INDIANA INFANT MORTALITY REPORT

1990-2006

Statistics from the Period Linked Birth/Infant Death Data Set

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Preface

The *Indiana Infant Mortality Report: 1990-2006* presents infant mortality statistics from the period linked birth/infant death data sets (linked files) by a variety of infant and maternal characteristics. For each year during 1990-2006, the information from the death certificate of each infant (less than one year of age) who was an Indiana resident was matched and linked to the information from the birth certificate to create the linked files. The purpose of linkage is to use the additional information available on the birth certificate to conduct a more in-depth analysis of the pattern of infant mortality. Therefore, the information provided in this report, which is derived from the birth certificates through the linked files, is different from the general vital statistics mortality reports, which are based entirely on death certificate data.

The demographic and health variables included in the analysis of infant mortality are race, Hispanic origin, plurality, sex, birth weight, gestational age, maternal age, maternal education, live birth order, marital status, prenatal care, and smoking during pregnancy. Results are reported for all races combined and for whites and blacks separately. Due to the relatively small number of births and infant deaths among Hispanics and because more than 97 percent of Hispanics are white, the detailed statistics of infant mortality at the state level are reported for Hispanics in general. In this report, the U.S. Office of Management and Budget race definition of “Black or African American” is referred to as “Black” and ethnicity definition of “Hispanic or Latino” is referred to as “Hispanic”.

The information is presented at the state level and for two major counties, Marion and Lake. Yearly infant mortality rates are reported only at the state level, because it is only at the state level that numbers of infant deaths in various categories are large enough to provide stable rates. Three-year moving averages of infant mortality rates as well as five-year comparisons of rates from 1990-1994 to 1996-2000 and 1996-2000 to 2002-2006 are presented for the state and for the counties. The statistical analysis was performed only for comparing the five-year rates. In certain instances, the change in five-year rates was not statistically significant despite a noticeable difference in rates, mainly due to the small number of deaths in those categories.

Information on the methods used for statistical significance, on random variation and stability of rates, as well as detailed information on differences between the linked files and the vital statistics mortality files are presented in the Technical Notes. Additional information on race and Hispanic origin, birth weight and gestational age, maternal education, and on prenatal care utilization is also provided in the Technical Notes. The yearly number of infant deaths and births

by various characteristics used in calculating the infant mortality rates are presented in the Appendices.

The descriptive statistics presented here are useful in understanding the basic relationships between the individual risk factors and infant mortality. The infant mortality rates are reported according to a specific maternal or infant characteristic and are unadjusted for the possible effects of other risk factors that are often present simultaneously. The preferred method for a better understanding of the interrelationship of multiple risk factors for infant mortality is multivariate analysis. The goal of this report, however, is to provide a basic understanding of the relationships of various risk factors to infant mortality.

Infant Mortality in Indiana

1990-2006

Highlights

Trends in infant mortality

- The overall infant mortality rate in Indiana in 2006 (from the linked file) was 7.7 deaths per 1,000 live births, lower than the rate in 2005 (7.9), similar to the rate in 2004, and higher than the rates from 2000 to 2003.
  (Table 1, Figure 1)

- Although the infant mortality rate in 2006 was 19 percent lower than the rate in 1990 (9.5), almost the entire decline occurred during the 1990's. Between 1990 and 1999, the infant mortality rate (IMR) in Indiana declined by 18 percent to 7.8 deaths per 1,000 live births, whereas between 1999 and 2006, IMR remained at similar levels and fluctuated between 7.3 and 7.9 deaths per 1,000 live births. Infant mortality rates in Indiana have been consistently higher compared to the rates at national level.
  (Table 1, Figure 1)

Race and Hispanic origin

- IMR among infants born to black mothers has been noticeably higher compared to that among infants born to white mothers, and the wide racial gap has persisted throughout the 1990-2006 period. In 2006, the IMR among non-Hispanic blacks was 17.2 deaths per 1,000 live births, the highest rate since 1994, and more than double the rate of 6.6 among non-Hispanic whites and triple the rate of 5.2 among Hispanics.
  (Table 1, Figure 2)

Age at death

- The majority of infant deaths occurred during the neonatal period (<28 days). Of 685 infant deaths in 2006, 424 (62 percent) occurred in the neonatal period and 333 (49 Percent) occurred in early neonatal period (less than 7 days). Both neonatal and postneonatal (28-364 days) mortality rates declined during the 1990's but not thereafter.
  (Table 1, Figure 3)

- Wide and continual racial gap exists in both neonatal and postneonatal mortality rates. The upward trend in neonatal (but not postneonatal) mortality rates among blacks since 2000 explains the overall increase in IMR among blacks in recent years.
  (Table 1, Table 7, Figure 2, Figure 4, Figure 5)

- Between the two periods of 1990-1994 and 1996-2000, the neonatal mortality rates declined significantly among all (by 9.0 percent), as well as among non-Hispanic whites (by 7.2%) and blacks (by 16.1%), whereas post-neonatal mortality rates declined significantly among non-Hispanic whites (by 21.1%) but not blacks. In contrast, between 1996-2000 and 2002-2006, there were no significant changes in infant, neonatal, or post-neonatal mortality rates in any of the above races or Hispanic origins.
  (Table 15, Figure 6, Figure 7)

Sex of infant

- The IMR for both female and male infants declined during the 1990's. The male infants, however, had a consistently higher IMR than female infants among all races combined, as well as among whites, blacks, and Hispanics.
  (Table 9-13, Figure 8, Figure 9)

Multiple births

- For the three-year period 2004-2006, the IMR of multiple births was 33.7 deaths per 1,000 live births, almost five times the rate of 6.8 for singleton births. There was a downward trend in IMR for both singleton and multiple births during the 1990's but not afterwards.
  (Table 9, Figure 10)

- The IMR of singleton and multiple births declined among both whites and blacks. The racial gap in IMR, however, continued to exist throughout the 1990-2006 period among both singleton and multiple births.
  (Tables 10-11, Figures 11-12)

- For the five-year period of 2002-2006, the IMR of Hispanic singleton births was 5.5 deaths per 1,000 live births, slightly lower than the rate among non-Hispanic white singletons (5.9), whereas the IMR of Hispanic multiple births was 42.8 deaths per 1,000 live births, 41 percent higher than the rate of 30.4 among non-Hispanic whites.
  (Tables 19-20, Figure 12)

- The higher infant mortality rate of multiple births has a considerable impact on overall infant mortality. In 2006, multiple births accounted for 3.3 percent of all live births and 12.7 percent of all infant deaths in Indiana.

Birth weight and gestational age

- In 2006, the IMR of low birth weight (LBW) infants (<2,500 grams) was 60.2 deaths per 1,000 live births, more than 22 times the rate of 2.7 for normal birth weight (NBW) infants (≥2,500 grams). The IMR of very low birth weight (VLBW) infants (<1,500 grams) was 266.7 deaths per 1,000 births, more than 95 times the rate for NBW infants.
  (Table 2, Figure 13)

- There has been a significant downward trend in mortality rates of LBW and VLBW infants during the 1990's for both non-Hispanic whites and blacks. From late 1990's (1996-2000) to recent years (2002-2006), however, the mortality rates of LBW infants declined slightly for non-Hispanic whites and increased to some extent for non-Hispanic black infants (not statistically significant). The significant decline in mortality rates of NBW infants (weighing more than 2,500 grams) during the 1990's leveled off in recent years for non-Hispanic whites but continued to decline for non-Hispanic blacks.
  (Tables 10-14, Tables 17-21, Figures 14-19)

- In 2006, the mortality rate of very preterm infants (<32 weeks of gestation) was 191.9 deaths per 1000 live births, 64 times the rate of 3.0 for term infants (≥37 weeks of gestation); the mortality rate of moderately preterm infants (32-36 weeks of gestation) was 9.4, more than 3 times the mortality rate of term infants.
  (Table 2, Figure 20)

- Mortality rate of preterm infants declined during the 1990's for both whites and blacks, thereafter, the rates continued to decline for whites but followed an upward trend for blacks. Conversely, the mortality rates of term infants continued to decline into 2000's among blacks but not among whites.
  (Tables 12-14, Tables 19-21, Figures 21-22)

- Mortality rates of Hispanic infants in various birth weight gestational age categories followed a pattern similar to that of non-Hispanic whites but the changes in rates over time did not reach statistical significance due to small number of deaths.
  (Tables 12-14, Tables 19-21, Figures 21-22)

- Infants born to black mothers had a consistently higher IMR than infants born to white mothers across all birth weight and gestational age categories. In recent years, the racial gap in IMR has widened for LBW and preterm infants, whereas for NBW and for term infants, the racial gap in IMR has narrowed.
  (Tables 10-14, Tables 17-21, Figures 14-19, 21-22)

- Infants born very low birth weight or very preterm have a major impact on overall infant mortality rate. For example, in 2006, only 2 percent of infants were born very preterm (<32 weeks) but they accounted for one-half (51 percent) of all infant deaths in Indiana. (Data extrapolated from Table A-2)

- Despite the decline in the IMR of LBW and preterm infants between 1990 and 2006, the prevalence of preterm and low birth weight births has not improved during this period. In fact, between 1990 and 2006, the prevalence of preterm births increased by 40 percent among non-Hispanic whites (from 9.0 to 12.6 percent), remained at the same high level among non-Hispanic blacks (19.0 percent), and increased slightly among Hispanics (from 11.5 to 13.3 percent). (Data extrapolated from Table A-3, Table A-4, and Table A-6, Figure 23)

Maternal age

- Infant mortality rates varied with maternal age. Among all races combined and among whites, infants of teenage mothers (<20 years of age) had the highest infant mortality rates whereas infants of mothers in their late twenties and early thirties had the lowest rates. For infants born to black mothers, however, mortality rates did not follow any specific pattern with maternal age. There was a distinct gap between the IMR of teenage and adult mothers for whites but not for blacks.
(Tables 9-11, Figure 24-25)

- Infant mortality rates of teenage and adult mothers had a downward trend during the 1990's (for both whites and blacks) but not in recent years.
(Tables 9-11, Tables 16-18, Figure 25)

- Racial disparity in IMR was evident across all age categories but existed to a greater extent among mothers 25 years of age and older. In the 2002-2006 period, IMR among teenage non-Hispanic blacks (13.9) was 35 percent higher than the rate for teenage non-Hispanic whites (10.3), whereas among mothers 25-29 years of age, IMR for non-Hispanic blacks (16.1) was 188 percent higher than the rate for non-Hispanic whites (5.6).
(Tables 19-21, Figure 26)

- Compared to infants of non-Hispanic white mothers, mortality rates for infants of Hispanic mothers were lower among mothers younger than 25 years of age and similar or higher for infants of older mothers.
(Tables 19-21, Figure 26)

Maternal education

- In general, IMR decreased as the maternal educational level increased, but this pattern was more noticeable for non-Hispanic whites than for blacks. In the 2002-2006 period, the IMR for adult mothers who had more than 12 years of education was lower than the rate for adult mothers who had less than 12 years of education by 52 percent among non-Hispanic whites, by 15 percent among non-Hispanic blacks, and by 19 percent among Hispanics.
(Tables 12-14, Tables 19-21, Figures 27-28)

- Racial disparity in IMR existed along all levels of maternal education but was more prominent among more educated mothers. In 2002-2006, the mortality rate for infants of adult non-Hispanic black mothers was higher than their non-Hispanic white counterparts by 85 percent for those with less than 12 years of education and by 226 percent for those with more than 12 years of education. (Tables 19-21, Figures 29-30)

- Compared to infants of non-Hispanic white mothers, the mortality rate of Hispanic infants was considerably lower for mothers without a high school diploma but comparable for mothers with more than high school education.

Marital status

- Throughout the 1990-2006 period, mortality rates were higher for infants of unmarried mothers than for infants of married mothers, and the rates declined in both groups throughout the 1990's.
(Table 9, Figure 31)

- The disparity in IMR by marital status was most noticeable for non-Hispanic whites than for non-Hispanic blacks and was not evident for Hispanics. Racial disparity in IMR existed regardless of marital status but was wider for infants of married mothers than for infants of unmarried mothers.
(Tables 19-21, Figure 32)

Prenatal care

- Among mothers who received prenatal care, those who received adequate plus or intensive care had the highest IMR followed by those who received inadequate prenatal care. Mothers who received adequate prenatal care had the lowest IMR regardless of race and Hispanic origin.
(Table 16, Figure 33)

- In 2002-2006, the IMR for mothers who received no prenatal care (40.7) or for whom adequacy of care was unknown (42.9) were more than 10 times the rate of those who received adequate care (3.7). In 2006, infants whose mothers received no prenatal care or had unknown level of care comprised 19 percent of all infant deaths in contrast to 4 percent of all live births.
(Table 16)

- The gap in IMR between mothers who received inadequate versus adequate care was wider among non-Hispanic whites than among blacks or Hispanics. In 2002-2006, the mortality rate of infants born to mothers who received inadequate prenatal care was higher than the mortality rate of infants born to mothers who had adequate care by 106 percent among non-Hispanic whites (7.0 vs. 3.4), by

27 percent among blacks (9.9 vs. 7.8), and by 37 percent among Hispanics (3.7 vs. 2.7).
(Tables 19-21, Figure 33)

Maternal smoking

- The infant mortality rate for infants of smokers was 10.2 in 2006, 44 percent higher than the rate of 7.1 for non-smokers. The IMR declined among non-smokers and to a lesser extent among smokers during the 1990's but not afterwards.
  (Table 2, Table 9, Table 16, Figure 34)

Ethnic disparity

- The overall IMR of Hispanics was similar to non-Hispanic whites. However, for those with one or more potential demographic risk factors (mother being a teenager, without a high school diploma, or unmarried), Hispanics had a lower IMR than their non-Hispanic white counterparts. In contrast, among those with a higher risk birth, e.g., multiple births compared to singleton births, the IMR of Hispanics was higher than the IMR of non-Hispanic whites.
  (Figures 35-38)

Racial disparity

- In general, the racial disparity in IMR was present regardless of the characteristics of the mother and infant. The gap, however, was wider among those infants whose mothers were in a lower risk category compared to those in a higher risk category, e.g., mothers in their late 20s compared to teenagers, more educated compared to less educated mothers, or married mothers compared to those who were unmarried.
  (Figures 37-38)

Infant Mortality in Marion County, Indiana

1990-2006

Highlights

Trends in infant mortality

- Throughout the 1990-2006 period, infant mortality rates (IMR) in Marion County have been higher than the rates in Indiana, whereas the race-specific rates were almost the same in Marion County and in the State. This is mainly due to the fact that the proportion of blacks among live births is higher in Marion County (28.8% in 2006) than in the State (11.6% in 2006), and the overall IMR is significantly higher among blacks (16.3 in 2006 in Marion County) compared to whites (7.2 in 2006 in Marion County).
  (Table 1, Table 22, Figure 39, Figure 40)

Race and Hispanic origin

- The infant mortality rate in Marion County declined by 28.4 percent, from 11.6 deaths per 1,000 live births in 1990-1992 to 8.3 in 2001-2003, followed by an increase to 9.5 in 2004-2006. A similar trend in IMR was observed for infants born to white and to black mothers. However, the rates have been consistently and considerably higher among blacks compared to whites.
  (Table 22, Figure 39-40)

- In the five-year period of 2002-2006, the IMR among non-Hispanic blacks in Marion County was 14.9 deaths per 1,000 live births, almost double the rate of 7.6 among non-Hispanic whites and triple the rate of 5.2 among Hispanics.
  (Table 26, Figure 41)

Age at death

- The majority of infant deaths (70 percent in 2006) occurred during the neonatal period (<28 days). Between 1990-1994 and 1999-2000, the neonatal mortality rate declined only slightly (by 9.1 percent) but the postneonatal (28-364 days) mortality rate declined significantly for all races combined (by 26.5 percent) and for whites (by 25.1 percent); the 28.9 percent decline in the postneonatal mortality rate among blacks did not reach statistical significance. Between 1996-2000 and 2002-2006, there were no significant changes in infant, neonatal, or postneonatal mortality rates in Marion County.
  (Table 26, Figure 42)

Multiple births

- The mortality rate of multiple births in Marion County for the 2002-2006 period was 41.1, more than five times the rate of 8.1 for singleton births. There was a wider gap in the infant mortality rate of multiple births compared to singleton births for infants of white mothers (6.3 folds, 38.1 vs. 6.1)) than for infants of black mothers (3.7 folds, 50.1 vs. 13.5). Hence, the racial disparity was much wider among singleton than among multiple births.
  (Tables 27)

- Between the two periods of 1990-1994 and 1996-2000, infant mortality rates for singleton births in Marion County declined significantly by 14.9 percent and infant mortality rates for multiple births declined by 26 .1 percent but the difference did not reach the statistical significance. There were no significant changes in IMR between 1996-2000 and 2002-2006 for singleton or multiple births.
  (Tables 27)

Birth weight and gestational age

- Between 1990-1994 and 1996-2000, infant mortality rates in Marion County declined significantly for low birth weight (LBW, less than 2,500 grams), very low birth weight (VLBW, less than 1,500 grams), and normal birth weight (NBW, 2,500 grams or more) infants. A similar pattern is observed for infants of white and infants of black mothers with a consistently higher IMR among blacks compared to whites. There were no significant changes in the IMR of LBW, VLBW, or NBW infants between 1996-2000 and 2002-2006.
  (Tables 23-25, Tables 27-29, Figures 43-47)

- Between 1990-1994 and 1996-2000, the IMR declined for preterm (<37 weeks of gestation) births by 13.7 percent (from 56.3 to 48.6) and for term (≥37 weeks) births by 28.4 percent (from 4.6 to 3.3). There were no significant changes in the IMR of preterm or term infants between 1996-2000 and 2002-2006. Infant mortality rates of preterm and term infants born to white and to black mothers followed a similar pattern to all births during the 1990-2006 period with consistently higher rates for blacks compared to whites.
  (Tables 27-29, Figures 48-49)

Maternal age

- Between the 1990-1994 and 1996-2000 periods, mortality rates for infants of teenage mothers (<20 years of age) declined significantly by 24.9 percent (from 16.3 to 12.3) compared to a slight decline for infant of adult mothers (from 9.9 to 8.9); thereafter, IMR did not change significantly.
  (Table 27)

- Throughout the 1990 to 2006, racial disparity in IMR was wider and more persistent for infants born to adult mothers than for those born to teenage mothers. The IMR for teenage mothers was considerably higher compared to adult mothers among whites but not among blacks.
  (Tables 28-29, Figures 50-51)

Maternal education

- During the early 1990's in Marion County, the mortality rate for infants of adult mothers with less than high school education was noticeably higher than the rate for infants of mothers with 12 or more years of education among both whites and blacks. In recent years, however, the IMR among infants born to less educated mothers has declined to levels more similar to that of more educated mothers.
  (Tables 23-25, Figures 52-53)

- Despite the decline in mortality rates of infants born to less educated mothers, the magnitude of racial disparity has remained the same across all educational levels.
  (Tables 24-25, Figures 54-56)

- Between 1990-1994 and 1996-2000, the mortality rate for infants of adult mothers with less than 12 years of education dropped by 24.6 percent among whites (from 14.5 to 11.0 deaths per 1,000 live births) and by 22.7 percent among blacks (from 21.9 to 17.0), but the changes did not reach statistical significant. The downward trend in IMR among adult mothers without a high school diploma continued beyond 2000 for whites but not for blacks.
  (Tables 24-25, Figure 57)

Marital status

- Throughout the 1990-2006 period, the mortality rates were higher for infants of unmarried mothers than for infants of married mothers; however, the rates declined mainly during the 1990's and more noticeably for unmarried mothers.
  (Tables 23-25, Figures 58-60)

- Between 1990-1994 and 1996-2000, the mortality rate for infants of unmarried mothers declined significantly for both whites (by 26.2 percent) and blacks (by 21.6 percent); however, the rates were consistently higher for blacks compared to whites, regardless of marital status.
  (Tables 28-29, Figure 61)

Prenatal care

- Among mothers who received prenatal care in 2004-2006, infant mortality rates were highest for those who received adequate plus/intensive care (13.2) compared to those who had adequate (5.8), intermediate (4.6), or inadequate

(5.9) care; mortality rates of infants whose mothers had no prenatal care (48.9) or unknown prenatal care (76.0) was drastically higher than the rates of those who received adequate or intermediate care.
(Table 23)

- Between 1990-1994 and 1996-2000, mortality rates declined to a greater extent for infants of mothers who received adequate plus care or inadequate care than for infants of mothers who received adequate care; however, the magnitude of change was statistically significant only among white mothers who received adequate plus care.
(Tables 27-29, Figure 62)

Maternal smoking

- Throughout the 1990-2006 period, the mortality rates for infants born to mothers who smoked during pregnancy have been higher than the rates for who did not smoke among both whites and blacks, but the rates declined consistently and significantly only among white smokers.
(Tables 24-24, Tables 28-29, Figures 63-65)

- In general, infant mortality rates declined in Marion County for both whites and blacks and the decline occurred mainly during the 1990's. The magnitude of decline was larger among infants born to mothers in higher risk categories such as teen, less educated, unmarried mothers. The racial disparity in IMR, however, was present regardless of the characteristics of mother.

Infant Mortality in Lake County, Indiana

1990-2006

Highlights

Trends in infant mortality

- Throughout the 1990 to 2006, infant mortality rates (IMR) for Lake County have been higher than the rates for Indiana, whereas the race-specific rates have been almost the same in Lake County and in the State. This is mainly due to both a higher proportion of black live births in Lake County (32.7% in 2006) than in the State (11.6% in 2006), and a significantly higher IMR among blacks (14.6 deaths per 1,000 live births in 2006 in Lake County) compared to whites (7.9 deaths per 1,000 live births in 2006 in Lake County).
  (Table 8, Table 30, Figures 66-67)

Race and Hispanic origin

- In 2002-2006, the mortality rate for infants of non-Hispanic black mothers in Lake County was 14.8 deaths per 1,000 live births, more than double the rate of 7.0 for infants of non-Hispanic white mothers and almost double the rate of 7.6 for Hispanics.
  (Table 34, Figure 68)

- Between 1990-1994 and 1996-2000, the IMR in Lake County declined significantly by 24.5 percent (from 8.1 to 6.1) for infants of non-Hispanic white mothers, in contrast to a moderate decline of 12.9 percent (not significant) for all races combined (from 10.8 to 9.4) and a negligible decline of 3.1 percent for infants of black mothers (from 16.0 to 15.5); the 21.8 percent decline in rates for Hispanics did not reach statistical significance. Between 1996-2000 and 2002-2006, however, there were no significant changes in rates in any of the above groups.
  (Table 34)

Age at death

- The majority of infant deaths (65 percent in 2002-2006) occurred during the neonatal period (<28 days). Between 1990-1994 and 1996-2000, both neonatal and postneonatal mortality rates declined moderately (not statistically significant) for infants of white mothers (by 20.9 and 25.9 percent, respectively) whereas

the rates remained essentially unchanged for blacks. Between 1996-2000 and 2002-2006, however, neonatal and postneonatal mortality rates increased for whites and postneonatal mortality rates decreased for blacks. None of these differences, however, reached statistical significance.
(Table 31, Figure 69)

Birth weigh and gestational age

- Between 1990-1994 and 1996-2000, infant mortality rates in Lake County declined significantly for low birth weight (LBW, less than 2,500 grams), very low birth weight (VLBW, less than 1,500 grams), moderately low birth weigh (MLBW, 1,500-2,499 grams), preterm (less than 37 weeks of gestation), and moderately preterm (32-36 weeks) infants. A similar pattern is seen for infant of white and black mothers but the decline in rate was statistically significant only for LBW infants of white mothers. For normal birth weight (2,500 grams or more) and term (37 weeks or more) infants, mortality rates declined moderately for infants of white mothers and increased for infants of black mothers but the changes were not statistically significant. Between 1996-2000 and 2002-2006, however, there were no significant changes in mortality rates of infants in the above birth weight and gestational age categories.
(Tables 35-37, Figures 70-76)

Maternal age

- Infants born to teenage mothers (<20 years of age) had a higher IMR than infants born to adult mothers (≥20 years of age) among whites but not among blacks. The racial disparity in IMR was evident among both age groups but to a much greater extent among adults.
(Tables 36-37, Figure 77)

- Between 1990-1994 and 1996-2000, mortality rates for infant of adult mothers declined significantly among whites (by 26.5 percent) but not among blacks. In contrast, mortality rates for infants of teenage mothers declined moderately (by 23.1 percent, not statistically significant) among blacks but not among whites. Between 1996-2000 and 2002-2006, there were no significant change in IMR along various age groups.
(Tables 36-37, Figure 77)

Maternal education

- Between 1990-1994 and 1996-2000, the mortality rate of infants born to adult mothers (20 years of age and older) with more than 12 years of education declined by 31.2 percent among whites and by 16.2 percent among blacks. However, the differences were not statistically significant due to the small

number of births and deaths in these categories. Blacks had a consistently higher IMR than whites, regardless of maternal level of educations.
(Tables 36-37, Figure 78)

Marital status

- Throughout the 1990-2006, the infant mortality rates were considerably higher for infants of unmarried mothers than for infants of married mothers among whites but not among blacks. The racial gap in IMR, however, persisted among both married and unmarried mothers.
(Tables 36-37, Figure 79)

Prenatal care

- The infant mortality rates were higher among infants born to women who received adequate plus/intensive care and inadequate care than among infants born to women who received adequate care. Between 1990-1994 and 1996-2000, the IMR declined significantly (by 34.1 percent) among mothers who received adequate plus care.
(Tables 35-37, Figure 80)

Maternal smoking

- Throughout the 1990-2006, mortality rates of infants born to mothers who smoked during pregnancy have been higher than the rates among infants of non-smoking mothers. There were no specific time trends in infant mortality rates for infants of smoking or non-smoking mothers.
(Tables 35-37, Figure 81)

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Race and Hispanic origin of mother	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
All races/origins																	
Infant	9.5	8.9	9.2	8.9	8.6	8.1	8.5	7.9	7.4	7.8	7.5	7.4	7.5	7.3	7.7	7.9	7.7
Neonatal	6.0	5.6	5.8	5.4	5.4	5.6	5.5	5.1	5.0	5.1	5.1	4.7	5.1	4.7	5.2	5.4	4.7
Postneonatal	3.4	3.3	3.3	3.5	3.2	2.6	3.0	2.7	2.4	2.7	2.4	2.7	2.4	2.6	2.5	2.5	2.9
White																	
Infant	8.5	7.8	7.9	7.9	7.4	7.2	7.6	7.1	6.4	6.8	6.6	6.9	6.6	6.5	6.7	7.1	6.5
Neonatal	5.4	4.8	4.8	4.9	4.7	4.8	5.0	4.7	4.2	4.4	4.7	4.4	4.5	4.2	4.5	4.7	3.9
Postneonatal	3.1	3.0	3.0	3.1	2.8	2.3	2.5	2.5	2.2	2.4	2.0	2.5	2.1	2.3	2.2	2.4	2.6
Black																	
Infant	16.9	18.3	19.2	16.2	17.5	15.8	16.2	14.2	14.9	15.5	14.4	12.0	14.2	14.2	15.8	14.6	17.1
Neonatal	11.5	12.3	13.4	10.0	11.1	11.5	9.8	9.2	11.0	10.3	8.6	7.2	9.3	9.5	10.9	10.8	11.4
Postneonatal	5.4	6.0	5.8	6.2	6.4	4.2	6.4	5.0	3.9	5.2	5.8	4.7	4.9	4.7	4.9	3.8	5.7
White, Non-Hispanic																	
Infant	8.4	7.8	7.9	7.8	7.4	7.1	7.4	7.2	6.3	6.7	6.8	6.9	6.6	6.7	6.6	7.1	6.6
Neonatal	5.4	4.8	4.9	4.8	4.7	4.8	4.9	4.6	4.3	4.3	4.7	4.4	4.4	4.3	4.4	4.7	4.0
Postneonatal	3.1	3.0	3.0	3.0	2.7	2.3	2.6	2.6	2.1	2.4	2.1	2.5	2.2	2.4	2.3	2.4	2.6
Black, Non-Hispanic																	
Infant	16.8	18.4	19.2	16.3	17.5	15.5	16.2	14.2	14.7	15.5	14.5	11.9	14.2	14.2	15.8	14.7	17.2
Neonatal	11.3	12.4	13.5	10.0	11.1	11.4	9.9	9.2	10.8	10.3	8.6	7.3	9.3	9.5	10.9	10.9	11.5
Postneonatal	5.5	6.0	5.8	6.2	6.4	4.1	6.3	5.1	3.9	5.2	5.9	4.6	4.9	4.7	4.9	3.8	5.7
Hispanic																	
Infant	*	*	*	12.2	*	8.7	9.2	6.5	6.9	8.0	4.6	6.6	6.8	4.9	7.7	7.1	5.2
Neonatal	*	*	*	*	*	*	*	*	*	6.4	4.2	4.6	5.2	3.0	5.9	5.4	2.7
Post-neonatal	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.5

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 2. Infant mortality rate by selected characteristics among all races: Indiana, 1990-2006 linked files

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
	Rate per 1,000 live births in specified group																
Total	9.5	8.9	9.2	8.9	8.6	8.1	8.5	7.9	7.4	7.8	7.5	7.4	7.5	7.3	7.7	7.9	7.7
Sex																	
Male	10.7	9.9	10.6	10.2	9.4	9.0	9.4	8.6	8.1	9.0	7.7	8.0	8.2	8.5	8.0	8.7	8.0
Female	8.1	7.8	7.6	7.5	7.7	7.2	7.5	7.2	6.6	6.5	7.2	6.7	6.8	6.0	7.4	7.0	7.3
Plurality																	
Single births	8.4	8.0	8.3	8.2	7.6	7.3	7.7	7.3	6.6	6.9	6.6	6.6	6.3	6.3	6.7	6.8	6.9
Multiple births	51.9	46.8	42.7	36.7	45.4	37.6	39.3	30.2	34.0	34.4	35.1	31.9	41.4	35.7	34.7	36.7	29.6
Birth weight (grams)																	
<2,500	83.7	80.2	76.7	76.5	69.8	65.1	65.8	61.4	61.2	63.6	60.9	56.3	63.6	57.4	60.7	61.2	60.2
<1,500	345.2	320.6	343.4	290.4	285.0	276.5	276.2	267.6	273.0	261.7	230.8	232.2	280.2	239.2	255.2	262.4	266.7
1,500-2,499	28.2	27.7	19.6	26.8	21.7	22.0	18.3	18.2	16.4	19.0	22.4	16.7	15.6	17.8	18.9	16.7	18.3
>=2,500	3.9	3.6	4.0	3.6	3.6	3.1	3.3	3.1	2.4	2.7	2.7	3.0	2.5	2.6	2.5	2.6	2.7
Unknown	260.5	212.1	440.7	*	213.9	122.1	85.1	81.7	69.2	71.1	104.3	83.5	101.7	90.7	116.7	97.1	80.6
Gestational age (weeks)																	
<37	53.9	53.3	52.2	48.2	46.4	45.5	48.6	42.4	42.6	42.0	38.6	36.5	40.7	34.8	38.9	39.0	37.2
<32	237.7	219.6	219.7	197.1	214.4	204.6	210.2	197.8	208.4	189.9	179.2	179.6	206.7	176.4	194.1	197.7	191.9
32-36	15.7	17.1	15.6	14.4	12.1	12.8	11.8	9.9	10.0	11.5	12.2	8.7	9.6	8.4	9.8	9.1	9.4
>=37	4.3	3.8	4.1	4.0	3.9	3.4	3.4	3.5	2.7	3.0	3.2	3.2	2.6	3.1	2.8	2.8	3.0
Age of mother (years)																	
<20	13.4	13.1	12.7	13.0	11.6	10.8	12.6	11.4	10.2	10.7	10.0	10.5	9.1	10.4	12.8	10.0	11.1
<18	12.9	15.3	16.6	14.1	14.8	13.3	15.1	11.8	12.5	11.1	13.5	9.8	10.1	11.5	16.4	9.4	13.0
18-19	13.7	11.9	10.6	12.4	9.6	9.3	11.3	11.2	9.1	10.5	8.4	10.8	8.6	9.9	11.3	10.2	10.3
>=20	8.8	8.2	8.5	8.2	8.0	7.7	7.8	7.3	6.9	7.3	7.1	7.0	7.3	6.9	7.1	7.6	7.2
20-24	10.5	9.4	9.0	9.8	10.1	8.8	8.3	8.5	8.1	8.7	7.9	7.4	9.1	8.1	8.3	8.5	9.0
25-29	7.5	7.5	7.6	7.7	7.2	7.2	8.0	6.5	6.0	6.0	6.5	6.4	6.6	5.8	6.5	7.2	6.3
30-34	8.4	7.0	7.8	7.0	6.0	6.4	7.5	6.5	6.7	6.8	5.8	5.7	6.0	6.2	5.4	6.3	6.6
>=35	8.1	9.8	12.7	7.3	8.7	8.2	6.6	8.1	6.6	8.1	9.3	10.1	6.7	7.7	8.4	8.9	6.3
Age / Education (years)																	
<20 / <appropriate	15.0	15.0	15.2	12.3	11.3	7.3	9.2	11.6	9.7	10.1	7.4	9.6	12.2	10.9	17.2	11.8	8.0
<20 / appropriate	12.1	11.3	11.3	12.5	11.2	12.0	13.2	11.0	10.3	10.5	11.2	10.1	7.8	9.9	10.0	9.0	12.0
>=20 / <12	12.2	10.9	12.1	11.2	14.0	9.5	11.2	12.1	11.1	11.8	9.0	9.1	9.9	8.6	10.7	9.5	9.2
>=20 / 12	9.0	8.7	8.9	8.4	8.5	8.4	7.8	7.3	7.3	8.1	7.9	7.7	8.0	8.3	7.6	9.2	9.0
>=20 / >12	6.7	6.3	7.0	6.8	5.7	6.1	6.4	5.5	4.9	5.0	5.6	5.7	5.5	5.3	5.5	5.8	5.3

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 2. Infant mortality rate by selected characteristics among all races: Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
	Rate per 1,000 live births in specified group																
Education (years)																	
<12	12.7	11.9	13.2	12.2	13.0	10.8	11.7	12.4	11.3	11.6	9.4	9.5	10.2	9.8	12.1	10.2	10.1
0-8	14.7	14.1	13.5	13.1	16.4	9.0	9.3	10.5	9.8	8.0	7.7	10.7	6.1	8.2	11.5	10.4	7.1
9-11	12.3	11.5	13.2	12.1	12.2	11.2	12.3	12.8	11.7	12.6	9.8	9.1	11.5	10.4	12.3	10.1	11.2
=12	9.2	9.0	8.9	8.6	8.7	8.4	8.3	7.3	7.4	8.3	8.1	8.0	7.8	8.2	7.6	9.0	9.0
>12	6.9	6.4	6.9	6.9	5.8	6.1	6.4	5.6	4.9	5.0	5.7	5.7	5.5	5.3	5.5	5.8	5.3
13-15	7.4	6.8	6.6	7.8	6.8	6.6	6.8	6.2	6.1	5.7	6.5	6.3	6.4	6.1	6.2	7.3	6.4
>=16	6.3	5.8	7.3	5.8	4.7	5.4	6.0	5.0	3.6	4.3	5.0	5.1	4.7	4.4	4.8	4.4	4.3
Unknown	50.3	52.2	*	39.1	21.9	23.3	31.8	32.2	37.2	29.7	29.5	*	57.5	*	*	*	22.8
Live-birth order																	
First	8.8	8.3	8.3	7.8	7.6	8.5	8.2	8.4	6.9	8.3	7.7	6.9	7.1	7.0	7.8	7.6	8.3
Second	8.8	9.4	8.1	9.5	8.1	7.0	7.9	6.9	6.9	6.4	6.7	6.6	6.8	6.4	7.3	7.3	6.9
Third	9.6	9.3	11.1	8.4	9.0	7.9	9.7	7.8	7.5	7.7	7.9	8.6	8.1	7.4	6.2	7.4	6.3
Fourth+	12.6	9.1	12.8	11.3	12.8	10.3	9.9	8.7	9.8	9.6	8.1	9.4	9.1	10.2	10.7	10.6	9.3
Marital status																	
Married	7.8	7.2	7.3	7.0	6.5	6.3	6.9	6.2	5.6	5.9	6.1	6.3	5.8	5.9	6.2	6.9	5.7
Unmarried	13.8	13.2	13.5	13.1	13.2	12.0	11.8	11.3	10.9	11.2	10.2	9.3	10.5	9.6	10.1	9.3	10.5
Trimester prenatal care began																	
First trimester	8.2	8.0	8.5	7.8	7.4	7.4	7.8	7.0	6.5	6.9	6.9	7.3	6.4	6.2	7.0	7.3	6.9
After first trimester	9.7	7.6	9.2	10.3	10.3	8.6	8.0	8.3	7.1	8.1	7.2	6.2	8.1	7.8	6.7	7.2	7.3
Second trimester	9.3	7.9	9.4	10.8	10.9	9.1	7.7	7.9	7.0	8.5	6.6	6.5	8.0	8.2	7.0	7.4	7.6
Third trimester	12.3	*	8.3	*	*	*	9.9	10.8	7.7	*	10.3	*	*	*	*	*	*
No care	44.4	38.9	42.4	44.9	47.1	41.2	42.5	42.4	56.1	37.6	35.5	*	46.8	48.8	54.1	34.8	29.5
Unknown	30.2	42.2	22.7	27.3	23.3	21.8	25.1	22.1	32.1	36.0	36.3	24.0	57.1	45.5	30.9	27.4	33.4
Prenatal care index[1]																	
Adequate plus	14.6	14.3	14.3	14.6	13.1	12.3	11.5	10.9	9.8	11.4	9.9	10.6	9.4	9.4	10.3	11.5	10.7
Adequate	4.8	4.8	5.3	4.9	4.3	4.2	4.8	4.0	3.5	3.4	4.0	4.3	3.7	3.3	3.8	3.7	3.9
Intermediate	6.1	5.8	6.0	5.9	5.6	5.1	5.2	4.9	3.9	3.9	3.8	5.0	4.6	5.0	4.7	4.6	4.8
Inadequate	11.3	7.7	9.1	9.1	10.5	8.6	8.3	8.5	6.7	7.6	7.9	5.6	7.3	7.4	6.1	7.0	6.6
No care	44.4	38.9	42.4	44.9	47.1	41.2	42.5	42.4	56.1	37.6	35.5	*	46.8	48.8	54.1	34.8	29.5
Unknown	31.7	39.8	36.6	30.1	30.6	30.9	29.7	28.4	36.4	36.5	42.6	32.9	51.5	49.4	44.0	34.8	37.6
Maternal smoking																	
Smoking	12.7	11.1	11.9	11.4	12.0	10.8	11.6	9.9	11.3	10.8	10.3	10.1	12.1	10.7	10.6	9.7	10.2
Not smoking	8.0	8.0	8.2	7.9	7.4	7.3	7.6	7.3	6.3	6.9	6.7	6.7	6.4	6.5	7.0	7.4	7.1

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services

Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 3. Infant mortality rate by selected characteristics among whites: Indiana, 1990-2006 linked files

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
	Rate per 1,000 live births in specified group																
Total	8.5	7.8	7.9	7.9	7.4	7.2	7.6	7.1	6.4	6.8	6.6	6.9	6.6	6.5	6.7	7.1	6.5
Sex																	
Male	9.8	8.6	9.1	9.2	8.0	8.0	8.6	7.6	7.2	8.1	6.8	7.6	7.2	7.5	7.0	8.0	7.0
Female	7.2	6.8	6.5	6.6	6.8	6.3	6.4	6.6	5.5	5.4	6.5	6.2	6.1	5.4	6.5	6.2	5.9
Plurality																	
Single births	7.6	7.0	7.2	7.3	6.6	6.4	6.9	6.5	5.6	6.0	5.7	6.1	5.6	5.7	5.8	6.2	5.9
Multiple births	46.8	41.6	37.9	34.5	38.7	35.7	33.5	28.4	32.0	29.4	35.4	31.6	35.2	30.7	33.1	32.0	24.6
Birth weight (grams)																	
<2,500	83.5	74.9	68.2	73.5	66.5	60.8	64.4	59.7	55.7	59.5	59.7	54.7	61.0	53.7	54.0	56.8	53.8
<1,500	358.4	294.5	329.5	279.5	282.2	264.9	271.9	257.3	256.5	251.6	233.6	227.0	274.3	233.3	236.9	254.1	251.1
1,500-2,499	29.5	29.7	18.9	26.6	22.2	21.5	20.1	20.3	15.9	19.2	22.1	18.4	15.2	18.0	17.2	16.8	17.4
>=2,500	3.6	3.4	3.8	3.4	3.3	3.0	3.0	2.9	2.3	2.4	2.4	2.9	2.3	2.5	2.5	2.7	2.5
Gestational age (weeks)																	
<37	53.1	47.9	46.2	45.3	41.6	41.1	45.9	39.9	37.5	38.7	36.5	34.6	36.8	31.7	33.8	35.6	30.8
<32	249.3	205.5	209.4	194.8	210.6	195.7	210.4	197.2	195.6	183.4	177.8	178.1	197.0	167.5	175.8	188.1	171.7
32-36	16.2	16.8	14.9	14.3	11.5	12.8	11.7	10.2	9.4	11.6	11.7	9.8	9.1	8.6	9.5	9.3	8.4
>=37	4.0	3.6	3.8	3.8	3.6	3.3	3.1	3.3	2.5	2.7	2.8	3.1	2.4	2.9	2.7	2.7	2.9
Unknown																	
Age of mother (years)																	
<20	12.7	11.2	11.0	11.8	9.4	10.2	10.7	10.3	9.7	9.8	9.0	9.0	8.0	9.6	12.5	9.4	10.5
<18	13.2	11.0	14.4	13.2	11.9	13.6	13.8	11.3	11.6	9.7	12.4	*	8.7	9.7	17.6	*	12.1
18-19	12.4	11.3	9.2	11.2	8.0	8.3	9.1	9.8	8.9	9.9	7.5	9.7	7.7	9.6	10.5	9.7	9.9
>=20	7.9	7.3	7.4	7.4	7.1	6.7	7.1	6.7	5.9	6.4	6.3	6.6	6.5	6.2	6.1	6.8	6.0
20-24	9.2	8.4	7.8	9.0	8.4	7.6	7.4	7.7	7.0	7.5	6.9	7.2	8.1	7.2	7.0	7.6	7.3
25-29	7.0	6.9	6.7	6.8	6.7	6.7	7.3	6.0	5.3	5.2	5.8	6.0	5.7	5.1	5.4	6.4	5.2
30-34	7.5	6.1	6.8	6.1	5.4	5.6	6.9	6.1	6.1	5.9	5.3	5.7	5.7	5.7	4.8	5.9	5.8
>=35	7.7	8.0	10.6	7.1	8.6	6.8	5.9	7.1	4.4	7.5	8.4	8.8	5.5	7.3	8.1	8.0	5.6
Age / Education (years)																	
<20 / <appropriate	15.4	13.3	13.8	12.6	11.0	*	*	8.3	9.7	10.1	*	8.9	11.0	11.6	17.0	12.2	*
<20 / appropriate	11.0	9.7	9.4	11.2	8.5	11.4	12.4	10.9	9.7	9.5	10.1	8.4	6.6	8.7	9.4	7.9	11.4
>=20 / <12	11.3	10.4	9.9	10.8	13.2	8.5	10.2	11.5	10.5	11.0	8.0	9.6	8.9	7.7	9.7	8.5	8.1
>=20 / 12	8.1	7.9	7.9	7.4	7.7	7.4	7.0	6.8	6.1	7.1	6.8	7.2	7.3	7.4	6.9	8.8	7.3
>=20 / >12	6.2	5.4	6.1	6.2	5.0	5.3	5.9	5.0	4.2	4.4	5.2	5.3	4.8	4.8	4.4	5.1	4.3

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 3. Infant mortality rate by selected characteristics among whites: Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
	Rate per 1,000 live births in specified group																
Education (years)																	
<12	12.4	10.8	11.0	12.0	11.8	10.0	10.4	11.3	10.9	10.8	8.3	9.3	9.0	8.9	11.3	9.3	9.1
0-8	14.2	12.1	11.0	13.8	16.1	8.7	8.3	9.5	9.2	7.0	7.6	11.2	6.1	8.1	11.2	10.6	6.8
9-11	12.1	10.5	11.0	11.6	10.7	10.3	11.0	11.8	11.4	11.9	8.5	8.7	10.1	9.2	11.4	8.8	10.0
=12	8.2	8.2	7.9	7.4	7.7	7.5	7.4	7.0	6.2	7.4	7.0	7.3	7.2	7.3	6.9	8.5	7.5
>12	6.3	5.4	6.1	6.3	5.1	5.3	5.9	5.1	4.2	4.4	5.3	5.3	4.8	4.8	4.4	5.1	4.3
13-15	6.5	5.5	5.6	7.2	5.6	5.6	5.8	5.3	5.2	4.7	5.9	5.6	5.4	5.5	4.4	6.0	4.6
>=16	6.0	5.2	6.7	5.2	4.5	5.0	6.0	4.9	3.2	4.1	4.8	5.0	4.2	4.1	4.3	4.2	4.1
Live-birth order																	
First	8.0	7.1	7.1	7.0	6.7	7.7	7.3	7.6	6.2	7.5	6.9	6.4	6.8	6.3	6.8	6.9	6.9
Second	8.0	8.1	7.1	8.6	7.1	6.1	7.1	6.2	6.3	5.7	6.0	6.2	6.1	5.6	6.3	7.1	6.0
Third	9.0	8.8	10.1	7.6	7.8	7.0	8.8	6.9	6.1	6.5	6.8	8.1	6.7	6.3	5.3	6.5	5.3
Fourth+	10.6	7.8	10.2	9.8	11.5	8.4	8.4	8.2	7.8	8.0	7.0	8.6	6.9	10.1	9.8	8.8	7.8
Marital status																	
Married	7.6	6.8	6.8	6.8	6.3	6.1	6.6	6.0	5.2	5.5	5.9	6.2	5.8	5.6	5.9	6.7	5.3
Unmarried	12.0	11.2	11.4	11.4	10.6	10.2	10.1	10.2	9.5	9.7	8.4	8.4	8.4	8.2	8.3	7.8	8.6
Trimester prenatal care began																	
First trimester	7.7	7.2	7.5	7.2	6.6	6.6	7.2	6.5	5.6	6.2	6.2	6.9	5.7	5.6	6.1	6.7	5.8
After first trimester	8.8	6.8	8.1	9.0	9.9	8.0	6.9	7.5	6.5	7.7	6.6	5.7	7.2	7.3	6.4	6.5	6.7
Second trimester	8.3	7.3	8.1	9.2	10.4	8.5	7.0	7.3	6.2	8.0	5.8	6.0	7.4	7.7	6.7	6.3	6.9
Third trimester	11.5	*	*	*	*	*	*	*	*	*	11.0	*	*	*	*	*	*
No care	39.6	29.8	*	*	*	*	*	*	54.3	*	*	*	*	*	55.2	*	*
Prenatal care index[1]																	
Adequate plus	14.1	12.9	12.9	13.6	12.2	11.5	10.8	10.3	8.5	10.6	9.0	9.9	8.5	8.4	9.2	10.4	9.3
Adequate	4.5	4.6	4.9	4.6	3.8	3.9	4.4	3.5	3.1	3.0	3.7	4.1	3.6	3.0	3.3	3.5	3.3
Intermediate	5.7	5.1	5.0	5.2	4.9	4.5	5.0	4.9	3.7	3.9	3.1	4.9	3.8	4.6	3.9	3.9	4.6
Inadequate	9.8	7.1	8.2	8.3	9.9	7.9	7.3	7.3	6.3	6.9	7.6	5.1	6.4	7.0	5.7	6.5	6.0
No care	39.6	29.8	*	*	*	*	*	*	54.3	*	*	*	*	*	55.2	*	*
Maternal smoking																	
Smoking	11.8	9.8	10.5	10.7	11.3	9.9	10.9	9.6	10.4	10.0	9.6	9.2	10.5	9.9	9.8	9.1	9.3
Not smoking	7.0	7.0	6.9	6.9	6.2	6.3	6.5	6.4	5.3	5.8	5.8	6.2	5.7	5.7	6.0	6.6	5.8

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 4. Infant mortality rate by selected characteristics among blacks: Indiana, 1990-2006 linked files

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
	Rate per 1,000 live births in specified group																
Total	16.9	18.3	19.2	16.2	17.5	15.8	16.2	14.2	14.9	15.5	14.4	12.0	14.2	14.2	15.8	14.6	17.1
Sex																	
Male	18.4	20.5	22.4	17.7	20.0	17.3	16.7	16.6	14.8	16.6	16.6	12.8	15.5	17.1	15.7	15.2	16.4
Female	15.3	15.9	15.8	14.6	14.9	14.2	15.7	11.8	14.7	14.2	12.2	10.9	12.6	11.2	15.9	13.9	17.8
Plurality																	
Single births	14.8	16.5	17.6	15.2	15.2	14.8	14.4	13.2	13.6	13.4	14.0	11.0	11.9	11.8	14.5	12.2	15.2
Multiple births	90.9	97.7	68.7	*	94.9	*	80.0	*	*	75.4	*	*	69.1	80.2	*	71.4	63.1
Birth weight (grams)																	
<2,500	86.4	103.3	107.5	85.6	85.2	84.4	74.6	69.3	82.4	81.2	68.3	64.4	72.0	77.5	89.2	87.0	88.2
<1,500	303.5	403.2	373.2	323.7	298.0	326.0	298.5	302.9	318.2	290.9	227.6	259.1	285.1	262.6	316.7	301.9	318.0
1,500-2,499	25.2	*	*	26.0	*	23.4	*	*	*	*	21.8	*	*	*	26.5	*	21.3
>=2,500	5.9	5.3	5.8	5.2	6.5	4.1	6.0	4.7	3.5	5.2	5.5	3.6	4.5	4.1	3.2	2.7	4.4
Gestational age (weeks)																	
<37	57.9	76.8	76.3	60.0	68.6	64.9	60.1	54.2	64.4	58.1	49.4	47.2	58.2	53.2	66.2	60.3	70.6
<32	206.3	260.1	244.4	199.0	227.4	231.2	207.0	201.0	243.5	206.9	184.8	188.7	222.2	208.1	261.3	241.5	253.9
32-36	*	19.4	19.1	16.0	*	*	*	*	*	*	*	*	*	*	*	*	15.8
>=37	6.8	5.0	6.0	6.1	6.1	4.9	6.0	5.1	3.8	6.0	6.4	4.1	4.2	4.9	4.0	3.9	4.4
Unknown																	
Age of mother (years)																	
<20	16.5	19.9	18.9	17.6	19.8	13.5	21.0	16.2	12.3	14.4	13.5	17.3	13.6	14.2	14.8	12.9	13.7
<18	*	26.6	22.6	16.8	22.4	*	19.7	*	*	*	*	*	*	*	*	*	*
18-19	19.6	14.4	15.8	18.2	17.6	*	22.1	17.8	*	*	*	16.5	*	*	*	*	*
>=20	17.0	17.8	19.0	15.7	16.6	16.6	14.5	13.5	15.7	15.8	14.7	10.6	14.3	14.2	16.0	14.9	18.0
20-24	19.2	16.9	16.9	15.0	20.7	17.3	13.8	13.4	15.5	15.4	14.6	8.7	14.6	14.5	16.7	13.3	19.4
25-29	13.3	15.4	18.4	17.9	12.2	14.6	14.1	12.5	12.0	14.7	13.4	10.4	15.0	13.9	17.8	16.4	16.5
30-34	18.9	18.1	22.2	*	*	*	*	*	*	18.6	*	*	*	*	*	*	17.2
>=35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Age / Education (years)																	
<20 / <appropriate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<20 / appropriate	15.3	16.2	17.0	16.8	20.6	14.1	16.4	11.2	12.5	13.8	13.0	16.8	*	15.0	*	*	14.5
>=20 / <12	17.3	*	27.7	*	21.6	*	19.3	*	16.5	17.7	15.9	*	18.4	15.9	18.8	17.8	17.2
>=20 / 12	17.0	15.9	18.4	16.3	14.3	17.5	14.1	11.1	16.0	16.0	15.8	11.2	13.5	15.4	12.4	12.5	20.1
>=20 / >12	13.3	18.7	16.2	13.9	15.1	14.0	12.3	12.7	13.4	13.2	11.6	11.1	12.6	11.9	18.3	15.5	16.0

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Table 4. Infant mortality rate by selected characteristics among blacks: Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
	Rate per 1,000 live births in specified group																
Education (years)																	
<12	13.9	18.2	23.6	13.6	19.6	14.9	19.5	18.2	13.9	16.4	15.1	10.6	17.6	16.3	17.4	16.1	16.4
0-8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9-11	13.4	16.3	22.7	14.2	19.4	14.9	19.0	17.8	13.3	15.9	15.7	11.1	18.8	16.6	17.0	16.7	16.7
=12	17.2	15.5	17.2	17.4	15.7	16.1	15.0	10.1	15.4	14.5	15.4	12.3	12.2	14.2	12.2	12.3	18.1
>12	14.8	18.3	15.9	14.0	15.4	13.9	12.2	13.0	13.2	13.4	11.5	11.1	13.1	11.6	18.0	15.3	16.1
13-15	14.4	17.2	15.4	12.6	16.4	14.3	14.1	14.2	13.3	14.7	11.6	12.0	13.6	11.6	21.0	16.7	18.6
>=16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Live-birth order																	
First	16.7	18.8	18.7	14.8	15.9	15.1	15.5	15.0	13.1	15.7	15.0	12.2	9.5	14.5	16.1	15.0	20.3
Second	16.0	21.7	16.6	16.6	17.5	15.5	16.2	13.5	12.5	13.1	12.3	11.1	13.8	13.8	17.1	11.1	14.7
Third	13.7	12.4	19.3	14.9	18.8	14.4	16.0	16.3	16.9	16.8	15.7	11.4	17.9	16.7	13.0	14.2	14.7
Fourth+	20.9	16.0	23.8	17.1	19.5	19.4	18.8	*	19.2	17.2	13.6	13.6	19.9	*	15.9	19.2	16.8
Marital status																	
Married	14.7	19.4	19.9	12.4	*	10.9	14.1	11.9	14.3	14.6	10.1	11.3	10.2	13.6	13.2	13.3	15.9
Unmarried	17.6	18.0	18.8	17.4	19.7	17.2	16.9	14.9	15.0	15.7	15.8	12.2	15.4	14.4	16.5	14.9	17.5
Trimester prenatal care began																	
First trimester	14.4	16.9	18.4	12.6	17.1	15.4	13.4	13.2	14.4	13.7	13.9	12.5	12.6	12.9	16.6	14.5	17.2
After first trimester	13.5	11.0	13.6	15.7	12.5	10.9	13.8	11.7	9.7	11.2	10.3	8.4	12.6	10.5	8.5	10.9	10.1
Second trimester	13.5	11.4	14.6	17.4	13.7	11.4	11.6	9.9	10.5	11.8	11.2	8.9	11.8	10.1	9.0	12.6	10.6
Third trimester	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
No care	*	56.5	*	*	78.7	*	*	*	*	*	*	*	*	*	*	*	*
Prenatal care index[1]																	
Adequate plus	19.1	27.9	25.2	23.6	20.9	19.0	17.9	15.8	19.7	18.6	18.6	16.8	16.8	18.2	19.5	20.8	23.0
Adequate	8.8	8.2	11.0	8.2	12.2	7.8	*	9.8	8.2	7.2	7.8	6.8	*	*	10.1	*	10.2
Intermediate	*	*	13.4	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Inadequate	16.4	10.0	12.4	12.1	12.8	12.1	13.5	14.4	*	11.2	*	*	12.0	*	*	10.1	9.3
No care	*	56.5	*	*	78.7	*	*	*	*	*	*	*	*	*	*	*	*
Maternal smoking																	
Smoking	19.9	24.3	26.3	19.6	19.4	21.5	20.8	*	20.6	19.9	18.1	18.2	27.1	19.1	19.6	15.3	18.8
Not smoking	15.3	16.2	16.9	14.6	16.5	14.6	15.4	14.1	13.4	14.7	13.4	10.7	11.8	13.3	14.9	14.2	16.9

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 5. Infant mortality rate by selected characteristics among non-Hispanic whites: Indiana, 1990-2006 linked files

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
	Rate per 1,000 live births in specified group																
Total	8.4	7.8	7.9	7.8	7.4	7.1	7.4	7.2	6.3	6.7	6.8	6.9	6.6	6.7	6.6	7.1	6.6
Sex																	
Male	9.7	8.6	9.1	9.0	8.0	7.9	8.5	7.7	7.2	8.0	7.0	7.7	7.0	7.6	6.7	7.9	7.2
Female	7.1	6.9	6.5	6.5	6.8	6.3	6.3	6.6	5.5	5.4	6.5	6.1	6.3	5.7	6.5	6.3	6.1
Plurality																	
Single births	7.5	7.0	7.2	7.1	6.6	6.4	6.8	6.6	5.6	6.0	5.9	6.1	5.6	5.8	5.7	6.3	6.0
Multiple births	47.2	41.9	37.6	32.9	38.6	32.6	31.8	29.0	31.9	26.7	35.6	30.7	35.1	30.6	31.3	29.8	24.8
Birth weight (grams)																	
<2,500	83.1	74.9	68.8	72.2	66.5	60.6	63.1	59.0	56.3	58.3	60.1	54.2	60.4	54.9	50.6	54.8	54.8
<1,500	357.2	296.5	334.3	276.1	281.6	262.8	266.6	257.6	256.0	243.9	232.0	225.6	271.4	237.4	220.8	249.4	253.1
1,500-2,499	29.5	29.5	18.9	26.7	22.3	21.5	20.9	20.4	16.9	19.9	22.9	18.9	15.4	18.3	16.8	15.2	18.4
>=2,500	3.6	3.4	3.7	3.4	3.3	2.9	3.0	2.9	2.2	2.5	2.5	3.0	2.4	2.5	2.6	2.8	2.5
Gestational age (weeks)																	
<37	53.4	47.8	46.7	44.5	42.1	41.3	45.1	39.6	37.9	37.9	37.0	34.8	36.6	32.7	32.7	35.2	31.8
<32	250.7	206.2	214.0	190.8	213.3	194.4	207.0	196.5	195.7	177.5	181.0	180.7	193.1	170.2	168.5	186.5	177.7
32-36	16.3	16.6	14.7	14.2	11.9	13.1	12.4	10.4	9.8	12.1	12.0	10.1	9.6	8.9	9.8	9.2	8.8
>=37	4.0	3.7	3.8	3.7	3.6	3.2	3.1	3.4	2.4	2.7	2.9	3.2	2.5	2.9	2.8	2.8	3.0
Unknown																	
Age of mother (years)																	
<20	12.6	11.4	11.0	11.8	9.5	10.1	10.6	9.9	9.5	10.1	9.2	9.7	8.3	9.8	13.1	8.8	11.6
<18	12.3	11.5	14.7	13.5	12.0	13.5	13.6	11.0	11.4	10.0	11.4	*	*	10.4	18.7	*	14.0
18-19	12.7	11.4	9.1	11.0	8.2	8.2	9.1	9.2	8.7	10.2	8.3	10.4	7.8	9.6	11.0	9.8	10.7
>=20	7.8	7.3	7.4	7.2	7.1	6.7	7.0	6.8	5.9	6.3	6.5	6.6	6.4	6.3	5.9	6.9	6.1
20-24	9.3	8.4	7.9	8.7	8.4	7.5	7.3	7.9	7.0	7.6	7.2	7.3	8.3	7.6	6.9	8.2	7.4
25-29	6.8	6.9	6.6	6.7	6.8	6.6	7.2	6.3	5.2	5.1	5.9	5.9	5.5	5.2	5.5	6.4	5.5
30-34	7.6	6.2	6.8	5.9	5.4	5.6	6.7	6.3	6.1	5.7	5.5	5.8	5.7	6.0	4.7	5.7	5.8
>=35	7.3	7.4	10.7	7.1	8.2	7.0	5.8	6.7	4.2	7.6	8.3	8.3	5.6	7.0	7.1	7.5	5.4
Age / Education (years)																	
<20 / <appropriate	15.9	13.4	13.7	12.0	11.3	*	*	8.1	9.7	10.2	*	9.8	12.5	13.4	19.6	11.6	*
<20 / appropriate	10.6	9.9	9.5	11.3	8.5	11.4	11.9	10.4	9.4	9.9	9.8	8.9	6.5	8.3	9.4	7.4	12.3
>=20 / <12	11.1	10.6	9.8	10.2	13.9	8.5	10.3	13.0	11.4	11.1	9.2	10.5	9.6	8.5	10.2	9.6	9.8
>=20 / 12	8.2	7.9	7.8	7.3	7.5	7.3	7.1	6.8	6.1	7.0	6.8	7.2	7.3	7.8	6.9	9.0	7.5
>=20 / >12	6.2	5.4	6.2	6.1	5.0	5.3	5.6	5.0	4.1	4.5	5.3	5.2	4.8	4.8	4.3	5.1	4.2

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 5. Infant mortality rate by selected characteristics among non-Hispanic whites: Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
	Rate per 1,000 live births in specified group																
Education (years)																	
<12	12.2	11.0	11.1	11.7	12.2	10.0	10.6	12.0	11.4	11.0	9.1	10.2	9.8	9.8	12.3	9.9	11.0
0-8	13.6	12.2	10.4	12.1	17.2	8.5	8.9	11.0	11.4	*	8.1	12.8	*	10.2	12.7	12.1	8.2
9-11	12.0	10.7	11.2	11.6	11.1	10.3	10.9	12.2	11.5	12.2	9.4	9.6	10.5	9.7	12.1	9.3	11.7
=12	8.3	8.1	7.9	7.3	7.6	7.4	7.5	7.0	6.2	7.3	7.0	7.3	7.1	7.6	6.9	8.7	7.7
>12	6.2	5.4	6.1	6.2	5.1	5.3	5.7	5.1	4.1	4.5	5.4	5.3	4.8	4.8	4.3	5.0	4.2
13-15	6.5	5.4	5.6	7.3	5.6	5.6	5.6	5.2	5.0	4.9	6.1	5.5	5.3	5.7	4.4	6.0	4.4
>=16	5.9	5.3	6.7	4.9	4.6	5.0	5.7	4.9	3.2	4.1	4.8	5.0	4.2	4.1	4.3	4.2	4.1
Live-birth order																	
First	7.9	7.2	7.2	6.9	6.8	7.8	7.2	7.6	6.1	7.4	7.0	6.4	6.8	6.3	6.7	6.8	7.3
Second	7.9	8.1	6.9	8.4	7.0	5.9	6.9	6.3	6.3	5.8	6.1	6.2	6.2	5.8	6.6	7.4	5.9
Third	9.1	8.8	10.1	7.8	7.8	6.7	8.9	7.2	5.8	6.5	7.2	8.3	6.8	6.6	5.2	6.7	5.5
Fourth+	10.8	7.5	10.5	9.5	11.0	8.2	8.4	8.1	7.7	7.4	7.3	8.5	6.5	10.6	8.7	8.2	8.0
Marital status																	
Married	7.5	6.8	6.8	6.6	6.3	6.1	6.5	6.1	5.1	5.5	6.0	6.2	5.8	5.6	5.7	6.6	5.3
Unmarried	12.1	11.3	11.5	11.3	10.6	10.0	10.1	10.2	9.4	9.7	8.7	8.6	8.6	8.9	8.5	8.0	9.2
Trimester prenatal care began																	
First trimester	7.6	7.2	7.5	7.1	6.6	6.5	7.0	6.5	5.6	6.2	6.4	6.9	5.7	5.7	5.9	6.6	5.8
After first trimester	8.8	7.1	8.0	8.8	10.1	7.9	7.5	8.0	6.7	7.8	6.7	6.2	7.8	8.0	6.8	7.1	7.4
Second trimester	8.2	7.5	7.9	9.0	10.7	8.4	7.5	7.8	6.4	8.1	5.6	6.4	7.7	8.5	7.0	6.6	7.5
Third trimester	12.1	*	*	*	*	*	*	*	*	*	12.6	*	*	*	*	*	*
No care	40.0	30.0	*	*	*	*	*	*	58.1	*	*	*	*	*	*	*	*
Prenatal care index[1]																	
Adequate plus	14.0	12.6	12.8	13.5	12.4	11.6	10.6	10.4	8.4	10.6	9.2	10.0	8.4	8.6	9.0	10.2	9.1
Adequate	4.5	4.7	4.9	4.4	3.7	3.8	4.4	3.5	3.1	3.0	3.7	4.0	3.6	3.0	3.4	3.4	3.4
Intermediate	5.8	5.2	4.9	5.1	4.9	4.7	4.9	4.9	3.6	3.5	3.4	4.7	4.2	4.9	3.8	3.8	4.4
Inadequate	9.9	7.4	8.5	8.4	10.4	7.6	7.9	7.8	6.4	6.9	8.0	5.8	6.9	7.9	5.9	7.5	6.7
No care	40.0	30.0	*	*	*	*	*	*	58.1	*	*	*	*	*	*	*	*
Maternal smoking																	
Smoking	11.8	9.8	10.4	10.4	11.2	10.0	11.0	9.7	10.1	10.2	9.9	9.1	10.6	10.0	9.9	9.2	9.4
Not smoking	7.0	7.0	6.9	6.8	6.2	6.2	6.3	6.4	5.2	5.7	5.8	6.2	3.7	5.8	5.7	6.6	5.9

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services

Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 6. Infant mortality rate by selected characteristics among non-Hispanic blacks: Indiana, 1990-2006 linked files

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
	Rate per 1,000 live births in specified group																
Total	16.8	18.4	19.2	16.3	17.5	15.5	16.2	14.2	14.7	15.5	14.5	11.9	14.2	14.2	15.8	14.7	17.2
Sex																	
Male	18.4	20.5	22.5	17.7	20.0	16.9	16.8	16.6	14.5	16.7	16.7	12.8	15.5	17.0	15.7	15.3	16.5
Female	15.2	16.0	15.8	14.7	15.0	14.0	15.6	11.9	14.8	14.3	12.3	10.8	12.7	11.2	16.0	14.0	17.9
Plurality																	
Single births	14.7	16.6	17.6	15.3	15.2	14.6	14.3	13.3	13.4	13.5	14.0	11.0	12.0	11.8	14.6	12.3	15.3
Multiple births	90.9	98.6	68.7	*	95.2	*	80.6	*	*	75.4	*	*	69.1	80.2	*	71.8	63.6
Birth weight (grams)																	
<2,500	86.2	104.0	107.7	85.8	85.7	82.4	75.0	69.5	82.0	81.4	68.6	64.5	72.1	76.8	89.4	87.3	88.5
<1,500	302.0	403.2	374.6	323.7	298.0	321.4	299.6	302.9	318.2	293.0	228.5	259.1	286.3	262.6	317.9	302.8	318.0
1,500-2,499	25.4	*	*	26.0	*	22.4	*	*	*	*	21.9	*	*	*	26.5	*	21.4
>=2,500	6.0	5.3	5.9	5.2	6.6	4.1	5.9	4.7	3.5	5.3	5.5	3.5	4.5	4.1	3.2	2.7	4.4
Gestational age (weeks)																	
<37	57.7	77.3	76.5	60.2	68.7	63.9	60.3	54.3	64.0	58.4	49.7	47.4	58.3	53.5	66.4	60.7	71.0
<32	204.9	262.0	244.9	199.0	227.9	227.2	208.0	201.6	242.1	208.4	185.8	189.2	222.8	208.7	262.0	242.1	255.0
32-36	*	19.5	19.1	16.0	*	*	*	*	*	*	*	*	*	*	*	*	15.9
>=37	6.8	5.1	6.0	6.1	6.2	4.8	5.9	5.1	3.7	6.0	6.4	4.0	4.3	4.8	4.0	3.9	4.4
Unknown																	
Age of mother (years)																	
<20	16.7	20.1	18.9	17.6	19.9	13.6	21.1	16.2	12.4	14.5	13.6	16.8	13.6	14.2	14.9	13.0	13.9
<18	*	26.8	22.6	16.9	22.5	*	19.7	*	*	*	*	*	*	*	*	*	*
18-19	19.8	14.5	15.9	18.2	17.6	*	22.2	17.9	*	*	*	16.6	*	*	*	*	*
>=20	16.9	17.8	19.1	15.8	16.6	16.3	14.4	13.6	15.5	15.9	14.8	10.6	14.4	14.2	16.1	15.1	18.1
20-24	18.7	17.0	16.9	15.1	20.7	17.4	13.6	13.4	15.6	15.5	14.6	8.8	14.6	14.3	16.7	13.4	19.6
25-29	13.4	15.5	18.5	18.0	12.2	13.6	14.2	12.5	11.5	14.8	13.5	10.4	15.1	14.0	17.9	16.5	16.6
30-34	19.1	18.1	22.3	*	*	*	*	*	*	18.8	*	*	*	*	*	*	17.2
>=35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Age / Education (years)																	
<20 / <appropriate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<20 / appropriate	15.4	16.3	17.0	16.8	20.6	14.2	16.5	11.3	12.6	13.8	13.1	16.2	*	15.0	*	*	14.6
>=20 / <12	17.5	*	27.7	*	21.8	*	18.6	*	16.5	17.7	15.9	*	18.5	15.3	18.9	17.9	17.3
>=20 / 12	17.1	16.0	18.5	16.3	14.3	16.9	14.1	11.1	16.1	16.1	15.8	11.2	13.5	15.5	12.5	12.6	20.2
>=20 / >12	13.4	18.7	16.2	13.9	15.2	14.2	12.4	12.7	12.7	13.3	11.7	11.1	12.7	12.0	18.4	15.6	16.0

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 6. Infant mortality rate by selected characteristics among non-Hispanic blacks: Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
	Rate per 1,000 live births in specified group																
Education (years)																	
<12	14.0	18.4	23.7	13.6	19.8	15.0	19.2	18.3	14.0	16.4	15.2	10.2	17.7	16.1	17.5	16.2	16.5
0-8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9-11	13.5	16.4	22.7	14.2	19.5	15.0	18.7	17.8	13.4	15.9	15.7	10.8	18.9	16.7	17.1	16.8	16.8
=12	17.3	15.6	17.2	17.4	15.7	15.6	15.1	10.2	15.4	14.6	15.4	12.4	12.3	14.2	12.3	12.3	18.3
>12	14.9	18.3	16.0	14.1	15.4	14.0	12.3	13.0	12.6	13.5	11.6	11.1	13.1	11.7	18.1	15.4	16.2
13-15	14.5	17.2	15.4	12.6	16.4	14.4	14.2	14.3	12.5	14.8	11.7	12.0	13.7	11.7	21.1	16.9	18.7
>=16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Live-birth order																	
First	16.9	18.9	18.8	14.8	15.9	15.2	15.6	15.1	12.9	15.8	15.1	12.0	9.6	14.3	16.1	15.1	20.5
Second	15.7	21.9	16.6	16.6	17.6	15.6	16.4	13.5	12.2	13.2	12.4	11.1	13.8	13.8	17.2	11.1	14.8
Third	13.7	12.4	19.4	14.9	18.9	*	15.4	16.4	17.0	16.9	15.8	11.4	17.9	16.9	13.1	14.3	14.7
Fourth+	21.0	16.0	23.9	17.2	19.6	19.6	18.9	*	19.2	17.3	13.7	13.7	20.0	*	15.9	19.3	16.9
Marital status																	
Married	14.8	19.5	19.9	12.4	*	10.0	14.3	12.0	14.0	14.7	10.2	11.3	10.2	13.3	13.4	13.4	16.0
Unmarried	17.5	18.1	18.9	17.4	19.8	17.2	16.8	15.0	14.9	15.8	15.9	12.1	15.5	14.5	16.5	15.0	17.6
Trimester prenatal care began																	
First trimester	14.4	17.0	18.5	12.6	17.2	15.2	13.5	13.3	14.2	13.8	14.0	12.5	12.7	12.8	16.7	14.6	17.3
After first trimester	13.6	11.0	13.7	15.8	12.5	10.9	13.5	11.8	9.7	11.3	10.4	8.1	12.7	10.5	8.6	10.9	10.1
Second trimester	13.7	11.4	14.6	17.5	13.7	11.5	11.2	10.0	10.6	11.8	11.3	*	11.8	10.2	9.0	12.7	10.6
Third trimester	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
No care	*	56.7	*	*	78.7	*	*	*	*	*	*	*	*	*	*	*	*
Prenatal care index[1]																	
Adequate plus	19.3	28.2	25.2	23.7	20.9	19.1	18.0	15.9	19.4	18.6	18.8	16.8	16.9	18.3	19.5	21.0	23.1
Adequate	8.8	8.2	11.0	8.2	12.2	7.5	*	9.8	8.3	7.3	7.9	*	*	*	10.1	*	10.3
Intermediate	*	*	13.4	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Inadequate	16.5	10.0	12.4	12.1	12.8	12.2	13.0	14.5	*	11.3	*	*	12.0	*	*	10.2	9.3
No care	*	56.7	*	*	78.7	*	*	*	*	*	*	*	*	*	*	*	*
Maternal smoking																	
Smoking	20.0	24.4	26.3	19.7	19.5	21.7	20.2	*	20.0	19.9	18.1	18.3	27.2	19.2	19.7	15.4	19.0
Not smoking	15.3	16.3	16.9	14.7	16.5	14.4	15.5	14.1	13.3	14.8	13.4	10.6	11.8	13.3	15.0	14.4	17.0

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 7. Infant mortality rate by selected characteristics among Hispanics: Indiana, 1990-2006 linked files

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
	Rate per 1,000 live births in specified group																
Total	*	*	*	12.2	*	8.7	9.2	6.5	6.9	8.0	4.6	6.6	6.8	4.9	7.7	7.1	5.2
Sex																	
Male	*	*	*	*	*	*	*	*	*	10.3	*	6.6	9.4	6.8	8.8	9.0	5.8
Female	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.6	5.2	*
Plurality																	
Single births	*	*	*	10.2	*	*	8.4	6.6	6.8	5.9	4.1	5.7	6.3	4.2	6.6	5.9	4.8
Multiple births	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Birth weight (grams)																	
<2,500	*	*	*	*	*	*	*	*	*	88.3	*	65.8	69.9	*	91.9	77.5	42.7
<1,500	*	*	*	*	*	*	*	*	*	371.0	*	246.9	293.3	*	373.6	292.9	222.2
1,500-2,499	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
>=2,500	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Gestational age (weeks)																	
<37	*	*	*	*	*	*	*	*	*	52.3	*	34.9	39.5	*	44.5	39.2	22.1
<32	*	*	*	*	*	*	*	*	*	257.7	*	165.4	225.8	*	225.8	205.0	122.0
32-36	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
>=37	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Unknown																	
Age of mother (years)																	
<20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18-19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
>=20	*	*	*	12.7	*	*	8.4	*	*	8.2	*	7.2	7.2	4.5	7.5	6.2	5.4
20-24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
25-29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
30-34	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
>=35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Age / Education (years)																	
<20 / <appropriate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<20 / appropriate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
>=20 / <12	*	*	*	*	*	*	*	*	*	*	*	*	7.1	*	8.4	6.2	*
>=20 / 12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
>=20 / >12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 7. Infant mortality rate by selected characteristics among Hispanics: Indiana, 1990-2006 linked files

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
	Rate per 1,000 live births in specified group																
Education (years)																	
<12	*	*	*	*	*	*	*	*	*	9.9	*	6.3	6.6	5.8	8.7	7.9	4.3
0-8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9-11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
=12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
>12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13-15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
>=16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Live-birth order																	
First	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.9	*
Second	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Third	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Fourth+	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Marital status																	
Married	*	*	*	*	*	*	*	*	*	*	*	*	6.5	*	8.2	7.7	*
Unmarried	*	*	*	*	*	*	*	*	*	10.1	*	7.5	7.2	*	7.3	6.6	5.4
Trimester prenatal care began																	
First trimester	*	*	*	*	*	*	*	*	*	8.3	*	5.8	6.1	*	7.5	7.8	5.8
After first trimester	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Second trimester	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Third trimester	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
No care	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Prenatal care index[1]																	
Adequate plus	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13.1	11.4
Adequate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Intermediate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Inadequate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
No care	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Maternal smoking																	
Smoking	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Not smoking	*	*	*	11.0	*	8.7	8.8	6.3	6.0	8.4	4.9	6.6	6.6	4.8	7.7	7.1	5.2

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 8. Infant, neonatal, and postneonatal mortality rates by race and Hispanic origin of mother, 3-year moving averages: Indiana, 1990-2006 linked files

Race and Hispanic origin of mother	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
All races/origins															
Infant	9.2	9.0	8.9	8.5	8.4	8.2	7.9	7.7	7.5	7.5	7.5	7.4	7.5	7.6	7.7
Neonatal	5.8	5.6	5.6	5.5	5.5	5.4	5.2	5.1	5.1	4.9	5.0	4.8	5.0	5.1	5.1
Postneonatal	3.4	3.4	3.3	3.1	2.9	2.8	2.7	2.6	2.5	2.6	2.5	2.6	2.5	2.5	2.6
White															
Infant	8.1	7.9	7.7	7.5	7.4	7.3	7.0	6.8	6.6	6.8	6.7	6.7	6.6	6.8	6.8
Neonatal	5.0	4.8	4.8	4.8	4.8	4.8	4.6	4.4	4.4	4.5	4.5	4.4	4.4	4.5	4.4
Postneonatal	3.0	3.0	3.0	2.7	2.5	2.5	2.4	2.3	2.2	2.3	2.2	2.3	2.2	2.3	2.4
Black															
Infant	18.1	17.9	17.6	16.5	16.5	15.4	15.1	14.9	14.9	13.9	13.5	13.4	14.7	14.8	15.8
Neonatal	12.4	11.9	11.5	10.9	10.8	10.2	10.0	10.1	9.9	8.7	8.4	8.7	9.9	10.4	11.0
Postneonatal	5.7	6.0	6.1	5.6	5.7	5.2	5.1	4.7	5.0	5.2	5.1	4.8	4.8	4.5	4.8
White, Non-Hispanic															
Infant	8.0	7.8	7.7	7.4	7.3	7.2	7.0	6.8	6.6	6.8	6.8	6.7	6.6	6.8	6.8
Neonatal	5.0	4.8	4.8	4.7	4.8	4.8	4.6	4.4	4.4	4.5	4.5	4.4	4.4	4.4	4.3
Postneonatal	3.0	3.0	2.9	2.7	2.5	2.5	2.4	2.4	2.2	2.3	2.3	2.3	2.3	2.4	2.4
Black, Non-Hispanic															
Infant	18.2	18.0	17.7	16.4	16.4	15.3	15.1	14.8	14.9	14.0	13.5	13.4	14.8	14.9	15.9
Neonatal	12.4	12.0	11.5	10.8	10.8	10.2	10.0	10.1	9.9	8.7	8.4	8.7	9.9	10.4	11.1
Postneonatal	5.8	6.0	6.1	5.6	5.6	5.2	5.1	4.7	5.0	5.2	5.1	4.7	4.8	4.5	4.8
Hispanic															
Infant	7.6	9.2	8.8	8.9	8.1	8.0	7.4	7.2	6.3	6.3	6.1	6.1	6.5	6.6	6.6
Neonatal	4.0	5.6	5.6	6.2	5.8	5.9	4.9	5.1	4.8	5.0	4.7	4.2	4.7	4.8	4.6
Postneonatal	3.5	3.6	3.1	*	*	*	2.5	2.1	1.5	1.3	1.4	1.9	1.8	1.8	2.0

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 9. Infant mortality rates by selected characteristics among all races, 3-year moving averages: Indiana, 1990-2006 linked files

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Total	9.2	9.0	8.9	8.5	8.4	8.2	7.9	7.7	7.5	7.5	7.5	7.4	7.5	7.6	7.7
Sex															
Male	10.4	10.2	10.1	9.6	9.3	9.0	8.7	8.6	8.3	8.3	8.0	8.2	8.2	8.4	8.2
Female	7.8	7.6	7.6	7.5	7.5	7.3	7.1	6.7	6.8	6.8	6.9	6.5	6.7	6.8	7.2
Plurality															
Single births	8.2	8.2	8.0	7.7	7.5	7.4	7.2	6.9	6.7	6.7	6.5	6.4	6.4	6.6	6.8
Multiple births	47.2	42.0	41.5	39.8	40.7	35.6	34.4	33.0	34.5	33.8	36.2	36.4	37.3	35.7	33.7
Birthweight															
Less than 2,500 grams	80.2	77.8	74.3	70.4	66.8	64.1	62.8	62.1	61.9	60.3	60.2	59.0	60.5	59.8	60.7
Less than 1,500 grams	336.2	317.2	305.4	284.1	279.1	273.4	272.4	267.3	255.2	241.8	247.5	250.3	257.9	252.6	261.4
1,500-2,499 grams	25.2	24.7	22.8	23.5	20.6	19.5	17.6	17.8	19.2	19.3	18.2	16.7	17.5	17.8	18.0
2,500 grams or more	3.8	3.7	3.8	3.5	3.4	3.2	2.9	2.7	2.6	2.8	2.7	2.7	2.6	2.6	2.6
Gestational age															
Less than 37 weeks	53.1	51.2	48.9	46.7	46.9	45.5	44.5	42.3	41.0	39.0	38.6	37.3	38.1	37.6	38.4
Less than 32 weeks	225.5	211.8	210.0	205.0	209.7	204.3	205.6	198.5	192.3	183.0	188.5	187.3	192.2	189.6	194.6
32-36 weeks	16.1	15.7	14.0	13.1	12.2	11.5	10.5	10.5	11.2	10.8	10.2	8.9	9.3	9.1	9.4
37 weeks or more	4.0	3.9	4.0	3.8	3.6	3.5	3.2	3.1	3.0	3.1	3.0	3.0	2.9	2.9	2.9
Age of mother															
Under 20 years	13.1	13.0	12.4	11.8	11.7	11.6	11.4	10.8	10.3	10.4	9.9	10.0	10.8	11.1	11.3
Under 18 years	14.9	15.3	15.2	14.1	14.4	13.4	13.2	11.8	12.3	11.5	11.2	10.5	12.6	12.4	12.9
18-19 years	12.1	11.6	10.9	10.4	10.1	10.6	10.5	10.2	9.3	9.9	9.3	9.8	9.9	10.5	10.6
20 years and over	8.5	8.3	8.3	8.0	7.8	7.6	7.3	7.2	7.1	7.1	7.1	7.1	7.1	7.2	7.3
20-24 years	9.6	9.4	9.6	9.6	9.1	8.5	8.3	8.5	8.3	8.0	8.2	8.2	8.5	8.3	8.6
25-29 years	7.5	7.6	7.5	7.4	7.5	7.2	6.8	6.1	6.1	6.3	6.5	6.3	6.3	6.5	6.7
30-34 years	7.7	7.3	6.9	6.5	6.6	6.8	6.9	6.7	6.4	6.1	5.8	5.9	5.9	6.0	6.1
35 years and over	10.2	9.9	9.5	8.1	7.8	7.6	7.1	7.6	8.0	9.2	8.7	8.2	7.6	8.3	7.8
Age/Education															
<20, less than appropriate	15.1	14.2	13.0	10.3	9.3	9.4	10.2	10.5	9.1	9.0	9.7	10.9	13.4	13.3	12.4
<20, appropriate	11.5	11.7	11.6	11.9	12.1	12.1	11.5	10.6	10.6	10.6	9.8	9.3	9.2	9.6	10.3
20+, <12 years of education	11.7	11.4	12.4	11.6	11.6	11.0	11.5	11.7	10.6	9.9	9.4	9.2	9.7	9.6	9.8
20+, 12 years of education	8.8	8.6	8.6	8.4	8.2	7.8	7.5	7.6	7.8	7.9	7.9	8.0	8.0	8.4	8.6
20+, 13+ years of education	6.7	6.7	6.5	6.2	6.1	6.0	5.6	5.1	5.2	5.4	5.6	5.5	5.4	5.5	5.5

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 9. Infant mortality rates by selected characteristics among all races, 3-year moving averages: Indiana, 1990-2006 linked files--Con.

