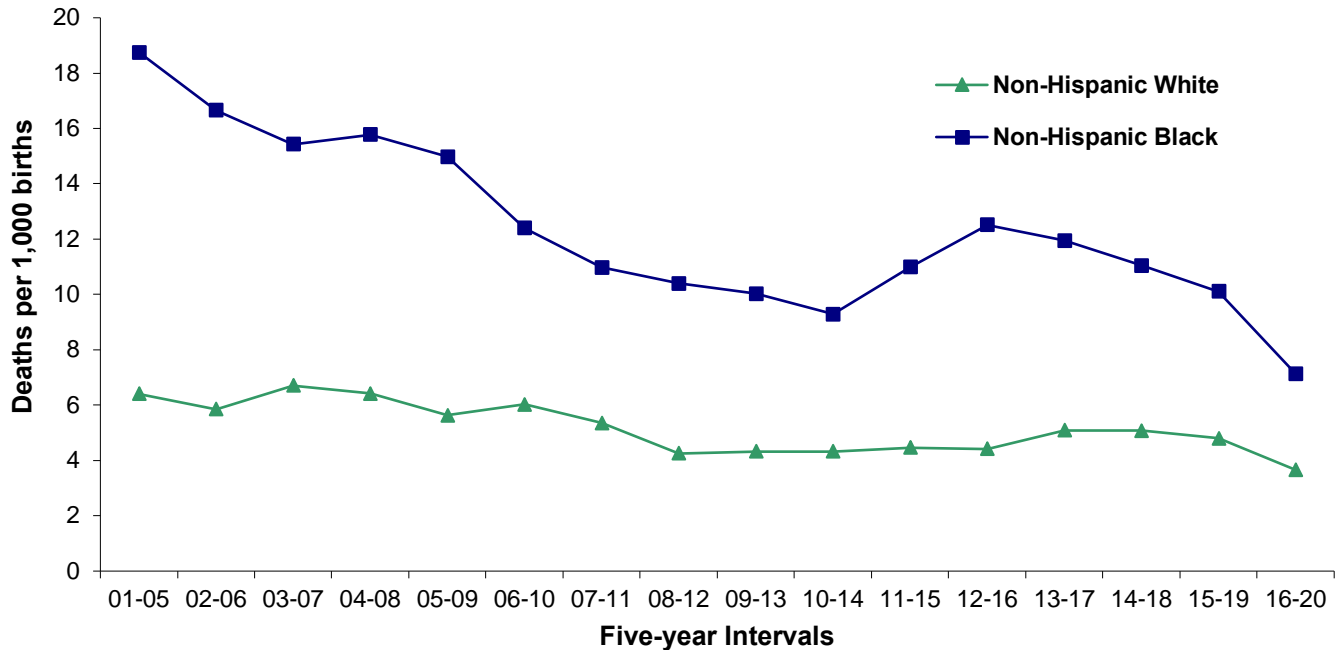


Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

## INFANT MORTALITY- Leading Causes of Death

Sussex County's non-Hispanic black IMR decreased to 7.1 infant deaths per 1,000 live births in 2016-2020, a 62 percent reduction from the 2001-2005 peak of 18.8 infant deaths per 1,000 live births. Sussex County's non-Hispanic white IMR had a 45 percent decrease from its peak in 2003-2007 (6.7 infant deaths per 1,000 live births). Sussex County had the smallest disparity between the races with non-Hispanic black IMRs 92 percent higher than non-Hispanic white IMRs in 2016-2020.

**Figure 33. Five-year Average Infant Mortality Rates by Race, Sussex County, Delaware, 2001-2020**



Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

## INFANT MORTALITY- Leading Causes of Death

In 2016-2020 there were 345 infant deaths. The five leading causes of infant death in Delaware were:

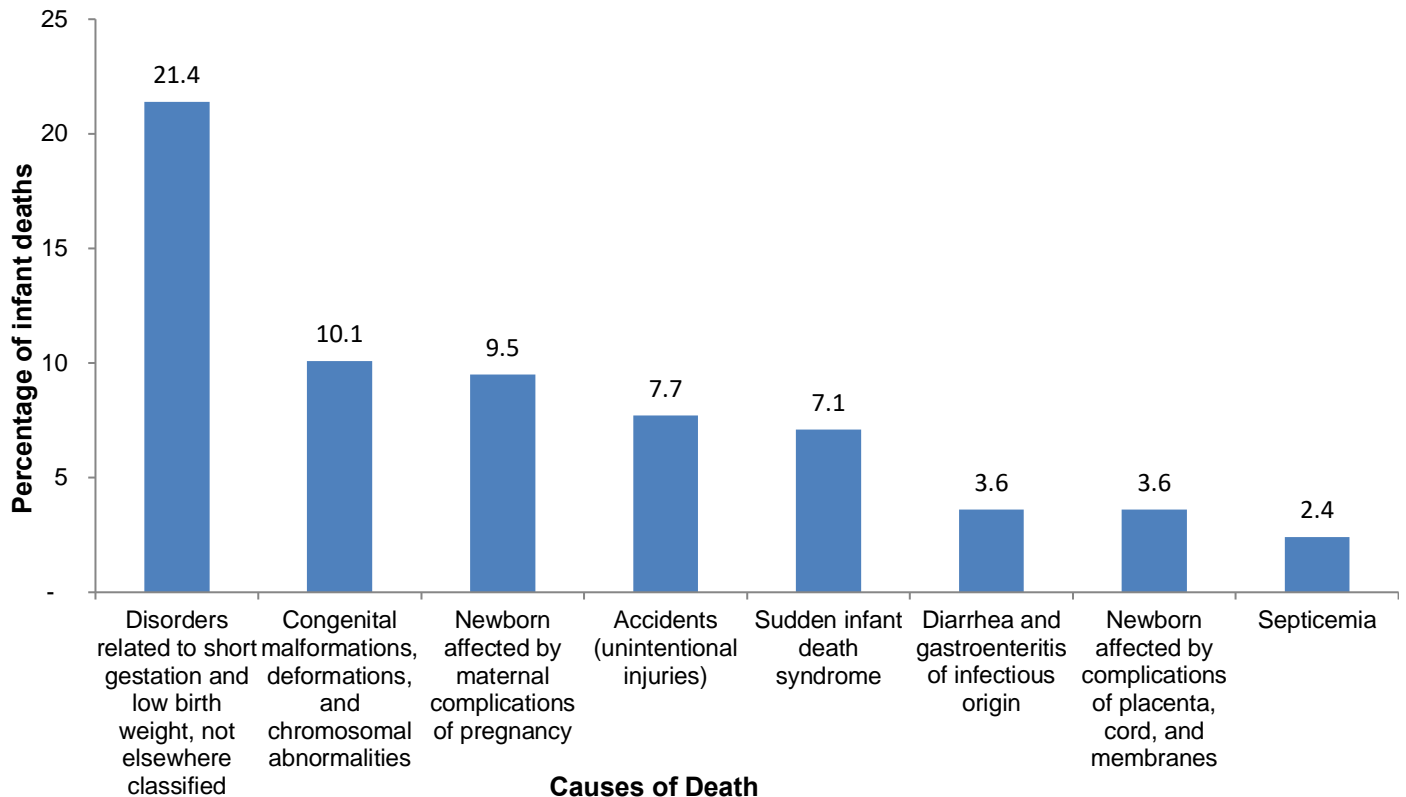
- Disorders related to short gestation and low birthweight, which accounted for 21.4 percent of infant deaths.
- Congenital anomalies (birth defects), which accounted for 16.5 percent of infant deaths.
- Newborns affected by maternal complications of pregnancy, which accounted for 8.4 percent of infant deaths. Of the 29 deaths attributed to this cause, 24 were due to the newborn being affected by incompetent cervix and premature rupture of membranes
- Sudden infant death syndrome (SIDS), which accounted for 6.4 percent of all infant deaths.
- Accidents (unintentional injuries), which accounted for 4.3 percent of infant deaths.

In sum, the five most common causes of infant death accounted for 57 percent, or 197 of the 345 total infant deaths.

The most frequent causes of death by race are shown in Figures 34-36. Birth defects and disorders related to short gestation and low birthweight were the top two most frequent causes of death non-Hispanic black, non-Hispanic white, and Hispanic infants.

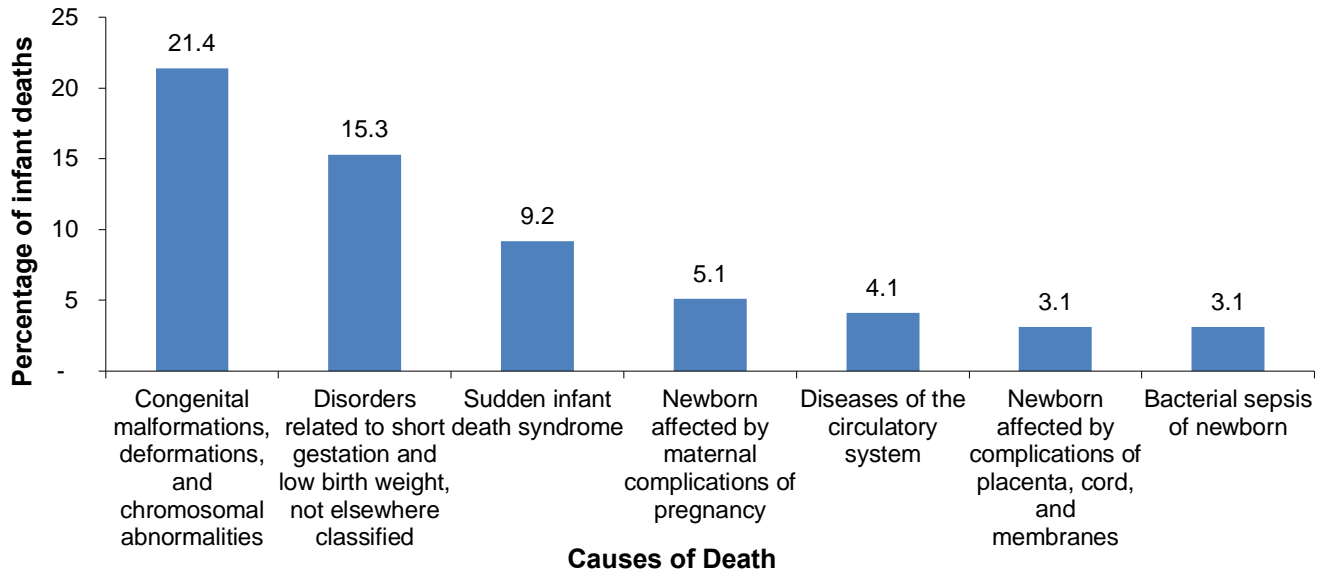
Though the proportions of deaths by race were similar for many of the causes of death, notable exceptions were accidents and disorders due to prematurity and low birthweight. In 2016-2020, while accidents were responsible for one percent of all non-Hispanic white infant deaths, they accounted for eight percent of non-Hispanic black infant deaths. In 2016-2020, infant deaths due to disorders related to prematurity and low birthweight also accounted for larger percentages of non-Hispanic black infant deaths (21 percent) than non-Hispanic white infant deaths (15 percent).

**Figure 34. Percentage of the Most Frequent Causes of Non-Hispanic Black Infant Deaths, Delaware, 2016-2020**



Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

**Figure 35. Percentage of the Most Frequent Causes of Non- Hispanic White Infant Deaths, Delaware 2016-2020**

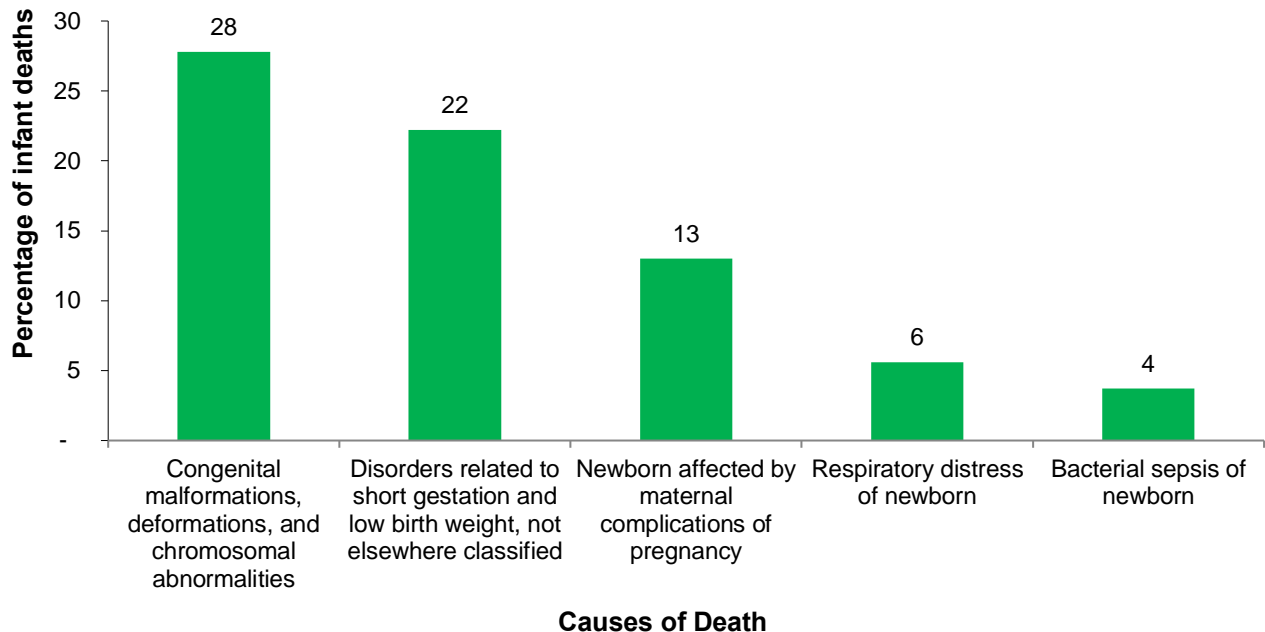


Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

In 1989-1993, Hispanic births 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 more than quadrupled. In the most recent five-year period, 2016-2019, 16.2 percent of all live births were to Hispanic mothers, and 15.7 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.

