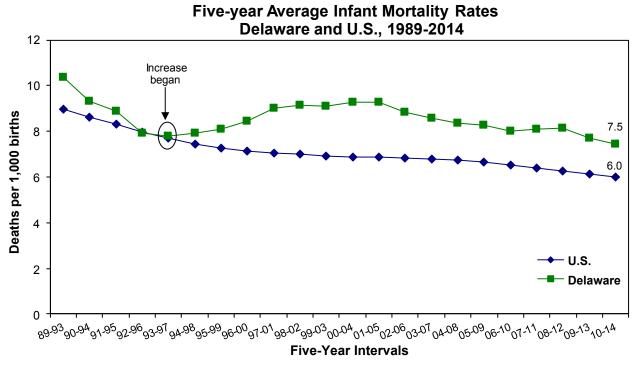
DELAWARE VITAL STATISTICS ANNUAL REPORT INFANT MORTALITY, 2014



Suggested Citation:

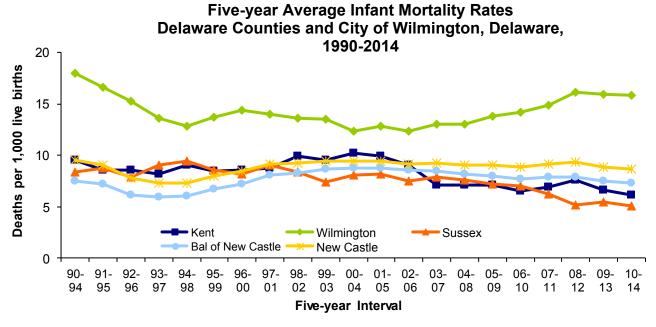
Delaware Health Statistics Center. *Delaware Vital Statistics Annual Report*, 2014. Delaware Health and Social Services, Division of Public Health: 2017.

In 2010-2014, Delaware's infant mortality rate (IMR) was 7.5 infant deaths per 1,000 live births, resulting in a total decline of 19.4 percent from its 2000-2004 peak of 9.3 infant deaths per 1,000 live births. At 6.0 infant deaths per 1,000 live births, the U.S. rate remained lower than the Delaware rate.

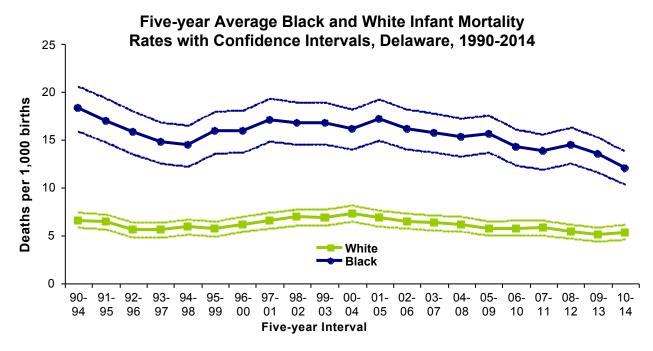


Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

Wilmington's IMR continued to be the highest in Delaware. The combination of Wilmington's high IMR and a 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. Sussex County's IMR remained the lowest at 5.1. In 2010-2014, the balance of New Castle County's IMR was 7.3, Wilmington's IMR was 15.8, and Kent County's IMR was 6.2.

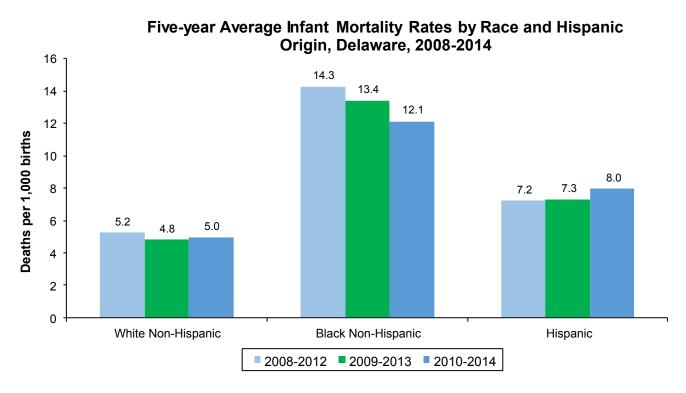


Black infants experienced significantly higher mortality rates than white infants, but the gap is decreasing. In 2010-2014, the black IMR was two times higher than the white IMR, whereas in 1990-1994 the black IMR was three times higher.



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

Significant disparities existed between black non-Hispanics and each of the two other groups: white non-Hispanics and Hispanics. Black non-Hispanics had the highest IMRs in all three time periods, and their rate of 12.1 infant deaths per 1,000 live births in 2010-2014 was more than double the white non-Hispanic rate of 5.0 and 1.5 times the Hispanic rate of 8.0.

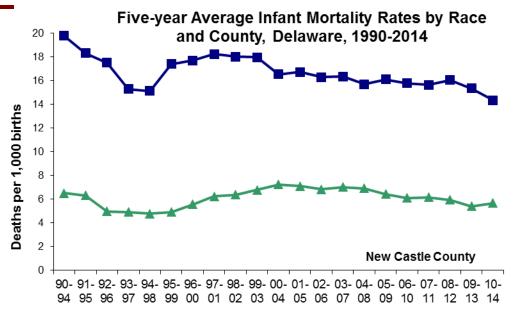


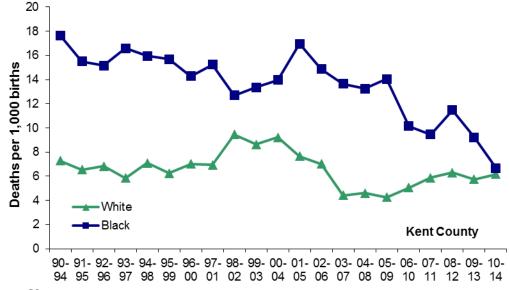
In 2010-2014, New Castle County had the highest IMRs and Sussex County had the lowest.

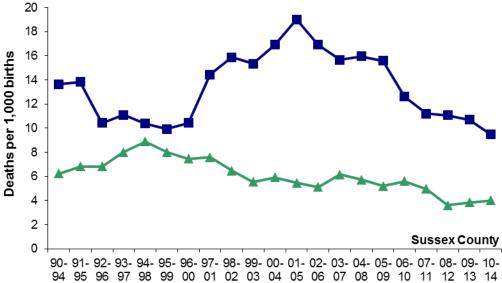
Black IMRs in New Castle County have hovered around 16 infants per 1,000 live births since 2002-2006, and decreased the last two time periods to 14.3 infant deaths per 1,000 live births.

Black IMRs in Kent County peaked at 17 infant deaths per 1,000 live births in 2001-2005. The IMR dropped to 6.7 in 2010-2014, a 61 percent decrease in black IMRs from 2001-2005. The white IMR had a 44 percent increase from 2005-2009 to 2010-2014 (4.3 to 6.2 infant deaths per 1,000 live births), thus narrowing the disparity between the white and black IMR.

Sussex County's black IMR dropped to 9.5 infant deaths per 1,000 live births in 2010-2014, its lowest rate since 1996-2000; a 50 percent reduction from the 2001-2005 peak of 19. Sussex County's white IMR fluctuated between 5 and 6 from 1999-2003 to 2007-2011, and in 2010-2014 the rate dropped to 4 infant deaths per 1,000 births.







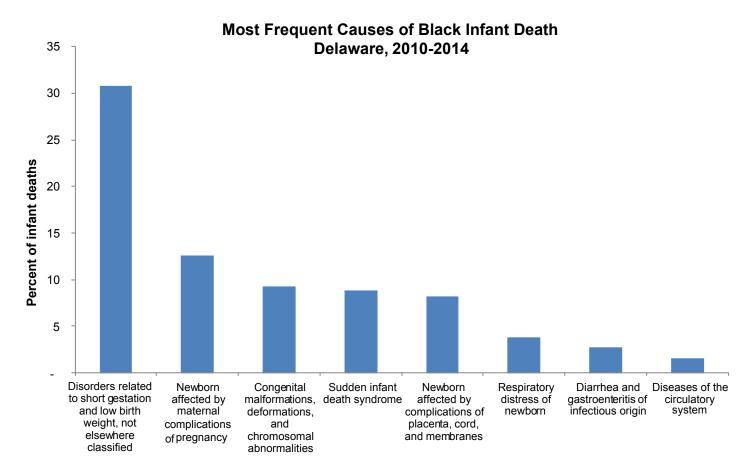
In 2010-2014, the five leading causes of infant death in Delaware were:

- Disorders related to short gestation and fetal malnutrition (prematurity and low birthweight), which accounted for 23.1 percent of infant deaths.
- Congenital anomalies (birth defects), which accounted for 15.5 percent of infant deaths.
- Newborns affected by maternal complications of pregnancy, which accounted for 10.4 percent of infant deaths. Of the 43 deaths attributed to this cause, 37 were due to the newborn being affected by incompetent cervix and premature rupture of membranes.
- Sudden infant death syndrome (SIDS), which accounted for 10 percent of all infant deaths.
- Newborns affected by complications of placenta, cord, and membranes were 6.6 percent of infant deaths.