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Educational attainment															
Less than 12 years	12.6	12.5	12.8	12.0	11.8	11.6	11.8	11.8	10.8	10.1	9.7	9.8	10.7	10.7	10.8
0-8 years	14.1	13.6	14.3	12.8	11.5	9.6	9.8	9.4	8.4	8.9	8.1	8.3	8.6	10.0	9.6
9-11 years	12.3	12.2	12.5	11.9	11.9	12.1	12.3	12.4	11.4	10.5	10.2	10.3	11.4	10.9	11.2
12 years	9.0	8.8	8.7	8.6	8.5	8.0	7.7	7.7	7.9	8.1	8.0	8.0	7.8	8.2	8.5
More than 12 years	6.7	6.7	6.5	6.2	6.1	6.0	5.7	5.2	5.2	5.5	5.7	5.5	5.4	5.5	5.5
13-15 years	6.9	7.0	7.0	7.0	6.7	6.5	6.4	6.0	6.1	6.2	6.4	6.3	6.2	6.5	6.6
16 years and over	6.5	6.3	5.9	5.3	5.4	5.5	4.9	4.3	4.3	4.8	4.9	4.7	4.6	4.5	4.5
Live-birth order															
First	8.5	8.1	7.9	8.0	8.1	8.4	7.8	7.9	7.6	7.6	7.2	7.0	7.3	7.5	7.9
Second	8.7	9.0	8.6	8.2	7.7	7.3	7.2	6.7	6.6	6.6	6.7	6.6	6.8	7.0	7.1
Third	10.0	9.6	9.5	8.5	8.9	8.5	8.3	7.7	7.7	8.0	8.2	8.0	7.2	7.0	6.7
Fourth+	11.5	11.1	12.3	11.5	11.0	9.6	9.5	9.4	9.1	9.0	8.9	9.6	10.0	10.5	10.2
Marital status															
Married	7.5	7.2	7.0	6.6	6.6	6.5	6.2	5.9	5.9	6.1	6.1	6.0	6.0	6.3	6.2
Unmarried	13.5	13.3	13.2	12.7	12.3	11.7	11.4	11.2	10.8	10.2	10.0	9.8	10.0	9.7	10.0
Trimester prenatal care began															
First trimester	8.2	8.1	7.9	7.5	7.5	7.4	7.1	6.8	6.8	7.1	6.9	6.6	6.5	6.9	7.1
After first trimester	8.8	9.0	9.9	9.7	8.9	8.3	7.8	7.9	7.5	7.2	7.1	7.3	7.5	7.2	7.1
Second trimester	8.9	9.3	10.3	10.3	9.2	8.2	7.5	7.8	7.4	7.2	7.0	7.5	7.7	7.5	7.4
Third trimester	8.7	7.0	7.5	6.6	7.4	8.8	9.4	8.1	8.0	6.9	7.6	6.2	6.4	5.9	5.7
No care	41.7	41.5	44.8	44.4	43.6	42.0	46.9	45.6	43.5	31.0	33.7	37.4	50.2	46.0	37.6
Prenatal care index[1]															
Adequate plus	14.4	14.4	14.0	13.3	12.3	11.5	10.7	10.7	10.4	10.6	10.0	9.8	9.7	10.4	10.8
Adequate	5.0	5.0	4.9	4.5	4.4	4.3	4.1	3.6	3.6	3.9	4.0	3.7	3.6	3.6	3.8
Intermediate	6.0	5.9	5.9	5.6	5.3	5.1	4.7	4.3	3.9	4.2	4.4	4.8	4.7	4.7	4.7
Inadequate	9.3	8.6	9.5	9.4	9.1	8.5	7.8	7.6	7.4	7.0	7.0	6.8	6.9	6.8	6.6
No care	41.7	41.5	44.8	44.4	43.6	42.0	46.9	45.6	43.5	31.0	33.7	37.4	50.2	46.0	37.6
Unknown	35.7	35.5	32.3	30.5	30.3	29.6	31.1	33.5	38.2	37.1	41.9	44.0	48.1	42.1	38.7
Maternal smoking															
Smoking	11.9	11.5	11.8	11.4	11.5	10.8	11.0	10.7	10.8	10.4	10.8	10.9	11.1	10.3	10.2
Not smoking	8.0	8.0	7.8	7.5	7.4	7.4	7.0	6.8	6.6	6.7	6.6	6.5	6.7	7.0	7.2

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 10. Infant mortality rates by selected characteristics among whites, 3-year moving averages: Indiana, 1990-2006 linked files

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Total	8.1	7.9	7.7	7.5	7.4	7.3	7.0	6.8	6.6	6.8	6.7	6.7	6.6	6.8	6.8
Sex															
Male	9.2	9.0	8.8	8.4	8.2	8.1	7.8	7.7	7.4	7.5	7.2	7.4	7.2	7.5	7.3
Female	6.8	6.6	6.6	6.6	6.5	6.5	6.2	5.8	5.8	6.0	6.2	5.9	6.0	6.0	6.2
Plurality															
Single births	7.2	7.1	7.0	6.8	6.6	6.6	6.3	6.1	5.8	5.9	5.8	5.8	5.7	5.9	6.0
Multiple births	42.2	38.0	37.0	36.2	35.9	32.5	31.3	30.0	32.2	32.1	34.1	32.5	33.0	32.0	30.0
Birthweight															
Less than 2,500 grams	75.5	72.2	69.5	66.8	63.8	61.6	59.8	58.3	58.3	58.0	58.5	56.4	56.1	54.9	54.9
Less than 1,500 grams	326.8	299.6	295.5	275.5	272.8	264.8	261.9	255.1	247.2	237.5	244.9	244.9	248.1	241.7	247.4
1,500-2,499 grams	26.0	25.1	22.6	23.4	21.2	20.7	18.7	18.4	19.0	19.9	18.6	17.2	16.8	17.3	17.1
2,500 grams or more	3.6	3.5	3.5	3.2	3.1	2.9	2.7	2.5	2.4	2.6	2.6	2.6	2.4	2.6	2.5
Gestational age															
Less than 37 weeks	49.0	46.4	44.3	42.7	42.9	42.3	41.0	38.7	37.6	36.6	36.0	34.3	34.1	33.7	33.4
Less than 32 weeks	220.8	202.9	204.5	200.0	205.6	201.3	201.2	191.8	185.4	179.8	184.3	180.7	179.8	177.3	178.7
32-36 weeks	15.9	15.3	13.6	12.9	12.0	11.6	10.4	10.4	10.9	11.0	10.2	9.1	9.0	9.1	9.0
37 weeks or more	3.8	3.7	3.7	3.5	3.3	3.2	3.0	2.8	2.7	2.9	2.8	2.8	2.7	2.8	2.8
Age of mother															
Under 20 years	11.6	11.3	10.7	10.4	10.1	10.4	10.3	10.0	9.5	9.3	8.7	8.9	10.0	10.5	10.8
Under 18 years	12.9	12.9	13.1	12.9	13.1	12.9	12.3	10.9	11.2	9.9	9.5	8.5	11.8	11.9	12.8
18-19 years	11.0	10.6	9.5	9.2	8.5	9.1	9.2	9.5	8.7	9.0	8.3	9.0	9.3	9.9	10.0
20 years and over	7.5	7.4	7.3	7.1	7.0	6.8	6.6	6.3	6.2	6.4	6.5	6.4	6.2	6.4	6.3
20-24 years	8.5	8.4	8.4	8.3	7.8	7.5	7.3	7.4	7.1	7.2	7.4	7.5	7.4	7.3	7.3
25-29 years	6.9	6.8	6.7	6.7	6.9	6.7	6.2	5.5	5.4	5.7	5.9	5.6	5.4	5.7	5.7
30-34 years	6.8	6.3	6.1	5.7	5.9	6.2	6.4	6.0	5.8	5.6	5.6	5.7	5.4	5.5	5.5
35 years and over	8.8	8.5	8.7	7.5	7.1	6.6	5.8	6.4	6.8	8.3	7.6	7.2	7.0	7.8	7.2
Age/Education															
<20, less than appropriate	14.2	13.2	12.5	10.3	8.0	7.2	8.0	9.4	8.7	8.4	8.7	10.5	13.2	13.6	12.4
<20, appropriate	10.1	10.1	9.7	10.3	10.7	11.6	11.0	10.1	9.8	9.4	8.5	7.9	8.2	8.6	9.5
20+, <12 years of education	10.5	10.3	11.2	10.8	10.6	10.1	10.7	11.0	9.8	9.5	8.8	8.7	8.8	8.6	8.7
20+, 12 years of education	7.9	7.7	7.6	7.5	7.4	7.1	6.6	6.7	6.7	7.0	7.1	7.3	7.2	7.7	7.7
20+, 13+ years of education	5.9	5.9	5.8	5.5	5.4	5.4	5.0	4.5	4.6	5.0	5.1	4.9	4.6	4.7	4.6

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 10. Infant mortality rates by selected characteristics among whites, 3-year moving averages: Indiana, 1990-2006 linked files--Con.

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Educational attainment															
Less than 12 years	11.4	11.2	11.6	11.3	10.7	10.6	10.9	11.0	10.0	9.5	8.9	9.1	9.7	9.8	9.9
0-8 years	12.4	12.3	13.6	12.8	10.9	8.8	9.0	8.5	7.9	8.7	8.3	8.4	8.5	10.0	9.5
9-11 years	11.2	11.0	11.1	10.9	10.7	11.0	11.4	11.7	10.6	9.7	9.1	9.3	10.2	9.8	10.0
12 years	8.1	7.8	7.7	7.5	7.5	7.3	6.9	6.9	6.9	7.2	7.2	7.3	7.1	7.6	7.6
More than 12 years	5.9	5.9	5.8	5.5	5.4	5.4	5.1	4.6	4.7	5.0	5.1	4.9	4.6	4.7	4.6
13-15 years	5.8	6.1	6.1	6.1	5.7	5.6	5.4	5.1	5.3	5.4	5.6	5.5	5.1	5.3	5.0
16 years and over	6.0	5.7	5.4	4.9	5.2	5.3	4.7	4.1	4.0	4.6	4.7	4.4	4.2	4.2	4.2
Live-birth order															
First	7.4	7.1	7.0	7.2	7.3	7.6	7.0	7.1	6.9	6.9	6.7	6.5	6.6	6.7	6.9
Second	7.7	7.9	7.6	7.3	6.7	6.4	6.5	6.1	6.0	6.0	6.1	6.0	6.0	6.3	6.5
Third	9.3	8.8	8.5	7.5	7.9	7.6	7.2	6.5	6.5	7.1	7.2	7.0	6.1	6.1	5.7
Fourth+	9.5	9.3	10.5	9.9	9.4	8.3	8.1	8.0	7.6	7.9	7.5	8.5	8.9	9.5	8.8
Marital status															
Married	7.1	6.8	6.6	6.4	6.3	6.2	5.9	5.6	5.5	5.9	6.0	5.9	5.8	6.1	6.0
Unmarried	11.5	11.3	11.1	10.7	10.3	10.2	9.9	9.8	9.2	8.8	8.4	8.3	8.3	8.1	8.2
Trimester prenatal care began															
First trimester	7.5	7.3	7.1	6.8	6.8	6.7	6.4	6.1	6.0	6.4	6.3	6.1	5.8	6.1	6.2
After first trimester	7.9	8.0	9.0	9.0	8.2	7.5	7.0	7.2	6.9	6.6	6.5	6.7	6.9	6.7	6.5
Second trimester	7.9	8.2	9.2	9.4	8.6	7.6	6.9	7.2	6.7	6.6	6.4	7.0	7.3	6.9	6.6
Third trimester	8.1	6.8	7.5	6.5	6.0	6.9	7.7	7.4	8.2	6.9	7.2	5.1	5.4	5.8	5.9
No care	33.0	31.2	32.1	32.2	30.6	32.8	40.7	40.7	36.2	24.0	26.5	31.5	46.1	40.9	29.5
Prenatal care index[1]															
Adequate plus	13.3	13.1	12.9	12.4	11.5	10.8	9.8	9.8	9.4	9.8	9.1	8.9	8.7	9.4	9.7
Adequate	4.7	4.7	4.4	4.1	4.0	3.9	3.7	3.2	3.3	3.6	3.8	3.5	3.3	3.2	3.4
Intermediate	5.3	5.1	5.0	4.9	4.8	4.8	4.6	4.2	3.6	4.0	4.0	4.5	4.1	4.2	4.2
Inadequate	8.4	7.8	8.7	8.7	8.3	7.5	6.9	6.8	6.9	6.5	6.4	6.1	6.4	6.4	6.1
No care	33.0	31.2	32.1	32.2	30.6	32.8	40.7	40.7	36.2	24.0	26.5	31.5	46.1	40.9	29.5
Unknown	33.0	32.0	28.5	27.0	27.1	27.6	29.6	30.6	34.5	34.1	40.3	42.8	46.0	41.2	35.4
Maternal smoking															
Smoking	10.7	10.3	10.8	10.6	10.7	10.1	10.3	10.0	10.0	9.6	9.8	9.9	10.1	9.6	9.4
Not smoking	7.0	6.9	6.7	6.5	6.3	6.4	6.0	5.8	5.6	5.9	5.9	5.9	5.8	6.1	6.1

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 11. Infant mortality rates by selected characteristics among blacks, 3-year moving averages: Indiana, 1990-2006 linked files

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Total	18.1	17.9	17.6	16.5	16.5	15.4	15.1	14.9	14.9	13.9	13.5	13.4	14.7	14.8	15.8
Sex															
Male	20.4	20.2	20.0	18.3	18.0	16.9	16.0	16.0	16.0	15.3	14.9	15.1	16.1	16.0	15.8
Female	15.7	15.5	15.1	14.6	14.9	13.9	14.1	13.6	13.7	12.4	11.9	11.6	13.2	13.7	15.9
Plurality															
Single births	16.3	16.4	16.0	15.1	14.8	14.1	13.7	13.4	13.7	12.8	12.3	11.6	12.8	12.8	14.0
Multiple births	84.3	71.6	72.0	65.2	74.3	57.7	58.1	57.9	51.0	45.1	44.6	60.7	66.6	67.6	62.3
Birthweight															
Less than 2,500 grams	99.1	98.7	92.8	85.1	81.2	75.9	75.5	77.7	77.4	71.2	68.2	71.3	79.8	84.7	88.1
Less than 1,500 grams	360.2	367.6	333.3	315.4	306.7	308.4	306.6	303.8	278.8	259.5	256.4	268.1	287.8	293.5	312.1
1,500-2,499 grams	22.5	22.8	23.1	23.6	18.2	14.4	13.0	15.2	19.3	15.8	15.9	14.8	21.0	21.1	22.0
2,500 grams or more	5.7	5.4	5.9	5.3	5.6	4.9	4.7	4.5	4.8	4.8	4.5	4.1	3.9	3.3	3.4
Gestational age															
Less than 37 weeks	70.2	71.1	68.3	64.4	64.5	59.7	59.6	58.9	57.2	51.5	51.5	52.8	59.3	60.0	65.8
Less than 32 weeks	237.3	234.8	224.1	218.8	221.8	213.0	217.0	216.9	211.9	193.7	198.1	205.7	230.9	237.1	252.2
32-36 weeks	17.4	18.2	16.7	14.0	12.7	10.7	10.9	10.5	11.9	9.3	10.4	8.9	11.4	9.7	12.1
37 weeks or more	6.0	5.7	6.1	5.7	5.7	5.3	5.0	5.0	5.4	5.5	4.9	4.4	4.4	4.3	4.1
Age of mother															
Under 20 years	18.5	18.8	18.8	17.0	18.1	16.9	16.5	14.3	13.4	15.0	14.8	15.1	14.2	14.0	13.8
Under 18 years	20.7	22.0	20.6	17.5	18.4	15.6	16.6	15.3	16.5	17.4	16.9	17.0	15.3	14.7	14.0
18-19 years	16.6	16.1	17.2	16.6	17.9	18.0	16.4	13.5	11.4	13.5	13.5	13.9	13.5	13.6	13.7
20 years and over	17.9	17.5	17.1	16.3	15.9	14.9	14.6	15.1	15.4	13.6	13.2	13.0	14.9	15.1	16.3
20-24 years	17.6	16.3	17.5	17.6	17.3	14.8	14.3	14.8	15.2	12.8	12.6	12.5	15.2	14.8	16.5
25-29 years	15.7	17.2	16.3	15.0	13.6	13.7	12.8	13.1	13.4	12.8	12.9	13.1	15.6	16.1	16.9
30-34 years	19.7	18.8	18.1	15.4	15.3	14.3	14.8	15.6	16.3	13.4	10.4	10.3	12.6	14.1	15.1
35 years and over	26.0	23.8	15.7	14.7	16.4	19.6	21.7	21.8	21.8	21.2	22.3	20.2	14.7	14.8	16.1
Age/Education															
<20, less than appropriate	20.3	19.7	16.1	*	17.5	24.3	24.2	17.9	*	*	*	*	*	*	*
<20, appropriate	16.2	16.7	18.1	17.2	17.1	14.0	13.4	12.5	13.1	14.5	14.1	14.7	13.3	13.5	13.4
20+, <12 years of education	20.3	19.3	21.2	17.3	19.0	17.4	17.4	16.9	16.7	12.8	13.3	13.4	17.7	17.6	17.9
20+, 12 years of education	17.1	16.9	16.4	16.0	15.3	14.2	13.8	14.4	15.9	14.3	13.5	13.3	13.7	13.4	15.1
20+, 13+ years of education	16.1	16.2	15.1	14.4	13.8	13.0	12.8	13.1	12.7	11.9	11.8	11.9	14.3	15.2	16.5

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 11. Infant mortality rates by selected characteristics among blacks, 3-year moving averages: Indiana, 1990-2006 linked files--Con.

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Educational attainment															
Less than 12 years	18.6	18.5	19.0	16.0	18.1	17.6	17.2	16.1	15.1	14.0	14.4	14.8	17.1	16.6	16.7
0-8 years	32.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9-11 years	17.5	17.8	18.7	16.1	17.8	17.2	16.6	15.6	15.0	14.2	15.2	15.5	17.5	16.8	16.8
12 years	16.6	16.7	16.8	16.4	15.6	13.8	13.5	13.4	15.1	14.1	13.3	12.9	12.9	12.9	14.3
More than 12 years	16.3	16.1	15.1	14.4	13.8	13.1	12.8	13.2	12.7	12.0	11.9	11.9	14.2	15.0	16.4
13-15 years	15.7	15.1	14.8	14.4	14.9	14.2	13.9	14.1	13.2	12.8	12.4	12.4	15.4	16.4	18.7
16 years and over	18.9	19.7	16.3	14.5	*	*	9.8	10.7	11.2	9.8	10.5	10.6	11.4	11.4	11.0
Live-birth order															
First	18.1	17.5	16.5	15.2	15.5	15.2	14.5	14.6	14.6	14.3	12.3	12.1	13.5	15.2	17.2
Second	18.1	18.3	16.9	16.5	16.4	15.1	14.1	13.0	12.6	12.2	12.4	12.9	14.9	14.0	14.3
Third	15.1	15.5	17.6	16.0	16.4	15.6	16.4	16.7	16.4	14.6	15.0	15.3	15.9	14.7	14.0
Fourth+	20.3	19.0	20.2	18.7	19.2	16.4	16.4	16.0	16.6	14.8	15.8	15.1	15.8	15.7	17.3
Marital status															
Married	17.9	17.2	14.0	10.9	11.5	12.3	13.5	13.6	12.9	11.9	10.5	11.7	12.3	13.4	14.2
Unmarried	18.2	18.1	18.6	18.1	18.0	16.3	15.6	15.2	15.5	14.6	14.5	14.0	15.4	15.3	16.3
Trimester prenatal care began															
First trimester	16.6	15.9	16.0	15.0	15.3	14.0	13.7	13.8	14.0	13.4	13.0	12.7	14.1	14.7	16.1
After first trimester	12.7	13.4	14.0	13.1	12.4	12.1	11.7	10.9	10.4	10.0	10.4	10.4	10.5	10.0	9.9
Second trimester	13.1	14.4	15.3	14.3	12.2	11.0	10.7	10.8	11.2	10.6	10.6	10.2	10.3	10.7	10.8
Third trimester	*	*	*	*	*	18.3	16.6	*	*	*	*	*	*	*	*
No care	58.3	60.1	67.9	68.7	71.6	62.7	60.7	57.8	60.3	48.1	49.3	50.6	59.6	57.9	56.2
Prenatal care index[1]															
Adequate plus	24.0	25.5	23.2	21.1	19.2	17.5	17.9	18.1	19.0	18.0	17.4	17.3	18.2	19.5	21.1
Adequate	9.4	9.1	10.4	9.4	9.3	8.5	8.6	8.4	7.7	7.3	6.8	6.4	7.5	7.6	8.9
Intermediate	11.5	11.7	11.4	10.5	9.7	7.9	6.1	*	6.9	7.0	8.7	8.3	9.5	9.7	8.9
Inadequate	12.9	11.4	12.4	12.3	12.8	13.3	11.8	11.0	9.4	9.5	9.7	10.1	10.0	9.4	9.1
No care	58.3	60.1	67.9	68.7	71.6	62.7	60.7	57.8	60.3	48.1	49.3	50.6	59.6	57.9	56.2
Unknown	45.3	48.4	41.0	37.3	35.8	35.7	37.5	45.1	51.0	46.4	43.5	47.1	57.7	51.3	60.2
Maternal smoking															
Smoking	23.3	23.5	21.9	20.1	20.6	19.1	18.8	18.5	19.5	18.7	21.1	21.4	21.9	18.0	17.9
Not smoking	16.2	15.9	16.0	15.2	15.5	14.7	14.3	14.1	13.8	12.9	11.9	11.9	13.4	14.2	15.4

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services

Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 12. Infant mortality rates by selected characteristics among non-Hispanic whites, 3-year moving averages: Indiana, 1990-2006 linked files

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Total	8.0	7.8	7.7	7.4	7.3	7.2	7.0	6.8	6.6	6.8	6.8	6.7	6.6	6.8	6.8
Sex															
Male	9.1	8.9	8.7	8.3	8.1	8.0	7.8	7.7	7.4	7.6	7.2	7.4	7.1	7.4	7.3
Female	6.8	6.6	6.6	6.6	6.5	6.4	6.1	5.8	5.8	6.0	6.3	6.0	6.1	6.2	6.3
Plurality															
Single births	7.2	7.1	7.0	6.7	6.6	6.6	6.3	6.1	5.8	6.0	5.8	5.8	5.7	5.9	6.0
Multiple births	42.3	37.5	36.3	34.6	34.2	31.1	30.9	29.1	31.3	31.0	33.8	32.2	32.4	30.6	28.7
Birthweight															
Less than 2,500 grams	75.6	72.0	69.2	66.3	63.3	60.9	59.4	57.9	58.2	57.6	58.2	56.5	55.2	53.4	53.4
Less than 1,500 grams	328.6	300.6	295.7	273.4	270.1	262.4	260.1	252.3	243.8	234.0	242.9	244.9	243.0	236.0	241.0
1,500-2,499 grams	26.0	25.0	22.6	23.4	21.6	21.0	19.4	19.0	19.8	20.5	19.1	17.6	16.9	16.8	16.8
2,500 grams or more	3.6	3.5	3.5	3.2	3.1	3.0	2.7	2.5	2.4	2.6	2.6	2.6	2.5	2.6	2.6
Gestational age															
Less than 37 weeks	49.2	46.3	44.4	42.6	42.8	42.0	40.8	38.4	37.6	36.6	36.1	34.7	33.9	33.5	33.3
Less than 32 weeks	223.1	203.2	205.3	198.9	204.8	199.4	199.8	189.5	184.5	179.7	184.9	181.1	177.0	175.2	177.6
32-36 weeks	15.9	15.2	13.6	13.1	12.5	12.0	10.8	10.8	11.3	11.4	10.6	9.5	9.4	9.3	9.3
37 weeks or more	3.8	3.7	3.7	3.5	3.3	3.3	3.0	2.9	2.7	2.9	2.8	2.9	2.7	2.8	2.8
Age of mother															
Under 20 years	11.7	11.4	10.8	10.5	10.1	10.2	10.0	9.8	9.6	9.7	9.1	9.2	10.3	10.6	11.2
Under 18 years	12.9	13.3	13.4	13.0	13.0	12.7	12.0	10.8	10.9	9.8	9.6	9.2	12.6	11.7	12.9
18-19 years	11.1	10.5	9.4	9.2	8.5	8.8	9.0	9.4	9.1	9.6	8.8	9.3	9.5	10.1	10.5
20 years and over	7.5	7.3	7.3	7.0	6.9	6.8	6.6	6.3	6.2	6.4	6.5	6.4	6.2	6.4	6.3
20-24 years	8.5	8.3	8.4	8.2	7.8	7.5	7.4	7.5	7.2	7.3	7.6	7.7	7.6	7.6	7.5
25-29 years	6.8	6.8	6.7	6.7	6.9	6.7	6.2	5.5	5.4	5.6	5.8	5.5	5.4	5.7	5.8
30-34 years	6.8	6.3	6.0	5.6	5.9	6.2	6.4	6.0	5.8	5.6	5.7	5.8	5.5	5.5	5.4
35 years and over	8.5	8.4	8.6	7.4	7.0	6.5	5.6	6.2	6.8	8.1	7.4	6.9	6.6	7.2	6.6
Age/Education															
<20, less than appropriate	14.4	13.1	12.4	10.0	8.1	7.1	8.1	9.3	9.2	9.2	9.9	11.8	15.1	14.9	13.4
<20, appropriate	10.0	10.3	9.8	10.5	10.6	11.3	10.6	9.9	9.7	9.6	8.5	7.9	8.0	8.4	9.7
20+, <12 years of education	10.5	10.2	11.2	10.9	10.9	10.6	11.6	11.8	10.5	10.3	9.8	9.5	9.4	9.4	9.9
20+, 12 years of education	8.0	7.7	7.6	7.4	7.3	7.1	6.7	6.6	6.6	7.0	7.1	7.4	7.3	7.9	7.8
20+, 13+ years of education	5.9	5.9	5.8	5.5	5.3	5.3	4.9	4.5	4.6	5.0	5.1	4.9	4.6	4.7	4.5

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 12. Infant mortality rates by selected characteristics among non-Hispanic whites, 3-year moving averages: Indiana, 1990-2006 linked files--Con.

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Educational attainment															
Less than 12 years	11.4	11.2	11.6	11.3	10.9	10.8	11.3	11.5	10.5	10.1	9.7	9.9	10.6	10.6	11.0
0-8 years	12.1	11.6	13.2	12.5	11.5	9.5	10.4	9.5	8.5	9.0	9.3	10.0	10.0	11.7	11.0
9-11 years	11.3	11.2	11.3	11.0	10.8	11.1	11.5	11.9	11.0	10.4	9.8	9.9	10.8	10.4	11.0
12 years	8.1	7.8	7.6	7.4	7.5	7.3	6.9	6.8	6.9	7.2	7.2	7.4	7.2	7.7	7.8
More than 12 years	5.9	5.9	5.8	5.5	5.4	5.4	4.9	4.6	4.7	5.1	5.1	4.9	4.6	4.7	4.5
13-15 years	5.8	6.1	6.2	6.1	5.6	5.5	5.3	5.0	5.3	5.5	5.7	5.5	5.1	5.3	4.9
16 years and over	6.0	5.6	5.4	4.8	5.1	5.2	4.6	4.1	4.1	4.6	4.7	4.4	4.2	4.2	4.2
Live-birth order															
First	7.4	7.1	7.0	7.2	7.3	7.5	7.0	7.0	6.9	7.0	6.8	6.5	6.6	6.6	6.9
Second	7.6	7.8	7.4	7.1	6.6	6.4	6.5	6.1	6.1	6.1	6.2	6.1	6.2	6.6	6.6
Third	9.3	8.9	8.6	7.5	7.8	7.6	7.3	6.5	6.5	7.3	7.4	7.2	6.2	6.1	5.8
Fourth+	9.6	9.1	10.3	9.6	9.2	8.3	8.1	7.8	7.5	7.7	7.4	8.6	8.6	9.2	8.3
Marital status															
Married	7.1	6.7	6.6	6.3	6.3	6.2	5.9	5.6	5.6	5.9	6.0	5.9	5.7	6.0	5.9
Unmarried	11.6	11.4	11.1	10.6	10.2	10.1	9.9	9.8	9.3	9.0	8.6	8.7	8.7	8.5	8.6
Trimester prenatal care began															
First trimester	7.4	7.3	7.1	6.8	6.7	6.7	6.4	6.1	6.0	6.5	6.3	6.1	5.8	6.1	6.1
After first trimester	8.0	8.0	8.9	8.9	8.5	7.8	7.4	7.5	7.0	6.9	6.8	7.3	7.5	7.3	7.1
Second trimester	7.9	8.1	9.2	9.4	8.9	7.9	7.2	7.4	6.7	6.7	6.6	7.5	7.8	7.4	7.0
Third trimester	8.6	7.0	7.7	6.3	6.2	7.3	8.4	8.0	9.0	7.9	8.6	5.8	6.1	6.7	7.3
No care	33.6	31.1	29.9	29.9	27.4	30.9	39.4	41.3	39.1	22.3	25.4	31.5	49.4	43.2	30.7
Prenatal care index[⊥]															
Adequate plus	13.2	13.0	12.9	12.5	11.5	10.8	9.7	9.8	9.4	9.9	9.2	9.0	8.6	9.3	9.4
Adequate	4.7	4.7	4.3	4.0	4.0	3.9	3.7	3.2	3.3	3.6	3.8	3.6	3.3	3.3	3.4
Intermediate	5.3	5.1	4.9	4.9	4.8	4.8	4.5	4.0	3.5	3.9	4.1	4.6	4.3	4.2	4.0
Inadequate	8.6	8.1	9.0	8.8	8.6	7.7	7.3	7.0	7.1	6.9	6.9	6.8	6.9	7.1	6.7
No care	33.6	31.1	29.9	29.9	27.4	30.9	39.4	41.3	39.1	22.3	25.4	31.5	49.4	43.2	30.7
Unknown	33.1	32.4	29.0	27.4	27.1	27.7	29.7	31.5	36.0	36.5	42.8	44.7	46.7	42.5	37.2
Maternal smoking															
Smoking	10.7	10.2	10.6	10.5	10.7	10.2	10.3	10.0	10.1	9.7	9.8	9.9	10.2	9.7	9.5
Not smoking	7.0	6.9	6.6	6.4	6.2	6.3	6.0	5.7	5.6	5.9	5.3	5.2	5.1	6.0	6.1

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 13. Infant mortality rates by selected characteristics among non-Hispanic blacks, 3-year moving averages: Indiana, 1990-2006 linked files

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Total	18.2	18.0	17.7	16.4	16.4	15.3	15.1	14.8	14.9	14.0	13.5	13.4	14.8	14.9	15.9
Sex															
Male	20.5	20.3	20.1	18.2	17.9	16.8	15.9	15.9	16.0	15.4	15.0	15.1	16.1	16.0	15.9
Female	15.7	15.5	15.2	14.6	14.9	13.8	14.1	13.7	13.8	12.4	11.9	11.5	13.3	13.7	16.0
Plurality															
Single births	16.3	16.5	16.1	15.0	14.7	14.1	13.7	13.4	13.7	12.8	12.3	11.6	12.8	12.9	14.1
Multiple births	84.5	71.8	72.1	65.6	75.0	58.1	58.3	57.9	51.0	45.1	44.6	60.7	66.6	67.7	62.6
Birthweight															
Less than 2,500 grams	99.3	99.0	93.1	84.7	80.9	75.5	75.6	77.7	77.4	71.4	68.4	71.1	79.7	84.7	88.4
Less than 1,500 grams	360.3	368.1	333.8	313.9	305.6	307.4	307.0	304.6	279.9	260.4	257.0	268.5	288.5	294.2	312.8
1,500-2,499 grams	22.6	22.9	23.1	23.4	18.0	14.1	12.7	14.9	19.0	15.9	16.0	14.5	20.7	20.8	22.1
2,500 grams or more	5.7	5.5	5.9	5.3	5.6	4.9	4.7	4.5	4.8	4.8	4.5	4.1	3.9	3.3	3.5
Gestational age															
Less than 37 weeks	70.4	71.4	68.5	64.2	64.3	59.4	59.6	58.9	57.3	51.8	51.8	53.0	59.5	60.3	66.1
Less than 32 weeks	237.6	235.5	224.4	217.7	221.0	212.2	217.1	217.2	212.4	194.7	198.8	206.2	231.5	237.7	253.0
32-36 weeks	17.4	18.2	16.7	14.1	12.7	10.7	10.9	10.5	12.0	9.3	10.4	8.9	11.4	9.7	12.2
37 weeks or more	6.0	5.7	6.1	5.7	5.6	5.3	4.9	4.9	5.4	5.5	4.9	4.4	4.4	4.2	4.1
Age of mother															
Under 20 years	18.6	18.9	18.8	17.1	18.2	17.0	16.6	14.3	13.5	14.9	14.7	14.9	14.3	14.0	13.9
Under 18 years	20.9	22.1	20.7	17.5	18.5	15.6	16.7	15.4	16.6	17.1	16.5	16.6	15.4	14.8	14.1
18-19 years	16.7	16.2	17.2	16.7	18.0	18.1	16.5	13.6	11.4	13.6	13.6	14.0	13.6	13.6	13.8
20 years and over	17.9	17.6	17.2	16.2	15.8	14.7	14.5	15.0	15.4	13.7	13.2	13.0	14.9	15.1	16.4
20-24 years	17.5	16.3	17.5	17.7	17.3	14.8	14.2	14.9	15.2	12.9	12.6	12.5	15.2	14.8	16.6
25-29 years	15.7	17.3	16.3	14.7	13.3	13.4	12.7	13.0	13.3	12.9	13.0	13.1	15.7	16.2	17.0
30-34 years	19.8	18.9	18.1	15.5	15.4	14.4	14.8	15.7	16.4	13.5	10.4	10.4	12.6	14.2	15.2
35 years and over	26.2	23.9	15.8	14.2	16.0	19.1	21.3	21.4	21.4	21.2	22.4	20.3	14.7	14.9	16.2
Age/Education															
<20, less than appropriate	20.5	19.8	16.2	*	17.5	24.4	24.2	18.0	*	*	*	*	*	*	*
<20, appropriate	16.3	16.7	18.1	17.3	17.2	14.0	13.5	12.5	13.2	14.3	13.9	14.6	13.3	13.6	13.5
20+, <12 years of education	20.4	19.3	21.3	17.4	18.9	17.2	17.2	17.0	16.7	12.9	13.4	13.3	17.6	17.4	18.0
20+, 12 years of education	17.2	16.9	16.4	15.8	15.1	14.0	13.8	14.5	16.0	14.3	13.5	13.4	13.8	13.5	15.2
20+, 13+ years of education	16.1	16.3	15.1	14.4	13.9	13.1	12.6	12.9	12.6	12.0	11.8	11.9	14.4	15.3	16.6

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 13. Infant mortality rates by selected characteristics among non-Hispanic blacks, 3-year moving averages: Indiana, 1990-2006 linked files--Con.

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Educational attainment															
Less than 12 years	18.8	18.6	19.0	16.1	18.0	17.5	17.1	16.2	15.2	13.9	14.3	14.6	17.1	16.6	16.7
0-8 years	32.6	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9-11 years	17.6	17.8	18.8	16.2	17.8	17.2	16.6	15.7	15.0	14.1	15.1	15.4	17.5	16.8	16.9
12 years	16.7	16.7	16.8	16.3	15.5	13.6	13.6	13.5	15.1	14.1	13.4	12.9	12.9	12.9	14.4
More than 12 years	16.4	16.1	15.2	14.5	13.9	13.1	12.7	13.1	12.6	12.0	11.9	12.0	14.3	15.1	16.5
13-15 years	15.7	15.1	14.8	14.5	15.0	14.3	13.6	13.8	13.0	12.8	12.5	12.5	15.4	16.5	18.8
16 years and over	19.0	19.7	16.3	14.6	*	*	9.8	10.8	11.4	9.9	10.5	10.6	11.4	11.5	11.0
Live-birth order															
First	18.2	17.5	16.5	15.3	15.5	15.3	14.5	14.6	14.6	14.3	12.2	12.0	13.4	15.2	17.3
Second	18.1	18.4	16.9	16.6	16.5	15.2	14.0	13.0	12.6	12.2	12.4	12.9	15.0	14.1	14.4
Third	15.1	15.5	17.6	15.6	15.9	15.0	16.3	16.8	16.5	14.7	15.0	15.4	16.0	14.8	14.1
Fourth+	20.4	19.1	20.3	18.8	19.4	16.5	16.5	16.0	16.6	14.8	15.8	15.1	15.9	15.8	17.4
Marital status															
Married	18.0	17.3	14.1	10.6	11.2	12.1	13.4	13.6	12.9	12.0	10.6	11.6	12.3	13.3	14.3
Unmarried	18.2	18.1	18.7	18.1	18.0	16.3	15.6	15.2	15.5	14.6	14.5	14.0	15.5	15.4	16.4
Trimester prenatal care began															
First trimester	16.6	16.0	16.1	15.0	15.3	14.0	13.6	13.7	14.0	13.4	13.0	12.7	14.1	14.7	16.2
After first trimester	12.7	13.4	14.0	13.2	12.3	12.1	11.6	10.9	10.5	9.9	10.3	10.4	10.5	10.0	9.9
Second trimester	13.2	14.4	15.3	14.4	12.2	10.9	10.6	10.8	11.2	10.5	10.5	10.1	10.3	10.7	10.8
Third trimester	*	*	*	*	*	18.4	16.7	*	*	*	*	*	*	*	*
No care	58.4	60.2	67.9	68.8	71.8	62.9	60.9	57.8	60.3	48.1	49.3	50.7	59.9	58.2	56.5
Prenatal care index[1]															
Adequate plus	24.2	25.6	23.2	21.2	19.3	17.6	17.8	18.0	18.9	18.1	17.5	17.3	18.3	19.6	21.2
Adequate	9.4	9.2	10.4	9.3	9.2	8.4	8.7	8.4	7.8	7.2	6.7	6.2	7.5	7.5	8.9
Intermediate	11.5	11.7	11.5	10.5	9.8	7.9	6.2	*	6.9	7.0	8.7	8.3	9.5	9.7	8.9
Inadequate	12.9	11.4	12.4	12.4	12.7	13.2	11.6	11.1	9.4	9.6	9.8	10.2	10.1	9.5	9.2
No care	58.4	60.2	67.9	68.8	71.8	62.9	60.9	57.8	60.3	48.1	49.3	50.7	59.9	58.2	56.5
Unknown	45.0	48.7	41.2	36.5	35.2	35.1	37.3	44.8	50.8	47.0	44.1	47.7	58.1	51.8	60.7
Maternal smoking															
Smoking	23.4	23.5	22.0	20.2	20.4	18.9	18.4	18.3	19.4	18.8	21.1	21.5	22.0	18.1	18.0
Not smoking	16.2	16.0	16.0	15.2	15.5	14.7	14.3	14.1	13.8	12.9	12.0	11.9	13.4	14.2	15.5

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services

Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 14. Infant mortality rates by selected characteristics among Hispanics, 3-year moving averages: Indiana, 1990-2006 linked files

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Total	7.6	9.2	8.8	8.9	8.1	8.0	7.4	7.2	6.3	6.3	6.1	6.1	6.5	6.6	6.6
Sex															
Male	9.4	11.6	10.3	10.7	9.1	8.8	8.2	8.4	7.1	6.6	6.7	7.6	8.3	8.3	7.8
Female	*	*	7.1	7.0	7.0	7.2	6.5	5.9	5.6	6.0	5.5	4.5	4.6	4.9	5.4
Plurality															
Single births	7.2	8.2	7.5	7.2	6.8	7.2	7.2	6.4	5.4	5.2	5.4	5.4	5.7	5.6	5.7
Multiple births	*	*	*	*	*	*	*	*	*	*	*	*	*	51.5	46.4
Birthweight															
Less than 2,500 grams	64.9	80.7	80.5	78.5	68.1	68.2	59.6	65.5	60.4	68.7	63.9	58.4	68.5	71.5	69.1
Less than 1,500 grams	*	308.6	325.6	337.2	299.0	282.1	255.3	287.6	281.3	287.2	264.4	245.4	296.5	296.0	296.4
1,500-2,499 grams	*	*	*	*	*	*	*	*	*	*	*	*	*	22.0	18.9
2,500 grams or more	3.7	4.0	3.9	3.9	3.5	3.2	3.1	2.6	2.3	1.8	1.7	1.9	1.8	1.8	2.0
Gestational age															
Less than 37 weeks	34.6	49.8	45.6	42.9	40.2	43.1	39.8	41.1	36.0	37.9	34.9	31.9	35.6	35.9	34.5
Less than 32 weeks	*	216.7	204.4	227.9	198.8	205.1	190.0	207.6	184.2	183.7	178.3	178.1	201.6	195.8	183.3
32-36 weeks	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
37 weeks or more	4.0	*	3.6	3.9	3.5	3.1	3.0	2.6	2.5	2.1	2.2	2.4	2.4	2.3	2.4
Age of mother															
Under 20 years	*	*	*	*	*	13.1	12.3	10.4	*	*	*	*	7.2	10.1	8.7
Under 18 years	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18-19 years	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20 years and over	7.1	9.2	8.7	8.8	7.5	6.8	6.3	6.5	6.0	6.4	6.2	6.2	6.4	6.1	6.3
20-24 years	*	*	*	11.0	9.3	8.7	6.7	6.3	5.2	5.4	5.5	5.4	6.2	4.9	5.7
25-29 years	*	*	*	*	*	*	*	*	6.4	6.8	7.3	7.0	6.0	5.2	4.7
30-34 years	*	*	*	*	*	*	*	*	*	*	*	*	*	5.3	6.6
35 years and over	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Age/Education															
<20, less than appropriate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<20, appropriate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20+, <12 years of education	*	*	*	*	*	*	*	6.5	6.3	6.9	6.2	6.5	7.0	6.7	6.4
20+, 12 years of education	*	*	*	10.2	*	*	*	8.1	7.5	8.1	7.4	6.2	6.0	5.5	6.3
20+, 13+ years of education	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.4

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 14. Infant mortality rates by selected characteristics among Hispanics, 3-year moving averages: Indiana, 1990-2006 linked files--Con.

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Educational attainment															
Less than 12 years	*	11.5	11.4	10.6	8.7	8.5	7.7	8.1	6.8	6.6	5.9	6.2	7.1	7.5	6.9
0-8 years	*	*	*	*	*	*	*	*	6.6	8.3	6.8	6.3	6.5	7.9	7.8
9-11 years	*	*	*	*	*	10.1	10.3	9.8	7.1	5.1	5.0	6.1	7.5	7.1	6.1
12 years	*	9.4	*	9.2	8.3	7.6	*	7.3	7.3	7.8	7.2	6.2	6.2	5.8	6.2
More than 12 years	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.5
13-15 years	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16 years and over	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Live-birth order															
First	*	*	*	*	6.3	8.7	8.4	8.1	6.9	7.2	6.4	6.4	6.9	7.4	6.3
Second	*	13.2	13.1	11.6	9.0	*	*	*	*	*	4.6	4.4	4.1	4.0	5.4
Third	*	*	*	*	*	*	*	*	*	*	*	5.8	5.7	5.2	5.2
Fourth+	*	*	*	*	*	*	*	*	*	9.4	8.2	8.5	11.3	12.0	11.3
Marital status															
Married	7.4	8.9	7.5	6.8	5.3	5.8	5.4	5.3	4.7	5.2	5.3	6.0	6.8	7.2	6.9
Unmarried	*	9.6	10.9	12.1	12.1	11.2	10.3	9.7	8.3	7.6	6.9	6.2	6.2	6.1	6.4
Trimester prenatal care began															
First trimester	7.5	9.0	7.0	7.1	7.1	8.2	8.2	7.8	6.2	5.7	5.2	5.2	5.8	6.4	7.0
After first trimester	*	*	*	*	*	*	*	*	5.4	5.5	5.0	4.3	4.4	4.4	4.3
Second trimester	*	*	*	*	*	*	*	*	6.1	6.5	5.6	4.7	4.8	4.9	5.0
Third trimester	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
No care	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Prenatal care index[1]															
Adequate plus	18.5	17.3	*	*	*	*	12.7	11.6	8.9	8.1	7.9	8.1	9.0	10.2	12.0
Adequate	*	*	*	9.0	*	*	*	*	*	*	3.5	3.1	*	3.0	2.6
Intermediate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.2
Inadequate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.8
No care	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Unknown	*	*	*	*	*	*	*	*	*	*	32.1	37.9	43.0	33.9	25.6
Maternal smoking															
Smoking	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Not smoking	6.7	8.1	7.2	7.8	7.3	7.8	6.9	7.0	6.3	6.5	6.1	6.0	6.4	6.6	6.6

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services

Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 15. Infant, neonatal, and postneonatal mortality rates by race and Hispanic origin of mother: Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files

Race and Hispanic origin of mother	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
All races/origins					
Infant	9.0	7.8	7.6	-13.4	-2.5 **
Neonatal	5.7	5.2	5.0	-9.0	-2.5 **
Postneonatal	3.3	2.6	2.6	-21.0	-2.5 **
White					
Infant	7.9	6.9	6.7	-12.8	-3.0 **
Neonatal	4.9	4.6	4.4	-6.4	-5.2 **
Postneonatal	3.0	2.3	2.3	-23.2	1.5 **
Black					
Infant	17.6	15.0	15.2	-14.7	1.2 **
Neonatal	11.7	9.8	10.4	-16.3	6.6 **
Postneonatal	6.0	5.3	4.8	-11.5 **	-8.9 **
White, Non-Hispanic					
Infant	7.9	6.9	6.7	-12.4	-2.4 **
Neonatal	4.9	4.6	4.4	-7.2	-4.4 **
Postneonatal	3.0	2.3	2.4	-21.1	1.6 **
Black, Non-Hispanic					
Infant	17.7	15.0	15.3	-14.8	1.5 **
Neonatal	11.7	9.8	10.5	-16.3	7.1 **
Postneonatal	6.0	5.3	4.8	-11.8 **	-8.9 **
Hispanic					
Infant	8.2	6.8	6.3	-17.4 **	-6.6 **
Neonatal	4.9	5.1	4.4	2.6 **	-13.4 **
Postneonatal	3.3	1.7	1.9	-47.7 **	13.5 **

[1]The total number of infant deaths and live births used in calculating the mortality rates are derived by summation of the respective yearly numbers presented in table A-1 of the Appendix A.

**Not significant at p<0.05.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 16. Infant mortality rates by selected characteristics among all races: Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Total	9.0	7.8	7.6	-13.4	-2.5 **
Sex					
Male	10.2	8.6	8.3	-15.9	-3.3 **
Female	7.8	7.0	6.9	-9.8	-1.4 **
Plurality					
Single births	8.1	7.0	6.6	-13.7	-5.3
Multiple births	44.7	34.6	35.6	-22.6	3.1 **
Birthweight					
Less than 2,500 grams	77.4	62.6	60.6	-19.1	-3.2 **
Less than 1,500 grams	316.1	261.7	260.6	-17.2	-0.4 **
1,500-2,499 grams	24.8	18.8	17.5	-24.3	-7.0 **
2,500 grams or more	3.7	2.8	2.6	-23.9	-9.2
Gestational age					
Less than 37 weeks	50.8	42.7	38.1	-15.9	-10.8
Less than 32 weeks	217.2	197.0	193.3	-9.3	-1.9 **
32-36 weeks	15.0	11.1	9.3	-25.9	-16.6
37 weeks or more	4.0	3.2	2.9	-21.2	-8.4
Age of mother					
Under 20 years	12.8	11.0	10.7	-13.6	-3.2 **
Under 18 years	14.8	12.8	12.1	-13.0 **	-6.0 **
18-19 years	11.7	10.1	10.1	-13.6	-0.1 **
20 years and over	8.4	7.3	7.2	-12.8	-1.0 **
20-24 years	9.7	8.3	8.6	-14.6	3.4 **
25-29 years	7.5	6.6	6.5	-12.5	-0.7 **
30-34 years	7.2	6.7	6.1	-7.8 **	-8.3 **
35 years and over	9.3	7.8	7.6	-16.2	-2.4 **
Age/Education					
<20, less than appropriate	13.9	9.6	12.1	-30.8	25.5
<20, appropriate	11.7	11.3	9.7	-3.4 **	-13.4
20+, <12 years of education	12.1	11.0	9.6	-8.9 **	-12.9
20+, 12 years of education	8.7	7.7	8.4	-11.6	9.5
20+, 13+ years of education	6.5	5.5	5.5	-15.8	-0.4 **

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 16. Infant mortality rates by selected characteristics among all races: Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Educational attainment					
Less than 12 years	12.6	11.3	10.5	-10.6	-6.8 **
0-8 years	14.4	9.0	8.7	-37.6	-3.3 **
9-11 years	12.3	11.8	11.1	-3.5 **	-6.2 **
12 years	8.9	7.9	8.3	-11.0	4.8 **
More than 12 years	6.6	5.5	5.5	-15.5	-1.4 **
13-15 years	7.0	6.3	6.5	-11.0	3.3 **
16 years and over	6.0	4.8	4.5	-20.1	-5.3 **
Live-birth order					
First	8.2	7.9	7.6	-3.1 **	-4.0 **
Second	8.8	6.9	6.9	-20.9	-0.2 **
Third	9.5	8.1	7.1	-15.0	-12.3
Fourth+	11.7	9.2	10.0	-21.5	8.5 **
Marital status					
Married	7.2	6.1	6.1	-14.8	-0.9 **
Unmarried	13.3	11.1	10.0	-16.9	-9.8
Trimester prenatal care began					
First trimester	8.0	7.0	6.8	-12.1	-3.5 **
After first trimester	9.4	7.8	7.4	-17.2	-4.6 **
Second trimester	9.6	7.5	7.6	-21.4	1.2 **
Third trimester	8.1	8.9	6.3	10.1 **	-29.8
No care	43.1	43.1	40.7	-0.1 **	-5.5 **
Prenatal care index1					
Adequate plus	14.2	10.7	10.2	-24.7	-4.0 **
Adequate	4.8	3.9	3.7	-19.2	-6.5 **
Intermediate	5.9	4.4	4.7	-26.0	7.9 **
Inadequate	9.5	7.8	6.9	-17.8	-11.9 **
No care	43.1	43.1	40.7	-0.1 **	-5.5 **
Unknown	33.6	33.9	42.9	0.8 **	26.7
Maternal smoking					
Smoking	11.8	10.8	10.7	-8.6	-1.3 **
Not smoking	7.9	6.9	6.9	-12.0	-0.5 **

[1]The total number of infant deaths and live births used in calculating the mortality rates are derived by summation of the respective yearly numbers presented in table A-2 of the Appendix A.

**Not significant at p<0.05.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 17. Infant mortality rates by selected characteristics among whites: Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Total	7.9	6.9	6.7	-12.8	-3.0 **
Sex					
Male	9.0	7.7	7.3	-14.4	-4.3 **
Female	6.8	6.1	6.0	-10.3	-1.1 **
Plurality					
Single births	7.1	6.2	5.8	-13.6	-5.1 **
Multiple births	39.9	31.8	31.2	-20.4	-1.8 **
Birthweight					
Less than 2,500 grams	73.3	59.7	55.8	-18.5	-6.6 **
Less than 1,500 grams	307.2	254.0	249.9	-17.3	-1.6 **
1,500-2,499 grams	25.4	19.5	16.9	-23.2	-13.0 **
2,500 grams or more	3.5	2.6	2.5	-25.8	-4.2 **
Gestational age					
Less than 37 weeks	46.7	39.5	33.7	-15.3	-14.8
Less than 32 weeks	213.2	192.7	180.0	-9.6	-6.6 **
32-36 weeks	14.7	11.0	9.0	-25.5	-18.3
37 weeks or more	3.8	2.9	2.8	-23.3	-4.9 **
Age of mother					
Under 20 years	11.2	9.9	10.0	-11.5 **	0.7 **
Under 18 years	12.7	11.8	11.3	-7.2 **	-4.6 **
18-19 years	10.5	9.0	9.5	-13.9 **	5.1 **
20 years and over	7.4	6.5	6.3	-12.9	-2.3 **
20-24 years	8.6	7.3	7.4	-14.9	2.1 **
25-29 years	6.8	5.9	5.6	-13.0	-5.8 **
30-34 years	6.4	6.1	5.6	-5.0 **	-7.8 **
35 years and over	8.4	6.7	6.9	-20.2	2.9 **
Age/Education					
<20, less than appropriate	13.3	8.1	11.9	-39.2	47.7
<20, appropriate	10.0	10.6	8.8	6.2 **	-16.9
20+, <12 years of education	11.1	10.2	8.6	-8.0 **	-15.9
20+, 12 years of education	7.8	6.8	7.5	-13.2	11.4
20+, 13+ years of education	5.8	4.9	4.7	-15.0	-5.4 **

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 17. Infant mortality rates by selected characteristics among whites: Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files--Con.

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Educational attainment					
Less than 12 years	11.6	10.3	9.5	-10.9	-7.8 **
0-8 years	13.4	8.3	8.6	-38.4	4.1 **
9-11 years	11.2	10.9	9.9	-2.5 **	-9.4 **
12 years	7.9	7.0	7.5	-11.3	6.7 **
More than 12 years	5.8	5.0	4.7	-14.3	-6.5 **
13-15 years	6.1	5.4	5.2	-11.2 **	-3.9 **
16 years and over	5.5	4.6	4.2	-17.1	-8.3 **
Live-birth order					
First	7.2	7.1	6.7	-1.2 **	-5.3 **
Second	7.8	6.2	6.2	-19.6	-0.2 **
Third	8.7	7.0	6.0	-19.4	-13.5
Fourth+	10.0	7.8	8.7	-21.3	10.6 **
Marital status					
Married	6.9	5.8	5.9	-15.0	0.5 **
Unmarried	11.3	9.6	8.3	-15.4	-13.4
Trimester prenatal care began					
First trimester	7.2	6.3	6.0	-12.4	-5.7 **
After first trimester	8.5	7.0	6.8	-17.1	-3.5 **
Second trimester	8.6	6.9	7.0	-20.4	1.8 **
Third trimester	7.7	8.0	5.8	3.0 **	-26.7 **
No care	33.1	35.4	32.6	6.8 **	-7.9 **
Prenatal care index1					
Adequate plus	13.1	9.8	9.2	-25.3	-6.4 **
Adequate	4.5	3.5	3.3	-21.2	-6.4 **
Intermediate	5.2	4.1	4.2	-19.9	1.2 **
Inadequate	8.6	7.1	6.3	-18.1	-10.8 **
No care	33.1	35.4	32.6	6.8 **	-7.9 **
Unknown	30.5	31.3	40.0	2.5 **	27.9
Maternal smoking					
Smoking	10.8	10.1	9.8	-6.5 **	-3.5 **
Not smoking	6.8	5.9	6.0	-12.6	0.2 **

[1]The total number of infant deaths and live births used in calculating the mortality rates are derived by summation of the respective yearly numbers presented in table A-3 of the Appendix A.

**Not significant at p<0.05.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 18. Infant mortality rates by selected characteristics among blacks: Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Total	17.6	15.0	15.2	-14.7	1.2 **
Sex					
Male	19.8	16.3	16.0	-17.8	-1.8 **
Female	15.3	13.7	14.4	-10.3 **	4.7 **
Plurality					
Single births	15.9	13.7	13.2	-13.7	-3.8 **
Multiple births	80.2	55.0	66.8	-31.4 **	21.5 **
Birthweight					
Less than 2,500 grams	93.6	75.2	83.1	-19.7	10.5 **
Less than 1,500 grams	341.1	287.2	297.6	-15.8	3.6 **
1,500-2,499 grams	23.0	15.6	20.5	-32.2 **	31.5 **
2,500 grams or more	5.8	5.0	3.8	-13.4 **	-24.5
Gestational age					
Less than 37 weeks	67.9	57.2	61.9	-15.8	8.3 **
Less than 32 weeks	227.8	208.8	238.2	-8.3 **	14.1 **
32-36 weeks	16.6	11.4	11.8	-31.6 **	4.2 **
37 weeks or more	6.0	5.5	4.3	-9.4 **	-21.5
Age of mother					
Under 20 years	18.5	15.6	13.8	-16.1 **	-11.0 **
Under 18 years	20.3	16.7	14.9	-17.4 **	-11.2 **
18-19 years	17.1	14.7	13.3	-13.9 **	-10.0 **
20 years and over	17.2	14.9	15.5	-13.7	4.6 **
20-24 years	17.7	14.6	15.7	-17.6	7.9 **
25-29 years	15.5	13.4	16.0	-13.6 **	19.6 **
30-34 years	18.2	15.6	13.9	-14.7 **	-10.9 **
35 years and over	19.0	20.1	16.4	6.1 **	-18.7 **
Age/Education					
<20, less than appropriate	17.3	18.7	12.9	8.0 **	-31.0 **
<20, appropriate	17.1	13.4	13.5	-21.7	0.6 **
20+, <12 years of education	19.3	17.1	17.6	-11.3 **	3.0 **
20+, 12 years of education	16.4	14.7	14.8	-10.8 **	1.1 **
20+, 13+ years of education	15.5	12.6	14.9	-18.2 **	18.0 **

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 18. Infant mortality rates by selected characteristics among blacks: Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files--Con.

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Educational attainment					
Less than 12 years	17.8	16.6	16.8	-6.9 **	1.1 **
0-8 years	25.4	*	*	---	---
9-11 years	17.2	16.3	17.1	-5.3 **	5.2 **
12 years	16.6	14.1	13.9	-14.9 **	-2.0 **
More than 12 years	15.7	12.7	14.9	-19.2	17.2 **
13-15 years	15.2	13.6	16.4	-10.7 **	20.3 **
16 years and over	17.4	10.1	11.2	-42.1 **	11.1 **
Live-birth order					
First	17.0	14.9	15.3	-12.6 **	2.8 **
Second	17.7	13.5	14.1	-23.7	4.4 **
Third	15.7	16.3	15.3	3.8 **	-6.3 **
Fourth+	19.5	16.0	16.7	-18.1 **	4.9 **
Marital status					
Married	15.3	13.0	13.3	-15.1 **	2.2 **
Unmarried	18.3	15.7	15.8	-14.5	0.8 **
Trimester prenatal care began					
First trimester	15.9	13.7	14.8	-13.5	7.7 **
After first trimester	13.2	11.3	10.5	-14.4 **	-7.4 **
Second trimester	14.1	11.0	10.8	-21.9	-1.5 **
Third trimester	8.9	12.8	8.8	43.9 **	-31.8 **
No care	61.9	60.3	58.4	-2.6 **	-3.3 **
Prenatal care index1					
Adequate plus	23.3	18.2	19.7	-21.9	8.2 **
Adequate	9.7	8.1	7.8	-15.7 **	-3.8 **
Intermediate	11.1	6.6	9.0	-40.0 **	36.1 **
Inadequate	12.7	11.1	9.9	-12.3 **	-11.5 **
No care	61.9	60.3	58.4	-2.6 **	-3.3 **
Unknown	41.6	42.4	58.1	1.9 **	37.0
Maternal smoking					
Smoking	21.9	18.9	20.0	-14.0 **	6.0 **
Not smoking	15.9	14.2	14.3	-11.0 **	1.1 **

[1]The total number of infant deaths and live births used in calculating the mortality rates are derived by summation of the respective yearly numbers presented in table A-4 of the Appendix A.

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

**Not significant at p<0.05.

---Not applicable.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 19. Infant mortality rates by selected characteristics among non-Hispanic whites: Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Total	7.9	6.9	6.7	-12.4	-2.4 **
Sex					
Male	8.9	7.7	7.3	-13.5	-5.3 **
Female	6.8	6.1	6.2	-10.7	1.7 **
Plurality					
Single births	7.1	6.2	5.9	-13.0	-4.7 **
Multiple births	39.6	31.0	30.4	-21.8	-1.9 **
Birthweight					
Less than 2,500 grams	73.1	59.3	55.0	-18.8	-7.3 **
Less than 1,500 grams	307.6	250.9	246.3	-18.4	-1.8 **
1,500-2,499 grams	25.4	20.1	16.9	-20.6	-16.3
2,500 grams or more	3.5	2.6	2.5	-24.9	-2.4 **
Gestational age					
Less than 37 weeks	46.8	39.4	33.8	-15.9	-14.2
Less than 32 weeks	214.1	191.3	179.1	-10.7	-6.4 **
32-36 weeks	14.7	11.3	9.3	-22.9	-18.3
37 weeks or more	3.8	2.9	2.8	-22.0	-4.6 **
Age of mother					
Under 20 years	11.3	9.9	10.3	-12.3	4.1 **
Under 18 years	12.8	11.5	11.6	-9.9 **	0.9 **
18-19 years	10.5	9.1	9.8	-13.4 **	7.2 **
20 years and over	7.4	6.5	6.3	-12.2	-2.1 **
20-24 years	8.6	7.4	7.7	-13.8	4.0 **
25-29 years	6.8	5.9	5.6	-12.4	-5.6 **
30-34 years	6.4	6.1	5.6	-4.6 **	-7.7 **
35 years and over	8.1	6.6	6.5	-19.3	-1.2 **
Age/Education					
<20, less than appropriate	13.4	8.4	13.2	-37.4	57.5
<20, appropriate	10.0	10.3	8.8	3.5 **	-15.2 **
20+, <12 years of education	11.1	11.0	9.5	-0.8 **	-13.1 **
20+, 12 years of education	7.8	6.8	7.7	-12.6	13.4
20+, 13+ years of education	5.8	4.9	4.6	-15.1	-5.4 **

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 19. Infant mortality rates by selected characteristics among non-Hispanic whites: Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files--Con.

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Educational attainment					
Less than 12 years	11.6	10.8	10.5	-6.8 **	-2.7 **
0-8 years	13.1	9.1	10.1	-30.5	11.0 **
9-11 years	11.3	11.2	10.7	-0.8 **	-5.1 **
12 years	7.9	7.0	7.6	-10.9	8.6 **
More than 12 years	5.8	4.9	4.6	-14.6	-6.3 **
13-15 years	6.1	5.4	5.1	-11.9 **	-4.0 **
16 years and over	5.5	4.5	4.2	-17.1	-7.7 **
Live-birth order					
First	7.2	7.1	6.8	-1.8 **	-4.2 **
Second	7.7	6.3	6.4	-18.2	1.3 **
Third	8.7	7.1	6.1	-19.0	-13.4
Fourth+	9.8	7.8	8.4	-21.0	8.3 **
Marital status					
Married	6.8	5.8	5.8	-14.5	-0.6 **
Unmarried	11.3	9.6	8.7	-15.0	-10.0
Trimester prenatal care began					
First trimester	7.2	6.3	6.0	-12.5	-5.7 **
After first trimester	8.5	7.3	7.4	-13.9	0.7 **
Second trimester	8.6	7.1	7.5	-17.7	5.5 **
Third trimester	8.0	8.8	6.9	9.9 **	-21.0 **
No care	32.2	35.5	35.3	10.4 **	-0.6 **
Prenatal care index[1]					
Adequate plus	13.1	9.8	9.1	-24.9	-7.6 **
Adequate	4.4	3.5	3.4	-20.3	-4.5 **
Intermediate	5.2	4.1	4.2	-21.0	2.9 **
Inadequate	8.9	7.4	7.0	-16.7	-6.0 **
No care	32.2	35.5	35.3	10.4 **	-0.6 **
Uknown	30.9	32.0	41.6	3.8 **	29.9
Maternal smoking					
Smoking	10.7	10.2	9.8	-5.2 **	-3.2 **
Not smoking	6.8	5.9	5.5	-13.3	-5.7 **

[1]The total number of infant deaths and live births used in calculating the mortality rates are derived by summation of the respective yearly numbers presented in table A-5 of the Appendix A.

**Not significant at p<0.05.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 20. Infant mortality rates by selected characteristics among non-Hispanic blacks: Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Total	17.7	15.0	15.3	-14.8	1.5 **
Sex					
Male	19.8	16.3	16.0	-18.0	-1.4 **
Female	15.3	13.8	14.4	-10.3 **	5.0 **
Plurality					
Single births	15.9	13.7	13.2	-13.8	-3.5 **
Multiple births	80.4	55.1	67.0	-31.4 **	21.7 **
Birthweight					
Less than 2,500 grams	93.9	75.4	83.2	-19.7	10.4 **
Less than 1,500 grams	341.1	288.1	298.2	-15.5	3.5 **
1,500-2,499 grams	23.1	15.5	20.4	-33.2 **	31.9 **
2,500 grams or more	5.8	5.0	3.8	-13.7 **	-24.0
Gestational age					
Less than 37 weeks	68.0	57.3	62.2	-15.8	8.6 **
Less than 32 weeks	228.1	209.3	238.9	-8.2 **	14.1 **
32-36 weeks	16.7	11.4	11.9	-31.6 **	4.3 **
37 weeks or more	6.0	5.4	4.3	-9.8 **	-21.2
Age of mother					
Under 20 years	18.6	15.6	13.9	-16.2 **	-10.9 **
Under 18 years	20.4	16.8	14.9	-17.5 **	-11.2 **
18-19 years	17.2	14.8	13.3	-13.9 **	-9.8 **
20 years and over	17.2	14.9	15.6	-13.8	5.0 **
20-24 years	17.6	14.6	15.8	-17.3	8.1 **
25-29 years	15.5	13.3	16.1	-14.1 **	20.7 **
30-34 years	18.3	15.7	13.9	-14.4 **	-11.1 **
35 years and over	19.1	19.9	16.5	4.4 **	-17.4 **
Age/Education					
<20, less than appropriate	17.5	18.8	13.0	7.6 **	-30.8 **
<20, appropriate	17.2	13.5	13.6	-21.6	0.7 **
20+, <12 years of education	19.4	17.0	17.6	-12.2 **	3.3 **
20+, 12 years of education	16.5	14.7	14.9	-10.7 **	1.3 **
20+, 13+ years of education	15.5	12.6	15.0	-18.9 **	19.2 **

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 20. Infant mortality rates by selected characteristics among non-Hispanic blacks: Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files--Con.

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Educational attainment					
Less than 12 years	17.9	16.6	16.8	-7.4 **	1.3 **
0-8 years	25.6	*	*	---	---
9-11 years	17.3	16.3	17.2	-5.8 **	5.9 **
12 years	16.7	14.2	13.9	-14.8 **	-1.8 **
More than 12 years	15.7	12.6	14.9	-19.9	18.4 **
13-15 years	15.3	13.5	16.4	-11.7 **	22.1 **
16 years and over	17.5	10.2	11.3	-41.9 **	10.7 **
Live-birth order					
First	17.1	14.9	15.3	-12.8 **	2.8 **
Second	17.7	13.5	14.2	-23.7	5.1 **
Third	15.8	16.3	15.4	3.3 **	-5.6 **
Fourth+	19.6	16.0	16.8	-18.2 **	4.9 **
Marital status					
Married	15.4	13.0	13.3	-15.5 **	2.3 **
Unmarried	18.3	15.7	15.9	-14.6	1.2 **
Trimester prenatal care began					
First trimester	15.9	13.7	14.9	-13.6	8.1 **
After first trimester	13.3	11.3	10.5	-14.9 **	-6.8 **
Second trimester	14.2	11.0	10.9	-22.5	-0.7 **
Third trimester	9.0	12.9	8.8	43.9 **	-31.8 **
No care	62.0	60.4	58.6	-2.5 **	-3.0 **
Prenatal care index1					
Adequate plus	23.4	18.2	19.8	-22.2	8.8 **
Adequate	9.7	8.2	7.8	-15.5 **	-4.7 **
Intermediate	11.1	6.7	9.1	-40.0 **	36.5 **
Inadequate	12.8	11.1	9.9	-13.1 **	-10.7 **
No care	62.0	60.4	58.6	-2.5 **	-3.0 **
Unknown	41.4	42.5	58.5	2.4 **	37.9
Maternal smoking					
Smoking	22.0	18.7	20.1	-15.3 **	7.9 **
Not smoking	15.9	14.2	14.4	-10.9 **	1.2 **

[1]The total number of infant deaths and live births used in calculating the mortality rates are derived by summation of the respective yearly numbers presented in table A-6 of the Appendix A.

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

**Not significant at p<0.05.

---Not applicable.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 21. Infant mortality rates by selected characteristics among Hispanics: Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Total	8.2	6.8	6.3	-17.4 **	-6.6 **
Sex					
Male	10.1	7.4	7.9	-26.2 **	5.6 **
Female	6.2	6.1	4.7	-1.4 **	-22.1 **
Plurality					
Single births	7.4	6.1	5.5	-17.7 **	-8.5 **
Multiple births	*	*	42.8	---	---
Birthweight					
Less than 2,500 grams	76.6	64.5	64.3	-15.7 **	-0.3 **
Less than 1,500 grams	306.5	282.4	279.5	-7.9 **	-1.0 **
1,500-2,499 grams	*	*	17.7	---	---
2,500 grams or more	3.6	2.4	1.9	-33.8 **	-19.8 **
Gestational age					
Less than 37 weeks	41.2	39.8	33.2	-3.3 **	-16.8 **
Less than 32 weeks	191.0	192.9	184.0	1.0 **	-4.6 **
32-36 weeks	*	*	6.3	---	---
37 weeks or more	3.7	2.4	2.4	-34.2 **	-2.4 **
Age of mother					
Under 20 years	*	9.8	7.8	---	-20.9 **
Under 18 years	*	*	*	---	---
18-19 years	*	*	6.9	---	---
20 years and over	8.0	6.1	6.1	-23.7 **	-0.4 **
20-24 years	7.4	6.0	5.6	-18.5 **	-6.1 **
25-29 years	8.7	5.6	5.4	-35.8 **	-3.3 **
30-34 years	*	*	5.5	---	---
35 years and over	*	*	8.3	---	---
Age/Education					
<20, less than appropriate	*	*	*	---	---
<20, appropriate	*	13.2	8.5	---	-35.7 **
20+, <12 years of education	10.7	6.2	6.3	-42.5 **	2.0 **
20+, 12 years of education	7.9	6.7	6.0	-15.7 **	-10.6 **
20+, 13+ years of education	*	*	5.1	---	---

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 21. Infant mortality rates by selected characteristics among Hispanics: Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files--Con.