**Figure 36. Percentage of the Most Frequent Causes of Hispanic Infant Death, Delaware, 2016-2020**

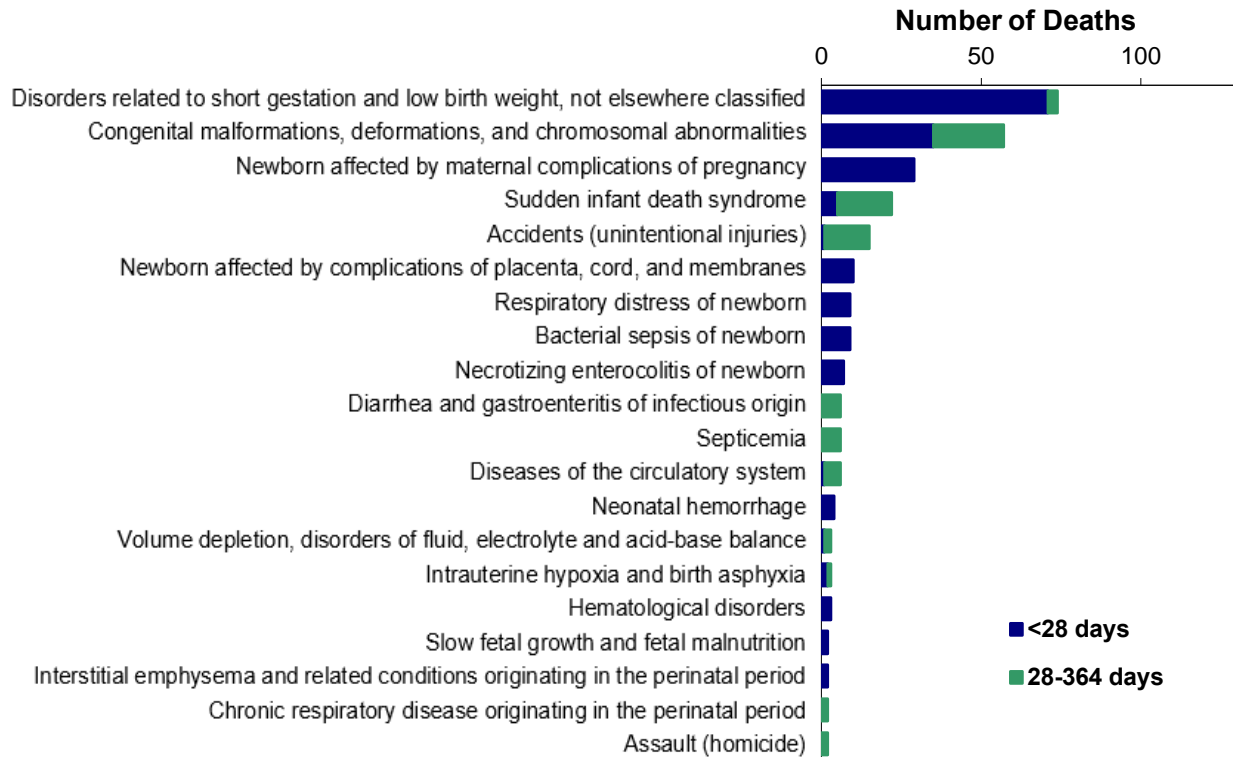


Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics

## INFANT MORTALITY- Leading Causes of Death

In 2016-2020, approximately 93 percent of all infant deaths occurred within the first six months of life, 67 percent occurred within the first 28 days of life, and 37 percent occurred within 24 hours of birth.

**Figure. 37 Most Frequent Causes of Infant Death, Delaware, 2016-2020**



Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

Figure 37 displays deaths by specific cause and the infant's age classification at death: neonatal (<28 days), or postneonatal (28-364 days).

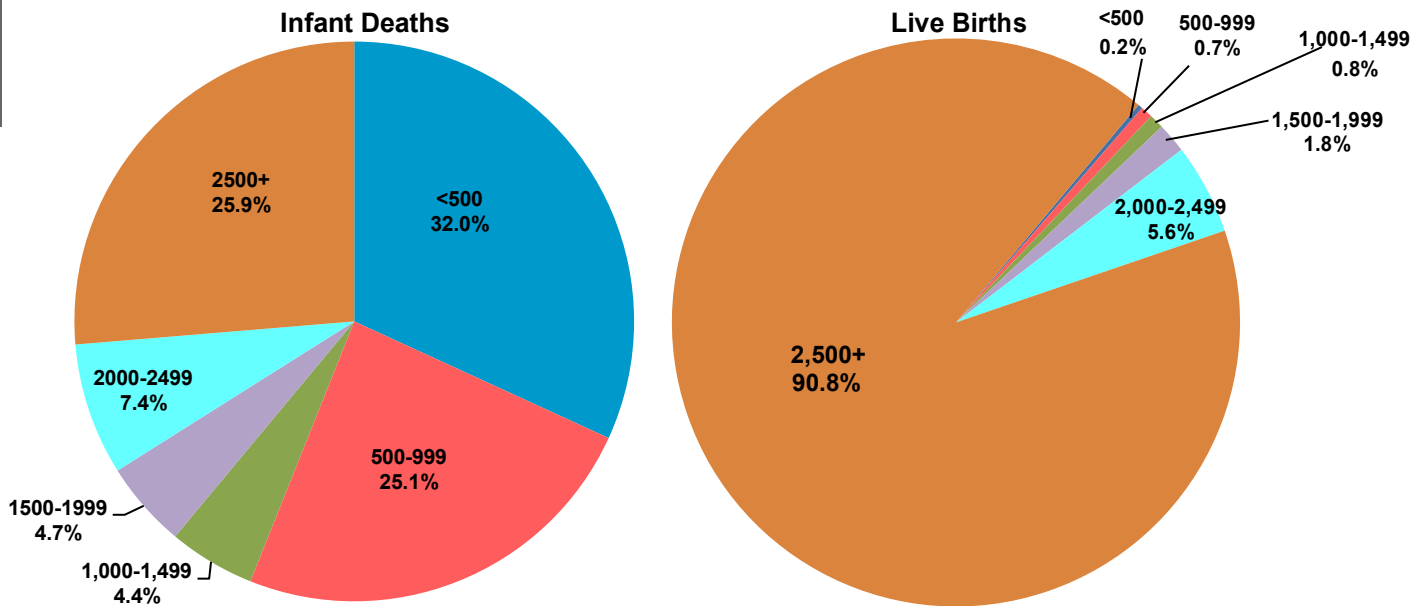
- Prematurity and low birthweight accounted for the greatest number of infant deaths in 2016-2020; 96 percent of these deaths occurred in the neonatal period.
- The majority of sudden infant death syndrome (SIDS) deaths occurred in the postneonatal period, with a mean age at death of 80 days. SIDS deaths decreased 24 percent from 2011-2015 to 2016-2020 (29 to 22 SIDS deaths). The number of infant deaths in 2016-2020 (345) decreased 19 percent from the number of infant deaths in 2011-2015 (424).
- Forty-six percent (10 out of 22) of the SIDS deaths were associated with co-sleeping and/or sleeping on soft surfaces, such as couches and adult beds.
- In 2016-2020, there were 14 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, seven percent of all infant deaths were associated with co-sleeping and/or unsafe sleep practices.



## INFANT MORTALITY - Live Birth Cohort

Although only 1 percent of all live births in 2015-2019 were infants weighing less than 1,000 grams, they accounted for over half (57 percent) of all infant deaths. In total, nine percent of all live births in 2015-2019 were infants of low birthweight (under 2,500 grams) and 73.6 percent of infant deaths were low birthweight.

**Figure 38. Percent Distribution by Birthweight in Grams, Delaware, Live Birth Cohort, 2015-2019**

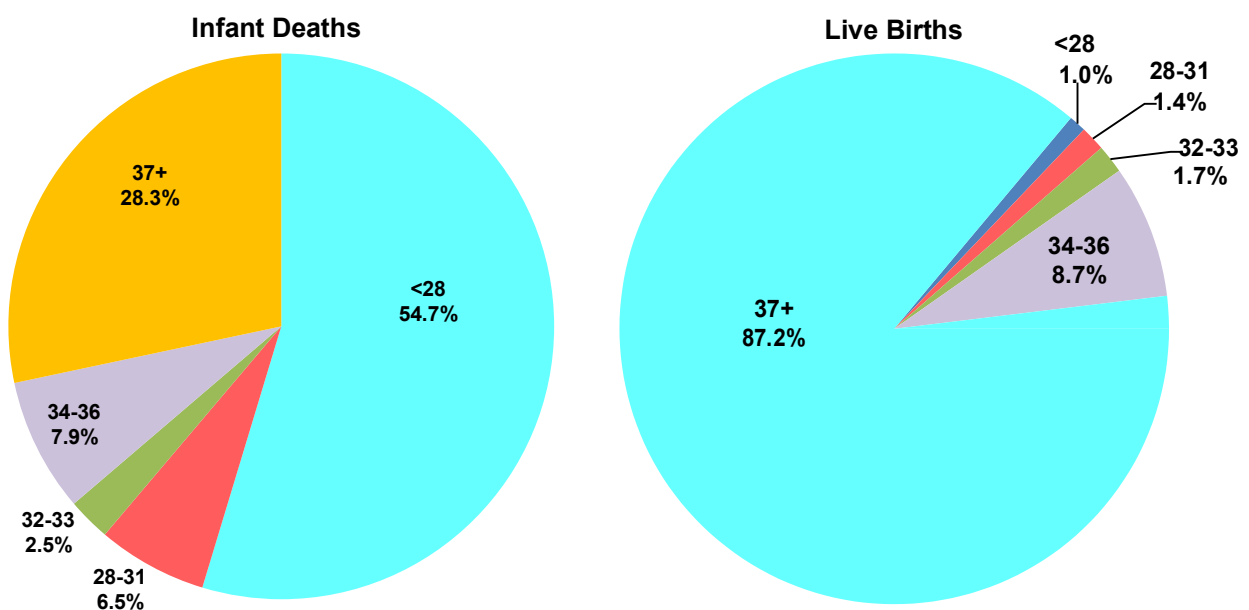


Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

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 2015-2019 were less than 28 weeks gestation at birth, but they accounted for 54.7 percent of all infant deaths. In total, 12.7 percent of all live births in 2015-2019 were born preterm (<37 weeks of gestation) and 71.7 percent of infant deaths were preterm.

