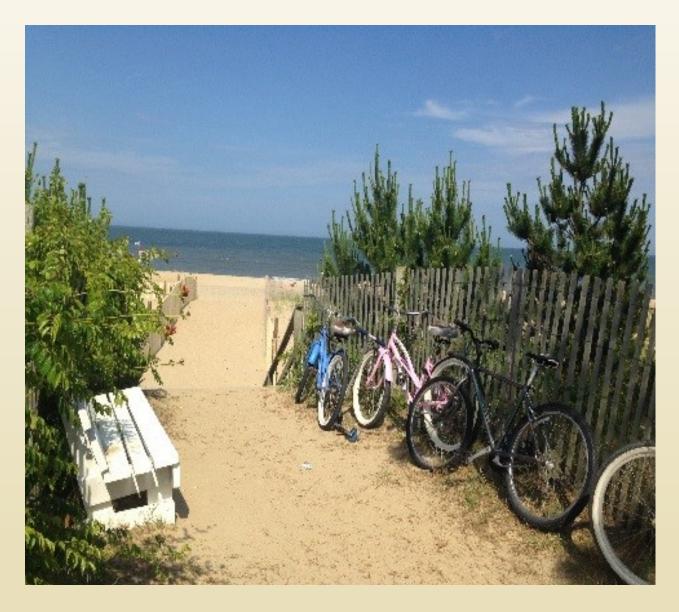
DELAWARE VITAL STATISTICS ANNUAL REPORT INFANT MORTALITY, 2017



Suggested Citation:

Delaware Health Statistics Center. *Delaware Vital Statistics Annual Report,* 2017. Delaware Department of Health and Social Services, Division of Public Health: 2019. In 2013-2017, Delaware's infant mortality rate (IMR) was 7.3 infant deaths per 1,000 live births, resulting in a total decline of 21.5 percent from the 2000-2004 rate of 9.3 infant deaths per 1,000 live births.

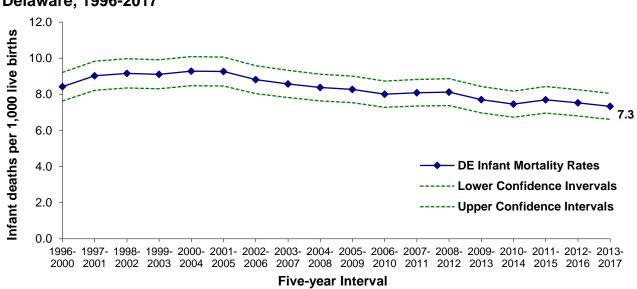


Figure 27. Five-year Average Infant Mortality Rates with Confidence Intervals, Delaware, 1996-2017

Wilmington's IMR continued to be the highest in Delaware. 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 Kent and Sussex counties at 8.1 infant deaths per 1,000 live births. In 2013-2017 Kent County's IMR remained the lowest at 5.8 infant deaths per 1,000 live births. During the same time period the balance of New Castle County's IMR was 7.0 infant deaths per 1,000 live births; Wilmington's IMR was 14.3 infant deaths per 1,000 live births; Wilmington's IMR was 14.3 infant deaths per 1,000 live births; Wilmington's IMR was 14.3 infant deaths per 1,000 live births; P

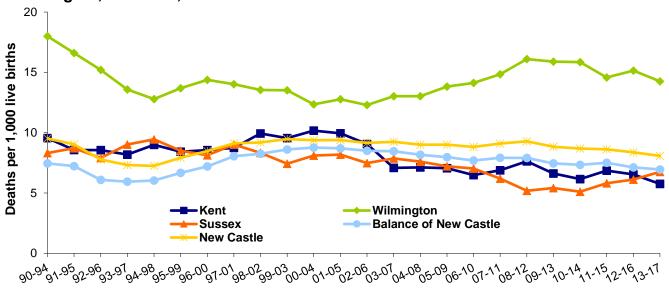


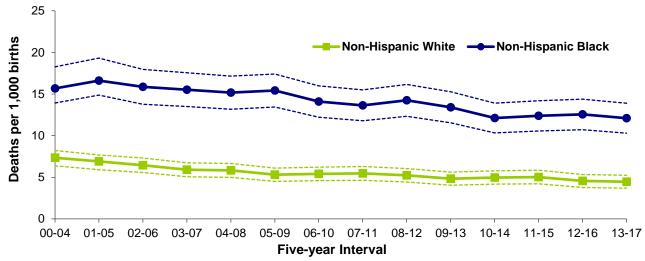
Figure 28. Five-year Average Infant Mortality Rates, Delaware Counties and City of Wilmington, Delaware, 1990-2017

Five-year intervals

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

Non-Hispanic black infants experienced a lower percentage of decrease in mortality rates than non-Hispanic white infants. In 2013-2017 the non-Hispanic black IMR of 12.1 infant deaths per 1,000 live births was a 23 percent decrease from the 15.7 rate in 2000-2004. Non-Hispanic white IMR decreased 38 percent from 7.3 in 2000-2004 to 4.5 infant deaths per 1,000 live births in 2013-2017.





Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center Note: Dashes represent upper or lower confidence intervals

Significant disparities existed between non-Hispanic black and non-Hispanic white infant mortality rates. The non-Hispanic black rate in 2013-2017 was nearly three times that of the non-Hispanic white rate but only 1.2 times higher than the Hispanic rate of 9.4 infant deaths per 1,000 live births. Non-Hispanic black IMRs were highest in all three time periods depicted below with the highest rate of 15.3 infant deaths per 1,000 live births in 2003-2007. Hispanic IMRs were two times higher than the non-Hispanic white IMRs in 2013-2017. From 2003-2007 to 2013-2017 the Hispanic IMR increased 15 percent (8.2 to 9.4 infant deaths per 1,000 live births).

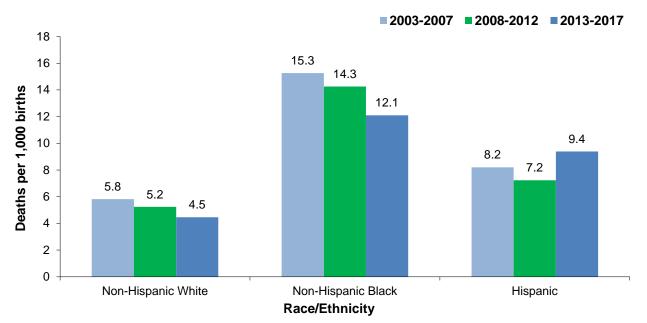
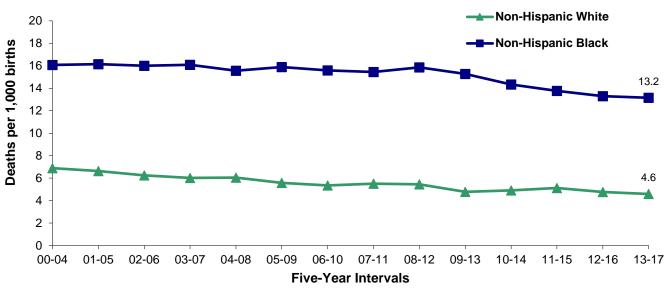


Figure 30. Five-year Average Infant Mortality Rates by Race and Hispanic Origin, Delaware 2003-2017

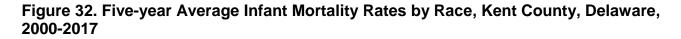
Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

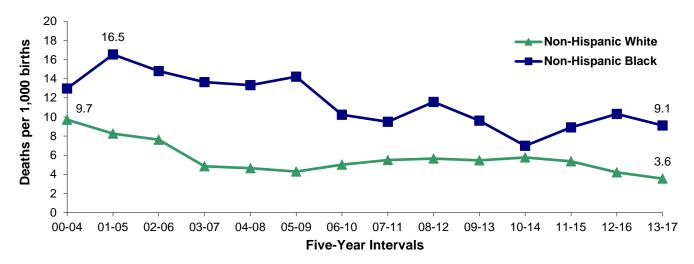
In 2013-2017, New Castle County had the highest IMRs and Kent County had the lowest. Non-Hispanic black IMRs in New Castle County were stable at16 infant deaths per 1,000 live births from 2000 to 2014, and decreased the last five time periods to 13.2 infant deaths per 1,000 live births.





Non-Hispanic black IMRs in Kent County peaked at 16.5 infant deaths per 1,000 live births in 2001-2005. The IMR decreased 45 percent to 9.1 infant death per 1,000 live births in 2013-2017. The non-Hispanic white IMR had a 63 percent decrease from its peak in 2000-2004 to 2013-2017 (9.7 to 3.6 infant deaths per 1,000 live births.

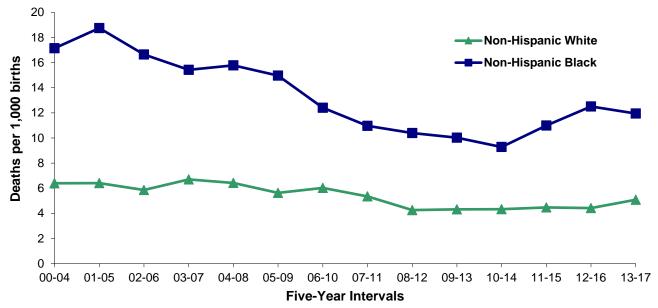




Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

Sussex County's non-Hispanic black IMR decreased to 11.9 infant deaths per1,000 live births in 2013-2017, a 37 percent reduction from the 2001-2005 peak of 19 infant deaths per 1,000 live births. Sussex County's non-Hispanic white IMR had a 24 percent decrease from its peak in 2003-2007 to 2013-2017 (6.7 to 5.1 infant deaths per 1,000 live births).