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Educational attainment					
Less than 12 years	10.5	7.3	6.6	-30.5 **	-9.1 **
0-8 years	15.9	6.1	6.8	-61.4	10.5 **
9-11 years	*	8.2	6.5	---	-21.0 **
12 years	7.9	6.9	6.0	-13.4 **	-12.1 **
More than 12 years	*	4.9	5.1	---	4.5 **
13-15 years	*	*	5.7	---	---
16 years and over	*	*	*	---	---
Live-birth order					
First	6.0	8.0	6.3	33.2 **	-21.6 **
Second	11.0	4.5	5.0	-58.9	10.0 **
Third	*	5.7	5.3	---	-6.7 **
Fourth+	*	8.7	10.2	---	17.1 **
Marital status					
Married	7.4	5.1	6.6	-31.3 **	28.8 **
Unmarried	9.5	8.9	6.1	-6.2 **	-31.5 **
Trimester prenatal care began					
First trimester	7.3	7.0	6.2	-4.7 **	-10.3 **
After first trimester	7.6	4.4	4.3	-41.9 **	-2.5 **
Second trimester	8.5	4.8	4.8	-43.1 **	-0.1 **
Third trimester	*	*	*	---	---
No care	*	*	*	---	---
Prenatal care index1					
Adequate plus	14.2	10.2	10.5	-28.4 **	3.1 **
Adequate	6.5	3.9	2.7	-40.5 **	-29.2 **
Intermediate	*	*	4.0	---	---
Inadequate	*	4.7	3.7	---	-22.2 **
No care	*	*	*	---	---
Unknown	*	19.3	32.1	---	66.4 **
Maternal smoking					
Smoking	17.3	*	*	---	---
Not smoking	6.9	6.7	6.3	-3.7 **	-6.0 **

[1]The total number of infant deaths and live births used in calculating the mortality rates are derived by summation of the respective yearly numbers presented in table A-7 of the Appendix A.

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

**Not significant at p<0.05.

---Not applicable.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 22. Infant, neonatal, and postneonatal mortality rates by race and Hispanic origin of mother, 3-year moving averages: Marion County, Indiana, 1990-2006 linked files

Race and Hispanic origin of mother	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in the specified group														
All races/origins															
Infant	11.6	11.0	10.9	9.9	9.7	9.6	9.2	9.1	9.0	8.9	8.5	8.3	9.1	9.3	9.5
Neonatal	7.7	7.1	7.0	6.2	6.4	6.6	6.4	6.4	6.3	5.9	5.7	5.5	6.2	6.6	6.9
Postneonatal	3.9	3.9	3.9	3.7	3.3	3.0	2.7	2.8	2.8	3.0	2.8	2.9	2.8	2.7	2.7
White															
Infant	8.8	8.5	8.4	7.8	7.4	7.8	7.2	7.0	6.8	6.9	6.6	6.6	6.8	7.5	7.5
Neonatal	5.5	5.4	5.5	5.0	4.8	5.3	5.1	4.7	4.4	4.4	4.4	4.3	4.6	5.2	5.3
Postneonatal	3.3	3.1	2.9	2.8	2.5	2.4	2.1	2.3	2.4	2.5	2.2	2.3	2.3	2.3	2.1
White, Non-Hispanic															
Infant	8.9	8.5	8.4	7.8	7.4	7.8	7.3	7.0	6.7	7.0	7.1	7.3	7.5	7.7	7.6
Neonatal	5.6	5.4	5.5	5.0	4.8	5.3	5.1	4.6	4.3	4.4	4.7	4.8	5.0	5.3	5.4
Postneonatal	3.3	3.0	2.9	2.8	2.6	2.5	2.1	2.3	2.5	2.7	2.4	2.5	2.5	2.4	2.2
Black															
Infant	19.3	18.0	17.6	15.3	16.1	14.8	14.4	14.6	14.9	14.1	13.4	13.2	15.3	14.3	15.0
Neonatal	13.8	12.0	11.2	9.5	10.4	9.9	10.1	10.7	11.3	9.8	9.1	8.7	10.7	10.2	10.8
Postneonatal	5.5	6.0	6.5	5.9	5.6	4.9	4.3	3.9	3.6	4.3	4.3	4.5	4.5	4.1	4.2
Black, Non-Hispanic															
Infant	19.2	18.1	17.7	15.2	15.8	14.5	14.2	14.5	14.8	14.1	13.5	13.2	15.3	14.3	15.1
Neonatal	13.7	12.1	11.2	9.3	10.3	9.7	10.0	10.6	11.2	9.9	9.1	8.7	10.8	10.2	10.8
Postneonatal	5.5	6.0	6.5	5.9	5.6	4.8	4.2	3.9	3.6	4.3	4.3	4.5	4.6	4.1	4.3
Hispanic															
Infant	*	*	*	*	*	*	*	*	*	*	*	*	*	6.7	6.8
Neonatal	*	*	*	*	*	*	*	*	*	*	*	*	*	4.9	4.9
Postneonatal	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 23. Infant mortality rates by selected characteristics among all races, 3-year moving averages: Marion County, Indiana, 1990-2006 linked files

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Total	11.6	11.0	10.9	9.9	9.7	9.6	9.2	9.1	9.0	8.9	8.5	8.3	9.1	9.3	9.5
Sex															
Male	13.2	12.6	12.2	10.7	10.9	10.7	10.9	10.9	10.6	10.2	9.1	9.0	9.7	9.9	9.9
Female	9.7	9.3	9.4	9.0	8.5	8.5	7.4	7.3	7.4	7.6	7.8	7.6	8.4	8.6	9.2
Plurality															
Single births	10.5	9.9	9.6	8.9	8.7	8.7	8.3	8.3	8.2	7.9	7.4	7.2	7.8	7.9	8.5
Multiple births	54.7	55.0	53.2	43.9	41.2	39.6	36.6	33.4	36.3	41.4	39.2	42.0	43.6	48.8	39.8
Birth weight (grams)															
<2,500	88.8	82.6	77.1	70.6	69.0	66.7	63.5	62.9	65.5	65.3	63.5	62.3	66.4	68.9	70.0
<1,500	382.4	365.2	317.9	281.1	283.1	304.8	292.6	275.7	260.5	254.0	268.7	276.0	285.1	275.9	284.1
1,500-2,499	24.3	21.1	22.1	23.9	21.1	16.2	15.1	15.3	19.8	18.5	16.5	14.8	18.1	20.4	19.5
>=2,500	4.2	4.1	4.2	3.6	3.5	3.3	3.0	2.9	2.8	2.9	2.6	2.7	2.8	2.8	2.7
Gestational age (weeks)															
<37	61.1	57.2	53.5	48.9	52.3	53.0	49.5	46.5	44.9	43.9	42.8	41.1	44.0	43.8	45.8
<32	251.2	238.7	224.2	209.2	217.9	223.7	216.5	205.8	201.2	200.6	213.9	210.0	217.1	211.4	221.5
32-36	15.7	14.4	13.7	12.5	13.8	13.0	12.4	11.3	12.2	10.4	9.1	7.4	9.3	9.6	9.8
>=37	4.5	4.3	4.7	4.3	3.7	3.4	3.0	3.2	3.2	3.3	2.9	2.9	3.2	3.3	3.1
Age of mother (years)															
<20	18.0	16.3	14.9	13.7	15.2	14.4	12.7	10.7	10.8	11.4	11.1	11.7	14.4	14.8	14.2
<18	17.0	18.9	17.3	17.5	18.0	16.0	14.9	11.9	13.0	13.1	14.2	14.8	18.9	16.6	15.5
18-19	18.7	14.6	13.3	11.1	13.2	13.2	11.3	10.1	9.6	10.4	9.5	10.1	12.2	13.9	13.6
>=20	10.2	9.9	10.0	9.1	8.7	8.8	8.5	8.9	8.7	8.5	8.0	7.8	8.3	8.5	8.9
20-24	12.0	12.0	12.6	11.8	11.3	10.0	10.0	11.3	10.7	9.9	8.3	8.6	9.3	9.0	9.9
25-29	8.4	8.8	8.8	8.0	7.6	8.3	8.0	7.9	8.5	8.4	8.5	7.0	8.0	8.2	9.1
30-34	9.9	8.3	7.5	6.9	7.1	8.3	8.2	7.6	7.0	7.1	6.7	7.3	7.0	7.5	6.7
>=35	11.0	10.9	10.7	9.5	7.7	7.8	6.7	7.2	7.4	7.7	8.7	8.6	8.3	9.9	9.4
Age / Education (years)															
<20 / <appropriate	22.5	19.0	14.9	13.2	13.4	14.4	*	*	*	*	11.0	15.8	20.0	20.3	17.4
<20 / appropriate	13.5	13.0	13.3	12.6	13.9	12.6	12.1	10.8	12.1	12.3	11.2	9.6	11.1	11.1	11.7
>=20 / <12	17.0	15.7	17.8	13.4	13.6	12.7	13.5	13.9	11.9	10.0	8.7	8.9	10.1	9.5	9.6
>=20 / 12	10.3	10.1	10.2	8.6	8.3	7.9	8.5	9.4	10.0	9.5	8.5	9.0	9.4	9.9	9.9
>=20 / >12	6.6	6.9	6.9	7.3	6.6	6.6	5.7	5.6	6.0	6.5	6.9	6.2	6.4	6.8	7.6

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 23. Infant mortality rates by selected characteristics among all races, 3-year moving averages: Marion County, Indiana, 1990-2006 linked files--Con.

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Education (years)															
<12	17.3	15.9	16.2	13.8	14.2	13.8	12.8	12.2	11.0	10.4	10.1	10.9	12.6	12.0	11.7
0-8	19.0	*	*	*	*	*	*	*	*	*	*	*	*	8.5	9.3
9-11	17.1	15.8	16.0	13.6	14.4	14.0	13.0	12.7	11.7	11.1	11.0	12.3	14.4	13.1	12.5
=12	10.7	10.3	10.5	8.7	8.7	8.1	8.8	9.3	10.2	9.7	8.6	8.5	9.0	9.6	9.5
>12	6.6	6.9	6.9	7.3	6.7	6.6	5.7	5.7	6.1	6.6	6.8	6.2	6.4	6.8	7.6
13-15	7.8	8.8	8.2	8.5	8.2	8.4	7.4	7.3	6.6	8.0	8.0	8.6	8.7	8.9	10.3
>=16	5.5	5.1	5.7	6.3	5.4	5.2	4.4	4.4	5.6	5.4	5.9	4.2	4.6	5.1	5.5
Live-birth order															
First	9.6	8.4	8.4	7.7	8.5	9.1	8.6	9.1	8.8	8.9	8.5	8.6	9.0	9.3	9.7
Second	11.6	11.5	9.8	9.8	9.1	8.8	8.2	6.6	7.1	6.9	7.0	6.2	8.0	8.3	9.1
Third	12.3	12.6	13.3	10.9	10.9	10.4	9.9	10.0	10.0	10.0	9.0	9.1	9.1	9.2	8.4
Fourth+	16.9	15.8	18.6	16.1	13.9	12.5	12.3	13.9	12.5	11.8	10.8	11.7	12.1	11.8	11.4
Marital status															
Married	8.6	7.7	7.3	6.6	6.8	7.4	7.2	6.8	6.8	6.6	6.2	5.8	6.4	7.0	7.3
Unmarried	16.3	16.1	16.2	14.8	14.0	12.8	11.9	12.2	11.7	11.6	10.9	11.0	11.8	11.4	11.5
Trimester prenatal care began															
First trimester	9.2	8.8	8.7	7.9	7.7	8.0	7.5	7.9	8.1	8.5	7.7	7.4	7.7	8.5	9.1
After first trimester	10.7	10.8	12.4	11.9	11.0	9.8	9.0	8.2	7.0	5.9	6.7	7.3	8.1	7.4	6.9
Second trimester	10.9	11.6	13.1	12.8	10.7	9.2	7.8	7.6	6.9	6.0	6.7	7.3	8.3	8.0	7.5
Third trimester	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
No care	56.1	55.9	65.1	52.1	61.3	49.1	56.9	52.4	57.6	49.3	43.0	43.0	62.0	58.6	48.9
Prenatal care index[1]															
Adequate plus	19.1	20.2	19.8	18.4	14.3	12.1	9.7	10.4	11.0	11.2	10.5	9.9	10.7	12.0	13.2
Adequate	5.4	5.0	4.6	4.1	4.1	4.3	4.0	3.6	3.8	4.1	4.1	4.1	4.6	5.1	5.8
Intermediate	5.1	5.5	6.5	7.2	6.4	6.0	5.5	5.3	4.2	4.8	4.9	5.1	4.6	5.1	4.6
Inadequate	11.7	10.2	11.1	9.9	10.5	9.6	8.6	7.5	7.1	6.3	6.7	7.5	7.7	6.9	5.9
No care	56.1	55.9	65.1	52.1	61.3	49.1	56.9	52.4	57.6	49.3	43.0	43.0	62.0	58.6	48.9
Unknown	34.3	35.5	33.8	28.3	27.7	30.0	33.0	39.5	42.0	43.4	48.2	56.2	71.0	67.2	76.0
Maternal smoking															
Smoking	16.9	15.7	15.7	13.5	12.5	11.6	12.0	12.0	11.7	11.3	12.8	14.1	15.7	13.9	12.8
Not smoking	9.2	8.9	8.8	8.3	8.7	9.1	8.5	8.4	8.3	8.2	7.3	7.0	7.7	8.3	8.9

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 24. Infant mortality rates by selected characteristics among whites, 3-year moving averages: Marion County, Indiana, 1990-2006 linked files

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Total	8.8	8.5	8.4	7.8	7.4	7.8	7.2	7.0	6.8	6.9	6.6	6.6	6.8	7.5	7.5
Sex															
Male	10.6	10.0	9.2	8.4	8.2	8.9	8.9	8.7	8.4	8.4	7.2	7.3	7.4	8.3	7.9
Female	6.7	6.8	7.3	7.2	6.4	6.5	5.4	5.2	5.1	5.4	5.9	5.8	6.2	6.7	7.0
Plurality															
Single births	7.9	7.4	7.4	7.0	6.6	6.9	6.5	6.5	6.0	5.9	5.6	5.5	5.7	6.0	4.1
Multiple births	46.9	49.3	45.8	38.8	36.0	37.4	29.9	23.9	30.2	39.1	37.2	37.5	37.9	49.9	34.7
Birth weight (grams)															
<2,500	75.2	71.0	70.6	65.3	61.0	59.0	55.0	52.8	55.1	56.3	55.6	54.8	55.2	60.2	58.1
<1,500	342.9	326.6	308.1	263.0	261.1	282.5	272.7	243.5	229.6	228.9	258.0	264.4	260.9	267.3	268.7
1,500-2,499	29.0	23.2	21.7	22.9	21.4	18.1	16.2	15.4	19.1	19.6	16.3	15.2	16.4	18.5	16.6
>=2,500	3.8	3.6	3.5	3.2	2.9	3.1	2.8	2.7	2.6	2.6	2.5	2.5	2.6	2.8	2.8
Gestational age (weeks)															
<37	51.0	48.6	44.3	40.5	41.3	46.1	40.5	36.7	36.0	38.0	36.6	33.8	33.0	35.6	35.1
<32	233.0	224.7	250.0	227.0	225.7	212.5	201.2	183.6	173.7	188.5	203.6	192.5	180.5	189.9	194.6
32-36	16.3	13.8	12.8	12.8	13.9	13.7	11.3	10.8	12.5	12.2	10.4	7.9	8.7	8.5	8.4
>=37	4.2	3.8	3.8	3.7	3.1	3.3	2.9	3.0	2.8	2.7	2.4	2.6	2.9	3.1	3.1
Age of mother (years)															
<20	16.1	13.0	10.8	11.9	12.3	12.6	9.3	8.9	8.9	9.1	8.1	9.3	12.8	15.8	15.3
<18	*	*	*	17.3	17.3	18.7	*	*	*	*	*	*	*	*	*
18-19	18.0	13.0	10.4	8.8	9.4	9.1	*	8.1	*	*	*	*	10.6	15.6	15.4
>=20	7.8	7.9	8.0	7.3	6.7	7.1	6.9	6.8	6.5	6.7	6.4	6.2	6.1	6.6	6.6
20-24	8.1	9.3	9.7	9.6	8.9	8.0	7.9	8.2	7.7	7.2	5.9	6.5	6.4	6.2	7.2
25-29	7.1	7.0	7.5	6.4	5.9	6.9	7.0	6.9	6.9	7.1	6.8	5.4	5.8	6.7	7.0
30-34	8.4	7.2	6.3	5.6	5.6	7.1	7.0	6.0	5.2	5.7	6.2	6.9	6.0	6.0	4.6
>=35	*	8.3	9.3	8.0	6.4	*	*	*	*	6.2	6.8	6.4	6.6	8.1	7.7
Age / Education (years)															
<20 / <appropriate	22.0	17.9	*	*	*	*	*	*	*	*	*	*	18.7	23.7	20.4
<20 / appropriate	11.7	9.8	8.5	10.5	13.7	14.4	12.3	10.5	11.0	10.8	*	*	*	*	11.4
>=20 / <12	14.1	13.1	15.6	12.4	12.1	11.1	12.3	12.1	9.6	8.2	6.5	6.9	7.5	7.2	7.6
>=20 / 12	8.4	8.4	8.6	6.8	6.5	6.6	7.3	7.9	7.8	7.9	7.2	7.4	7.1	7.8	7.6
>=20 / >12	5.2	5.6	5.6	6.0	5.2	5.4	4.4	4.0	4.5	5.1	5.6	5.2	4.8	5.3	5.1

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 24. Infant mortality rates by selected characteristics among whites, 3-year moving averages: Marion County, Indiana, 1990-2006 linked files--Con.

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Education (years)															
<12	15.4	13.6	13.6	13.2	12.5	12.8	11.3	11.2	9.1	8.6	7.2	8.3	9.7	10.3	10.4
0-8	*	*	*	*	*	*	*	*	*	*	*	*	*	8.6	9.1
9-11	15.0	13.5	13.2	12.6	12.8	13.3	12.3	12.1	10.2	9.2	7.9	9.1	11.3	11.1	11.0
=12	8.9	8.6	8.7	6.7	6.9	6.7	7.5	7.8	8.3	8.2	7.2	7.1	7.2	7.8	7.6
>12	5.2	5.5	5.7	6.1	5.3	5.4	4.4	3.9	4.4	5.1	5.6	5.2	4.7	5.3	5.2
13-15	5.8	7.4	7.0	7.2	6.5	6.4	5.5	4.4	4.0	5.1	5.8	7.4	6.8	7.0	6.3
>=16	4.7	4.2	4.7	5.4	4.6	4.7	3.7	3.6	4.8	5.1	5.5	3.7	3.5	4.3	4.5
Live-birth order															
First	7.0	6.0	6.2	6.5	6.4	7.1	6.0	6.7	6.6	6.7	7.1	7.2	7.2	7.7	7.6
Second	9.3	9.2	8.0	7.7	7.4	7.1	7.0	5.7	6.0	6.0	5.6	5.2	6.1	6.7	7.0
Third	11.1	10.7	11.3	8.6	8.4	9.2	9.1	8.5	7.5	7.5	6.2	6.3	6.3	7.1	6.1
Fourth+	13.1	14.3	16.5	14.5	11.1	10.7	9.8	9.8	9.1	10.0	8.0	8.6	8.3	9.8	10.1
Marital status															
Married	7.7	6.9	6.7	6.2	6.0	6.6	6.2	5.7	5.9	6.0	6.1	5.9	6.2	6.6	6.1
Unmarried	12.5	12.9	12.9	12.0	10.6	10.6	9.4	9.7	8.5	8.6	7.4	7.6	7.7	8.8	9.1
Trimester prenatal care began															
First trimester	7.7	7.4	7.4	6.7	6.2	6.5	5.9	6.0	6.4	7.1	6.4	6.2	5.8	7.0	7.2
After first trimester	9.6	9.2	9.8	10.3	10.3	9.5	8.9	7.9	7.1	5.0	5.8	5.7	6.7	5.6	5.5
Second trimester	9.9	9.9	10.4	11.2	9.7	8.8	7.3	6.9	6.3	4.9	5.8	6.0	7.1	6.0	5.6
Third trimester	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
No care	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Prenatal care index[1]															
Adequate plus	17.0	16.9	18.3	17.5	13.8	10.7	8.0	8.3	9.3	10.0	9.4	8.0	8.3	9.9	11.3
Adequate	5.0	4.7	3.8	3.2	3.1	3.7	3.3	2.9	3.0	3.4	3.5	3.5	3.6	4.2	4.4
Intermediate	4.2	4.4	5.3	6.3	5.6	5.8	6.1	*	*	*	*	5.2	*	*	*
Inadequate	9.8	8.5	9.5	9.2	9.3	8.3	7.6	*	6.6	*	*	5.8	6.3	5.7	5.2
No care	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Unknown	24.8	24.7	23.2	20.4	20.4	24.0	25.6	29.1	29.0	33.6	37.3	50.8	60.8	69.3	60.4
Maternal smoking															
Smoking	13.3	12.8	13.8	12.9	11.4	10.8	10.4	10.6	10.2	9.7	6.7	6.8	7.8	11.2	11.1
Not smoking	7.0	6.7	6.3	6.0	6.2	6.9	6.3	5.9	5.7	6.1	5.7	5.7	5.7	6.7	6.7

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services

Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 25. Infant mortality rates by selected characteristics among blacks, 3-year moving averages: Marion County, Indiana, 1990-2006 linked files

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Total	19.3	18.0	17.6	15.3	16.1	14.8	14.4	14.6	14.9	14.1	13.4	13.2	15.3	14.3	15.0
Sex															
Male	20.7	19.7	19.8	16.2	17.9	15.5	16.3	16.4	16.8	15.2	14.4	13.8	15.8	14.5	15.0
Female	17.8	16.3	15.4	14.5	14.2	14.0	12.5	12.8	12.9	13.0	12.5	12.5	14.7	14.0	15.0
Plurality															
Single births	17.9	16.6	16.0	14.3	15.1	14.0	13.0	13.1	13.6	12.9	12.2	11.6	13.5	12.9	14.0
Multiple births	76.7	74.2	74.4	*	*	*	55.4	59.3	52.2	*	45.5	55.7	60.8	50.3	42.9
Birth weight (grams)															
<2,500	110.3	100.4	88.2	78.2	82.7	77.9	75.9	76.2	79.8	78.8	75.6	75.4	84.1	84.6	89.5
<1,500	423.9	411.8	334.5	308.6	314.7	327.8	309.6	306.3	294.8	286.1	283.2	294.8	314.5	291.3	304.1
1,500-2,499	17.6	17.4	22.7	24.6	20.6	*	*	*	20.1	*	16.7	*	21.1	23.3	22.5
>=2,500	5.4	5.5	6.4	5.0	5.2	3.9	3.5	3.5	3.6	3.7	3.1	3.1	3.6	3.2	2.9
Gestational age (weeks)															
<37	77.0	71.0	60.0	52.4	59.6	62.1	62.3	60.7	59.0	54.1	54.1	54.8	64.6	60.2	65.8
<32	269.9	252.9	237.6	230.6	250.6	229.8	226.7	222.4	230.0	216.3	228.0	231.9	260.9	240.6	252.9
32-36	15.4	16.0	15.8	*	*	*	13.8	*	11.4	*	*	*	*	11.8	12.5
>=37	5.7	5.8	7.3	6.3	5.7	4.1	3.3	3.8	4.3	4.7	4.0	3.9	4.1	3.9	3.4
Age of mother (years)															
<20	20.8	20.6	19.8	16.0	18.8	17.0	17.7	13.1	13.3	14.3	15.1	14.9	16.7	14.0	13.2
<18	21.4	24.5	22.0	17.1	18.1	*	17.0	*	*	*	*	*	*	*	*
18-19	20.2	17.2	17.9	15.0	19.4	19.9	18.2	12.7	*	13.2	15.1	13.5	15.2	*	*
>=20	18.5	16.8	16.7	15.1	15.1	14.0	13.4	15.1	15.4	14.0	13.0	12.7	14.9	14.3	15.4
20-24	20.4	17.3	18.6	16.3	16.3	13.8	13.5	16.4	15.5	14.2	12.4	12.6	15.2	14.5	15.3
25-29	13.8	16.1	14.6	14.8	15.0	14.6	11.7	12.2	14.5	13.3	14.0	12.5	16.0	13.8	16.1
30-34	18.0	*	14.5	*	*	*	*	15.8	15.7	14.5	*	*	12.4	14.0	15.3
>=35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Age / Education (years)															
<20 / <appropriate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<20 / appropriate	15.5	16.2	18.2	15.0	14.4	10.7	12.2	10.9	13.2	13.7	13.3	12.4	14.0	12.7	12.3
>=20 / <12	24.8	22.3	23.4	16.4	17.9	16.4	16.1	17.8	16.7	13.4	13.6	14.4	17.9	16.7	15.7
>=20 / 12	15.5	13.9	14.0	12.5	13.2	11.5	11.3	13.4	15.0	13.4	11.5	12.5	14.0	13.9	13.9
>=20 / >12	14.2	13.8	13.4	12.9	12.8	12.2	11.6	12.6	12.5	12.5	12.4	10.7	13.4	12.6	16.5

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 25. Infant mortality rates by selected characteristics among blacks, 3-year moving averages: Marion County, Indiana, 1990-2006 linked files--Con.

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Education (years)															
<12	21.2	20.4	20.9	15.1	17.5	15.5	15.4	14.1	14.4	13.4	15.3	16.6	19.4	16.5	15.2
0-8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9-11	20.9	20.0	20.7	15.4	17.3	15.5	14.5	13.9	14.2	14.0	16.0	17.7	20.2	17.0	15.4
=12	15.4	13.9	14.6	13.2	13.3	11.5	11.8	12.7	14.2	13.0	11.4	11.3	12.4	12.7	12.9
>12	14.2	13.7	13.3	12.5	12.8	12.2	11.9	13.0	13.0	12.7	12.2	10.7	13.5	12.5	16.3
13-15	13.6	13.0	11.9	11.6	12.6	13.0	12.5	14.3	13.0	14.5	12.8	11.4	13.6	12.9	18.0
>=16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Live-birth order															
First	18.5	16.5	15.9	11.9	15.2	15.4	16.2	16.0	15.3	15.4	12.6	12.9	14.5	14.5	16.0
Second	18.8	18.0	15.5	16.0	15.0	14.1	11.9	9.4	10.5	10.1	11.7	9.7	14.1	13.7	15.7
Third	15.3	16.9	18.1	15.9	16.7	13.7	12.5	14.2	16.1	15.4	15.0	15.5	15.6	14.2	13.6
Fourth+	23.0	18.5	21.9	18.8	18.7	15.2	15.5	19.6	17.1	14.7	15.0	16.9	18.5	14.8	13.3
Marital status															
Married	16.8	14.6	12.3	9.7	12.4	13.5	13.8	14.4	14.3	11.8	8.4	6.5	8.5	10.5	14.9
Unmarried	20.0	19.1	19.3	17.3	17.3	15.2	14.7	14.7	15.1	14.9	15.1	15.4	17.5	15.5	15.1
Trimester prenatal care began															
First trimester	15.5	14.2	13.3	12.1	13.2	13.4	12.7	13.8	13.7	12.8	11.7	11.4	13.9	13.5	15.4
After first trimester	12.5	13.3	16.4	14.5	12.6	10.4	9.4	8.7	7.2	7.6	8.5	10.7	10.8	10.5	8.8
Second trimester	12.9	14.3	17.2	15.6	12.7	9.9	8.8	8.7	8.2	8.1	8.6	10.1	10.7	11.5	10.0
Third trimester	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
No care	64.9	56.4	68.8	*	87.6	*	*	*	*	*	*	*	77.2	*	*
Prenatal care index[1]															
Adequate plus	25.9	30.0	24.7	21.6	16.8	16.3	14.4	16.0	16.0	15.2	14.3	15.7	17.6	17.8	18.4
Adequate	7.3	6.6	8.6	8.3	8.6	7.1	7.1	6.7	6.8	6.2	6.0	6.2	8.6	8.5	10.4
Intermediate	*	8.0	9.2	8.8	*	*	*	*	*	*	*	*	*	*	*
Inadequate	14.5	12.6	13.4	11.2	12.4	11.8	9.8	9.4	*	8.9	*	10.7	10.0	8.7	7.2
No care	64.9	56.4	68.8	*	87.6	*	*	*	*	*	*	*	77.2	*	*
Unknown	44.7	50.3	45.3	35.9	33.4	37.2	44.0	56.0	60.9	57.3	65.2	64.8	89.1	68.2	105.4
Maternal smoking															
Smoking	30.5	27.2	23.6	16.2	17.7	15.4	19.2	17.9	17.2	16.0	21.7	27.0	28.8	23.2	18.3
Not smoking	15.1	14.4	15.1	14.0	15.3	14.6	13.6	14.1	14.3	13.5	11.8	10.8	13.0	12.8	14.5

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services

Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 26. Infant, neonatal, and postneonatal mortality rates by race and Hispanic origin of mother: Marion County, Indiana, 1990-1994, 1996-2000, and 2002-2006 linked files

Race and Hispanic origin of mother	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
All races/origins					
Infant	11.1	9.4	9.2	-15.2	-1.6 **
Neonatal	7.1	6.5	6.5	-9.1 **	-0.3 **
Postneonatal	3.9	2.9	2.7	-26.5	-4.6 **
White					
Infant	8.5	7.2	7.2	-15.1	-0.8 **
Neonatal	5.4	4.9	5.0	-9.3 **	2.0 **
Postneonatal	3.1	2.3	2.2	-25.1	-6.5 **
White, Non-Hispanic					
Infant	8.5	7.2	7.6	-15.1	5.6 **
Neonatal	5.4	4.8	5.3	-10.7 **	9.2 **
Postneonatal	3.1	2.4	2.3	-22.8	-1.8 **
Black					
Infant	18.1	15.1	14.8	-16.7	-1.6 **
Neonatal	12.0	10.8	10.4	-10.6 **	-3.1 **
Postneonatal	6.0	4.3	4.4	-28.9 **	2.3 **
Black, Non-Hispanic					
Infant	18.0	14.9	14.9	-17.1	-0.4 **
Neonatal	12.0	10.7	10.5	-10.7 **	-2.0 **
Postneonatal	6.1	4.3	4.4	-29.8	3.7 **
Hispanic					
Infant	*	7.3	5.2	---	-28.5 **
Neonatal	*	*	3.7	---	---
Postneonatal	*	*	*	---	---

[1]The total number of infant deaths and live births used in calculating the mortality rates are derived by summation of the respective yearly numbers presented in table B-1 of the Appendix B.

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

**Not significant at $p<0.05$.

---Not applicable

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 27. Infant mortality rates by selected characteristics among all races: Marion County, Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Total	11.1	9.4	9.2	-15.2	-1.6 **
Sex					
Male	12.6	11.0	9.7	-12.4 **	-11.9 **
Female	9.4	7.7	8.7	-18.4	13.6 **
Plurality					
Single births	9.9	8.4	8.1	-14.9	-4.1 **
Multiple births	52.8	39.0	41.1	-26.1 **	5.5 **
Birthweight					
Less than 2,500 grams	82.3	65.9	68.2	-19.9	3.5 **
Less than 1,500 grams	338.8	279.0	288.2	-17.6	3.3 **
1,500-2,499 grams	24.9	17.6	18.2	-29.4 **	3.3 **
2,500 grams or more	4.1	3.0	2.8	-24.9	-9.3 **
Gestational age					
Less than 37 weeks	56.3	48.6	44.7	-13.7	-8.0 **
Less than 32 weeks	234.4	212.0	220.9	-9.6 **	4.2 **
32-36 weeks	14.6	12.8	9.3	-12.5 **	-26.8 **
37 weeks or more	4.6	3.3	3.1	-28.4	-4.8 **
Age of mother					
Under 20 years	16.3	12.3	13.4	-24.9	9.0 **
Under 18 years	17.4	14.2	15.5	-18.2 **	9.4 **
18-19 years	15.7	11.1	12.3	-29.0 **	10.5 **
20 years and over	9.9	8.9	8.6	-10.8 **	-2.8 **
20-24 years	12.4	10.6	9.7	-14.3 **	-8.6 **
25-29 years	8.4	8.6	8.5	2.9 **	-2.1 **
30-34 years	8.6	7.7	6.9	-10.3 **	-10.7 **
35 years and over	10.0	7.0	9.2	-30.1 **	31.2 **
Age/Education					
<20, less than appropriate	18.5	8.8	17.9	-52.2	102.8
<20, appropriate	13.3	12.4	10.6	-6.3 **	-15.0 **
20+, <12 years of education	16.5	12.9	9.8	-21.9	-24.4
20+, 12 years of education	9.9	9.3	9.8	-6.0 **	5.3 **
20+, 13+ years of education	6.8	6.1	7.0	-11.4 **	15.5 **

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 27. Infant mortality rates by selected characteristics among all races: Marion County, Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files--Con.

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Educational attainment					
Less than 12 years	16.2	12.2	11.9	-24.4	-3.2 **
0-8 years	19.1	9.5	8.2	-50.4 **	-14.0 **
9-11 years	15.8	12.7	13.0	-19.9	2.6 **
12 years	10.3	9.5	9.2	-7.1 **	-3.2 **
More than 12 years	6.8	6.1	7.0	-10.5 **	15.0 **
13-15 years	8.1	7.3	9.4	-9.8 **	29.5 **
16 years and over	5.7	5.2	5.1	-9.6 **	-0.8 **
Live-birth order					
First	8.6	9.0	9.5	4.5 **	5.3 **
Second	11.2	7.9	8.0	-29.2	1.5 **
Third	12.1	10.4	8.9	-14.3 **	-14.0 **
Fourth+	17.0	12.2	11.6	-28.2 **	-5.0 **
Marital status					
Married	7.8	7.2	6.8	-7.3 **	-5.7 **
Unmarried	16.2	12.2	11.5	-24.6	-5.4 **
Trimester prenatal care began					
First trimester	8.7	8.1	8.4	-6.5 **	3.9 **
After first trimester	11.4	7.9	7.5	-30.4	-5.3 **
Second trimester	11.9	7.3	7.8	-38.6	7.0 **
Third trimester	*	12.2	*	---	---
No care	58.6	60.1	50.6	2.4 **	-15.8 **
Prenatal care index1					
Adequate plus	19.4	10.9	12.1	-43.8	11.2 **
Adequate	4.8	4.1	5.1	-16.2 **	26.4 **
Intermediate	6.0	4.8	4.5	-19.9 **	-5.9 **
Inadequate	11.0	7.9	7.0	-28.2 **	-12.3 **
No care	58.6	60.1	50.6	2.4 **	-15.8 **
Unknown	32.4	36.1	71.3	11.7 **	97.4
Maternal smoking					
Smoking	16.0	11.8	14.0	-26.5	18.9 **
Not smoking	8.8	8.7	8.3	-0.9 **	-5.2 **

[1]The total number of infant deaths and live births used in calculating the mortality rates are derived by summation of the respective yearly numbers presented in table A-2 of the Appendix A.

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

**Not significant at p<0.05.

---Not applicable.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 28. Infant mortality rates by selected characteristics whites: Marion County, Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Total	8.5	7.2	7.2	-15.1	-0.8 **
Sex					
Male	9.9	8.9	7.6	-10.7 **	-14.3 **
Female	6.9	5.5	6.7	-20.3	22.1 **
Plurality					
Single births	7.5	6.4	6.1	-15.5	-4.8 **
Multiple births	44.5	33.6	38.4	-24.4 **	14.4 **
Birthweight					
Less than 2,500 grams	72.9	57.1	58.1	-21.7	1.8 **
Less than 1,500 grams	307.4	254.5	274.2	-17.2 **	7.7 **
1,500-2,499 grams	27.7	18.7	16.5	-32.4 **	-11.9 **
2,500 grams or more	3.5	2.7	2.7	-22.7	-2.5 **
Gestational age					
Less than 37 weeks	46.4	40.4	34.6	-13.0 **	-14.3 **
Less than 32 weeks	239.2	194.9	193.5	-18.5 **	-0.7 **
32-36 weeks	14.7	12.8	8.4	-12.4 **	-34.2 **
37 weeks or more	4.0	2.9	2.9	-26.4	0.3 **
Age of mother					
Under 20 years	13.5	9.4	13.2	-29.8 **	39.6 **
Under 18 years	12.6	12.7	14.6	0.9 **	14.7 **
18-19 years	13.9	7.8	12.6	-44.2 **	61.5 **
20 years and over	7.8	6.9	6.4	-11.4 **	-6.7 **
20-24 years	9.1	7.9	7.1	-12.9 **	-10.7 **
25-29 years	7.1	7.3	6.3	2.4 **	-14.2 **
30-34 years	7.2	6.2	5.5	-13.3 **	-11.6 **
35 years and over	7.9	5.1	7.3	-35.9 **	43.0 **
Age/Education					
<20, less than appropriate	18.2	*	18.4	---	---
<20, appropriate	10.1	12.1	9.4	19.5 **	-22.5 **
20+, <12 years of education	14.5	11.0	7.4	-24.6 **	-32.2 **
20+, 12 years of education	8.1	7.6	7.4	-6.3 **	-2.2 **
20+, 13+ years of education	5.6	4.7	5.2	-15.3 **	9.5 **

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 28. Infant mortality rates by selected characteristics whites: Marion County, Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files--Con.

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Educational attainment					
Less than 12 years	14.5	10.4	9.7	-28.3	-6.6 **
0-8 years	18.5	*	8.1	---	---
9-11 years	14.0	11.3	10.5	-19.1 **	-7.2 **
12 years	8.3	7.9	7.3	-4.8 **	-7.7 **
More than 12 years	5.6	4.7	5.2	-16.1 **	11.2 **
13-15 years	6.5	4.9	6.9	-23.4 **	38.4 **
16 years and over	4.9	4.5	4.2	-8.7 **	-7.4 **
Live-birth order					
First	6.4	6.5	7.7	1.7 **	18.9 **
Second	9.0	6.7	6.2	-25.3	-7.2 **
Third	10.6	8.7	6.2	-17.5 **	-28.8 **
Fourth+	14.2	9.5	9.0	-33.2 **	-4.7 **
Marital status					
Married	7.1	6.2	6.1	-12.1 **	-1.3 **
Unmarried	12.6	9.3	8.6	-26.2	-7.5 **
Trimester prenatal care began					
First trimester	7.3	6.4	6.6	-12.6 **	2.7 **
After first trimester	9.8	7.8	6.1	-20.7 **	-21.8 **
Second trimester	10.3	6.7	6.2	-34.9 **	-7.1 **
Third trimester	*	*	*	---	---
No care	46.9	*	*	---	---
Prenatal care index1					
Adequate plus	17.7	9.2	9.9	-48.0	7.5 **
Adequate	4.2	3.3	4.0	-20.9 **	22.7 **
Intermediate	5.1	4.9	3.6	-4.0 **	-25.1 **
Inadequate	9.5	7.0	6.0	-26.4 **	-14.1 **
No care	46.9	*	*	---	---
Unknown	23.4	27.3	60.0	16.6 **	119.6
Maternal smoking					
Smoking	13.4	10.3	8.3	-23.1	-19.3 **
Not smoking	6.5	6.3	6.3	-3.8 **	0.7 **

[1]The total number of infant deaths and live births used in calculating the mortality rates are derived by summation of the respective yearly numbers presented in table A-2 of the Appendix A.

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

**Not significant at p<0.05.

---Not applicable.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 29. Infant mortality rates by selected characteristics blacks: Marion County, Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Total	18.1	15.1	14.8	-16.7	-1.6 **
Sex					
Male	19.7	16.9	15.3	-14.1 **	-9.7 **
Female	16.4	13.1	14.3	-20.0 **	9.2 **
Plurality					
Single births	16.6	13.7	13.5	-17.0	-2.0 **
Multiple births	77.7	54.4	50.5	-30.1 **	-7.2 **
Birthweight					
Less than 2,500 grams	97.5	78.5	84.8	-19.4	8.0 **
Less than 1,500 grams	377.7	304.4	307.2	-19.4 **	0.9 **
1,500-2,499 grams	20.9	15.7	20.3	-24.6 **	29.2 **
2,500 grams or more	5.7	4.0	3.2	-30.1 **	-18.7 **
Gestational age					
Less than 37 weeks	66.9	60.9	63.7	-8.9 **	4.5 **
Less than 32 weeks	253.3	227.2	253.0	-10.3 **	11.4 **
32-36 weeks	15.0	12.3	11.4	-18.3 **	-7.4 **
37 weeks or more	6.3	4.3	3.7	-32.9 **	-12.4 **
Age of mother					
Under 20 years	20.0	16.2	13.8	-19.1 **	-15.0 **
Under 18 years	21.6	16.2	16.4	-25.1 **	1.4 **
18-19 years	18.6	16.1	12.3	-13.2 **	-24.0 **
20 years and over	17.3	14.7	15.1	-14.7 **	2.4 **
20-24 years	19.4	15.0	15.0	-22.8 **	-0.1 **
25-29 years	13.4	13.8	15.8	2.5 **	14.4 **
30-34 years	16.5	15.1	13.2	-8.6 **	-12.2 **
35 years and over	*	15.6	16.7	---	6.7 **
Age/Education					
<20, less than appropriate	19.7	*	*	---	---
<20, appropriate	16.6	12.8	12.1	-22.6 **	-5.9 **
20+, <12 years of education	21.9	17.0	17.0	-22.7 **	0.3 **
20+, 12 years of education	14.3	13.5	14.3	-5.8 **	6.0 **
20+, 13+ years of education	13.7	12.3	14.2	-10.3 **	15.4 **

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 29. Infant mortality rates by selected characteristics blacks: Marion County, Indiana, 1990-1994, 1996-2000, and 2002-2006 period linked files--Con.

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Educational attainment					
Less than 12 years	19.5	15.5	17.2	-20.6 **	10.9 **
0-8 years	*	*	*	---	---
9-11 years	19.3	15.1	17.9	-21.4 **	18.0 **
12 years	14.9	13.2	12.8	-11.1 **	-3.3 **
More than 12 years	13.5	12.6	14.1	-6.6 **	11.7 **
13-15 years	12.8	13.2	14.7	3.3 **	11.0 **
16 years and over	*	*	12.8	---	---
Live-birth order					
First	16.4	16.4	14.9	0.4 **	-9.6 **
Second	18.0	11.7	13.9	-34.6 **	18.2 **
Third	15.6	14.9	15.4	-4.4 **	3.4 **
Fourth+	21.6	15.9	15.7	-26.2 **	-1.3 **
Marital status					
Married	13.7	14.3	11.6	4.4 **	-18.7 **
Unmarried	19.5	15.3	15.8	-21.6	3.2 **
Trimester prenatal care began					
First trimester	13.8	13.6	14.2	-1.5 **	5.0 **
After first trimester	14.0	8.5	9.9	-39.0 **	16.0 **
Second trimester	14.6	8.5	10.4	-42.0 **	22.2 **
Third trimester	*	*	*	---	---
No care	66.8	69.6	64.6	4.1 **	-7.1 **
Prenatal care index1					
Adequate plus	25.1	15.8	18.4	-37.0 **	16.2 **
Adequate	8.1	7.1	9.1	-13.2 **	28.6 **
Intermediate	8.5	*	6.5	---	---
Inadequate	13.4	9.4	8.6	-29.9 **	-7.8 **
No care	66.8	69.6	64.6	4.1 **	-7.1 **
Unknown	41.6	49.1	92.1	18.1 **	87.5
Maternal smoking					
Smoking	26.3	17.4	23.7	-33.9 **	36.5 **
Not smoking	14.7	14.6	13.4	-0.8 **	-8.0 **

[1]The total number of infant deaths and live births used in calculating the mortality rates are derived by summation of the respective yearly numbers presented in table A-2 of the Appendix A.

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

**Not significant at p<0.05.

---Not applicable.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 30. Infant, neonatal, and postneonatal mortality rates by race and Hispanic origin of mother, 3-year moving averages: Lake County, Indiana, 1990-2006 linked files

Race and Hispanic origin of mother	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in the specified group														
All races/origins															
Infant	10.4	10.5	10.8	11.0	10.9	10.1	9.9	9.4	9.0	8.7	9.2	9.0	9.0	9.0	9.8
Neonatal	6.4	6.3	7.1	7.5	7.4	6.7	6.3	6.1	5.6	5.2	5.6	5.9	6.2	6.0	6.1
Postneonatal	4.0	4.2	3.7	3.5	3.6	3.4	3.6	3.3	3.4	3.5	3.6	3.1	2.8	3.0	3.7
White															
Infant	8.1	7.7	8.1	8.0	8.0	7.4	7.0	6.3	5.6	6.1	6.9	7.3	6.8	6.4	7.0
Neonatal	5.1	4.5	5.3	5.3	5.3	4.6	4.1	3.9	4.0	4.2	4.8	5.0	4.8	4.1	3.8
Postneonatal	3.0	3.2	2.8	2.7	2.7	2.8	2.9	2.4	1.6	1.9	2.1	2.3	2.0	2.4	3.2
White, Non-Hispanic															
Infant	8.0	7.4	7.8	7.6	7.3	7.0	6.4	6.1	5.3	5.8	6.3	6.7	6.5	6.6	7.0
Neonatal	5.2	4.4	5.1	5.0	4.7	4.1	3.6	3.8	3.8	4.0	4.2	4.5	4.4	4.2	3.8
Postneonatal	2.8	3.0	2.6	2.5	2.6	2.9	2.8	2.4	*	*	2.1	2.2	2.1	2.4	3.1
Black															
Infant	15.3	16.3	16.2	17.3	17.2	16.2	16.3	15.5	15.7	14.0	14.1	13.0	13.7	14.6	15.8
Neonatal	9.3	10.2	10.7	12.1	11.7	11.4	11.1	10.3	8.9	7.2	7.5	8.0	9.1	10.3	10.9
Postneonatal	6.0	6.1	5.6	5.2	5.5	4.8	5.2	5.2	6.8	6.8	6.6	5.0	4.6	4.4	4.9
Black, Non-Hispanic															
Infant	15.3	16.3	16.3	17.4	17.3	16.3	16.4	15.5	15.8	14.1	14.2	13.1	13.8	14.7	16.0
Neonatal	9.3	10.2	10.7	12.2	11.8	11.5	11.2	10.4	8.9	7.3	7.5	8.1	9.2	10.3	11.0
Postneonatal	6.0	6.1	5.6	5.2	5.5	4.8	5.2	5.2	6.9	6.8	6.6	5.0	4.6	4.4	5.0
Hispanic															
Infant	9.0	9.0	9.7	9.9	10.8	8.9	8.9	7.0	6.7	6.9	8.9	9.1	7.7	6.1	6.9
Neonatal	*	*	*	*	7.7	*	*	*	*	*	6.6	6.5	6.0	*	*
Postneonatal	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 31. Infant mortality rates by selected characteristics among all races, 3-year moving averages: Lake County, Indiana, 1990-2006 linked files

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Total	10.4	10.5	10.8	11.0	10.9	10.1	9.9	9.4	9.0	8.7	9.2	9.0	9.0	9.0	9.8
Sex															
Male	12.6	12.3	12.4	13.0	12.6	11.0	10.0	10.1	10.4	10.4	10.2	10.5	10.0	9.9	10.4
Female	8.1	8.6	9.0	9.0	9.2	9.2	9.8	8.5	7.5	6.9	8.0	7.2	7.7	2.0	2.2
Plurality															
Single births	9.7	9.9	10.0	10.3	10.0	9.5	9.4	9.1	8.8	8.4	8.3	7.8	7.7	7.9	8.6
Multiple births	37.5	35.2	37.7	36.4	43.3	*	*	*	*	*	37.6	44.8	43.2	36.7	40.2
Birth weight (grams)															
<2,500	80.2	81.1	88.4	85.5	75.4	60.3	64.1	64.2	60.8	57.2	63.5	63.3	63.5	59.6	66.1
<1,500	280.9	287.7	337.0	339.9	315.6	248.6	266.8	270.1	252.7	224.0	233.2	244.7	253.5	243.4	270.1
1,500-2,499	31.4	29.5	26.1	24.8	19.0	13.4	*	*	14.9	15.4	19.0	15.4	18.5	16.2	18.7
>=2,500	4.1	4.0	3.6	3.7	4.0	4.4	4.1	3.7	3.3	3.4	3.5	3.5	3.1	3.2	3.3
Gestational age (weeks)															
<37	50.1	53.5	56.8	56.3	54.3	46.6	48.9	45.4	42.0	38.5	41.8	40.8	41.7	38.4	41.3
<32	177.0	186.3	212.7	225.8	220.0	188.2	200.7	196.8	183.9	169.6	168.7	174.5	177.3	179.6	191.5
32-36	17.3	18.0	15.5	12.9	10.6	*	*	*	*	*	10.9	10.6	12.3	8.9	8.8
>=37	4.5	4.1	3.7	3.9	4.1	4.4	4.0	3.9	3.9	3.9	3.8	3.4	3.1	3.5	3.8
Age of mother (years)															
<20	12.2	12.5	13.3	14.1	15.2	14.6	12.5	9.6	8.4	9.9	11.5	12.0	11.6	11.6	10.5
<18	*	*	*	13.5	15.3	*	*	*	*	*	*	*	*	*	*
18-19	11.9	12.7	13.8	14.5	15.2	15.4	12.9	11.0	*	*	*	11.9	*	*	*
>=20	10.1	10.1	10.3	10.4	10.0	9.2	9.4	9.3	9.1	8.5	8.9	8.6	8.6	8.7	9.7
20-24	10.7	9.8	11.4	12.7	12.9	9.8	10.2	9.2	9.5	8.1	9.6	10.1	10.1	8.8	10.4
25-29	9.8	10.5	9.2	9.2	8.0	8.6	8.8	9.0	8.4	8.6	9.3	8.7	8.7	9.4	10.6
30-34	8.0	8.3	9.1	8.9	8.7	8.5	8.2	9.5	9.0	8.5	6.7	6.2	6.0	6.0	6.3
>=35	14.8	14.7	12.3	9.9	9.6	10.3	10.8	9.8	10.0	9.6	9.9	9.2	9.5	11.4	11.8
Age / Education (years)															
<20 / <appropriate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<20 / appropriate	11.7	10.8	12.5	14.6	17.5	16.3	13.2	8.9	8.5	10.8	13.2	12.8	*	*	*
>=20 / <12	12.1	11.1	13.2	14.0	15.6	12.3	13.1	10.3	9.9	9.4	9.4	9.6	9.4	11.5	12.4
>=20 / 12	10.0	9.5	9.2	11.1	11.5	10.0	9.9	11.5	12.0	11.2	11.7	10.8	10.1	8.5	11.3
>=20 / >12	9.7	10.5	10.4	8.7	7.2	7.7	7.7	7.1	6.6	6.5	6.6	6.5	7.2	8.0	8.2

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 31. Infant mortality rates by selected characteristics among all races, 3-year moving averages: Lake County, Indiana, 1990-2006 linked files--Con.

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Education (years)															
<12	11.6	11.8	12.8	13.5	14.3	12.9	12.8	10.5	9.9	10.3	10.6	11.0	11.4	13.1	12.8
0-8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9-11	9.3	9.9	11.4	12.9	14.6	13.6	13.7	11.5	11.1	11.0	11.4	11.8	12.2	12.5	12.4
=12	10.5	10.0	9.9	11.7	12.8	11.2	10.3	10.8	11.0	10.3	10.9	10.4	9.5	8.2	10.6
>12	9.7	10.3	10.5	8.9	7.3	7.7	7.9	7.2	6.8	6.7	7.1	6.8	7.3	7.9	8.0
13-15	8.8	9.7	11.2	9.8	8.3	7.8	8.4	7.7	7.3	7.3	7.9	7.9	8.1	9.1	10.0
>=16	11.5	11.5	9.2	7.2	*	7.5	7.0	6.4	6.0	5.7	5.8	*	6.0	5.9	5.0
Live-birth order															
First	8.4	8.3	9.1	10.0	10.1	10.1	9.1	8.3	8.2	8.5	8.8	8.4	9.2	9.7	10.3
Second	11.5	13.0	12.4	12.3	10.4	9.3	9.1	9.6	8.1	8.4	7.8	7.8	7.1	6.7	7.9
Third	11.8	10.0	9.8	9.8	10.9	9.9	11.1	10.8	11.2	8.5	10.9	9.8	9.8	7.7	8.8
Fourth+	12.3	11.8	13.2	12.9	15.6	12.8	12.1	8.9	9.3	9.8	10.5	11.5	10.7	13.3	12.9
Marital status															
Married	8.5	7.8	7.2	6.8	6.1	6.4	6.5	6.4	5.9	5.9	6.2	6.4	6.6	6.7	6.9
Unmarried	13.2	14.1	15.1	16.0	16.5	14.5	13.9	12.7	12.4	11.7	12.5	11.9	11.5	11.3	12.5
Trimester prenatal care began															
First trimester	10.3	10.0	9.5	9.3	9.3	8.9	8.9	8.7	8.2	8.1	7.9	7.5	7.8	8.3	8.9
After first trimester	8.3	8.2	10.2	10.9	10.8	9.1	8.1	7.2	7.5	8.1	11.1	11.6	10.2	8.9	9.0
Second trimester	8.2	8.4	11.2	11.8	10.0	7.2	6.5	6.9	8.2	9.0	11.5	11.0	9.7	8.9	9.6
Third trimester	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
No care	*	43.2	45.9	51.5	45.8	46.4	51.2	*	*	*	*	*	*	*	*
Prenatal care index[1]															
Adequate plus	16.0	14.8	16.5	16.0	15.1	11.6	12.1	12.4	11.0	10.4	10.4	10.9	10.7	11.2	12.3
Adequate	5.1	5.3	5.8	5.9	5.9	5.3	5.2	4.7	4.4	5.2	5.8	4.8	3.9	3.5	4.4
Intermediate	10.1	10.9	8.7	7.7	8.1	*	*	*	*	*	*	*	*	*	*
Inadequate	10.0	8.5	10.2	10.4	12.1	11.0	9.9	7.4	*	*	9.4	10.9	10.2	10.1	10.5
No care	*	43.2	45.9	51.5	45.8	46.4	51.2	*	*	*	*	*	*	*	*
Unknown	*	*	43.6	37.0	28.7	24.7	17.8	20.2	22.6	23.0	21.8	21.6	25.0	21.6	18.4
Maternal smoking															
Smoking	11.7	12.8	13.6	15.5	15.9	14.0	12.4	11.8	11.7	11.5	11.2	12.0	11.6	11.5	14.6
Not smoking	9.9	9.8	9.9	9.8	9.7	9.3	9.4	8.9	8.5	8.2	8.9	8.5	8.5	8.6	9.0

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services

Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 32. Infant mortality rates by selected characteristics among whites, 3-year moving averages: Lake County, Indiana, 1990-2006 linked files

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Total	8.1	7.7	8.1	8.0	8.0	7.4	7.0	6.3	5.6	6.1	6.9	7.3	6.8	6.4	7.0
Sex															
Male	10.1	9.7	9.7	9.6	9.1	8.1	7.6	7.8	7.3	7.4	7.7	8.5	7.6	7.0	7.9
Female	5.9	5.6	6.3	6.3	6.9	6.7	6.4	4.8	3.8	4.7	6.1	5.8	5.8	5.7	6.0
Plurality															
Single births	7.6	7.2	7.5	7.6	7.6	7.2	7.0	6.3	5.4	5.6	6.2	6.6	6.3	6.0	6.0
Multiple births	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Birth weight (grams)															
<2,500	80.2	72.9	87.9	80.8	76.3	54.5	54.4	50.7	49.2	54.3	61.6	56.7	49.0	41.3	51.3
<1,500	324.5	272.2	343.6	328.9	346.9	235.7	234.3	233.5	245.3	256.3	251.5	237.3	222.2	194.8	235.3
1,500-2,499	30.0	29.2	30.4	31.4	25.5	*	*	*	*	*	*	*	*	*	*
>=2,500	3.5	3.5	2.8	3.0	2.9	3.6	3.1	2.8	1.8	2.2	2.6	3.3	3.1	3.3	3.2
Gestational age (weeks)															
<37	46.4	43.2	49.5	45.4	48.0	39.6	41.5	35.1	34.0	33.9	37.9	35.1	33.5	28.8	31.2
<32	192.0	172.4	210.3	211.8	232.7	188.0	194.6	171.2	176.9	183.2	179.2	166.1	147.6	142.9	164.8
32-36	17.5	16.6	15.6	*	*	*	*	*	*	*	*	*	13.6	*	*
>=37	3.9	3.6	3.1	3.3	3.1	3.4	2.9	2.9	2.0	2.4	2.7	3.2	2.7	2.9	3.1
Age of mother (years)															
<20	*	*	12.1	11.7	12.5	14.5	13.9	*	*	*	*	*	*	*	*
<18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18-19	*	*	*	*	*	17.3	*	*	*	*	*	*	*	*	*
>=20	7.8	7.3	7.6	7.5	7.4	6.4	6.1	5.8	5.5	6.0	7.0	7.0	6.3	5.8	6.8
20-24	8.8	7.5	8.4	8.8	9.2	6.9	6.2	*	*	5.5	7.1	8.7	7.7	5.9	7.7
25-29	6.5	7.0	6.3	6.5	6.1	6.3	6.7	6.8	6.9	7.2	8.2	7.1	6.0	5.9	7.6
30-34	6.4	5.7	6.9	7.1	6.7	*	*	*	*	*	*	*	*	*	*
>=35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Age / Education (years)															
<20 / <appropriate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<20 / appropriate	*	*	*	*	16.2	16.7	*	*	*	*	*	*	*	*	*
>=20 / <12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
>=20 / 12	8.4	6.8	6.9	8.3	9.9	8.0	7.3	8.2	7.6	7.8	7.6	8.4	7.5	5.7	7.4
>=20 / >12	6.7	7.2	6.8	5.4	4.0	4.6	4.4	3.8	4.2	4.8	6.0	4.9	4.7	4.8	5.6

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 32. Infant mortality rates by selected characteristics among whites, 3-year moving averages: Lake County, Indiana, 1990-2006 linked files--Con.

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Education (years)															
<12	9.3	10.3	12.8	12.8	11.7	9.8	9.4	*	*	*	*	10.1	*	8.2	*
0-8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9-11	*	*	10.0	10.8	11.2	10.3	10.3	*	*	*	*	11.3	10.0	*	*
=12	8.9	7.1	7.1	8.5	10.8	9.4	8.3	8.2	7.2	7.1	6.8	8.1	8.8	7.7	8.7
>12	6.6	7.1	6.7	5.3	3.9	4.7	4.6	4.0	4.4	5.0	6.3	5.1	4.0	4.0	4.9
13-15	*	6.1	6.2	5.3	*	*	*	*	*	*	6.0	5.8	*	5.5	6.9
>=16	9.4	8.7	*	*	*	*	*	*	*	*	6.7	*	*	*	*
Live-birth order															
First	6.4	5.6	6.1	6.4	7.5	8.7	7.5	6.2	4.6	5.4	6.3	6.8	7.3	6.7	6.8
Second	8.5	8.9	8.5	8.7	6.7	6.5	6.0	6.1	5.8	7.1	6.9	5.9	4.4	5.0	7.5
Third	11.4	9.5	8.4	*	8.9	*	*	*	*	*	8.2	8.9	7.9	*	*
Fourth+	*	*	13.8	13.6	*	*	*	*	*	*	*	*	*	*	*
Marital status															
Married	7.4	6.7	6.2	5.9	5.3	5.4	5.1	5.0	4.9	5.3	5.9	5.6	5.6	5.1	5.3
Unmarried	10.5	10.6	12.9	13.2	14.2	11.8	11.3	9.2	7.1	7.7	8.9	10.4	9.0	8.8	9.8
Trimester prenatal care began															
First trimester	8.0	7.4	6.8	6.5	6.8	6.8	6.4	5.7	5.0	5.3	5.7	6.1	5.9	5.6	6.0
After first trimester	*	*	8.6	*	*	*	*	*	*	*	*	*	*	*	*
Second trimester	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Third trimester	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
No care	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Prenatal care index[1]															
Adequate plus	14.2	12.0	11.5	10.0	9.5	9.0	9.5	9.2	6.9	6.8	7.4	8.6	7.9	7.1	8.9
Adequate	3.6	3.6	3.7	4.4	4.3	3.7	*	*	*	4.2	5.1	4.6	*	*	*
Intermediate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Inadequate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
No care	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Unknown	*	*	*	34.8	23.8	22.0	*	*	*	*	21.8	22.3	23.4	19.1	*
Maternal smoking															
Smoking	10.3	10.6	11.6	12.2	12.7	10.2	8.9	8.5	*	*	*	10.8	10.6	11.2	12.3
Not smoking	7.2	6.7	6.8	6.6	6.6	6.7	6.6	5.9	5.2	5.8	6.8	6.6	6.1	5.6	6.1

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 33. Infant mortality rates by selected characteristics among blacks, 3-year moving averages: Lake County, Indiana, 1990-2006 linked files

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Total	15.3	16.3	16.2	17.3	17.2	16.2	16.3	15.5	15.7	14.0	14.1	13.0	13.7	14.6	15.8
Sex															
Male	17.9	17.8	17.9	19.8	18.3	16.1	13.7	15.1	16.9	17.2	15.7	14.9	15.3	16.4	16.2
Female	12.6	14.6	14.5	14.7	16.1	16.2	18.6	15.5	14.1	10.5	11.9	10.5	11.7	12.8	15.5
Plurality															
Single births	14.2	15.3	15.3	16.1	15.2	14.7	14.8	14.9	15.5	13.8	12.6	10.4	10.7	12.2	14.2
Multiple births	*	*	*	*	*	*	*	*	*	*	*	81.3	95.7	*	*
Birth weight (grams)															
<2,500	79.6	88.2	88.2	90.7	75.1	67.6	75.2	78.1	71.9	58.6	64.5	70.7	79.1	81.3	83.2
<1,500	248.8	299.0	329.9	350.0	296.1	263.2	293.3	297.0	253.7	199.1	218.9	253.8	278.4	282.4	302.9
1,500-2,499	32.1	28.9	*	*	*	*	*	*	*	*	*	*	*	*	*
>=2,500	5.4	5.2	5.1	5.2	6.6	6.4	6.5	5.6	6.7	6.2	5.8	4.0	*	*	3.5
Gestational age (weeks)															
<37	53.6	64.8	64.9	69.4	62.0	55.8	58.4	57.9	51.3	43.7	47.1	49.3	53.2	52.1	56.0
<32	164.2	196.5	214.9	238.8	213.3	192.3	205.5	215.9	186.4	156.9	158.9	183.1	204.9	210.9	216.6
32-36	*	20.0	*	*	*	*	*	*	*	*	*	*	*	*	*
>=37	6.0	5.2	5.0	5.2	6.5	6.8	6.7	6.0	7.8	7.1	6.3	4.0	3.8	4.9	5.5
Age of mother (years)															
<20	13.6	13.7	14.4	16.4	18.0	14.9	11.4	*	*	*	16.2	*	*	*	*
<18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18-19	*	*	*	18.9	19.2	*	*	*	*	*	*	*	*	*	*
>=20	16.0	17.2	17.0	17.7	16.9	16.7	18.0	17.5	17.5	14.3	13.6	12.8	14.2	15.7	16.9
20-24	14.2	13.8	16.5	19.0	19.0	14.6	16.9	15.2	17.5	11.6	13.3	12.4	14.0	13.5	14.6
25-29	20.7	21.8	18.2	16.8	*	15.6	15.9	15.6	12.8	12.5	*	12.5	15.3	18.8	18.5
30-34	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
>=35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Age / Education (years)															
<20 / <appropriate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<20 / appropriate	13.2	12.9	14.5	16.8	18.8	16.2	*	*	*	*	17.0	*	*	*	*
>=20 / <12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
>=20 / 12	13.8	15.9	14.2	17.4	15.1	14.9	15.1	17.3	19.6	17.0	19.1	15.4	14.8	13.3	17.8
>=20 / >12	18.0	19.8	21.1	19.0	17.6	17.7	18.6	17.5	14.4	11.7	8.6	11.5	14.9	18.2	16.1

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 33. Infant mortality rates by selected characteristics among blacks, 3-year moving averages: Lake County, Indiana, 1990-2006 linked files--Con.

Characteristics	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00	99-01	00-02	01-03	02-04	03-05	04-06
	Rate per 1,000 live births in specified group														
Education (years)															
<12	14.7	13.5	12.5	14.1	17.5	16.8	17.8	14.4	16.0	14.7	15.2	12.6	13.2	15.7	15.7
0-8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9-11	12.8	12.7	12.8	15.1	18.2	17.3	18.3	15.2	16.9	15.5	16.0	*	*	14.5	15.0
=12	13.9	16.0	15.2	18.1	16.9	15.0	13.8	14.9	16.8	15.5	17.9	14.5	13.2	11.5	16.1
>12	17.8	19.3	21.6	19.6	17.7	17.3	18.3	17.3	14.3	12.1	9.5	11.9	14.7	17.5	15.5
13-15	16.7	17.3	22.3	19.5	19.4	17.1	18.0	15.8	14.9	13.1	11.5	12.0	15.0	16.8	16.6
>=16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Live-birth order															
First	12.8	14.2	16.0	17.8	15.9	13.3	13.1	13.7	16.6	15.8	14.9	12.7	13.8	17.0	18.7
Second	18.7	22.5	20.9	20.9	19.2	16.5	16.8	17.6	13.2	11.3	10.5	13.0	14.8	11.6	*
Third	*	*	*	*	*	18.6	20.9	20.9	20.9	15.6	15.9	*	*	*	17.4
Fourth+	17.8	*	*	*	18.9	20.1	17.7	*	*	*	16.3	15.4	*	16.2	17.7
Marital status															
Married	16.0	15.2	14.4	*	*	*	16.9	15.1	*	*	*	*	*	17.6	18.3
Unmarried	15.1	16.5	16.7	18.3	18.3	16.8	16.1	15.6	16.6	15.0	15.6	13.3	13.7	13.9	15.2
Trimester prenatal care began															
First trimester	16.6	16.8	16.8	16.6	16.2	14.9	15.9	16.0	15.8	14.8	13.3	11.6	12.7	15.3	16.6
After first trimester	9.7	10.2	11.7	13.4	14.7	13.0	12.1	*	11.3	*	16.1	17.0	15.7	11.4	*
Second trimester	10.0	11.1	13.8	14.8	13.0	*	*	*	12.3	*	16.4	15.7	14.8	*	*
Third trimester	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
No care	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Prenatal care index[1]															
Adequate plus	18.8	18.8	16.4	17.5	16.0	16.0	16.8	18.1	18.2	16.9	16.1	15.4	15.8	18.8	18.9
Adequate	10.4	11.4	13.3	11.8	12.4	*	13.6	*	*	*	*	*	*	*	*
Intermediate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Inadequate	*	*	*	*	15.8	14.0	13.6	*	*	*	*	17.9	*	*	*
No care	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Unknown	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Maternal smoking															
Smoking	15.1	18.4	19.3	24.8	25.4	26.2	23.3	*	24.9	24.4	*	*	*	*	*
Not smoking	15.4	15.8	15.6	16.0	15.8	14.6	15.2	14.5	14.3	12.6	13.1	12.8	13.8	14.9	15.2

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services

Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 34. Infant, neonatal, and postneonatal mortality rates by race and Hispanic origin of mother: Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 linked files

Race and Hispanic origin of mother	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
All races/origins					
Infant	10.8	9.4	9.5	-12.9 **	0.9 **
Neonatal	6.9	6.0	6.2	-13.9 **	4.1 **
Postneonatal	3.9	3.4	3.3	-11.1 **	-4.6 **
White					
Infant	8.3	6.4	7.1	-22.6	10.8 **
Neonatal	5.4	4.3	4.5	-20.9 **	6.8 **
Postneonatal	2.9	2.2	2.6	-25.9 **	18.8 **
White, Non-Hispanic					
Infant	8.1	6.1	7.0	-24.5	14.0 **
Neonatal	5.3	3.9	4.3	-26.9 **	10.6 **
Postneonatal	2.7	2.2	2.6	-19.8 **	20.0 **
Black					
Infant	16.0	15.5	14.6	-3.1 **	-5.5 **
Neonatal	10.2	9.5	9.8	-7.2 **	4.0 **
Postneonatal	5.8	6.0	4.8	4.3 **	-20.4 **
Black, Non-Hispanic					
Infant	16.0	15.6	14.8	-2.7 **	-5.3 **
Neonatal	10.2	9.5	9.9	-6.9 **	4.2 **
Postneonatal	5.8	6.1	4.8	4.7 **	-20.3 **
Hispanic					
Infant	9.4	7.4	7.6	-21.8 **	2.8 **
Neonatal	5.6	5.3	5.1	-5.6 **	-4.5 **
Postneonatal	*	*	*	---	---

[1]The total number of infant deaths and live births used in calculating the mortality rates are derived by summation of the respective yearly numbers presented in table C-1 of the Appendix C.

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

**Not significant at p<0.05.

---Not applicable

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 35. Infant mortality rates by selected characteristics among all races: Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 linked files

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Total	10.8	9.4	9.5	-12.9 **	0.9 **
Sex					
Male	12.8	10.3	10.6	-19.7	3.0 **
Female	8.6	8.4	8.1	-2.4 **	-3.4 **
Plurality					
Single births	10.0	9.0	8.1	-10.1 **	-9.6 **
Multiple births	38.9	21.5	44.4	-44.8 **	107.0 **
Birthweight					
Less than 2,500 grams	87.2	60.1	65.0	-31.1	8.2 **
Less than 1,500 grams	318.8	247.6	262.1	-22.3	5.8 **
1,500-2,499 grams	30.2	13.3	18.3	-56.1	38.1 **
2,500 grams or more	3.8	3.8	3.3	-0.1 **	-12.7 **
Gestational age					
Less than 37 weeks	55.1	44.3	41.3	-19.4	-6.9 **
Less than 32 weeks	205.2	187.0	184.4	-8.9 **	-1.4 **
32-36 weeks	16.1	7.5	10.5	-53.1	39.5 **
37 weeks or more	4.1	4.0	3.5	-2.6 **	-11.2 **
Age of mother					
Under 20 years	13.0	11.2	11.0	-14.3 **	-1.9 **
Under 18 years	13.8	11.4	*	-17.4 **	--- **
18-19 years	12.5	11.0	10.1	-11.7 **	-8.6 **
20 years and over	10.3	9.0	9.3	-12.8 **	2.9 **
20-24 years	11.6	9.1	10.5	-20.9 **	14.5 **
25-29 years	9.9	8.7	9.8	-12.0 **	13.4 **
30-34 years	8.4	8.8	6.3	4.9 **	-28.3 **
35 years and over	12.5	10.0	10.4	-20.2 **	4.3 **
Age/Education					
<20, less than appropriate	*	*	*	---	---
<20, appropriate	12.5	11.9	9.5	-5.2 **	-19.9 **
20+, <12 years of education	13.3	11.1	10.9	-17.0 **	-1.6 **
20+, 12 years of education	10.2	10.7	11.4	4.9 **	6.4 **
20+, 13+ years of education	9.6	7.1	7.4	-26.2	4.9 **

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 35. Infant mortality rates by selected characteristics among all races: Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 linked files--Con.

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Educational attainment					
Less than 12 years	12.8	11.5	11.8	-10.4 **	3.1 **
0-8 years	26.7	*	*	---	---
9-11 years	10.9	12.4	12.1	13.6 **	-2.8 **
12 years	10.6	10.5	10.8	-0.6 **	2.6 **
More than 12 years	9.7	7.2	7.4	-25.5	2.4 **
13-15 years	9.5	7.4	8.7	-22.3 **	18.4 **
16 years and over	10.1	7.0	5.4	-31.0 **	-22.7 **
Live-birth order					
First	9.0	8.9	9.7	-0.3 **	8.1 **
Second	12.4	8.5	7.4	-31.1 **	-12.6 **
Third	10.7	10.4	9.8	-2.7 **	-5.8 **
Fourth+	12.6	10.6	12.3	-15.7 **	15.9 **
Marital status					
Married	8.0	6.1	6.6	-23.3	8.5 **
Unmarried	14.5	13.0	12.3	-10.2 **	-5.5 **
Trimester prenatal care began					
First trimester	10.0	8.5	8.2	-14.4 **	-3.8 **
After first trimester	9.3	7.9	10.5	-15.1 **	32.8 **
Second trimester	9.9	7.3	10.4	-25.9 **	43.1 **
Third trimester	*	*	*	---	---
No care	43.5	39.3	40.8	-9.7 **	3.9 **
					**
Prenatal care index1					
Adequate plus	16.8	11.1	11.6	-34.1	4.9 **
Adequate	5.6	4.9	4.2	-12.2 **	-14.3 **
Intermediate	9.3	7.0	6.6	-25.0 **	-5.6 **
Inadequate	10.2	8.3	11.1	-18.0 **	33.2 **
No care	43.5	39.3	40.8	-9.7 **	3.9 **
Unknown	38.6	22.0	21.5	-43.0 **	-2.2 **
Maternal smoking					
Smoking	12.7	11.9	13.4	-6.6 **	13.0 **
Not smoking	10.1	8.9	8.8	-11.7	-0.5 **

[1]The total number of infant deaths and live births used in calculating the mortality rates are derived by summation of the respective yearly numbers presented in table C-2 of the Appendix C.

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

**Not significant at p<0.05.

---Not applicable.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 36. Infant mortality rates by selected characteristics among whites: Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 linked files

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Total	8.3	6.4	7.1	-22.6	10.8 **
Sex					
Male	10.1	7.5	8.3	-26.1 **	11.3 **
Female	6.3	5.3	5.8	-16.1 **	8.2 **
Plurality					
Single births	7.8	6.3	6.3	-19.4	0.4 **
Multiple births	*	*	29.2	---	---
Birthweight					
Less than 2,500 grams	88.1	52.8	52.3	-40.0	-1.1 **
Less than 1,500 grams	347.3	247.3	236.9	-28.8 **	-4.2 **
1,500-2,499 grams	32.1	*	14.3	---	---
2,500 grams or more	3.2	2.5	3.2	-21.3 **	29.7 **
Gestational age					
Less than 37 weeks	49.9	38.8	33.4	-22.3 **	-14.0 **
Less than 32 weeks	216.3	193.1	165.2	-10.7 **	-14.4 **
32-36 weeks	16.1	*	10.5	---	---
37 weeks or more	3.5	2.4	3.0	-30.9 **	22.7 **
Age of mother					
Under 20 years	11.3	10.8	10.1	-4.1 **	-6.7 **
Under 18 years	*	*	*	---	---
18-19 years	*	11.8	*	---	---
20 years and over	7.9	5.8	6.8	-26.5	17.2 **
20-24 years	9.1	5.0	7.9	-44.9 **	57.7 **
25-29 years	6.7	6.8	7.3	1.3 **	7.5 **
30-34 years	6.8	5.5	4.6	-19.0 **	-16.0 **
35 years and over	11.7	*	7.7	---	---
Age/Education					
<20, less than appropriate	*	*	*	---	---
<20, appropriate	10.0	12.0	*	20.6 **	---
20+, <12 years of education	11.4	*	9.4	---	---
20+, 12 years of education	8.3	7.6	8.1	-8.9 **	6.9 **
20+, 13+ years of education	6.5	4.5	5.3	-31.2 **	18.1 **

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 36. Infant mortality rates by selected characteristics among whites: Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 linked files--Con.

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Educational attainment					
Less than 12 years	11.5	7.4	10.4	-36.1 **	41.0 **
0-8 years	*	*	*	---	---
9-11 years	8.5	8.0	10.8	-6.5 **	35.4 **
12 years	8.5	8.0	7.9	-5.8 **	-1.1 **
More than 12 years	6.4	4.7	5.3	-27.2 **	13.7 **
13-15 years	5.3	3.9	6.3	-26.9 **	60.2 **
16 years and over	8.0	5.8	4.1	-27.9 **	-28.7 **
Live-birth order					
First	6.4	6.7	7.2	6.0 **	6.3 **
Second	9.0	6.0	6.2	-33.2 **	2.8 **
Third	9.5	5.4	6.9	-43.1 **	28.4 **
Fourth+	11.4	*	8.9	--- **	---
Marital status					
Married	6.9	5.1	5.4	-26.1 **	7.2 **
Unmarried	12.3	9.3	10.0	-24.7 **	8.1 **
Trimester prenatal care began					
First trimester	7.5	5.8	6.1	-21.9	3.9 **
After first trimester	7.8	*	7.5	---	---
Second trimester	7.7	*	7.6	---	---
Third trimester	*	*	*	---	---
No care	*	*	*	---	---
Prenatal care index1					
Adequate plus	12.9	8.0	8.8	-38.2 **	10.3 **
Adequate	3.9	3.2	3.5	-17.9 **	10.9 **
Intermediate	*	*	*	---	---
Inadequate	9.3	*	*	---	---
No care	*	*	*	---	---
Unknown	40.3	17.7	19.4	-56.2	9.6 **
Maternal smoking					
Smoking	10.9	8.0	12.0	-26.8 **	50.9
Not smoking	7.2	6.1	6.3	-16.1 **	3.2 **

[1]The total number of infant deaths and live births used in calculating the mortality rates are derived by summation of the respective yearly numbers presented in table C-3 of the Appendix C.