In sum, the five most common causes of infant death accounted for 66 percent, or 286 of the 412 total infant deaths.

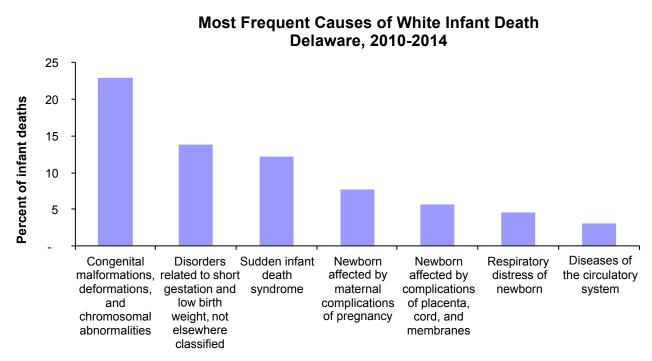
The most frequent causes of death by race are shown in the graphs below and on the following page. Birth defects and disorders related to short gestation and low birthweight were listed in the top three most frequent causes of death for both black and white infants.

Though the proportions of deaths by race were similar for many of the causes of death, notable exceptions were birth defects and disorders due to prematurity and low birthweight. While birth defects were responsible for 23 percent of all white infant deaths, they accounted for only 9 percent of black infant deaths. Conversely in 2010-2014, infant deaths due to disorders related to prematurity and low birthweight accounted for larger percentages of black infant deaths than white infant deaths (31 percent versus 14 percent for prematurity and low birthweight).



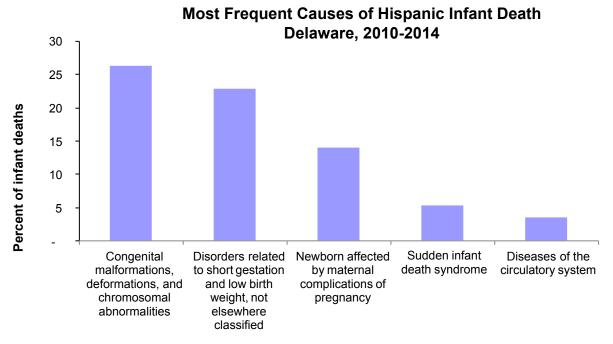
Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

May, 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, 2010-2014, 13.0 percent of all live births were to Hispanic mothers, and 13.8 percent of all infant deaths were of Hispanic origin.

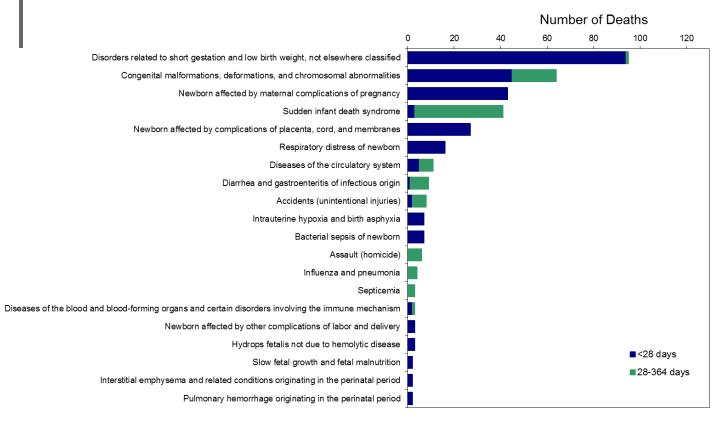
Two causes of death accounted for the greatest number of Hispanic infant deaths: birth defects and disorders related to prematurity and low birthweight.



In Delaware in 2010-2014, approximately 94 percent of all infant deaths occurred within the first six months of life, 73 percent occurred within the first 28 days of life, and 44 percent occurred within 24 hours of birth.

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

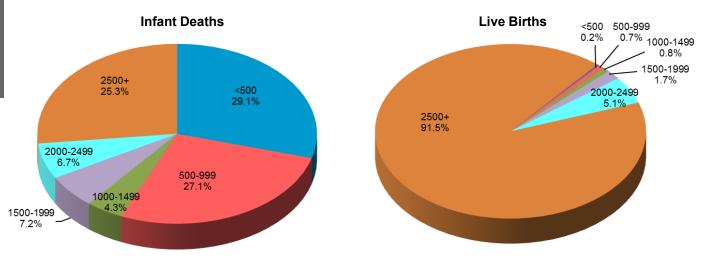
Most Frequent Causes of Infant Death Delaware, 2010-2014



- Prematurity and low birthweight accounted for the greatest number of infant deaths in 2010-2014; all but one 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 107 days. Although fewer infants died in 2010-2014 compared to 2009-2013 and less infants died due to SIDS, it remained in the top five leading causes of infant death in 2010-2014.
 - ⇒ 41 percent (17 out of 41) of the SIDS deaths were associated with co-sleeping and/or sleeping on soft surfaces, such as couches and adult beds.
- In 2010-2014, there were eight 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, 6.1 percent of all infant deaths were associated with co-sleeping and/or unsafe sleep practices.

Though only 1 percent of all live births in 2009-2013 were infants weighing less than 1,000 grams, they accounted for over half (56 percent) of all infant deaths. In total, 8.5 percent of all live births in 2009-2013 were infants of low birthweight (under 2,500 grams), while 74.4 percent of infant deaths were low birthweight.

Distribution by Birthweight, Delaware Live Birth Cohort, 2009-2013

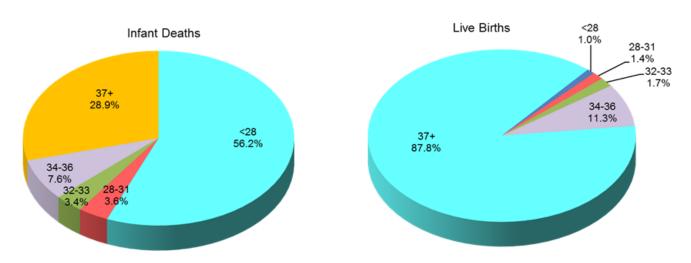


Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

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 2009-2013 were less than 28 weeks gestation at birth, but they accounted for 56 percent of all infant deaths. In total, 15 percent of all live births in 2009-2013 were born preterm (<37 weeks of gestation) and 71 percent of infant deaths were born preterm.

Distribution by Gestation, Delaware Live Birth Cohort, 2009-2013



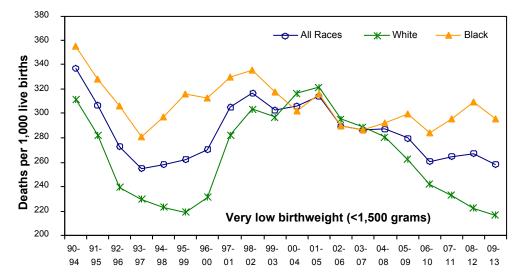
Birthweight and gestation are considered to be the most important predictors of infant health and mortality risk. Infants born too small or too early have a much greater risk of mortality than those who reach a normal birthweight (2,500+ grams) or full-term gestation (37+ weeks).

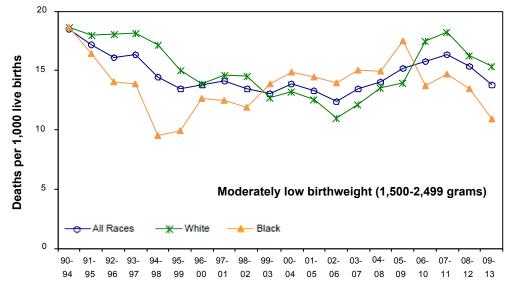
The IMR for very low birthweight (VLBW) black infants decreased in the most recent year after increasing for two years while the IMR for VLBW white infants decreased for the eighth straight year. In 2009-2013, IMRs for VLBW infants were 217 white infant deaths and 295 black infant deaths per 1,000 live births.

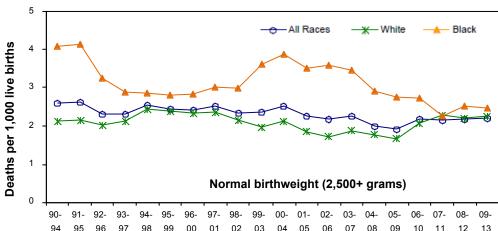
IMRs for moderately low birthweight infants of all races declined 15.3 percent between 2007-2011 and 2009 -2013. During that time, white IMRs decreased 15.4 percent while the black IMR decreased by 25.6 percent, making their rates lower than the white rates (10.9 vs 15.4).