In 2013-2017 there were 401 infant deaths. The five leading causes of infant death in Delaware were:

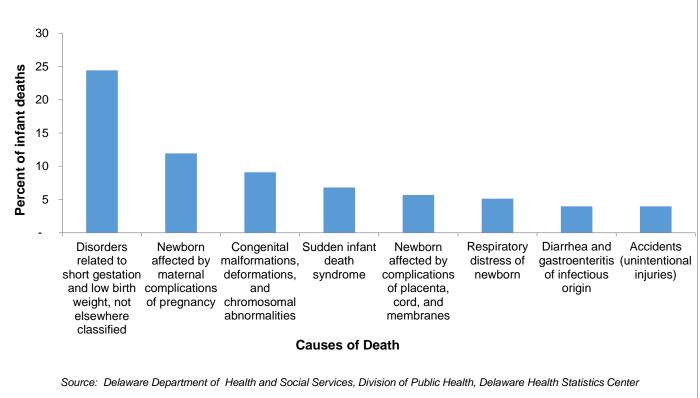
- Disorders related to short gestation and and low birthweight, which accounted for 20.7 percent of infant deaths.
- Newborns affected by maternal complications of pregnancy, which accounted for 13.2 percent of infant deaths. Of the 53 deaths attributed to this cause, 46 were due to the newborn being affected by incompetent cervix and premature rupture of membranes
- o Congenital anomalies (birth defects), which accounted for 12.7 percent of infant deaths.
- o Sudden infant death syndrome (SIDS), which accounted for 6.0 percent of all infant deaths.
- o Respiratory distress of newborn, which accounted for 4.5 percent of infant deaths.

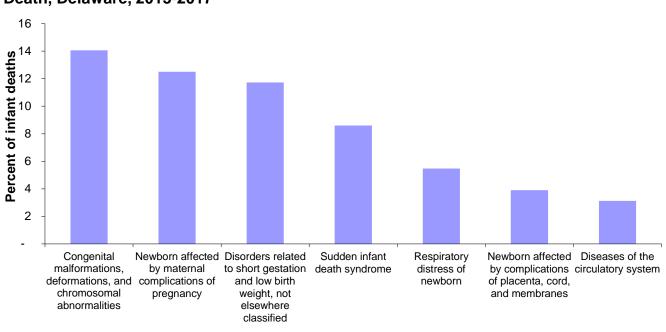
In sum, the five most common causes of infant death accounted for 57 percent, or 229 of the 401 total infant deaths.

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 both listed in the top three most frequent causes of death for both non-Hispanic black and non-Hispanic white infants.

Though the proportions of deaths by race were similar for many of the causes of death, notable exceptions were birth defects and disorders due to prematurity and low birthweight. In 2013-2017, while birth defects were responsible for 14 percent of all non-Hispanic white infant deaths, they accounted for only 9 percent of non-Hispanic black infant deaths. Conversely in 2013-2017, infant deaths due to disorders related to prematurity and low birthweight accounted for larger percentages of non-Hispanic black infant deaths (24 percent) than non-Hispanic white infant deaths (12 percent).

Figure 34. Percentage of the Most Frequent Causes of Non-Hispanic Black Infant Death, Delaware, 2013-2017







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 nearly quadrupled. In the most recent five-year period, 2013-2017, 14.2 percent of all live births were to Hispanic mothers, and 18.2 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.

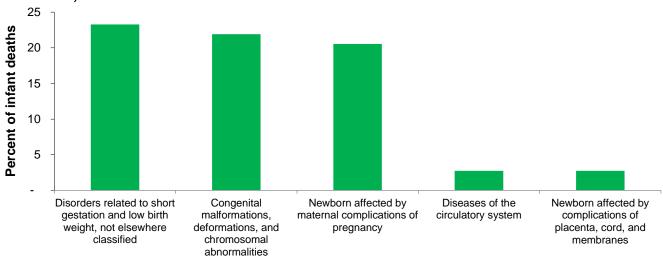


Figure 36. Percentage of the Most Frequent Causes of Hispanic Infant Death, Delaware, 2013-2017

Causes of Death

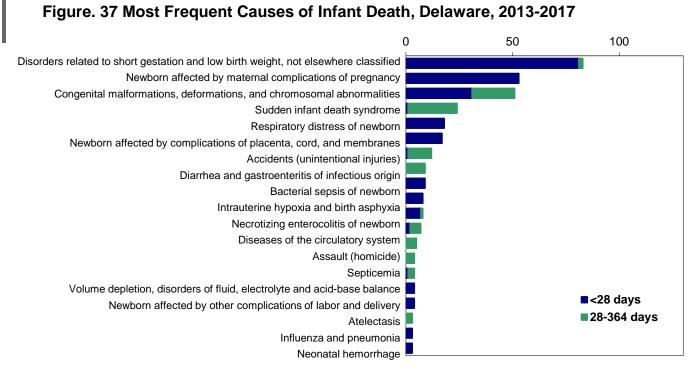
Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

Causes of Death

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

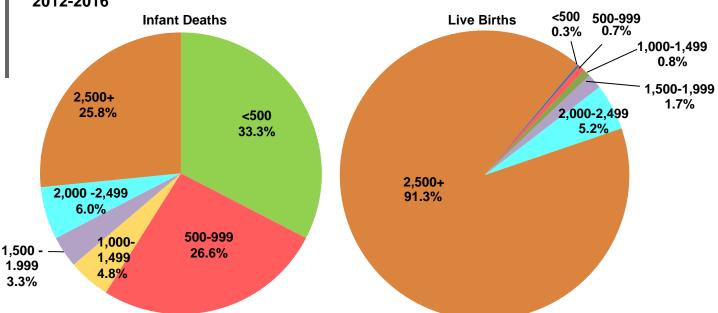
In 2013-2017, approximately 95 percent of all infant deaths occurred within the first six months of life, 72 percent occurred within the first 28 days of life, and 42 percent occurred within 24 hours of birth.

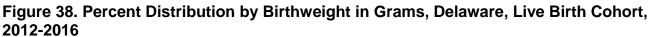
Figure 37 displays deaths by specific cause and the infant's age classification at death: neonatal (<28 days), or postneonatal (28-364 days).



- Prematurity and low birthweight accounted for the greatest number of infant deaths in 2013-2017; 98 percent 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 109 days. SIDS deaths decreased 53 percent from 2008-2012 to 2013-2017 (51 to 24 SIDSdeaths). The number of infant deaths in 2013-2017 was 13 percent less than the number of infant deaths in 2008-2012.
- Fifty-four percent (13 out of 24) of the SIDS deaths were associated with co-sleeping and/or sleeping on soft surfaces, such as couches and adult beds.
- In 2013-2017, there were 20 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 percent of all infant deaths were associated with co-sleeping and/or unsafe sleep practices.

Although only 1 percent of all live births in 2012-2016 were infants weighing less than 1000 grams, they accounted for over half (60 percent) of all infant deaths. In total, 8.7 percent of all live births in 2012-2016 were infants of low birthweight (under 2,500 grams) and 74 percent of infant deaths were low birthweight.





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 2012-2016 were less than 28 weeks gestation at birth, but they accounted for 59.4 percent of all infant deaths. In total, 12.3 percent of all live births in 2012-2016 were born preterm (<37 weeks of gestation) and 73 percent of infant deaths were preterm.

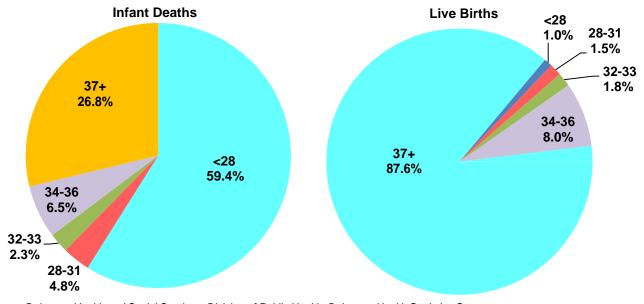


Figure 39. Distribution by Gestation in Weeks, Delaware, Live Birth Cohort, 2012-2016

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center Delaware Department of Health and Social Services 141 Delaware Vital Statistics Annual Report, 2017

Division of Public Health, Delaware Health Statistics Center

July 2019

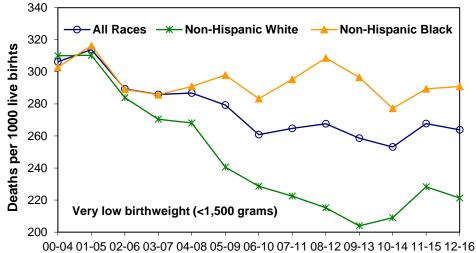
Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

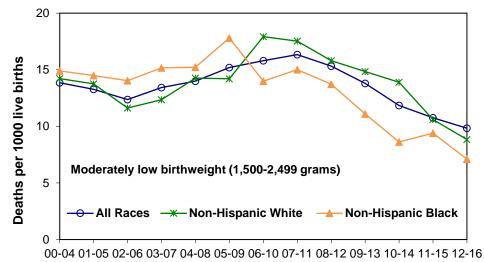
Birthweight and gestation are considered to be the most important predictors of infant health and mortality risk. Infants born too small or too early have a much greater risk of mortality than those who reach a normal birthweight (2,500+ grams) or full-term gestation (37+ weeks).