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

**Not significant at p<0.05.

---Not applicable.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 37. Infant mortality rates by selected characteristics among blacks: Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 linked files

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Total	16.0	15.5	14.6	-3.1 **	-5.5 **
Sex					
Male	18.4	15.5	15.6	-15.6 **	0.8 **
Female	13.5	15.3	13.4	13.4 **	-12.2 **
Plurality					
Single births	14.7	14.6	12.2	-0.8 **	-16.5 **
Multiple births	57.3	*	76.2	---	---
Birthweight					
Less than 2,500 grams	85.9	67.1	79.7	-21.9 **	18.8 **
Less than 1,500 grams	295.7	246.3	287.5	-16.7 **	16.7 **
1,500-2,499 grams	27.8	*	22.7	---	---
2,500 grams or more	5.3	6.8	3.7	28.4 **	-45.5
Gestational age					
Less than 37 weeks	60.5	50.9	53.1	-15.8 **	4.2 **
Less than 32 weeks	196.0	181.3	204.1	-7.5 **	12.6 **
32-36 weeks	16.4	*	*	---	---
37 weeks or more	5.5	7.5	4.9	36.8 **	-34.9 **
Age of mother					
Under 20 years	14.7	11.3	11.9	-23.1 **	5.6 **
Under 18 years	13.6	*	*	---	---
18-19 years	15.6	*	*	---	---
20 years and over	16.5	16.8	15.3	2.2 **	-9.4 **
20-24 years	15.9	15.3	14.5	-4.0 **	-5.0 **
25-29 years	19.9	14.4	16.2	-27.8 **	12.7 **
30-34 years	13.9	21.9	*	57.3 **	---
35 years and over	*	*	*	---	---
Age/Education					
<20, less than appropriate	*	*	*	---	---
<20, appropriate	14.5	11.8	*	-18.6 **	---
20+, <12 years of education	17.5	22.1	14.2	26.4 **	-35.8 **
20+, 12 years of education	14.5	16.5	17.1	13.7 **	3.9 **
20+, 13+ years of education	18.6	15.6	14.1	-16.2 **	-9.6 **

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table 37. Infant mortality rates by selected characteristics among blacks: Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 linked files--Con.

Characteristics	Rate per 1,000 live births[1]			Percent change	
	1990-1994	1996-2000	2002-2006	1990-1994 to 1996-2000	1996-2000 to 2002-2006
Educational attainment					
Less than 12 years	14.5	16.9	14.4	17.1 **	-15.3 **
0-8 years	*	*	*	---	---
9-11 years	13.8	17.6	13.9	27.6 **	-20.9 **
12 years	14.9	14.8	15.5	-0.7 **	5.2 **
More than 12 years	19.0	15.5	13.8	-18.5 **	-10.7 **
13-15 years	18.1	15.5	14.1	-14.3 **	-9.2 **
16 years and over	*	*	*	--- **	---
Live-birth order					
First	14.8	14.3	15.9	-3.5 **	11.2 **
Second	20.3	14.4	11.1	-29.1 **	-22.6 **
Third	13.6	20.1	15.4	47.6 **	-23.2 **
Fourth+	13.7	15.0	16.4	9.1 **	9.6 **
Marital status					
Married	15.7	13.4	15.3	-14.6 **	14.2 **
Unmarried	16.1	16.0	14.5	-0.2 **	-9.7 **
Trimester prenatal care began					
First trimester	16.8	15.3	13.8	-9.0 **	-9.6 **
After first trimester	10.9	11.7	14.1	7.2 **	21.0 **
Second trimester	12.0	10.4	13.9	-13.7 **	33.8 **
Third trimester	*	*	*	---	---
No care	48.8	*	*	---	---
Prenatal care index1					
Adequate plus	17.8	16.6	16.9	-6.9 **	2.3 **
Adequate	11.8	11.0	*	-7.1 **	---
Intermediate	16.8	*	*	---	---
Inadequate	11.2	11.4	15.9	2.4 **	39.1 **
No care	48.8	*	*	---	---
Unknown	*	33.5	*	---	---
Maternal smoking					
Smoking	17.4	24.1	16.7	38.2 **	-30.6 **
Not smoking	15.7	14.2	14.4	-9.1 **	0.9 **

[1]The total number of infant deaths and live births used in calculating the mortality rates are derived by summation of the respective yearly numbers presented in table C-4 of the Appendix C.

*Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator.

**Not significant at p<0.05.

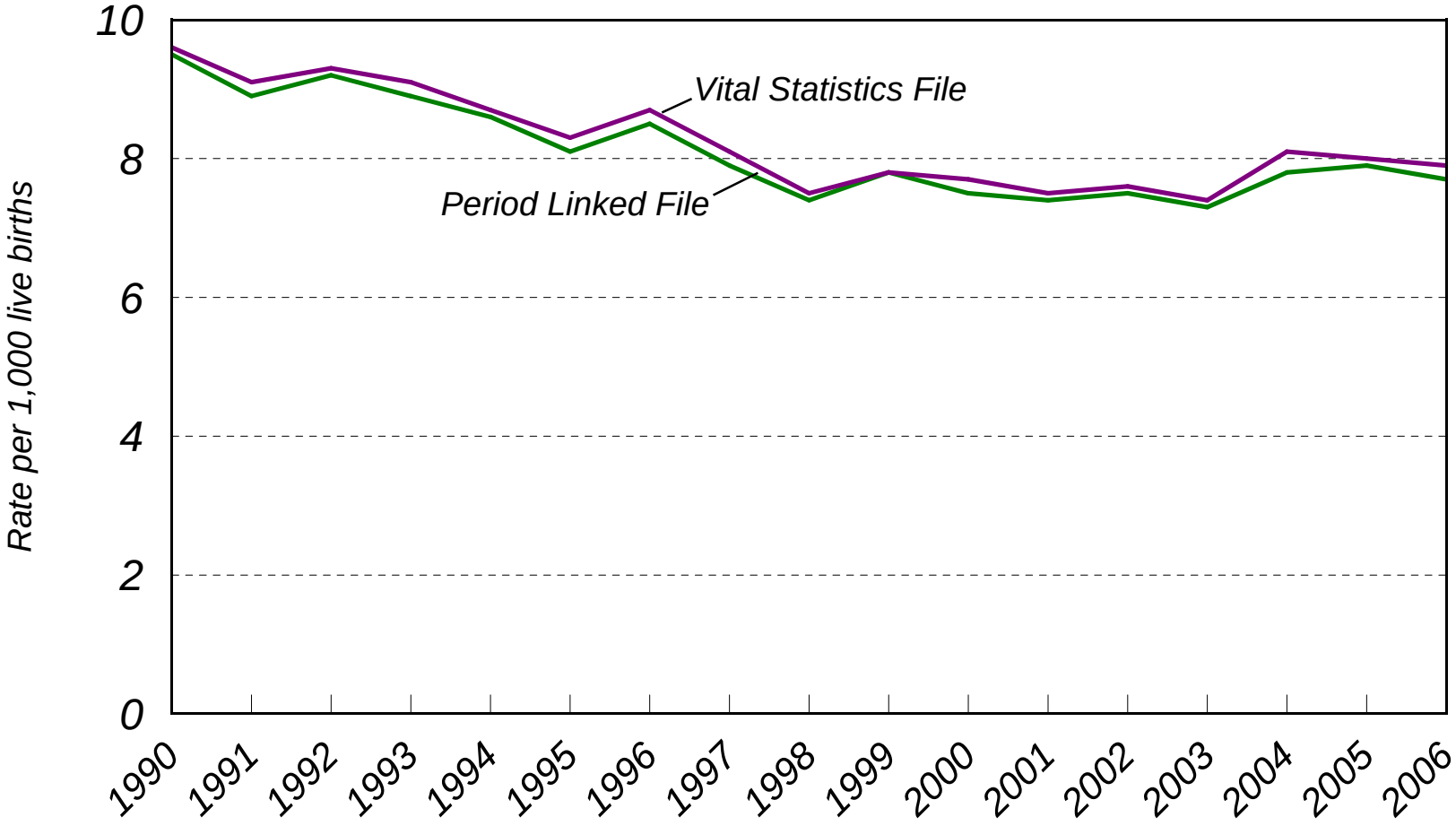
---Not applicable.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Figure I

Infant Mortality Rates in Indiana
Based on Vital Statistics File and Period Linked File

1990-2006

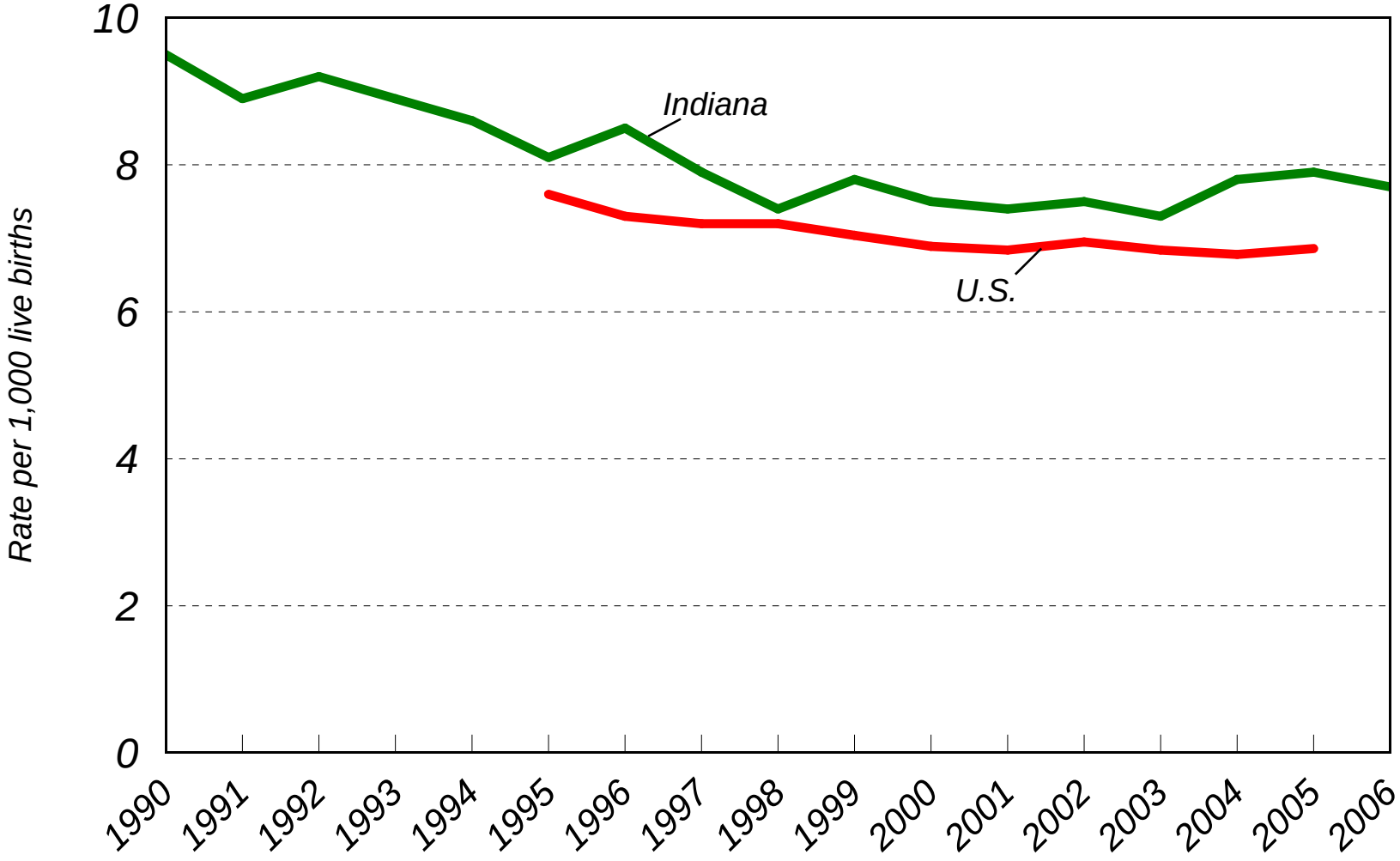


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table II

Figure 1

Infant Mortality Rates in Indiana Compared to U.S.

1990-2006 Linked Files

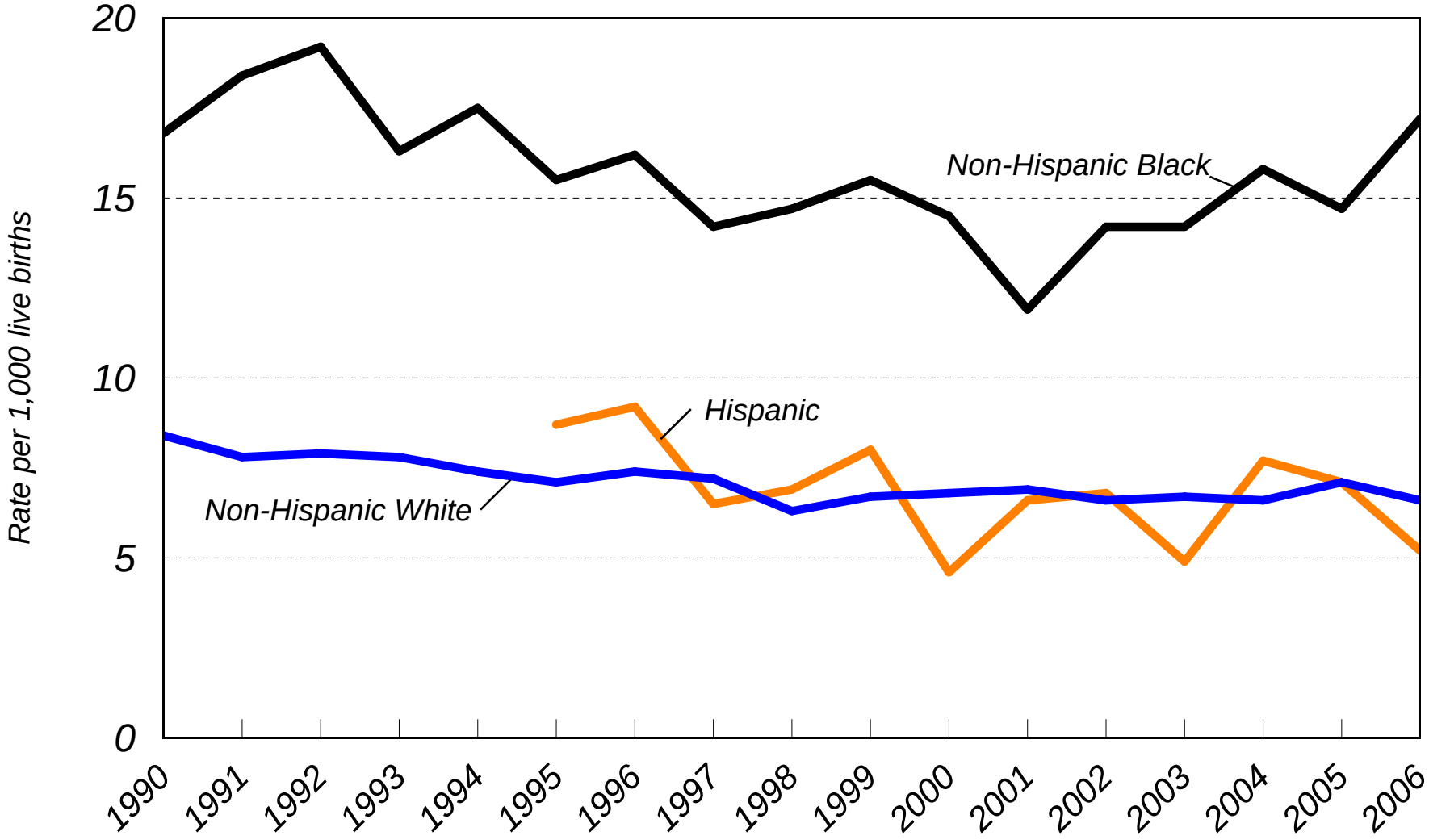


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 1 (Indiana data)

Figure 2

Infant Mortality Rates
By Race and Hispanic Origin of Mother

Indiana, 1990-2006 Linked Files

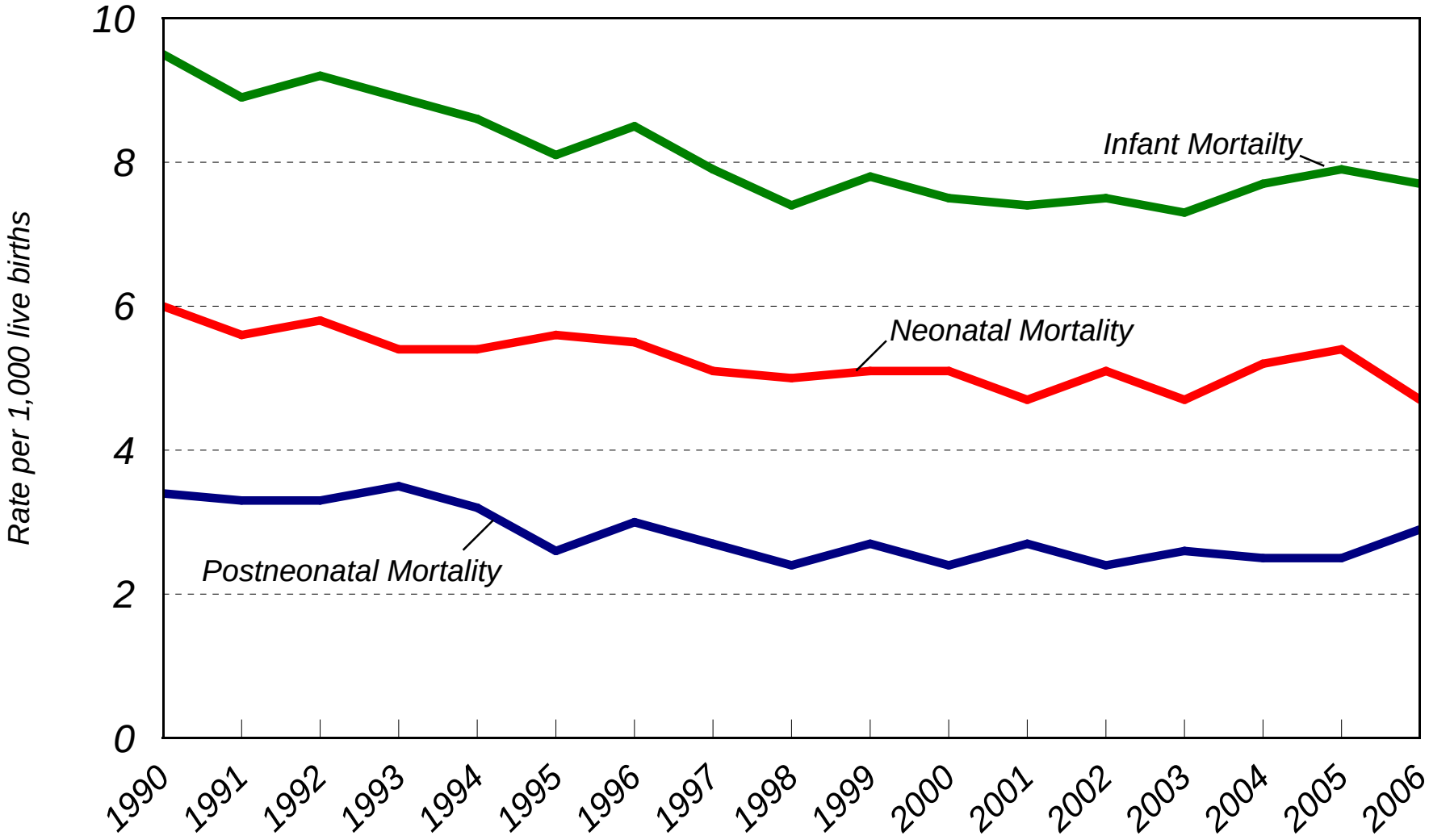


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 1

Figure 3

Infant, Neonatal, and Postneonatal Mortality Rates

Indiana, 1990-2006 Linked Files



Note: Neonatal is less than 28 days, and postneonatal is 28 days to under 1year.

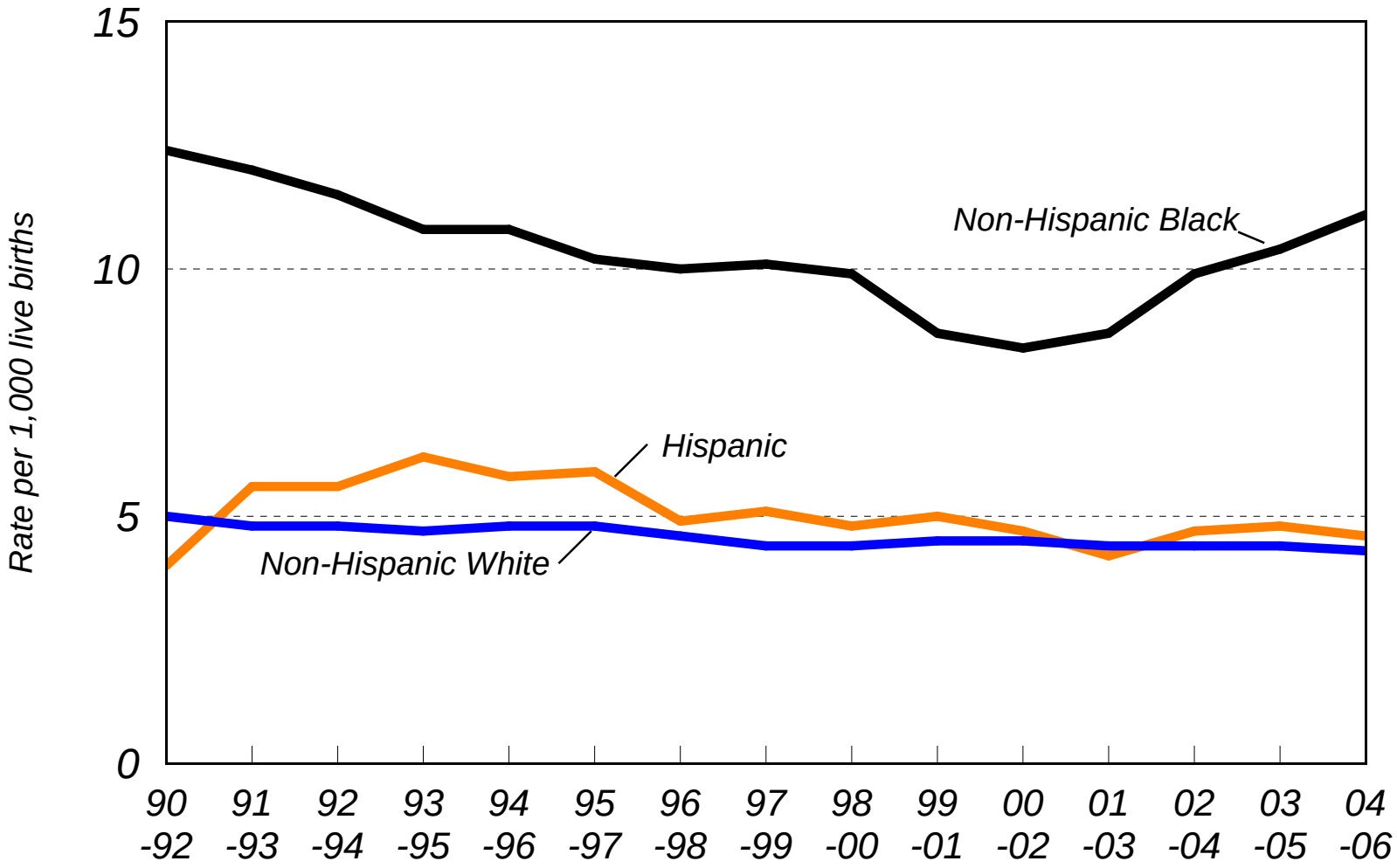
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 1

Figure 4

Neonatal Mortality Rates
By Race and Hispanic Origin of Mother

Three-year Moving Averages

Indiana, 1990-2006 Linked Files



Note: Neonatal is less than 28 days.

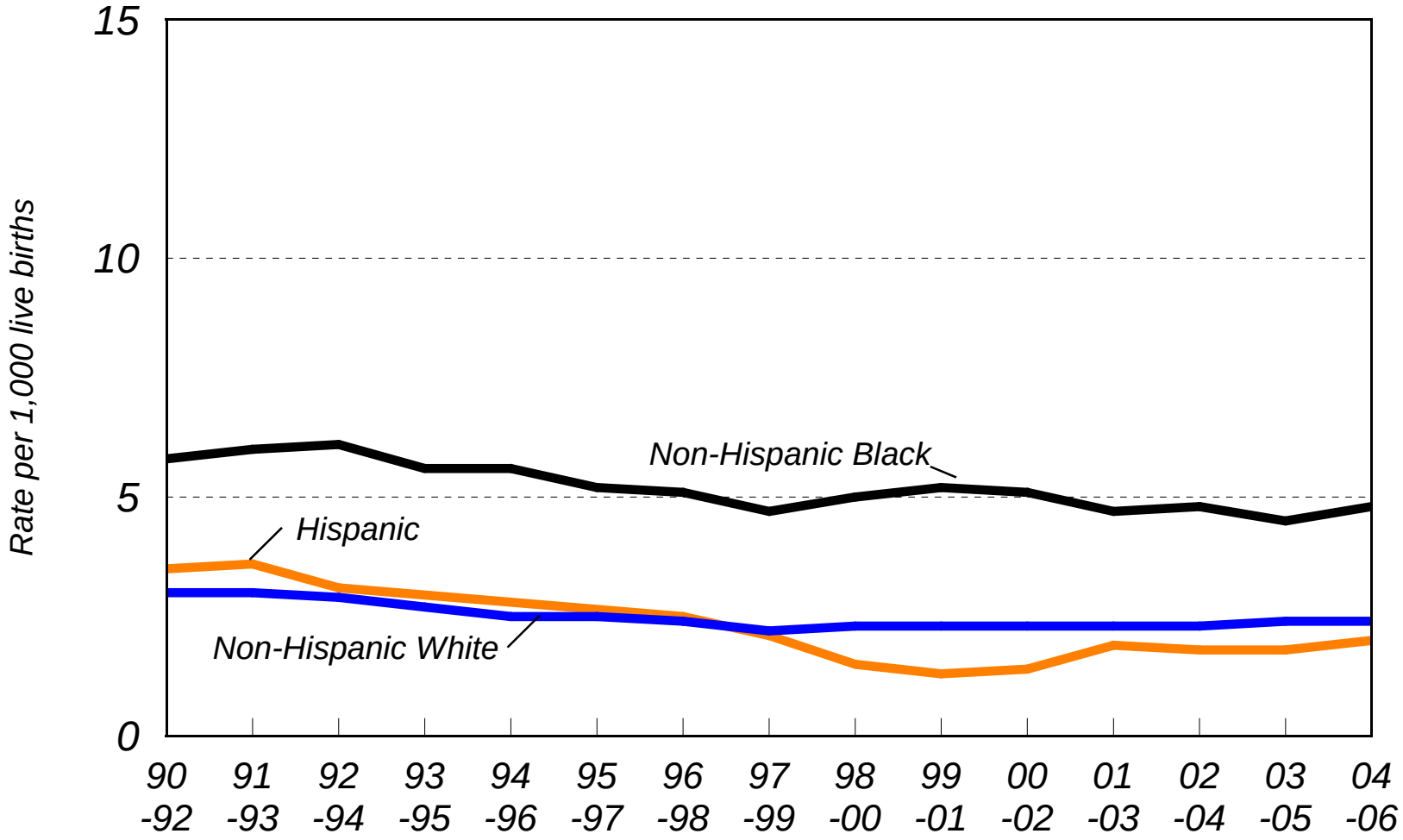
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 8

Figure 5

Postneonatal Mortality Rates
By Race and Hispanic Origin of Mother

Three-year Moving Averages

Indiana, 1990-2006 Linked Files



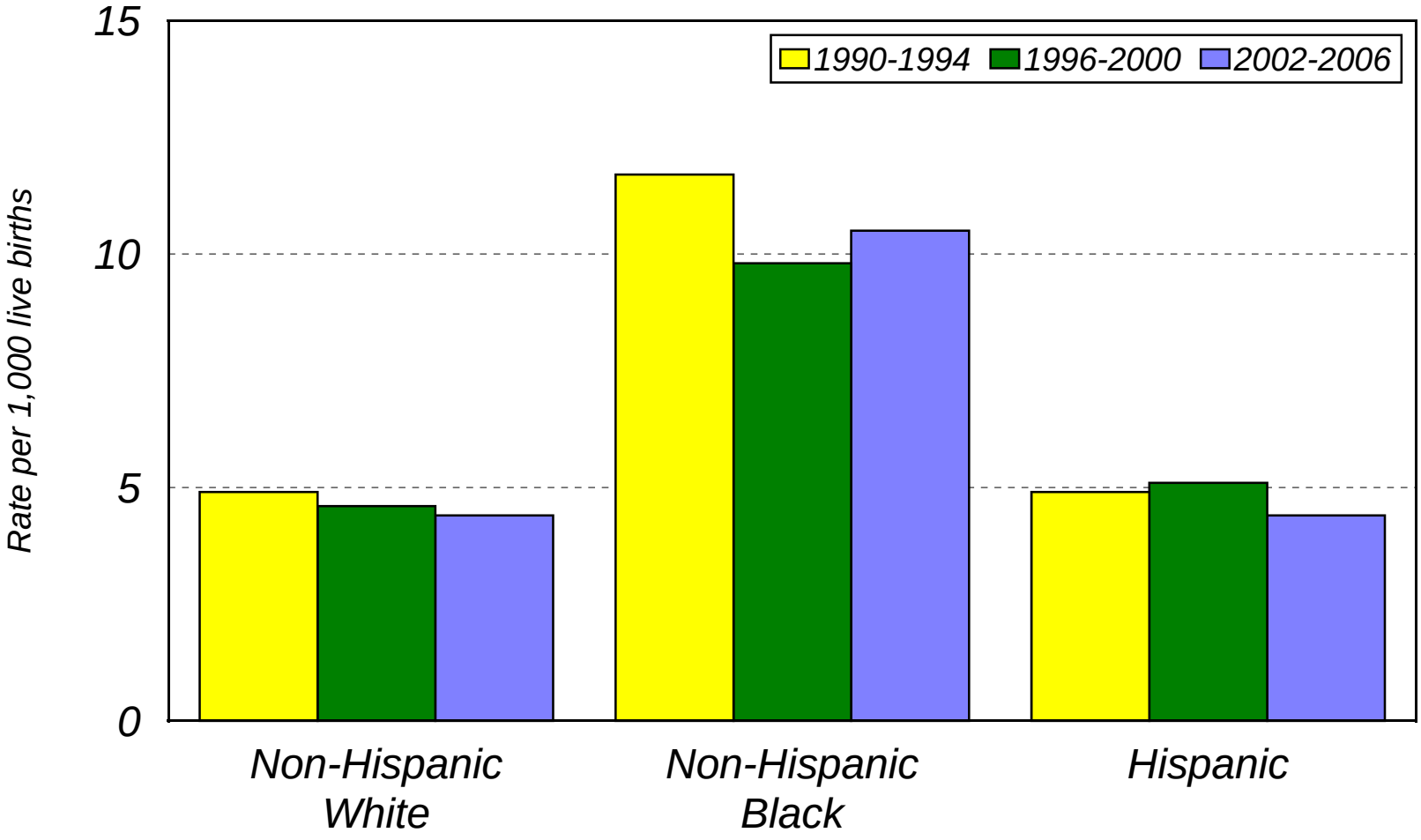
Note: Postneonatal is 28 days to under 1 year.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 8

Figure 6

Neonatal Mortality Rates
By Race and Hispanic Origin of Mother

Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



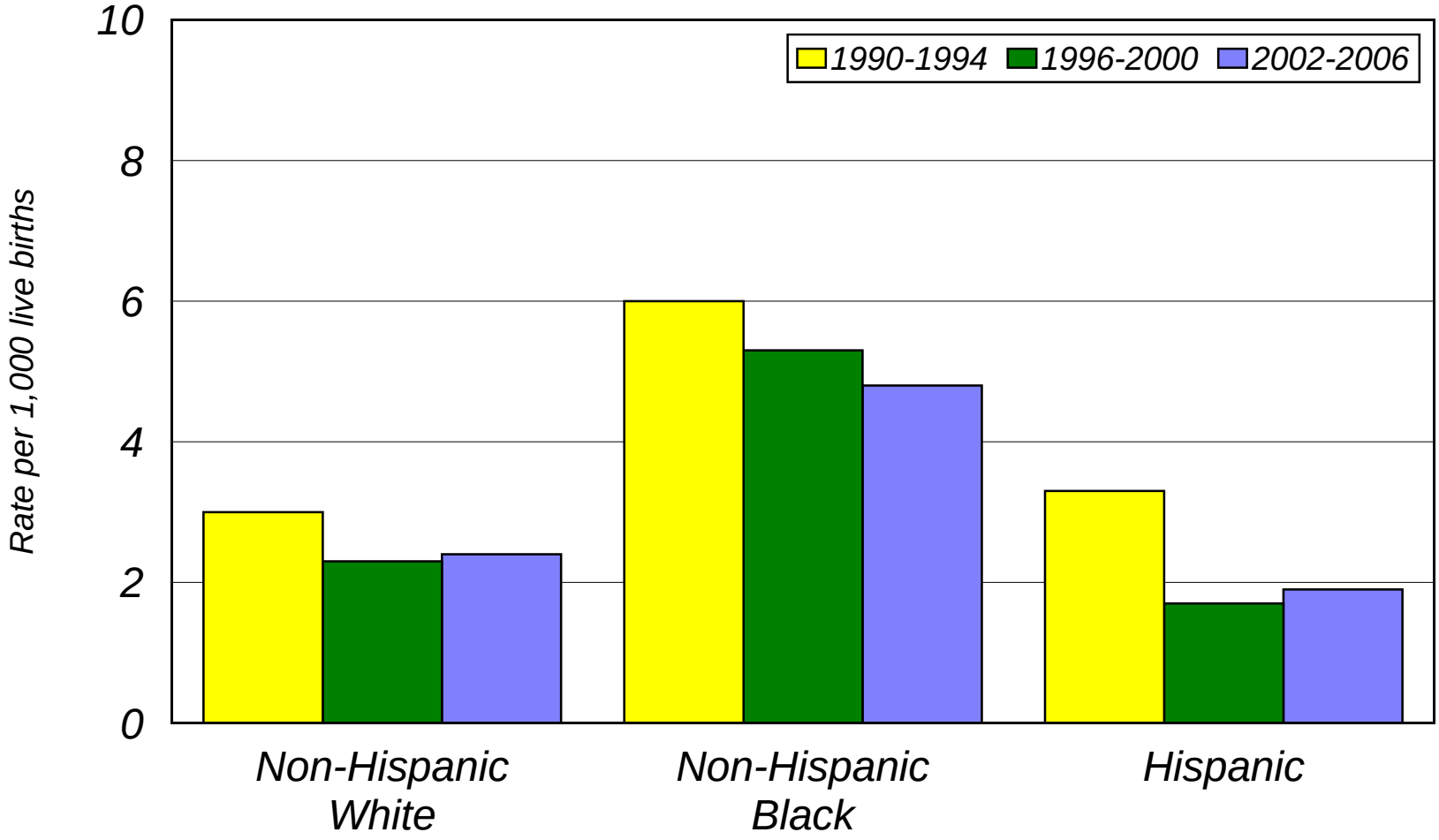
Note: Neonatal is less than 28 days.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 15

Figure 7

Postneonatal Mortality Rates
By Race and Hispanic Origin of Mother

Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



Note: Postneonatal is 28 days to under 1 year.

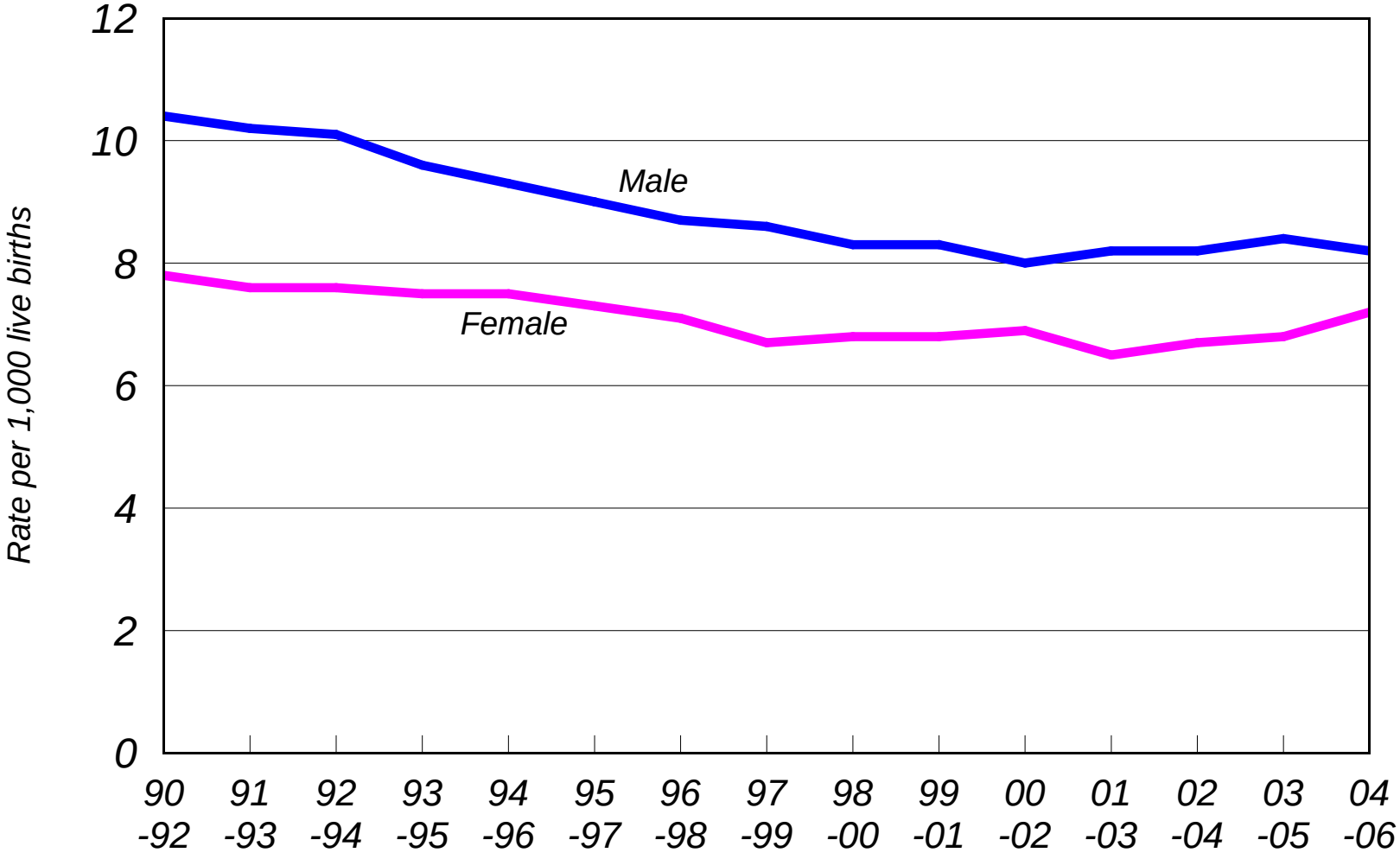
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 15

Figure 8

Infant Mortality Rates by Sex of Infant

Three-year Moving Averages

Indiana, 1990-2006 Linked Files

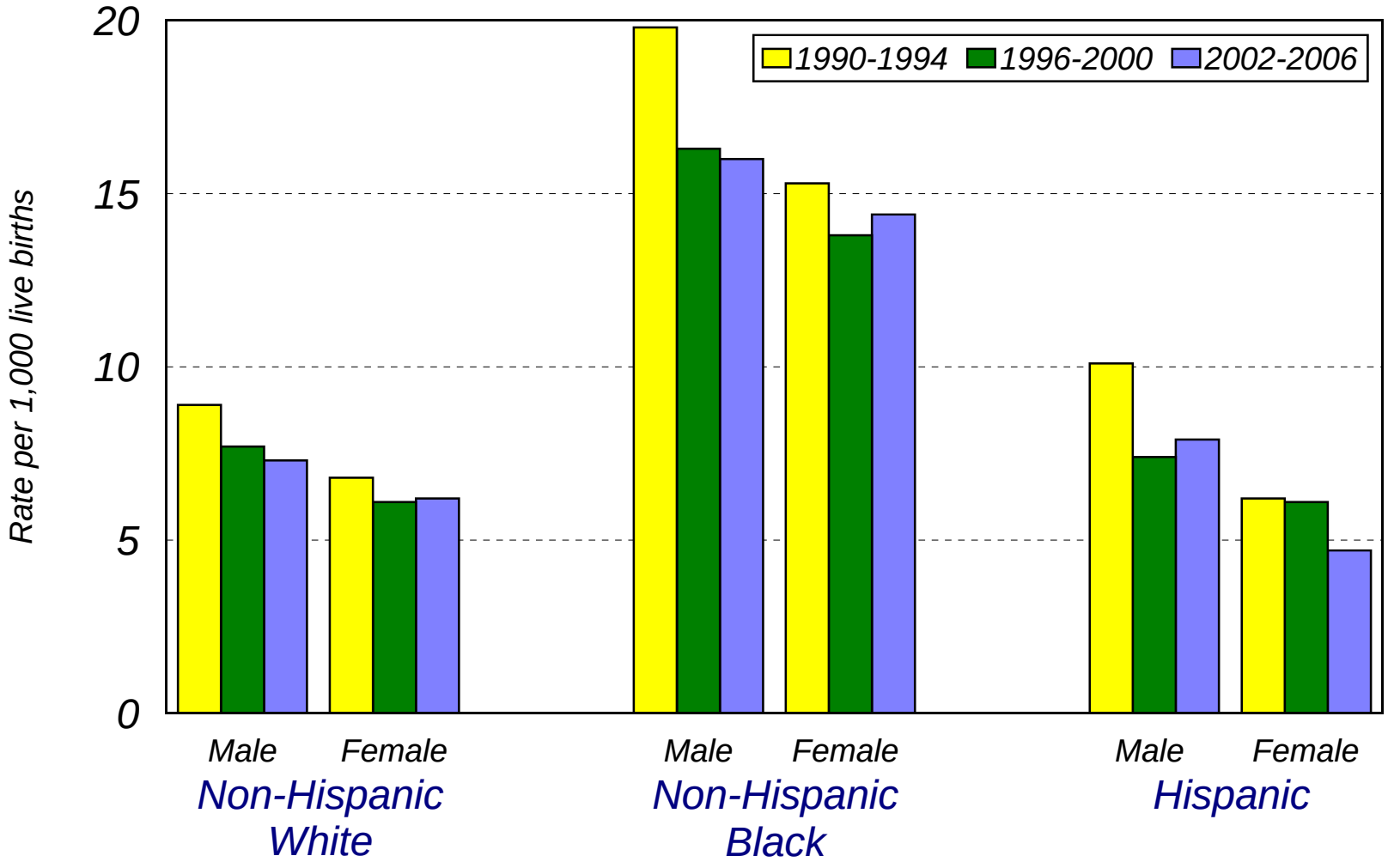


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 9

Figure 9

Infant Mortality Rates by Sex and Race and Hispanic Origin of Mother

Indiana, 1990-1994 and 1996-2000, and 2002-2006 Linked Files



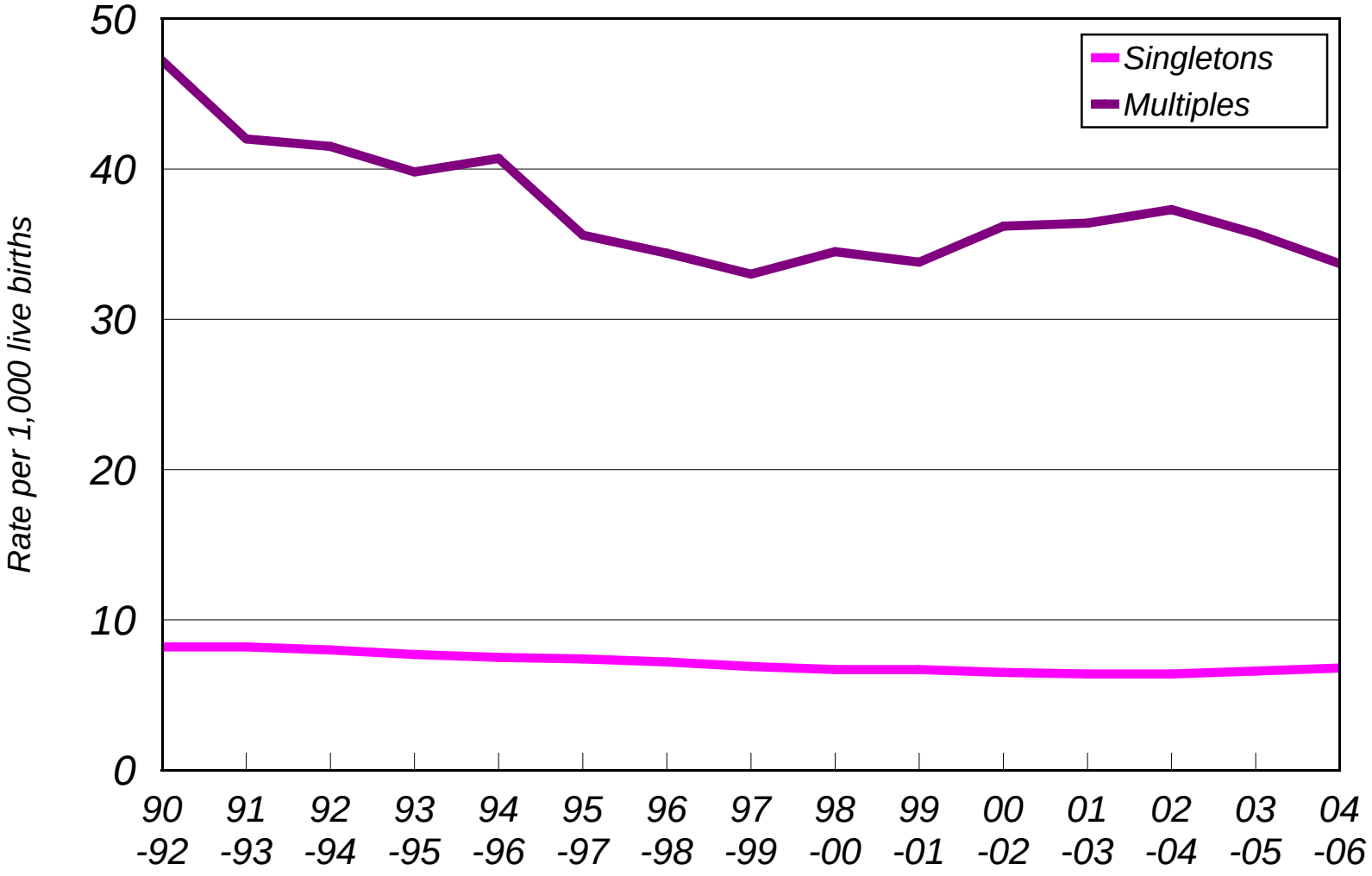
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 19-21

Figure 10

Infant Mortality Rates by Plurality

Three-year Moving Averages

Indiana, 1990-2006 Linked Files



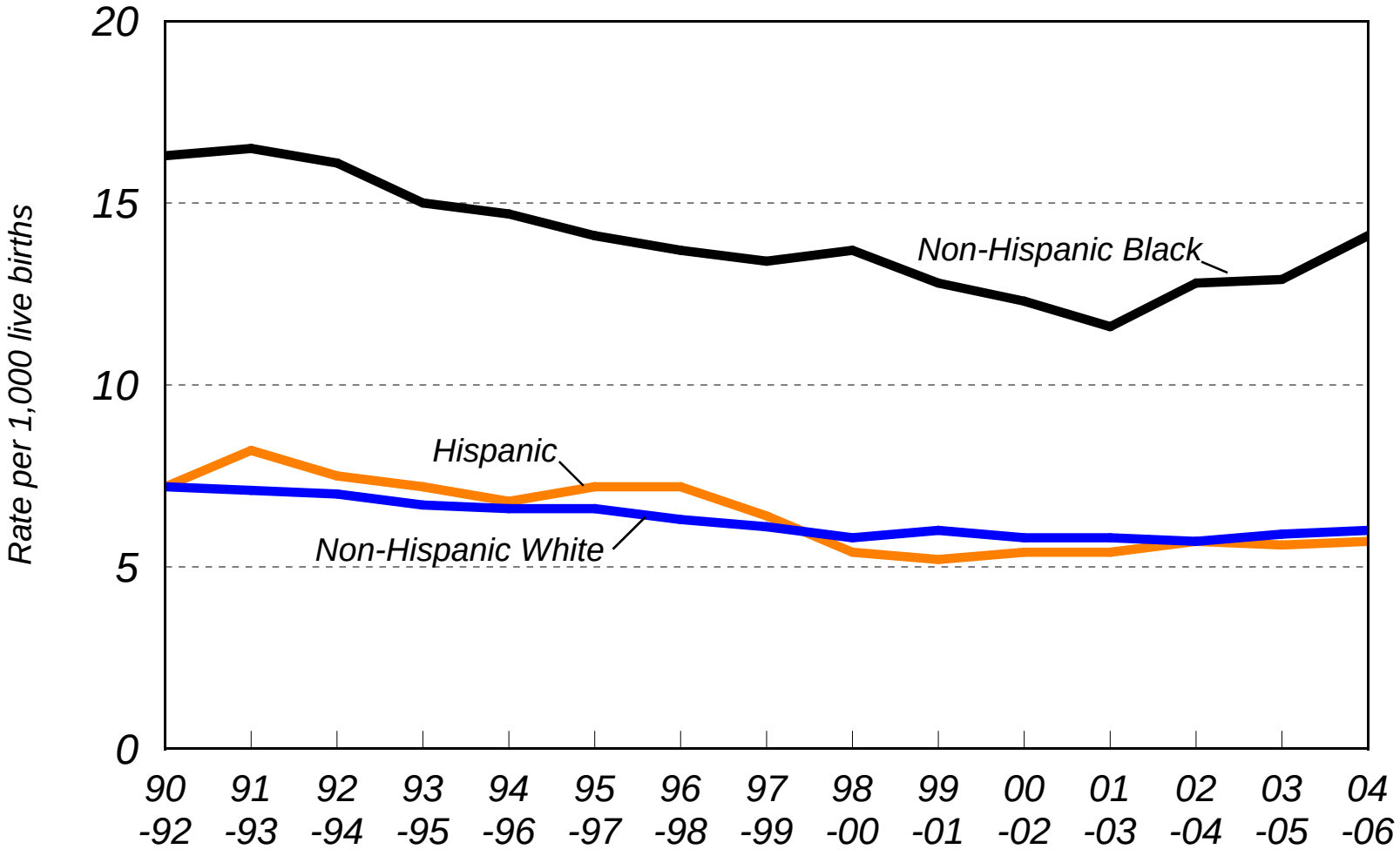
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 9

Figure 11

Infant Mortality Rates for Singleton Births by Race and Hispanic Origin of Mother

Three-year Moving Averages

Indiana, 1990-2006 Period Linked Files

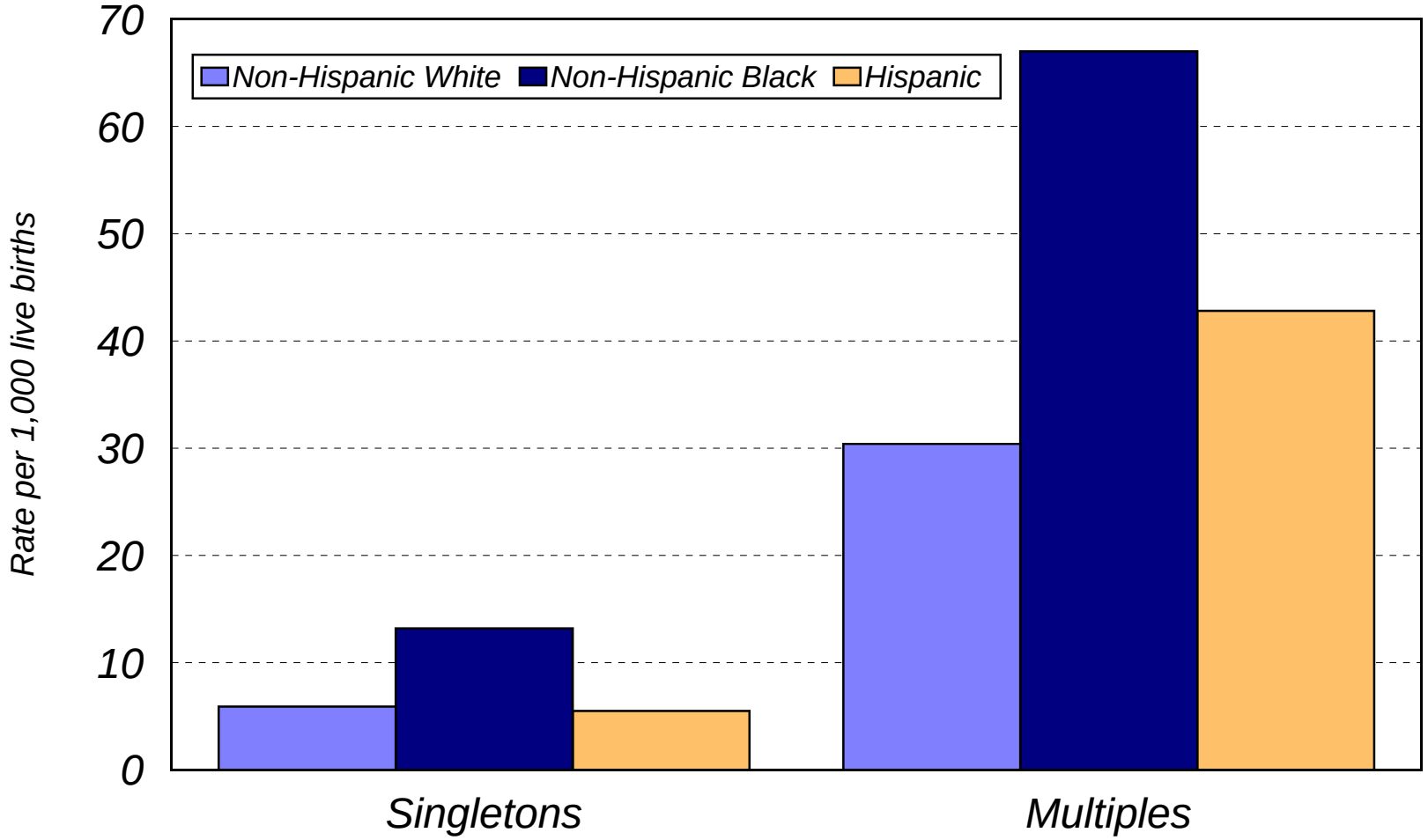


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 12-14

Figure 12

Infant Mortality Rates by Plurality and Race and Hispanic Origin of Mother

Indiana, 2002-2006 Linked Files

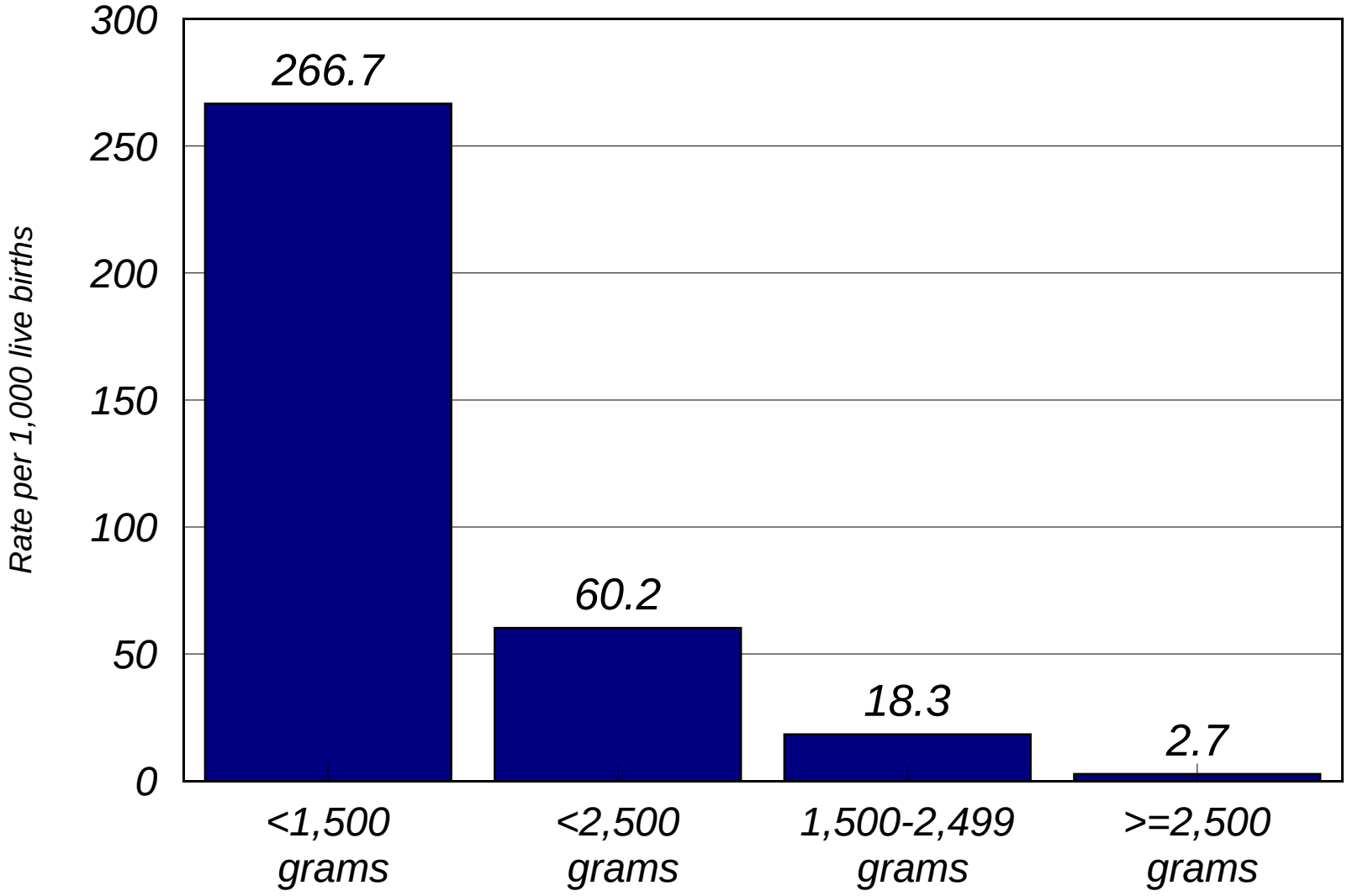


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 19-21

Figure 13

Infant Mortality Rates by Birth Weight

Indiana, 2006 Linked File



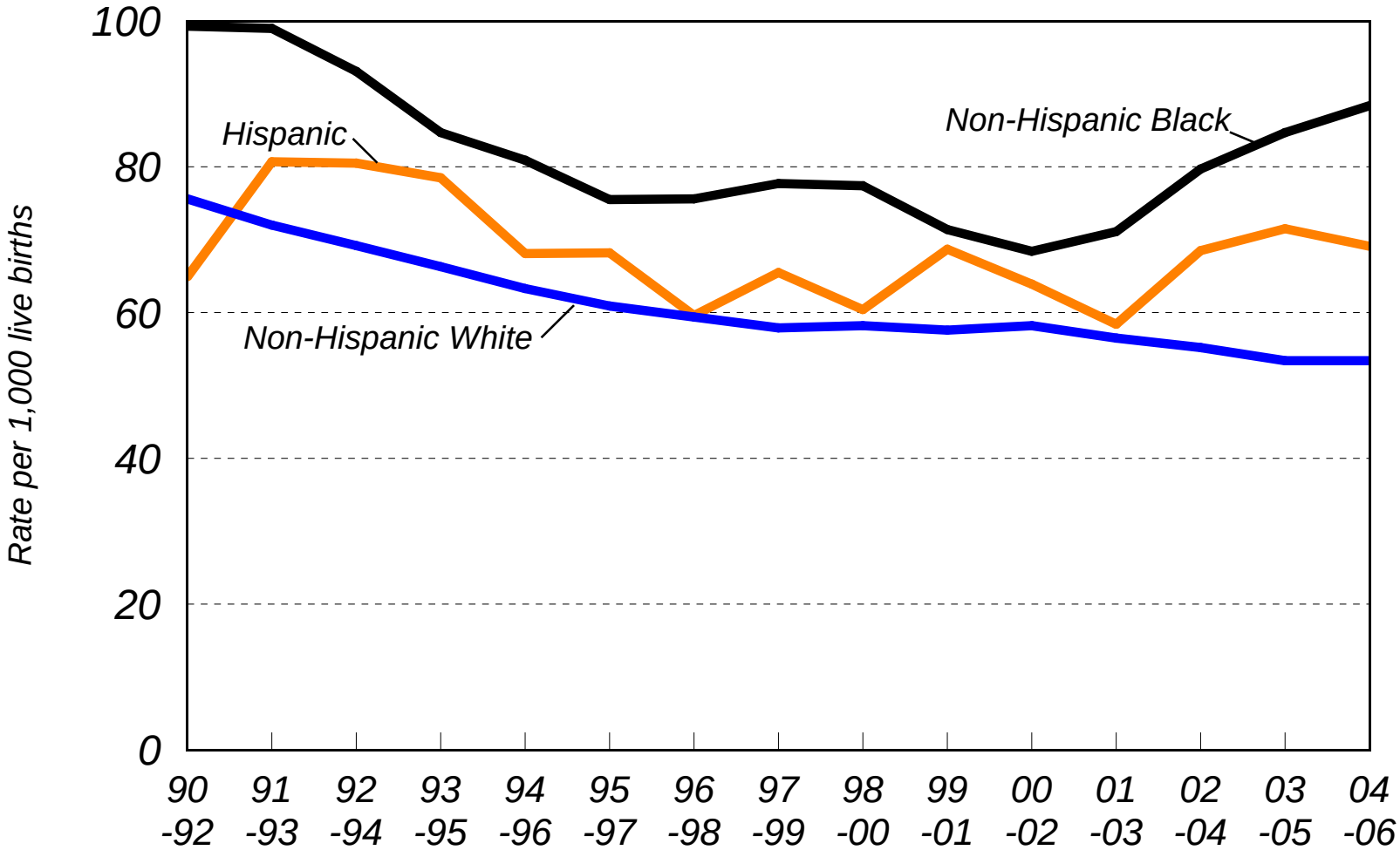
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 2

Figure 14

Infant Mortality Rates of Low Birth Weight Infants By Race and Hispanic Origin of Mother

Three-year Moving Averages

Indiana, 1990-2006 Period Linked Files

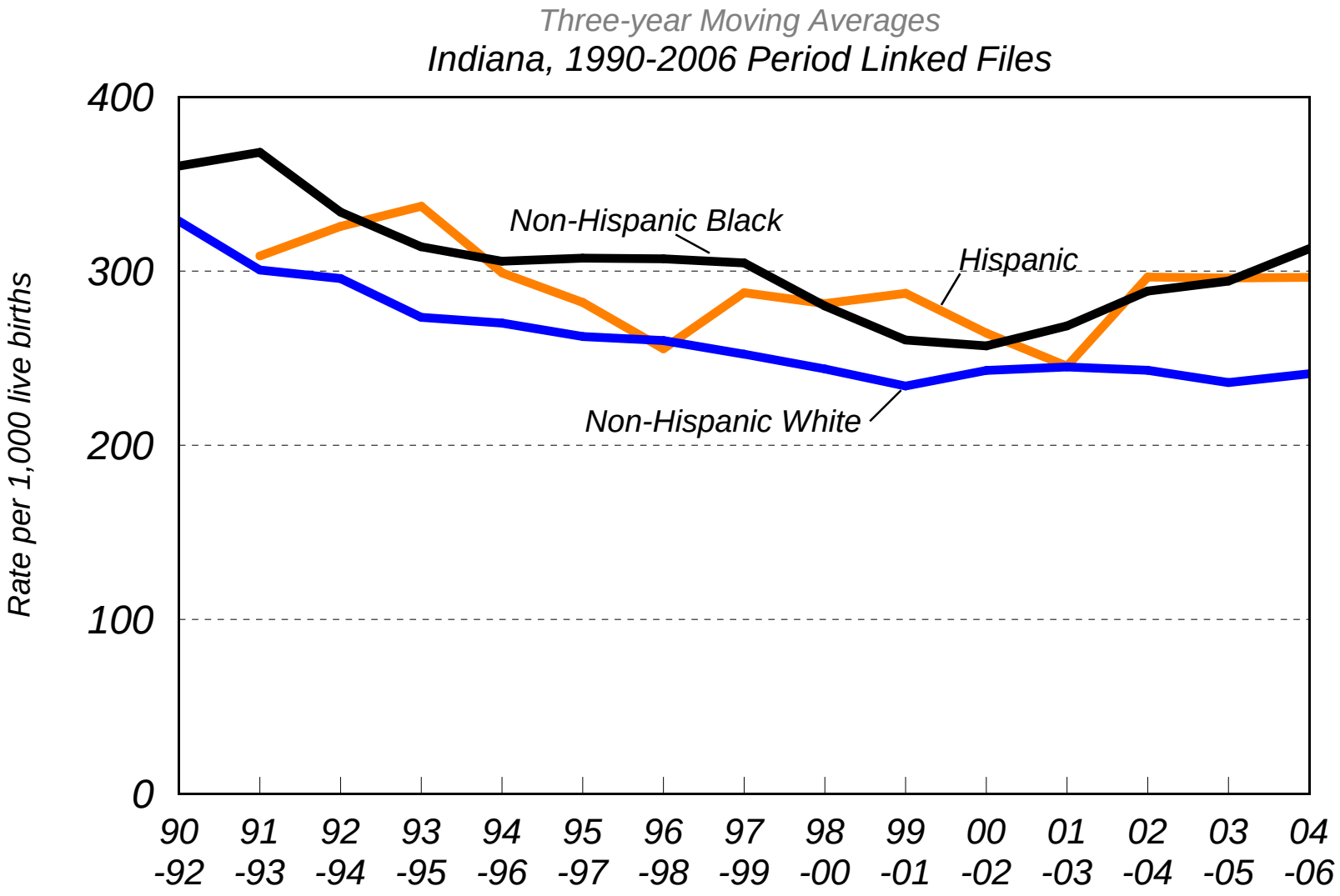


Note: Low Birth Weight is less than 2,500 grams.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 12-14

Figure 15

Infant Mortality Rates of Very Low Birth Weight Infants By Race and Hispanic Origin of Mother



Note: Very Low Birth Weight is less than 1,500 grams.