The IMR for all races remained the same from 2007-2011 to 2009-2013. IMRs for normal birthweight white infants also remained stable, resulting in no net change since 2000-2004, while the IMRs for black infants declined 36 percent between 2000-2004 and 2009 -2013. The divergent movement in black and white rates in 2009-2013 narrowed the black/white disparity ratio; the black IMR for normal birthweight infants was 2.5, versus 2.3 for white infants of normal birthweight.

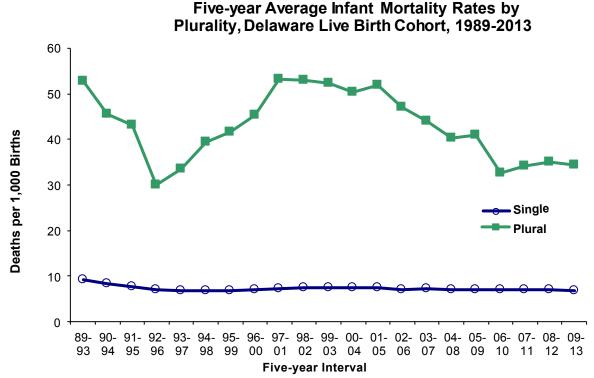
Five-year Average Infant Mortality Rate by Birthweight and Race, Delaware, 1990-2013 Live Birth Cohort







From 1992-1996 to 1997-2001, IMRs for plural births increased 77 percent, to 53.1 infant deaths per 1,000 live births. During the same time, IMRs for singleton births increased by 5 percent. Since then, plural IMRs have decreased 35 percent. IMRs for singleton births experienced a decrease of 8 percent. In 2009-2013, the infant mortality rate for plural births was more than five times that of singleton births (34.5 versus 6.7 infant deaths per 1,000 live births).



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

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

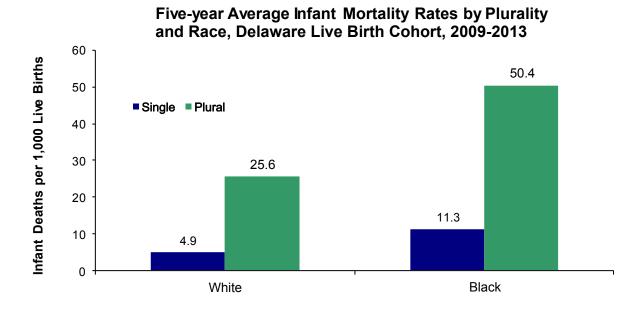


TABLE E-1 NUMBER OF INFANT DEATHS BY RACE

U.S., DELAWARE, COUNTIES AND CITY OF WILMINGTON, 1997-2014

Area/ Race	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
U.S. All Races White Black Other	28045 18539 8496 1010	28371 18561 8726 1084	27937 18067 8822 1048	28035 18144 8771 1120	27568 17955 8498 1115	28034 18369 8524 1141	28025 18440 8402 1183	27936 18231 8494 1211	28440 18514 8695 1231	28527 18403 8858 1266	29138 18807 8944 1387	28059 18164 8543 1352	26412 16817 8312 1283	24586 15954 7401 1231	23985 15460 7284 1241	23629 15258 7095 1276	23446 15152 6862 1432	23215 14883 7076 1256
Delaware All Races White Black Other	81 42 36 3	103 54 49 0	81 31 49 1	102 65 37 0	114 60 53 1	96 57 35 4	107 53 53 1	97 51 44 2	106 48 55 3	99 50 44 5	91 52 38 1	101 49 52 0	91 30 54 7	88 47 36 5	98 48 38 12	84 34 44 6	68 30 34 4	74 38 30 6
Kent All Races White Black Other	14 4 10 0	18 13 5 0	10 4 6 0	21 16 5 0	19 10 9 0	27 22 5 0	16 8 8 0	17 8 8 1	21 6 14 1	13 7 5 1	9 4 4 1	18 10 8 0	18 6 12 0	15 12 3 0	17 13 3 1	17 7 10 0	6 5 1 0	13 9 4 0
New Castle All Races White Black Other	48 26 20 2	65 27 38 0	61 22 38 1	67 40 27 0	72 37 35 0	55 30 22 3	78 37 40 1	60 33 27 0	68 35 31 2	68 31 35 2	60 33 27 0	70 32 38 0	57 18 34 5	58 24 30 4	74 29 34 11	58 24 28 6	48 17 28 3	49 22 21 6
Wilmington All Races White Black Other	14 4 10 0	18 2 16 0	20 4 16 0	16 4 12 0	17 2 15 0	12 2 10 0	18 4 14 0	12 4 8 0	18 3 15 0	16 2 14 0	17 3 14 0	19 7 12 0	18 0 16 2	18 4 13 1	17 2 15 0	20 8 11 1	14 2 11 1	14 5 8 1
Balance of NC County All Races White Black Other	34 22 10 2	47 25 22 0	41 18 22 1	51 36 15 0	55 35 20 0	43 28 12 3	60 33 26 1	48 29 19 0	50 32 16 2	52 29 21 2	43 30 13 0	51 25 26 0	39 18 18 3	40 20 17 3	57 27 19 11	38 16 17 5	34 15 17 2	35 17 13 5
Sussex All Races White Black Other	19 12 6 1	20 14 6 0	10 5 5 0	14 9 5 0	23 13 9 1	14 5 8 1	13 8 5 0	20 10 9 1	17 7 10 0	18 12 4 2	22 15 7 0	13 7 6 0	16 6 8 2	15 11 3 1	7 6 1 0	9 3 6 0	14 8 5 1	12 7 5 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 Health and Social Services, Division of Public Health, Delaware Health Statistics Center

TABLE E-2 NUMBER OF NEONATAL DEATHS BY RACE

U.S., DELAWARE, COUNTIES AND CITY OF WILMINGTON, 1997-2014

Area/	4007	4000	1999	2000	2004	2002	2003	2004	2005	2000	2007	2000	2000	2040	2011	2042	2013	2014
Race	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
U.S. All Races White Black Other	18524 12269 5637 618	18918 12406 5824 688	18728 12164 5920 644	18776 12201 5843 732	18265 12013 5585 667	18749 12354 5646 749	18893 12495 5640 758	18593 12238 5495 860	18770 12239 5740 791	18989 12302 5876 811	19058 12333 5842 883	18211 11843 5523 845	17255 11054 5374 827	16188 10612 4769 807	15954 10422 4719 813	15886 10267 4610 1009	15893* 10264* 4647* 982*	15720 10170 4686 864
Delaware All Races White Black Other	55 26 27 2	74 33 41 0	58 21 37 0	71 45 26 0	82 44 37 1	79 48 28 3	75 36 38 1	63 33 28 2	79 36 40 3	72 36 33 3	65 37 28 0	68 32 36 0	66 19 40 7	58 27 26 5	73 30 35 8	66 25 35 6	47 18 25 4	55 29 21 5
Kent All Races White Black Other	10 1 9 0	9 6 3 0	8 3 5 0	15 11 4 0	15 10 5 0	22 18 4 0	8 3 5 0	11 5 5 1	14 3 10 1	7 4 3 0	6 3 3 0	12 7 5 0	14 4 10 0	11 9 2 0	13 9 3 1	12 4 8 0	3 3 0 0	10 8 2 0
New Castle All Races White Black Other	33 19 13 1	47 15 32 0	44 14 30 0	50 29 21 0	54 27 27 0	47 26 19 2	56 27 28 1	39 21 18 0	54 28 24 2	52 22 28 2	43 23 20 0	48 20 28 0	42 13 24 5	36 9 23 4	57 18 32 7	47 20 21 6	34 9 22 3	37 15 17 5
Wilmington All Races White Black Other	6 3 3 0	12 1 11 0	14 2 12 0	13 4 9 0	14 1 13 0	9 1 8 0	10 1 9 0	9 3 6 0	15 3 12 0	12 1 11 0	10 1 9 0	10 3 7 0	14 0 12 2	10 0 9 1	14 1 13 0	18 8 9 1	11 2 8 1	12 5 6 1
Balance of NC County All Races White Black Other	27 16 10 1	35 14 21 0	30 12 18 0	37 25 12 0	40 26 14 0	38 25 11 2	46 26 19 1	30 18 12 0	39 25 12 2	40 21 17 2	33 22 11 0	38 17 21 0	28 13 12 3	26 9 14 3	43 17 19 7	29 12 12 5	23 7 14 2	25 10 11 4
Sussex All Races White Black Other	12 6 5 1	18 12 6 0	6 4 2 0	6 5 1 0	13 7 5 1	10 4 5 1	11 6 5 0	13 7 5 1	11 5 6 0	13 10 2 1	16 11 5 0	8 5 3 0	10 2 6 2	11 9 1 1	3 3 0 0	7 1 6 0	10 6 3 1	8 6 2 0

Notes:

*Based on NCHS estimate.