Although the IMRs decreased for both non-Hispanic white and non-Hispanic black very low birthweight (VLBW) (<1,500 grams) since 2001-2005, the non-Hispanic black IMR of 290.9 was significantly higher than the white IMR of 221.4 infant deaths per 1,000 live births in 2012-2016.

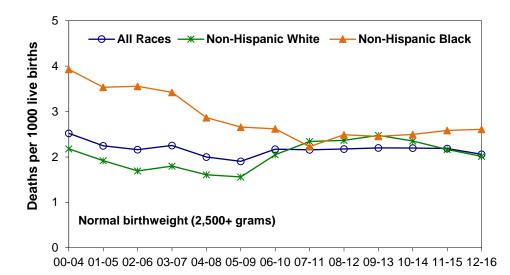
IMRs for moderately low birthweight infants of all races decreased 40 percent from its high point in 2007-2011 to 2012-2016. During that time, non-Hispanic white IMRs decreased 50 percent while the non-Hispanic black IMR decreased by 53 percent, making the non-Hispanic black IMR lower than the non-Hispanic white IMR (7.1 vs 8.8).

The IMR for all races and normal birthweight decreased nine percent from 2007-2011 to 2012-2016 (2.2 to 2.0). IMRs for normal birthweight non-Hispanic white infants decreased 13 percent from 2007-2011 to 2012-2016 (2.3 to 2.0 infant deaths per 1,000 live births), while the IMRs for non-Hispanic black infants increased 18 percent (2.2 to 2.6 infant deaths per 1,000 live births. Figure 40. Five-year Average Infant Mortality Rates by Birthweight and Race, Delaware, 2000-2016 Live Birth Cohort





Five-year Intervals

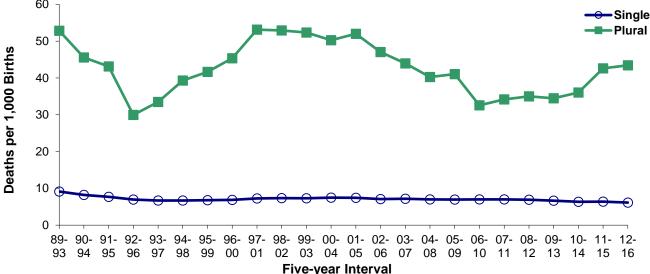


Five-year Intervals

The divergent movement in non-Hispanic black and white rates in 2012-2016 increased the disparity ratio. During that time period, the non-Hispanic black IMR for normal birthweight infants was 2.6, versus 2.0 infant deaths per 1,000 live births for non-Hispanic white infants of normal birthweight.

From 2001-2005 to 2006-2010, IMRs for plural births decreased 37 percent, from 52 to 33 infant deaths per 1000 live births. Since then, IMRs for plural births increased 33 percent. IMRs for singleton births decreased 13 percent from 2001-2005 to 2012-2016. In 2012-2016, the infant mortality rate for plural births was seven times that of singleton births (43.4 versus 6.1 infant deaths per 1,000 live births, respectively).

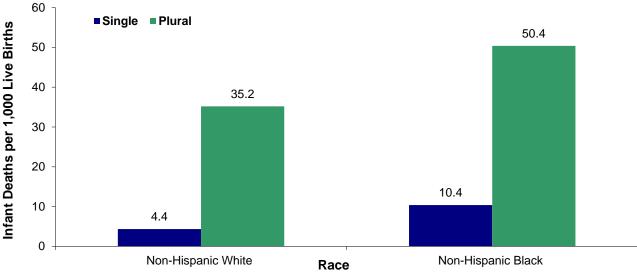




Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center

The disparity 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 1.4 times greater for plural births.





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Area/ Race	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
U.S. All Races Non-Hispanic White Non-Hispanic Black Non-Hispanic Other	27,960 13,461 8,212 1,243	27,523 13,300 7,938	27,970 13,327 8,031 1,289	27,995 13,228 7,836 1,331	27,860 13,001 7,869 1,334	28,384 13,134 7,958	28,509 12,884 8,241 1,368	29,153 13,005 8,351	28,075 12,509 7,894 1,452	26,408 11,785 7,560 1,397	24,572 11,192 6,758 1,324	24,001 10,886 6,670 1,338	23,654 10,759 6,528 1,363	23,446 10,766 6,488 1,280	23,211 10,515 6,435	23,458 10,444 6,624	23,157 10,204 6,545 1,380	N/A N/A N/A N/A
Delaware All Races Non-Hispanic White Non-Hispanic Black Non-Hispanic Other	102 54 36 0		96 52 35 3	107 41 49 1	97 43 44 2	106 36 53 3	99 39 44 4	33	101 37 49 0	91 24 52 7	88 38 35 4	98 39 38 10	84 24 43 6	68 22 33 1	74 27 29 6	100 38 38 6	23	72 18 37 3
Kent All Races Non-Hispanic White Non-Hispanic Black Non-Hispanic Other	21 15 4 0	8	27 22 5 0	16 8 7 0	17 8 8 1	21 6 14 1	13 7 5 1		18 7 7 0	18 6 12 0	15 11 3 0	17 10 3 1	17 5 10 0	6 5 1 0	13 8 4 0	23 8 9 1	14 2 8 1	8 0 7 0
New Castle All Races Non-Hispanic White Non-Hispanic Black Non-Hispanic Other	67 32 27 0	72 32 33 0	55 26 22 3	78 27 37 1	60 25 27 0	68 23 30 2	68 22 35 2	19 27	70 25 36 0	57 13 33 5	58 17 29 3	74 24 34 9	58 16 28 6	48 12 27 1	49 14 20 6	54 19 23 4	62 16 27 7	48 11 26 3
Wilmington All Races Non-Hispanic White Non-Hispanic Black Non-Hispanic Other	16 2 12 0	17 1 14 0	12 1 10 0	18 1 13 0	12 1 8 0	18 1 14 0	16 1 14 0	1 14	19 2 10 0	18 0 15 2	18 1 13 0	17 2 15 0	20 4 11 1	14 0 11 0	14 3 7 1	10 2 4 1		15 1 10 2
Balance of NC County All Races Non-Hispanic White Non-Hispanic Black Non-Hispanic Other	51 30 15 0	19	43 25 12 3	60 26 24 1	48 24 19 0	50 22 16 2	52 21 21 2	18 13	51 23 26 0	39 13 18 3	40 16 16 3	57 22 19 9	38 12 17 5	34 12 16 1	35 11 13 5	44 17 19 3	44 16 13 5	33 10 16 1
Sussex All Races Non-Hispanic White Non-Hispanic Black Non-Hispanic Other	14 7 5 0	23 13 9 1	14 4 8 0	13 6 5 0	20 10 9 1	17 7 9 0	18 10 4 1		13 5 6 0	16 5 7 2	15 10 3 1	7 5 1 0	9 3 5 0	14 5 5 0	12 5 5 0	23 11 6 1	11 5 4 0	16 7 4 0