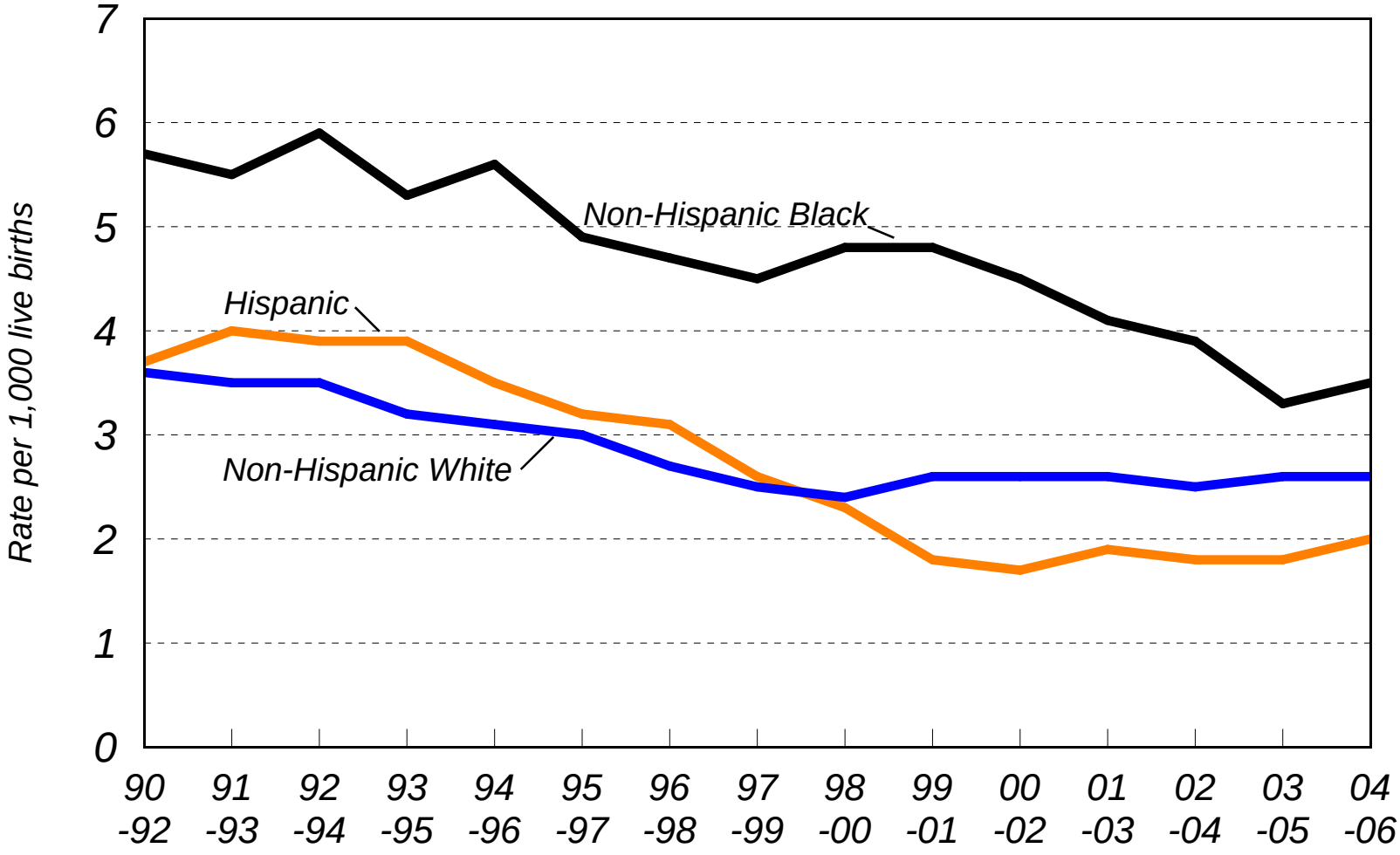
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 12-14

Figure 16

Infant Mortality Rates of Normal Birth Weight Infants By Race and Hispanic Origin of Mother

Three-year Moving Averages

Indiana, 1990-2006 Period Linked Files



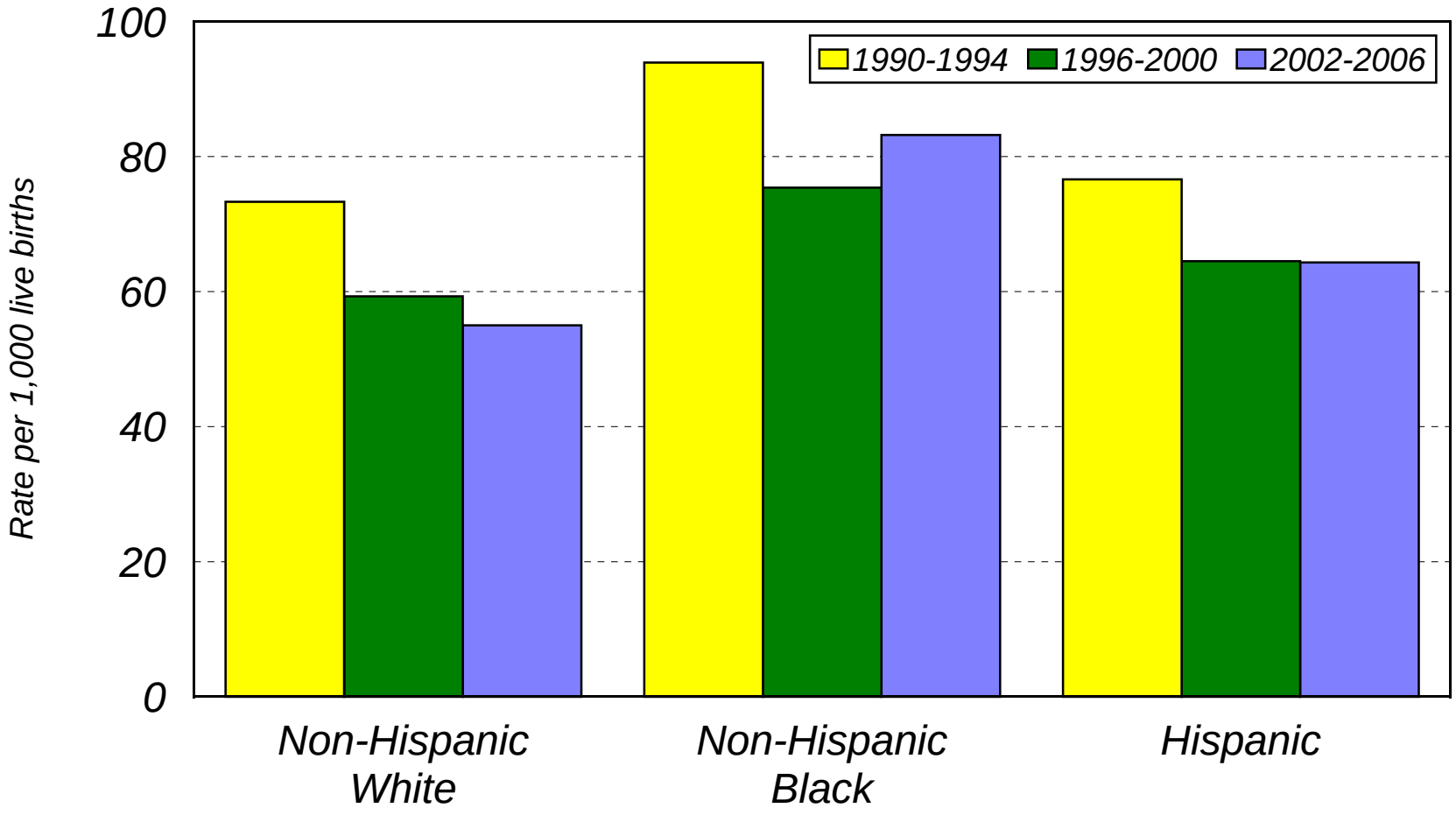
Note: Normal Birth Weight is 2,500 grams or higher.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 12-14

Figure 17

Infant Mortality Rates of Low Birth Weight Infants By Race and Hispanic Origin of Mother

Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



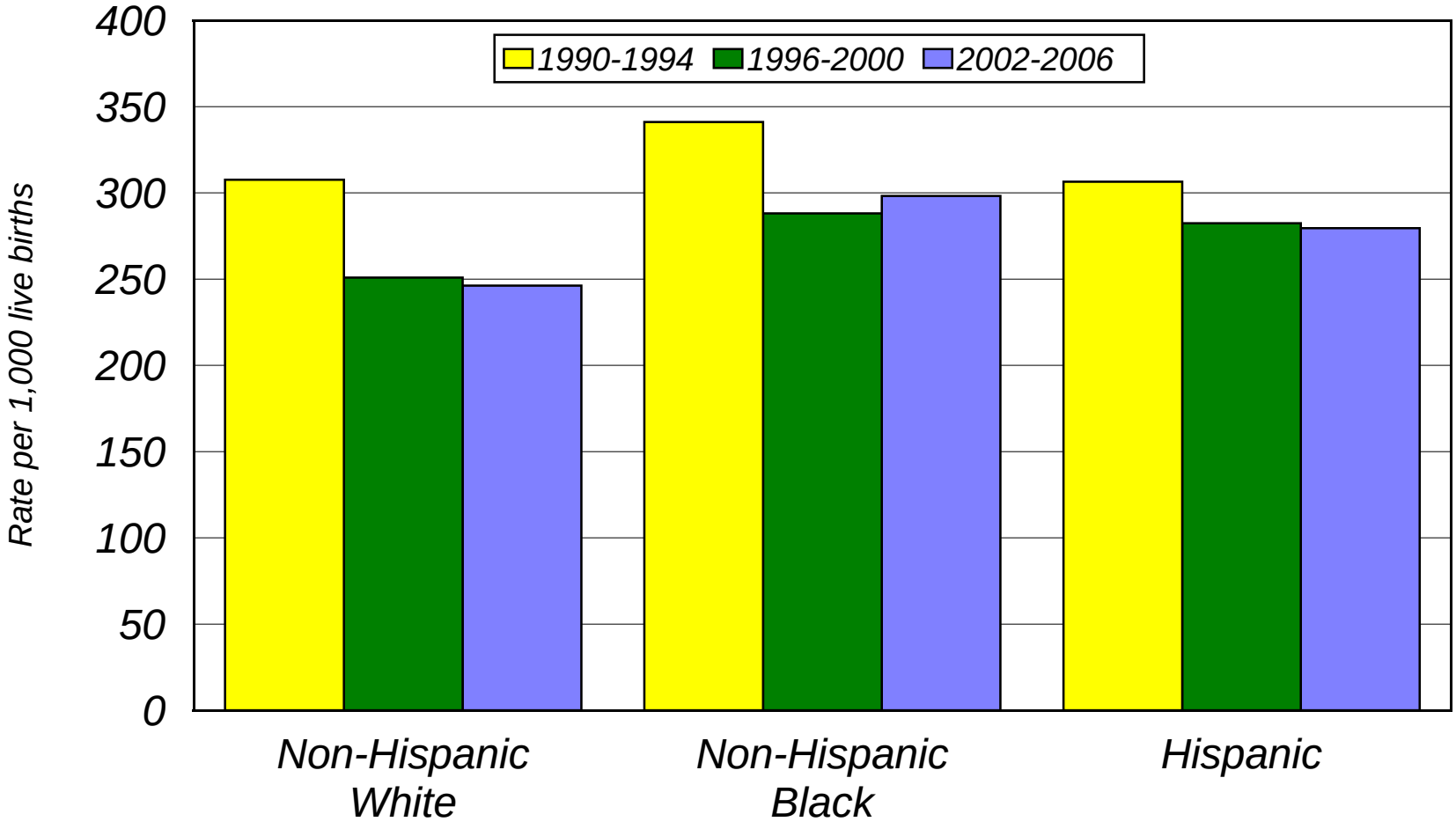
Note: Low Birth Weight is less than 2,500 grams.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 19-21

Figure 18

Infant Mortality Rates of Very Low Birth Weight Infants By Race and Hispanic Origin of Mother

Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



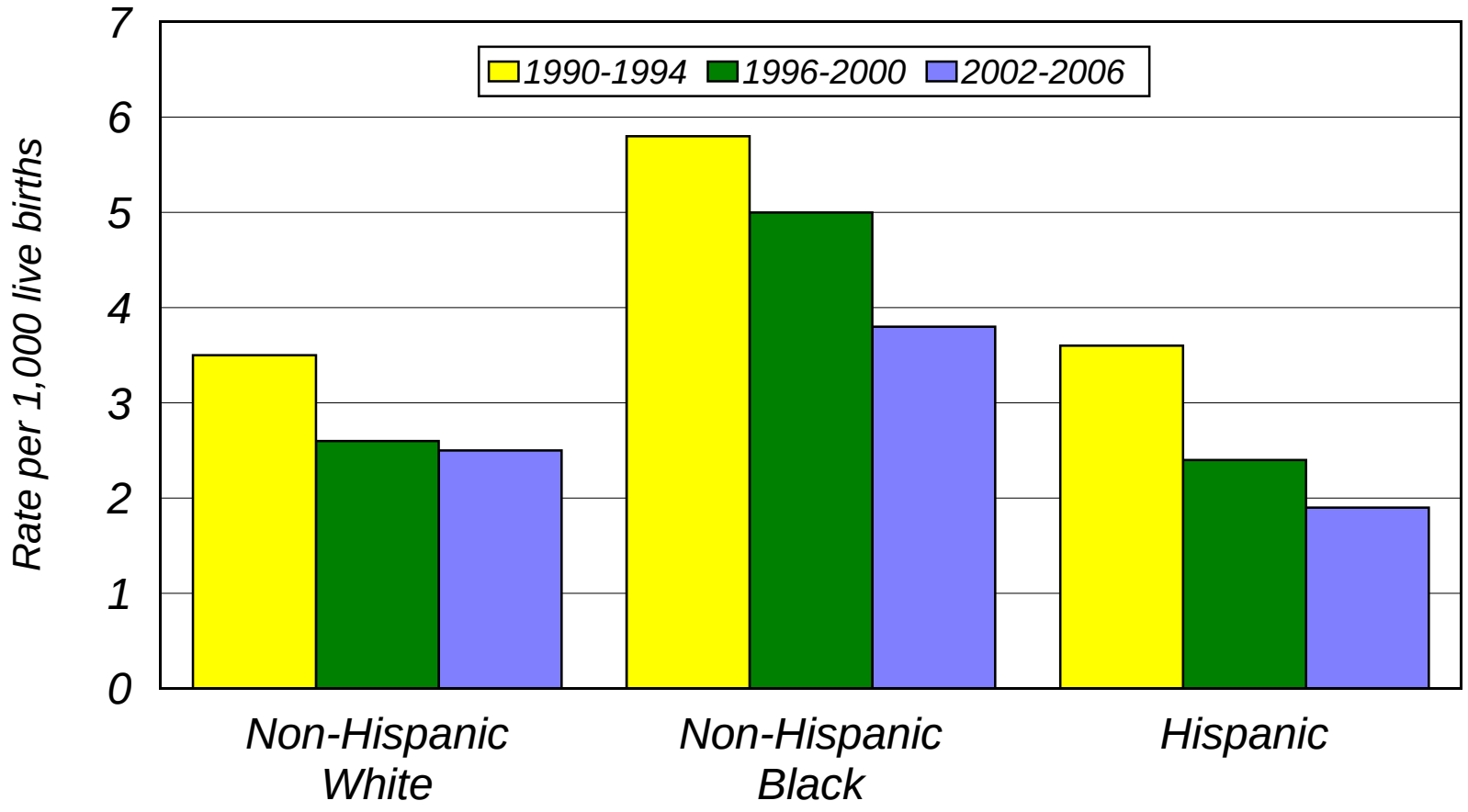
Note: Very Low Birth Weight is less than 1,500 grams.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 19-21

Figure 19

Infant Mortality Rates of Normal Birth Weight Infants by Race and Hispanic Origin of Mother

Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



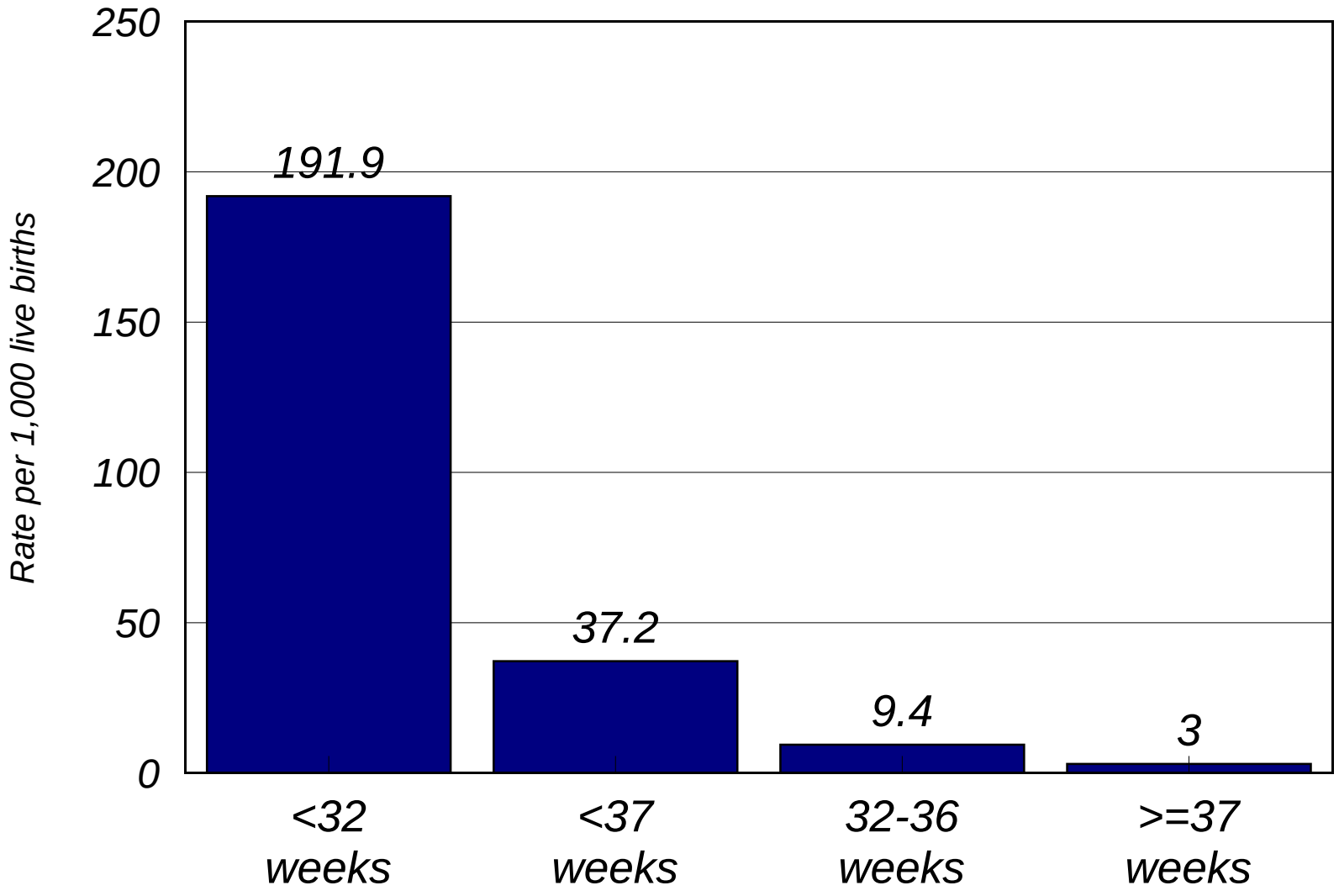
Note: Normal Birth Weight is 2,500 grams or higher.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 19-21

Figure 20

Infant Mortality Rates by Gestational Age

Indiana, 2006 Linked Files



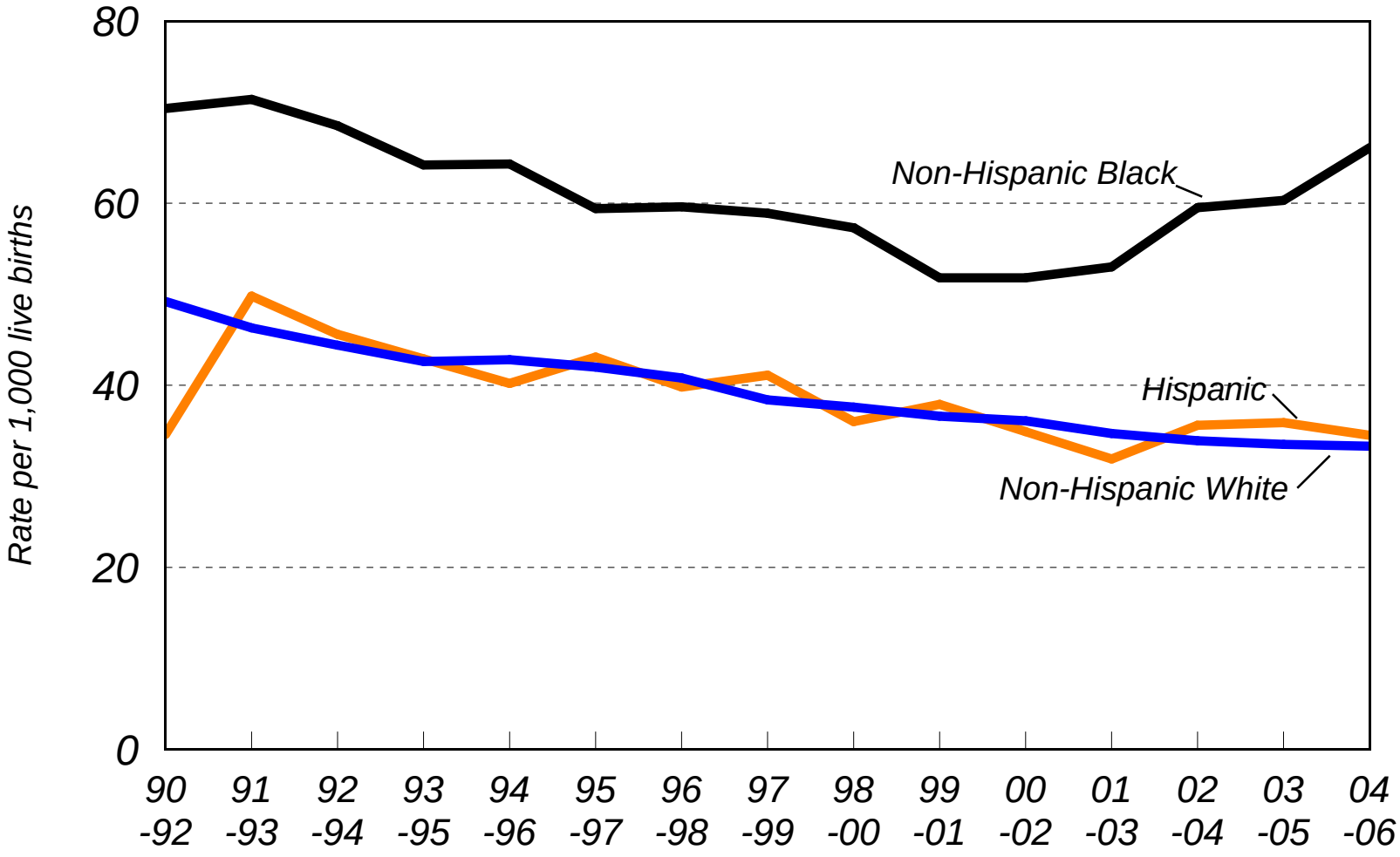
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 2

Figure 21

Infant Mortality Rates of Preterm Infants By Race and Hispanic Origin of Mother

Three-year Moving Averages

Indiana, 1990-2006 Linked Files



Note: Preterm is less than 37 weeks of gestation.

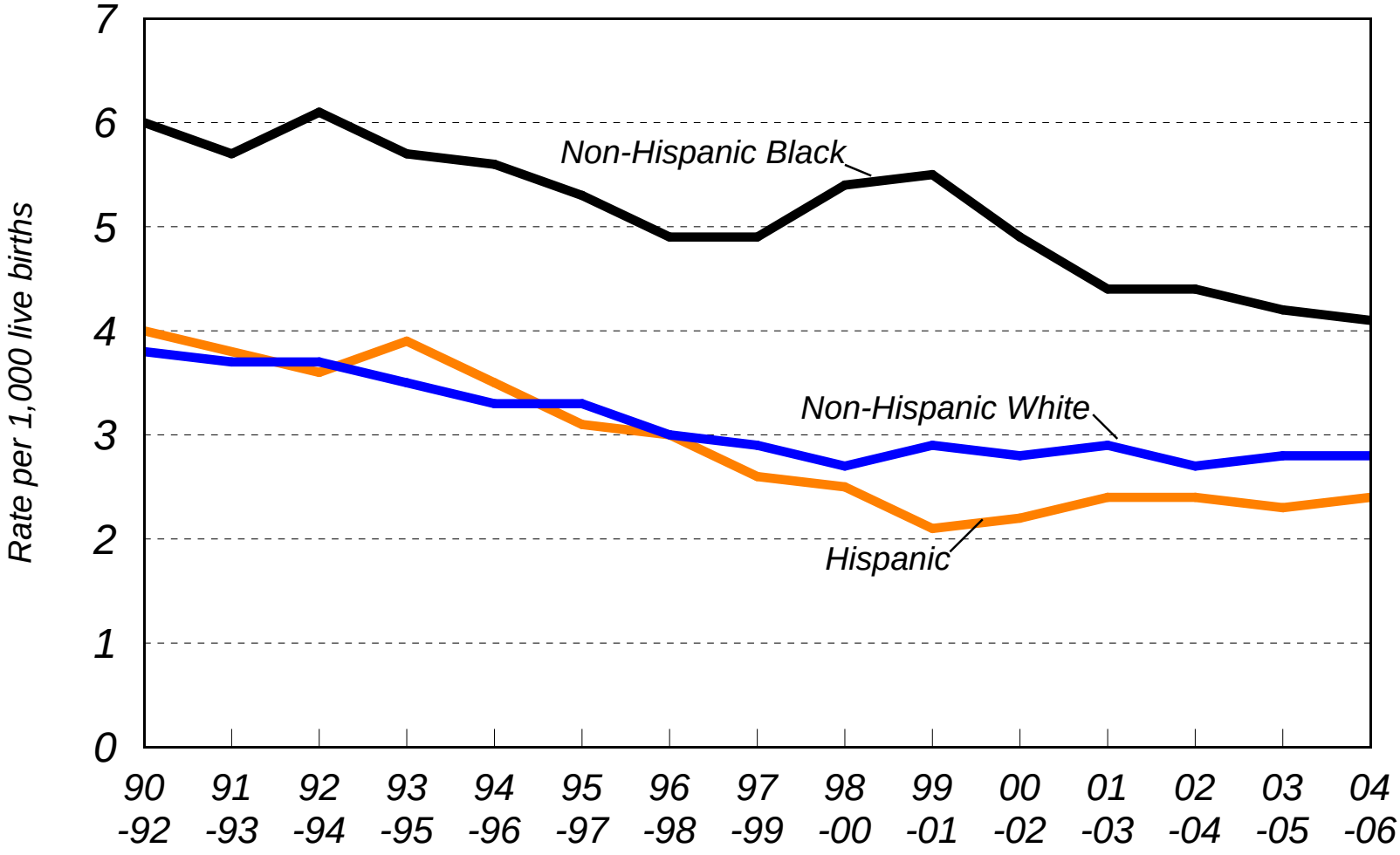
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 12-14

Figure 22

Infant Mortality Rates of Term Infants By Race and Hispanic Origin of Mother

Three-year Moving Averages

Indiana, 1990-2006 Linked Files



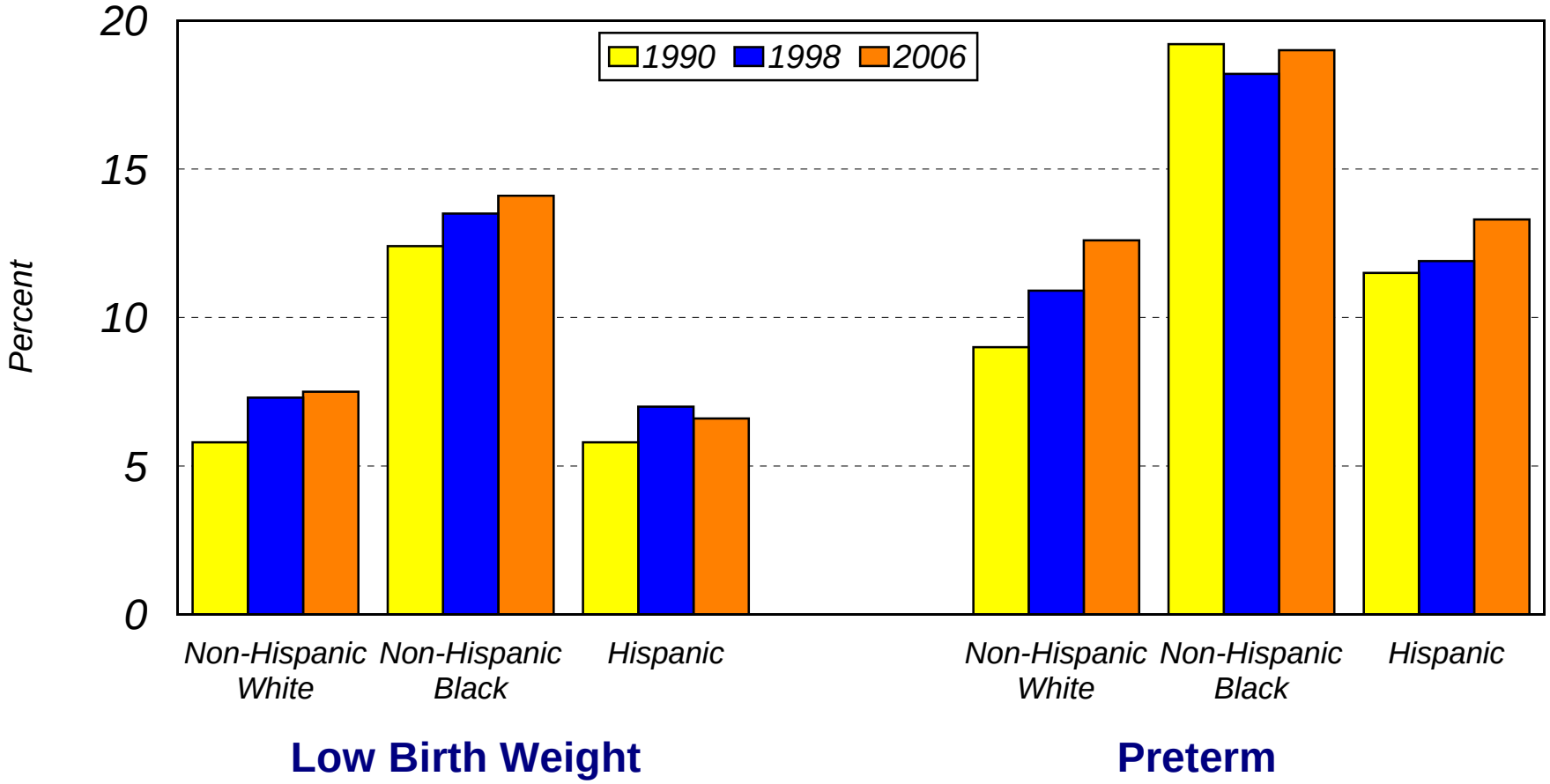
Note: Term is 37 weeks of gestation or higher.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 12-14

Figure 23

Prevalence of Low Birth Weight and Preterm Infants By Race and Hispanic Origin of Mother

Indiana, 1990, 1998, and 2006 Live Births



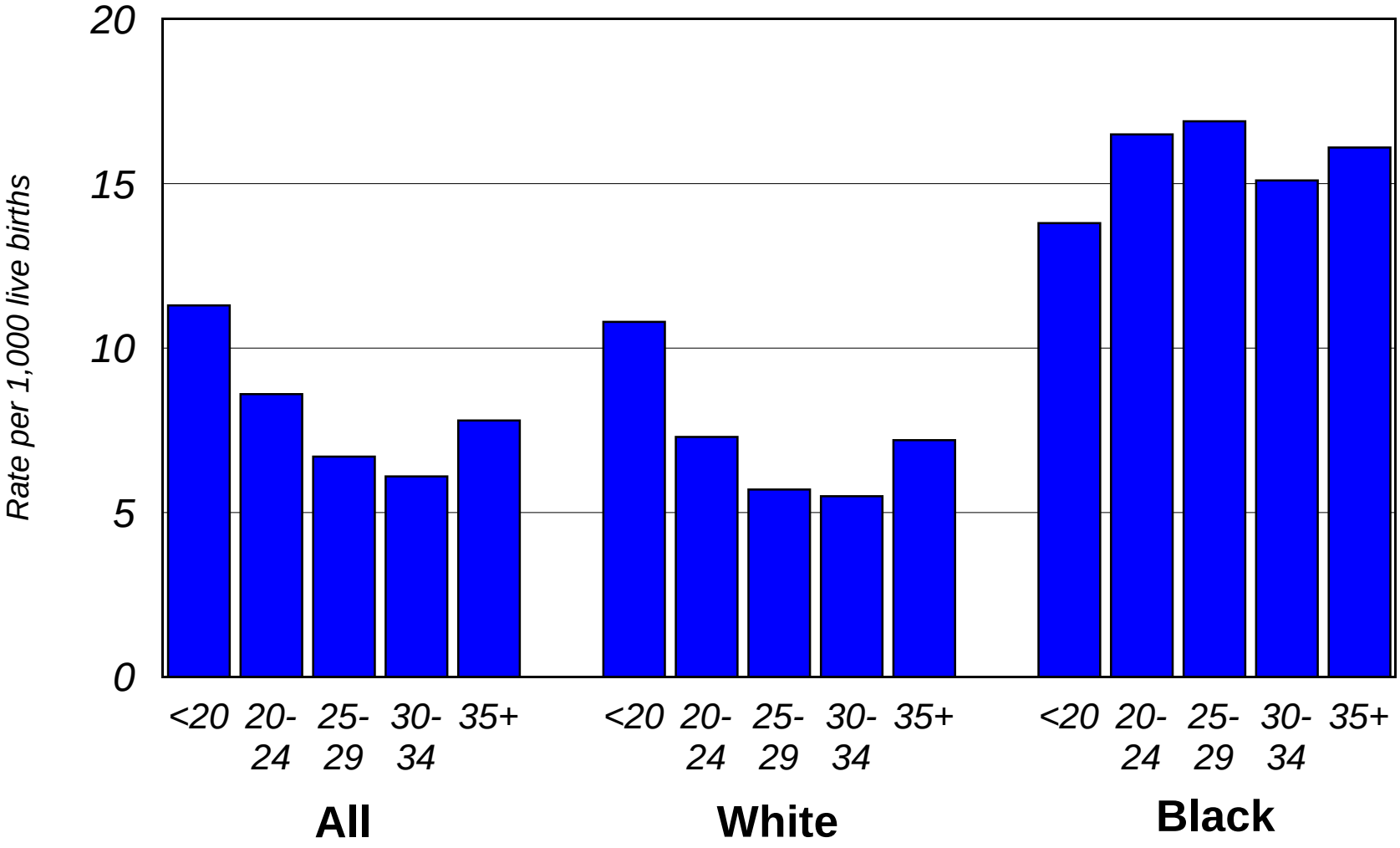
Note: Low Birth Weight is less than 2,500 grams, Preterm is less than 37 weeks of gestation.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set
Extrapolated from Table A-5, Table A-6, and Table A-7

Figure 24

Infant Mortality Rates by Age and Race of Mother

Indiana, 2004-2006 Linked Files



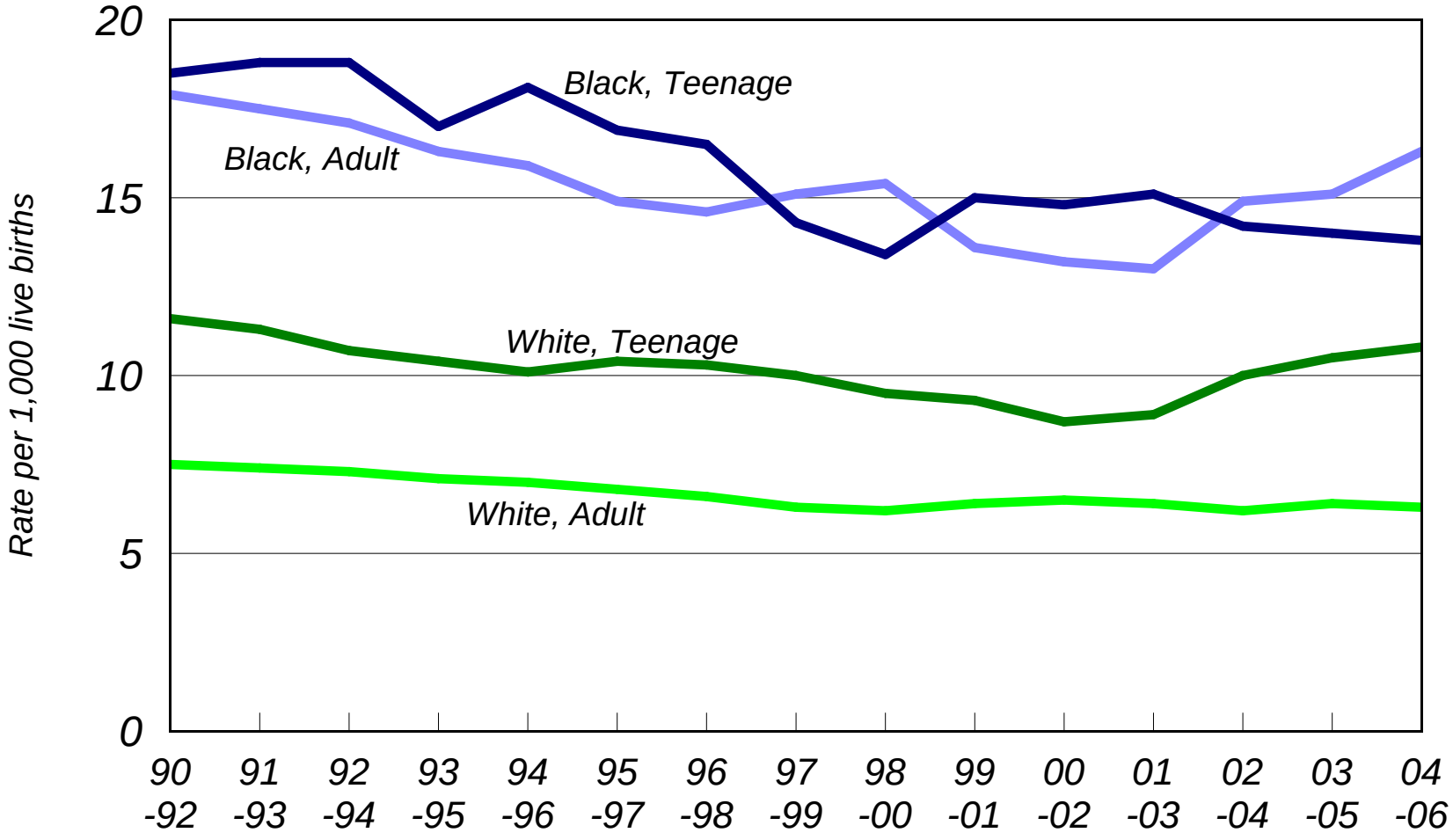
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 9-11

Figure 25

Infant Mortality Rates by Race For Teenage and Adult Mothers

Three-year Moving Averages

Indiana, 1990-2006 Linked Files



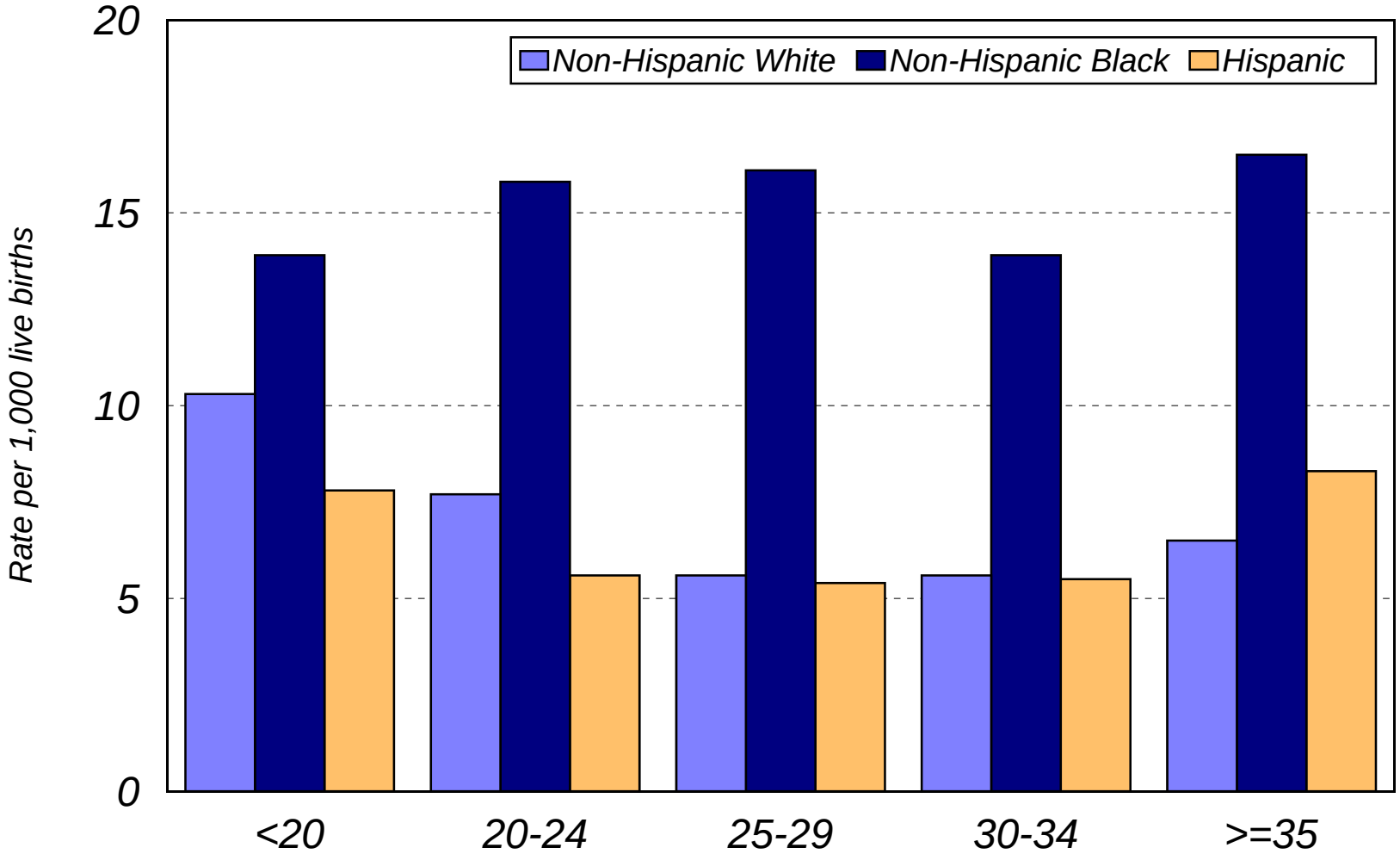
Note: Teenage is under 20 years of age, Adult is 20 years of age or more.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 10-11

Figure 26

Infant Mortality Rates by Age and Race and Hispanic Origin of Mother

Indiana, 2002-2006 Linked Files



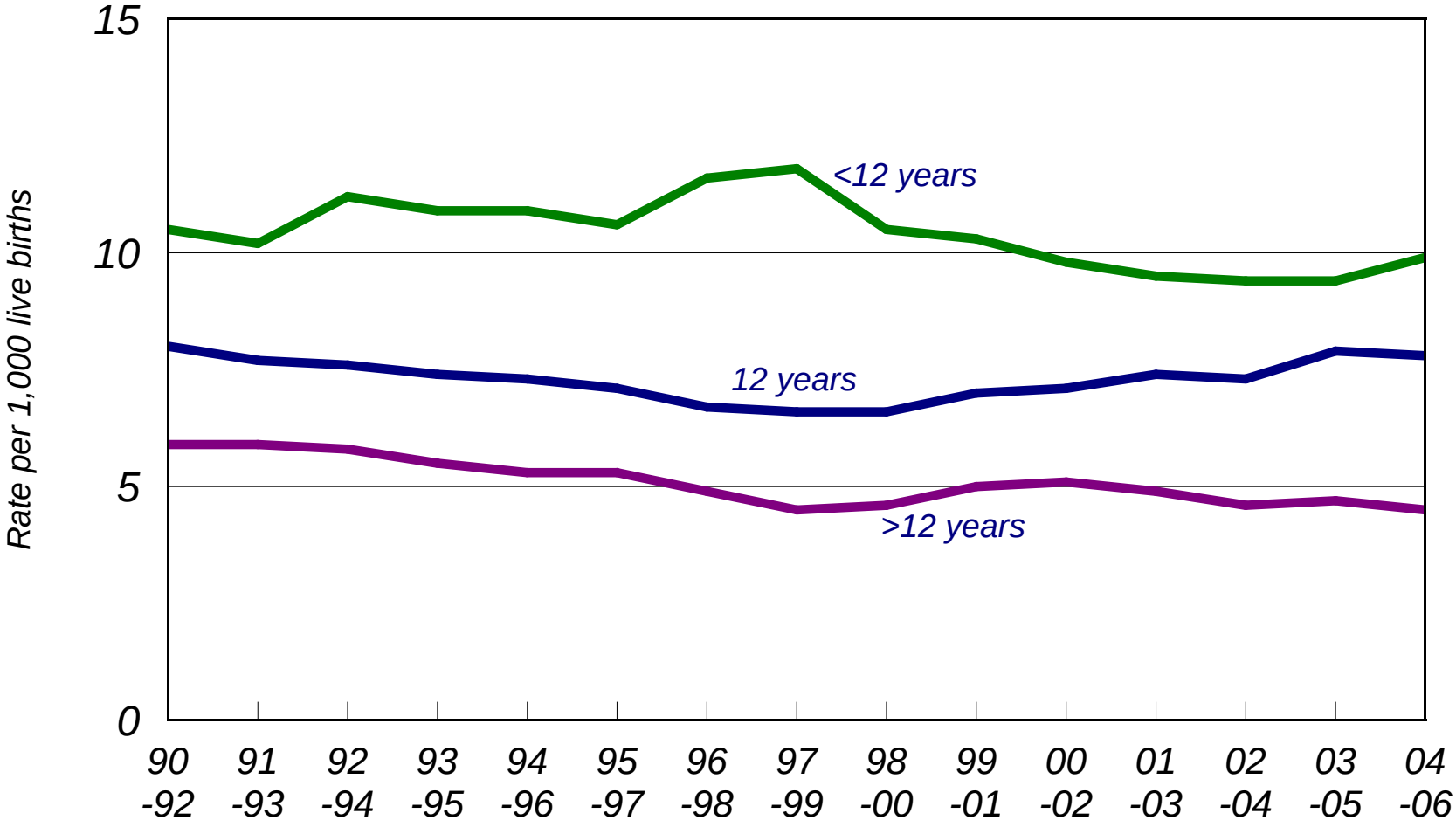
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 19-21

Figure 27

Infant Mortality Rates of Non-Hispanic Whites By Education of Mother

Three-year Moving Averages

Indiana, 1990-2006 Linked Files



Note: Among adult (20+ years) mothers.

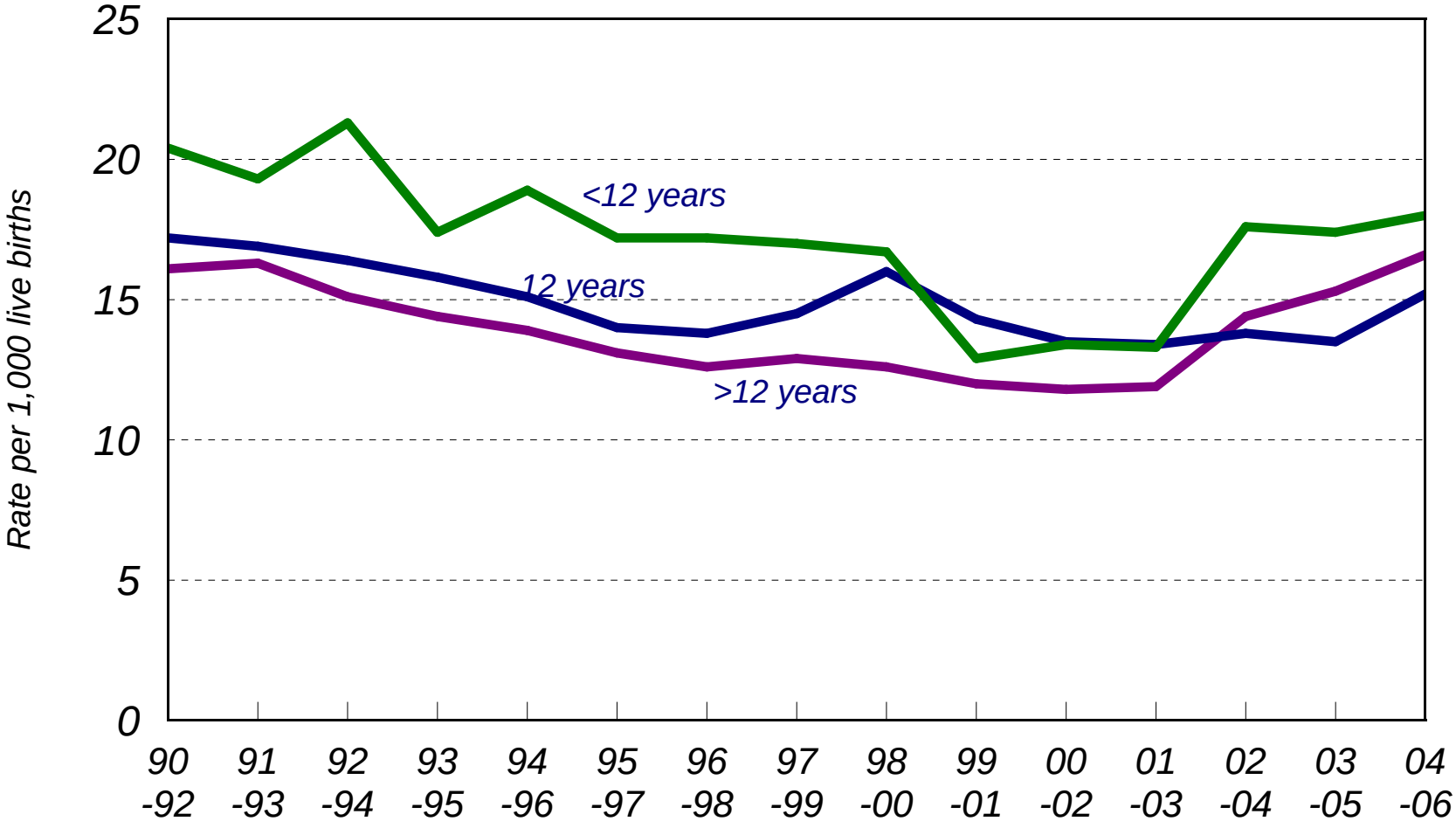
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 12

Figure 28

Infant Mortality Rates of Non-Hispanic Blacks By Education of Mother

Three-year Moving Averages

Indiana, 1990-2006 Linked Files



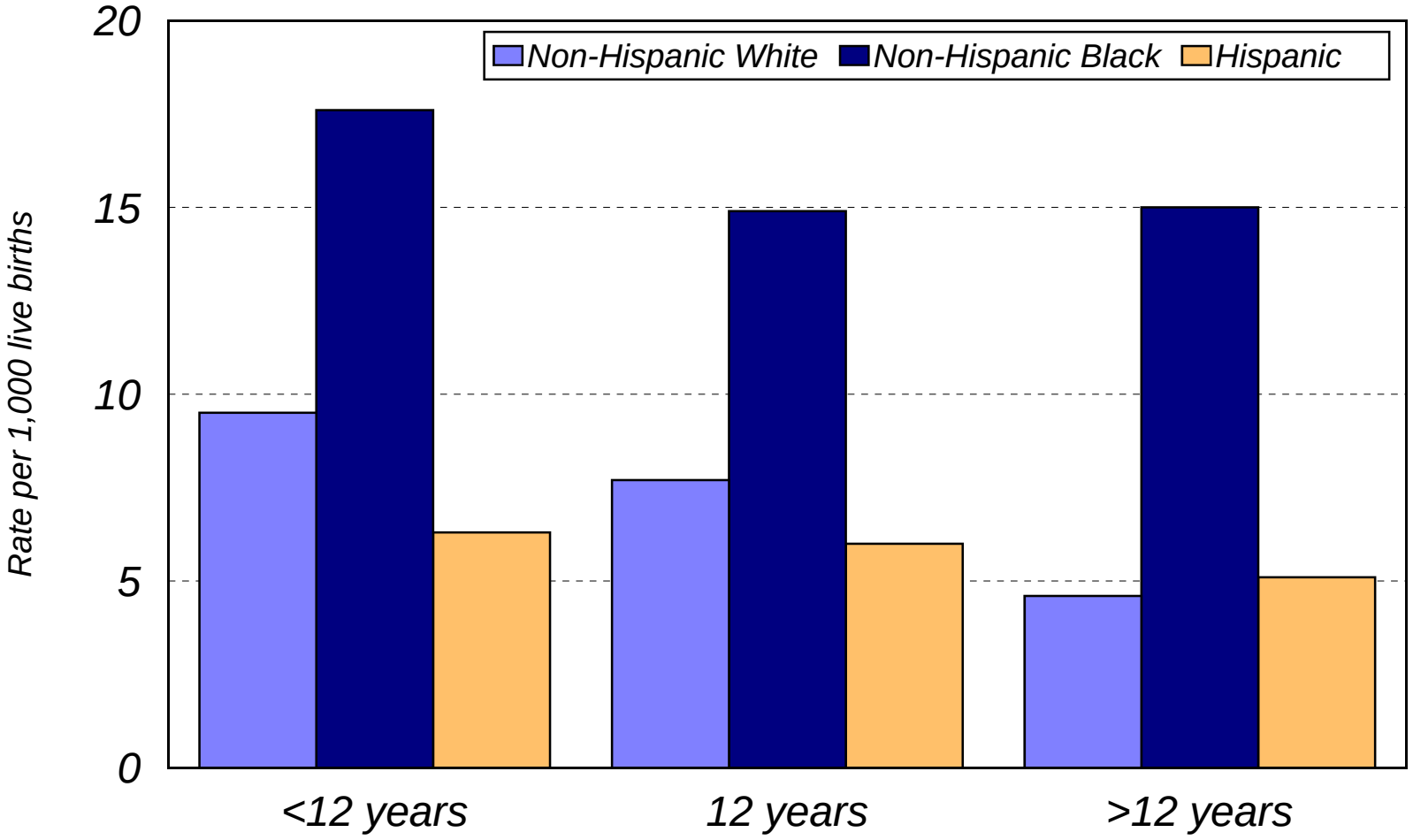
Note: Among adult (20+ years) mothers.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 13

Figure 29

Infant Mortality Rates by Education and Race and Hispanic Origin of Mother

Indiana, 2002-2006 Linked Files

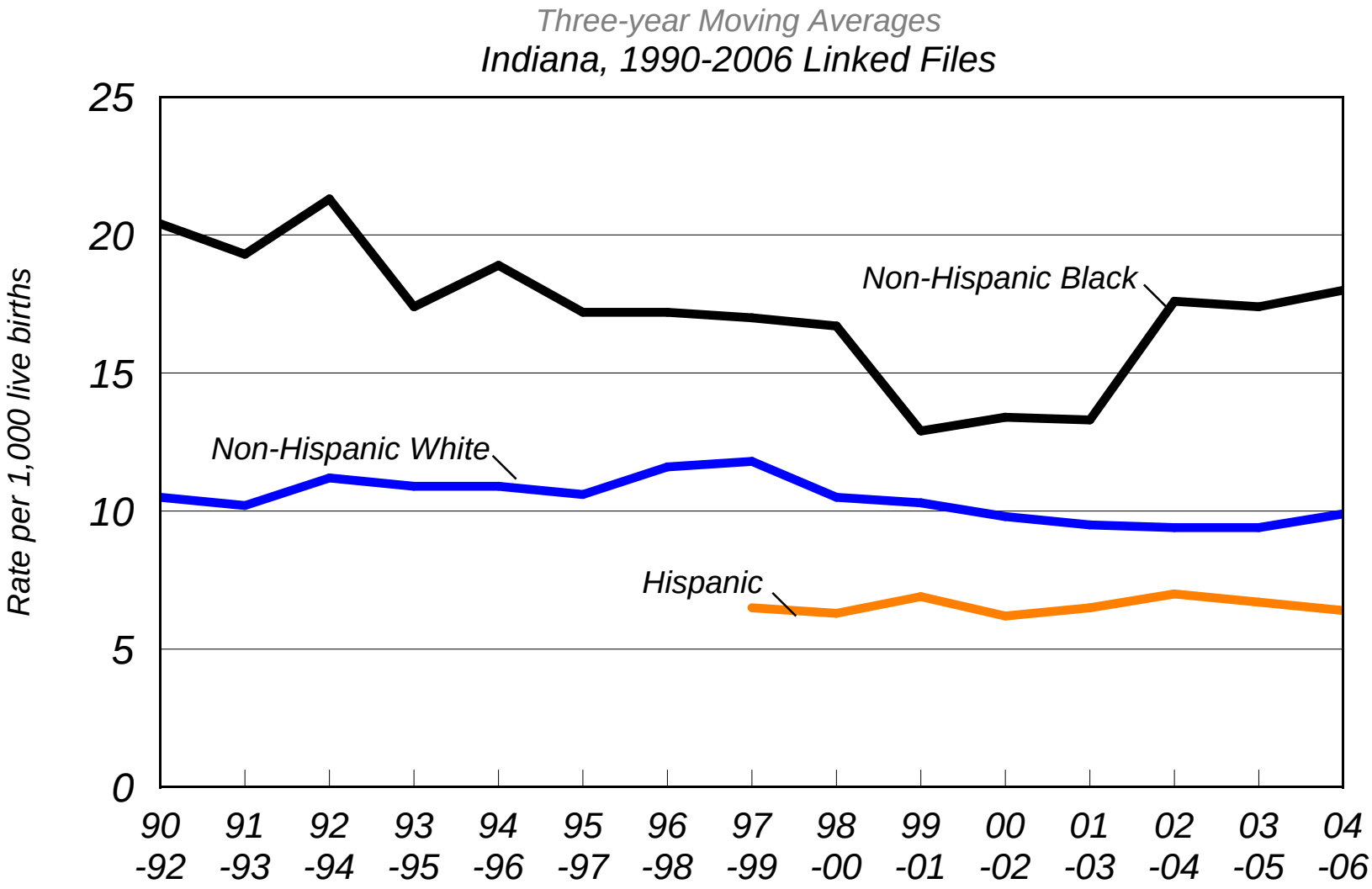


Note: Among adult (20+ years) mothers.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 19-21

Figure 30

Infant Mortality Rates by Race and Hispanic Origin For Mothers With Less Than 12 years of Education



Note: Among adult (20+ years) mothers.

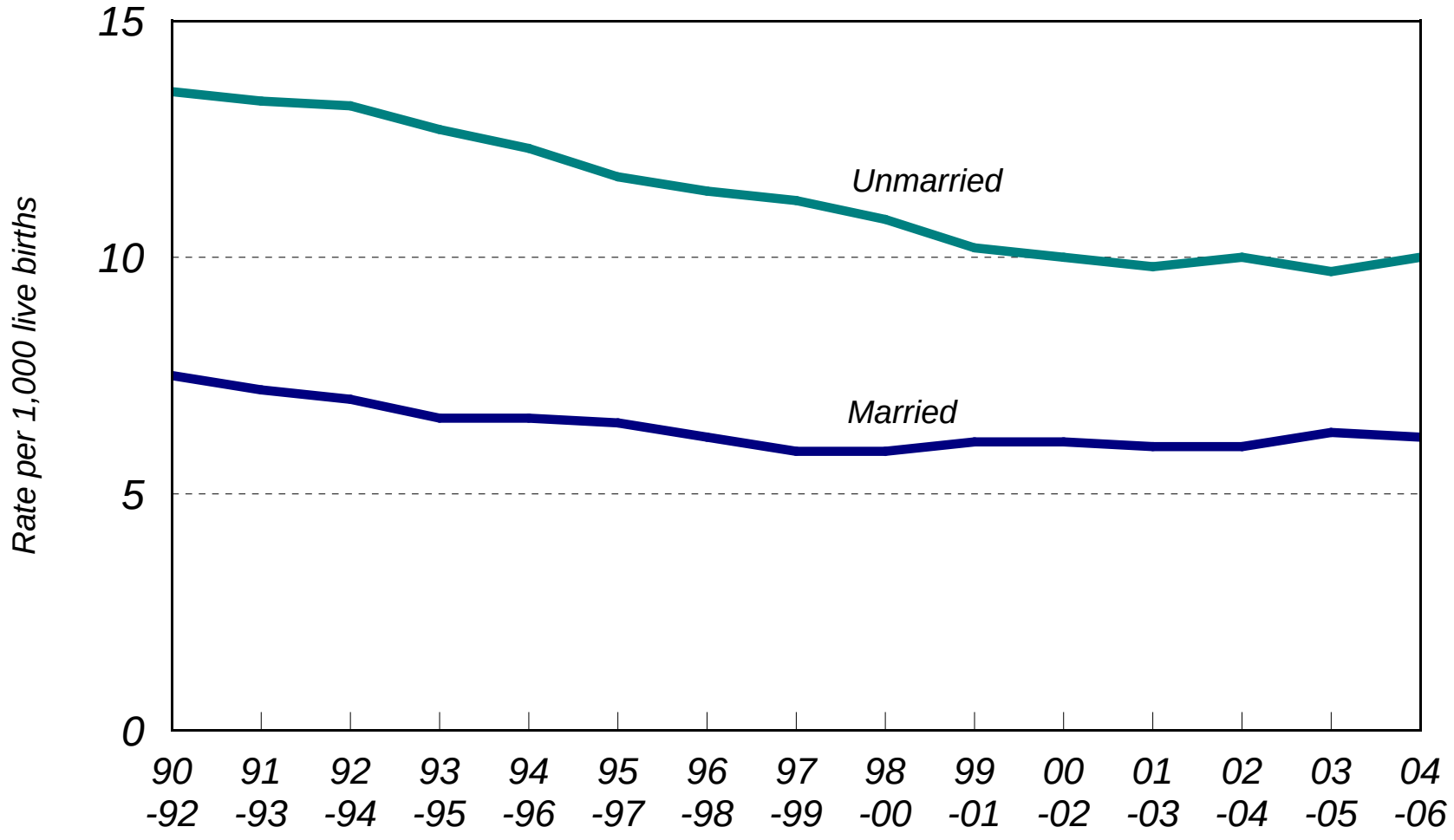
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 12-14

Figure 31

Infant Mortality Rates by Marital Status of Mother

Three-year Moving Averages

Indiana, 1990-2006 Linked Files

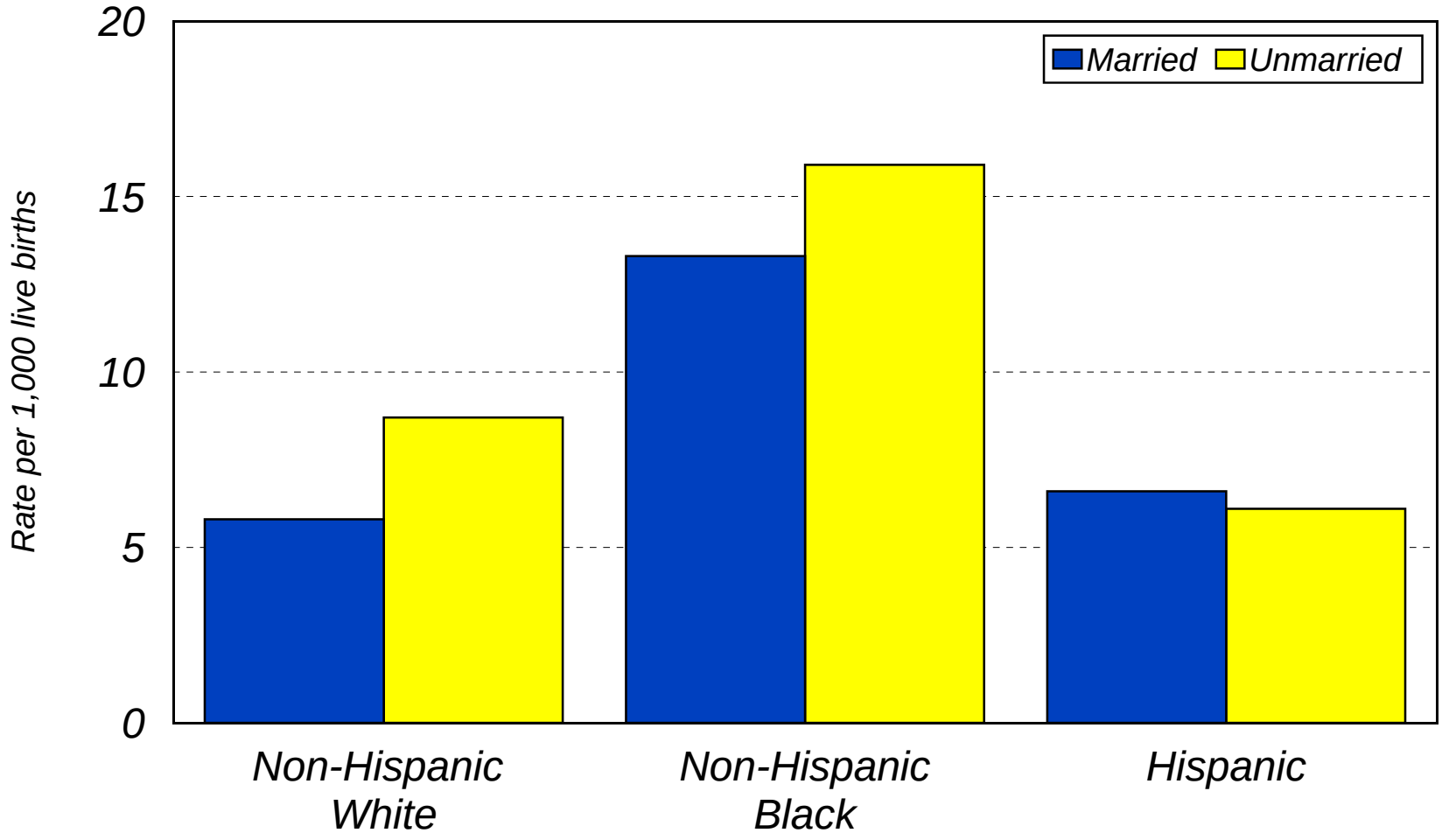


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 9

Figure 32

Infant Mortality Rates by Marital Status and Race and Hispanic Origin of Mother

Indiana, 2002-2006 Linked Files

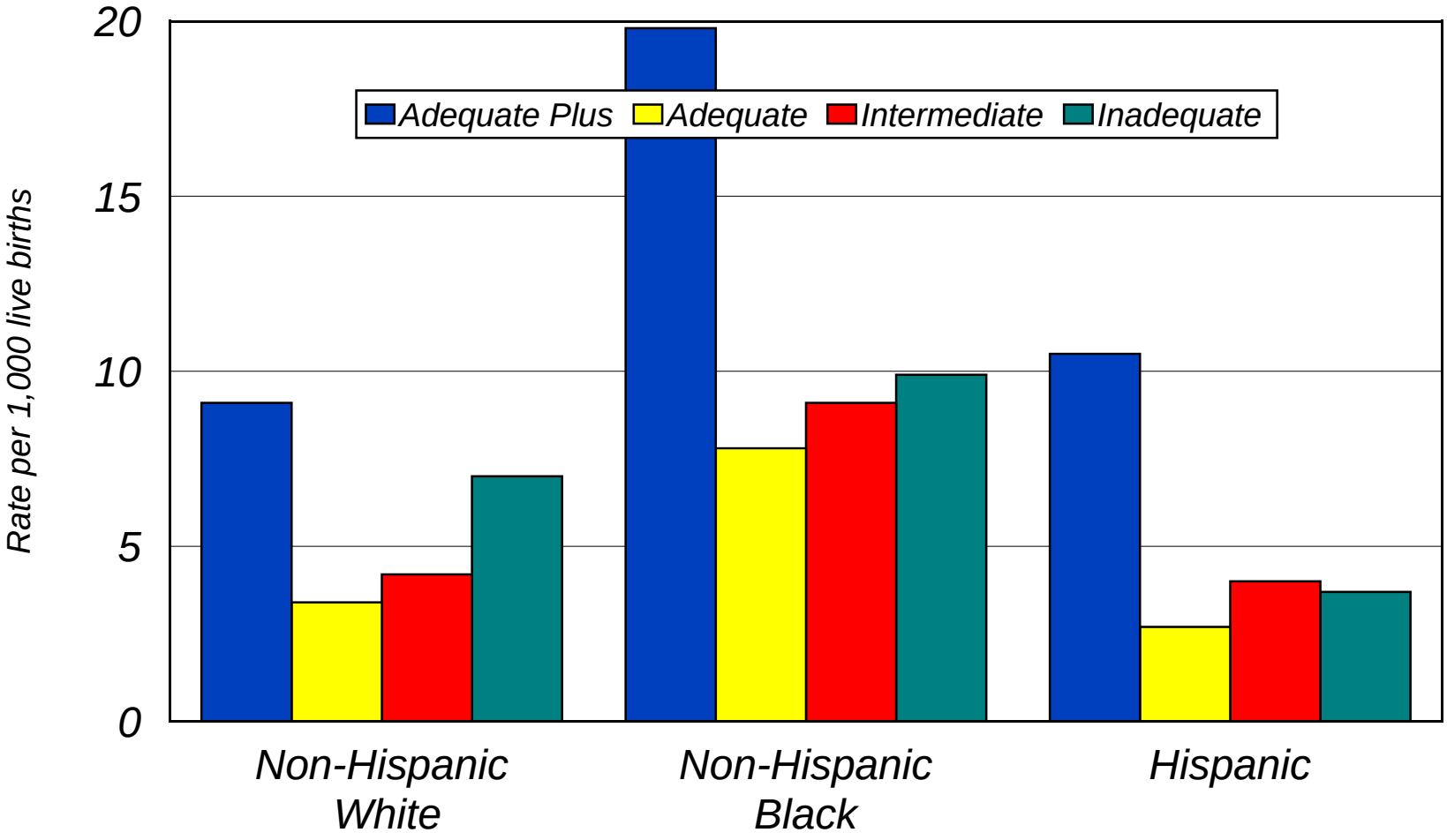


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 19-21

Figure 33

Infant Mortality Rates by Adequacy of Prenatal Care and Race and Hispanic Origin of Mother

Indiana, 2002-2006 Linked Files



Note: Adequacy of prenatal care is based on Kotelchuck Index.

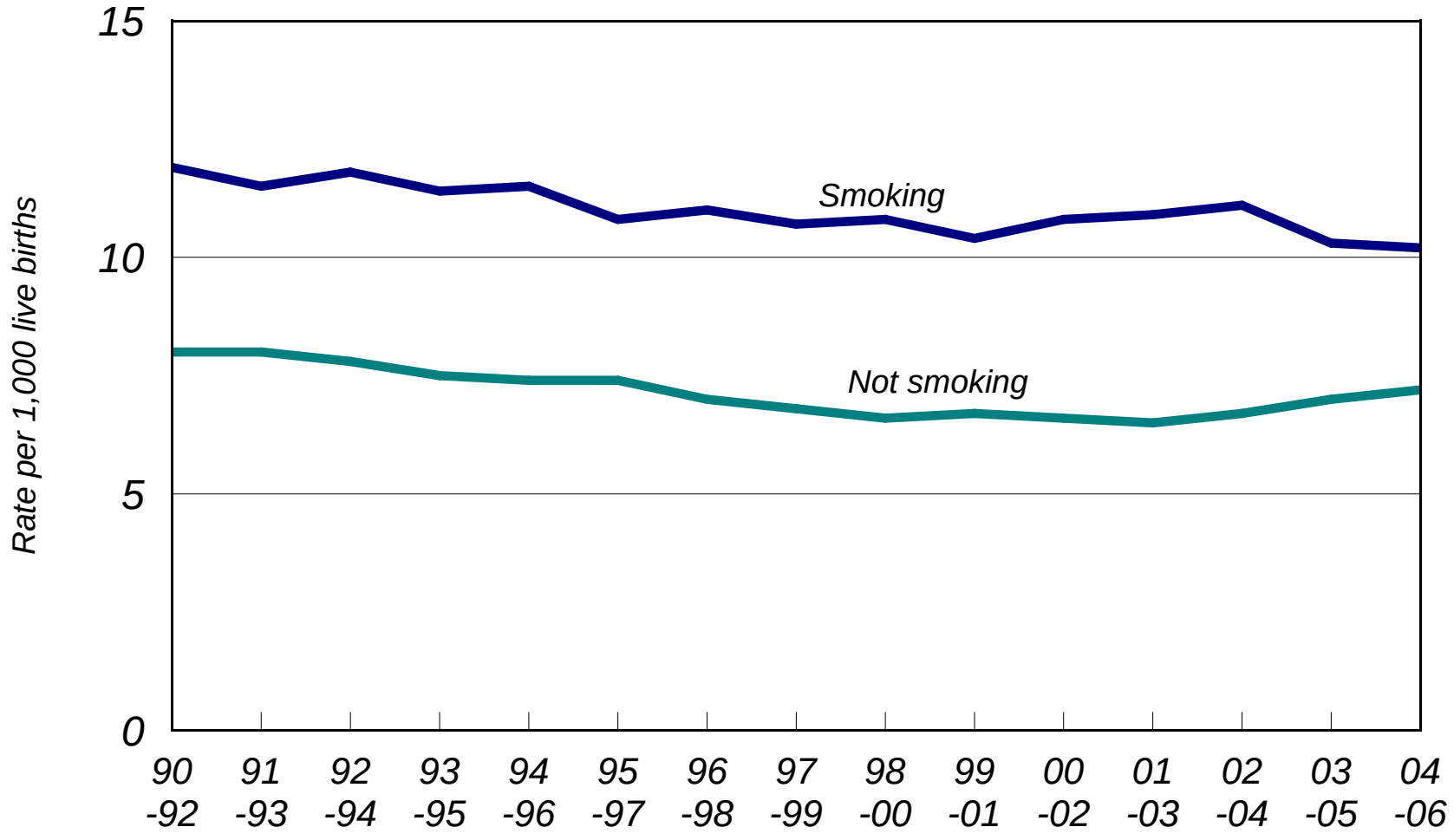
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 19-21

Figure 34

Infant Mortality Rates by Smoking Status of Mother

Three-year Moving Averages

Indiana, 1990-2006 Linked Files

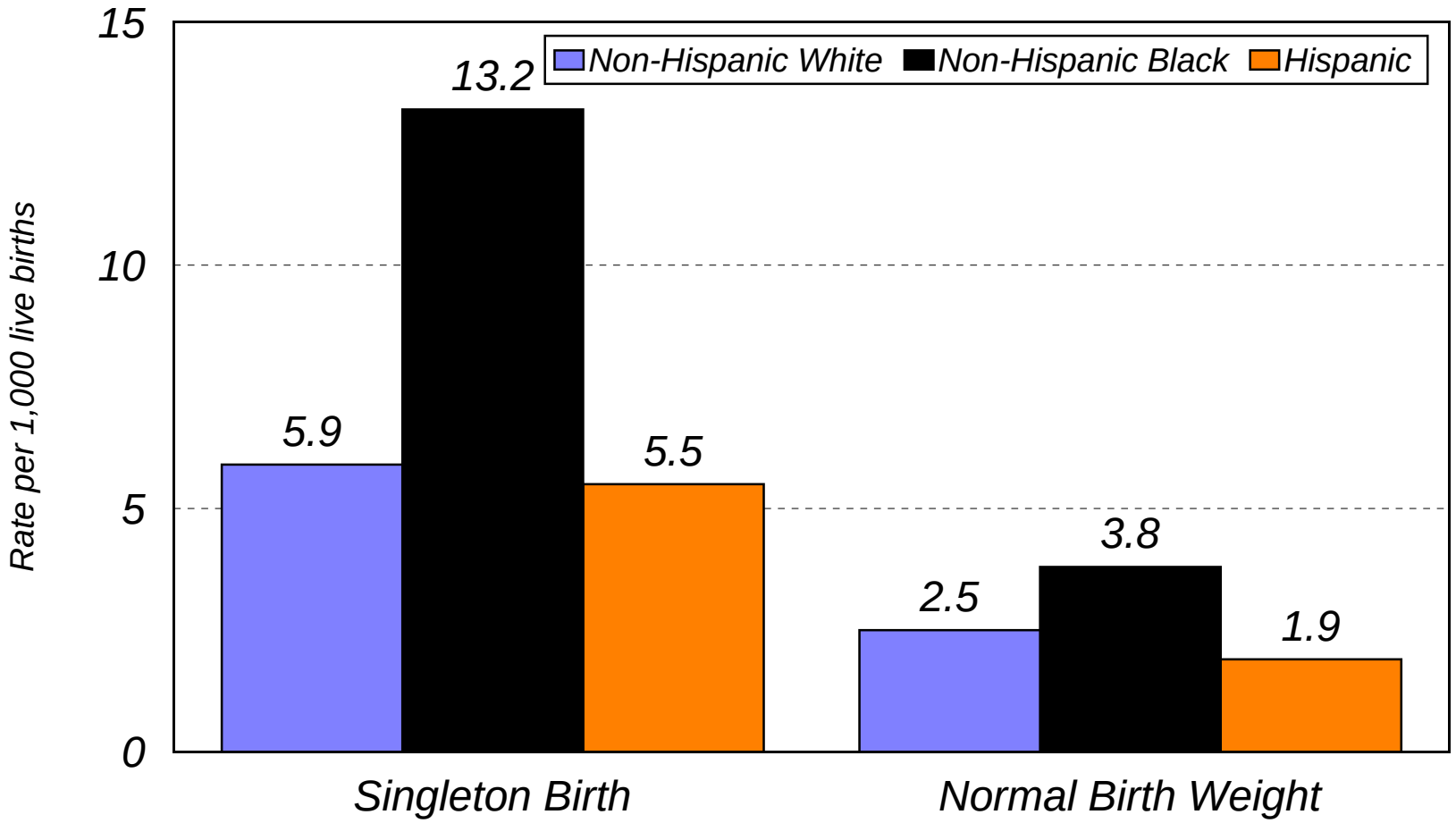


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 9

Figure 35

Infant Mortality Rates for Singletons and Normal Birth Weight Infants By Race and Hispanic Origin of Mother

Indiana, 2002-2006 Linked Files



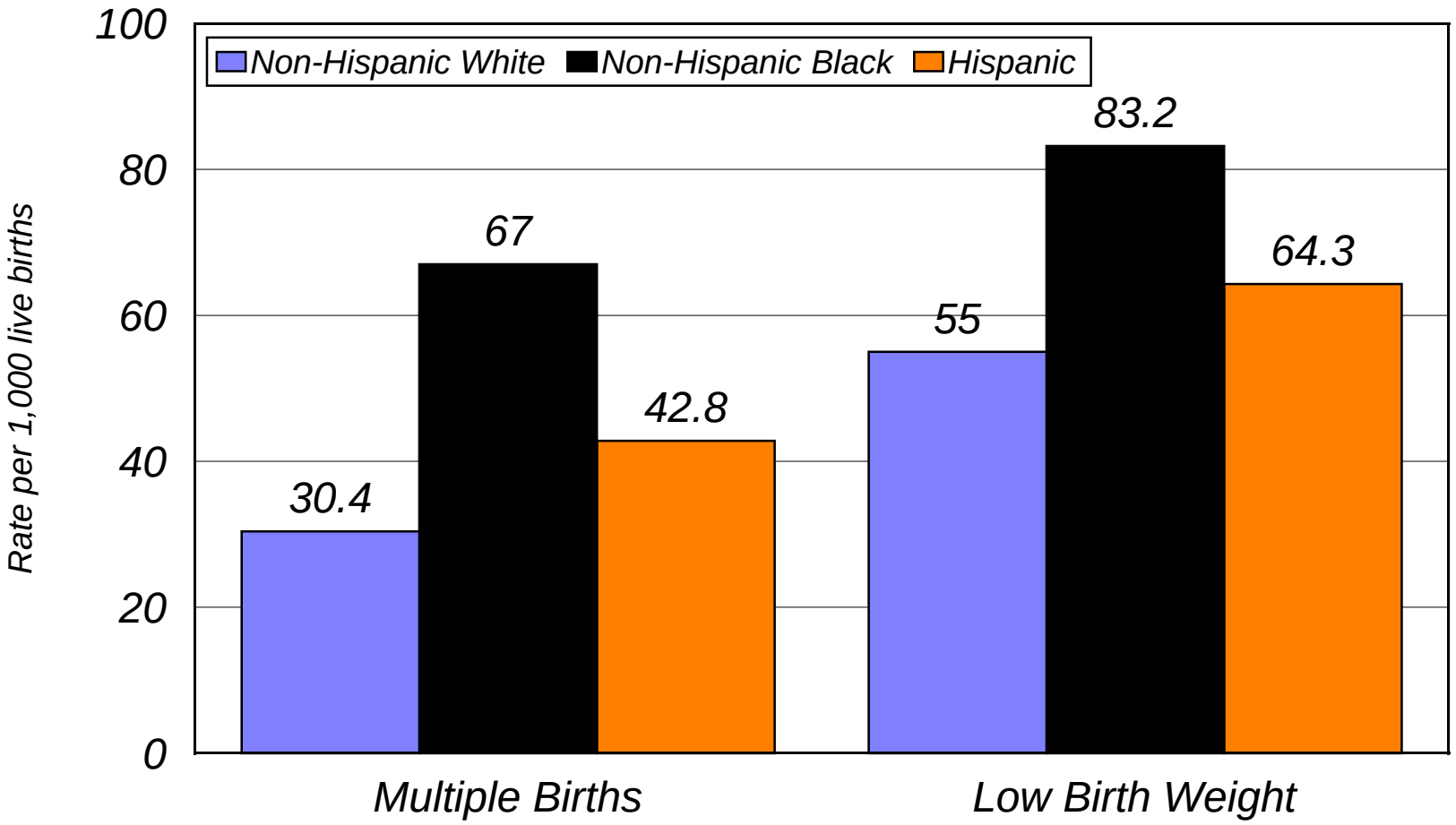
Note: Normal Birth Weight is 2,500 grams or higher.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 19-21

Figure 36

Infant Mortality Rates for Multiple Births and for Low Birth Weight Infants by Race and Hispanic Origin of Mother

Indiana, 2002-2006 Linked Files



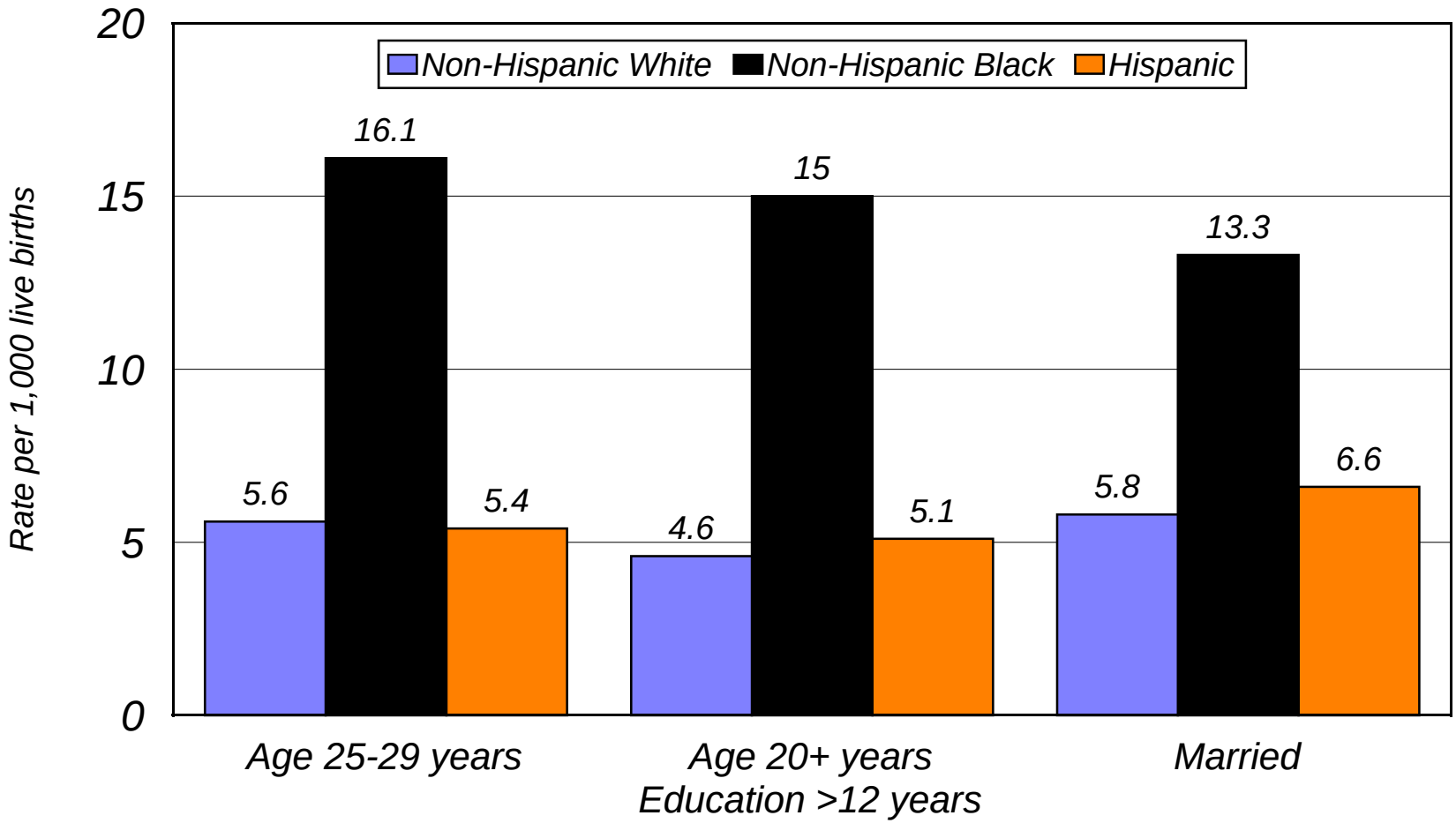
Note: Low Birth Weight is less than 2,500 grams.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 19-21