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

Sources:

National Center for Health Statistics

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

TABLE E-3 NUMBER OF POSTNEONATAL DEATHS BY RACE

U.S., DELAWARE, COUNTIES AND CITY OF WILMINGTON, 1997-2014

Area/ Race	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
U.S. All Races																		
White Black Other	9521 6270 2859 392	9453 6155 2902 396	9209 5903 2902 404	9259 5943 2928 388	9303 5942 2913 448	9285 6015 2878 392	9132 5945 2762 425	9343 5993 2999 351	9670 6275 2955 440	9538 6101 2982 455	10080 6474 3102 504	9848 6321 3020 507	9157 5763 2938 456	8398 5342 2632 424	8031 5038 2565 428	7743 4991 2485 267	7553* 4888* 2215* 450*	7495 4713 2390 392
	392	390	404	300	440	392	425	331	440	455	504	507	430	424	420	207	450	392
Delaware All Races White Black	26 16 9	29 21 8	23 10 12	31 20 11	32 16 16	17 9 7	32 17 15	34 18 16	27 12 15	27 14 11	26 15 10	33 17 16	25 11 14	30 20 10	25 18 3	18 9 9	21 12 9	19 9 9
Other	1	0	1	0	0	1	0	0	0	2	1	0	0	0	4	0	0	1
Kent All Races White Black Other	4 3 1 0	9 7 2 0	2 1 1 0	6 5 1 0	4 0 4 0	5 4 1 0	8 5 3 0	6 3 3 0	7 3 4 0	6 3 2 1	3 1 1 1	6 3 3 0	4 2 2 0	4 3 1 0	4 4 0 0	5 3 2 0	3 2 1 0	3 1 2 0
New Castle All Races White Black Other	15 7 7 1	18 12 6 0	17 8 8 1	17 11 6 0	18 10 8 0	8 4 3 1	22 10 12 0	21 12 9 0	14 7 7 0	16 9 7 0	17 10 7 0	22 12 10 0	15 5 10 0	22 15 7 0	17 11 2 4	11 4 7 0	14 8 6 0	12 7 4 1
Wilmington All Races White Black Other	8 1 7 0	6 1 5 0	6 2 4 0	3 0 3 0	3 1 2 0	3 1 2 0	8 3 5 0	3 1 2 0	3 0 3 0	4 1 3 0	7 2 5 0	9 4 5 0	4 0 4 0	8 4 4 0	3 1 2 0	2 0 2 0	3 0 3 0	2 0 2 0
Balance of NC County All Races White Black Other	7 6 0 1	12 11 1 0	11 6 4 1	14 11 3 0	15 9 6 0	5 3 1 1	14 7 7 0	18 11 7 0	11 7 4 0	12 8 4 0	10 8 2 0	13 8 5 0	11 5 6 0	14 11 3 0	14 10 0 4	9 4 5 0	11 8 3 0	10 7 2 1
Sussex All Races White Black Other	7 6 1 0	2 2 0 0	4 1 3 0	8 4 4 0	10 6 4 0	4 1 3 0	2 2 0 0	7 3 4 0	6 2 4 0	5 2 2 1	6 4 2 0	5 2 3 0	6 4 2 0	4 2 2 0	4 3 1 0	2 2 0 0	4 2 2 0	4 1 3 0

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

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

TABLE E-4 FIVE-YEAR AVERAGE INFANT MORTALITY RATES BY RACE

U.S., DELAWARE, COUNTIES AND CITY OF WILMINGTON, 1994-2014

Area/	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Race	-1998	-1999	-2000	-2001	-2002	-2003	-2004	-2005	-2006	-2007	-2008	-2009	-2010	-2011	-2012	-2013	-2014
U.S. All Races White Black	7.5 6.2 14.8	7.3 6.0 14.6	7.1 5.9 14.4	7.0 5.8 14.2	7.0 5.8 14.3	6.9 5.7 14.2	6.9 5.7 14.0	6.9 5.7 14.0	6.8 5.7 13.8	6.8 5.7 13.6	6.7 5.6 13.3	6.7 5.6 13.1	6.5 5.5 12.7	6.4 5.4 12.4	6.2 5.3 12.0	6.1 5.2 11.6	6.0 5.1 11.2
Delaware All Races White Black	7.9 5.9 14.4	8.1+ 5.7 15.8	8.4+ 6.2 15.9	9.0+ 6.6 17.1+	9.2+ 6.9+ 16.7+	9.1+ 6.9+ 16.7+	9.3+ 7.3+ 16.1	9.3+ 6.9+ 17.1+	8.8+ 6.5+ 16.1+	8.6+ 6.4 15.7+	8.4+ 6.2 15.3	8.3+ 5.7 15.6+	8.0+ 5.8 14.2	8.1+ 5.8 13.8	8.1+ 5.5 14.4+	7.7+ 5.1 13.4	7.5 5.4 12.1
Kent All Races White Black	9.0 7.1 15.9	8.4 6.3 15.7	8.6 7.0 14.3	8.7 6.9 15.2	9.9 9.5 12.7	9.5 8.6 13.4	10.2 9.2 13.9	10.0 7.6 17.0	9.1 7.0 14.9	7.1 4.4 13.6	7.1 4.6 13.2	7.1 4.3 14.0	6.5 5.1 10.2	6.9 5.9 9.4	7.6 6.3 11.5	6.6 5.7 9.2	6.2 6.2 6.7
New Castle All Races White Black	7.3 4.8 15.1	7.9 4.9 17.4	8.5 5.6 17.7	9.1 6.2 18.2	9.2 6.4 18.0	9.5 6.8 18.0	9.4 7.3 16.5	9.4 7.1 16.7	9.2 6.8 16.3	9.2 7.0 16.3	9.0 6.9 15.7	9.0 6.4 16.1	8.8 6.1 15.8	9.1 6.2 15.6	9.3 5.9 16.1	8.8 5.4 15.3	8.7 5.7 14.3
Wilmington All Races White Black	12.8 16.8	13.7 18.0	14.4 18.7	14.0 18.0	13.5 17.9	13.5 17.6	12.4 15.9	12.8 17.0	12.3 16.3	13.0 17.3	13.0 16.3	13.8 18.0	14.1 18.0	14.8 19.1	16.1 9.8 19.3	15.9 20.3	15.8 10.1 19.2
Balance of NC County All Races White Black	6.0 4.7 13.6	6.7 4.8 16.8	7.2 5.4 16.8	8.1 6.1 18.5	8.3 6.4 18.1	8.6 6.8 18.2	8.8 7.3 17.0	8.7 7.2 16.6	8.5 6.9 16.3	8.5 7.0 15.8	8.2 6.8 15.3	8.0 6.4 14.9	7.7 6.0 14.5	7.9 6.0 13.8	7.9 5.5 14.4	7.5 5.1 13.0	7.3 5.2 12.2
Sussex All Races White Black	9.5 8.9 10.4	8.5 8.0 9.9	8.1 7.5 10.4	9.0 7.6 14.4	8.3 6.5 15.9	7.4 5.5 15.4	8.1 5.9 16.9	8.2 5.5 19.0	7.5 5.1 16.9	7.9 6.2 15.7	7.6 5.7 16.0	7.2 5.2 15.6	7.0 5.6 12.6	6.2 5.0 11.2	5.2 3.6 11.1	5.4 3.8 10.7	5.1 4.0 9.5

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.