TABLE E-1. NUMBER OF INFANT DEATHS BY RACE BY COUNTY, AND CITY OF WILMINGTON, U.S., DELAWARE, 2000-2017

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

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Area/ Race	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
U.S. All Races Non-Hispanic WI Non-Hispanic Bla Non-Hispanic Ot	18,733 8,924 5,552 812	18,275 8,817 5,293 754	18,791 8,853 5,399 856	18,935 8,797 5,335 861	18,602 8,499 5,283 851	18,782 8,452 5,332 895	19,041 8,410 5,525 885	19,094 8,329 5,484 982	18,238 7,936 5,159 916	17,261 7,515 4,957 909	16,193 7,251 4,395 867	16,065 7,103 4,437 893	15,887 7,070 4,354 912	15,893 7,119 4,355 869	15,737 6,923 4,361 869	15,672 6,724 4,348 937	15,303 6,486 4,323 925	N/A N/A N/A N/A
Delaware All Races Non-Hispanic WI Non-Hispanic Bla Non-Hispanic Otl	71 38 25 0	82 41 35 1	78 44 28 2	76 29 36 1	63 28 28 2	79 25 39 3	72 28 33 3	65 25 28 0	68 23 35 0	66 15 39 7	58 24 25 4	73 24 35 7	66 16 34 6	47 12 25 1	55 18 20 5	79 32 31 3	57 10 27 7	48 14 22 3
Kent All Races Non-Hispanic WI Non-Hispanic Bla Non-Hispanic Otl	15 10 3 0	15 10 4 0	22 18 4 0	8 3 4 0	11 5 5 1	14 3 10 1	7 4 3 0	6 3 3 0	12 4 5 0	14 4 10 0	11 8 2 0	13 6 3 1	12 3 8 0	3 3 0 0	10 7 2 0	17 7 6 0	9 1 5 1	5 0 5 0
New Castle All Races Non-Hispanic WI Non-Hispanic Bla Non-Hispanic Otl	50 24 21 0	54 24 26 0	46 22 19 2	57 22 27 1	39 16 18 0	54 17 23 2	52 15 28 2	43 14 20 0	48 16 27 0	42 9 23 5	36 8 22 3	57 16 32 6	47 12 21 6	34 6 22 1	37 7 16 5	49 17 23 3	43 7 20 6	36 11 16 3
Wilmington All Races Non-Hispanic Wi Non-Hispanic Bla Non-Hispanic Ot	13 2 9 0	14 1 12 0	9 1 8 0	11 0 10 0	9 1 6 0	15 1 11 0	12 0 11 0	10 1 9 0	10 0 6 0	14 0 11 2	10 0 9 0	14 1 13 0	18 4 9 1	11 0 8 0	12 3 5 1	10 2 4 1	15 0 11 2	9 1 5 2
Balance of NC County All Races Non-Hispanic WI Non-Hispanic Bla Non-Hispanic Ott	37 22 12 0	40 23 14 0	37 21 11 2	46 22 17 1	30 15 12 0	39 16 12 2	40 15 17 2	33 13 11 0	38 16 21 0	28 9 12 3	26 8 13 3	43 15 19 6	29 8 12 5	23 6 14 1	25 4 11 4	39 15 19 2	28 7 9 4	27 10 11 1
Sussex All Races Non-Hispanic Wi Non-Hispanic Bla Non-Hispanic Ot	6 4 1 0	13 7 5 1	10 4 5 0	11 4 5 0	13 7 5 1	11 5 6 0	13 9 2 1	16 8 5 0	8 3 3 0	10 2 6 2	11 8 1 1	3 2 0 0	7 1 5 0	10 3 3 0	8 4 2 0	13 8 2 0	5 2 2 0	7 3 1 0

TABLE E-2. NUMBER OF NEONATAL DEATHS BY RACE, COUNTY, AND CITY OF WILMINGTON, U.S., DELAWARE 2000-2017

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,

						<u> </u>						, e e e i,						
Area/ Race	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Nace	2000	2001	2002	2003	2004	2005	2000	2007	2000	2009	2010	2011	2012	2013	2014	2013	2010	2017
U.S.																		
All Races	9,227	9,248	9,179	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	N/A
Non-Hispanic White	4,537	4,483	4,474	4,431	4,502	4,682	4,474	4,676	4,573	4,270	3,941	3,783		3647*	3,592	3,720	3,718	
Non-Hispanic Black	2,660	2,645	2,632	2,501	2,586	2,626	2,716	2,867	2,735	2,603		2,233		2133*	2,074	2,276		N/A
Non-Hispanic Other	431	520	433	470	483	485	483	534	536	488	457	445	451	411*	404	464	455	N/A
Delaware																		
All Races	31	32	18	31	34	27	27	26	33	25	30	25	18	21	19	21	30	24
Non-Hispanic White	16	14	8	12	15	11	11	8	14	9	14	15	8	10	9	6	13	4
Non-Hispanic Black	11	15	7	13	16	14	11	10	14	13	10	3	9	8	9	7	12	15
Non-Hispanic Other	0	0	1	0	0	0	1	1	0	0	0	3	0	0	1	3	1	0
Kent																		
All Races	6	4	5	8	6	7	6	3	6	4	4	4	5	3	3	6	5	3
Non-Hispanic White	5	0	4	5	3	3	3	1	3	2	3	4	2	2	1	1	1	0
Non-Hispanic Black	1	4	1	3	3	4	2	1	2	2	1	0	2	1	2	3	3	2
Non-Hispanic Other	0	0	0	0	0	0	- 1	1	0	0	0	0	0	0	0	1	0	0
New Castle																		
All Races	17	18	9	21	21	14	16	17	22	15	22	17	11	14	12	5	19	12
Non-Hispanic White	8	8	4	5	9	6	7	5	9	4	9	8	4	6	7	2	9	0
Non-Hispanic Black	6	7	3	10	9	7	7	7	9	10	7	2	7	5	4	0	7	10
Non-Hispanic Other	0	0	1	0	0	0	0	0	0	0	0	3	0	0	1	1	1	0
Wilmington																		
All Races	3	3	3	7	3	3	4	7	9	4	8	3	2	3	2	0	3	6
Non-Hispanic White	0	0	0	, 1	0	0	1	0	2	0	1	1	0	0	0	0	0	0
Non-Hispanic Black	3	2	2	3	2	ů 3	3	5	4	4	4	2	2	3	2	0	3	5
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	15	6	14	18	11	12	10	13	11	14	14	9	11	10	F	16	e
Non-Hispanic White	14 8	15	6 4	14 4	9	6	6	5	7	4	14 8	14 7	9 4	6	10 7	5 2	9	6 0
Non-Hispanic Black	о З	о 5	4	4	9 7	4	4	2	5	4	о З	0	4 5	2	2	2	9	5
Non-Hispanic Other	0	0	1	0	0	4	4	2	0	0	0	3	0	2	2 1	1	4	0
	Ū	0		Ŭ	Ū	0	U	0	0	0	Ū	5	0	0		1		0
Sussex																		
All Races	8	10	4	2	7	6	5	6	5	6	4	4	2	4	4	10	6	9
Non-Hispanic White	3	6	0	2	3	2	1	2	2	3	2	3	2	2	1	3	3	4
Non-Hispanic Black	4	4	3	0	4	3	2	2	3	1	2	1	0	2	3	4	2	3
Non-Hispanic Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

TABLE E-3. NUMBER OF POSTNEONATAL DEATHS BY RACE, COUNTY, AND CITY OF WILMINGTON, U.S., DELAWARE 2000-2017

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 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 2000-2017**

Area/	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Race	-2004	-2005	-2006	-2007	-2008	-2009	-2010	-2011	-2012	-2013	-2014	-2015	-2016	-2017
U.S.														
0.5. All Races	6.9	6.9	6.8	6.0	6.7	6.7	6.5	6.4	6.2	6.1	6.0	5.9	5.9	N/A
Non-Hispanic White	6.9 5.3	6.9 5.7	6.8 5.7	6.8 5.7	6.7 5.6	6.7 5.6	6.5 5.4	6.4 5.3	6.2 5.2	6.1 5.1	6.0 5.0	5.9 5.0	5.9 5.0	N/A N/A
	5.3 13.5	5.7 13.6	5.7 13.6	5.7 13.5	5.6 13.3	5.6 13.1	5.4 12.7	5.3 12.3	5.2 11.8	5.1 11.5	5.0 11.2	5.0 11.2	5.0 11.1	N/A N/A
Non-Hispanic Black	13.5	13.0	13.0	13.5	13.3	13.1	12.7	12.3	11.0	C.11	11.2	11.2	11.1	N/A
Delaware														
All Races	9.3+	9.3+	8.8+	8.6+	8.4+	8.3+	8.0+	8.1+	8.1+	7.7+	7.5+	7.7+	7.5+	7.3
Non-Hispanic White	7.3+	6.9+	6.4	5.9	5.8	5.3	5.4	5.5	5.2	4.8	5.0	5.0	4.6	4.5
Non-Hispanic Black	15.7	16.6+	15.9+	15.5	15.2	15.4+	14.1	13.6	14.3+	13.4	12.1	12.4	12.6	12.1
Kent														
All Races	10.2	10.0	9.1	7.1	7.1	7.1	6.5	6.9	7.6	6.6	6.2	6.9	6.5	5.8
Non-Hispanic White	9.7	8.2	7.6	4.8	4.6	4.3	5.0	5.5	5.6	5.5	5.8	5.4	4.2	3.6
Non-Hispanic Black	13.0	16.5	14.8	13.6	13.3	14.2	10.2	9.5	11.6	9.6	7.0	8.9	10.3	9.1
New Castle														
All Races	9.4	9.4	9.2	9.2	9.0	9.0	8.8	9.1	9.3	8.8	8.7	8.6	8.4	8.1
Non-Hispanic White	9.4 6.9	9.4 6.6	9.2 6.2	9.2 6.0	9.0 6.1	9.0 5.6	5.3	9.1 5.5	9.3 5.4	4.8	4.9	5.0 5.1	4.8	4.6
Non-Hispanic Black	6.9 16.1	0.0 16.2	6.2 16.0	6.0 16.1	15.6	5.6 15.9	5.3 15.6	5.5 15.5	5.4 15.9	4.8 15.3	4.9 14.3	5.1 13.8	4.8 13.3	4.6 13.2
поп-пізрапіс віаск	10.1	10.2	10.0	10.1	15.0	15.9	15.0	15.5	15.9	15.5	14.3	13.0	13.3	13.2
Wilmington														
All Races	12.4	12.8	12.3	13.0	13.0	13.8	14.1	14.8	16.1	15.9	15.8	14.6	15.1	14.3
Non-Hispanic White														
Non-Hispanic Black	15.4	16.2	15.9	16.9	15.7	17.1	17.4	18.5	18.7	20.2	19.2	16.3	16.4	16.3
Balance of														
NC County														
All Races	8.8	8.7	8.5	8.5	8.2	8.0	7.7	7.9	7.9	7.5	7.3	7.5	7.1	7.0
Non-Hispanic White	7.0	6.8	6.4	6.2	6.1	5.7	5.5	5.6	5.4	4.8	4.7	4.9	4.6	4.6
Non-Hispanic Black	16.5	16.1	16.0	15.6	15.5	15.1	14.5	13.8	14.4	12.9	12.2	12.6	11.9	11.8
Sussex														
All Races	8.1	8.2	7.5	7.9	7.6	7.2	7.0	6.2	5.2	5.4	5.1	5.8	6.1	6.7
Non-Hispanic White	6.4	6.4	5.9	6.7	7.0 6.4	7.2 5.6	7.0 6.0	5.4	4.3	4.3	4.3	5.8 4.5	4.4	5.1
Non-Hispanic Black	17.1	18.8	16.7	15.4	0.4 15.8	5.0 15.0	0.0 12.4	11.0	4.3	4.3	4.5	4.5	4.4 12.5	11.9
NOT IISPATIC BIACK	17.1	10.0	10.7	10.4	10.0	15.0	12.4	11.0	10.4	10.0		11.0	12.0	11.9