**Figure 39. Distribution by Gestation in Weeks, Delaware, Live Birth Cohort, 2015-2019**



Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

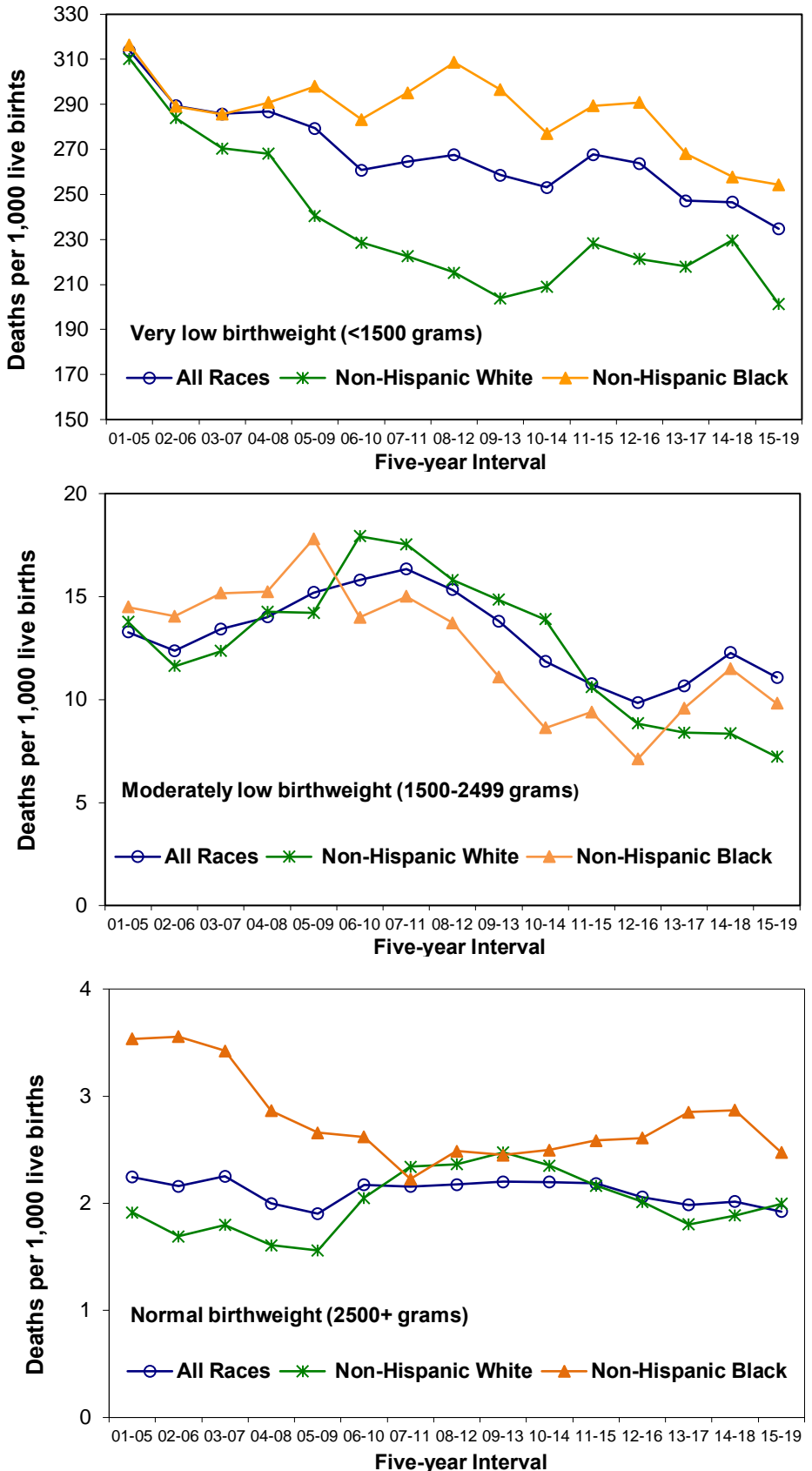
Birthweight and gestation are considered to be the most important predictors of infant health and mortality risk. Infants born too small or too early have a much greater risk of mortality than those who reach a normal birthweight (2,500+ grams) or full-term gestation (37+ weeks).

Although the IMRs decreased for both non-Hispanic white and non-Hispanic black for very low birthweight (VLBW) (<1,500 grams) since 2001-2005, the non-Hispanic black IMR of 254.3 was significantly higher than the non-Hispanic white IMR of 201.3 infant deaths per 1,000 live births in 2015-2019.

IMRs for moderately low birthweight infants of all races decreased 32 percent from its high point in 2007-2011 to 2015-2019. During that time, non-Hispanic white IMRs decreased 59 percent while the non-Hispanic black IMR decreased by 35 percent, making the non-Hispanic black IMR higher than the non-Hispanic white IMR (9.8 vs 7.2).

In 2007-2011 IMRs for normal birthweight non-Hispanic white and non-Hispanic black infants were nearly the same at 2.3 and 2.2, respectively. By 2015-2019, the non-Hispanic white IMR decreased 13 percent to 2.0 but the non-Hispanic black IMR increased 14 percent to 2.5 infant deaths per 1,000 live births. The IMR for all races had a 14 percent decrease for the same time period.

**Figure 40. Five-year Average Infant Mortality Rates by Birthweight and Race, Delaware, 2001-2019 Live Birth Cohort**

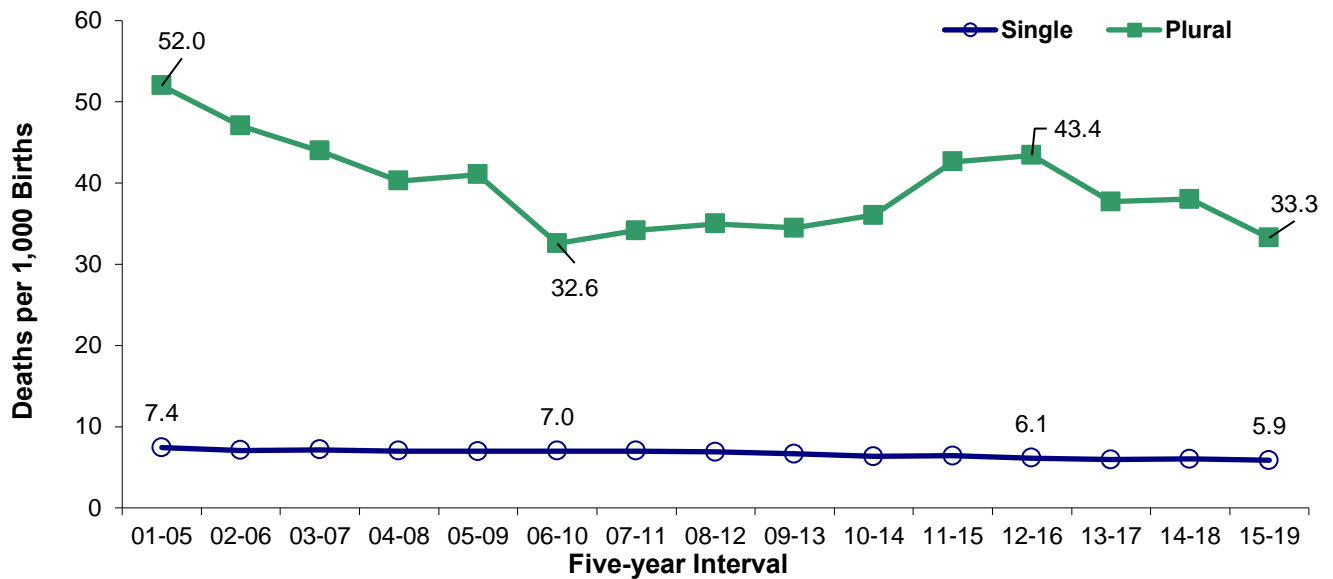


Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

## INFANT MORTALITY - Live Birth Cohort

From 2001-2005 to 2006-2010, IMRs for plural births decreased 37 percent, from 52 to 33 infant deaths per 1,000 live births. Since 2006-2010, IMRs for plural births increased two percent from 32.6 to 33.3 infant deaths per 1,000 live births. IMRs for singleton births decreased 20 percent from 2001-2005 to 2015-2019. In 2015-2019, the infant mortality rate for plural births was nearly six times that of singleton births (33.3 versus 5.9 infant deaths per 1,000 live births, respectively).

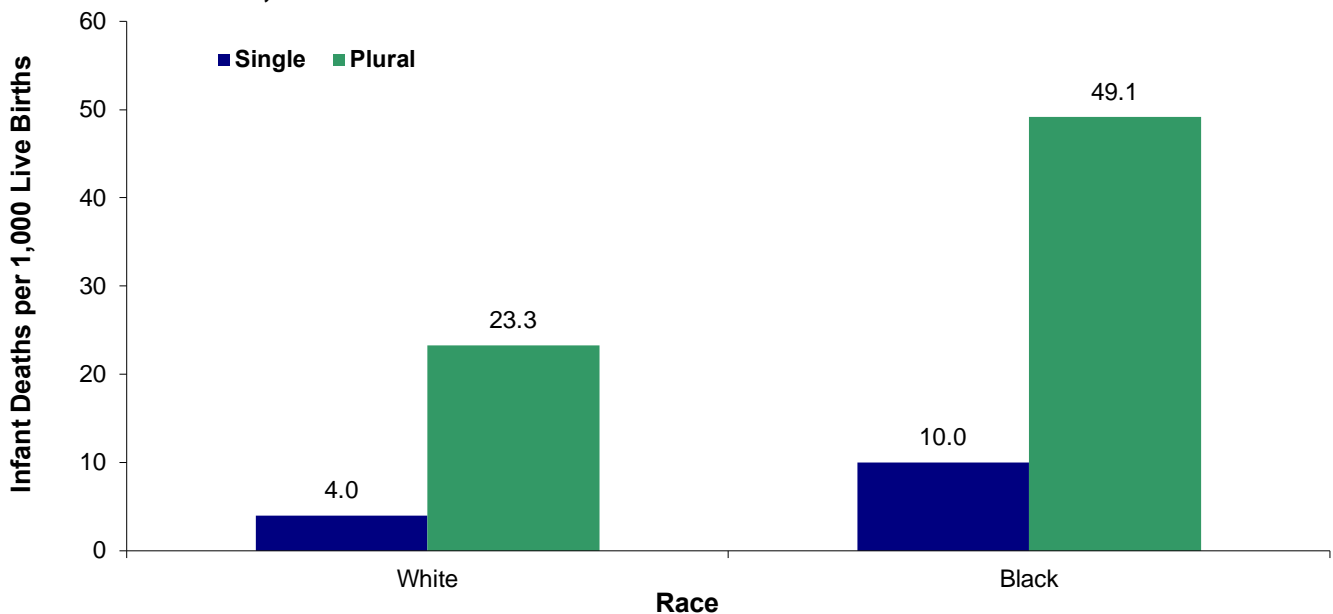
**Figure 41. Five-year Average Infant Mortality Rates by Plurality, Delaware, Live Birth Cohort, 2001-2019**



Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

The difference between singleton and plural IMRs was evident regardless of race. The non-Hispanic black IMR was more than twice the non-Hispanic white IMR for singleton births and two times greater for plural births.

**Figure 42. Five-year Average Infant Mortality Rates by Plurality and Race, Delaware, Live Birth Cohort, 2015-2019**



Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

**TABLE E-1. NUMBER OF INFANT DEATHS BY RACE, COUNTY, AND CITY OF WILMINGTON, U.S., DELAWARE, 2003-2020**

Area/ Race	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>U.S.</b>																		
All Races	27,995	27,860	28,384	28,509	29,153	28,075	26,408	24,572	24,001	23,654	23,446	23,211	23,458	23,157	22,341	21,498	20,927	N/A
Non-Hispanic White	13,228	13,001	13,134	12,884	13,005	12,509	11,785	11,192	10,886	10,759	10,766	10,515	10,444	10,204	9,520	9,059	8,603	N/A
Non-Hispanic Black	7,836	7,869	7,958	8,241	8,351	7,894	7,560	6,758	6,670	6,528	6,488	6,435	6,624	6,545	6,390	5,933	5,821	N/A
Non-Hispanic Other	1,331	1,334	1,380	1,368	1,516	1,452	1,397	1,324	1,338	1,363	1,280	1,273	1,401	1,380	1,402	2,203	2,041	N/A
<b>Delaware</b>																		
All Races	107	97	106	99	91	101	91	88	98	84	68	74	100	87	72	62	68	56
Non-Hispanic White	41	43	36	39	33	37	24	38	39	24	22	27	38	23	18	19	16	22
Non-Hispanic Black	49	44	53	44	38	49	52	35	38	43	33	29	38	39	37	33	35	24
Non-Hispanic Other	1	2	3	4	1	0	7	4	10	6	1	6	6	8	3	2	7	5
<b>Kent</b>																		
All Races	16	17	21	13	9	18	18	15	17	17	6	13	23	14	8	13	17	18
Non-Hispanic White	8	8	6	7	4	7	6	11	10	5	5	8	8	2	0	5	5	7
Non-Hispanic Black	7	8	14	5	4	7	12	3	3	10	1	4	9	8	7	7	9	9
Non-Hispanic Other	0	1	1	1	1	0	0	0	1	0	0	0	1	1	0	1	2	2
<b>New Castle</b>																		
All Races	78	60	68	68	60	70	57	58	74	58	48	49	54	62	48	37	44	34
Non-Hispanic White	27	25	23	22	19	25	13	17	24	16	12	14	19	16	11	9	8	12
Non-Hispanic Black	37	27	30	35	27	36	33	29	34	28	27	20	23	27	26	23	23	15
Non-Hispanic Other	1	0	2	2	0	0	5	3	9	6	1	6	4	7	3	0	5	3
Wilmington																		
All Races	18	12	18	16	17	19	18	18	17	20	14	14	10	18	15	13	13	3
Non-Hispanic White	1	1	1	1	1	2	0	1	2	4	0	3	2	0	1	1	2	0
Non-Hispanic Black	13	8	14	14	14	10	15	13	15	11	11	7	4	14	10	12	7	3
Non-Hispanic Other	0	0	0	0	0	0	2	0	0	1	0	1	1	2	2	0	0	0
Balance of NC County																		
All Races	60	48	50	52	43	51	39	40	57	38	34	35	44	44	33	24	31	31
Non-Hispanic White	26	24	22	21	18	23	13	16	22	12	12	11	17	16	10	8	6	12
Non-Hispanic Black	24	19	16	21	13	26	18	16	19	17	16	13	19	13	16	11	16	12
Non-Hispanic Other	1	0	2	2	0	0	3	3	9	5	1	5	3	5	1	0	5	3
<b>Sussex</b>																		
All Races	13	20	17	18	22	13	16	15	7	9	14	12	23	11	16	12	7	4
Non-Hispanic White	6	10	7	10	10	5	5	10	5	3	5	5	11	5	7	5	3	3
Non-Hispanic Black	5	9	9	4	7	6	7	3	1	5	5	5	6	4	4	3	3	0
Non-Hispanic Other	0	1	0	1	0	0	2	1	0	0	0	0	1	0	0	1	0	0