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

Figure E-1
Five-Year Average Infant Mortality Rates by Race
Delaware, 1990-2014

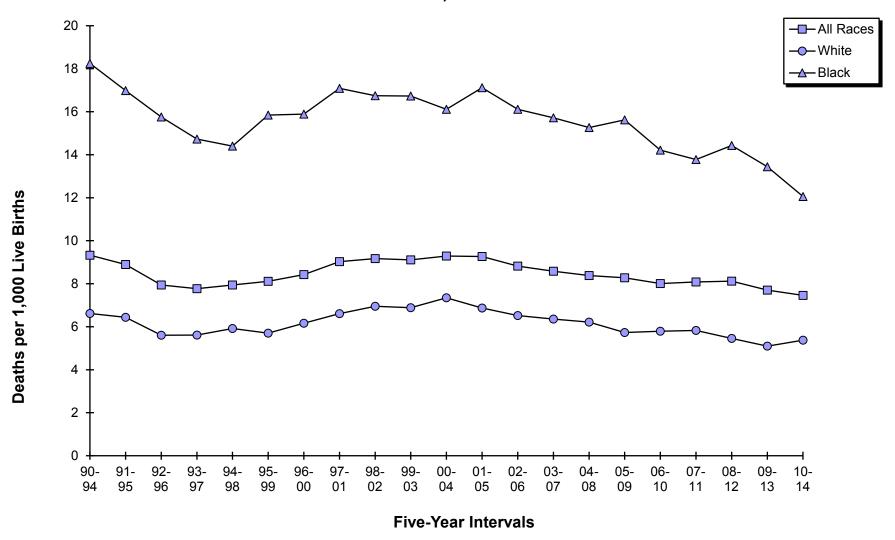


Figure E-2
Five-Year Average Infant Mortality Rates by Race

Delaware, Counties and the City of Wilmington, 2010-2014

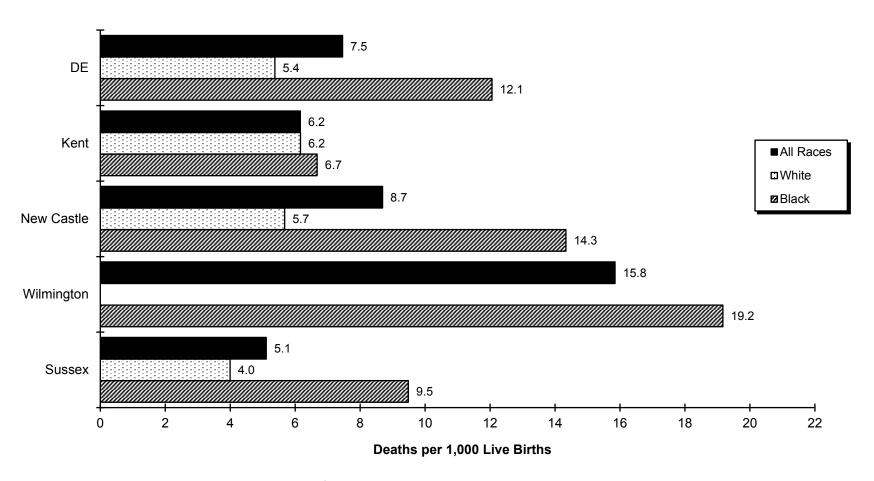


TABLE E-5 FIVE-YEAR AVERAGE NEONATAL MORTALITY RATES BY RACE

U.S., DELAWARE, COUNTIES AND CITY OF WILMINGTON, 1994-2014

Area/	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Race	-1998	-1999	-2000	-2001	-2002	-2003	-2004	-2005	-2006	-2007	-2008	-2009	-2010	-2011	-2012	-2013	-2014
U.S.																	
All Races	4.9	4.8	4.7	4.7	4.7	4.6	4.6	4.6	4.6	4.5	4.4	4.4	4.3	4.2	4.1	4.1	4.0
White	4.0	4.0	3.9	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.7	3.7	3.6	3.5	3.5	3.5	3.4
Black	9.7	9.6	9.5	9.5	9.5	9.5	9.3	9.2	9.1	9.0	8.7	8.6	8.3	8.0	7.7	7.5	7.4
Diack	5.1	9.0	9.5	9.5	9.5	9.5	9.5	3.2	3.1	3.0	0.7	0.0	0.5	0.0	1.1	7.5	7.4
Delaware																	
All Races	5.4	5.5+	5.9+	6.4+	6.7+	6.7+	6.7+	6.7+	6.4+	6.1+	5.9+	5.9+	5.6+	5.7+	5.8+	5.6+	5.4+
White	3.7	3.5	4.0	4.4	5.0+	5.0+	5.3+	5.0+	4.8+	4.5+	4.3	4.0	3.8	3.7	3.5	3.2	3.5
Black	10.6	11.9+	12.1+	12.8+	12.7+	12.2+	11.4+	12.2+	11.6+	11.2+	10.8+	11.4+	10.3+	10.4+	11.1+	10.5+	9.4+
Kent																	
All Races	5.4	5.5	5.9	6.1	7.2	7.0	7.2	7.0	6.0	4.3	4.6	4.7	4.4	5.0	5.6	4.8	4.4
White	3.4	3.4	4.1	4.6	7.0	6.5	6.8	5.5	4.5		2.9	2.7	3.5	4.2	4.3	3.9	4.4
Black	12.1	12.0	12.1	11.3	8.9	9.3	9.2	11.2	10.0	9.1	8.8	10.1	7.3	7.2	8.9	7.3	
New Castle																	
All Races	5.0	5.4	6.1	6.6	6.9	7.1	7.0	7.1	6.9	6.8	6.5	6.7	6.2	6.4	6.7	6.5	6.4
White	3.1	3.0	3.7	4.3	4.5	5.0	5.3	5.3	5.1	5.0	4.8	4.6	3.9	3.8	3.7	3.3	3.5
Black	10.8	13.0	13.5	14.2	14.5	13.9	12.4	12.5	12.3	12.1	11.7	12.1	11.8	12.2	12.5	12.2	11.7
Wilmington																	
All Races	8.0	8.7	9.8	9.7	10.1	9.8	9.1	9.5	8.9	9.0	8.9	9.6	9.0	9.7	11.6	12.2	12.4
White			3.0	J.1 							0.5		5.0	J.1			
Black	10.2	11.8	12.5	12.5	13.8	13.4	12.1	13.1	12.3	12.5	11.6	12.9	12.5	13.6	14.4	15.7	14.9
Black	10.2	11.0	12.0	12.0	10.0	10.4	12.1	10.1	12.0	12.0	11.0	12.0	12.0	10.0	14.4	10.7	14.0
Balance of																	
NC County																	
All Races	4.3	4.7	5.3	6.0	6.3	6.6	6.5	6.6	6.5	6.3	6.0	6.0	5.6	5.8	5.8	5.3	5.3
White	3.1	3.0	3.6	4.2	4.6	5.1	5.4	5.5	5.2	5.2	4.8	4.7	4.0	3.9	3.5	3.1	3.0
Black	11.4	14.1	14.4	15.6	15.1	14.2	12.5	12.1	12.3	11.8	11.8	11.6	11.5	11.4	11.6	10.5	10.3
Sussex																	
All Races	6.8	6.0	5.3	5.8	5.5	4.6	5.1	5.5	5.3	5.6	5.2	4.9	4.9	4.1	3.4	3.6	3.5
White	6.2	5.5	5.0	4.9	4.5	3.6	3.8	3.7	3.9	4.6	4.3	3.7	4.1	3.3	2.2	2.4	2.9
Black	0.2	5.5	5.0	4.9	4.5	3.0	9.9	12.1	10.8	10.3	9.3	9.8	4.1	3.3	2.2	2.4	2.9
DIACK							ອ.ອ	14.1	10.0	10.3	შ.პ	5.0					

1. 2006-2010 U.S. data are based on NCHS estimates.

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

Sources:

National Center for Health Statistics

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

Figure E-3
Five-Year Average Neonatal Mortality Rates by Race
Delaware, 1990-2014