Notes:

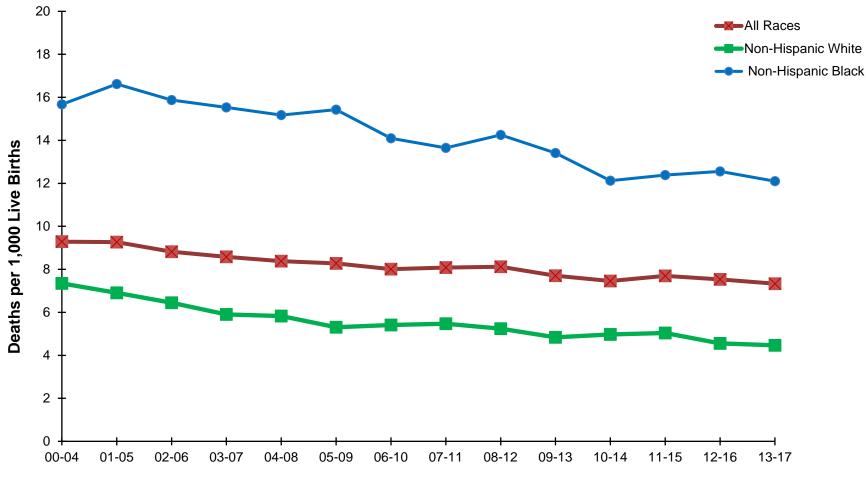
1. 2013-2017 U.S. data are based on NCHS estimates.

2. Infant mortality rates represent the number of deaths of children under one year of age per 1000 live births.

'+' indicates that the Delaware rate is significantly lower than the U.S. rate.
'-' 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.

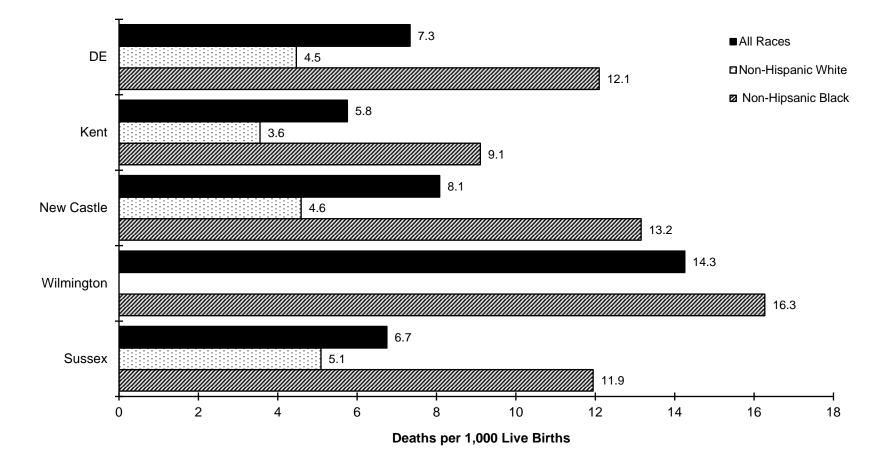
Sources: National Center for Health Statistics,





Five-Year Intervals

Figure E-2. Five-Year Average Infant Mortality Rates by Race, Delaware, Counties and the City of Wilmington, 2013-2017



	0-2017													
Area/	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Race	-2004	-2005	-2006	-2007	-2008	-2009	-2010	-2011	-2012	-2013	-2014	-2015	-2016	-2017
U.S.														
All Races	4.6	4.6	4.6	4.5	4.4	4.4	4.3	4.2	4.1	4.1	4.0	4.0	4.0	N/A
Non-Hispanic White	3.5	3.8	3.7	3.7	3.6	3.6	3.5	3.4	3.4	3.3	3.3	3.3	3.2	N/A
Non-Hispanic Black	9.1	9.2	9.2	9.0	8.8	8.6	8.3	8.1	7.8	7.6	7.5	7.5	7.4	N/A
Delaware														
All Races	6.7+	6.7+	6.4+	6.1+	5.9+	5.9+	5.6+	5.7+	5.8+	5.6+	5.4+	5.8+	5.5+	5.2
Non-Hispanic White	5.4+	5.1+	4.7+	4.2	4.0	3.6	3.6	3.5	3.3	3.0	3.1	3.4	3.0	3
Non-Hispanic Black	11.1+	11.9+	11.6+	11.2+	10.8+	11.4+	10.3+	10.4+	11.0+	10.5+	9.5+	9.9+	9.5+	8.6
Kent														
All Races	7.2	7.0	6.0	4.3	4.6	4.7	4.4	5.0	5.6	4.8	4.4	5.0	4.6	4.0
Non-Hispanic White	7.1	6.0	4.9				3.3	3.6	3.6	3.5	4.0	3.9	3.2	
Non-Hispanic Black	8.1	10.6	9.9	9.0	9.1	10.5	7.6	7.5	9.3	7.6			6.8	
New Castle														
All Races	7.0	7.1	6.9	6.8	6.5	6.7	6.2	6.4	6.7	6.5	6.4	6.8	6.5	6.2
Non-Hispanic White	5.2	5.0	4.7	4.4	4.1	3.9	3.5	3.5	3.5	3.0	2.9	3.5	3.0	3.1
Non-Hispanic Black	12.2	12.2	12.2	12.0	11.7	11.9	11.7	12.1	12.4	12.1	11.7	11.9	10.9	10.4
Wilmington														
All Races	9.2	9.6	9.1	9.2	8.9	9.6	9.0	9.7	11.6	12.2	12.4	12.6	13.2	11.4
Non-Hispanic White														
Non-Hispanic Black	12.2	12.9	12.4	12.6	11.2	12.3	12.1	13.2	14.0	15.6	14.8	13.3	12.9	11.7
Balance of														
NC County														
All Races	6.5	6.5	6.5	6.3	6.0	6.0	5.6	5.8	5.8	5.3	5.3	5.7	5.3	5.2
Non-Hispanic White	5.3	5.2	4.8	4.5	4.3	4.1	3.7	3.7	3.5	2.9	2.6	3.2	2.7	2.9
Non-Hispanic Black	12.2	11.8	12.0	11.6	11.9	11.7	11.4	11.4	11.6	10.5	10.4	11.3	9.9	9.8
Sussex														
All Races	5.1	5.5	5.3	5.6	5.2	4.9	4.9	4.1	3.4	3.6	3.5	3.7	3.8	3.8
Non-Hispanic White	4.2	4.3	4.6	5.1	4.9	4.1	4.5	3.5						3.1
Non-Hispanic Black	10.0	12.2	10.9	10.4	9.5	10.0								

TABLE E-5. FIVE-YEAR AVERAGE NEONATAL MORTALITY RATES BY RACE, COUNTY, AND CITY OF WILMINGTON, U.S., DELAWARE 2000-2017

Notes:

1. 2013-2017 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

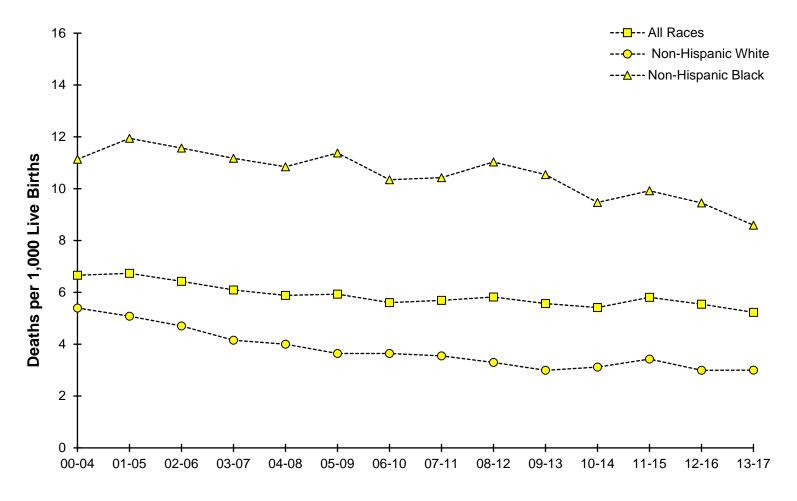


Figure E-3. Five-Year Average Neonatal Mortality Rates by Race, Delaware, 2000-2017