Notes:

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

Sources: National Center for Health Statistics  
 Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

**TABLE E-2. NUMBER OF NEONATAL DEATHS BY RACE, COUNTY, AND CITY OF WILMINGTON, U.S., DELAWARE, 2003-2020**

Area/ Race	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>U.S.</b>																		
All Races	18,935	18,602	18,782	19,041	19,094	18,238	17,261	16,193	16,065	15,887	15,893*	15,737	15,672	15,303	14,844	14,329	13,834	N/A
Non-Hispanic White	8,797	8,499	8,452	8,410	8,329	7,936	7,515	7,251	7,103	7,070	7,119*	6,923	6,724	6,486	6,191	5,873	5,589	N/A
Non-Hispanic Black	5,335	5,283	5,332	5,525	5,484	5,159	4,957	4,395	4,437	4,354	4,355*	4,361	4,348	4,323	4,150	3,897	3,754	N/A
Non-Hispanic Other	861	851	895	885	982	916	909	867	893	912	869*	869	937	925	924	1,523	1,400	N/A
<b>Delaware</b>																		
All Races	76	63	79	72	65	68	66	58	73	66	47	55	79	57	48	43	46	36
Non-Hispanic White	29	28	25	28	25	23	15	24	24	16	12	18	32	10	14	12	12	14
Non-Hispanic Black	36	28	39	33	28	35	39	25	35	34	25	20	31	27	22	23	20	14
Non-Hispanic Other	1	2	3	3	0	0	7	4	7	6	1	5	3	7	3	2	4	5
<b>Kent</b>																		
All Races	8	11	14	7	6	12	14	11	13	12	3	10	17	9	5	9	15	10
Non-Hispanic White	3	5	3	4	3	4	4	8	6	3	3	7	7	1	0	3	4	4
Non-Hispanic Black	4	5	10	3	3	5	10	2	3	8	0	2	6	5	5	5	8	4
Non-Hispanic Other	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	1	2	2
<b>New Castle</b>																		
All Races	57	39	54	52	43	48	42	36	57	47	34	37	49	43	36	27	28	24
Non-Hispanic White	22	16	17	15	14	16	9	8	16	12	6	7	17	7	11	6	7	8
Non-Hispanic Black	27	18	23	28	20	27	23	22	32	21	22	16	23	20	16	17	11	10
Non-Hispanic Other	1	0	2	2	0	0	5	3	6	6	1	5	3	6	3	0	2	3
Wilmington																		
All Races	11	9	15	12	10	10	14	10	14	18	11	12	10	15	9	9	6	2
Non-Hispanic White	0	1	1	0	1	0	0	0	1	4	0	3	2	0	1	1	2	0
Non-Hispanic Black	10	6	11	11	9	6	11	9	13	9	8	5	4	11	5	8	2	2
Non-Hispanic Other	0	0	0	0	0	0	2	0	0	1	0	1	1	2	2	0	0	0
Balance of NC County																		
All Races	46	30	39	40	33	38	28	26	43	29	23	25	39	28	27	18	22	22
Non-Hispanic White	22	15	16	15	13	16	9	8	15	8	6	4	15	7	10	5	5	8
Non-Hispanic Black	17	12	12	17	11	21	12	13	19	12	14	11	19	9	11	9	9	8
Non-Hispanic Other	1	0	2	2	0	0	3	3	6	5	1	4	2	4	1	0	2	3
<b>Sussex</b>																		
All Races	11	13	11	13	16	8	10	11	3	7	10	8	13	5	7	7	3	2
Non-Hispanic White	4	7	5	9	8	3	2	8	2	1	3	4	8	2	3	3	1	2
Non-Hispanic Black	5	5	6	2	5	3	6	1	0	5	3	2	2	2	1	1	1	0
Non-Hispanic Other	0	1	0	1	0	0	2	1	0	0	0	0	0	0	0	1	0	0

Notes:

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

Sources: National Center for Health Statistics,  
Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

**TABLE E-3. NUMBER OF POSTNEONATAL DEATHS BY RACE, COUNTY, AND CITY OF WILMINGTON, U.S., DELAWARE 2003-2020**

Area/ Race	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>U.S.</b>																		
All Races	9,060	9,258	9,602	9,468	10,059	9,837	9,147	8,379	7,936	7,767	7553*	7,474	7,786	7,854	7,497	7,169	7,093	N/A
Non-Hispanic White	4,431	4,502	4,682	4,474	4,676	4,573	4,270	3,941	3,783	3,689	3647*	3,592	3,720	3,718	3,329	3,186	3,014	N/A
Non-Hispanic Black	2,501	2,586	2,626	2,716	2,867	2,735	2,603	2,363	2,233	2,174	2133*	2,074	2,276	2,222	2,240	2,037	2,067	N/A
Non-Hispanic Other	470	483	485	483	534	536	488	457	445	451	411*	404	464	455	478	679	641	N/A
<b>Delaware</b>																		
All Races	31	34	27	27	26	33	25	30	25	18	21	19	21	30	24	19	22	20
Non-Hispanic White	12	15	11	11	8	14	9	14	15	8	10	9	6	13	4	7	4	8
Non-Hispanic Black	13	16	14	11	10	14	13	10	3	9	8	9	7	12	15	10	15	10
Non-Hispanic Other	0	0	0	1	1	0	0	0	3	0	0	1	3	1	0	0	3	0
<b>Kent</b>																		
All Races	8	6	7	6	3	6	4	4	4	5	3	3	6	5	3	4	2	8
Non-Hispanic White	5	3	3	3	1	3	2	3	4	2	2	1	1	1	0	2	1	3
Non-Hispanic Black	3	3	4	2	1	2	2	1	0	2	1	2	3	3	2	2	1	5
Non-Hispanic Other	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0
<b>New Castle</b>																		
All Races	21	21	14	16	17	22	15	22	17	11	14	12	5	19	12	10	16	10
Non-Hispanic White	5	9	6	7	5	9	4	9	8	4	6	7	2	9	0	3	1	4
Non-Hispanic Black	10	9	7	7	7	9	10	7	2	7	5	4	0	7	10	6	12	5
Non-Hispanic Other	0	0	0	0	0	0	0	0	3	0	0	1	1	1	0	0	3	0
Wilmington																		
All Races	7	3	3	4	7	9	4	8	3	2	3	2	0	3	6	4	7	1
Non-Hispanic White	1	0	0	1	0	2	0	1	1	0	0	0	0	0	0	0	0	0
Non-Hispanic Black	3	2	3	3	5	4	4	4	2	2	3	2	0	3	5	4	5	1
Non-Hispanic 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	14	18	11	12	10	13	11	14	14	9	11	10	5	16	6	6	9	9
Non-Hispanic White	4	9	6	6	5	7	4	8	7	4	6	7	2	9	0	3	1	4
Non-Hispanic Black	7	7	4	4	2	5	6	3	0	5	2	2	0	4	5	2	7	4
Non-Hispanic Other	0	0	0	0	0	0	0	0	3	0	0	1	1	1	0	0	1	0
<b>Sussex</b>																		
All Races	2	7	6	5	6	5	6	4	4	2	4	4	10	6	9	5	4	2
Non-Hispanic White	2	3	2	1	2	2	3	2	3	2	2	1	3	3	4	2	2	1
Non-Hispanic Black	0	4	3	2	2	3	1	2	1	0	2	3	4	2	3	2	2	0
Non-Hispanic Other	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Notes:

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

Sources: National Center for Health Statistics  
 Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

**TABLE E- 4. FIVE-YEAR AVERAGE INFANT MORTALITY RATES BY RACE, COUNTY, AND CITY OF WILMINGTON, U.S., DELAWARE 2003-2020**

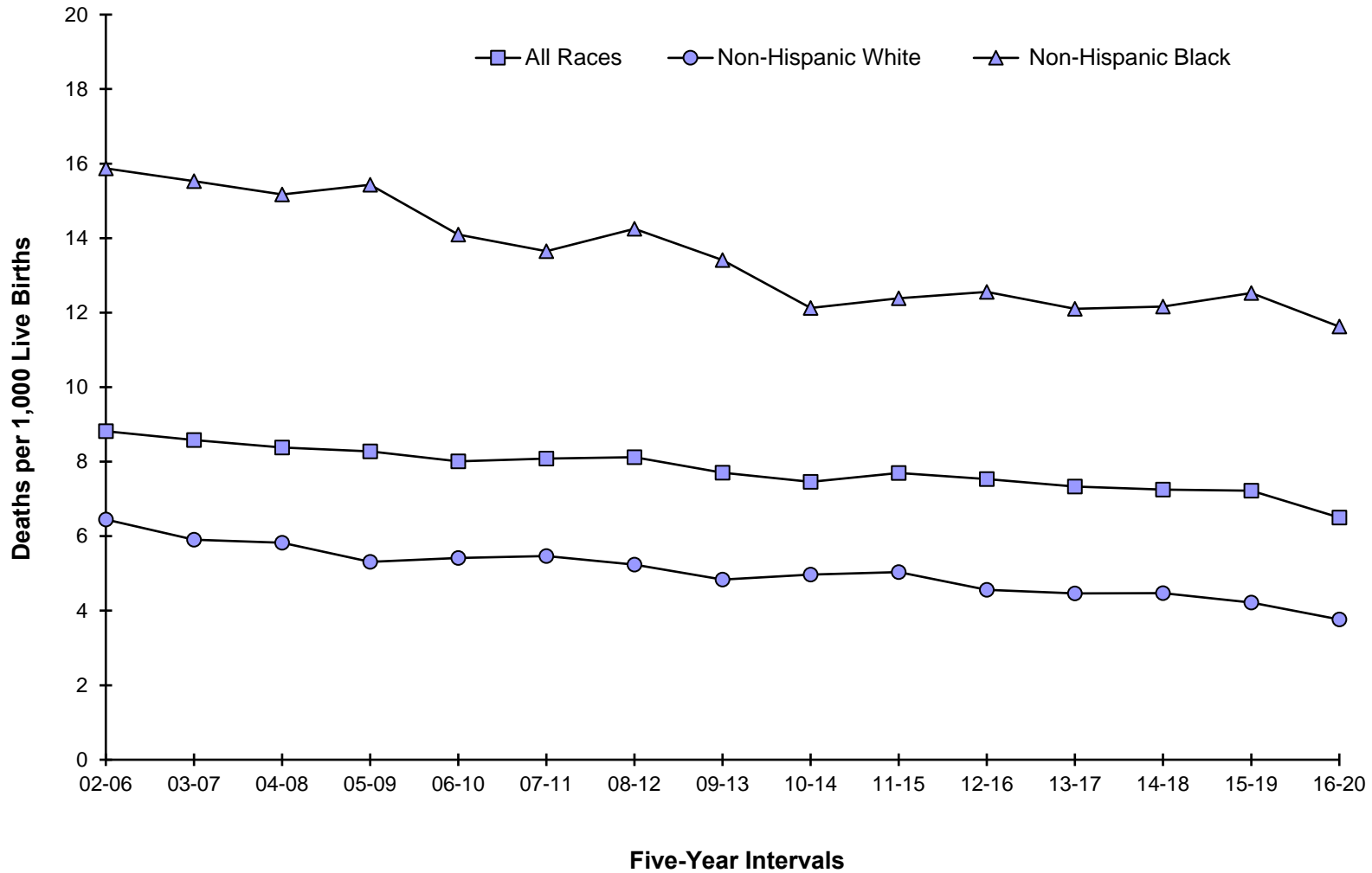
Area/ Race	2003 -2007	2004 -2008	2005 -2009	2006 -2010	2007 -2011	2008 -2012	2009 -2013	2010 -2014	2011 -2015	2012 -2016	2013 -2017	2014 -2018	2015 -2019	2016 -2020
<b>U.S.</b>														
All Races	6.8	6.7	6.7	6.5	6.4	6.2	6.1	6.0	5.9	5.9	5.9	5.8	5.8	N/A
Non-Hispanic White	5.7	5.6	5.6	5.4	5.3	5.2	5.1	5.0	5.0	5.0	4.9	4.8	4.7	N/A
Non-Hispanic Black	13.5	13.3	13.1	12.7	12.3	11.8	11.5	11.2	11.2	11.1	11.1	10.9	10.8	N/A
<b>Delaware</b>														
All Races	8.6+	8.4+	8.3+	8.0+	8.1+	8.1+	7.7+	7.5+	7.7+	7.5+	7.3+	7.3+	7.2+	6.5
Non-Hispanic White	5.9	5.8	5.3	5.4	5.5	5.2	4.8	5	5	4.6	4.5	4.5	4.2	3.8
Non-Hispanic Black	15.5	15.2	15.4+	14.1	13.6	14.3+	13.4	12.1	12.4	12.6	12.1	12.2	12.5	11.6
<b>Kent</b>														
All Races	7.1	7.1	7.1	6.5	6.9	7.6	6.6	6.2	6.9	6.5	5.8	6.4	6.9	6.5
Non-Hispanic White	4.8	4.6	4.3	5.0	5.5	5.6	5.5	5.8	5.4	4.2	3.6	3.6	3.3	---
Non-Hispanic Black	13.6	13.3	14.2	10.2	9.5	11.6	9.6	7.0	8.9	10.3	9.1	11.0	12.4	12.3
<b>New Castle</b>														
All Races	9.2	9.0	9.0	8.8	9.1	9.3	8.8	8.7	8.6	8.4	8.1	7.8	7.8	7.2
Non-Hispanic White	6.0	6.1	5.6	5.3	5.5	5.4	4.8	4.9	5.1	4.8	4.6	4.6	4.3	4.1
Non-Hispanic Black	16.1	15.6	15.9	15.6	15.5	15.9	15.3	14.3	13.8	13.3	13.2	12.8	13.1	12.3
Wilmington														
All Races	13.0	13.0	13.8	14.1	14.8	16.1	15.9	15.8	14.6	15.1	14.3	14.5	14.8	13.8
Non-Hispanic White	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Non-Hispanic Black	16.9	15.7	17.1	17.4	18.5	18.7	20.2	19.2	16.3	16.4	16.3	16.9	17.1	17.2
Balance of NC County														
All Races	8.5	8.2	8.0	7.7	7.9	7.9	7.5	7.3	7.5	7.1	7.0	6.6	6.5	6.1
Non-Hispanic White	6.2	6.1	5.7	5.5	5.6	5.4	4.8	4.7	4.9	4.6	4.6	4.4	4.2	4.0
Non-Hispanic Black	15.6	15.5	15.1	14.5	13.8	14.4	12.9	12.2	12.6	11.9	11.8	11.1	11.4	10.3
<b>Sussex</b>														
All Races	7.9	7.6	7.2	7.0	6.2	5.2	5.4	5.1	5.8	6.1	6.7	6.5	6.0	4.4
Non-Hispanic White	6.7	6.4	5.6	6.0	5.4	4.3	4.3	4.3	4.5	4.4	5.1	5.1	4.8	3.7
Non-Hispanic Black	15.4	15.8	15.0	12.4	11.0	10.4	10.0	---	11.0	12.5	11.9	11.0	10.1	---