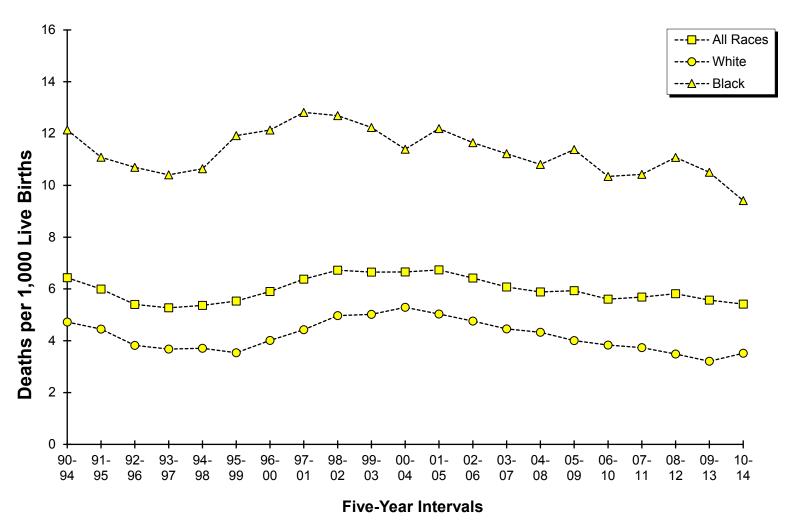


TABLE E-6 FIVE-YEAR AVERAGE POSTNEONATAL MORTALITY RATES BY RACE

U.S., DELAWARE, COUNTIES AND CITY OF WILMINGTON, 1994-2014

Area/	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Race	-1998	-1999	-2000	-2001	-2002	-2003	-2004	-2005	-2006	-2007	-2008	-2009	-2010	-2011	-2012	-2013	-2014
U.S. All Races White Black	2.6 2.1 5.1	2.5 2.0 5.0	2.4 2.0 4.8	2.4 1.9 4.8	2.3 1.9 4.8	2.3 1.9 4.7	2.3 1.9 4.8	2.3 1.9 4.8	2.3 1.9 4.7	2.3 1.9 4.6	2.3 1.9 4.6	2.3 1.9 4.5	2.2 1.9 4.4	2.2 1.8 4.4	2.1 1.8 4.2	2.0 1.7 4.0	2.0 1.7 3.9
Delaware All Races White Black	2.6 2.2 3.8-	2.6 2.2 3.9	2.5 2.2 3.8	2.6 2.2 4.3	2.4 2.0 4.1	2.5 1.9 4.5	2.6 2.1 4.7	2.5 1.8 4.9	2.4 1.8 4.5	2.5 1.9 4.5	2.5 1.9 4.5	2.3 1.7 4.2	2.4 2.0 3.9	2.4 2.1 3.3-	2.3 2.0 3.3	2.1 1.9 2.9-	2.0 1.9 2.7-
Kent All Races White Black	3.6 3.7 	3.0 	2.7 2.9 	2.7 	2.7 	2.6 	2.9 	3.0	3.1 	2.8 	2.6 	2.3 	2.0 	1.9 	2.1 	1.8 	
New Castle All Races White Black	2.3 1.7 4.3	2.5 1.9 4.4	2.4 1.8 4.2	2.5 2.0 4.0	2.2 1.8 3.5	2.3 1.8 4.1	2.4 1.9 4.2	2.3 1.8 4.2	2.3 1.7 4.0	2.5 2.0 4.3	2.5 2.1 4.0	2.3 1.9 4.0	2.6 2.3 3.9	2.7 2.4 3.5	2.5 2.2 3.5	2.4 2.1 3.2	2.3 2.2 2.6
Wilmington All Races White Black	4.8 6.6	5.0 6.3	4.6 6.2	4.3 5.5	3.4 	3.7 	3.3 	3.3 	3.4 	4.0 	4.1 	4.2 5.1	5.1 5.5	5.2 5.5	4.6 	3.7 	
Balance of NC County All Races White Black	1.7 1.6 	1.9 1.8 	1.9 1.8 	2.1 1.9 	2.0 1.8 	2.0 1.6 4.0	2.3 1.9 4.4	2.1 1.7 4.4	2.0 1.6 4.0	2.2 1.9 4.0	2.1 2.0 3.5	1.9 1.7 3.3	2.1 2.0 3.1	2.1 2.1 	2.1 2.0 	2.1 2.0 	2.1 2.2
Sussex All Races White Black	2.7 	2.5 	2.8 	3.3 	2.9 	2.8 	3.0 	2.7 	2.2 	2.3 	2.4 	2.3 	2.2 	2.1 	1.8 	1.8 	

Notes:

1. 2006-2010 U.S. data are based on NCHS estimates.

2. Postneonatal mortality rates represent the number of deaths of children 28 to 364 days of age per 1000 live births. 3. '-' indicates that the Delaware rate is significantly lower than the U.S. rate.

Sources:

National Center for Health Statistics

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

^{4. &}quot;---" 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.

Figure E-4
Five-Year Average Postneonatal Mortality Rates by Race
Delaware, 1990-2014

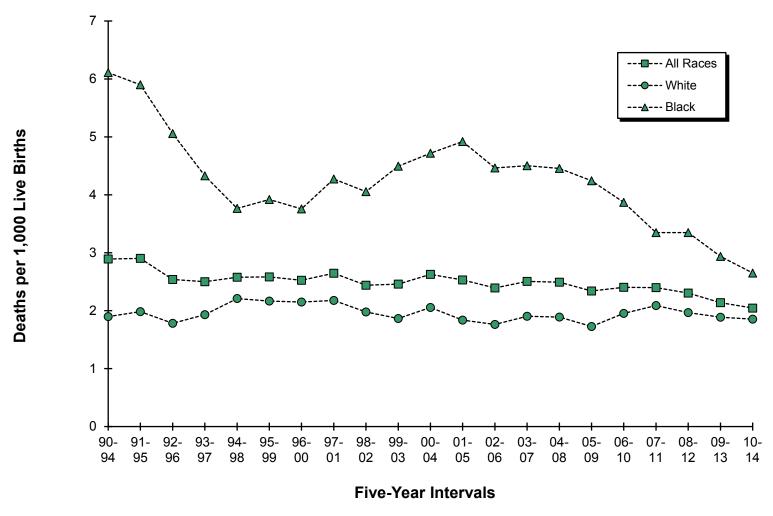


TABLE E-7 FIVE-YEAR AVERAGE INFANT MORTALITY RATES BY SELECTED RISK MARKERS AND RACE OF MOTHER

DELAWARE, 2009-2013 LIVE BIRTH COHORT

Risk		Race	
Factor	All Races	White	Black
Birth Weight of Child <2500 <1500 1500-2499 2500+	64.6 258.6 13.8 2.2	50.1 216.6 15.4 2.3	83.1 295.4 2.5
Age of Mother <20 20-24 25-29 30+	9.6 8.3 7.2 7.0	8.1 6.2 5.3 5.0	11.5 11.7 12.5 14.9
Marital Status of Mother Married Single	5.5 9.9	4.7 6.9	10.2 13.9
Education of Mother <12 years H.S. diploma 1+ years college	7.1 11.3 5.7	5.4 7.8 4.6	11.7 16.5 9.6
Interval Since Last Live Birth <18 months 18+ months	9.5 5.1	 4.3	14.1 7.5

Notes:

COHRATES

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, 2009-2013 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	103	0	2	1	106	97.2	97.2
Congenital malformations, deformations, and chromosomal abnormalities	7	23	34	0	64	10.9	46.9
Sudden infant death syndrome	2	8	34	0	44	4.5	22.7
Newborn affected by maternal complications of pregnancy	42	0	0	0	42	100.0	100.0
Newborn affected by complications of placenta, cord, and membranes	20	1	0	0	21	95.2	100.0
Diseases of the circulatory system	1	3	9	0	13	7.7	30.8
Respiratory distress of newborn	12	1	2	0	15	80.0	86.7
Atelectasis	3	0	0	0	3	100.0	100.0
Accidents (unintentional injuries)	1	0	6	0	7	14.3	14.3
Bacterial sepsis of newborn	5	0	2	0	7	71.4	71.4
Intrauterine hypoxia and birth asphyxia	5	0	2	1	8	62.5	62.5
Neonatal hemorrhage	3	0	0	0	3	100.0	100.0
Septicemia	2	0	1	0	3	66.7	66.7
Diarrhea and gastroenteritis of infectious origin	7	0	1	0	8	87.5	87.5
Gastritis, duodenitis, and noninfective enteritis and colitis	0	1	0	0	1	0.0	100.0
Newborn affected by other complications of labor and delivery	4	0	0	0	4	100.0	100.0
Renal failure and other disorders of kidney	1	0	0	0	1	100.0	100.0
period	2	0	0	0	2	100.0	100.0
Necrotizing enterocolitis of newborn	2	0	0	0	2	100.0	100.0
Assault (homicide)	0	0	4	0	4	0.0	0.0
All other causes	26	10	27	1	64	40.6	56.3
TOTAL	248	47	124	3	422	58.8	69.9

INFLCOD

- Notes:

 1. Leading causes of infant death are categorized using NCHS rankable causes of infant death, specific ICD-10 codes are shown in Appendix D.