Five-Year Intervals

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

Area/	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Race	-2004	-2005	-2006	-2007	-2008	-2009	-2010	-2011	-2012	-2013	-2014	-2015	-2016	-2017
U.S. All Races Non-Hispanic White	2.3 1.8	2.3 2.0	2.3 2.0	2.3 2.0 4.5	2.3 2.0	2.3 2.0	2.2 1.9	2.2 1.9	2.1 1.9 4.1	2.0 1.8	2.0 1.7	1.9 1.7	1.9 1.7	N/A N/A N/A
Non-Hispanic Black	4.4	4.5	4.5	4.5	4.5	4.4	4.3	4.2	4.1	3.9	3.7	3.7	3.7	N/A
Delaware														
All Races	2.6	2.5	2.4	2.5	2.5	2.3	2.4	2.4	2.3	2.1	2.0	1.9	2.0	2.1
Non-Hispanic White	1.9	1.8	1.7	1.8	1.8	1.7	1.8	1.9	1.9	1.8	1.9	1.6	1.6	1.5
Non-Hispanic Black	4.5	4.7	4.3	4.4	4.3	4.1	3.7	3.2-	3.2	2.9-	2.7-	2.5-	3.1	3.5
Kent														
All Races	2.9	3.0	3.1	2.8	2.6	2.3	2.0	1.9	2.1	1.8		1.9	2.0	1.8
Non-Hispanic White														
Non-Hispanic Black														
New Castle														
All Races	2.4	2.3	2.3	2.5	2.5	2.3	2.6	2.7	2.5	2.4	2.3	1.8	1.9	1.9
Non-Hispanic White	1.6	1.6	1.6	1.7	1.9	1.7	1.9	2.0	2.0	1.8	2.0	1.6	1.7	1.5
Non-Hispanic Black	3.9	3.9	3.8	4.1	3.9	3.9	3.9	3.4	3.5	3.1	2.6		2.4	2.8
Wilmington														
All Races			3.2	3.9	4.1	4.2	5.1	5.2	4.6	3.7				
Non-Hispanic White														
Non-Hispanic Black							5.3							
Balance of NC County														
All Races	2.3	2.2	2.1	2.2	2.1	1.9	2.1	2.1	2.1	2.1	2.1	1.8	1.9	1.8
Non-Hispanic White	1.7	1.6	1.6	1.7	1.9	1.6	1.8	1.9	1.9	1.8	2.1	1.7	1.9	1.7
Non-Hispanic Black	4.3	4.3	4.0	4.0	3.6	3.4	3.1							
Sussex														
All Races	3.0	2.7	2.2	2.3	2.4	2.3	2.2	2.1	1.8	1.8		2.1	2.3	2.9
Non-Hispanic White														
Non-Hispanic Black														

TABLE E-6. FIVE-YEAR AVERAGE POSTNEONATAL MORTALITY RATES BY RACE, COUNTY, AND CITY OF WILMINGTON, U.S., DELAWARE, 2000-2017

Notes:

1. 2013-2017 U.S. data are based on NCHS estimates.

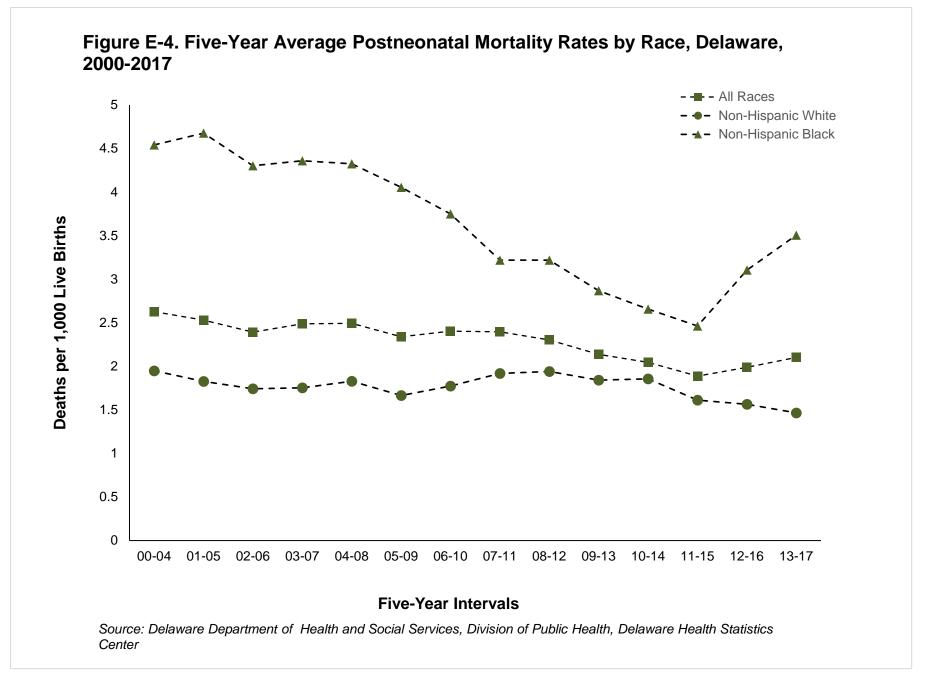
2. Postneonatal mortality rates represent the number of deaths of children 28 to 364 days of age per 1000 live births.

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



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,
2012-2016 LIVE BIRTH COHORT

Risk		Non-H	ispanic
Factor	All	White	Black
Birth Weight of Child <2500 <1500 1500-2499 2500+	62.2 263.8 9.8 2.1	48.1 221.4 2.0	74.7 290.9 2.6
Age of Mother <20 20-24 25-29 30+	7.7 8.8 7.5 6.4	 7.6 5.0 4.2	 11.6 12.9 12.3
Marital Status of Mother Married Single	4.6 10.3	3.6 8.4	8.5 13.2
Education of Mother <12 years H.S. diploma 1+ years college	7.0 10.2 5.7	9.0 6.8 4.1	8.2 15.7 9.5
Interval Since Last Live Birth <18 months 18+ months	10.6 4.4	 3.4	 7.8

Notes:

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

TABLE E-8. LEADING CAUSES OF INFANT DEATH BY GESTATIONAL AGE CATEGORY, DELAWARE, 2012-2016 LIVE **BIRTH COHORT**

		Gestation	al Age C	ategory			
Leading causes of death	Very preterm	Moderately preterm	Term	Unknown	Total	% Born Very Preterm	% Born Preterm
Disorders related to short gestation and low birth weight, not elsewhere classified	85	0	1	0	86	98.8	98.8
Newborn affected by maternal complications of pregnancy	52	2	1	0	55	94.5	98.2
Congenital malformations, deformations, and chromosomal abnormalities	9	14	23	0	46	19.6	50.0
Sudden infant death syndrome	0	3	22	0	25	0.0	12.0
Newborn affected by complications of placenta, cord, and membranes	20	1	0	0	21	95.2	100.0
Respiratory distress of newborn	16	0	1	0	17	94.1	94.1
Bacterial sepsis of newborn	7	1	4	0	12	58.3	66.7
Diseases of the circulatory system	1	1	8	0	10	10.0	20.0
Accidents (unintentional injuries)	1	1	7	0	9	11.1	22.2
Diarrhea and gastroenteritis of infectious origin	8	0	0	0	8	100.0	100.0
Intrauterine hypoxia and birth asphyxia	4	1	3	0	8	50.0	62.5
Assault (homicide)	0	1	5	0	6	0.0	16.7
Atelectasis	5	0	0	0	5	100.0	100.0
Necrotizing enterocolitis of newborn	4	0	1	0	5	80.0	80.0
Volume depletion, disorders of fluid, electrolyte and acid-base balance	2	0	1	1	4	50.0	50.0
Neonatal hemorrhage	2	2	0	0	4	50.0	100.0
Septicemia	3	0	0	0	3	100.0	100.0
Newborn affected by other complications of labor and delivery	3	0	0	0	3	100.0	100.0
Hydrops fetalis not due to hemolytic disease	2	1	0	0	3	66.7	100.0
Diseases of the blood and blood-forming organs and certain disorders involving	1	0	1	0	2	50.0	50.0
All other causes	31	7	29	0	67	46.3	56.7
TOTAL	256	35	107	1	399	64.2	72.9

Notes:

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

TABLE E-9. FIVE-YEAR AVERAGE INFANT MORTALITY RATES BY RACE AND SELECTED RISK
MARKERS, DELAWARE LIVE BIRTH COHORT, 2000-2016