Notes:

1. 2010-2014 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.  
'-' 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 Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

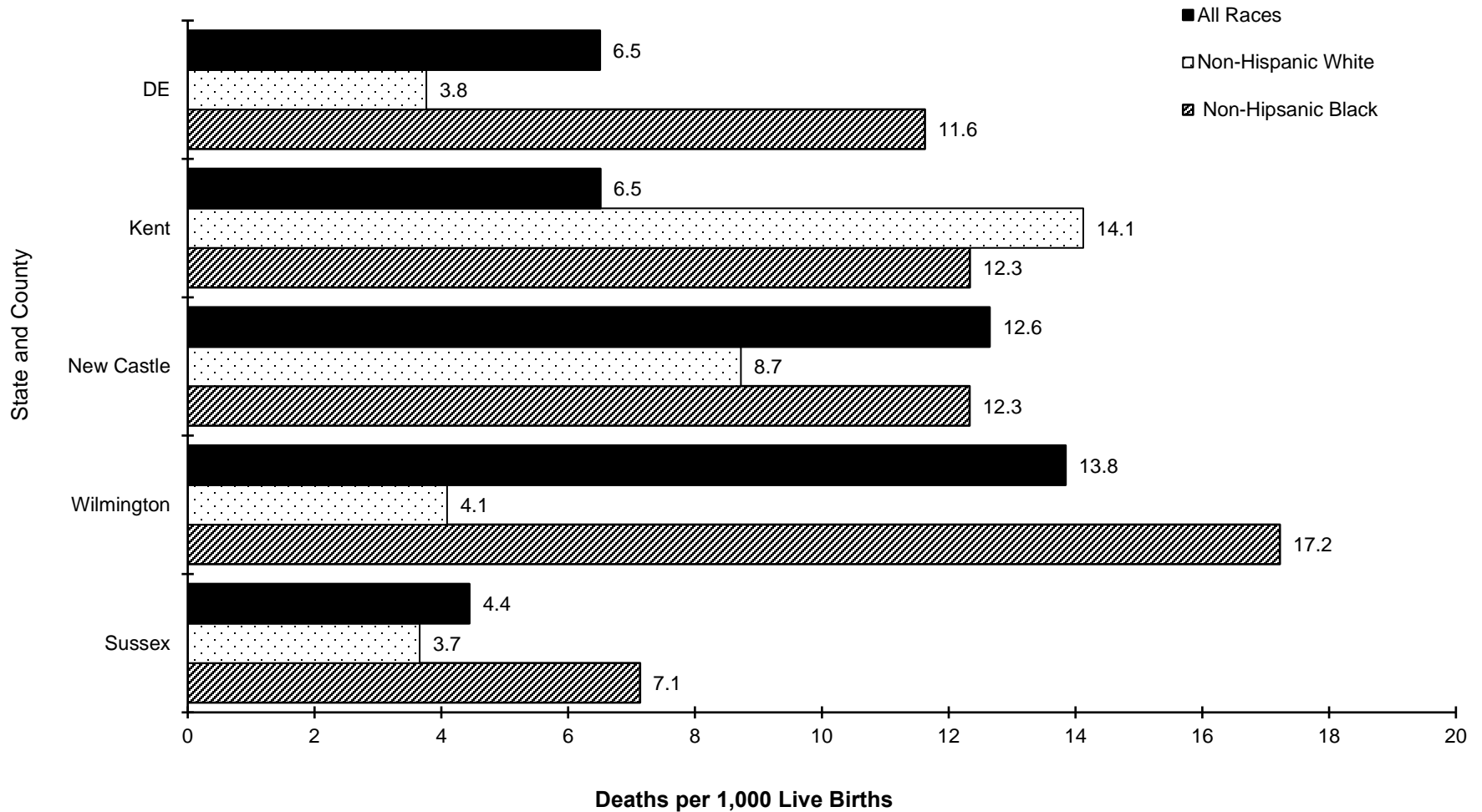
**Figure E-1. Five-Year Average Infant Mortality Rates by Race, Delaware, 2002-2020**



Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center



**Figure E-2. Five-Year Average Infant Mortality Rates Race, County, and City of Wilmington, Delaware, 2016-2020**



Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

**TABLE E-5. FIVE-YEAR AVERAGE NEONATAL MORTALITY RATES BY RACE, COUNTY, AND CITY OF WILMINGTON, U.S., DELAWARE 2003-2020**

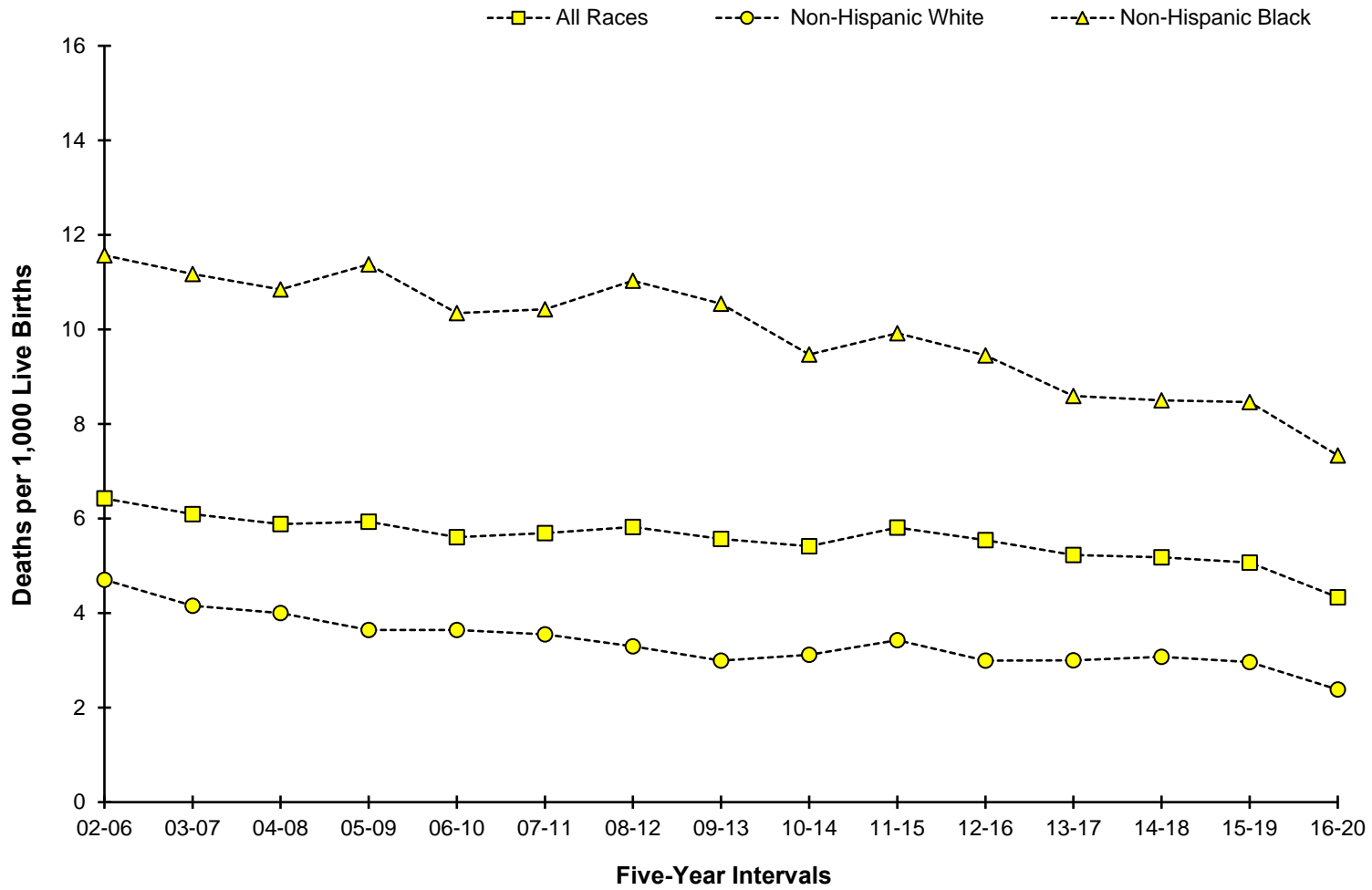
Area/ Race	2003 -2007	2004 -2008	2005 -2009	2006 -2010	2007 -2011	2008 -2012	2009 -2013	2010 -2014	2011 -2015	2012 -2016	2013 -2017	2014 -2018	2015 -2019	2016 -2020
<b>U.S.</b>														
All Races	4.5	4.4	4.4	4.3	4.2	4.1	4.1	4.0	4.0	4.0	3.9	3.9	3.8	N/A
Non-Hispanic White	3.7	3.6	3.6	3.5	3.4	3.4	3.3	3.3	3.3	3.2	3.2	3.1	3.0	N/A
Non-Hispanic Black	9.0	8.8	8.6	8.3	8.1	7.8	7.6	7.5	7.5	7.4	7.3	7.2	7.1	N/A
<b>Delaware</b>														
All Races	6.1+	5.9+	5.9+	5.6+	5.7+	5.8+	5.6+	5.4+	5.8+	5.5+	5.2+	5.2+	5.1+	4.3
Non-Hispanic White	4.2	4	3.6	3.6	3.5	3.3	3	3.1	3.4	3.0	3.0	3.1	3.0	2.4
Non-Hispanic Black	11.2+	10.8+	11.4+	10.3+	10.4+	11.0+	10.5+	9.5+	9.9+	9.5+	8.6	8.5	8.5	7.3
<b>Kent</b>														
All Races	4.3	4.6	4.7	4.4	5.0	5.6	4.8	4.4	5.0	4.6	4.0	4.5	5.1	4.5
Non-Hispanic White	---	---	---	3.3	3.6	3.6	3.5	4.0	3.9	3.2	---	---	---	---
Non-Hispanic Black	9.0	9.1	10.5	7.6	7.5	9.3	7.6	---	---	6.8	---	7.2	9.0	8.3
<b>New Castle</b>														
All Races	6.8	6.5	6.7	6.2	6.4	6.7	6.5	6.4	6.8	6.5	6.2	6.0	5.8	5.1
Non-Hispanic White	4.4	4.1	3.9	3.5	3.5	3.5	3.0	2.9	3.5	3.0	3.1	3.2	3.3	2.8
Non-Hispanic Black	12.0	11.7	11.9	11.7	12.1	12.4	12.1	11.7	11.9	10.9	10.4	9.9	9.3	8.0
<b>Wilmington</b>														
All Races	9.2	8.9	9.6	9.0	9.7	11.6	12.2	12.4	12.6	13.2	11.4	11.4	10.5	9.2
Non-Hispanic White	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Non-Hispanic Black	12.6	11.2	12.3	12.1	13.2	14.0	15.6	14.8	13.3	12.9	11.7	11.9	10.9	10.5
<b>Balance of NC County</b>														
All Races	6.3	6.0	6.0	5.6	5.8	5.8	5.3	5.3	5.7	5.3	5.2	5.0	5.0	4.4
Non-Hispanic White	4.5	4.3	4.1	3.7	3.7	3.5	2.9	2.6	3.2	2.7	2.9	2.9	3.1	2.7
Non-Hispanic Black	11.6	11.9	11.7	11.4	11.4	11.6	10.5	10.4	11.3	9.9	9.8	9.1	8.7	7.0
<b>Sussex</b>														
All Races	5.6	5.2	4.9	4.9	4.1	3.4	3.6	3.5	3.7	3.8	3.8	3.5	3.1	2.1
Non-Hispanic White	5.1	4.9	4.1	4.5	3.5	---	---	---	---	---	3.1	3.1	---	---
Non-Hispanic Black	10.4	9.5	10.0	---	---	---	---	---	---	---	---	---	---	---