 2. Very preterm is defined as less than 32 weeks of gestation.

 3. Moderately preterm is defined as between 32 and 36 weeks of gestation.

 4. Term is defined as 37 and greater weeks of gestation.

 5. The percent born preterm includes both the very preterm and moderately preterm groups.

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

DELAWARE LIVE BIRTH COHORT, 1994-2013

Parameter/	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Race	-1998	-1999	-2000	-2001	-2002	-2003	-2004	-2005	-2006	-2007	-2008	-2009	-2010	-2011	-2012	-2013
		I					ык	THWEIGH								
2500+ All Races White Black	2.5 2.4 2.8	2.4 2.4 2.8	2.4 2.3 2.8	2.5 2.4 3.0	2.3 2.1 3.0	2.4 2.0 3.6	2.5 2.1 3.9	2.2 1.9 3.5	2.2 1.7 3.6	2.3 1.9 3.5	2.0 1.8 2.9	1.9 1.7 2.8	2.2 2.1 2.7	2.2 2.3 2.3	2.2 2.2 2.5	2.2 2.3 2.5
<2500 All Races White Black	64.8 55.4 78.8	66.5 53.9 86.0	69.5 55.9 88.2	75.2 63.2 93.7	76.4 68.7 90.5	74.2 67.4 88.3	73.1 68.8 83.0	74.5 68.4 88.0	69.9 64.3 80.9	68.8 60.8 82.2	69.2 60.0 83.9	70.6 58.5 89.5	65.5 55.6 81.6	67.1 54.9 85.9	68.2 52.8 89.1	64.6 50.1 83.1
<1500 All Races White Black	258.5 223.2 296.8	262.7 219.3 315.8	270.9 231.5 312.1	304.8 281.9 329.8	316.2 303.4 335.5	302.4 297.2 317.0	306.2 316.8 301.5	313.9 321.2 315.7	289.4 295.3 289.4	285.8 289.0 286.0	286.8 280.2 291.9	279.3 262.0 298.9	260.8 242.2 283.9	264.7 233.3 295.1	267.6 222.0 309.2	258.6 216.6 295.4
							GE	STATION								
37+ weeks All Races White Black	2.6 2.6 2.8	2.6 2.6 2.7	2.5 2.4 2.8	2.5 2.3 3.1	2.3 2.1 2.9	2.3 1.9 3.7	2.4 2.0 4.0	2.2 1.7 3.4	2.2 1.8 3.4	2.3 1.9 3.4	2.0 1.8 2.9	2.0 1.8 2.7	2.4 2.4 2.8	2.6 2.7 2.7	2.6 2.7 2.8	2.5 2.6 2.7
<37 weeks All Races White Black	45.6 35.4 64.1	45.9 33.6 69.6	48.2 35.7 70.5	53.0 41.8 73.5	54.3 45.5 72.5	52.8 45.1 70.5	52.6 46.5 67.7	53.5 45.2 72.7	49.1 40.5 68.2	47.1 37.5 66.9	47.0 36.2 68.3	47.3 34.9 71.1	43.6 33.0 64.0	44.3 32.3 66.3	45.5 30.9 69.7	44.0 30.3 65.4
<32 weeks All Races White Black	199.8 179.4 222.2	201.3 174.0 235.6	214.9 191.5 238.7	238.1 228.4 250.4	249.6 249.2 255.4	238.7 238.2 246.3	239.4 244.0 239.8	249.1 248.3 259.4	232.4 223.0 250.0	220.4 202.7 246.4	220.4 193.2 255.2	216.9 184.8 258.8	195.0 159.9 237.4	195.7 153.0 240.9	198.7 144.2 250.4	190.8 140.1 234.6
		•					PL	URALITY								
Single All Races White Black	6.7 5.1 11.5	6.8 5.1 12.2	6.9 4.9 12.9	7.3 5.2 13.4	7.3 5.4 13.4	7.3 5.2 13.8	7.5 5.6 13.5	7.4 5.4 13.6	7.1 5.1 13.0	7.2 5.2 12.8	7.0 5.2 12.2	7.0 4.9 12.7	7.0 5.4 11.8	7.0 5.4 11.6	6.9 5.1 11.7	6.7 4.9 11.3
Plural All Races White Black	39.3 30.4 68.7	41.6 28.6 84.6	45.4 35.1 73.0	53.1 43.4 80.7	52.9 48.0 68.5	52.3 50.3 60.8	50.3 49.2 54.1	52.0 49.9 64.6	47.0 44.0 59.1	44.0 36.6 63.5	40.3 29.6 67.7	41.0 30.6 69.5	32.6 23.0 54.4	34.2 23.5 55.5	35.0 23.2 60.4	34.5 25.6 50.4
						SM	OKING DU	IRING PR	GNANCY							
No All Races White Black	7.1 5.2 12.7	7.4 5.3 14.0	7.6 5.3 14.3	8.1 5.7 15.3	8.0 5.8 14.8	8.2 5.9 15.0	8.2 6.2 14.3	8.2 6.1 14.7	7.9 6.0 13.7	7.7 5.7 13.4	7.4 5.4 13.2	7.6 5.3 13.9	7.4 5.6 12.9	7.4 5.5 12.9	7.4 5.4 13.2	7.2 5.2 12.3
Yes All Races White Black	10.6 9.4 15.3	10.6 9.3 16.3	11.3 9.8 17.3	13.4 12.2 18.0	15.1 14.2 18.9	14.1 12.7 19.4	14.8 13.3 19.5	15.1 13.0 22.0	13.4 10.2 23.9	13.9 10.7 23.8	13.3 10.7 21.2	12.1 8.9 21.5	10.7 8.2 17.5	10.8 8.9 15.8	10.0 7.6 15.9	9.7 7.2 15.7

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

DELAWARE LIVE BIRTH COHORT, 1993-2013

									,								
Parameter/	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Race	-1997	-1998	-1999	-2000	-2001	-2002	-2003	-2004	-2005	-2006	-2007	-2008	-2009	-2010	-2011	-2012	-2013
						El	DUCATIO	N									
HS Grad or less																	
All Races	9.4	9.9	10.4	10.3	11.1	11.5	11.4	11.4	11.1	10.7	10.8	10.1	10.0	10.0	10.0	9.5	9.5
White	7.2	8.0			8.4	9.1		9.1	8.7	8.3	8.4		7.6	7.7	7.6	6.7	6.7
Black	14.3				16.8	16.9	17.2	16.9	17.2	16.6	16.4		15.4	14.8		15.1	14.7
1+ yrs college																	
All Races	4.9	4.9	4.9	5.5	6.1	6.0	6.0	6.0	6.3	5.8	5.4	5.6	5.9	5.6	5.8	6.2	5.7
White	3.9	3.7			4.6	4.7		5.0		4.5	4.1	4.2	4.1	4.3		4.9	
Black	10.2	10.5	11.8	13.5	13.9	12.6	12.2	11.0	12.0	11.1	10.9	11.4	13.1	11.2	10.8	11.0	9.6
						DAVMEN	T FOR D	EL IVEDV									
						PAYMEN	I FOR D	ELIVERY									
Medicaid																	
All Races	10.0	10.3	10.9	9.9	10.6	10.1	9.5	9.8	10.2	9.6	10.4	10.2	9.9	9.5	9.3	8.8	8.5
White	7.9	8.8	9.1	7.7	8.6	8.3	7.1	7.5	7.7	7.1	8.0	8.0	7.5	7.5	7.0	6.3	6.0
Black	12.9	12.7	13.6	13.1	13.8	13.0	13.3	13.7	14.7	14.0	14.4	14.1	14.1	13.0	13.3	13.3	12.8
Private Insurance																	
All Races	5.3	5.5	5.7	6.5	6.8	7.4	7.7	7.8	7.6	7.4	6.7	6.4	6.6	6.4	6.4	6.6	6.4
White	4.2	4.2				5.7	5.9	6.1	5.8	5.6	5.0			4.7	5.0	4.9	
Black	11.6					16.5	17.1	16.9	17.0	16.6	15.3			14.8	13.7	14.6	

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.

3. Primary source of payment for delivery not available prior to 1991.

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

COTREND

Figure E-5 Five-year Average Infant Mortality Rates by Race and Plurality **Delaware, 1994-2013 Live Birth Cohort**

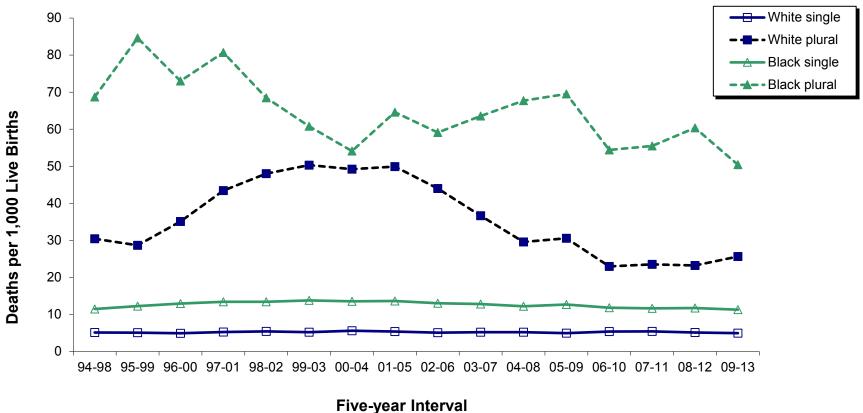
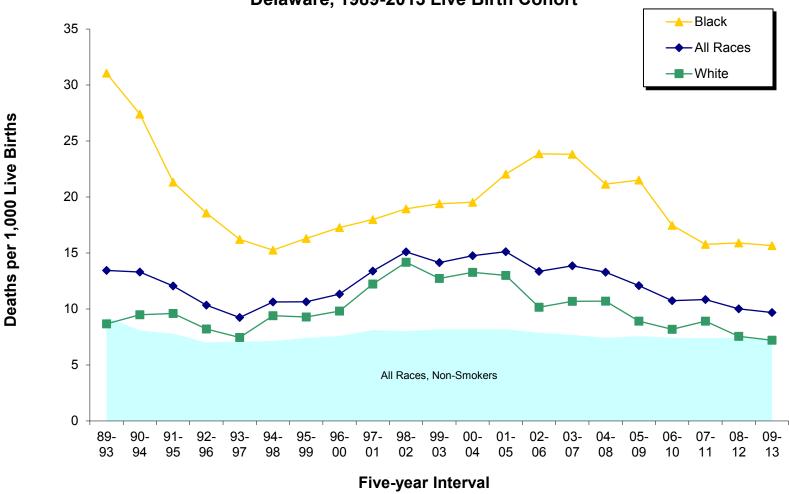