MARKERS, DELAWA	ARE LIVI	- BIR I H	COHOR	(1,2000	-2016								
Parameter/	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Race	-2004	-2005	-2006	-2007	-2008	-2009	-2010	-2011	-2012	-2013	-2014	-2015	-2016
				-		5111							
2500+ All Races Non-Hispanic White Non-Hispanic Black	2.5 2.2 3.9	2.2 1.9 3.5	2.2 1.7 3.6	2.3 1.8 3.4	2.0 1.6 2.9	1.9 1.6 2.7	2.2 2.0 2.6	2.2 2.3 2.2	2.2 2.4 2.5	2.2 2.5 2.5	2.2 2.4 2.5	2.2 2.2 2.6	2.1 2.0 2.6
<2500 All Races Non-Hispanic White Non-Hispanic Black	73.1 68.2 83.2	74.5 67.3 88.1	69.9 62.9 81.1	68.8 58.4 82.6	69.2 59.8 84.2	70.6 55.5 90.1	65.5 54.5 82.1	67.1 52.3 86.5	68.2 51.1 88.9	64.6 46.9 83.3	61.7 47.1 76.3	64.6 49.4 79.6	62.2 48.1 74.7
<1500 All Races Non-Hispanic White Non-Hispanic Black	306.2 310.0 302.8	313.9 310.3 316.3	289.4 283.9 289.1	285.8 270.5 285.7	286.8 268.1 290.9	279.3 240.6 298.0	260.8 228.6 283.3	264.7 222.5 295.2	267.6 215.2 308.6	258.6 203.9 296.5	253.1 209.0 277.2	267.7 228.3 289.4	263.8 221.4 290.9
				(GESTATIC	N							
37+ weeks All Races Non-Hispanic White Non-Hispanic Black	2.4 2.0 4.0	2.2 1.8 3.4	2.2 1.7 3.4	2.3 1.9 3.4	2.0 1.8 2.8	2.0 1.7 2.6	2.4 2.3 2.7	2.6 2.7 2.6	2.6 2.7 2.7	2.5 2.7 2.7	2.6 2.8 2.9	2.5 2.3 3.1	2.2 2.0 3.0
<37 weeks All Races Non-Hispanic White Non-Hispanic Black	52.6 46.6 67.9	53.5 45.4 73.0	49.1 40.5 68.4	47.1 36.8 67.3	47.0 36.8 68.5	47.3 35.0 71.5	43.6 34.2 64.4	44.3 33.0 66.8	45.5 32.3 69.6	44.0 31.2 65.6	41.5 28.9 60.1	44.8 32.8 63.0	43.3 33.0 58.5
<32 weeks All Races Non-Hispanic White Non-Hispanic Black	239.4 239.7 240.6	249.1 241.7 260.3	232.4 215.6 249.2	220.4 192.6 245.6	220.4 191.1 254.0	216.9 178.3 258.1	195.0 160.1 236.5	195.7 154.9 241.2	198.7 146.2 249.6	190.8 137.7 235.5	178.9 130.1 216.0	189.6 144.2 226.1	186.9 144.6 225.0
					PLURALIT	Y							
Single All Races Non-Hispanic White Non-Hispanic Black	7.5 5.8 13.6	7.4 5.6 13.7	7.1 5.2 13.0	7.2 5.2 12.8	7.0 5.1 12.2	7.0 4.7 12.6	7.0 5.3 11.8	7.0 5.4 11.7	6.9 5.2 11.8	6.7 5.1 11.5	6.3 4.8 10.6	6.4 4.6 10.9	6.1 4.4 10.4
Plural All Races Non-Hispanic White Non-Hispanic Black	50.3 43.0 54.3	52.0 42.6 65.0	47.0 37.3 59.7	44.0 30.2 64.4	40.3 26.5 68.6	41.0 26.2 70.4	32.6 21.0 54.9	34.2 20.8 54.9	35.0 22.0 56.6	34.5 22.2 46.6	36.1 27.0 40.5	42.6 33.3 47.5	43.4 35.2 50.4
				SMOKIN	G DURING	PREGNA	NCY						
No													
No All Races Non-Hispanic White Non-Hispanic Black	8.2 6.1 14.4	8.2 5.9 14.8	7.9 5.8 13.7	7.7 5.3 13.5	7.4 5.1 13.2	7.6 4.9 13.8	7.4 5.5 12.8	7.4 5.4 13.0	7.4 5.5 13.3	7.2 5.3 12.5	6.7 4.9 11.6	6.9 4.7 12.0	6.6 4.5 11.2
Yes All Races Non-Hispanic White Non-Hispanic Black	14.8 13.4 19.7	15.1 13.4 22.3	13.4 10.4 24.2	13.9 10.8 24.2	13.3 10.8 21.6	12.1 8.7 21.9	10.7 8.2 17.8	10.8 8.5 16.1	10.0 7.3 16.2	9.7 6.9 16.0	10.7 8.8 14.4	11.5 10.0 15.0	12.1 10.4 17.6

See footnotes at the end of the table

TABLE E-9. FIVE-YEAR AVERAGE INFANT MORTALITY RATES BY RACE AND SELECTED RISK MARKERS, DELAWARE, LIVE BIRTH COHORT, 2000-2016 (continued)

DELAWARE, LIV	E BIRTF		7RT, 200	00-2016	(contir	iuea)									
Parameter/	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Race	-2004	-2005	-2006	-2007	-2008	-2009	-2010	-2011	-2012	-2013	-2014	-2015	-2016		
					ED	UCATION	l								
HS Grad or less															
All Races	11.4	11.1	10.7	10.8	10.1	10.0	10.0	10.0	9.5	9.5	8.8	9.3	8.9		
Non-Hispanic White	9.8	9.3	8.9	8.8	8.5	8.1	8.6	8.3	7.8	7.7	7.2	7.8	7.5		
Non-Hispanic Black	17.1	17.4	16.6	16.4	15.3	15.4	14.8	15.0	15.3	15.1	13.7	14.2	13.3		
1+ yrs college															
All Races	6.0	6.3	5.8	5.4	5.6	5.9	5.6	5.8	6.2	5.7	5.7	5.9	5.7		
Non-Hispanic White	5.1	5.1	4.3	4.0	4.0	3.8	4.1	4.5	4.7	4.4	4.5	4.3	4.1		
Non-Hispanic Black	11.1	12.1	11.2	11.1	11.5	13.1	11.2	10.8	11.0	9.7	9.2	9.6	9.5		
				F	PAYMEN	f for de	LIVERY								
Medicaid															
All Races	9.8	10.2	9.6	10.4	10.2	9.9	9.5	9.3	8.8	8.5	8.2	8.7	8.7		
Non-Hispanic White	8.8	9.2	8.5				8.4	7.3		6.7	6.8	7.1	7.6		
Non-Hispanic Black	13.8	14.8	13.9		-	14.0		13.5		13.0	12.2	12.6	11.8		
Private Insurance															
All Races	7.8	7.6	7.4	6.7	6.4	6.6	6.4	6.4	6.6	6.4	6.2	6.2	5.9		
Non-Hispanic White	6.0	5.6		4.7	4.5	4.3		5.1	4.9	4.9	4.6	4.5	4.0		
Non-Hispanic Black	17.0	17.1	16.7	15.5	14.9	16.3	14.8	13.4	13.9	12.6	11.3	12.2	12.0		

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.



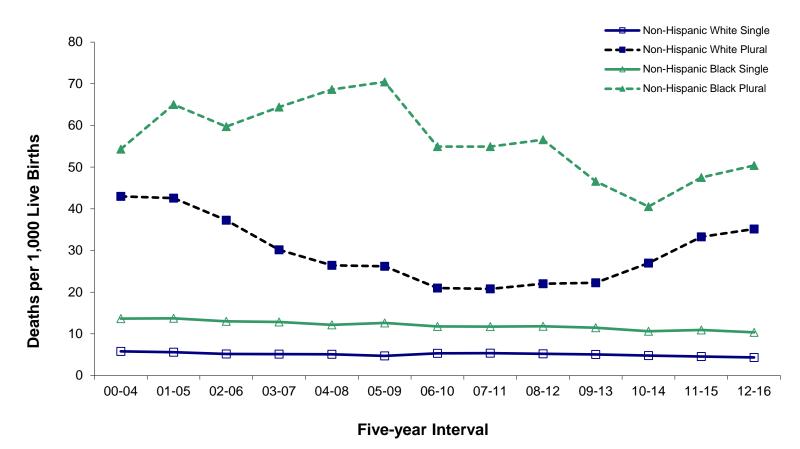
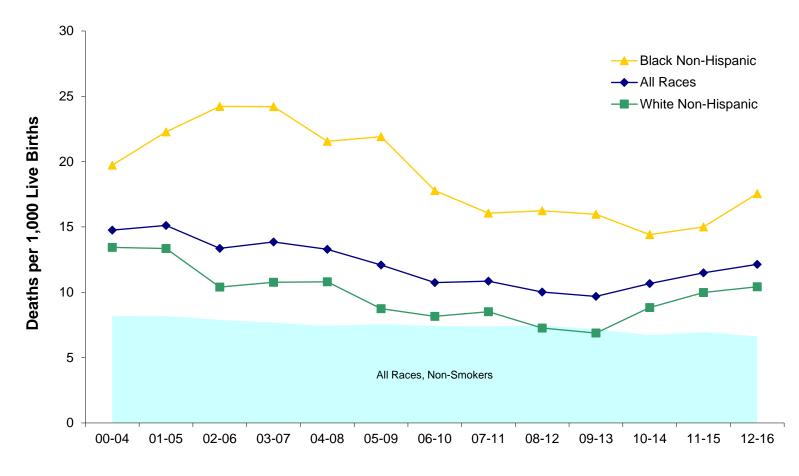
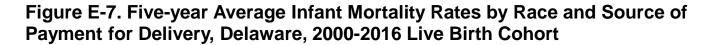
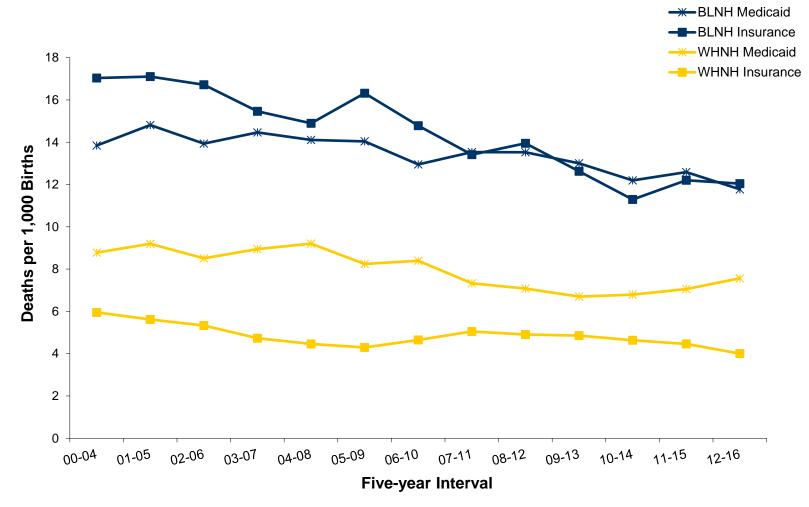