*Notes:*

1. Neonatal mortality rates represent the number of deaths of children under 28 days of age per 1000 live births.
2. '+' indicates that the Delaware rate is significantly higher than the U.S. rate.
3. '---' Indicates rate does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.
4. 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 Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

**Figure E-3. Five-Year Average Neonatal Mortality Rates by Race, Delaware, 2002-2020**



Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

**TABLE E-6. FIVE-YEAR AVERAGE POSTNEONATAL MORTALITY RATES BY RACE, COUNTY, AND CITY OF WILMINGTON, U.S., DELAWARE, 2003-2020**

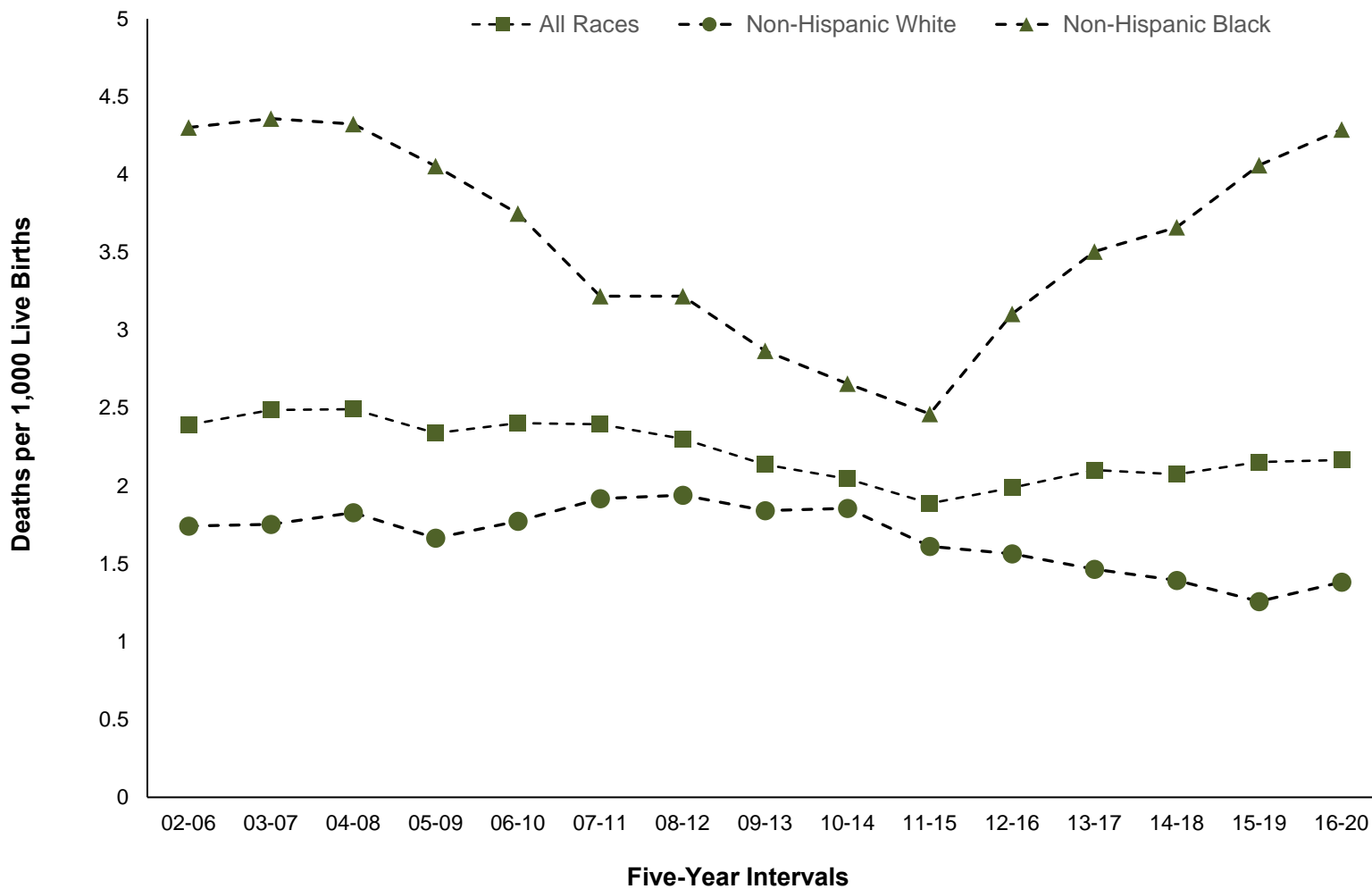
Area/ Race	2003 -2007	2004 -2008	2005 -2009	2006 -2010	2007 -2011	2008 -2012	2009 -2013	2010 -2014	2011 -2015	2012 -2016	2013 -2017	2014 -2018	2015 -2019	2016 -2020
<b>U.S.</b>														
All Races	2.3	2.3	2.3	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	N/A
Non-Hispanic White	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.7	1.7	1.7	1.7	1.7	1.7	N/A
Non-Hispanic Black	4.5	4.5	4.4	4.3	4.2	4.1	3.9	3.7	3.7	3.7	3.7	3.7	3.8	N/A
<b>Delaware</b>														
All Races	2.5	2.5	2.3	2.4	2.4	2.3	2.1	2	1.9	2	2.1	2.1	2.2	2.2
White Non-Hispanic	1.8	1.8	1.7	1.8	1.9	1.9	1.8	1.9	1.6	1.6	1.5	1.4	1.3	1.4
Black Non-Hispanic	4.4	4.3	4.1	3.7	3.2-	3.2	2.9-	2.7-	2.5-	3.1	3.5	3.7	4.1	4.3
<b>Kent</b>														
All Races	2.8	2.6	2.3	2.0	1.9	2.1	1.8	---	1.9	2.0	1.8	1.9	1.8	2.0
Non-Hispanic White	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Non-Hispanic Black	---	---	---	---	---	---	---	---	---	---	---	---	---	---
<b>New Castle</b>														
All Races	2.5	2.5	2.3	2.6	2.7	2.5	2.4	2.3	1.8	1.9	1.9	1.8	2.0	2.2
Non-Hispanic White	1.7	1.9	1.7	1.9	2.0	2.0	1.8	2.0	1.6	1.7	1.5	1.4	---	---
Non-Hispanic Black	4.1	3.9	3.9	3.9	3.4	3.5	3.1	2.6	---	2.4	2.8	2.9	3.8	4.3
Wilmington														
All Races	3.9	4.1	4.2	5.1	5.2	4.6	3.7	---	---	---	---	---	4.3	4.7
Non-Hispanic White	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Non-Hispanic Black	---	---	---	5.3	---	---	---	---	---	---	---	---	---	---
Balance of NC County														
All Races	2.2	2.1	1.9	2.1	2.1	2.1	2.1	2.1	1.8	1.9	1.8	1.6	1.6	1.7
Non-Hispanic White	1.7	1.9	1.6	1.8	1.9	1.9	1.8	2.1	1.7	1.9	1.7	1.5	---	---
Non-Hispanic Black	4.0	3.6	3.4	3.1	---	---	---	---	---	---	---	---	---	3.3
<b>Sussex</b>														
All Races	2.3	2.4	2.3	2.2	2.1	1.8	1.8	---	2.1	2.3	2.9	3.0	3.0	2.3
Non-Hispanic White	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Non-Hispanic Black	---	---	---	---	---	---	---	---	---	---	---	---	---	---

*Notes:*

1. 2015-2019 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 Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

**Figure E-4. Five-Year Average Postneonatal Mortality Rates by Race, Delaware, 2002-2020**



Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

**TABLE E-7. FIVE-YEAR AVERAGE INFANT MORTALITY RATES  
BY SELECTED RISK MARKERS AND RACE OF MOTHER,  
DELAWARE, 2015-2019 LIVE BIRTH COHORT**

Risk Factor	Non-Hispanic		
	All	White	Black
<b>Birth Weight of Child</b>			
<2500	54.2	37.5	66.7
<1500	234.7	201.3	254.3
1500-2499	11.1	---	---
2500+	1.9	2.0	2.5
<b>Age of Mother</b>			
<20	7.9	---	---
20-24	8.3	5.3	13.2
25-29	6.9	4.1	11.5
30+	5.9	4.2	10.6
<b>Marital Status of Mother</b>			
Married	4.7	3.4	8.9
Single	9.1	6.8	12.5
<b>Education of Mother</b>			
<12 years	8.3	8.4	10.8
H.S. diploma	9.9	7.0	15.5
1+ years college	4.6	3.3	8.0
<b>Interval Since Last Live Birth</b>			
<18 Months	12.4	--	--
18+ Months	5.1	3.8	8.8

*Notes:*

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

*Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center*

**TABLE E-8. LEADING CAUSES OF INFANT DEATH BY GESTATIONAL AGE CATEGORY, DELAWARE, 2015-2019 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	79	0	2	0	81	97.5	97.5
Congenital malformations, deformations, and chromosomal abnormalities	14	13	25	0	52	26.9	51.9
Newborn affected by maternal complications of pregnancy	35	3	1	0	39	89.7	97.4
Sudden infant death syndrome	1	2	12	0	15	6.7	20.0
Accidents (unintentional injuries)	0	2	11	0	13	0.0	15.4
Newborn affected by complications of placenta, cord, and membranes	11	0	0	0	11	100.0	100.0
Respiratory distress of newborn	11	0	0	0	11	100.0	100.0
Bacterial sepsis of newborn	8	1	1	0	10	80.0	90.0
Necrotizing enterocolitis of newborn	5	1	1	0	7	71.4	85.7
Diarrhea and gastroenteritis of infectious origin	6	0	0	0	6	100.0	100.0
Septicemia	5	0	1	0	6	83.3	83.3
Diseases of the circulatory system	0	2	4	0	6	0.0	33.3
Intrauterine hypoxia and birth asphyxia	3	1	0	0	4	75.0	100.0
Neonatal hemorrhage	2	2	0	0	4	50.0	100.0
Volume depletion, disorders of fluid, electrolyte and acid-base balance	2	0	1	0	3	66.7	66.7
Anoxic brain damage, not elsewhere classified	0	0	3	0	3	0.0	0.0
Atelectasis	3	0	0	0	3	100.0	100.0
Hematological disorders	2	0	1	0	3	66.7	66.7
Assault (homicide)	0	1	2	0	3	0.0	33.3
Diseases of the blood and blood-forming organs and certain disorders involving the immune system	1	0	1	0	2	50.0	50.0
All other causes	35	12	34	0	81	43.2	58.0
<b>TOTAL</b>	<b>223</b>	<b>40</b>	<b>100</b>	<b>0</b>	<b>363</b>	<b>61.4</b>	<b>72.5</b>

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 Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

**TABLE E-9. FIVE-YEAR AVERAGE INFANT MORTALITY RATES BY RACE AND SELECTED RISK MARKERS, DELAWARE LIVE BIRTH COHORT, 2003-2019**