Figure 37

Infant Mortality Rates for Mothers with One or More Low Risk Demographic Characteristics by Race and Hispanic Origin of Mother

Indiana, 2002-2006 Linked Files

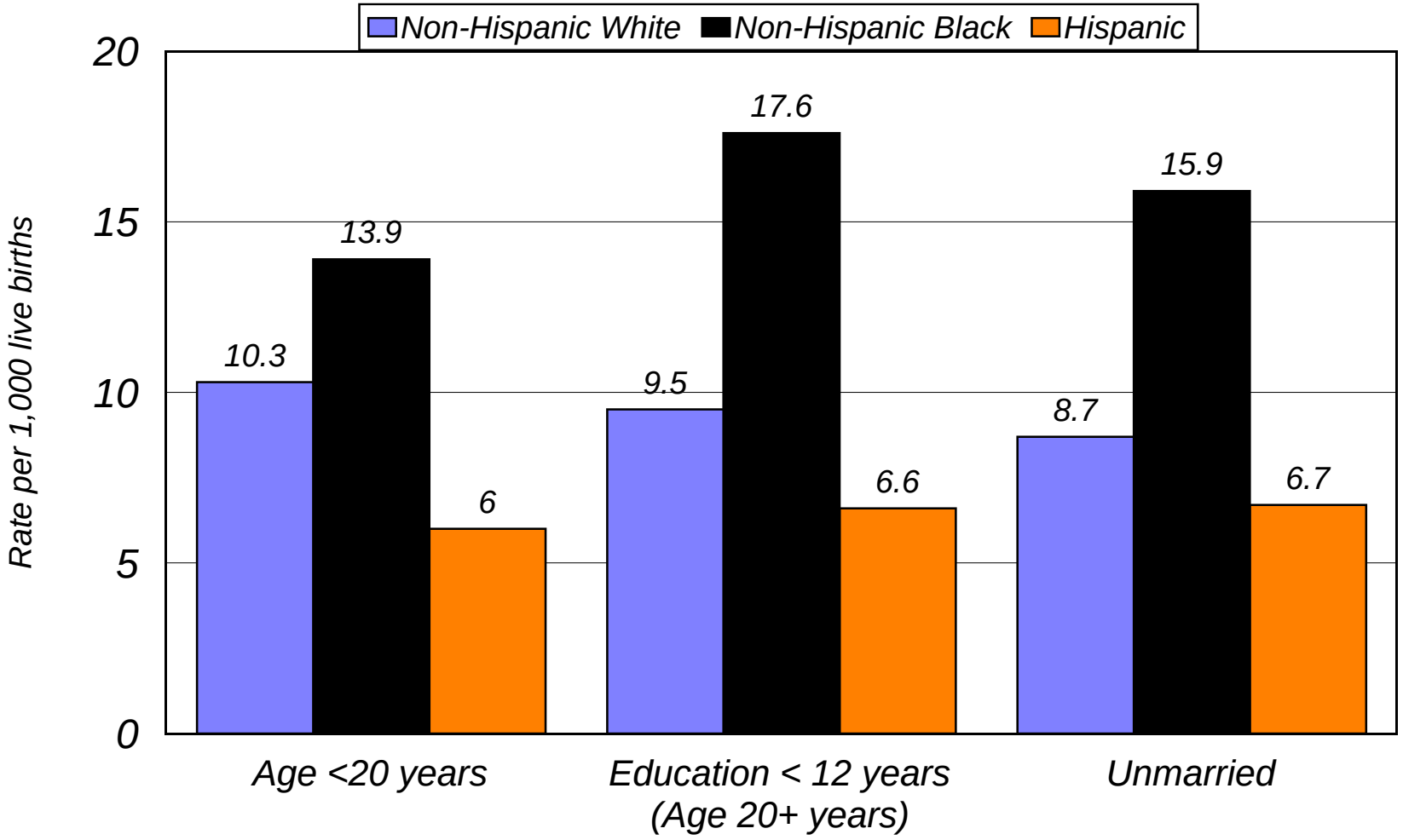


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 19-21

Figure 38

Infant Mortality Rates for Mothers with One or More Potential High Risk Demographic Characteristics by Race and Hispanic Origin of Mother

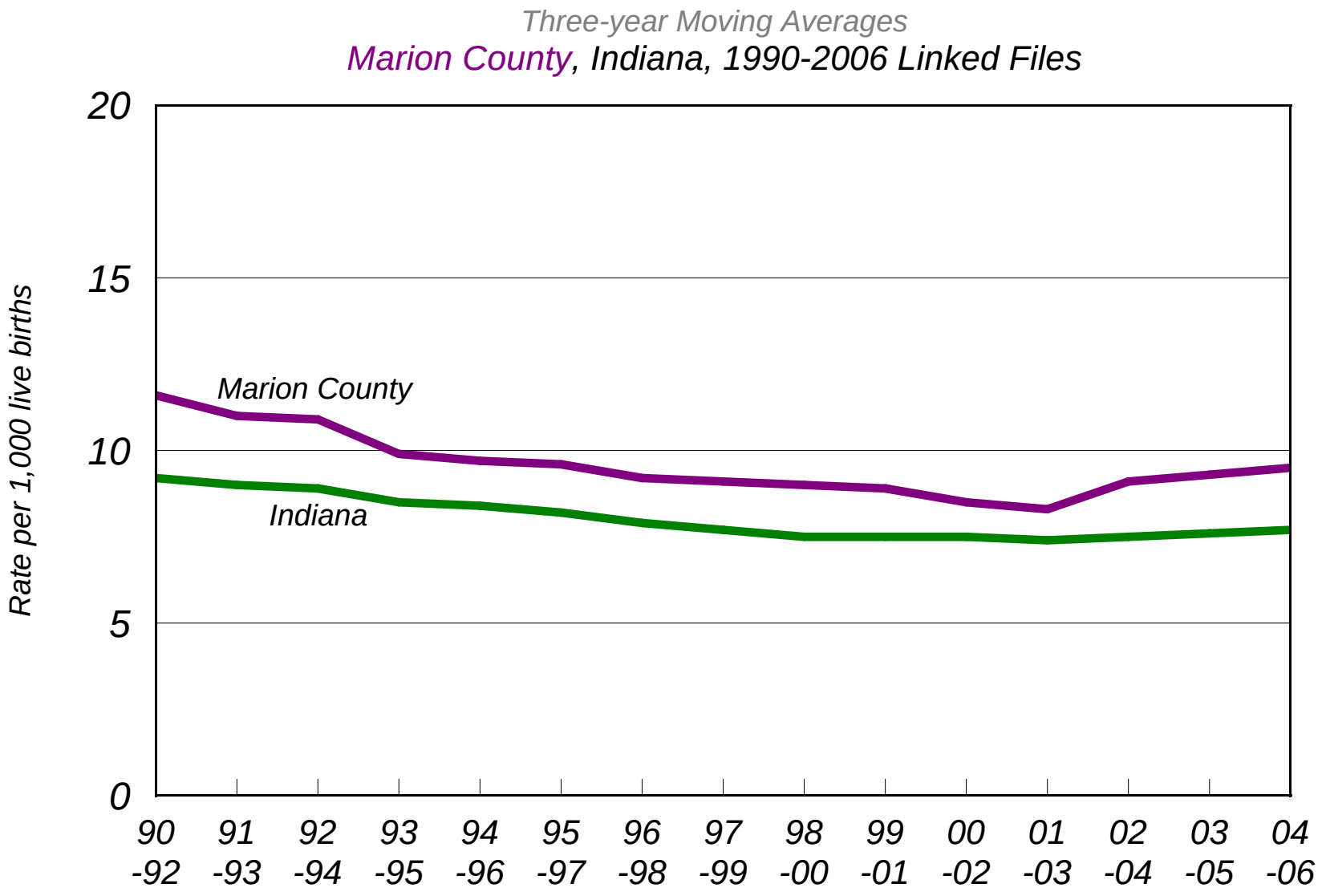
Indiana, 2002-2006 Linked Files



Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 19-21

Figure 39

Infant Mortality Rates in Marion County Compared to Indiana



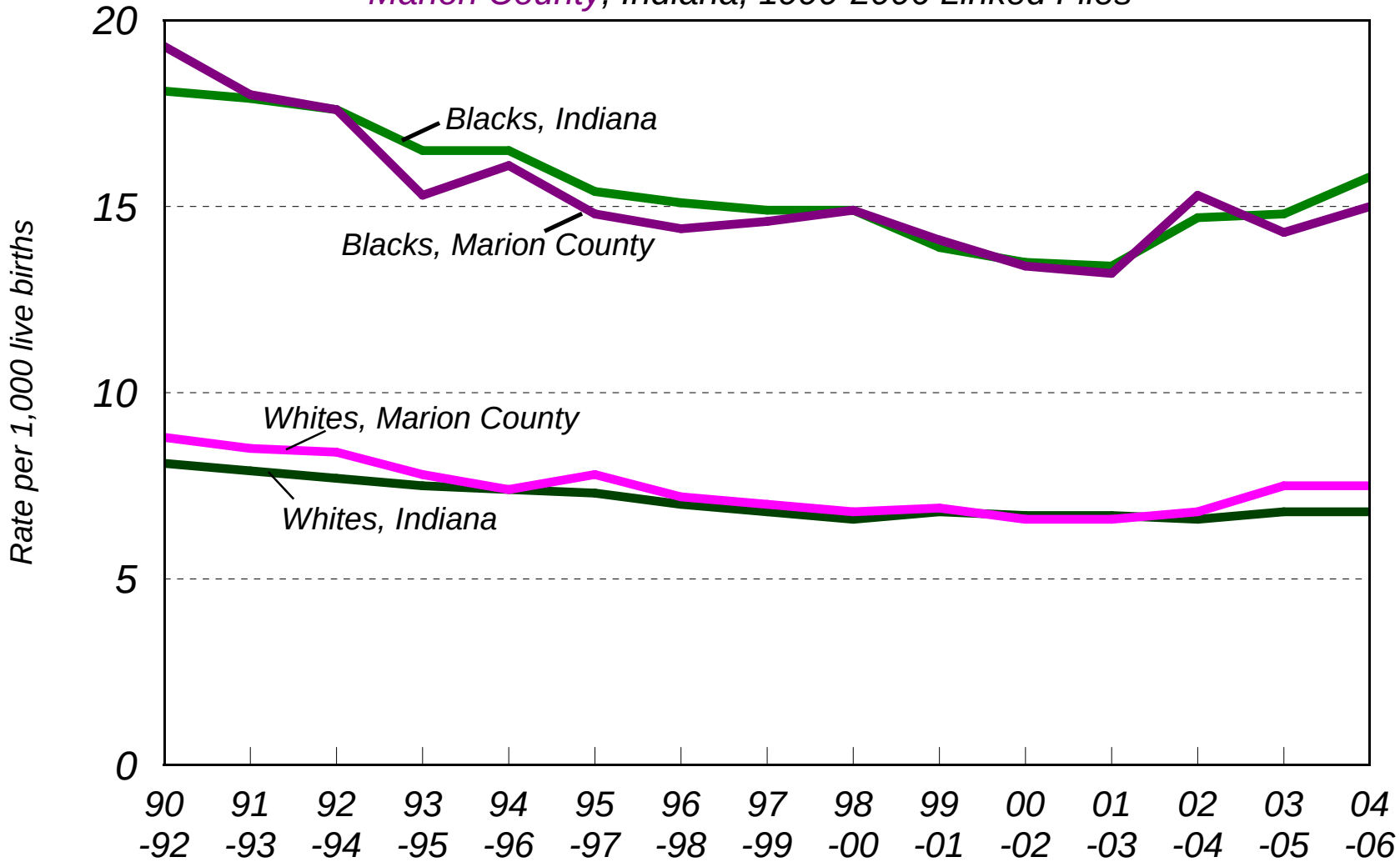
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 1 and 22

Figure 40

Infant Mortality Rates by Race in Marion County Compared to Indiana

Three-year Moving Averages

Marion County, Indiana, 1990-2006 Linked Files

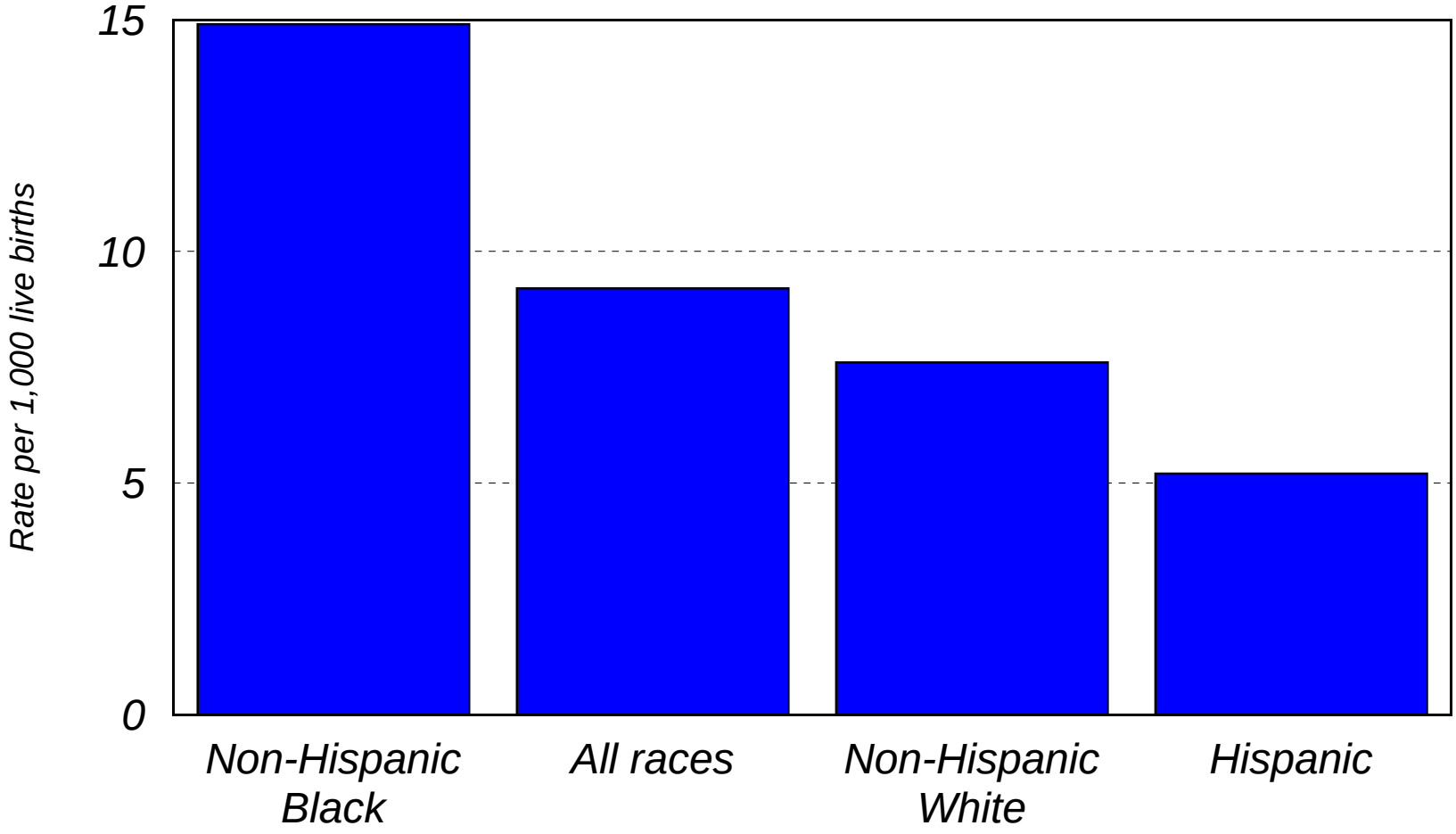


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 1 and 22

Figure 41

Infant Mortality Rates by Race and Hispanic Origin of Mother

Marion County, Indiana, 2002-2006 Linked Files

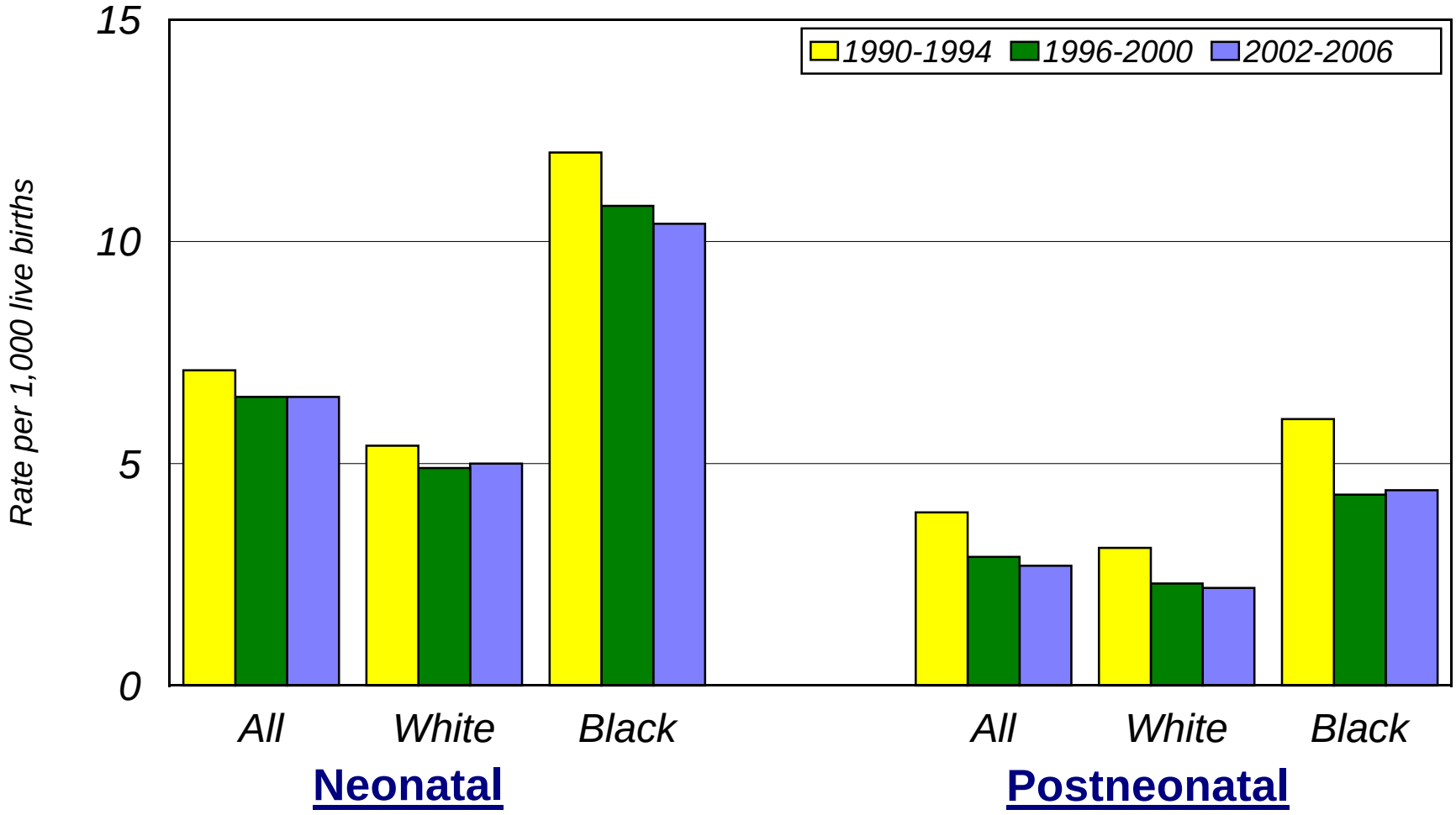


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 26

Figure 42

Neonatal and Postneonatal Mortality Rates By Race of Mother

Marion County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



Note: Neonatal is less than 28 days, and postneonatal is 28 days to under 1year.

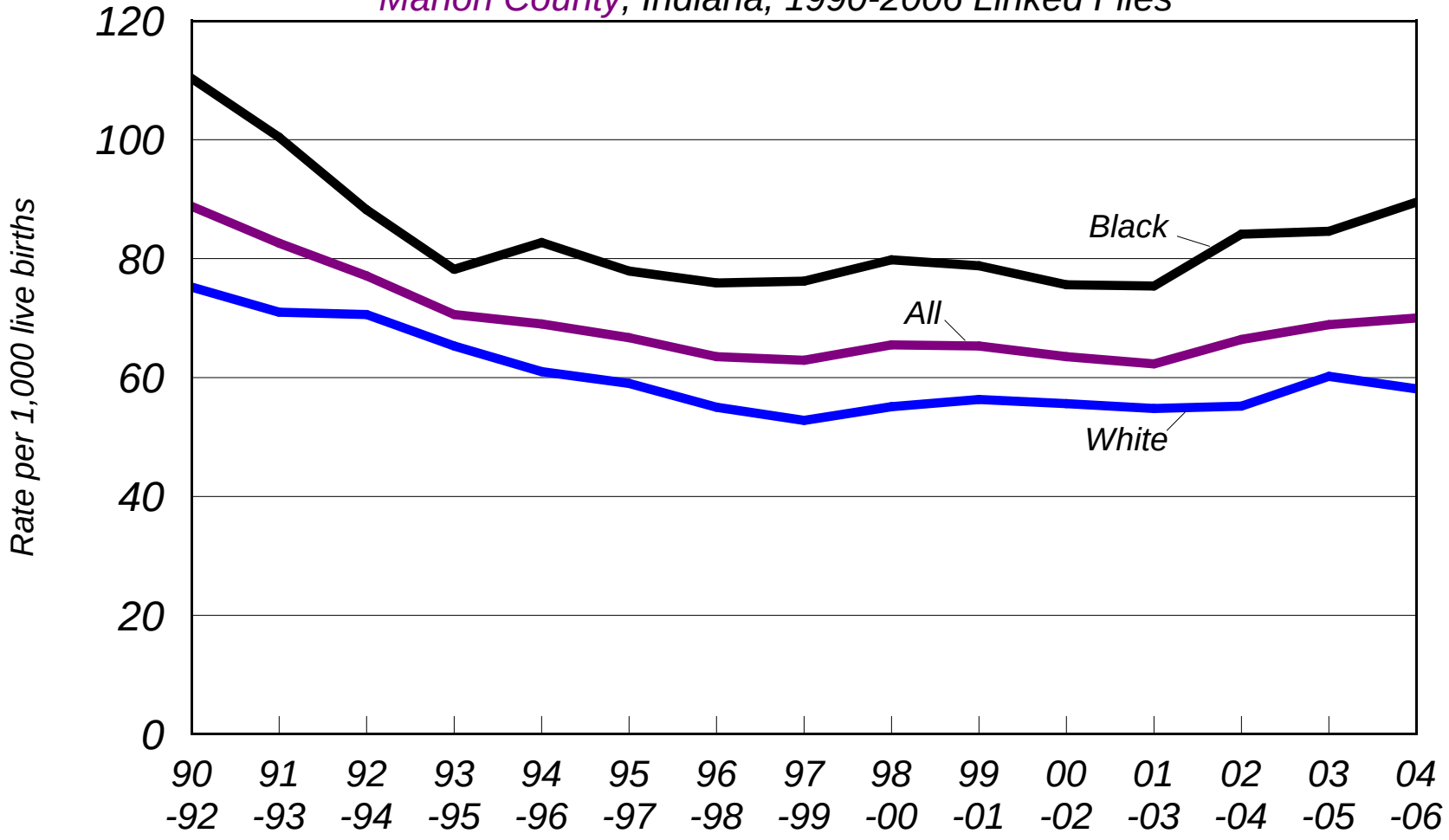
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 26

Figure 43

Infant Mortality Rates of Low Birth Weight Infants By Race of Mother

Three-year Moving Averages

Marion County, Indiana, 1990-2006 Linked Files



Note: Low Birth Weight is less than 2,500 grams.

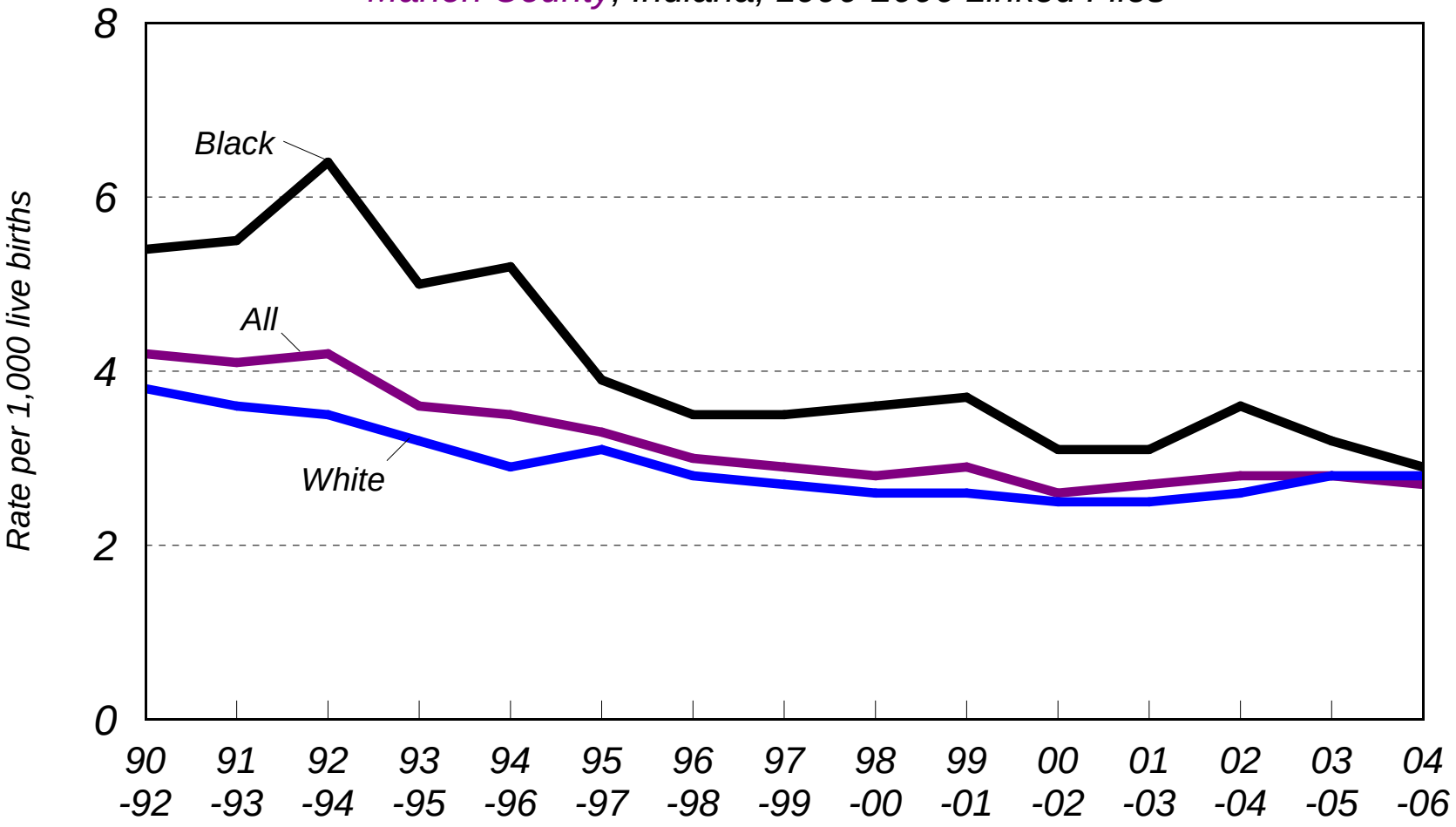
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 23-25

Figure 44

Infant Mortality Rates of Normal Birth Weight Infants By Race of Mother

Three-year Moving Averages

Marion County, Indiana, 1990-2006 Linked Files



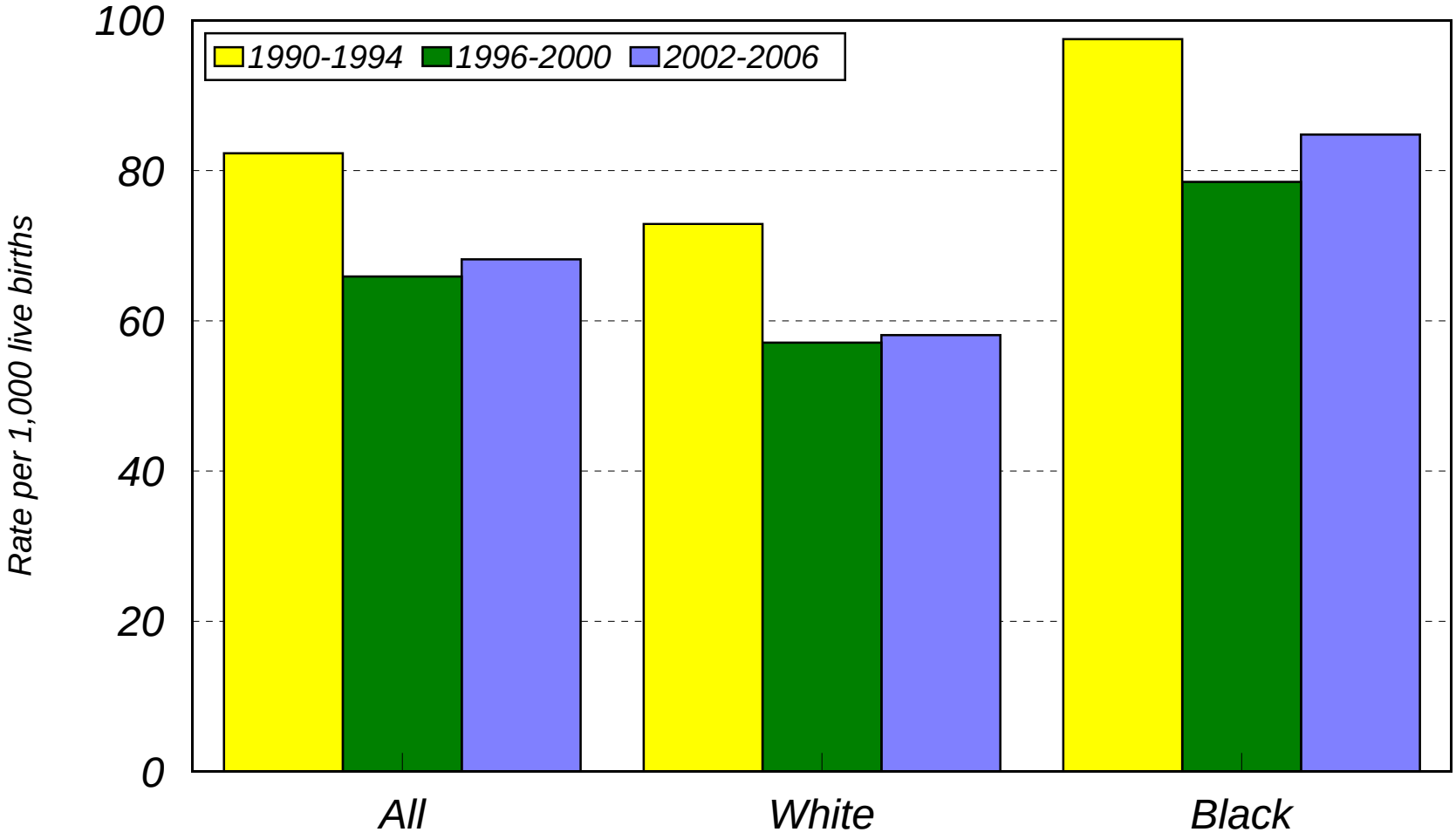
Note: Normal Birth Weight is 2,500 grams or higher.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 23-25

Figure 45

Infant Mortality Rates of Low Birth Weight Infants By Race of Mother

Marion County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



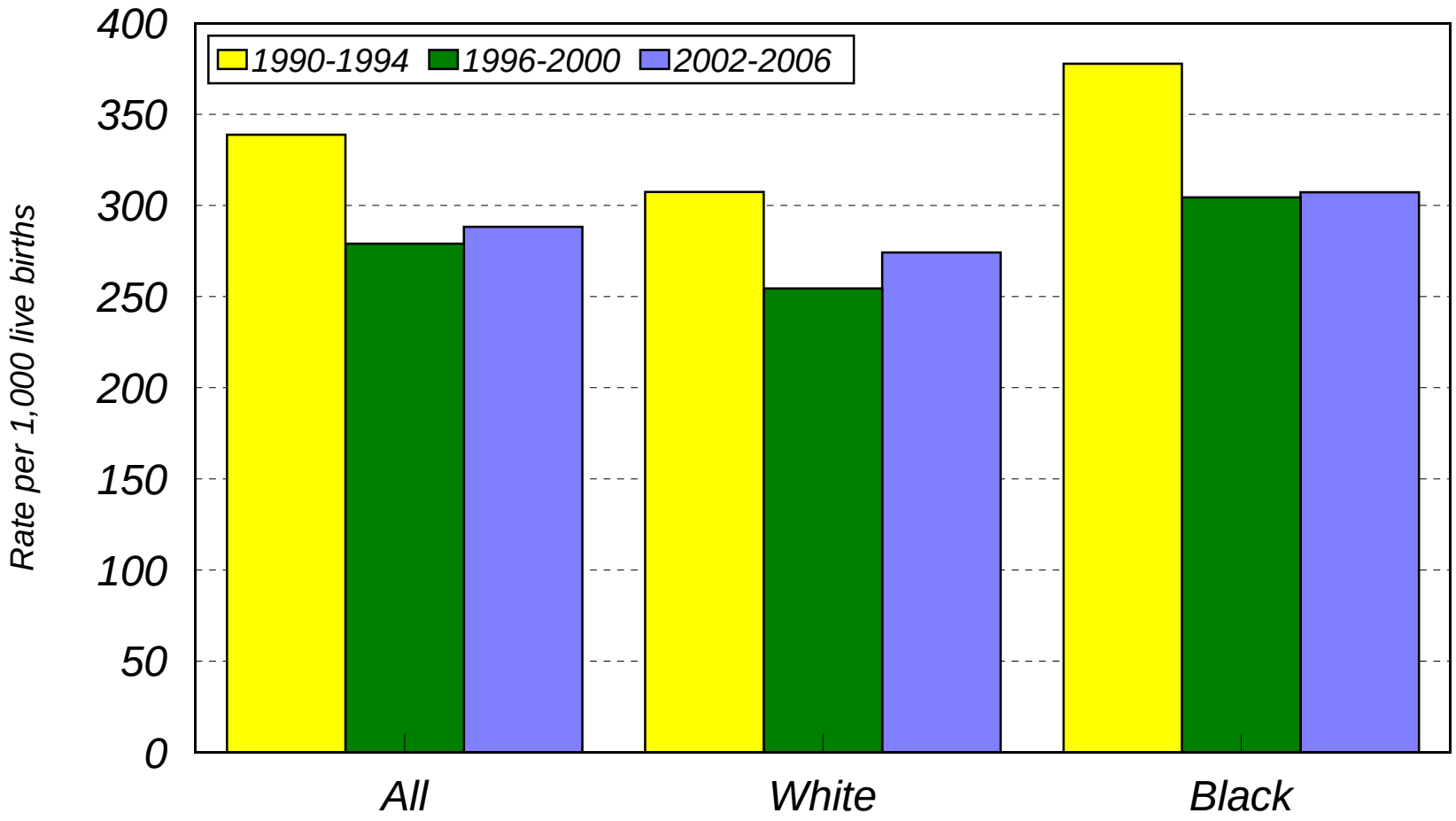
Note: Low Birth Weight is less than 2,500 grams.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 27-29

Figure 46

Infant Mortality Rates of Very Low Birth Weight Infants By Race of Mother

Marion County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



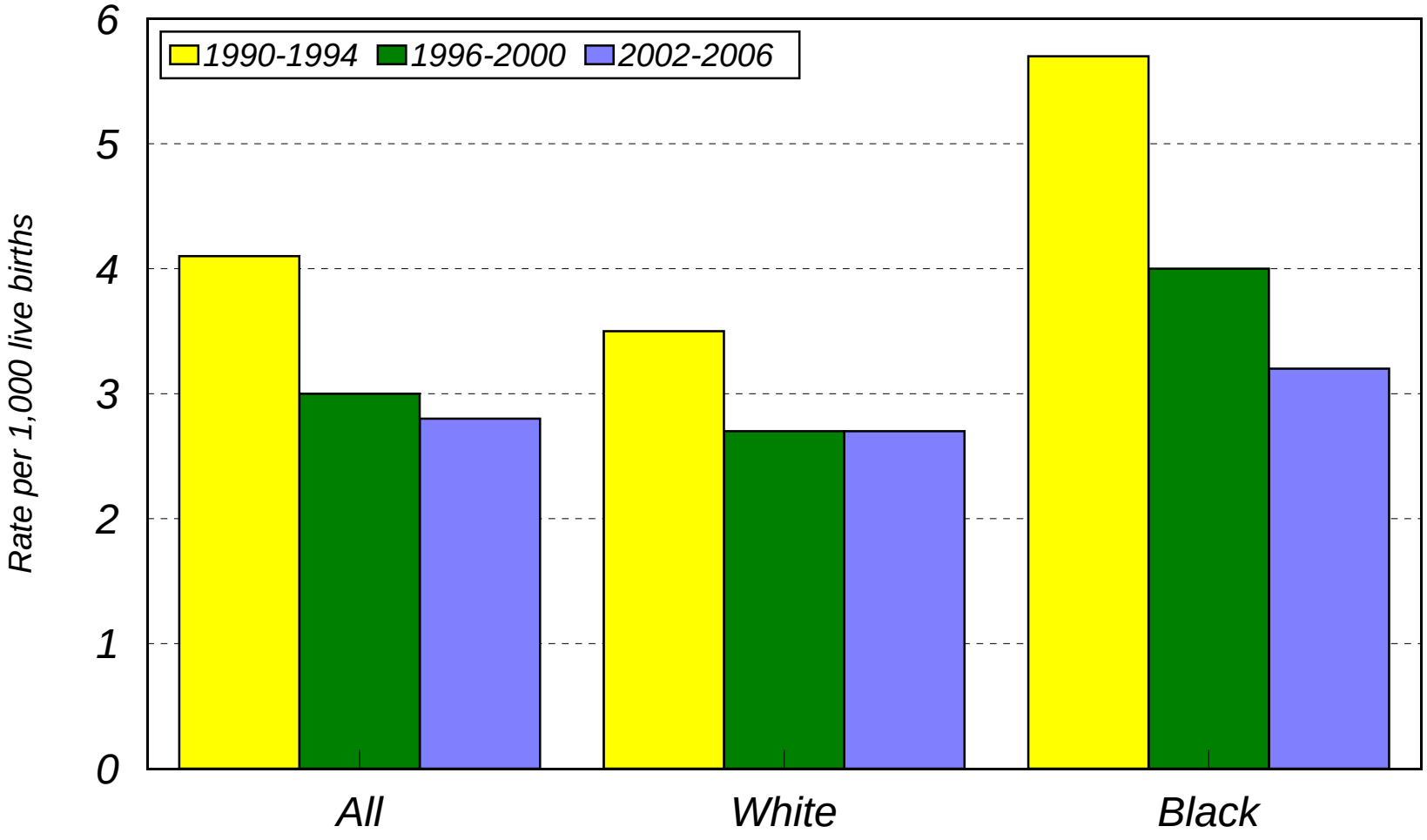
Note: Very Low Birth Weight is less than 1,500 grams.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 27-29

Figure 47

Infant Mortality Rates of Normal Birth Weight Infants By Race of Mother

Marion County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



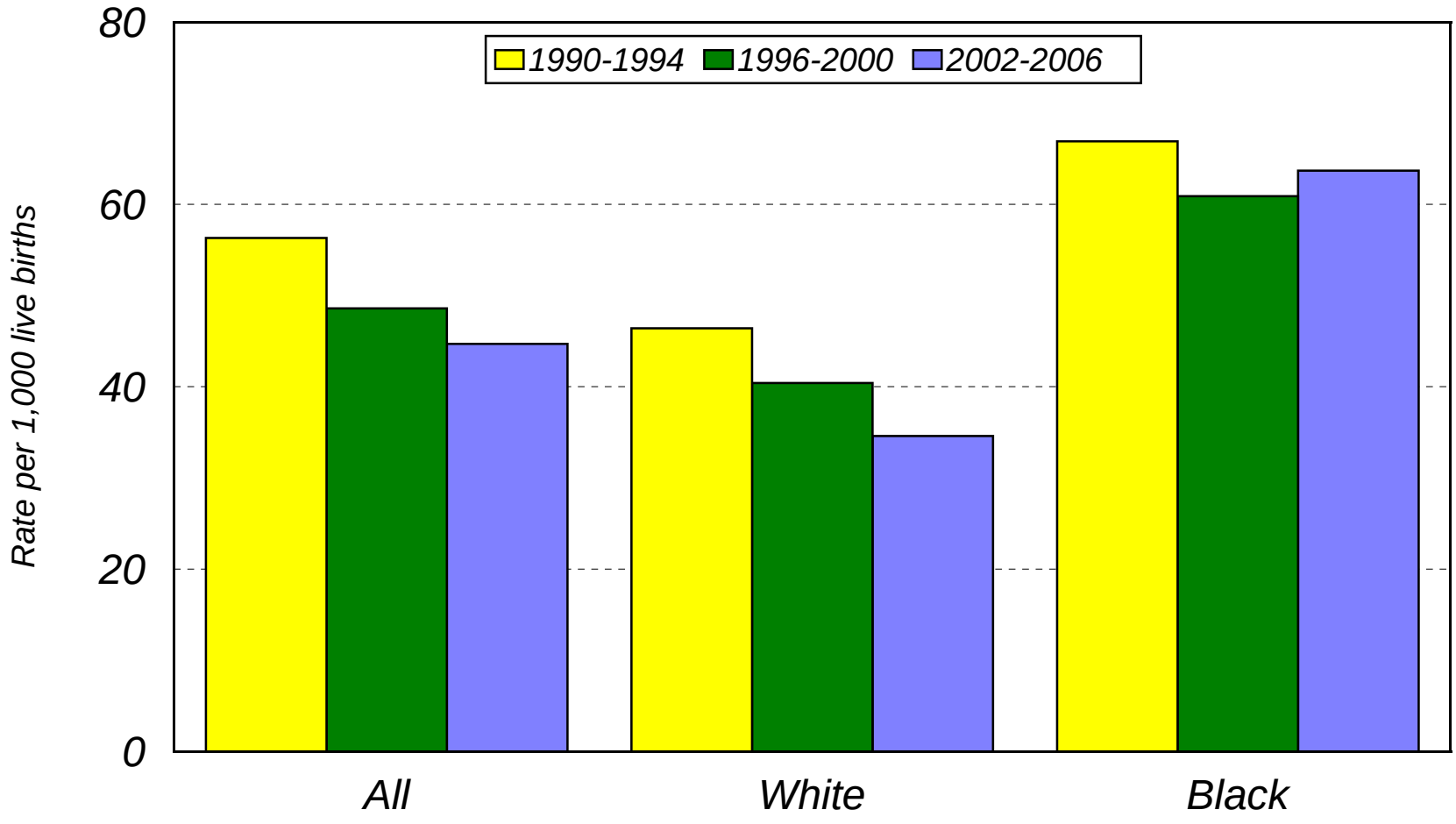
Note: Normal Birth Weight is 2,500 grams or higher.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 27-29

Figure 48

Infant Mortality Rates of Preterm Infants By Race of Mother

Marion County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



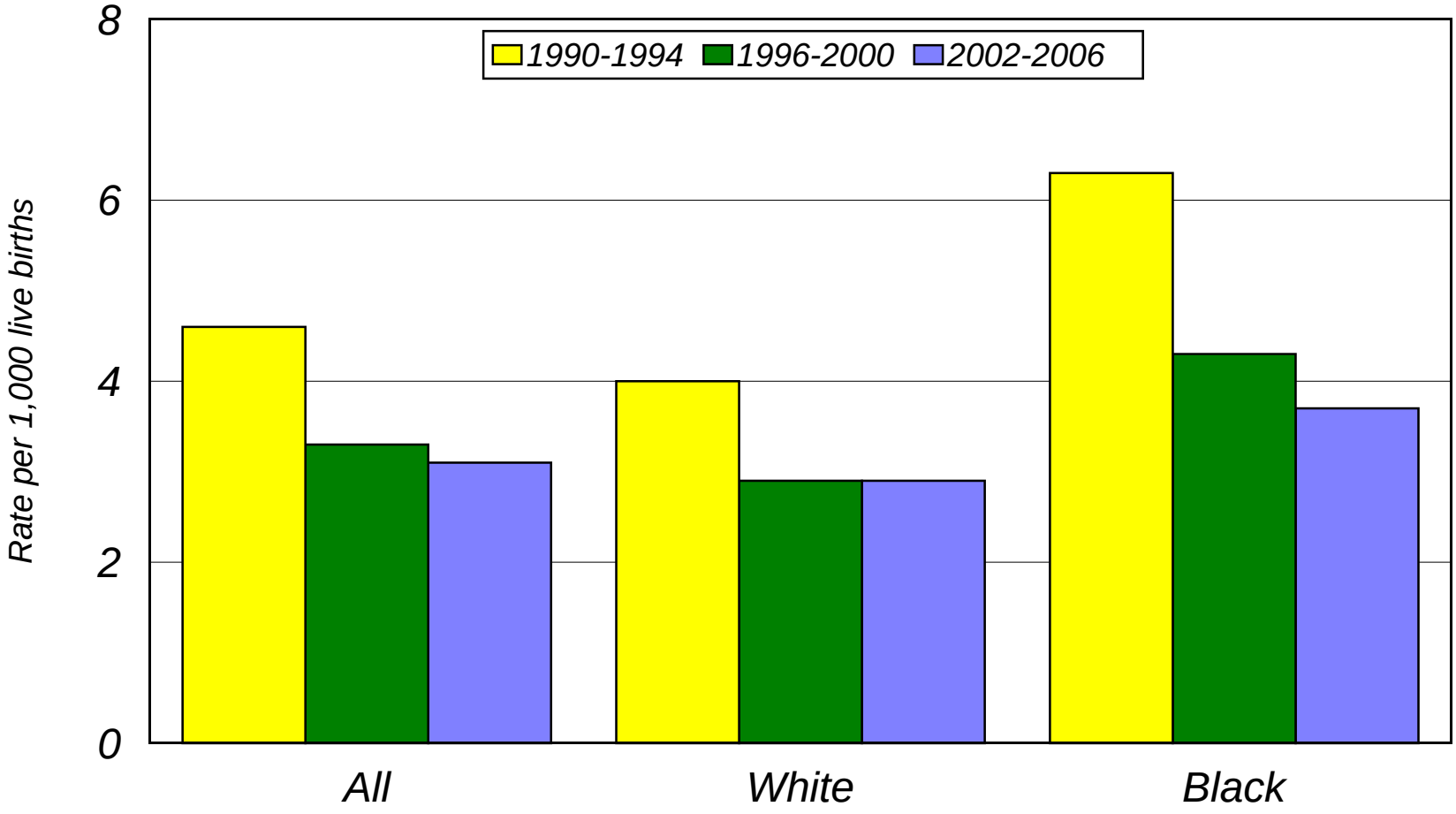
Note: Preterm is less than 37 weeks.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 27-29

Figure 49

Infant Mortality Rates of Term Infants By Race of Mother

Marion County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



Note: Term is 37 completed weeks of gestation or more.

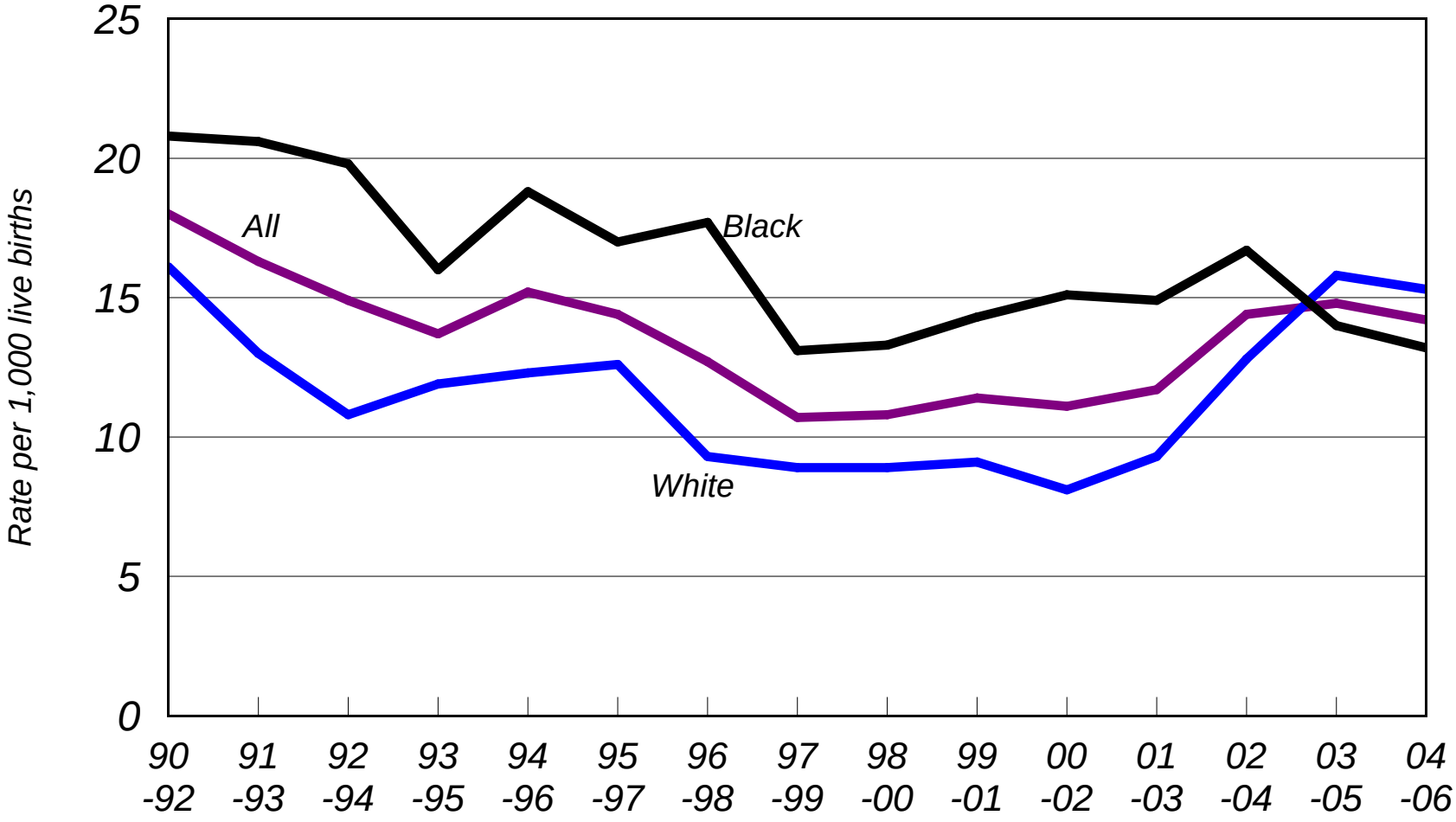
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 27-29

Figure 50

Infant Mortality Rates for Teen Mothers By Race

Three-year Moving Averages

Marion County, Indiana, 1990-2006 Linked Files



Note: Teen mothers are under 20 years of age.

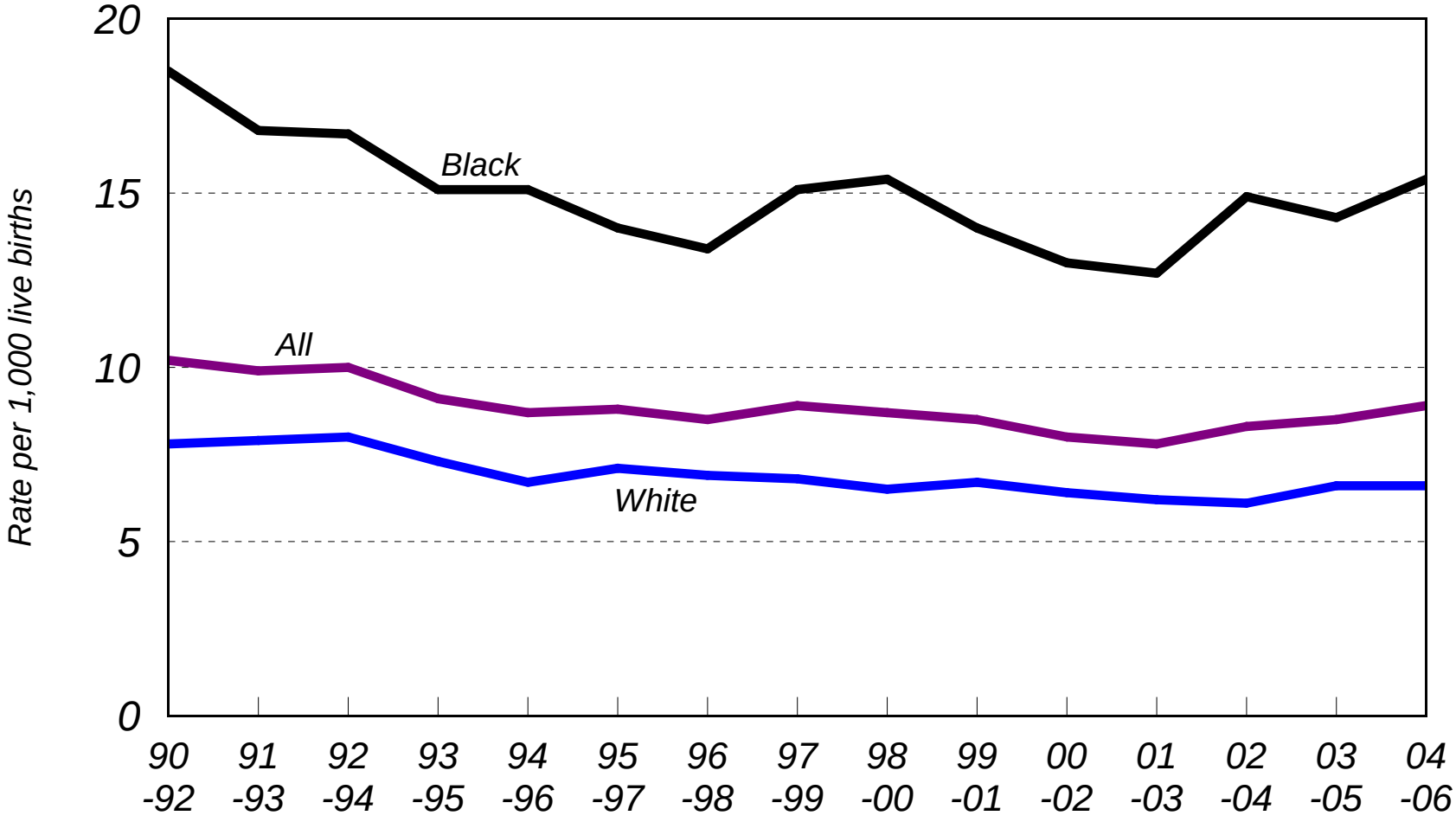
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables23-25

Figure 51

Infant Mortality Rates for Adult Mothers By Race

Three-year Moving Averages

Marion County, Indiana, 1990-2006 Linked Files



Note: Adult mothers are 20 years of age or older.

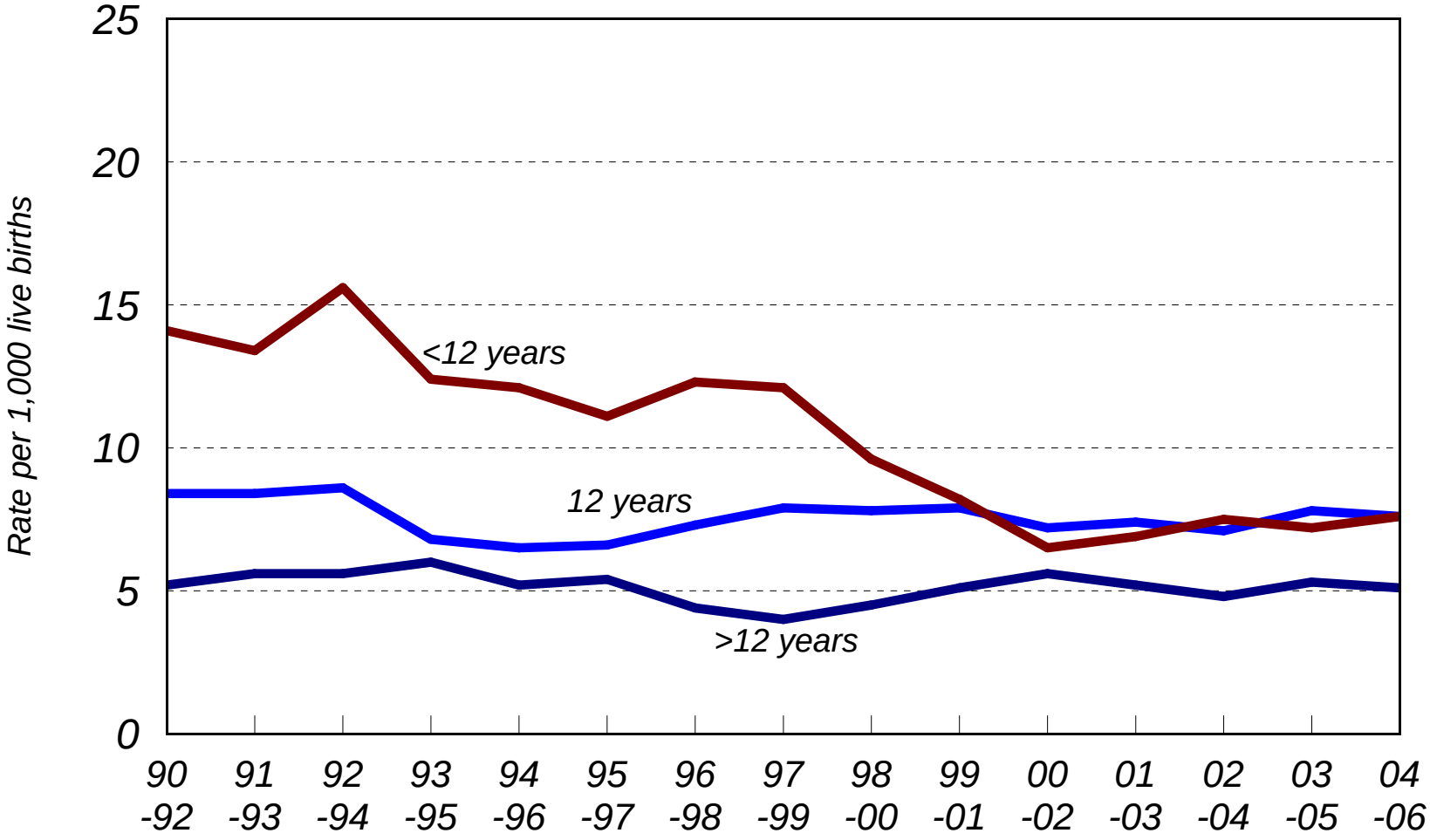
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables23-25

Figure 52

Infant Mortality Rates for Whites By Education of Mother

Three-year Moving Averages

Marion County, Indiana, 1990-2006 Linked Files



Note: Among adult (20+ years) mothers

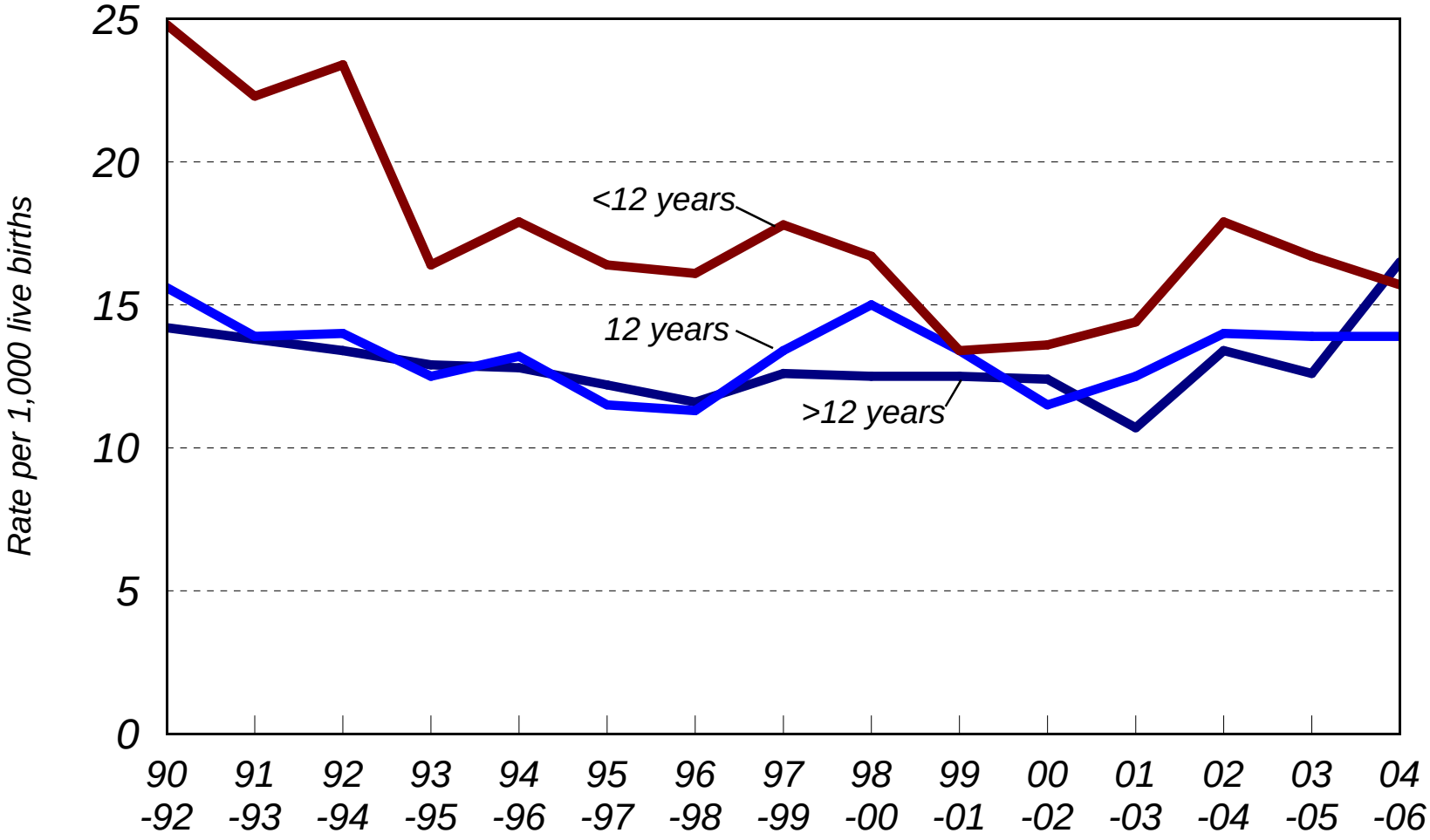
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 24

Figure 53

Infant Mortality Rates for Blacks By Education of Mother

Three-year Moving Averages

Marion County, Indiana, 1990-2006 Linked Files



Note: Among adult (20+ years) mothers

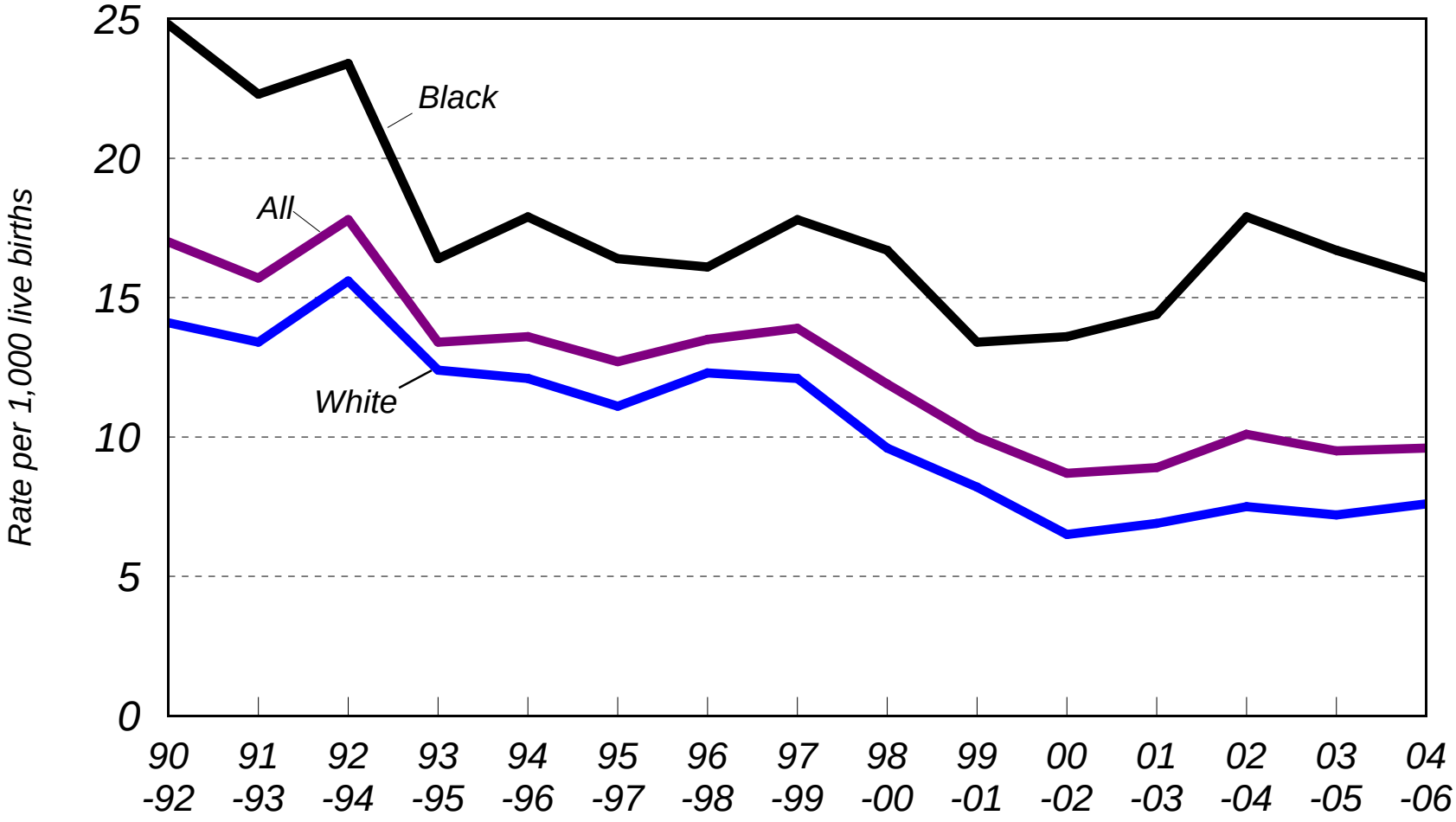
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 24

Figure 54

Infant Mortality Rates for Mothers With Less Than 12 years of Education By Race

Three-year Moving Averages

Marion County, Indiana, 1990-2006 Linked Files



Note: Among adult (20+ years) mothers

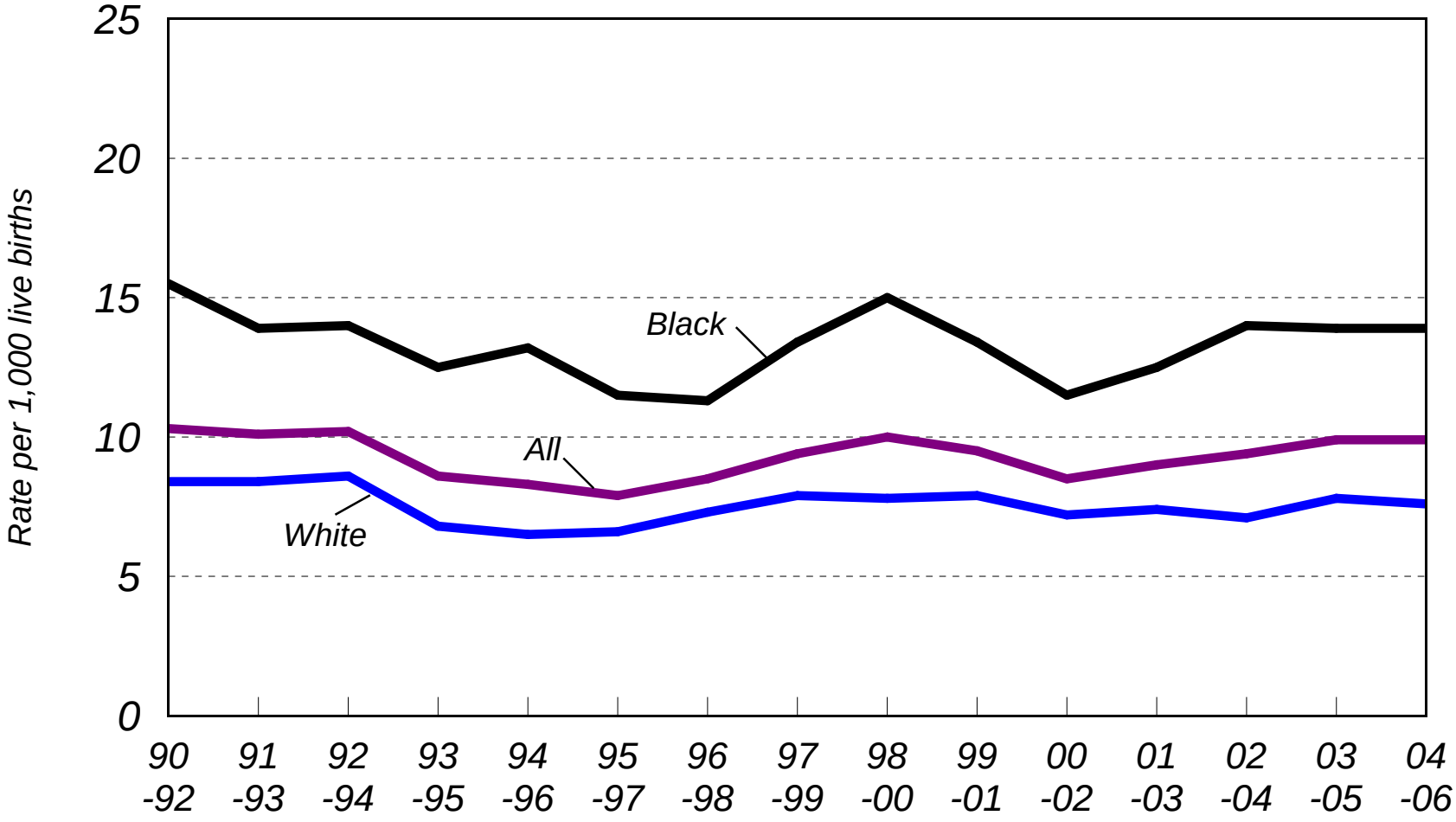
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 23-25