Figure E-6
Five-year Average Infant Mortality Rates by Race of Mothers who Smoked during
Pregnancy versus all Non-smoking Mothers
Delaware, 1989-2013 Live Birth Cohort



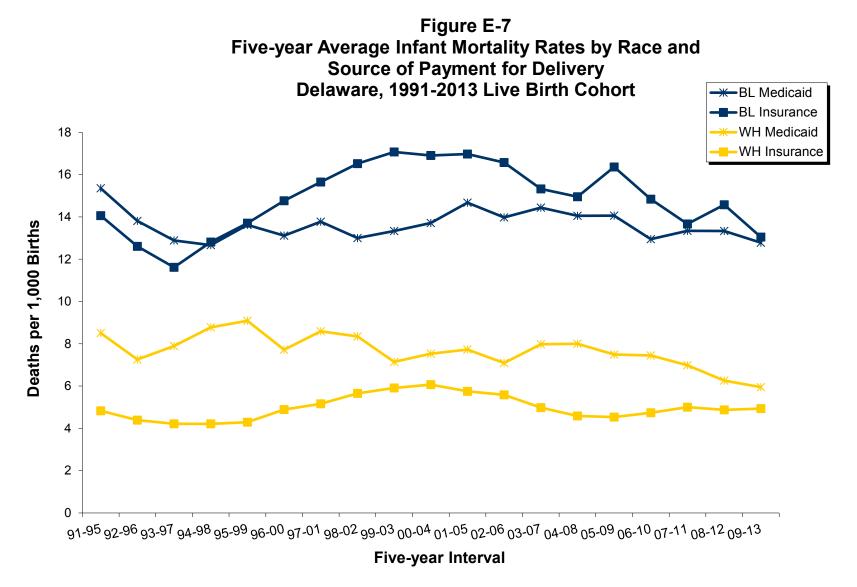


TABLE E-10 NUMBER OF INFANT DEATHS BY PLURALITY, BIRTH WEIGHT IN GRAMS, RACE OF MOTHER AND SEX OF CHILD DELAWARE, 2009-2013 LIVE BIRTH COHORT

					Ra	ace and S	Sex				
Plurality/	,	All Races	6		White			Black		Otl	her
Birth Weight	Both			Both			Both			Both	
	Sexes	Male	Female	Sexes	Male	Female	Sexes	Male	Female	Sexes	Male
All Births	422	232	190	207	106	101	197	113	84	18	13
<2500	307	180	127	126	74	52	164	94	70	17	12
<1500	255	155	100	94	59	35	148	87	61	13	9
<500	123	67	56	34	16	18	80	45	35	9	6
500-999	114	76	38	47	33	14	63	40	23	4	3
1000-1499	18	12	6	13	10	3	5	2	3	0	0
1500-1999	25	14	11	17	10	7	6	3	3	2	1
2000-2499	27	11	16	15	5	10	10	4	6	2	2
2500+	112	50	62	78	30	48	33	19	14	1	1
2500-2999	43	18	25	29	13	16	13	4	9	1	1
3000-3499	39	17	22	25	7	18	14	10	4	0	0
3500-3999	25	12	13	20	8	12	5	4	1	0	0
4000-4499	5	3	2	4	2	2	1	1	0	0	0
4500+	0	0	0	0	0	0	0	0	0	0	0
Unknown	3	2	1	3	2	1	0	0	0	0	0
Single Births	358	197	161	177	89	88	166	97	69	15	11
<2500	250	147	101	102	59	43	134	78	56	14	10
<1500	201	124	77	72	46	26	119	71	48	10	7
<500	97	52	45	28	13	15	63	35	28	6	4
500-999	91	64	27	36	27	9	51	34	17	4	3
1000-1499	13	8	5	8	6	2	5	2	3	0	0
1500-1999	24	13	11	16	9	7	6	3	3	2	1
2000-2499	25	10	15	14	4	10	9	4	5	2	2
2500+	105	48	57	72	28	44	32	19	13	1	1
2500-2999	40	17	23	27	12	15	12	4	8	1	1
3000-3499	36	16	20	22	6	16	14	10	4	0	0
3500-3999	24	12	12	19	8	11	5	4	1	0	0
4000-4499	5	3	2	4	2	2	1	1	0	0	0
4500+ Unknown	0	0 2	0 1	0	0 2	0	0	0	0	0	0
OTIKITOWIT	3	2	'	3	2		U	U	U	U	U
Plural Births	64	35	29	30	17	13	31	16	15	3	2
<2500	57	33	24	24	15	9	30	16	14	3	2
<1500	54	31	23	22	13	9	29	16	13	3	2
<500	26	15	11	6	3	3	17	10	7	3	2
500-999	23	12	11	11	6	5	12	6	6	0	0
1000-1499	5	4	1	5	4	1	0	0	0	0	0
1500-1999	1	1	0	1	1	0	0	0	0	0	0
2000-2499	2 7	1	1	1	1	0	1	0	1	0	0
2500+ 2500-2999		2	5 2	6 2	2	4	1	0	1	0	0
3000-3499	3	1	2	3	1	2	0	0	0	0	0
3500-3499	1	0	1	1	0	1	0	0	0	0	0
4000-4499	0	0	0	0	0	0	0	0	0	0	0
4500+	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0
L											LBWRCSX

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

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

PLBWRCSX

TABLE E-11

NUMBER OF NEONATAL DEATHS BY PLURALITY, BIRTH WEIGHT IN GRAMS, RACE OF MOTHER AND SEX OF CHILD

DELAWARE, 2009-2013 LIVE BIRTH COHORT

					Ra	ace and S	Sex				
Plurality/		All Races	3		White			Black		Ot	her
Birth Weight	Both			Both			Both			Both	
	Sexes	Male	Female	Sexes	Male	Female	Sexes	Male	Female	Sexes	Male
All Births	306	182	124	128	73	55	160	96	64	18	13
<2500	265	157	108	101	59	42	147	86	61	17	12
<1500	236	143	93	85	52	33	138	82	56	13	9
<500	123	67	56	34	16	18	80	45	35	9	6
500-999	99	66	33	40	27	13	55	36	19	4	3
1000-1499	14	10	4	11	9	2	3	1	2	0	0
1500-1999	15	9	6	8	5	3	5	3	2	2	1
2000-2499	14	5	9	8	2	6	4	1	3	2	2
2500+	39	23	16	25	12	13	13	10	3	_ 1	1
2500-2999	16	11	5	11	7	4	4	3	1	1	1
3000-3499	12	5	7	6	1	5	6	4	2	0	0
3500-3999	8	6	2	5	3	2	3	3	0	0	0
4000-4499	3	1	2	3	1	2	0	0	0	0	0
4500+	0	0	0	0	0	0	0	0	0	0	0
Unknown	2	2	0	2	2	0	0	0	0	0	0
Single Births	250	150	100	103	59	44	132	80	52	15	11
<2500	213	127	86	80	47	33	119	70	49	14	10
<1500	184	113	71	64	40	24	110	66	44	10	7
<500 500-999	97 77	52 54	45	28	13 21	15	63	35 30	28 14	6 4	4
1000-999	10	7	23 3	29 7	6	8 1	44 3	1	2	0	0
1500-1499	15	9	6	8	5	3	5 5	3	2	2	1
2000-2499	14	5	9	8	2	6	4	1	3	2	2
2500+	35	21	14	21	10	11	13	10	3	1	1
2500-2999	15	10	5	10	6	4	4	3	1		1
3000-3499	9	4	5	3	0	3	6	4	2	0	0
3500-3999	8	6	2	5	3	2	3	3	0	0	0
4000-4499	3	1	2	3	1	2	0	0	0	0	0
4500+	0	0	0	0	0	0	0	0	0	0	0
Unknown	2	2	0	2	2	0	0	0	0	0	0
Plural Births	56	32	24	25	14	11	28	16	12	2	2
<2500	52	30	22	25 21	14 12	9	26 28	16	12	3	2
<1500	52	30	22	21	12	9	28	16	12	3	2
<500	26	15	11	6	3	3	17	10	7	3	2
500-999	22	12	10	11	6	5	11	6	5	0	0
1000-1499	4	3	1	4	3	1	0	0	0	0	0
1500-1999	0	0	0	0	0	0	0	0	0	0	0
2000-2499	0	0	0	0	0	0	0	0	0	0	0
2500+	4	2	2	4	2	2	0	0	0	0	0
2500-2999	1	1	0	1	1	0	0	0	0	0	0
3000-3499	3	1	2	3	1	2	0	0	0	0	0
3500-3999	0	0	0	0	0	0	0	0	0	0	0
4000-4499	0	0	0	0	0	0	0	0	0	0	0
4500+	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0 NEOPLBW

Note:

NEOPLBW

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