Figure E-6. Five-year Average Infant Mortality Rates by Race of Mothers who Smoked during Pregnancy versus all Non-smoking Mothers, Delaware, 2000-2016 Live Birth Cohort



Five-year Interval





	Race and Sex											
										· Non-		
Plurality/	All Races			Non-Hispanic White				Hispanic	Black		panic	
Birth Weight	Both			Both			Both			Both		
	Sexes	Male	Female	Sexes	Male	Female	Sexes	Male	Female	Sexes	Male	Female
All Births	399	219	180	156	81	75	171	97	74	19	11	8
<2500	295	165	130	100	56	44	138	77	61	15	8	7
<1500	258	147	111	85	47	38	128	74	54	13	6	7
<500	133	73	60	35	19	16	77	42	35	8	3	5
500-999	106	67	39	39	23	16	46	31	15	4	2	2
1000-1499	19	7	12	11	5	6	5	1	4	1	1	0
1500-1999	13	7	6	5	3	2	3	1	2	1	1	0
2000-2499	24	11	13	10	6	4	7	2	5	1	1	0
2500+	103	54	49	55	25	30	33	20	13	4	3	1
2500-2999	39	20	19	22	10	12	9	4	5	2	2	0
3000-3499	35	16	19	15	5	10	15	10	5	2	1	1
3500-3999	17	9	8	9	4	5	6	3	3	0	0	0
4000-4499	11	8	3	8	5	3	3	3	0	0	0	0
4500+	1	1	0	1	1	0	0	0	0	0	0	0
Unknown	1	0	1	1	0	1	0	0	0	0	0	0
Cincela Distina	220	170	4 47	104	05	50	4.45	04	64	47	0	
Single Births <2500	326 228	179 127	147 101	124 73	65 42	59 31	145 113	81 61	64 52	17 13	9 6	8 7
<1500	220 195	127	83	60	42 35	25	104	59	52 45	13	4	7
<500	98	52	46	24	14	10	60	31	43 29	7	2	5
500-999	82	55	27	28	17	11	39	27	12	4	2	2
1000-1499	15	5	10	8	4	4	5	1	4	0	0	0
1500-1999	10	5	5	4	2	2	2	0	2	1	1	0
2000-2499	23	10	13	9	5	4	7	2	5	1	1	0
2500+	97	52	45	50	23	27	32	20	12	4	3	1
2500-2999	38	20	18	22	10	12	8	4	4	2	2	0
3000-3499	32	15	17	12	4	8	15	10	5	2	1	1
3500-3999	15	8	7	7	3	4	6	3	3	0	0	0
4000-4499	11	8	3	8	5	3	3	3	0	0	0	0
4500+	1	1	0	1	1	0	0	0	0	0	0	0
Unknown	1	0	1	1	0	1	0	0	0	0	0	0
Plural Births	73	40	33	32	16	16	26	16	10	2	2	0
<2500	67	40 38	29	32 27	14	13	20 25	16	9	2	2	0
<1500	63	35	29	27	14	13	23 24	15	9	2	2	0
<500	35	21	14	11	5	6	17	11	6	1	1	0
500-999	24	12	12	11	6	5	7	4	3	0	0	0
1000-1499	4	2	2	3	1	2	0	0	0	1	1	0
1500-1999	3	2	1	1	1	0	1	1	0	0	0	0
2000-2499	1	1	0	1	1	0	0	0	0	0	0	0
2500+	6	2	4	5	2	3	1	0	1	0	0	0
2500-2999	1	0	1	0	0	0	1	0	1	0	0	0
3000-3499	3	1	2	3	1	2	0	0	0	0	0	0
3500-3999	2	1	1	2	1	1	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	0	0	0	0	0	0	0	0	0	0	0	0

TABLE E-10. NUMBER OF INFANT DEATHS BY PLURALITY, BIRTH WEIGHT IN GRAMS, RACE OF MOTHER, AND SEX OF CHILD, DELAWARE, 2012-2016, LIVE BIRTH COHORT

Note:

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

Race and Sex												
				Hispanic White Non-			Hispanic Black No			on-Hispanic Other		
Birth Weight	Both			Both			Both			Both		
	Sexes	Male	Female	Sexes	Male	Female	Sexes	Male	Female	Sexes	Male	
All Births	399	219	180	103	58	45	135	79	56	17	9	
<2500	295	165	130	84	45	39	133	79	52	14	9 7	
<1500	258	105	111	78	43	39	124	72	48	14	5	
<500	133	73	60	35	19	16	77	42	35	8	3	
500-999	106	67	39	33	19	14	40	29	11	3	1	
1000-1499	19	7	12	10	4	6	3	1	2	1	1	
1500-1999	13	7	6	0	0	0	1	0	1	1	1	
2000-2499	24	, 11	13	6	3	3	3	0	3	1	1	
2500+	33	22	11	19	13	6	11	7	4	3	2	
2500-2999	39	20	19	.0	6	3	1	1	0	2	2	
3000-3499	35	16	19	3	3	0	7	4	3	1	0	
3500-3999	17	9	8	2	2	0	2	1	1	0	0	
4000-4499	11	8	3	4	1	3	1	1	0	0	0	
4500+	1	1	0	1	1	0	0	0	0	0	0	
Unknown	1	0	1	0	0	0	0	0	0	0	0	
Single Births	326	179	147	78	45	33	113	64	49	15	7	
<2500	228	127	147	60	33	27	102	57	49 45	12	5	
<1500	195	1127	83	55	31	24	98	57	43	12	3	
<500	98	52	46	24	14	10	60	31	29	7	2	
500-999	82	55	27	23	13	10	35	25	10	3	1	
1000-1499	15	5	10	8	4	4	3	1	2	0	0	
1500-1999	10	5	5	0	0	0	1	0	1	1	1	
2000-2499	23	10	13	5	2	3	3	0	3	1	1	
2500+	97	52	45	18	12	6	11	7	4	3	2	
2500-2999	38	20	18	9	6	3	1	1	0	2	2	
3000-3499	32	15	17	2	2	0	7	4	3	1	0	
3500-3999	15	8	7	2	2	0	2	1	1	0	0	
4000-4499	11	8	3	4	1	3	1	1	0	0	0	
4500+	1	1	0	1	1	0	0	0	0	0	0	
Unknown	1	0	1	0	0	0	0	0	0	0	0	
Plural Births	73	40	33	25	13	12	22	15	7	2	2	
<2500	67	38	29	24	12	12	22	15	7	2	2	
<1500	63	35	28	23	11	12	22	15	7	2	2	
<500	35	21	14	11	5	6	17	11	6	1	1	
500-999	24	12	12	10	6	4	5	4	1	0	0	
1000-1499	4	2	2	2	0	2	0	0	0	1	1	
1500-1999	3	2	1	0	0	0	0	0	0	0	0	
2000-2499	1	1	0	1	1	0	0	0	0	0	0	
2500+	6 1	2 0	4 1	1 0	1 0	0 0	0	0 0	0 0	0 0	0 0	
2500-2999 3000-3499	1 3	1	2	0	0	0	0	0	0	0	0	
3500-3999	2	1	2	0	0	0	0	0	0	0	0	
4000-4499	2	0	0	0	0	0	0	0	0	0	0	
4500+	0	0	0	0	0	0	0	0	0	0	0	
Unknown	0	0	0	0	0	0	0	0	0	0	0	
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TABLE E-11. NUMBER OF NEONATAL DEATHS BY PLURALITY, BIRTH WEIGHT IN GRAMS,RACE OF MOTHER, AND SEX OF CHILD, DELAWARE, 2012-2016 LIVE BIRTH COHORT

Note:

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