Figure 55

Infant Mortality Rates for Mothers With 12 years of Education By Race

Three-year Moving Averages

Marion County, Indiana, 1990-2006 Linked Files

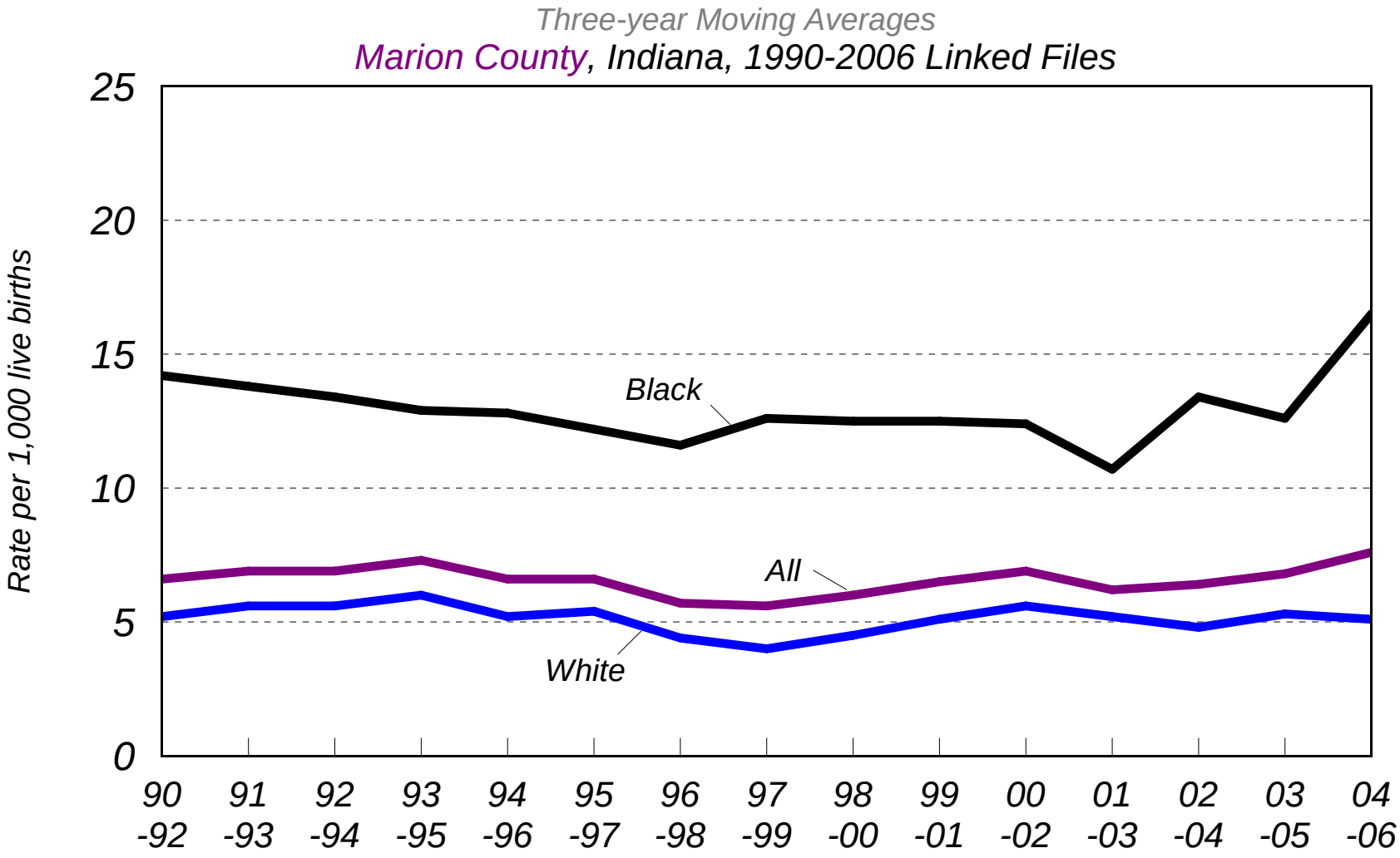


Note: Among adult (20+ years) mothers

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 23-25

Figure 56

Infant Mortality Rates for Mothers With More Than 12 years of Education By Race



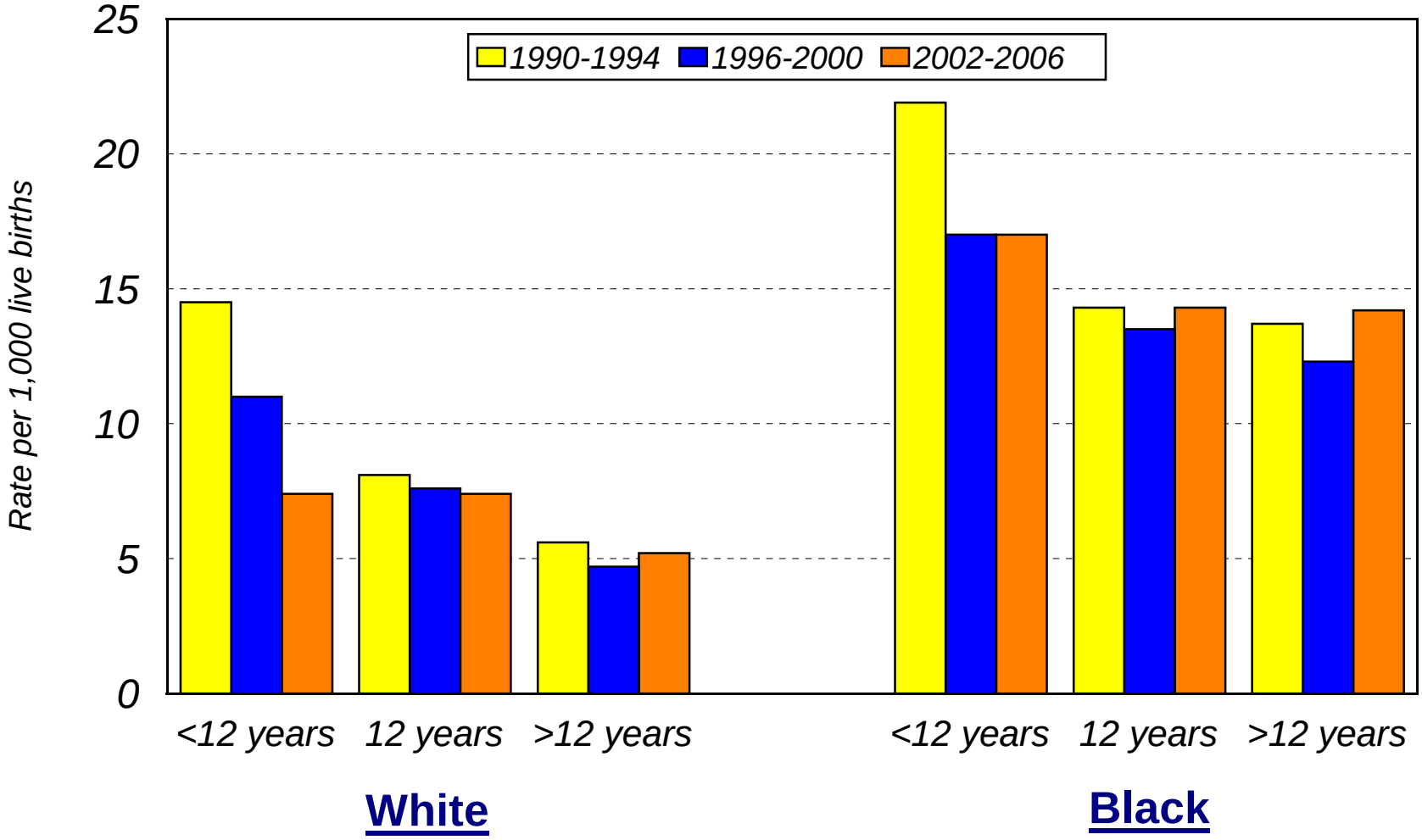
Note: Among adult (20+ years) mothers

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 23-25

Figure 57

Infant Mortality Rates by Education and Race of Mother

Marion County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files

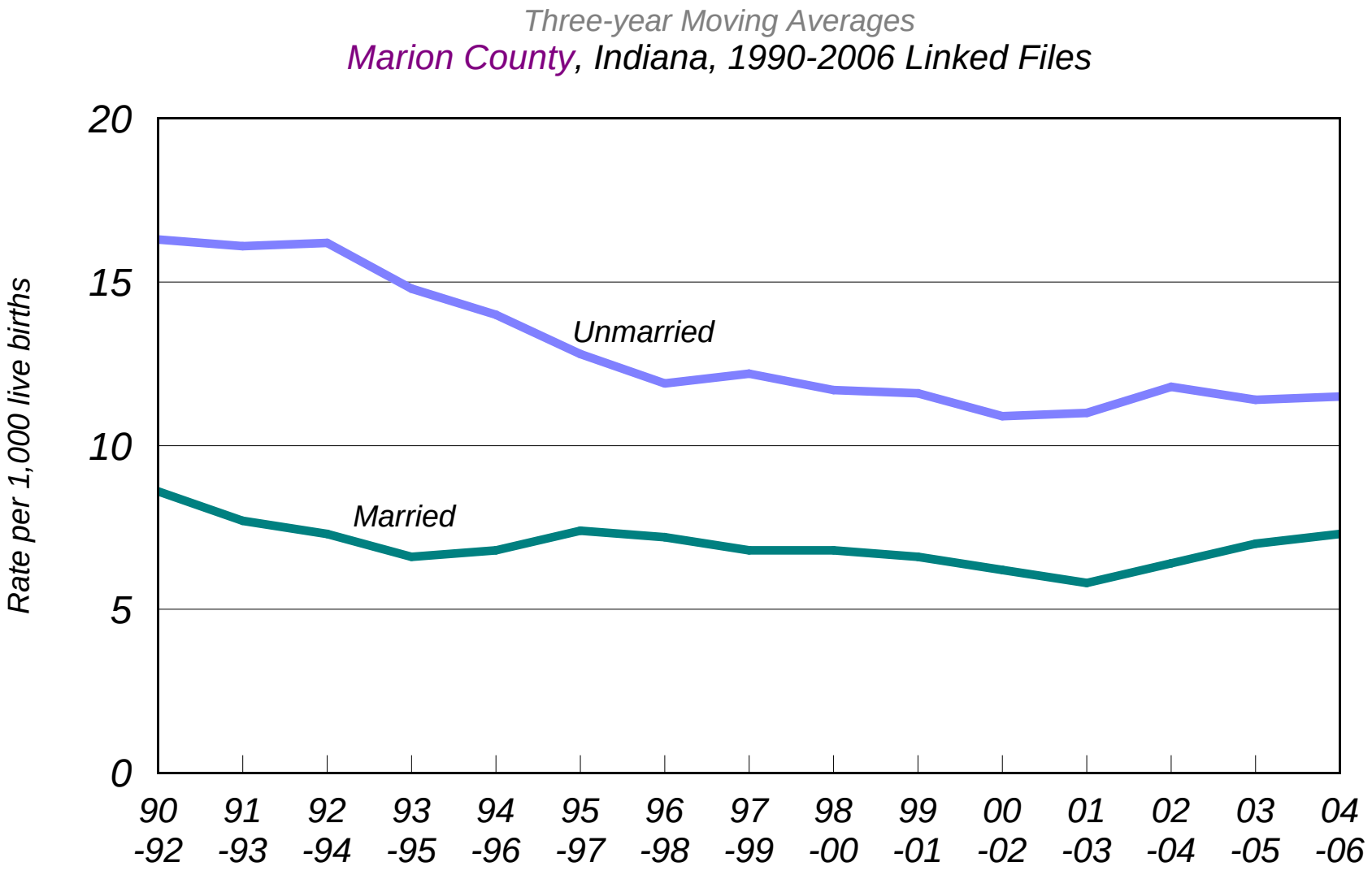


Note: Among adult (20+ years) mothers

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 28-29

Figure 58

Infant Mortality Rates by Marital Status of Mother



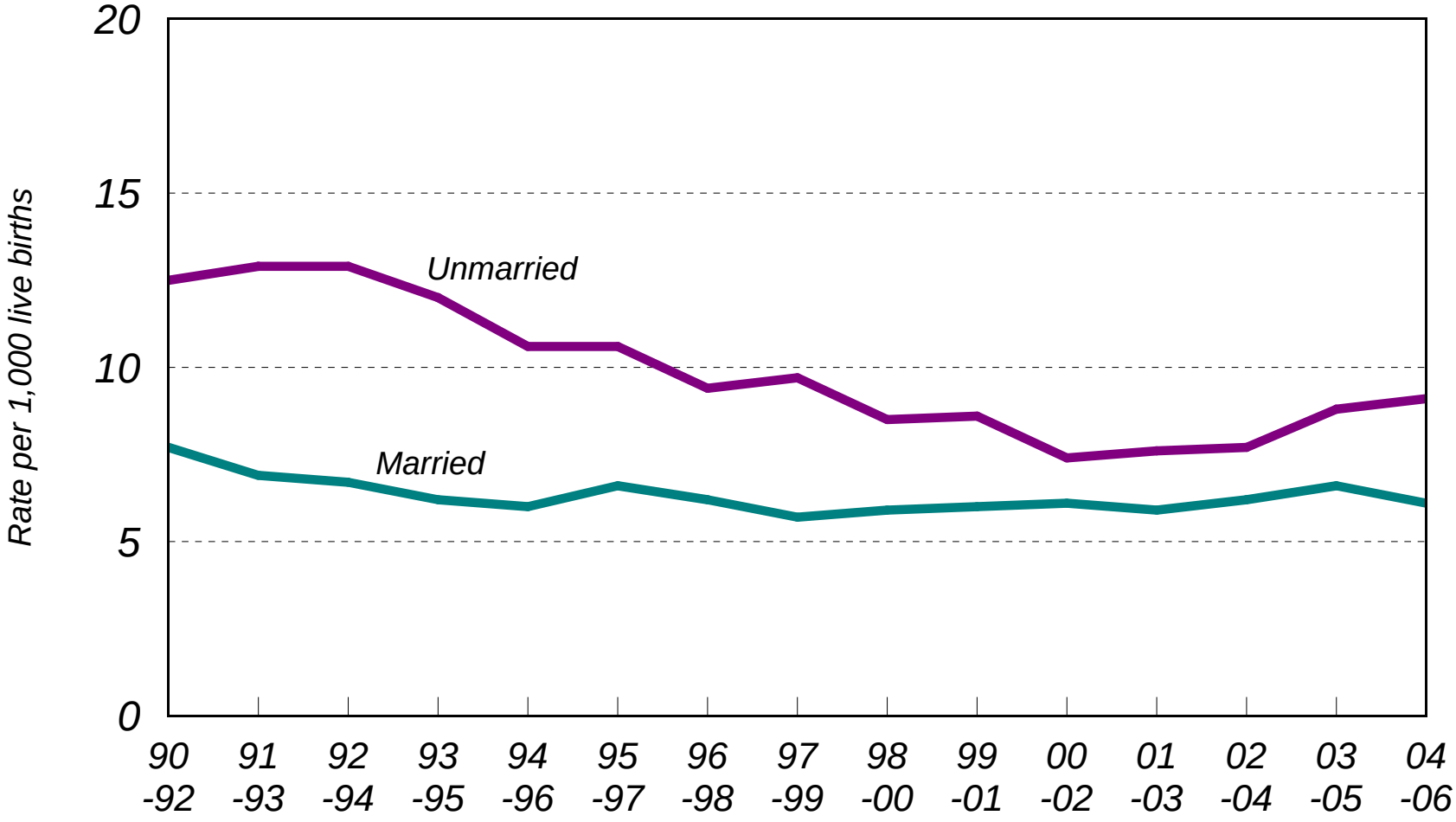
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 23

Figure 59

Infant Mortality Rates of Whites By Marital Status of Mother

Three-year Moving Averages

Marion County, Indiana, 1990-2006 Linked Files



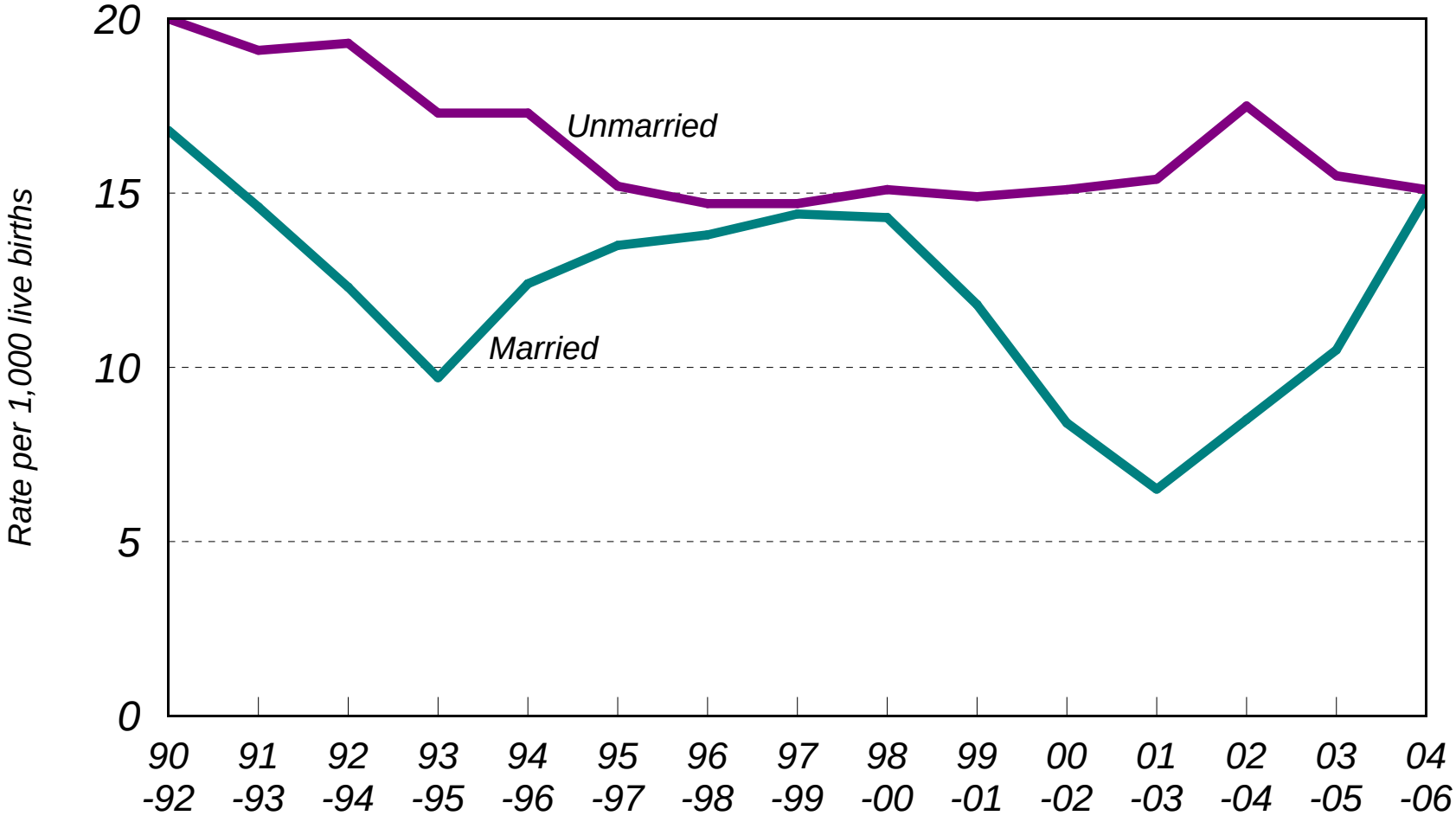
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 24

Figure 60

Infant Mortality Rates of Blacks By Marital Status of Mother

Three-year Moving Averages

Marion County, Indiana, 1990-2006 Linked Files

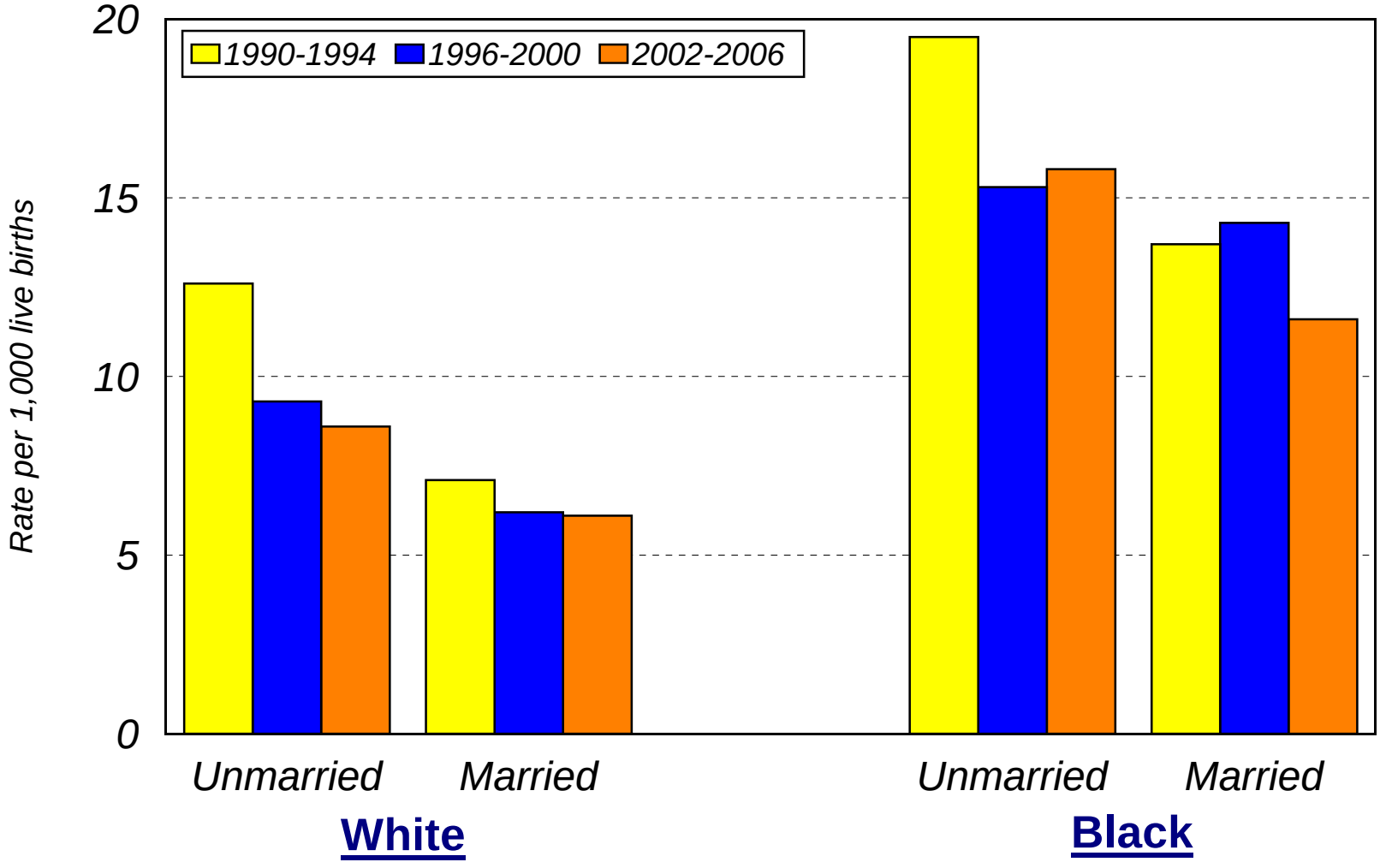


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 25

Figure 61

Infant Mortality Rates by Marital Status and Race of Mother

Marion County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files

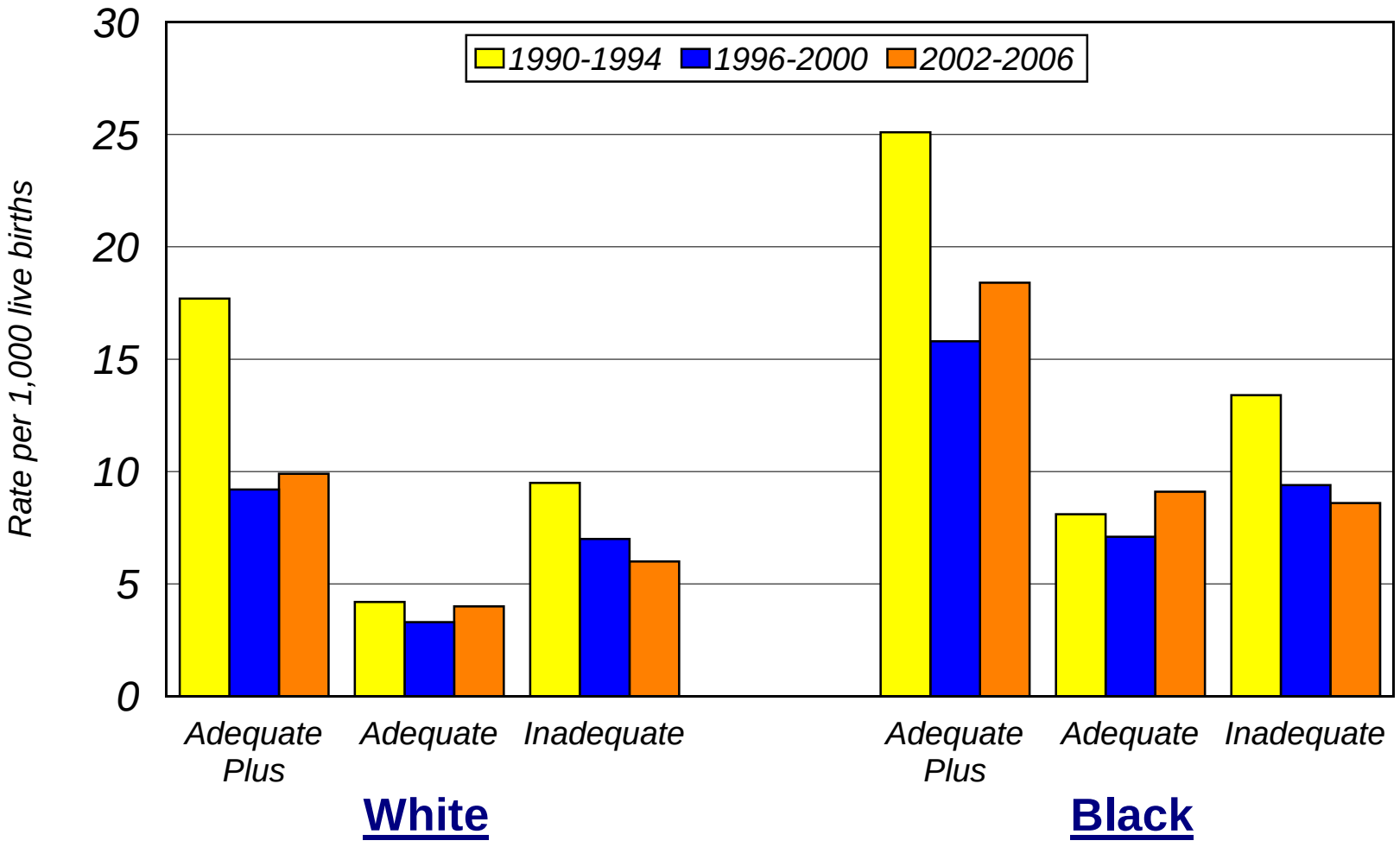


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 28-29

Figure 62

Infant Mortality Rates by Adequacy of Prenatal Care and Race of Mother

Marion County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



Note: Adequacy of prenatal care is based on Kotelchuck Index.

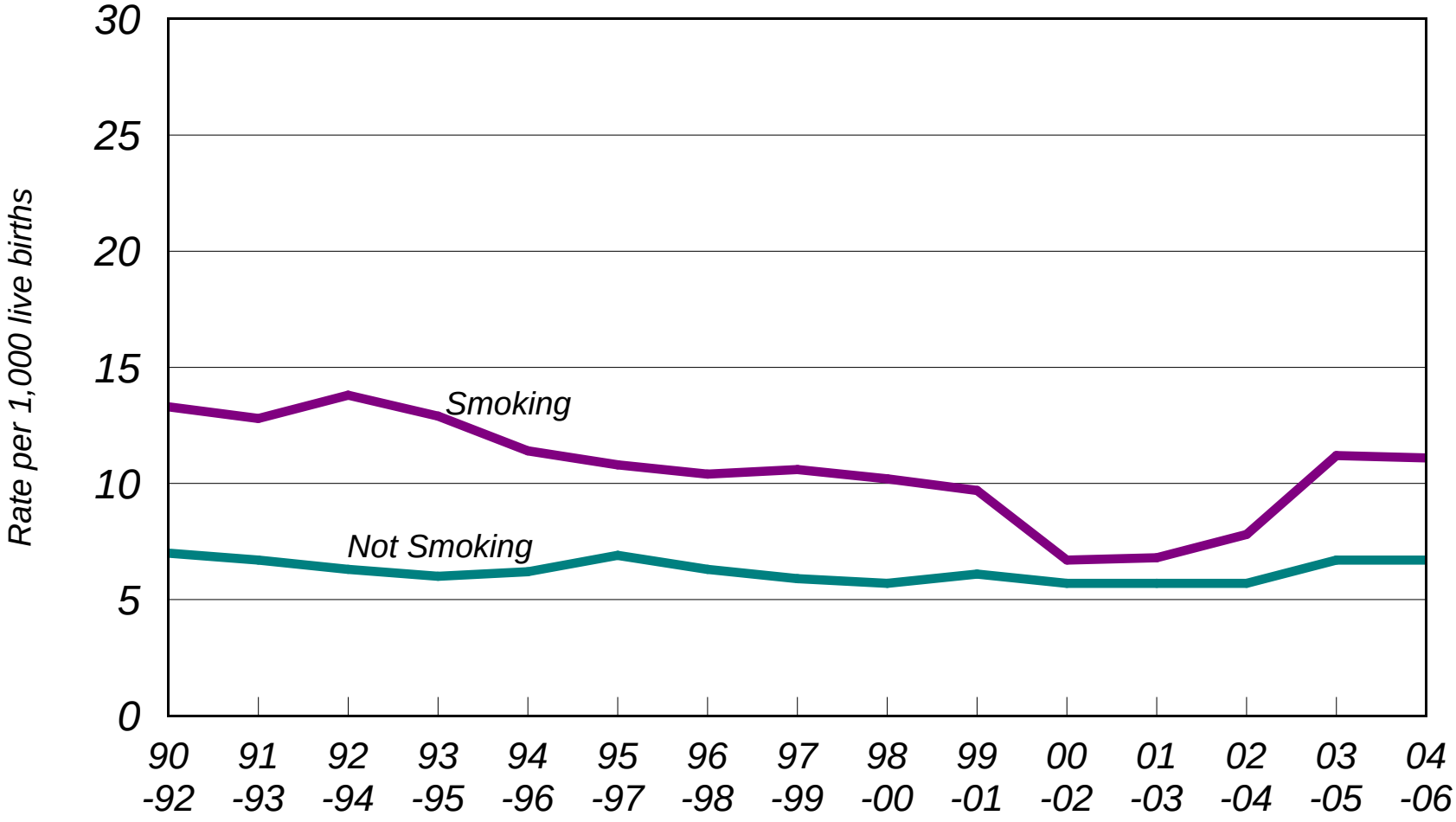
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 28-29

Figure 63

Infant Mortality Rates of Whites By Smoking Status of Mother

Three-year Moving Averages

Marion County, Indiana, 1990-2006 Linked Files



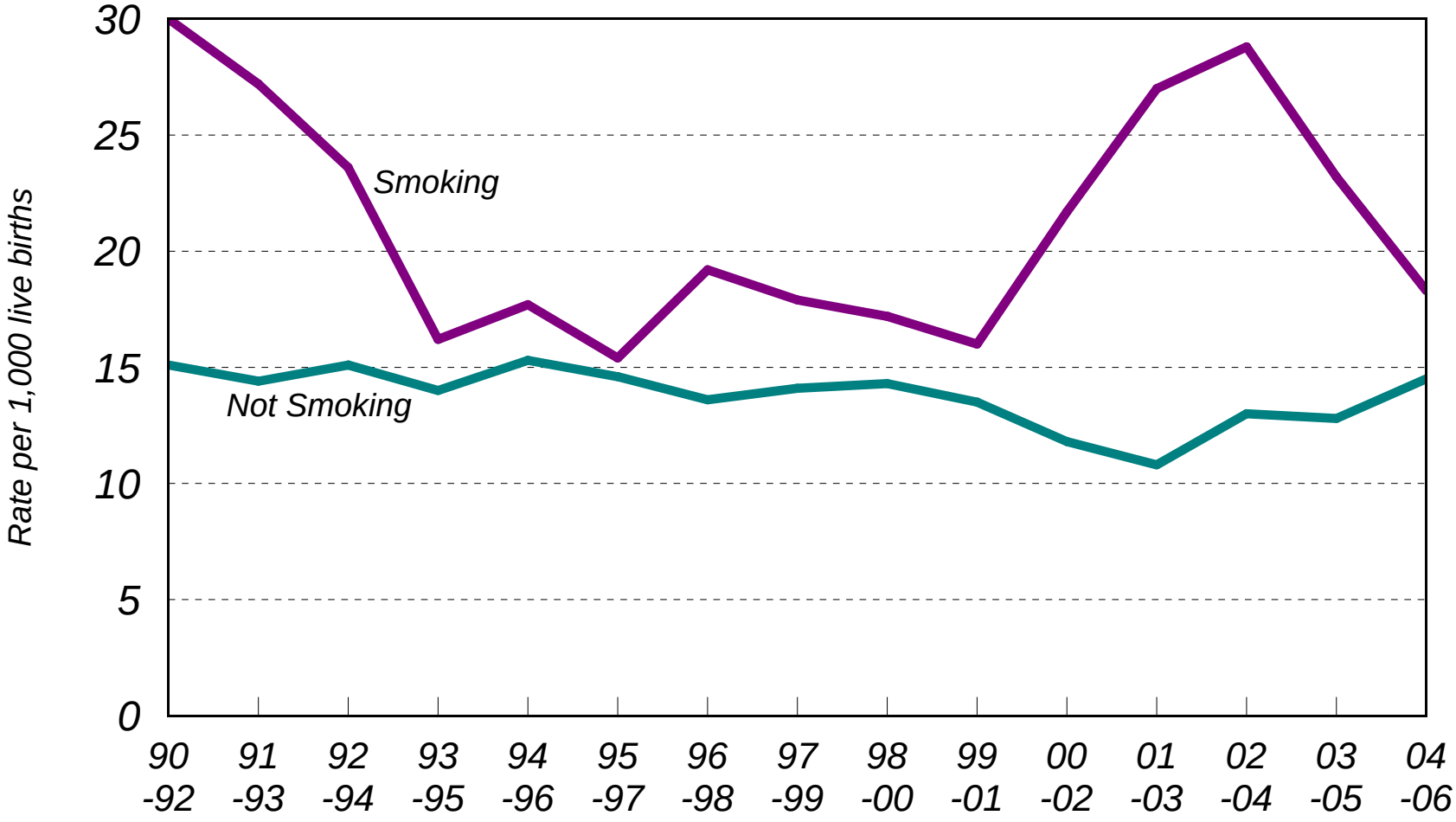
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 24

Figure 64

Infant Mortality Rates of Blacks By Smoking Status of Mother

Three-year Moving Averages

Marion County, Indiana, 1990-2006 Linked Files

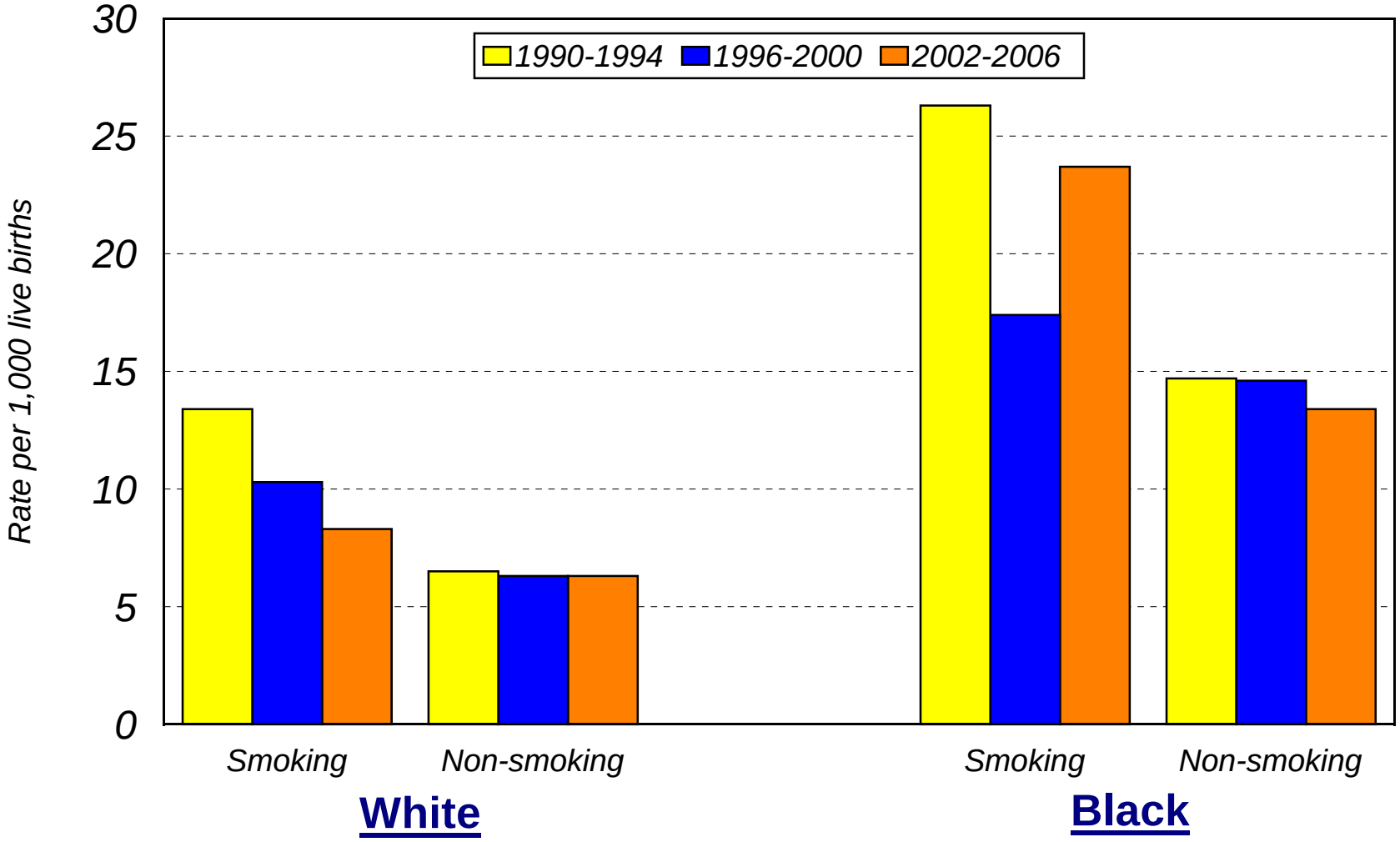


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 25

Figure 65

Infant Mortality Rates by Race and Smoking Status of Mother

Marion County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



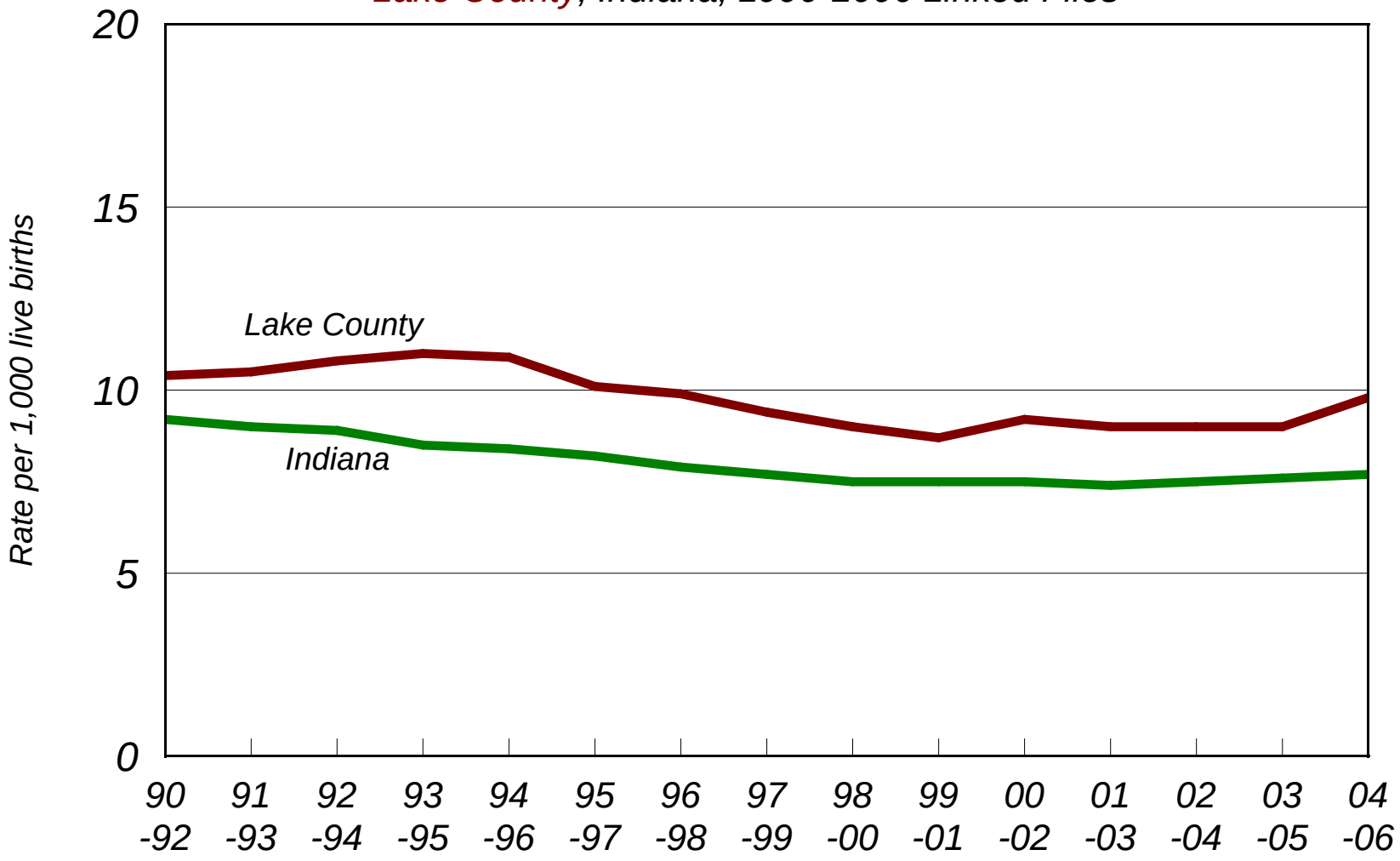
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 28-29

Figure 66

Infant Mortality Rates in Lake County Compared to Indiana

Three-year Moving Averages

Lake County, Indiana, 1990-2006 Linked Files



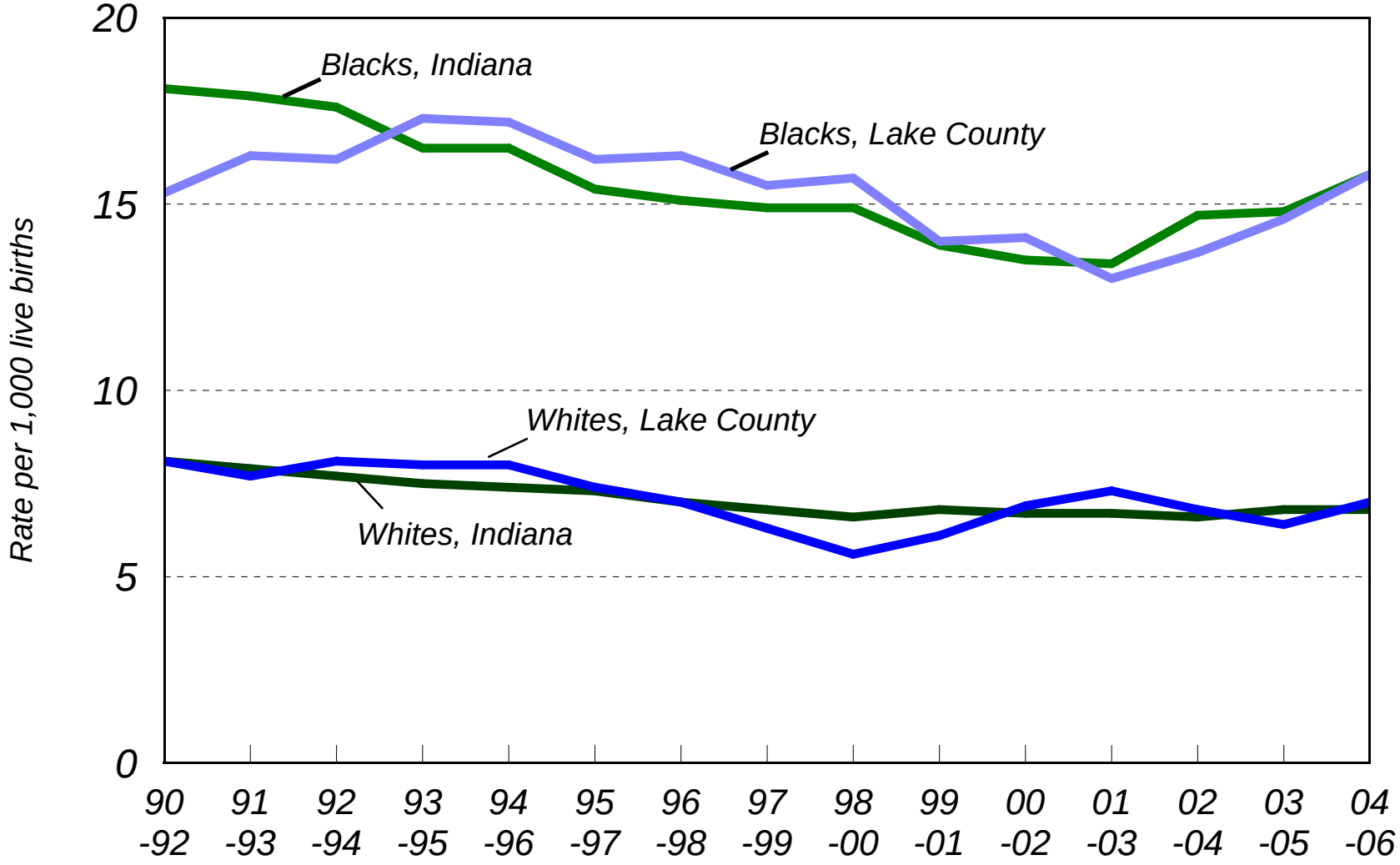
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 1 and 30

Figure 67

Infant Mortality Rates by Race in Lake County Compared to Indiana

Three-year Moving Averages

Lake County, Indiana, 1990-2006 Linked Files

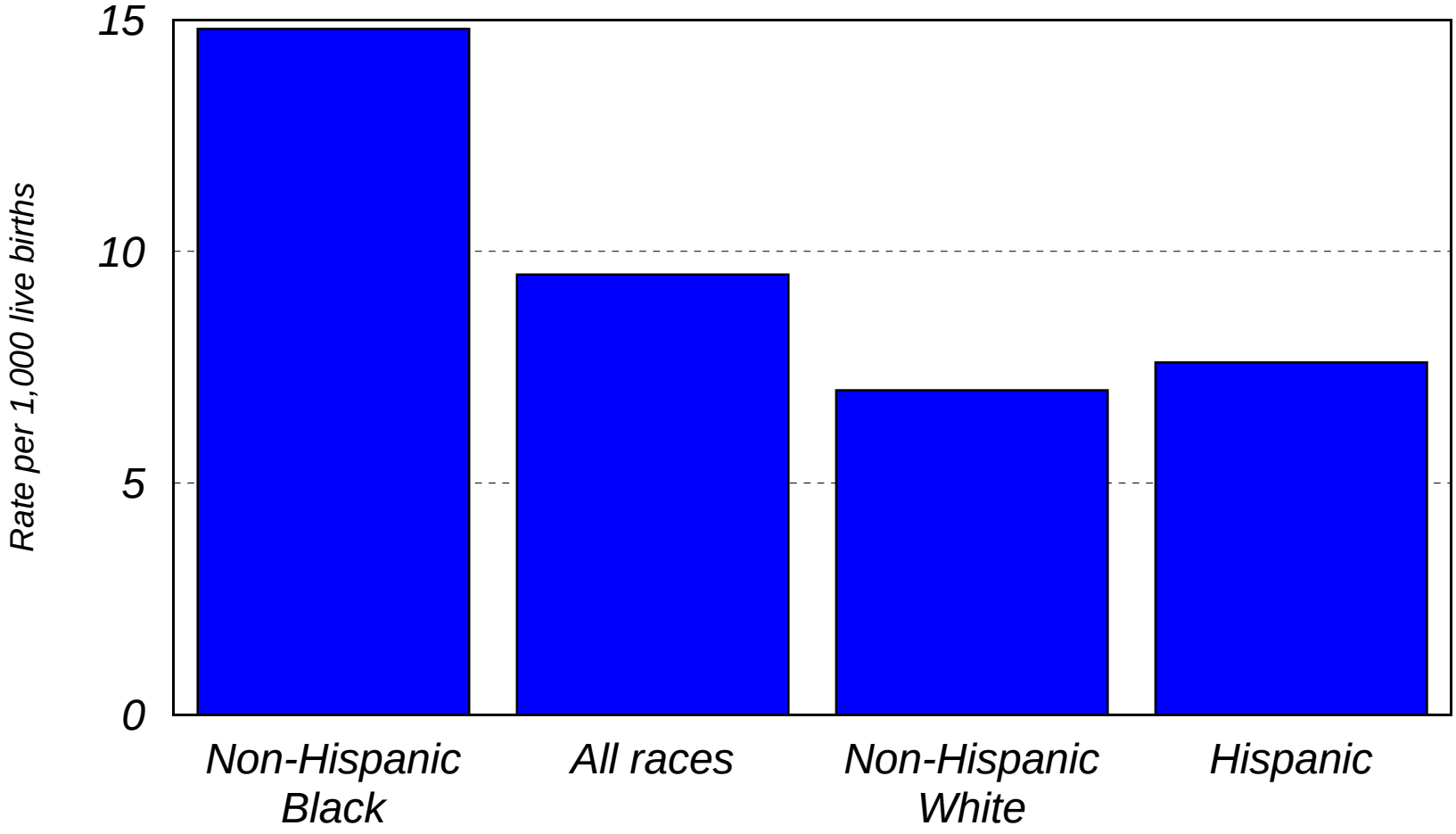


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 1 and 30

Figure 68

Infant Mortality Rates by Race and Hispanic Origin of Mother

Lake County, Indiana, 2002-2006 Linked Files

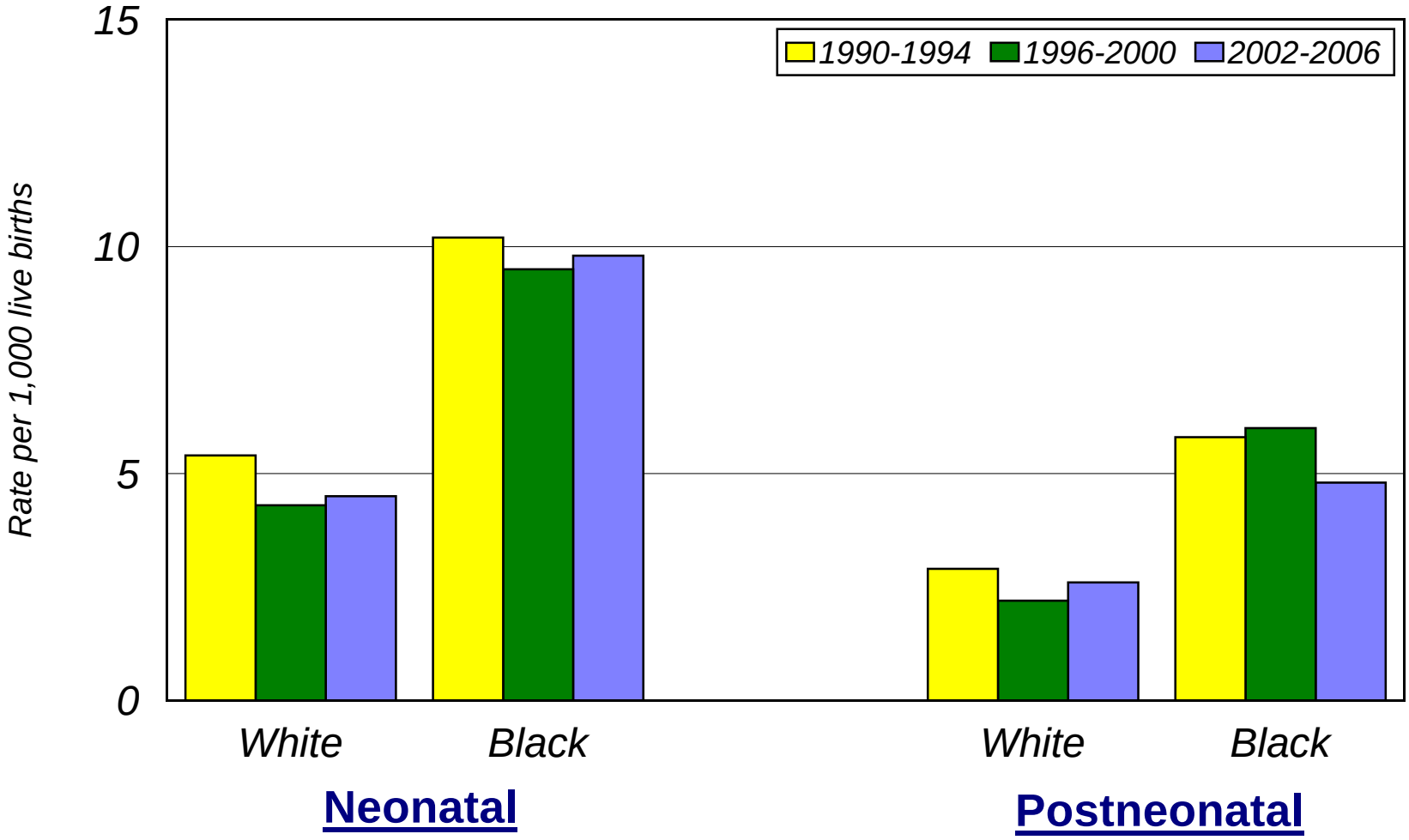


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 34

Figure 69

Neonatal and Postneonatal Mortality Rates by Race of Mother

Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



Note: Neonatal is less than 28 days, and postneonatal is 28 days to under 1year.

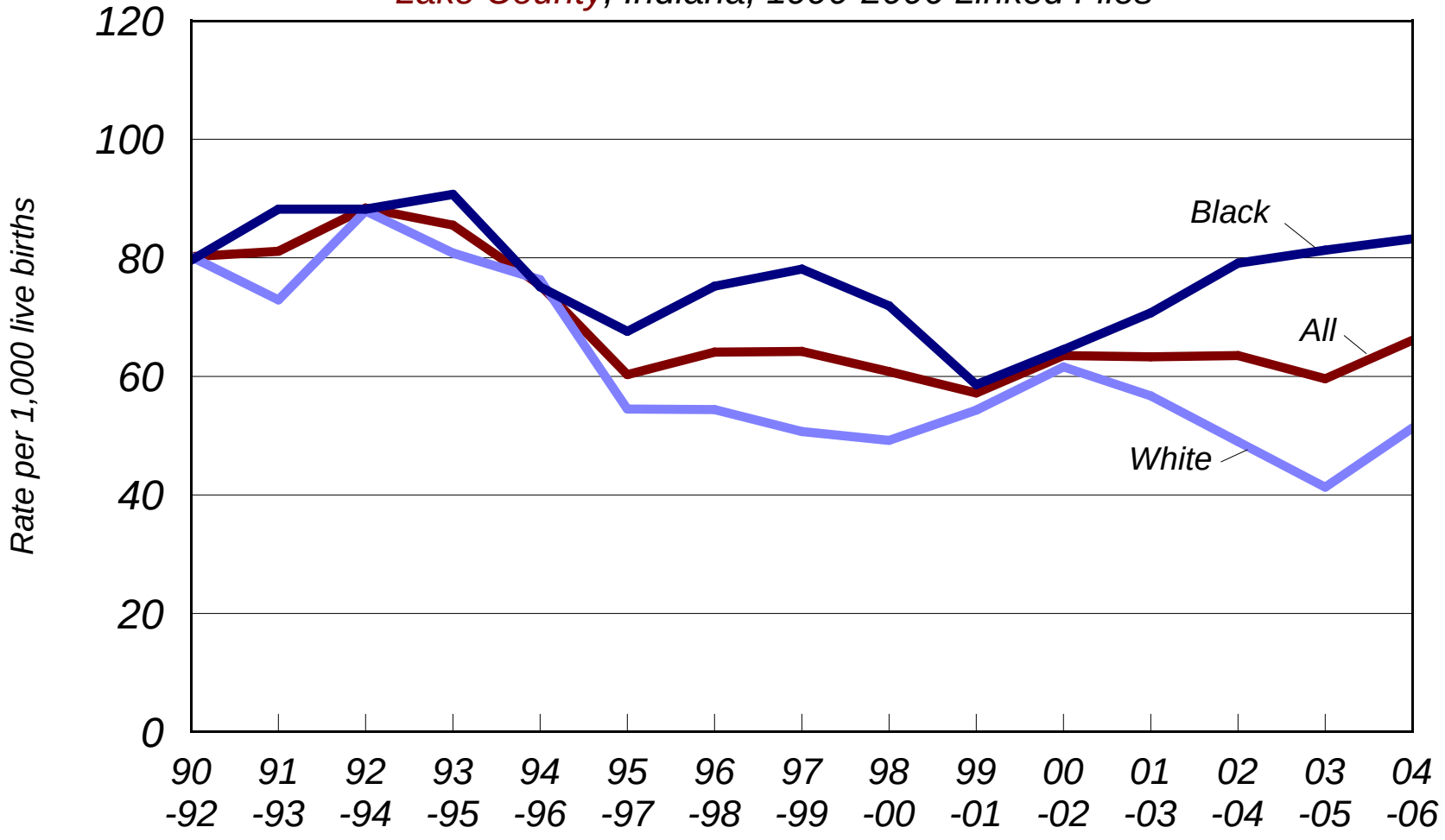
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 34

Figure 70

Infant Mortality Rates of Low Birth Weight Infants By Race of Mother

Three-year Moving Averages

Lake County, Indiana, 1990-2006 Linked Files



Note: Low Birth Weight is less than 2,500 grams.

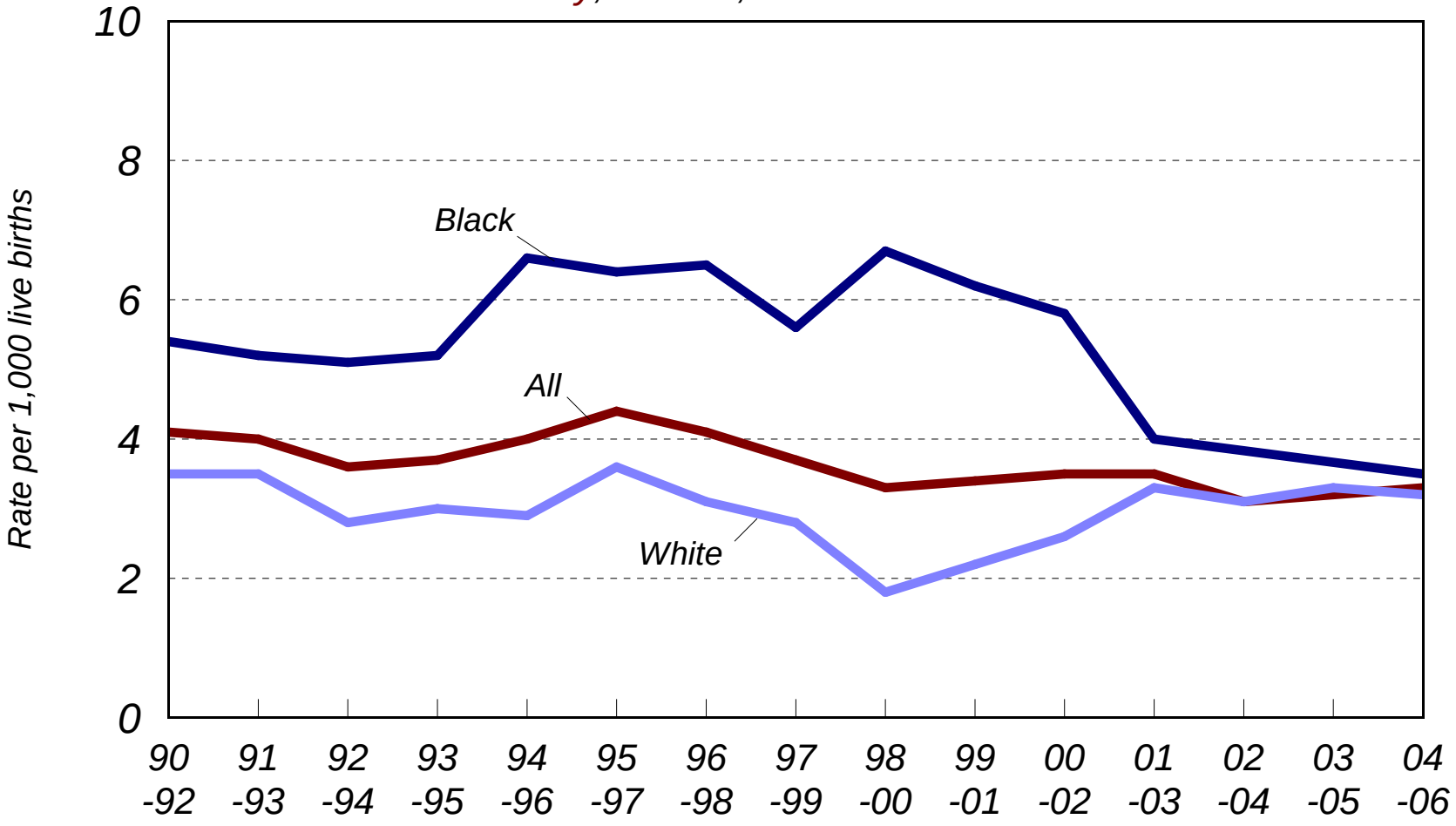
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 31-33

Figure 71

Infant Mortality Rates of Normal Birth Weight Infants By Race of Mother

Three-year Moving Averages

Lake County, Indiana, 1990-2006 Linked Files



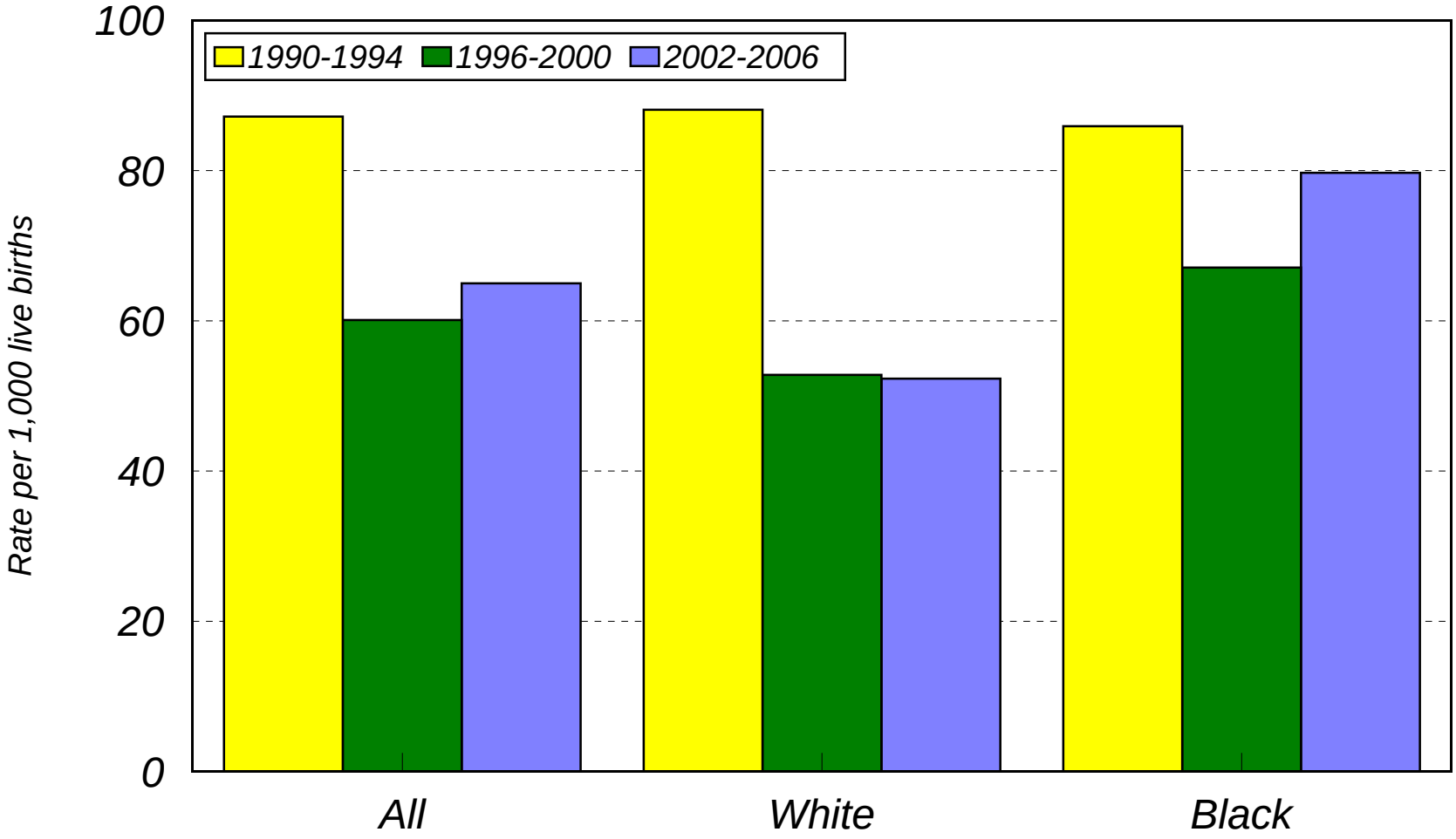
Note: Normal Birth Weight is 2,500 grams or higher.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 31-33

Figure 72

Infant Mortality Rates of Low Birth Weight Infants By Race of Mother

Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



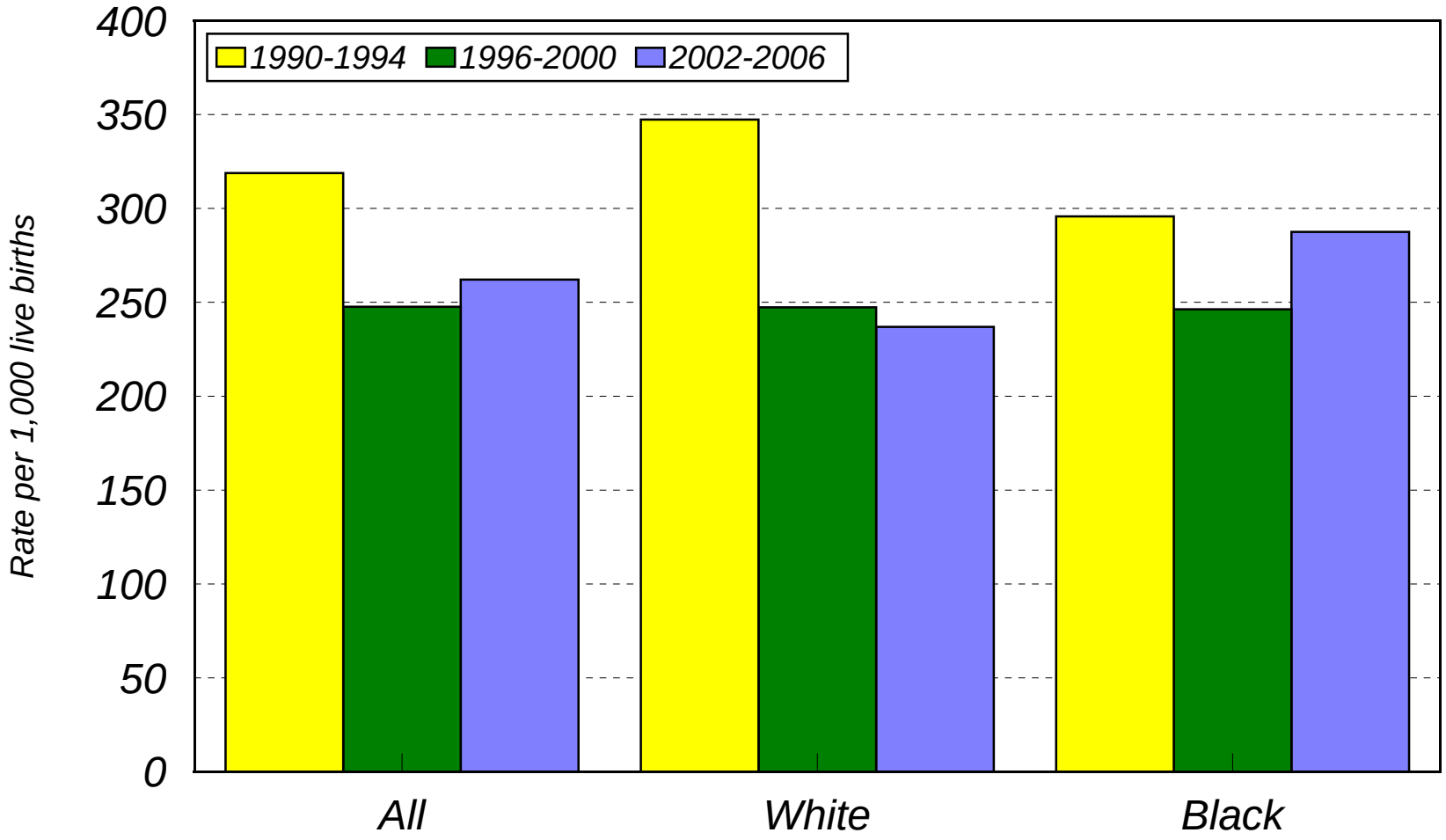
Note: Low Birth Weight is less than 2,500 grams.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 35-37

Figure 73

Infant Mortality Rates of Very Low Birth Weight Infants By Race of Mother

Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



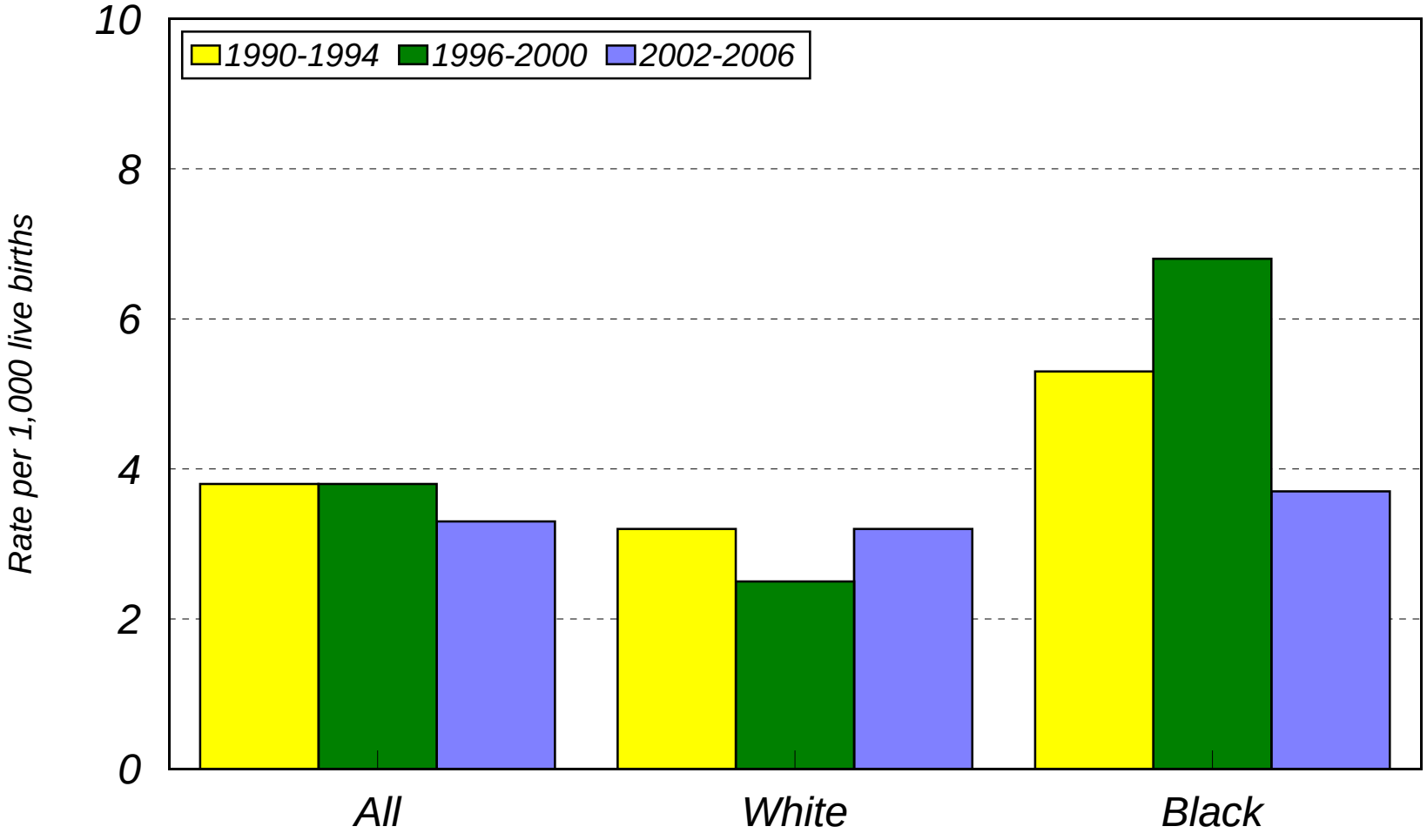
Note: Very Low Birth Weight is less than 1,500 grams.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 35-37

Figure 74

Infant Mortality Rates of Normal Birth Weight Infants By Race of Mother

Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



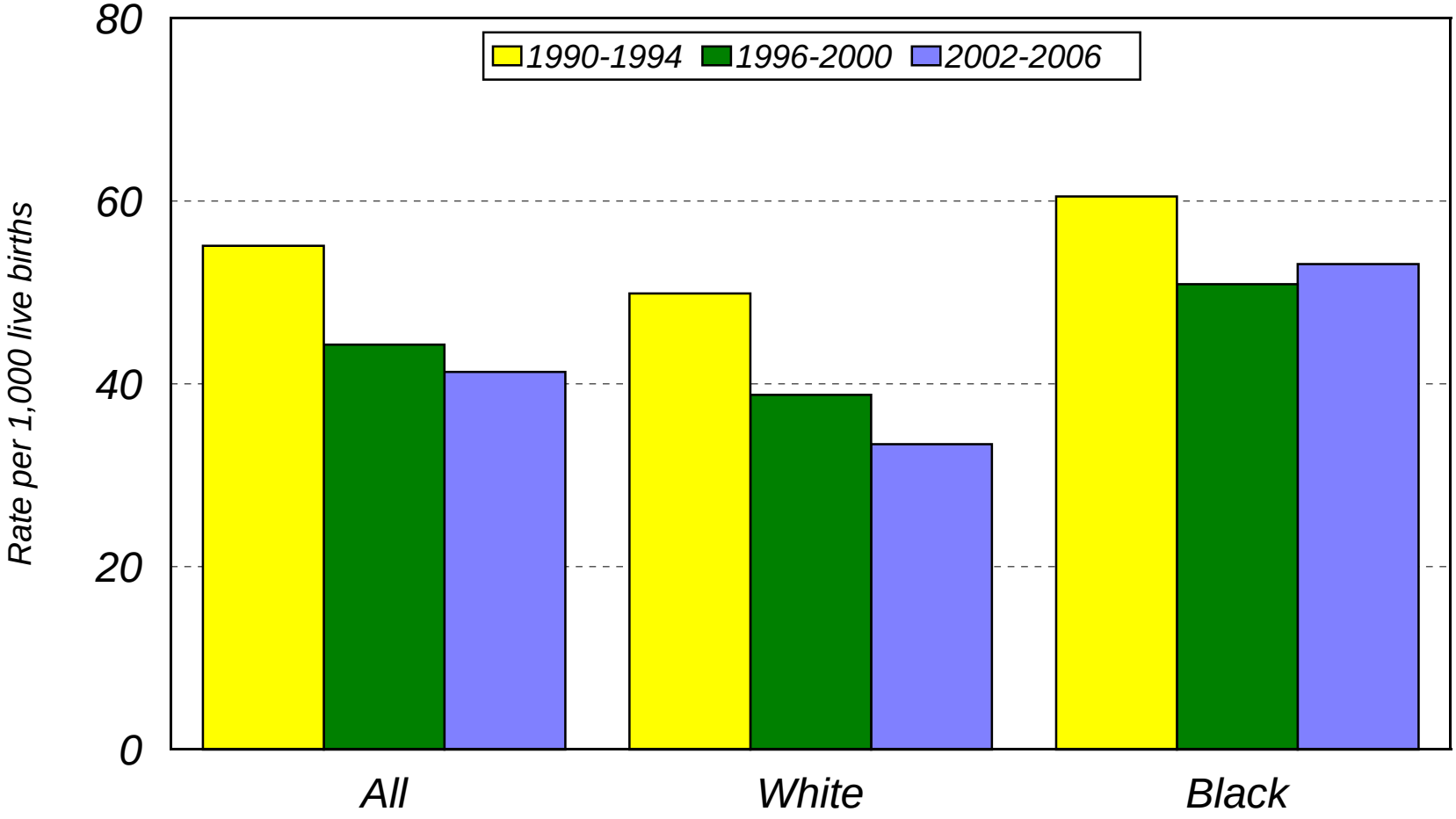
Note: Normal Birth Weight is 2,500 grams or higher.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 35-37

Figure 75

Infant Mortality Rates of Preterm Infants By Race of Mother

Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



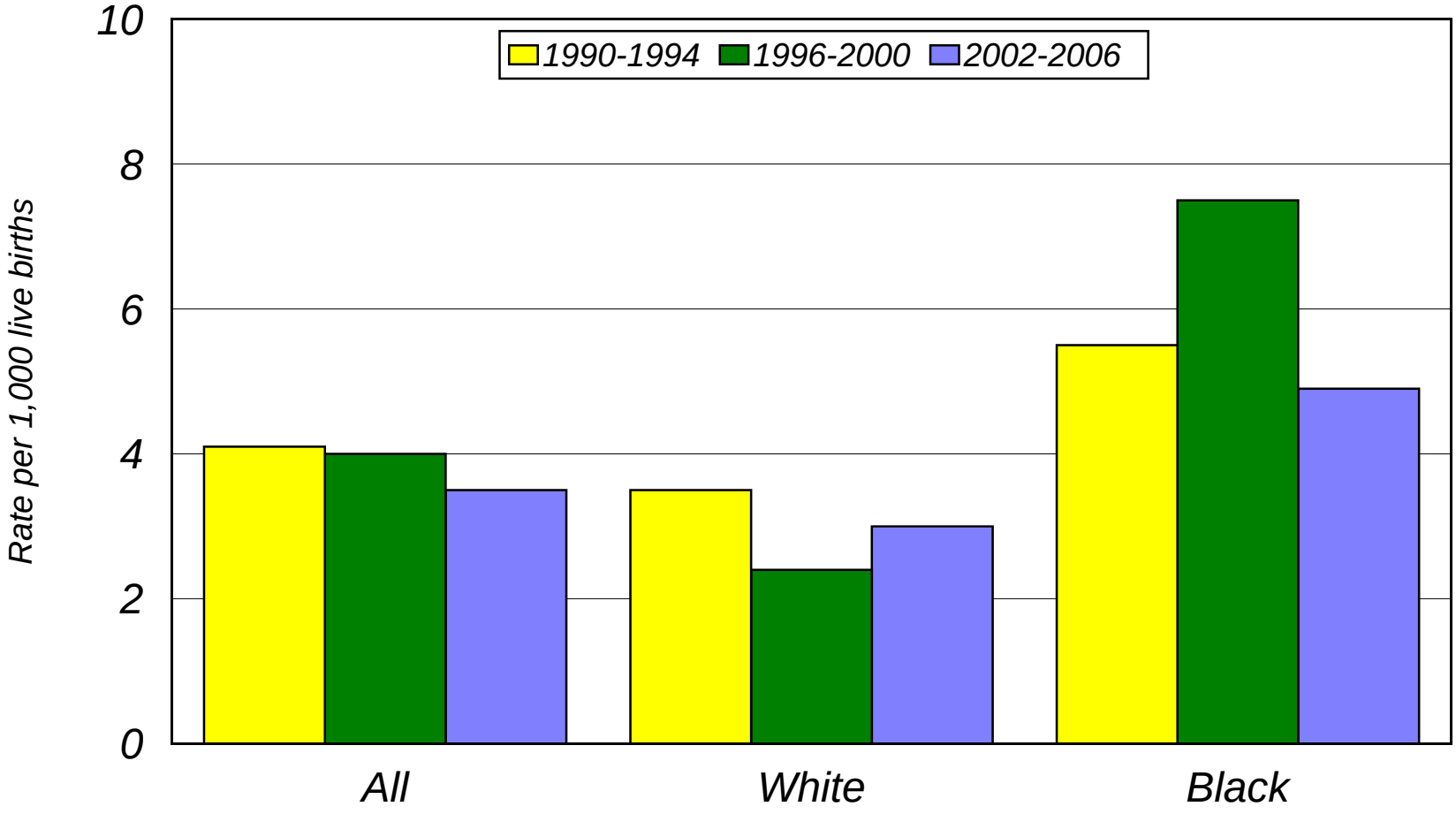
Note: Preterm is less than 37 weeks.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Table 35-37

Figure 76

Infant Mortality Rates of Term Infants By Race of Mother

Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



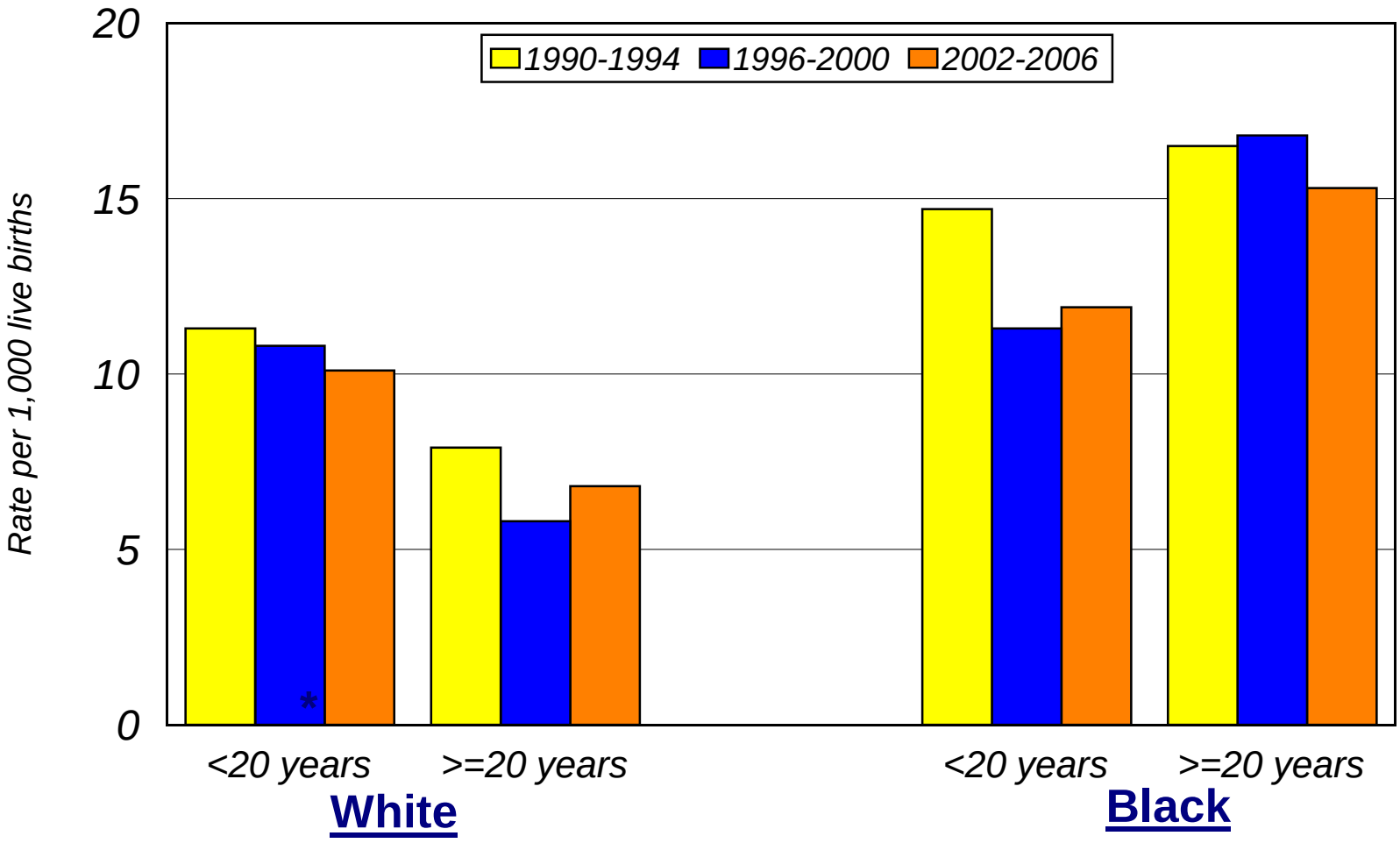
Note: Term is 37 completed weeks of gestation or more.