Parameter/ Race	2003 -2007	2004 -2008	2005 -2009	2006 -2010	2007 -2011	2008 -2012	2009 -2013	2010 -2014	2011 -2015	2012 -2016	2013 -2017	2014 -2018	2015 -2019
<b>BIRTHWEIGHT</b>													
<b>2500+</b>													
All Races	2.3	2.0	1.9	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.0	2.0	1.9
Non-Hispanic White	1.8	1.6	1.6	2.0	2.3	2.4	2.5	2.4	2.2	2.0	1.8	1.9	2.0
Non-Hispanic Black	3.4	2.9	2.7	2.6	2.2	2.5	2.5	2.5	2.6	2.6	2.9	2.9	2.5
<b>&lt;2500</b>													
All Races	68.8	69.2	70.6	65.5	67.1	68.2	64.6	61.7	64.6	62.2	58.2	57.7	54.2
Non-Hispanic White	58.4	59.8	55.5	54.5	52.3	51.1	46.9	47.1	49.4	48.1	44.2	43.6	37.5
Non-Hispanic Black	82.6	84.2	90.1	82.1	86.5	88.9	83.3	76.3	79.6	74.7	71.0	69.0	66.7
<b>&lt;1500</b>													
All Races	285.8	286.8	279.3	260.8	264.7	267.6	258.6	253.1	267.7	263.8	247.2	246.5	234.7
Non-Hispanic White	270.5	268.1	240.6	228.6	222.5	215.2	203.9	209.0	228.3	221.4	218.0	229.6	201.3
Non-Hispanic Black	285.7	290.9	298.0	283.3	295.2	308.6	296.5	277.2	289.4	290.9	268.1	257.8	254.3
<b>GESTATION</b>													
<b>37+ weeks</b>													
All Races	2.3	2.0	2.0	2.4	2.6	2.6	2.5	2.6	2.5	2.2	2.2	2.3	2.1
Non-Hispanic White	1.9	1.8	1.7	2.3	2.7	2.7	2.7	2.8	2.3	2.0	1.7	1.8	1.8
Non-Hispanic Black	3.4	2.8	2.6	2.7	2.6	2.7	2.7	2.9	3.1	3.0	3.4	3.6	3.2
<b>&lt;37 weeks</b>													
All Races	47.1	47.0	47.3	43.6	44.3	45.5	44.0	41.5	44.8	43.3	40.4	39.9	38.3
Non-Hispanic White	36.8	36.8	35.0	34.2	33.0	32.3	31.2	28.9	32.8	33.0	30.4	30.1	27.5
Non-Hispanic Black	67.3	68.5	71.5	64.4	66.8	69.6	65.6	60.1	63.0	58.5	55.6	54.2	52.8
<b>&lt;32 weeks</b>													
All Races	220.4	220.4	216.9	195.0	195.7	198.7	190.8	178.9	189.6	186.9	177.0	174.0	172.1
Non-Hispanic White	192.6	191.1	178.3	160.1	154.9	146.2	137.7	130.1	144.2	144.6	141.8	144.0	133.3
Non-Hispanic Black	245.6	254.0	258.1	236.5	241.2	249.6	235.5	216.0	226.1	225.0	212.5	205.3	205.6
<b>PLURALITY</b>													
<b>Single</b>													
All Races	7.2	7.0	7.0	7.0	7.0	6.9	6.7	6.3	6.4	6.1	5.9	6.0	5.9
Non-Hispanic White	5.2	5.1	4.7	5.3	5.4	5.2	5.1	4.8	4.6	4.4	4.0	4.1	4.0
Non-Hispanic Black	12.8	12.2	12.6	11.8	11.7	11.8	11.5	10.6	10.9	10.4	10.6	10.4	10.0
<b>Plural</b>													
All Races	44.0	40.3	41.0	32.6	34.2	35.0	34.5	36.1	42.6	43.4	37.7	38.0	33.3
Non-Hispanic White	30.2	26.5	26.2	21.0	20.8	22.0	22.2	27.0	33.3	35.2	31.0	29.1	23.3
Non-Hispanic Black	64.4	68.6	70.4	54.9	54.9	56.6	46.6	40.5	47.5	50.4	43.0	50.5	49.1
<b>SMOKING DURING PREGNANCY</b>													
<b>No</b>													
All Races	7.7	7.4	7.6	7.4	7.4	7.4	7.2	6.7	6.9	6.6	6.4	6.4	6.2
Non-Hispanic White	5.3	5.1	4.9	5.5	5.4	5.5	5.3	4.9	4.7	4.5	4.0	4.0	4.0
Non-Hispanic Black	13.5	13.2	13.8	12.8	13.0	13.3	12.5	11.6	12.0	11.2	11.1	11.0	10.4
<b>Yes</b>													
All Races	13.9	13.3	12.1	10.7	10.8	10.0	9.7	10.7	11.5	12.1	11.9	13.4	12.3
Non-Hispanic White	10.8	10.8	8.7	8.2	8.5	7.3	6.9	8.8	10.0	10.4	10.0	10.7	8.6
Non-Hispanic Black	24.2	21.6	21.9	17.8	16.1	16.2	16.0	14.4	15.0	17.6	18.3	20.0	22.0



**TABLE E-9. FIVE-YEAR AVERAGE INFANT MORTALITY RATES BY RACE AND SELECTED RISK MARKERS, DELAWARE LIVE BIRTH COHORT, 2003-2019 (continued)**

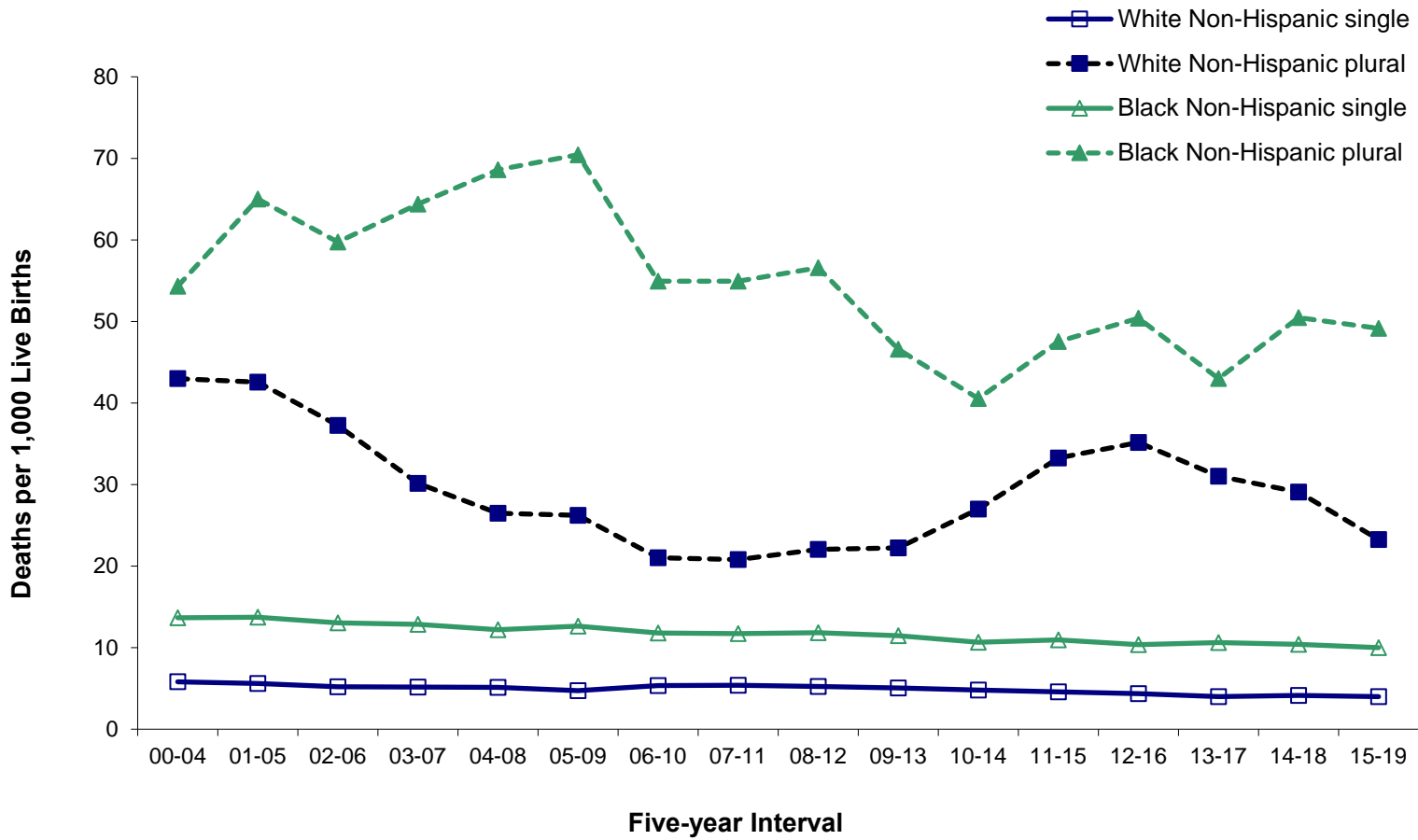
Parameter/ Race	2003 -2007	2004 -2008	2005 -2009	2006 -2010	2007 -2011	2008 -2012	2009 -2013	2010 -2014	2011 -2015	2012 -2016	2013 -2017	2014 -2018	2015 -2019
<b>EDUCATION</b>													
<b>HS Grad or less</b>													
All Races	10.8	10.1	10.0	10.0	10.0	9.5	9.5	8.8	9.3	8.9	9.2	9.3	9.4
Non-Hispanic White	8.8	8.5	8.1	8.6	8.3	7.8	7.7	7.2	7.8	7.5	7.3	7.3	7.4
Non-Hispanic Black	16.4	15.3	15.4	14.8	15.0	15.3	15.1	13.7	14.2	13.3	13.9	13.6	14.2
<b>1+ yrs college</b>													
All Races	5.4	5.6	5.9	5.6	5.8	6.2	5.7	5.7	5.9	5.7	5.1	5.2	4.6
Non-Hispanic White	4.0	4.0	3.8	4.1	4.5	4.7	4.4	4.5	4.3	4.1	3.6	3.7	3.3
Non-Hispanic Black	11.1	11.5	13.1	11.2	10.8	11.0	9.7	9.2	9.6	9.5	9.1	9.4	8.0
<b>PRENATAL CARE ATTAINMENT</b>													
<b>Medicaid</b>													
All Races	10.4	10.2	9.9	9.5	9.3	8.8	8.5	8.2	8.7	8.7	8.2	8.5	8.1
Non-Hispanic White	8.9	9.2	8.2	8.4	7.3	7.1	6.7	6.8	7.1	7.6	6.8	7.1	6.5
Non-Hispanic Black	14.5	14.1	14.0	12.9	13.5	13.5	13.0	12.2	12.6	11.8	11.2	11.3	11.0
<b>Private Insurance</b>													
All Races	6.7	6.4	6.6	6.4	6.4	6.6	6.4	6.2	6.2	5.9	5.8	5.6	5.4
Non-Hispanic White	4.7	4.5	4.3	4.6	5.1	4.9	4.9	4.6	4.5	4.0	3.8	3.7	3.5
Non-Hispanic Black	15.5	14.9	16.3	14.8	13.4	13.9	12.6	11.3	12.2	12.0	13.0	12.6	11.6

*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.

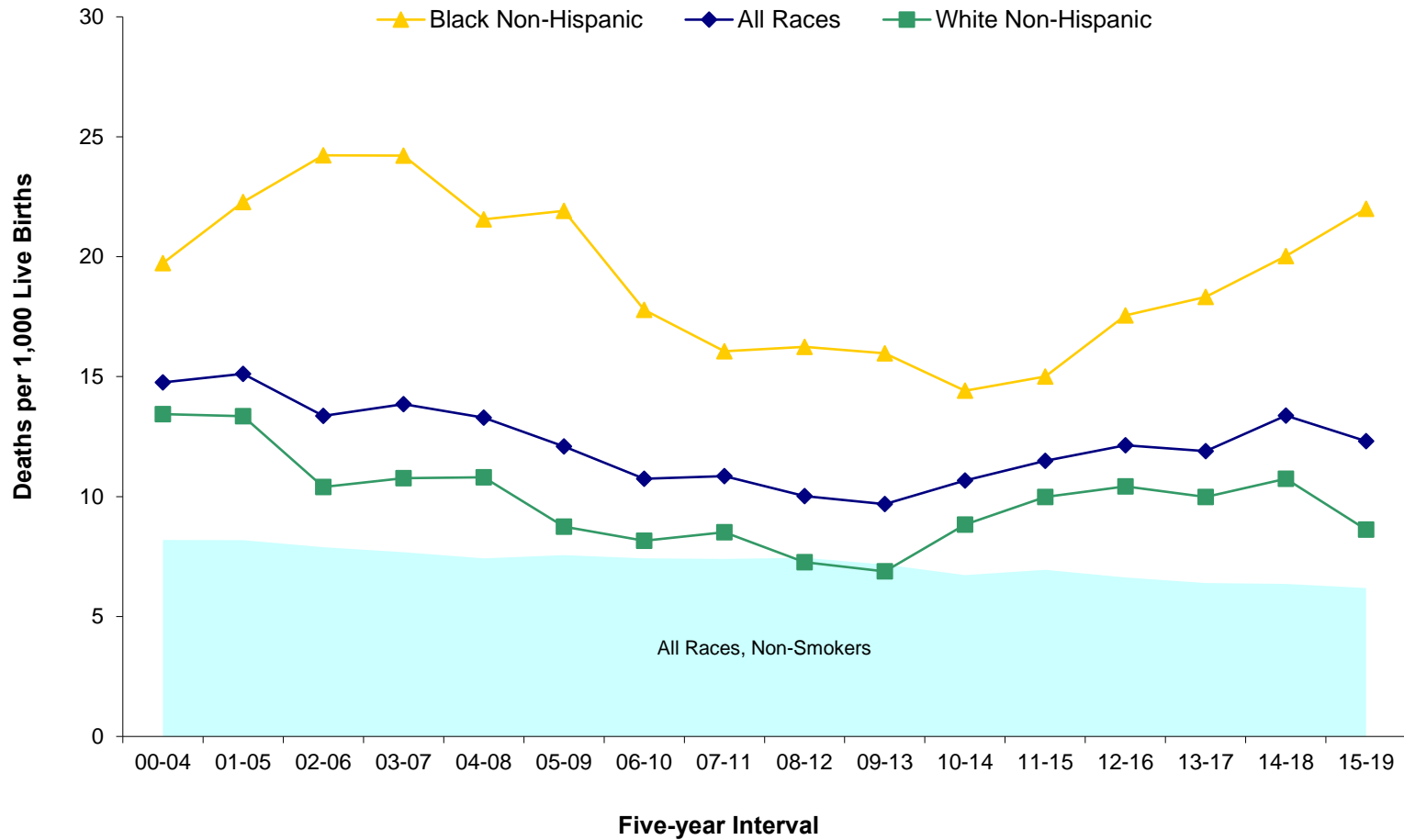
Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

**Figure E-5. Five-year Average Infant Mortality Rates by Race and Plurality, Delaware, 2000-2019 Live Birth Cohort**



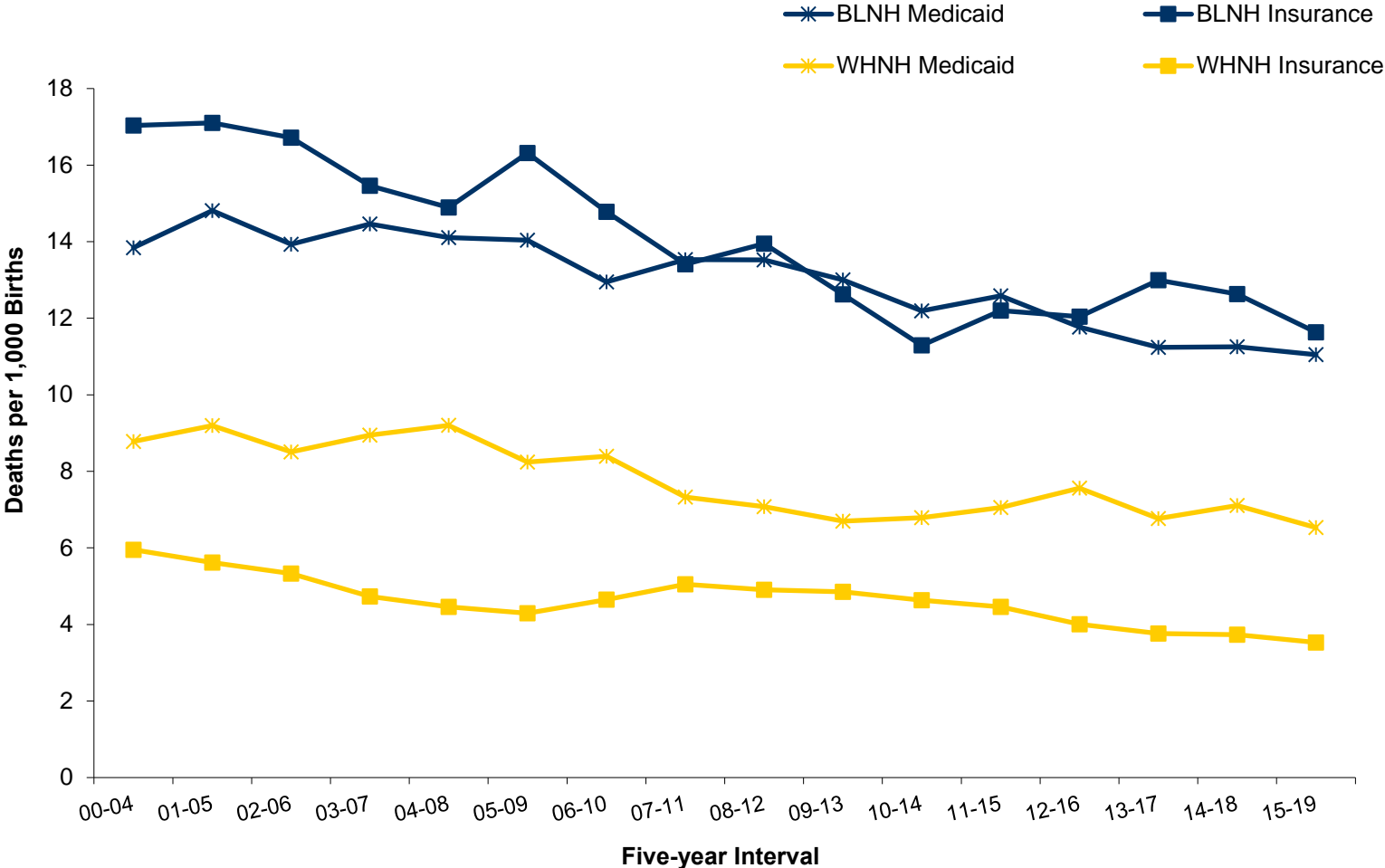
Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

**Figure E-6. Five-year Average Infant Mortality Rates by Race of Mothers who Smoked during Pregnancy versus all Non-smoking Mothers, Delaware, 2000-2019 Live Birth Cohort**



Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

**Figure E-7. Five-year Average Infant Mortality Rates by Race and Source of Payment for Delivery, Delaware, 2000-2019 Live Birth Cohort**



Source: Delaware Department of Health and Social Services, Division of Public Health, 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, 2015-2019, LIVE BIRTH COHORT**

Plurality/ Birth Weight	Race and Sex											
	All Races			Non-Hispanic White			Non-Hispanic Black			Non-Hispanic		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
<b>All Births</b>	363	185	178	124	58	66	166	85	81	19	12	7
<2500	267	132	135	74	35	39	133	66	67	16	9	7
<1500	223	114	109	62	29	33	118	59	59	12	8	4
<500	116	56	60	29	12	17	70	34	36	7	4	3
500-999	91	54	37	28	16	12	39	23	16	4	3	1
1000-1499	16	4	12	5	1	4	9	2	7	1	1	0
1500-1999	17	5	12	3	1	2	5	2	3	2	0	2
2000-2499	27	13	14	9	5	4	10	5	5	2	1	1
2500+	94	52	42	50	23	27	31	18	13	3	3	0
2500-2999	34	21	13	18	8	10	9	6	3	3	3	0
3000-3499	33	16	17	16	6	10	13	8	5	0	0	0
3500-3999	17	8	9	9	4	5	6	2	4	0	0	0
4000-4499	8	6	2	6	4	2	2	2	0	0	0	0
4500+	2	1	1	1	1	0	1	0	1	0	0	0
Unknown	2	1	1	0	0	0	2	1	1	0	0	0
<b>Single Births</b>	306	161	145	105	48	57	140	75	65	19	12	7
<2500	214	110	104	55	25	30	110	57	53	16	9	7
<1500	175	94	81	44	20	24	96	51	45	12	8	4
<500	93	46	47	20	8	12	58	29	29	7	4	3
500-999	68	44	24	19	11	8	31	20	11	4	3	1
1000-1499	14	4	10	5	1	4	7	2	5	1	1	0
1500-1999	13	4	9	3	1	2	4	1	3	2	0	2
2000-2499	26	12	14	8	4	4	10	5	5	2	1	1
2500+	91	51	40	50	23	27	29	18	11	3	3	0
2500-2999	31	20	11	18	8	10	7	6	1	3	3	0
3000-3499	33	16	17	16	6	10	13	8	5	0	0	0
3500-3999	17	8	9	9	4	5	6	2	4	0	0	0
4000-4499	8	6	2	6	4	2	2	2	0	0	0	0
4500+	2	1	1	1	1	0	1	0	1	0	0	0
Unknown	1	0	1	0	0	0	1	0	1	0	0	0
<b>Plural Births</b>	57	24	33	19	10	9	26	10	16	0	0	0
<2500	53	22	31	19	10	9	23	9	14	0	0	0
<1500	48	20	28	18	9	9	22	8	14	0	0	0
<500	23	10	13	9	4	5	12	5	7	0	0	0
500-999	23	10	13	9	5	4	8	3	5	0	0	0
1000-1499	2	0	2	0	0	0	2	0	2	0	0	0
1500-1999	4	1	3	0	0	0	1	1	0	0	0	0
2000-2499	1	1	0	1	1	0	0	0	0	0	0	0
2500+	4	2	2	0	0	0	2	0	2	0	0	0
2500-2999	3	1	2	0	0	0	2	0	2	0	0	0
3000-3499	0	0	0	0	0	0	0	0	0	0	0	0
3500-3999	0	0	0	0	0	0	0	0	0	0	0	0
4000-4499	0	0	0	0	0	0	0	0	0	0	0	0
4500+	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	1	1	0	0	0	0	1	1	0	0	0	0

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

Source: Delaware Department of Health and Social Services, Division of Public Health, 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, 2015-2019 LIVE BIRTH COHORT**

Plurality/ Birth Weight	Race and Sex											
	All Races			Non-Hispanic White			Non-Hispanic Black			Non-Hispanic Other		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
<b>All Births</b>	258	137	121	84	41	43	117	61	56	15	11	4
<2500	224	115	109	67	32	35	107	55	52	12	8	4
<1500	201	105	96	59	28	31	101	52	49	11	7	4
<500	116	56	60	29	12	17	70	34	36	7	4	3
500-999	74	47	27	25	15	10	26	18	8	3	2	1
1000-1499	11	2	9	5	1	4	5	0	5	1	1	0
1500-1999	7	1	6	0	0	0	3	1	2	0	0	0
2000-2499	16	9	7	8	4	4	3	2	1	1	1	0
2500+	28	17	11	17	9	8	8	5	3	3	3	0
2500-2999	14	10	4	9	5	4	1	1	0	3	3	0
3000-3499	14	8	6	6	2	4	6	4	2	0	0	0
3500-3999	3	2	1	1	1	0	1	0	1	0	0	0
4000-4499	0	0	0	0	0	0	0	0	0	0	0	0
4500+	1	1	0	1	1	0	0	0	0	0	0	0
Unknown	2	1	1	0	0	0	2	1	1	0	0	0
<b>Single Births</b>	211	116	95	66	31	35	99	53	46	15	11	4
<2500	178	95	83	49	22	27	90	48	42	12	8	4
<1500	159	86	73	42	19	23	84	45	39	11	7	4
<500	93	46	47	20	8	12	58	29	29	7	4	3
500-999	56	38	18	17	10	7	22	16	6	3	2	1
1000-1499	10	2	8	5	1	4	4	0	4	1	1	0
1500-1999	4	1	3	0	0	0	3	1	2	0	0	0
2000-2499	15	8	7	7	3	4	3	2	1	1	1	0
2500+	32	21	11	17	9	8	8	5	3	3	3	0
2500-2999	14	10	4	9	5	4	1	1	0	3	3	0
3000-3499	14	8	6	6	2	4	6	4	2	0	0	0
3500-3999	3	2	1	1	1	0	1	0	1	0	0	0
4000-4499	0	0	0	0	0	0	0	0	0	0	0	0
4500+	1	1	0	1	1	0	0	0	0	0	0	0
Unknown	1	0	1	0	0	0	1	0	1	0	0	0
<b>Plural Births</b>	47	21	26	18	10	8	18	8	10	0	0	0
<2500	46	20	26	18	10	8	17	7	10	0	0	0
<1500	42	19	23	17	9	8	17	7	10	0	0	0
<500	23	10	13	9	4	5	12	5	7	0	0	0
500-999	18	9	9	8	5	3	4	2	2	0	0	0
1000-1499	1	0	1	0	0	0	1	0	1	0	0	0
1500-1999	3	0	3	0	0	0	0	0	0	0	0	0
2000-2499	1	1	0	1	1	0	0	0	0	0	0	0
2500+	0	0	0	0	0	0	0	0	0	0	0	0
2500-2999	0	0	0	0	0	0	0	0	0	0	0	0
3000-3499	0	0	0	0	0	0	0	0	0	0	0	0
3500-3999	0	0	0	0	0	0	0	0	0	0	0	0
4000-4499	0	0	0	0	0	0	0	0	0	0	0	0
4500+	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	1	1	0	0	0	0	1	1	0	0	0	0

Note:

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

Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center