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 35-37

Figure 77

Infant Mortality Rates by Age and Race of Mother

Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files

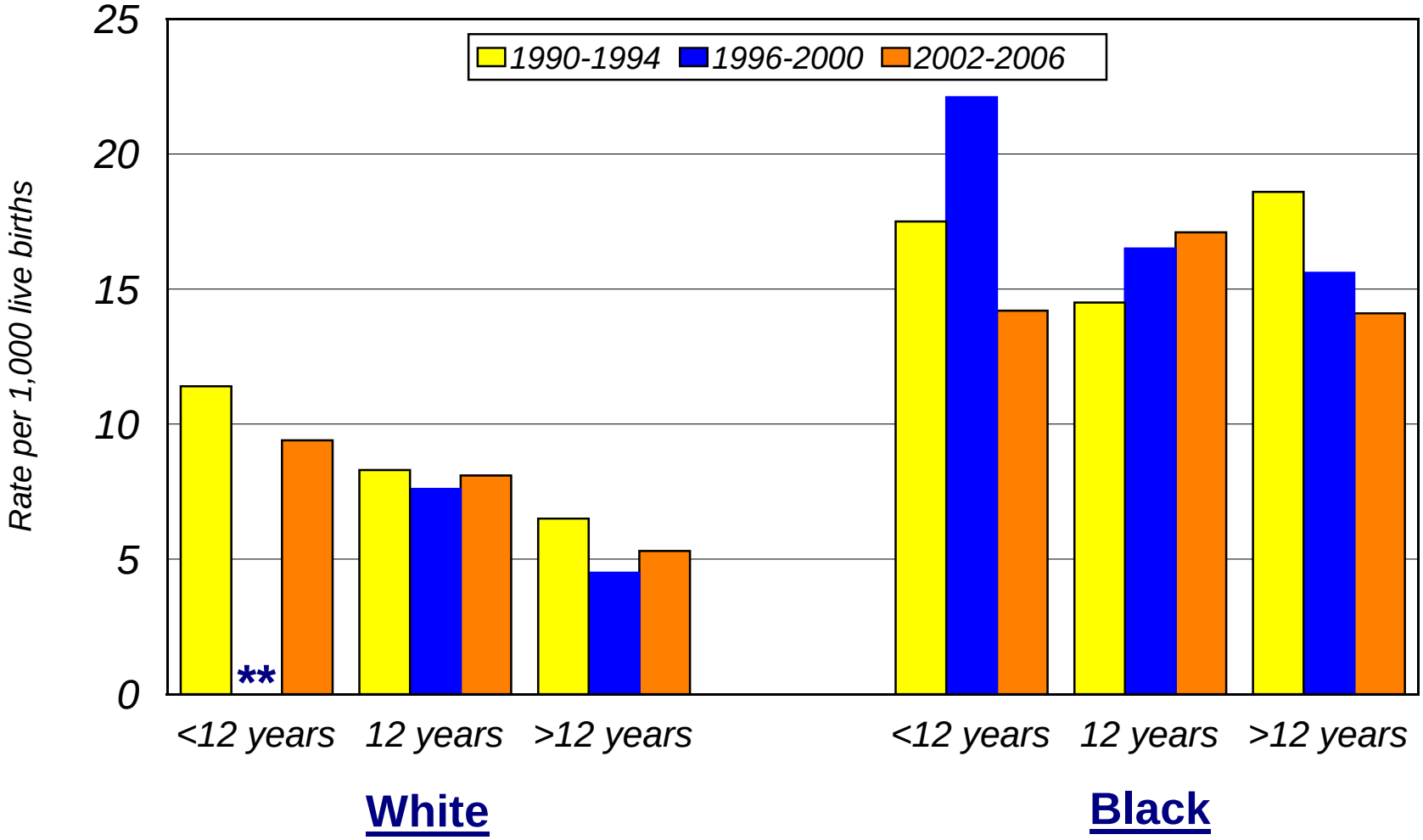


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 36-37

Figure 78

Infant Mortality Rates by Education and Race of Mother

Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files

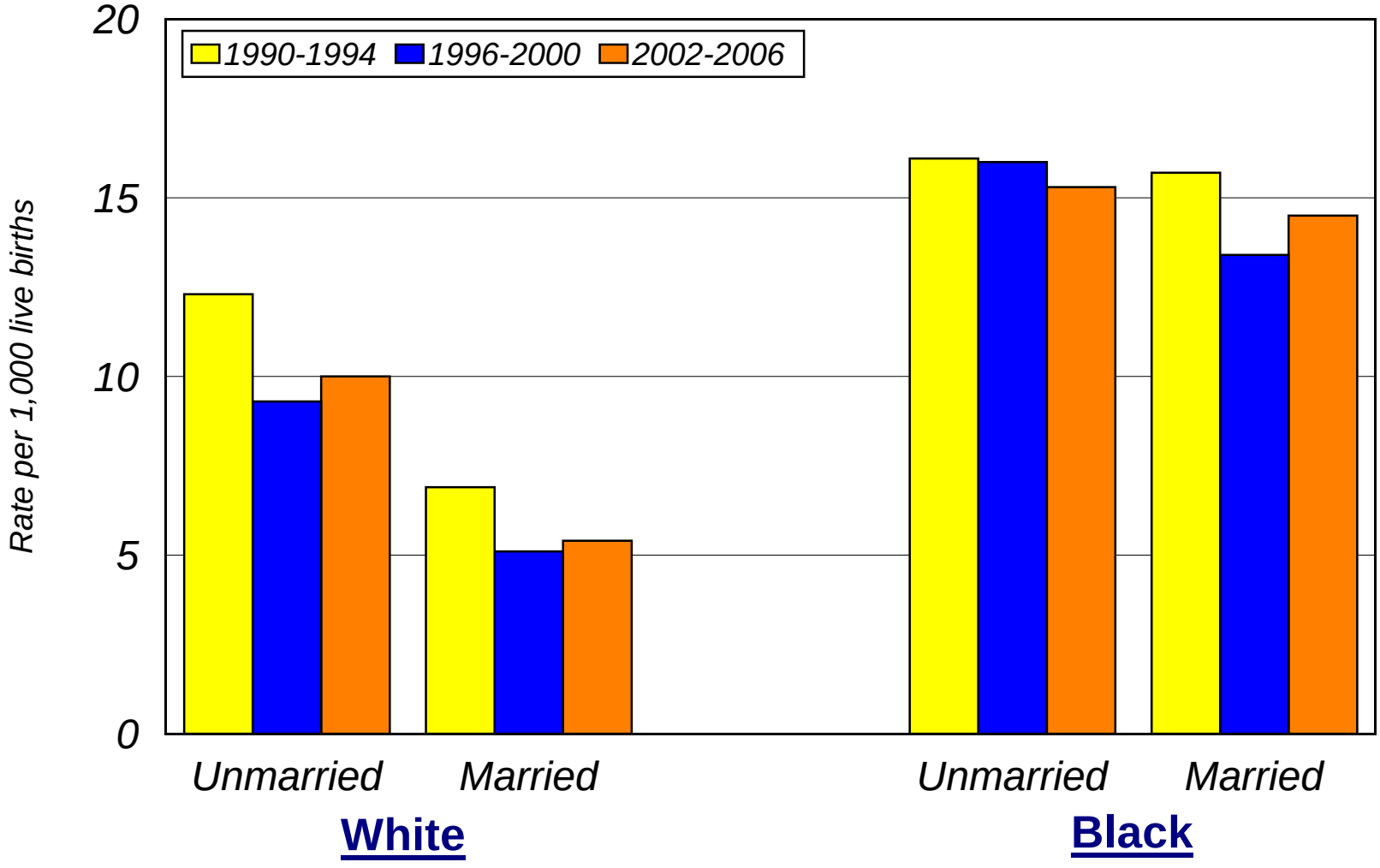


Note: Among adult (20+ years) mothers
***Unstable rate*
Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 36-37

Figure 79

Infant Mortality Rates by Marital Status and Race of Mother

Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files

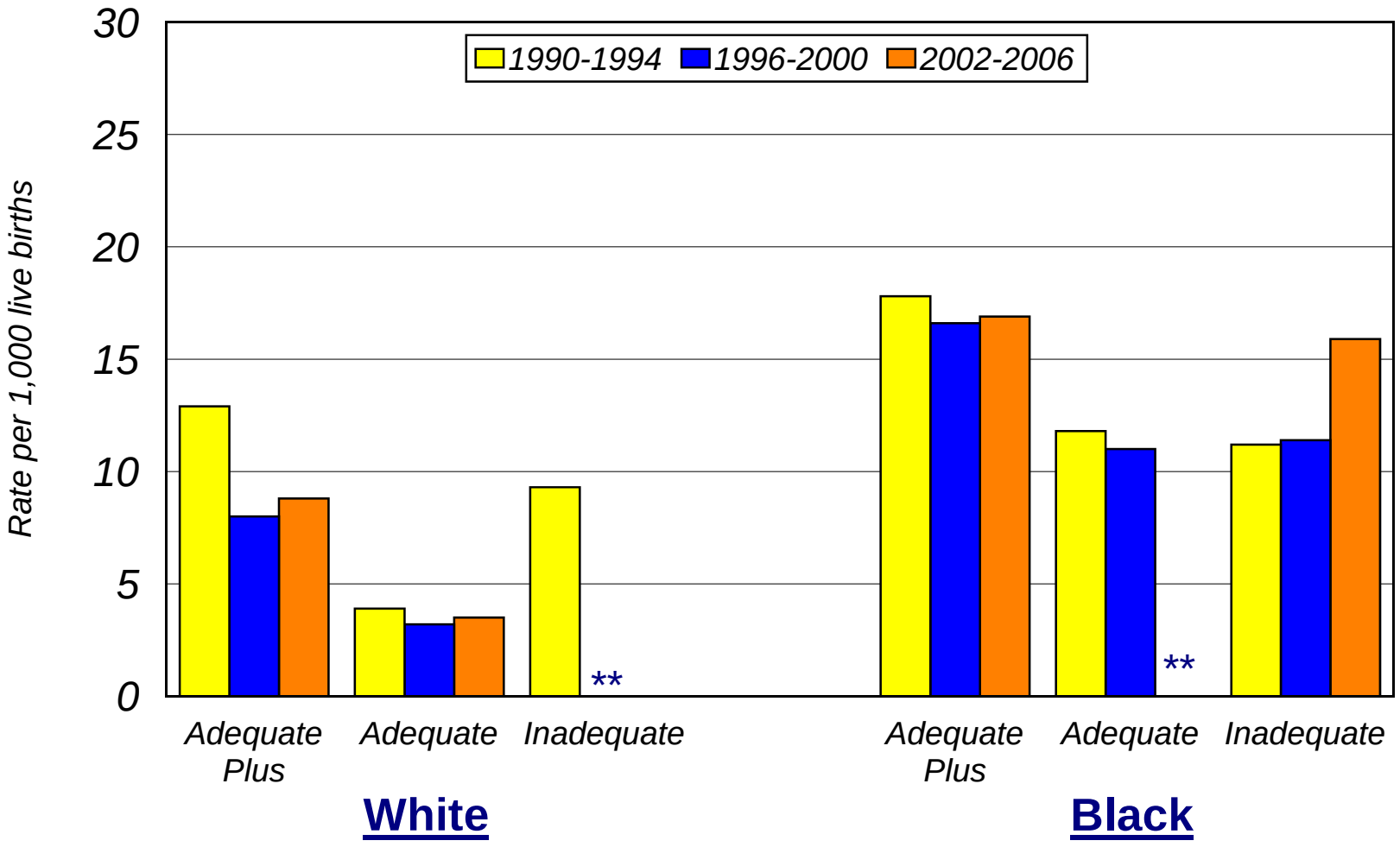


Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 36-37

Figure 80

Infant Mortality Rates by Adequacy of Prenatal Care and Race of Mother

Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



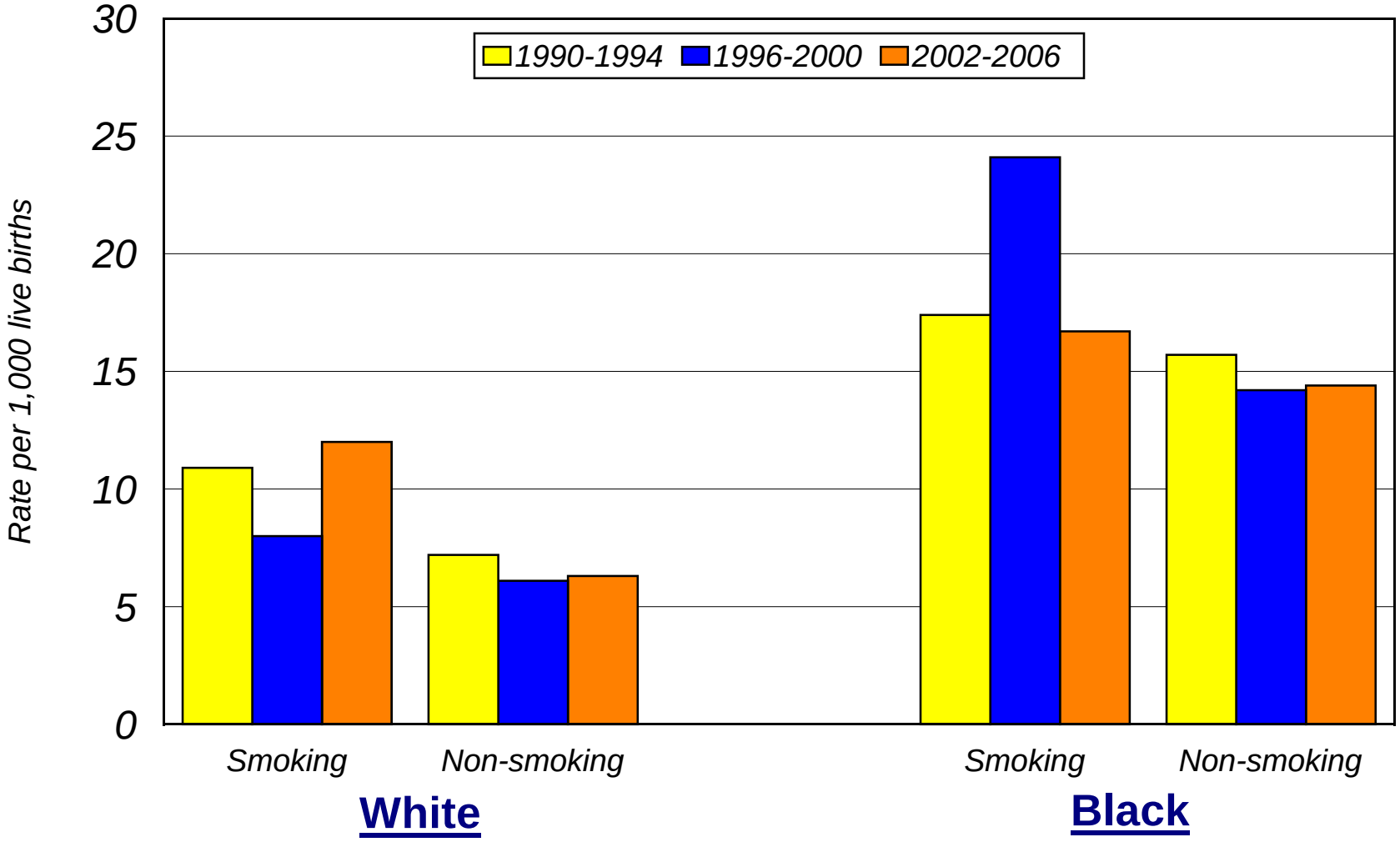
Note: Adequacy of prenatal care is based on Kotelchuck Index.
***Unstable rate*

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 36-37

Figure 81

Infant Mortality Rates by Smoking Status and Race of Mother

Lake County, Indiana, 1990-1994, 1996-2000, and 2002-2006 Linked Files



Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set, Tables 36-37

Technical Notes

Period linked file

To create the period linked files for each year 1990-2006, death certificate numbers of infants (under one year of age) who were Indiana residents were matched and linked to their corresponding birth certificates. Accuracy of linking was determined by measuring consistency between various items common to both the birth and the death certificates such as date of birth, infant's first name, infant's last name, infant's sex, and mother's maiden name. This link created a single record, containing information found on both the birth and death certificates, from the two previously separate records.

Throughout 1990-2006, 98.2 to 99.4 percent of the Indiana resident infant death records were successfully matched with their corresponding birth records (Table I). Of the matched birth/infant death records, those who were not Indiana residents at the time of birth were excluded, and the remaining matched infant deaths (residents of Indiana at both the time of birth and the time of death) comprised the final Indiana period linked file for each calendar year. As a result, the overall yearly infant mortality rates (IMR) in this report, which are based on the linked birth/death file, are slightly lower than the rates reported in the general vital statistics mortality reports, which are based on the vital statistics mortality files that include all infant deaths who were Indiana residents at the time of death (Table II, Figure I).

Due to the consistently high percentages of death records that could be linked to their birth records throughout the 1990 to 2006 period (98.8%), weighting of data at the State level was not considered necessary. Individual counties, however, varied in the proportion of infant death records that could be linked to their corresponding birth records. In Marion County, only 0.8 percent of infant death records could not be linked to their birth records, compared to 3.6 percent of infant death records that count not be linked in Lake County (Figure II). Therefore, there is more underestimation of IMR in Lake County compared to Marion County due to the less successful linking of records in Lake County.

Infant mortality rates

Infant mortality rates are calculated by dividing the number of infant deaths in a period (numerator) by the number of live births in the same period (denominator), times 1,000 or 100,000. For example, the 2006 period linked file contains a numerator file that includes all Indiana infant deaths in 2006 that have been linked to their corresponding birth certificates, whether the birth occurred in 2006 or in 2005, and a denominator file that includes all Indiana live births during 2006.

The IMR is subject to random (or chance) variation in the number of births or deaths involved. Rates based on fewer than 20 deaths are considered unstable, because their 95 percent confidence interval is about as wide as the rate itself (1). Therefore, in this report, IMRs based on less than 20 deaths are not reported.

Random variation and stability of rates

In this report, the number of infant births and deaths represents complete counts for the State of Indiana. Therefore, the reported infant mortality rates are not subject to sampling error. However, when rates are compared over time, between areas, or among various subgroups, the number of events and the corresponding rates are subject to random variation. That is, the rate that actually occurred may be considered as one of a large number of possible different outcomes (rates) that could have arisen under the same circumstances (2). As a result, rates in a given population may tend to fluctuate from year to year even when the health of that population is unchanged. The simplest method for addressing the issue of random variation is the computation of 95 percent confidence interval. This interval indicates that it has 95 percent probability of including the true rate.

Random variation in rates based on a relatively small number of events tends to be larger than that for rates based on more frequently occurring events. A useful rule is that any rate based on fewer than 20 cases in the numerator (infant deaths in this report) will have a 95 percent confidence interval, which is about as wide as the rate itself (1). For example, in an area with 20 deaths out of 1,000 live births, it can be said that the true rate is within 20 +/- 10 per 1,000, which is not precise information. For this reason, in this report, infant mortality rates based on fewer than 20 deaths are not reported. One way to deal with the stability problem is to combine several years of data to increase the number of events, reduce the effect of random variation, and improve the reliability of the mortality rates.

When the number of events, in this case the number of infant deaths, is large, the relative standard error (RSE) is small, and the binomial distribution is used to estimate the 95 percent confidence interval. When the number of events in the numerator (infant deaths) is less than 100, the confidence interval for the rate can be based on a Poisson distribution (3). The formula for RSE of the IMR is:

$$RSE = 100 \times SQRT\ (1/D+1/B),$$

where D is the number of deaths, B is the number of births, and SQRT denotes square root of the expression in parentheses.

The formula for 95 percent confidence interval based on binomial distribution is:

$$\text{Lower: } IMR - 1.96 \times IMR \times RSE/100$$

$$\text{Upper: } IMR + 1.96 \times IMR \times RSE/100$$

The formula for 95 percent confidence interval based on Poisson distribution using Table III is:

$$\text{Lower: } IMR \times L\ (D_{adj})$$

$$\text{Upper: } IMR \times U\ (D_{adj})$$

where D_{adj} is the adjusted number of infant deaths used to take into account the RSE of the number of infant deaths and live births and is computed as follows:

$$D_{adj} = \frac{D \times B}{D + B}$$

L (D_{adj}) and U (D_{adj}) refer to the values in Table III corresponding to the value of D_{adj}.

Comparison of two infant mortality rates

If either of the two IMRs to be compared (R_1 or R_2) is based on less than 100 infant deaths, first compute the 95 percent confidence interval for each rate and then check to see if they overlap. If they do overlap, the difference is not statistically significant at the 0.05 level. If they do not overlap, the difference is considered statistically significant.

If both rates are based on 100 or more deaths, the following Z-test is used to test for significance:

$$Z = \frac{R_1 - R_2}{\text{SQRT}\ [(R_1)^2 \times (RSE_1/100)^2 + (R_2)^2 \times (RSE_2/100)^2]}$$

If Z is equal to or greater than 1.96, the difference is statistically significant at the 0.05 level; and if Z is less than 1.96, the difference is not statistically significant.

In this report, the statistical analyses were performed only on change in IMR between the two periods of 1990-1994 and 1999-2003 in various categories.

Race and Hispanic origin

The racial and ethnic designation used in this report is that of the mother from the birth certificate. The linked file provides more accurate data for computing the IMRs by race and Hispanic origin compared to that reported in the general vital statistics mortality report (4). In the linked file, the race of the mother from the birth certificate is used both in the numerator and the denominator of the IMR. In contrast, in the general vital statistics mortality report, the race information in the denominator is that of the mother from the birth certificate, while the race information in the numerator is the race of the decedent recorded on the death certificate as reported by an informant or on observation. As a result of this difference in the method of reporting race data in the linked file and general vital statistics mortality file, race-specific IMRs from these two data files may be slightly different.

Birth-weight and gestational age edits

Birth-weight and gestational age edits were performed according to National Center for Health Statistics (NCHS) guidelines (5). Birth weights below 227 grams and above 8,650 grams were considered as unknown. Birth weights within the acceptable range of 227 to 8,650 grams were checked for consistency with gestational age. Gestational age in

completed weeks was calculated from the date of last normal menstrual period to the date of birth. The clinical estimate was used for 2.8 percent of the records in which the date of last menses was missing (1.8%) or when the computed gestational age was either out of the acceptable range of 17 to 47 weeks (0.8%) or inconsistent with the birth weight (0.2%).

Age-appropriate education of mother

In this report, mother's educational attainment is reported as the years of completed education regardless of mother's age as well as an age-appropriate education. A mother's education was considered appropriate if she had completed high school or had the appropriate number of grades for her age. For example, for a 17-year-old mother, at least 11 years of education was needed to be considered age-appropriate. For teenage mothers, the age-appropriate education is presented to correct for the effect of mother's age on years of education.

Prenatal care utilization

In addition to initiation of the prenatal care as a measure, different prenatal care indices have been developed as alternative measures based on the timing of the prenatal care, the number of prenatal visits, and the gestational age of the infant at birth. In this report, the Kotelchuck Adequacy of Prenatal Care Utilization (APNCU) Index is used (6). This Index includes the adequate plus care category for those women with unexpectedly large number of prenatal visits given the gestational age at delivery and the month prenatal care began.

The Kotelchuck Index does not assess the quality of the prenatal care, simply its utilization. The prenatal care utilization is considered inadequate if care is initiated after the fourth month of pregnancy regardless of the number of visits. Once prenatal care is initiated during the first four months of pregnancy, then the index is classified into inadequate, intermediate, adequate, or adequate plus if the ratio of actual-to-expected number of visits is less than 50 percent, 50-79 percent, 80-109 percent, or 110 percent and more, respectively. The adequate-plus category mainly includes women who are considered at high risk and receive extra prenatal services and have a disproportionately high share of low birth weight infants compared to other categories (7). The prenatal care index is considered unknown for mothers who have missing information/inconsistent values on the initiation of prenatal care, the number of visits, or gestational age, and for mothers with duration of gestation below 20 weeks and above 44 weeks (considered unacceptable values according to Kotelchuck Index).

Table A-1. Live births, infant, neonatal, and postneonatal deaths by race and Hispanic origin of mother: Indiana, 1990-2006 linked files

Race and Hispanic origin of mother	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Numbers								
All races/origins																	
Live births	85,991	85,708	84,058	83,755	82,530	82,918	83,157	83,385	85,055	85,489	87,700	86,122	84,839	86,382	87,125	87,088	89,404
Infant deaths	813	765	770	745	710	674	708	657	628	663	657	637	638	629	671	684	685
Neonatal deaths	520	481	490	456	448	462	459	428	426	435	445	403	434	408	454	469	424
Postneonatal deaths	293	284	280	289	262	212	249	229	202	228	212	234	204	221	217	215	261
White																	
Live births	75,376	75,220	73,707	73,406	72,445	73,001	73,074	73,344	74,374	74,787	76,753	75,056	74,013	75,422	75,680	75,464	77,096
Infant deaths	641	587	580	583	538	524	552	524	476	508	509	517	491	491	510	536	500
Neonatal deaths	404	363	357	357	338	354	366	342	315	331	358	332	333	314	342	358	299
Postneonatal deaths	237	224	223	226	200	170	186	182	161	177	151	185	158	177	168	178	201
Black																	
Live births	9,421	9,483	9,382	9,314	8,938	8,752	8,746	8,739	9,216	9,244	9,421	9,531	9,243	9,288	9,582	9,820	10,396
Infant deaths	159	174	180	151	156	138	142	124	137	143	136	114	131	132	151	143	178
Neonatal deaths	108	117	126	93	99	101	86	80	101	95	81	69	86	88	104	106	119
Postneonatal deaths	51	57	54	58	57	37	56	44	36	48	55	45	45	44	47	37	59
White, Non-Hispanic																	
Live births	73,623	73,409	71,759	71,056	69,886	70,488	69,321	69,252	69,760	69,973	71,182	68,926	67,655	68,465	68,253	67,296	68,586
Infant deaths	622	574	565	553	519	501	516	498	442	471	483	476	449	456	452	479	455
Neonatal deaths	394	355	349	338	328	336	338	321	297	301	334	306	300	294	297	315	275
Postneonatal deaths	228	219	216	215	191	165	178	177	145	170	149	170	149	162	155	164	180
Black, Non-Hispanic																	
Live births	9,347	9,435	9,358	9,289	8,908	8,695	8,686	8,708	9,172	9,200	9,368	9,495	9,205	9,246	9,534	9,746	10,329
Infant deaths	157	174	180	151	156	135	141	124	135	143	136	113	131	131	151	143	178
Neonatal deaths	106	117	126	93	99	99	86	80	99	95	81	69	86	88	104	106	119
Postneonatal deaths	51	57	54	58	57	36	55	44	36	48	55	44	45	43	47	37	59
Hispanic																	
Live births	1,915	1,832	1,939	2,124	2,311	2,525	2,941	3,393	3,781	4,383	5,427	5,865	6,145	6,763	7,237	8,026	8,488
Infant deaths	15	12	16	26	14	22	27	22	26	35	25	39	42	33	56	57	44
Neonatal deaths	7	7	9	17	10	16	19	17	14	28	23	27	32	20	43	43	23
Postneonatal deaths	8	5	7	9	4	6	8	5	12	7	2	12	10	13	13	14	21

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-2. Live births and infant deaths by selected characteristics among all races: Indiana, 1990-2006 linked files

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Total	85,991	85,708	84,058	83,755	82,530	82,918	83,157	83,385	85,055	85,489	87,700	86,122	84,839	86,382	87,125	87,088	89,404
Sex																	
Male	44,186	43,872	43,369	43,102	42,237	42,623	42,450	42,385	43,316	43,794	45,111	44,155	43,237	44,371	44,861	44,698	45,679
Female	41,804	41,825	40,687	40,653	40,293	40,293	40,705	40,998	41,735	41,694	42,584	41,964	41,599	42,007	42,264	42,388	43,725
Unknown	1	11	2	0	0	2	2	2	4	1	5	3	3	4	0	2	0
Plurality																	
Single births	83,907	83,612	82,039	81,627	80,494	80,711	80,970	81,098	82,522	82,702	85,021	83,330	81,891	83,469	84,125	84,064	86,467
Multiple births	2,061	2,094	2,012	2,128	2,026	2,206	2,187	2,287	2,533	2,787	2,679	2,790	2,946	2,912	3,000	3,023	2,937
Unknown	23	2	7	0	10	1	0	0	0	0	0	2	2	1	0	1	0
Birth weight (grams)																	
<2,500	5,625	5,710	5,622	5,845	5,628	6,195	6,304	6,399	6,717	6,655	6,417	6,522	6,434	6,760	7,019	7,220	7,293
<1,500	985	1,023	990	1,102	1,028	1,049	1,162	1,110	1,172	1,223	1,187	1,197	1,167	1,208	1,242	1,307	1,230
1,500-2,499	4,640	4,687	4,632	4,743	4,600	5,146	5,142	5,289	5,545	5,432	5,230	5,332	5,267	5,552	5,777	5,913	6,063
>=2,500	80,247	79,899	78,377	77,860	76,729	76,461	76,383	76,619	77,948	78,454	80,861	79,198	78,061	79,258	79,746	79,528	81,751
Unknown	119	99	59	50	173	262	470	367	390	380	422	395	344	364	360	340	360
Gestational age (weeks)																	
<37	8,770	8,920	8,884	9,187	8,951	9,116	9,168	9,410	10,008	10,322	10,640	10,778	10,824	11,389	11,659	11,948	11,973
<32	1,510	1,594	1,593	1,700	1,516	1,554	1,703	1,628	1,641	1,769	1,685	1,748	1,703	1,786	1,844	1,897	1,824
32-36	7,260	7,326	7,291	7,487	7,435	7,562	7,465	7,782	8,367	8,553	8,955	9,030	9,121	9,603	9,815	10,051	10,149
>=37	77,029	76,688	75,137	74,536	73,545	73,767	73,976	73,966	75,042	75,158	77,053	75,338	74,008	74,979	75,455	75,127	77,425
Unknown	192	100	37	32	34	35	13	9	5	9	7	6	7	14	11	13	6
Age of mother (years)																	
<20	12,513	12,362	11,857	11,842	11,942	12,193	12,016	11,735	11,730	11,301	10,968	10,213	9,701	9,498	9,588	9,604	9,726
<18	4,328	4,310	4,278	4,249	4,455	4,580	4,381	4,304	3,920	3,693	3,484	3,165	3,062	2,947	2,866	2,864	2,923
18-19	8,185	8,052	7,579	7,593	7,487	7,613	7,635	7,431	7,810	7,608	7,484	7,048	6,639	6,551	6,722	6,740	6,803
>=20	73,389	73,325	72,167	71,895	70,523	70,718	71,134	71,640	73,313	74,158	76,715	75,905	75,130	76,872	77,487	77,475	79,656
20-24	25,257	25,494	25,178	24,827	24,063	23,456	23,174	23,139	23,946	24,264	25,442	24,969	24,731	25,015	24,960	24,602	25,849
25-29	27,097	25,988	25,044	24,380	23,113	23,376	23,589	24,109	24,750	24,833	25,094	24,535	24,101	24,872	25,283	25,744	26,671
30-34	15,577	16,021	15,940	16,289	16,700	16,716	16,797	16,626	16,602	16,794	17,351	17,813	17,615	18,201	18,175	17,805	17,818
>=35	5,458	5,822	6,005	6,399	6,647	7,170	7,574	7,766	8,015	8,267	8,828	8,588	8,683	8,784	9,069	9,024	9,318
Unknown	89	21	34	18	65	7	7	10	12	30	17	4	8	12	50	9	22
Age / Education (years)																	
<20 / <appropriate	3,666	3,538	3,351	3,084	3,002	3,015	3,157	3,178	3,304	3,153	3,128	3,015	2,946	2,753	2,785	2,792	2,737
<20 / appropriate	8,695	8,696	8,430	8,657	8,781	9,026	8,663	8,428	8,330	8,015	7,711	7,121	6,675	6,641	6,705	6,700	6,835
>=20 / <12	10,259	10,273	9,978	9,700	8,977	9,006	9,223	9,505	10,228	10,552	11,559	11,825	12,002	12,583	12,741	13,275	13,573
>=20 / 12	33,600	32,898	31,479	30,464	28,544	27,333	26,567	26,388	26,237	26,202	26,372	25,401	24,558	23,924	24,196	23,564	23,769
>=20 / >12	29,074	29,764	30,431	31,273	31,931	33,460	34,473	35,040	36,221	36,731	38,205	38,280	38,202	39,887	40,027	39,948	41,421
Unknown	697	539	389	577	1,295	1,078	1,074	846	735	836	725	480	456	594	671	809	1,069

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-2. Live births and infant deaths by selected characteristics among all races: Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Education (years)																	
<12	18,141	18,120	17,534	17,073	16,350	16,530	16,609	16,829	17,300	17,352	18,052	17,939	17,893	18,293	18,448	18,995	19,317
0-8	2,727	2,902	2,897	2,821	2,858	3,016	3,019	3,143	3,384	3,501	4,022	4,097	4,289	4,539	4,518	4,811	4,917
9-11	15,414	15,218	14,637	14,252	13,492	13,514	13,590	13,686	13,916	13,851	14,030	13,842	13,604	13,754	13,930	14,184	14,400
=12	37,703	36,835	35,253	34,335	32,488	31,280	30,441	30,108	30,148	30,000	30,104	28,843	27,719	27,066	27,467	26,754	27,039
>12	29,531	30,236	30,908	31,784	32,458	34,035	35,038	35,610	36,882	37,328	38,831	38,863	38,775	40,439	40,587	40,533	41,997
13-15	16,596	16,986	17,273	17,394	17,442	18,273	18,665	18,541	19,205	19,156	19,601	19,575	19,140	19,873	19,668	19,549	20,416
>=16	12,935	13,250	13,635	14,390	15,016	15,762	16,373	17,069	17,677	18,172	19,230	19,288	19,635	20,566	20,919	20,984	21,581
Unknown	616	517	363	563	1,234	1,073	1,069	838	725	809	713	477	452	584	623	806	1,051
Live-birth order																	
First	35,035	34,872	33,898	33,823	33,763	34,483	33,758	33,402	33,354	32,974	33,960	33,111	32,085	33,019	33,568	33,364	34,366
Second	28,419	28,141	27,863	27,531	26,951	26,944	27,112	26,993	27,895	28,299	28,370	28,043	27,710	27,601	27,667	27,467	28,016
Third	14,036	14,043	13,813	13,869	13,371	13,200	13,766	13,947	14,586	14,955	15,648	15,078	15,212	15,574	15,538	15,495	15,947
Fourth+	7,804	7,992	7,862	7,696	7,739	7,872	7,962	8,483	8,899	9,089	9,607	9,790	9,744	10,107	10,288	10,687	10,979
Unknown	697	660	622	836	706	419	559	560	321	172	115	100	88	81	64	75	96
Marital status																	
Married	63,358	61,345	59,216	57,924	56,497	56,394	56,215	56,220	56,469	55,889	57,353	55,418	53,796	54,332	53,315	52,091	52,523
Unmarried	22,523	24,285	24,756	25,818	26,007	26,509	26,878	27,149	28,547	29,596	30,319	30,695	31,004	32,042	33,808	34,964	36,875
Unknown	110	78	86	13	26	15	64	16	39	4	28	9	39	8	2	33	6
Prenatal care began																	
First trimester	66,220	65,666	65,470	65,815	65,319	65,938	65,299	65,486	66,941	67,985	70,124	68,307	68,331	69,608	69,055	68,723	69,341
After first trimester	16,730	17,343	16,466	15,788	14989	14832	15214	15491	16123	15727	16048	16249	14967	15120	16046	16191	17503
Second trimester	14,049	14,608	14,046	13,480	12,766	12,674	12,881	13,079	13,522	13,228	13,424	13,663	12,690	12,507	13,104	13,554	14,539
Third trimester	2,681	2,735	2,420	2,308	2,223	2,158	2,333	2,412	2,601	2,499	2,624	2,586	2,277	2,613	2,942	2,637	2,964
No care	990	1,184	755	758	764	729	730	731	713	638	647	648	577	512	665	604	1,154
Unknown	2,051	1,515	1,367	1,394	1,458	1,419	1,914	1,677	1,278	1,139	881	918	964	1,142	1,359	1,570	1,406
Prenatal care index[1]																	
Adequate plus	18,715	18,171	18,372	19,003	19,357	20,705	21,404	23,073	25,592	25,605	26,259	25,865	26,299	26,778	26,214	27,323	26,481
Adequate	38,071	38,424	38,253	38,409	38,200	37,971	36,763	36,153	35,737	36,434	37,272	36,059	36,024	36,128	35,860	34,550	35,542
Intermediate	14,306	14,586	14,245	13,496	12,238	11,706	10,910	10,429	10,195	10,186	11,026	10,840	10,317	11,110	11,483	11,426	11,990
Inadequate	10,537	10,683	9,813	9,463	8,899	8,830	9,239	9,481	9,881	9,609	10,103	10,125	9,389	9,668	10,382	10,369	11,686
No care	990	1,184	755	758	764	729	730	731	713	638	647	648	577	512	665	604	1,154
Unknown	3,372	2,660	2,620	2,626	3,072	2,977	4,111	3,518	2,937	3,017	2,393	2,585	2,233	2,186	2,521	2,816	2,551
Maternal smoking																	
Smoking	22,841	21,738	20,648	19,844	18,791	18,347	17,528	17,759	18,095	17,852	17,722	17,380	16,210	15,954	15,707	15,589	15,450
Not smoking	62,698	63,540	63,102	63,570	63,354	64,216	65,258	65,362	66,707	67,398	69,690	68,507	68,453	70,267	71,240	71,325	73,792
Unknown	452	430	308	341	385	355	371	264	253	239	288	235	176	161	178	174	162

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-2. Live births and infant deaths by selected characteristics among all races: Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Total	813	765	770	745	710	674	708	657	628	663	657	637	638	629	671	684	685
Sex																	
Male	473	434	460	440	398	385	399	363	351	394	349	355	354	377	357	388	367
Female	339	327	308	305	312	289	307	294	276	269	307	281	283	251	314	296	318
Unknown	1	4	2	0	0	0	2	0	1	0	1	1	1	1	0	0	0
Plurality																	
Single births	706	667	684	667	611	591	622	588	542	567	563	548	516	525	567	573	598
Multiple births	107	98	86	78	92	83	86	69	86	96	94	89	122	104	104	111	87
Unknown	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0
Birth weight (grams)																	
<2,500	471	458	431	447	393	403	415	393	411	423	391	367	409	388	426	442	439
<1,500	340	328	340	320	293	290	321	297	320	320	274	278	327	289	317	343	328
1,500-2,499	131	130	91	127	100	113	94	96	91	103	117	89	82	99	109	99	111
>=2,500	311	286	313	281	280	239	253	234	190	213	222	237	194	208	203	209	217
Unknown	31	21	26	17	37	32	40	30	27	27	44	33	35	33	42	33	29
Gestational age (weeks)																	
<37	473	475	464	443	415	415	446	399	426	434	411	393	440	396	454	466	445
<32	359	350	350	335	325	318	358	322	342	336	302	314	352	315	358	375	350
32-36	114	125	114	108	90	97	88	77	84	98	109	79	88	81	96	91	95
>=37	332	289	305	299	285	254	255	258	199	228	244	243	195	232	214	213	236
Unknown	8	1	1	3	10	5	7	0	3	1	2	1	3	1	3	5	4
Age of mother (years)																	
<20	168	162	151	154	138	132	152	134	120	121	110	107	88	99	123	96	108
<18	56	66	71	60	66	61	66	51	49	41	47	31	31	34	47	27	38
18-19	112	96	80	94	72	71	86	83	71	80	63	76	57	65	76	69	70
>=20	643	603	616	591	567	542	556	523	507	541	547	530	548	529	548	587	577
20-24	265	240	226	243	242	207	193	196	195	212	202	186	225	203	208	208	233
25-29	203	194	190	187	167	169	188	156	148	148	162	156	160	145	165	186	168
30-34	131	112	124	114	100	107	126	108	111	114	101	101	105	113	99	113	117
>=35	44	57	76	47	58	59	50	63	53	67	82	87	58	68	76	80	59
Unknown	2	0	3	0	5	0	0	0	1	1	0	0	2	1	0	1	0
Age / Education (years)																	
<20 / <appropriate	55	53	51	38	34	22	29	37	32	32	23	29	36	30	48	33	22
<20 / appropriate	105	98	95	108	98	108	114	93	86	84	86	72	52	66	67	60	82
>=20 / <12	125	112	121	109	126	86	103	115	114	125	104	108	119	108	136	126	125
>=20 / 12	301	286	279	255	242	230	207	192	191	213	208	196	196	199	183	217	213
>=20 / >12	196	189	212	213	183	203	221	193	177	185	215	217	209	211	219	232	219
Unknown	31	27	12	22	27	25	34	27	28	24	21	15	26	15	18	16	24

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-2. Live births and infant deaths by selected characteristics among all races: Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Education (years)																	
<12	230	216	232	209	212	179	195	208	196	202	169	170	183	180	223	193	196
0-8	40	41	39	37	47	27	28	33	33	28	31	44	26	37	52	50	35
9-11	190	175	193	172	165	152	167	175	163	174	138	126	157	143	171	143	161
=12	348	330	313	295	282	264	254	221	223	249	244	230	215	221	208	240	242
>12	204	192	213	219	189	206	225	201	182	188	223	222	214	213	222	235	223
13-15	122	115	114	135	118	121	127	115	118	110	127	124	122	122	122	142	131
>=16	82	77	99	84	71	85	98	86	64	78	96	98	92	91	100	93	92
Unknown	31	27	12	22	27	25	34	27	27	24	21	15	26	15	18	16	24
Live-birth order																	
First	309	288	281	265	255	294	277	280	230	275	261	228	229	232	262	254	285
Second	249	264	225	262	219	188	215	185	192	181	189	186	189	176	201	200	193
Third	135	130	154	117	121	104	133	109	109	115	123	129	123	115	97	115	101
Fourth+	98	73	101	87	99	81	79	74	87	87	78	92	89	103	110	113	102
Unknown	22	10	9	14	16	7	4	9	10	5	6	2	8	3	1	2	4
Marital status																	
Married	497	444	434	408	366	357	389	349	316	330	347	351	312	321	330	358	297
Unmarried	310	321	335	337	342	317	318	308	312	332	309	286	325	307	341	325	388
Unknown	6	0	1	0	2	0	1	0	0	1	1	0	1	1	0	1	0
Prenatal care began																	
First trimester	544	524	555	511	486	486	507	460	432	470	486	502	435	434	486	503	476
After first trimester	163	131	152	162	154	127	122	129	115	128	116	100	121	118	107	117	128
Second trimester	130	116	132	145	139	115	99	103	95	113	89	89	102	102	92	100	111
Third trimester	33	15	20	17	15	12	23	26	20	15	27	11	19	16	15	17	17
No care	44	46	32	34	36	30	31	31	40	24	23	13	27	25	36	21	34
Unknown	62	64	31	38	34	31	48	37	41	41	32	22	55	52	42	43	47
Prenatal care index[1]																	
Adequate plus	273	260	263	277	253	255	246	251	251	293	260	274	247	251	269	313	284
Adequate	183	186	204	189	166	161	175	143	124	123	150	154	133	118	138	127	137
Intermediate	87	85	86	80	68	60	57	51	40	40	42	54	47	55	54	52	57
Inadequate	119	82	89	86	93	76	77	81	66	73	80	57	69	72	63	73	77
No care	44	46	32	34	36	30	31	31	40	24	23	13	27	25	36	21	34
Unknown	107	106	96	79	94	92	122	100	107	110	102	85	115	108	111	98	96
Maternal smoking																	
Smoking	289	242	245	226	226	198	204	176	205	193	183	176	196	170	167	151	157
Not smoking	499	508	515	503	467	470	495	475	419	466	464	457	441	457	499	530	524
Unknown	25	15	10	16	17	6	9	6	4	4	10	4	1	2	5	3	4

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-3. Live births and infant deaths by selected characteristics among whites: Indiana, 1990-2006 linked files

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Total	75,376	75,220	73,707	73,406	72,445	73,001	73,074	73,344	74,374	74,787	76,753	75,056	74,013	75,422	75,680	75,464	77,096
Sex																	
Male	38,763	38,517	38,027	37,764	37,155	37,525	37,334	37,390	37,908	38,284	39,574	38,502	37,732	38,800	39,006	38,762	39,474
Female	36,612	36,693	35,678	35,642	35,290	35,474	35,738	35,954	36,463	36,502	37,177	36,552	36,280	36,618	36,674	36,700	37,622
Unknown	1	10	2	0	0	2	2	0	3	1	2	2	1	4	0	2	0
Plurality																	
Single births	73,585	73,366	71,991	71,551	70,686	71,068	71,162	71,340	72,186	72,339	74,439	72,679	71,485	72,879	73,054	72,904	74,618
Multiple births	1,772	1,852	1,713	1,855	1,757	1,933	1,912	2,004	2,188	2,448	2,314	2,377	2,528	2,543	2,626	2,559	2,478
Unknown	19	2	3	0	2	0	0	0	0	0	0	0	0	0	0	1	0
Birth weight (grams)																	
<2,500	4,372	4,472	4,397	4,571	4,463	4,981	5,002	5,127	5,366	5,357	5,125	5,190	5,113	5,397	5,591	5,743	5,702
<1,500	717	764	698	848	762	804	879	851	889	930	912	903	904	896	937	968	888
1,500-2,499	3,655	3,708	3,699	3,723	3,701	4,177	4,123	4,276	4,477	4,427	4,213	4,287	4,209	4,501	4,654	4,775	4,814
>=2,500	70,951	70,719	69,265	68,794	67,869	67,816	67,700	67,911	68,719	69,101	71,286	69,535	68,638	69,727	69,796	69,439	71,095
Unknown	53	29	45	41	113	204	372	306	289	329	342	331	262	298	293	282	299
Gestational age (weeks)																	
<37	6,838	7,062	7,035	7,352	7,243	7,416	7,403	7,661	8,157	8,473	8,711	8,897	8,941	9,436	9,633	9,867	9,795
<32	1,083	1,163	1,132	1,263	1,092	1,150	1,274	1,217	1,232	1,336	1,299	1,314	1,320	1,373	1,411	1,451	1,345
32-36	5,755	5,899	5,903	6,089	6,151	6,266	6,129	6,444	6,925	7,137	7,412	7,583	7,621	8,063	8,222	8,416	8,450
>=37	68,454	68,125	66,640	66,027	65,178	65,554	65,660	65,675	66,212	66,312	68,039	66,155	65,067	65,980	66,038	65,588	67,298
Unknown	84	33	32	27	24	31	11	8	5	2	3	4	5	6	9	9	3
Age of mother (years)																	
<20	9,781	9,614	9,130	9,222	9,396	9,717	9,525	9,416	9,253	8,945	8,793	8,141	7,773	7,573	7,610	7,653	7,618
<18	3,109	3,081	3,058	3,038	3,271	3,450	3,267	3,273	2,927	2,772	2,657	2,374	2,312	2,270	2,105	2,165	2,154
18-19	6,672	6,533	6,072	6,184	6,125	6,267	6,258	6,143	6,326	6,173	6,136	5,767	5,461	5,303	5,505	5,488	5,464
>=20	65,527	65,590	64,553	64,172	62,995	63,280	63,546	63,922	65,111	65,816	67,948	66,911	66,234	67,838	68,032	67,806	69,464
20-24	21,811	22,027	21,742	21,427	20,742	20,306	19,941	19,889	20,473	20,707	21,700	21,155	21,039	21,379	21,246	21,090	21,911
25-29	24,622	23,644	22,815	22,134	20,923	21,295	21,403	21,858	22,218	22,315	22,486	21,877	21,456	22,160	22,441	22,812	23,536
30-34	14,180	14,664	14,604	14,829	15,296	15,249	15,378	15,147	15,207	15,313	15,778	16,193	15,954	16,456	16,241	15,893	15,772
>=35	4,914	5,255	5,392	5,782	6,034	6,430	6,824	7,028	7,213	7,481	7,984	7,686	7,785	7,843	8,104	8,011	8,245
Unknown	68	16	24	12	54	4	3	6	10	26	12	4	6	11	38	5	14
Age / Education (years)																	
<20 / <appropriate	3,190	3,078	2,827	2,625	2,556	2,590	2,703	2,757	2,785	2,676	2,681	2,581	2,551	2,324	2,405	2,381	2,311
<20 / appropriate	6,525	6,481	6,264	6,537	6,738	7,036	6,696	6,578	6,398	6,181	6,020	5,504	5,160	5,176	5,126	5,192	5,192
>=20 / <12	8,994	9,041	8,730	8,439	7,800	7,916	8,021	8,324	8,880	9,182	10,087	10,283	10,385	10,994	11,059	11,548	11,829
>=20 / 12	30,006	29,453	28,123	27,148	25,439	24,398	23,596	23,374	23,048	22,952	22,920	21,961	21,297	20,661	20,758	20,113	20,179
>=20 / >12	26,271	26,901	27,515	28,275	28,887	30,233	31,269	31,682	32,714	33,159	34,476	34,349	34,266	35,824	35,811	35,606	36,713
Unknown	390	265	248	382	1,023	828	789	629	549	637	569	378	354	443	521	624	872

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-3. Live births by selected characteristics of infant and mother among whites: Indiana, 1990-2006--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Education (years)																	
<12	15,153	15,126	14,469	14,091	13,504	13,821	13,814	14,146	14,362	14,520	15,253	15,084	15,080	15,528	15,562	16,112	16,300
0-8	2,466	2,652	2,641	2,602	2,604	2,769	2,787	2,946	3,156	3,272	3,808	3,913	4,070	4,326	4,294	4,603	4,680
9-11	12,685	12,474	11,828	11,489	10,900	11,052	11,027	11,200	11,206	11,248	11,445	11,171	11,010	11,202	11,268	11,509	11,620
=12	33,289	32,583	31,123	30,282	28,656	27,648	26,754	26,416	26,210	25,999	25,958	24,764	23,883	23,174	23,371	22,651	22,753
>12	26,612	27,262	27,888	28,663	29,316	30,707	31,720	32,157	33,262	33,655	34,985	34,833	34,700	36,287	36,263	36,080	37,184
13-15	14,523	14,820	15,126	15,276	15,317	16,009	16,467	16,332	16,831	16,785	17,161	17,009	16,635	17,327	17,155	16,890	17,596
>=16	12,089	12,442	12,762	13,387	13,999	14,698	15,253	15,825	16,431	16,870	17,824	17,824	18,065	18,960	19,108	19,190	19,588
Unknown	322	249	227	370	969	825	786	625	540	613	557	375	350	433	484	621	859
Live-birth order																	
First	30,973	30,909	29,923	29,899	29,784	30,350	29,761	29,462	29,314	28,980	30,008	28,961	28,157	28,967	29,204	29,011	29,667
Second	25,345	25,033	24,777	24,401	24,079	24,174	24,164	24,126	24,759	25,160	25,191	24,810	24,603	24,457	24,439	24,240	24,489
Third	12,202	12,209	12,082	12,053	11,658	11,596	12,110	12,249	12,718	13,029	13,592	13,137	13,197	13,605	13,532	13,443	13,872
Fourth+	6,318	6,545	6,365	6,299	6,284	6,511	6,586	7,050	7,344	7,487	7,882	8,050	7,994	8,354	8,470	8,730	9,001
Unknown	538	524	560	754	640	370	453	457	239	131	80	98	62	39	35	40	67
Marital status																	
Married	59,971	58,288	56,227	54,854	53,607	53,420	53,163	53,065	53,196	52,625	53,892	51,880	50,360	50,799	49,667	48,449	48,689
Unmarried	15,328	16,904	17,400	18,542	18,817	19,571	19,854	20,265	21,142	22,159	22,839	23,169	23,630	24,620	26,013	26,988	28,404
Unknown	77	28	80	10	21	10	57	14	36	3	22	7	23	3	0	27	3
Prenatal care began																	
First trimester	59,924	59,661	58,984	59,198	58,824	59,354	58,920	58,895	59,936	60,813	62,627	60,752	60,755	61,954	61,130	60,950	61,040
After first trimester	13,377	13,741	13,194	12,621	11,976	12,030	12,251	12,592	12,960	12,679	13,042	13,184	12,140	12,259	13,058	12,930	14,084
Second trimester	11,286	11,703	11,290	10,818	10,251	10,287	10,405	10,642	10,913	10,702	10,952	11,144	10,318	10,208	10,637	10,825	11,702
Third trimester	2,091	2,038	1,904	1,803	1,725	1,743	1,846	1,950	2,047	1,977	2,090	2,040	1,822	2,051	2,421	2,105	2,382
No care	631	771	475	487	502	501	469	495	460	445	448	440	357	315	435	400	794
Unknown	1,444	1,047	1,054	1,100	1,143	1,116	1,434	1,362	1,018	850	636	680	761	894	1,057	1,184	1,178
Prenatal care index[1]																	
Adequate plus	16,564	16,172	16,178	16,803	17,103	18,252	18,865	20,372	22,462	22,530	23,132	22,755	23,062	23,544	22,867	23,852	23,174
Adequate	35,000	35,437	35,089	35,108	35,019	34,753	33,763	33,013	32,454	33,060	33,689	32,473	32,506	32,529	32,091	30,872	31,612
Intermediate	12,681	12,893	12,454	11,635	10,671	10,224	9,610	9,118	8,880	8,893	9,620	9,345	8,861	9,586	9,874	9,931	10,209
Inadequate	8,134	8,143	7,596	7,371	6,887	6,979	7,293	7,531	7,787	7,551	8,062	8,083	7,476	7,716	8,395	8,194	9,185
No care	631	771	475	487	502	501	469	495	460	445	448	440	357	315	435	400	794
Unknown	2,366	1,804	1,915	2,002	2,263	2,292	3,074	2,815	2,331	2,308	1,802	1,960	1,751	1,732	2,018	2,215	2,122
Maternal smoking																	
Smoking	20,539	19,746	18,725	18,009	17,134	16,784	15,967	16,372	16,449	16,269	16,167	15,789	14,698	14,431	14,228	14,123	13,967
Not smoking	54,561	55,196	54,723	55,120	54,993	55,922	56,775	56,736	57,746	58,309	60,351	59,066	59,173	60,849	61,308	61,199	62,996
Unknown	276	278	259	277	318	295	332	236	179	209	235	201	142	142	144	142	133

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-3. Live births and infant deaths by selected characteristics among whites: Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Total	641	587	580	583	538	524	552	524	476	508	509	517	491	491	510	536	500
Sex																	
Male	378	333	347	348	297	300	321	285	274	312	268	291	271	292	272	309	277
Female	262	251	231	235	241	224	229	239	202	196	240	226	220	198	238	227	223
Unknown	1	3	2	0	0	0	2	0	0	0	1	0	0	1	0	0	0
Plurality																	
Single births	558	510	515	519	470	455	488	467	406	436	427	442	402	413	423	454	439
Multiple births	83	77	65	64	68	69	64	57	70	72	82	75	89	78	87	82	61
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Birth weight (grams)																	
<2,500	365	335	300	336	297	303	322	306	299	319	306	284	312	290	302	326	307
<1,500	257	225	230	237	215	213	239	219	228	234	213	205	248	209	222	246	223
1,500-2,499	108	110	70	99	82	90	83	87	71	85	93	79	64	81	80	80	84
>=2,500	257	240	261	237	223	202	203	195	157	168	173	205	158	174	175	185	176
Unknown	19	12	19	10	18	19	27	23	20	21	30	28	21	27	33	25	17
Gestational age (weeks)																	
<37	363	338	325	333	301	305	340	306	306	328	318	308	329	299	326	351	302
<32	270	239	237	246	230	225	268	240	241	245	231	234	260	230	248	273	231
32-36	93	99	88	87	71	80	72	66	65	83	87	74	69	69	78	78	71
>=37	276	248	254	248	235	215	206	218	167	179	190	208	159	192	181	180	196
Unknown	2	1	1	2	2	4	6	0	3	1	1	1	3	0	3	5	2
Age of mother (years)																	
<20	124	108	100	109	88	99	102	97	90	88	79	73	62	73	95	72	80
<18	41	34	44	40	39	47	45	37	34	27	33	17	20	22	37	19	26
18-19	83	74	56	69	49	52	57	60	56	61	46	56	42	51	58	53	54
>=20	517	479	479	474	450	425	450	427	385	420	430	444	428	418	415	464	420
20-24	200	185	170	192	175	154	147	153	143	156	149	152	171	153	149	161	159
25-29	172	162	153	150	141	142	157	132	117	117	131	132	123	114	122	146	123
30-34	107	90	99	91	82	85	106	92	93	91	83	92	91	94	78	93	92
>=35	38	42	57	41	52	44	40	50	32	56	67	68	43	57	66	64	46
Unknown	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0
Age / Education (years)																	
<20 / <appropriate	49	41	39	33	28	19	16	23	27	27	17	23	28	27	41	29	18
<20 / appropriate	72	63	59	73	57	80	83	72	62	59	61	46	34	45	48	41	59
>=20 / <12	102	94	86	91	103	67	82	96	93	101	81	99	92	85	107	98	96
>=20 / 12	242	233	221	200	196	181	165	159	141	164	155	159	155	153	144	176	148
>=20 / >12	164	144	169	176	145	161	184	158	136	147	179	181	163	171	156	181	159
Unknown	12	12	6	10	9	16	22	16	17	10	16	9	19	10	14	11	20

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-3. Live births and infant deaths by selected characteristics among whites: Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Education (years)																	
<12	188	163	159	169	159	138	144	160	157	157	126	141	136	138	176	150	148
0-8	35	32	29	36	42	24	23	28	29	23	29	44	25	35	48	49	32
9-11	153	131	130	133	117	114	121	132	128	134	97	97	111	103	128	101	116
=12	274	266	246	224	221	207	199	184	163	193	181	182	171	170	162	192	171
>12	167	146	169	180	149	163	187	164	140	148	186	185	165	173	158	183	161
13-15	94	81	84	110	86	90	96	86	88	79	101	95	89	96	75	102	81
>=16	73	65	85	70	63	73	91	78	52	69	85	90	76	77	83	81	80
Unknown	12	12	6	10	9	16	22	16	16	10	16	9	19	10	14	11	20
Live-birth order																	
First	247	220	213	210	200	235	217	225	181	218	208	185	192	182	199	199	204
Second	202	202	175	211	170	147	171	149	155	144	151	155	150	137	155	171	148
Third	110	107	122	92	91	81	107	84	77	85	92	106	89	86	72	88	74
Fourth+	67	51	65	62	72	55	55	58	57	60	55	69	55	84	83	77	70
Unknown	15	7	5	8	5	6	2	8	6	1	3	2	5	2	1	1	4
Marital status																	
Married	454	398	382	371	338	325	350	318	275	292	317	322	293	287	293	325	256
Unmarried	184	189	198	212	199	199	201	206	201	216	191	195	198	203	217	210	244
Unknown	3	0	0	0	1	0	1	0	0	0	1	0	0	1	0	1	0
Prenatal care began																	
First trimester	459	431	443	429	386	390	423	382	337	380	389	419	346	349	371	408	356
After first trimester	118	94	107	114	118	96	85	95	84	97	86	75	88	89	83	84	94
Second trimester	94	85	91	100	107	87	73	78	68	86	63	67	76	79	71	68	81
Third trimester	24	9	16	14	11	9	12	17	16	11	23	8	12	10	12	16	13
No care	25	23	14	17	16	15	14	19	25	13	11	8	14	13	24	10	14
Unknown	39	39	16	23	18	23	30	28	30	18	23	15	43	40	32	34	36
Prenatal care index[1]																	
Adequate plus	233	208	209	228	208	210	203	210	191	239	208	226	195	198	210	249	216
Adequate	159	164	172	163	133	136	150	115	99	100	125	132	116	97	105	108	104
Intermediate	72	66	62	60	52	46	48	45	33	35	30	46	34	44	39	39	47
Inadequate	80	58	62	61	68	55	53	55	49	52	61	41	48	54	48	53	55
No care	25	23	14	17	16	15	14	19	25	13	11	8	14	13	24	10	14
Unknown	72	68	61	54	61	62	84	80	79	69	74	64	84	85	84	77	64
Maternal smoking																	
Smoking	242	194	196	192	194	166	174	157	171	163	156	146	155	143	140	129	130
Not smoking	383	384	379	382	340	353	369	362	304	341	348	368	336	346	367	406	366
Unknown	16	9	5	9	4	5	9	5	1	4	5	3	0	2	3	1	4

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-4. Live births and infant deaths by selected characteristics of infant and mother among blacks: Indiana, 1990-2006

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Total	9,421	9,483	9,382	9,314	8,938	8,752	8,746	8,739	9,216	9,244	9,421	9,531	9,243	9,288	9,582	9,820	10,396
Sex																	
Male	4,778	4,840	4,812	4,805	4,510	4,516	4,426	4,349	4,653	4,747	4,753	4,859	4,721	4,728	4,917	4,994	5,236
Female	4,643	4,642	4,570	4,509	4,428	4,236	4,320	4,389	4,562	4,497	4,668	4,671	4,521	4,560	4,665	4,826	5,160
Unknown	0	1	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
Plurality																	
Single births	9,168	9,268	9,090	9,066	8,685	8,500	8,496	8,477	8,902	8,939	9,098	9,162	8,880	8,964	9,247	9,428	9,984
Multiple births	253	215	291	248	253	251	250	262	314	305	323	369	362	324	335	392	412
Unknown	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0
Birth weight (grams)																	
<2,500	1,169	1,171	1,163	1,203	1,103	1,126	1,207	1,183	1,238	1,182	1,186	1,226	1,195	1,226	1,301	1,311	1,452
<1,500	257	253	284	241	255	227	268	241	264	275	268	274	242	297	281	318	327
1,500-2,499	912	918	879	962	848	899	939	942	974	907	918	952	953	929	1,020	993	1,125
>=2,500	8,237	8,299	8,207	8,104	7,789	7,577	7,454	7,507	7,925	8,019	8,180	8,256	8,003	8,031	8,247	8,479	8,904
Unknown	15	13	12	7	46	49	85	49	53	43	55	49	45	31	34	30	40
Gestational age (weeks)																	
<37	1,795	1,758	1,757	1,733	1,619	1,572	1,630	1,625	1,677	1,688	1,740	1,738	1,702	1,766	1,812	1,858	1,969
<32	412	419	446	417	409	385	401	383	382	406	368	408	360	394	398	410	453
32-36	1,383	1,339	1,311	1,316	1,210	1,187	1,229	1,242	1,295	1,282	1,372	1,330	1,342	1,372	1,414	1,448	1,516
>=37	7,594	7,723	7,624	7,579	7,319	7,178	7,115	7,114	7,539	7,551	7,680	7,793	7,541	7,518	7,770	7,960	8,424
Unknown	32	2	1	2	0	2	1	0	0	5	1	0	0	4	0	2	3
Age of mother (years)																	
<20	2,601	2,662	2,645	2,563	2,472	2,371	2,381	2,228	2,355	2,221	2,068	1,968	1,842	1,837	1,887	1,859	2,038
<18	1,174	1,203	1,193	1,189	1,163	1,086	1,067	993	949	872	780	758	713	645	732	667	744
18-19	1,427	1,459	1,452	1,374	1,309	1,285	1,314	1,235	1,406	1,349	1,288	1,210	1,129	1,192	1,155	1,192	1,294
>=20	6,807	6,816	6,728	6,748	6,461	6,379	6,362	6,507	6,861	7,020	7,353	7,563	7,401	7,451	7,686	7,961	8,354
20-24	3,182	3,257	3,263	3,197	3,097	2,955	2,964	2,996	3,221	3,303	3,430	3,550	3,430	3,379	3,422	3,540	3,654
25-29	2,100	2,008	1,898	1,895	1,806	1,707	1,767	1,843	2,002	2,034	2,164	2,215	2,133	2,154	2,306	2,373	2,552
30-34	1,113	1,105	1,080	1,161	1,078	1,129	1,057	1,092	1,035	1,075	1,139	1,137	1,190	1,251	1,294	1,354	1,399
>=35	412	446	487	495	480	588	574	576	603	608	620	661	648	667	664	694	749
Unknown	13	5	9	3	5	2	3	4	0	3	0	0	0	0	9	0	4
Age / Education (years)																	
<20 / <appropriate	446	439	493	442	428	403	429	401	492	445	422	401	371	408	360	384	411
<20 / appropriate	2,093	2,159	2,119	2,082	1,995	1,912	1,890	1,783	1,841	1,739	1,614	1,551	1,456	1,402	1,511	1,447	1,590
>=20 / <12	1,155	1,138	1,156	1,180	1,065	997	1,088	1,083	1,213	1,246	1,324	1,405	1,469	1,443	1,540	1,570	1,573
>=20 / 12	3,286	3,212	3,148	3,074	2,864	2,681	2,702	2,710	2,873	2,935	3,108	3,127	2,969	2,925	3,066	3,125	3,239
>=20 / >12	2,252	2,358	2,350	2,377	2,377	2,563	2,435	2,594	2,686	2,733	2,840	2,983	2,926	3,015	3,005	3,167	3,444
Unknown	189	177	116	159	209	196	202	168	111	146	113	64	52	95	100	127	139

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-4. Live births and infant deaths by selected characteristics of infant and mother among blacks: Indiana, 1990-2006--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Education (years)																	
<12	2,810	2,852	2918	2,866	2,699	2,552	2,613	2,526	2,730	2,626	2,582	2,653	2,612	2,570	2,698	2,664	2,803
0-8	207	219	226	191	222	206	192	160	183	173	158	137	166	156	169	151	167
9-11	2,603	2,633	2692	2,675	2,477	2,346	2,421	2,366	2,547	2,453	2,424	2,516	2,446	2,414	2,529	2,513	2,636
=12	4,071	3,995	3902	3,794	3,568	3,347	3,390	3,362	3,582	3,647	3,773	3,739	3,518	3,524	3,689	3,754	3,915
>12	2,364	2,464	2451	2,496	2,467	2,659	2,543	2,687	2,793	2,828	2,953	3,075	3,061	3,099	3,104	3,275	3,543
13-15	1,871	1,975	1951	1,908	1,894	2,033	1,915	1,965	2,098	2,103	2,149	2,255	2,203	2,232	2,195	2,330	2,477
>=16	493	489	500	588	573	626	628	722	695	725	804	820	858	867	909	945	1,066
Unknown	176	172	111	158	204	194	200	164	111	143	113	64	52	95	91	127	135
Live-birth order																	
First	3,527	3,555	3525	3,451	3,461	3,587	3,361	3,325	3,430	3,306	3,259	3,440	3,248	3,299	3,487	3,541	3,834
Second	2,752	2,805	2773	2,777	2,509	2,390	2,524	2,450	2,634	2,673	2,684	2,701	2,545	2,612	2,629	2,621	2,864
Third	1,683	1,692	1606	1,681	1,541	1,461	1,503	1,532	1,658	1,728	1,846	1,758	1,789	1,732	1,764	1,826	1,842
Fourth+	1,390	1,374	1430	1,346	1,386	1,286	1,279	1,345	1,460	1,509	1,613	1,615	1,657	1,636	1,699	1,825	1,845
Unknown	69	57	48	59	41	28	79	87	34	28	19	17	4	9	3	7	11
Marital status																	
Married	2,445	2,267	2165	2,183	1,935	2,020	1,980	2,095	2,094	2,122	2,271	2,306	2,166	2,201	2,116	2,188	2,266
Unmarried	6,972	7,212	7215	7,130	7,000	6,730	6,762	6,644	7,120	7,122	7,148	7,225	7,073	7,085	7,465	7,630	8,130
Unknown	4	4	2	1	3	2	4	0	2	0	2	0	4	2	1	2	0
Prenatal care began																	
First trimester	5,468	5,320	5746	5,801	5,609	5,699	5,385	5,593	5,890	6,056	6,323	6,392	6,341	6,337	6,432	6,363	6,817
After first trimester	3,115	3,364	3,085	2,986	2811	2576	2689	2646	2891	2756	2714	2750	2540	2572	2698	2944	3083
Second trimester	2,584	2,729	2604	2,522	2,342	2,192	2,243	2,216	2,379	2,287	2,233	2,258	2,126	2,071	2,233	2,452	2,556
Third trimester	531	635	481	464	469	384	446	430	512	469	481	492	414	501	465	492	527
No care	348	407	275	266	254	222	250	230	245	183	186	192	210	191	220	193	334
Unknown	490	392	276	261	264	255	422	270	190	249	198	197	152	188	232	320	162
Prenatal care index[1]																	
Adequate plus	1,934	1,827	1986	1,990	2,056	2,212	2,237	2,401	2,690	2,694	2,736	2,731	2,797	2,802	2,879	2,977	2,829
Adequate	2,616	2,567	2730	2,809	2,627	2,684	2,432	2,557	2,679	2,772	2,942	2,948	2,880	2,908	2,982	2,913	3,122
Intermediate	1,434	1,536	1641	1,689	1,387	1,305	1,115	1,142	1,167	1,097	1,206	1,266	1,212	1,258	1,312	1,250	1,500
Inadequate	2,252	2,403	2102	1,990	1,880	1,732	1,783	1,807	1,937	1,870	1,849	1,844	1,748	1,758	1,778	1,982	2,264
No care	348	407	275	266	254	222	250	230	245	183	186	192	210	191	220	193	334
Unknown	837	743	648	570	734	597	929	602	498	628	502	550	396	371	411	505	347
Maternal smoking																	
Smoking	2,158	1,892	1,828	1,735	1,545	1,440	1,443	1,254	1,506	1,460	1,435	1,483	1,402	1,411	1,380	1,370	1,382
Not smoking	7,176	7,518	7,516	7,525	7,350	7,272	7,282	7,462	7,680	7,759	7,940	8,017	7,810	7,866	8,172	8,422	8,989
Unknown	87	73	38	54	43	40	21	23	30	25	46	31	31	11	30	28	25

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-4. Live births and infant deaths by selected characteristics among blacks: Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Total	159	174	180	151	156	138	142	124	137	143	136	114	131	132	151	143	178
Sex																	
Male	88	99	108	85	90	78	74	72	69	79	79	62	73	81	77	76	86
Female	71	74	72	66	66	60	68	52	67	64	57	51	57	51	74	67	92
Unknown	0	1	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0
Plurality																	
Single births	136	153	160	138	132	126	122	112	121	120	127	101	106	106	134	115	152
Multiple births	23	21	20	13	24	12	20	12	16	23	9	13	25	26	17	28	26
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Birth weight (grams)																	
<2,500	101	121	125	103	94	95	90	82	102	96	81	79	86	95	116	114	128
<1,500	78	102	106	78	76	74	80	73	84	80	61	71	69	78	89	96	104
1,500-2,499	23	19	19	25	18	21	10	9	18	16	20	8	17	17	27	18	24
>=2,500	49	44	48	42	51	31	45	35	28	42	45	30	36	33	26	23	39
Unknown	9	9	7	6	11	12	7	7	7	5	10	5	9	4	9	6	11
Gestational age (weeks)																	
<37	104	135	134	104	111	102	98	88	108	98	86	82	99	94	120	112	139
<32	85	109	109	83	93	89	83	77	93	84	68	77	80	82	104	99	115
32-36	19	26	25	21	18	13	15	11	15	14	18	5	19	12	16	13	24
>=37	52	39	46	46	45	35	43	36	29	45	49	32	32	37	31	31	37
Unknown	3	0	0	1	0	1	1	0	0	0	1	0	0	1	0	0	2
Age of mother (years)																	
<20	43	53	50	45	49	32	50	36	29	32	28	34	25	26	28	24	28
<18	15	32	27	20	26	14	21	14	15	14	14	14	10	12	10	8	12
18-19	28	21	23	25	23	18	29	22	14	18	14	20	15	14	18	16	16
>=20	116	121	128	106	107	106	92	88	108	111	108	80	106	106	123	119	150
20-24	61	55	55	48	64	51	41	40	50	51	50	31	50	49	57	47	71
25-29	28	31	35	34	22	25	25	23	24	30	29	23	32	30	41	39	42
30-34	21	20	24	19	17	16	17	14	16	20	17	8	11	18	18	19	24
>=35	6	15	14	5	4	14	9	11	18	10	12	18	13	9	7	14	13
Unknown	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Age / Education (years)																	
<20 / <appropriate	6	11	11	5	6	3	13	14	5	5	4	6	7	3	7	4	4
<20 / appropriate	32	35	36	35	41	27	31	20	23	24	21	26	18	21	19	19	23
>=20 / <12	20	18	32	17	23	16	21	18	20	22	21	8	27	23	29	28	27
>=20 / 12	56	51	58	50	41	47	38	30	46	47	49	35	40	45	38	39	65
>=20 / >12	30	44	38	33	36	36	30	33	36	36	33	33	37	36	55	49	55
Unknown	15	15	5	11	9	9	9	9	7	9	8	6	2	4	3	4	4

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-4. Live births and infant deaths by selected characteristics among blacks: Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Education (years)																	
<12	39	52	69	39	53	38	51	46	38	43	39	28	46	42	47	43	46
0-8	4	9	8	1	5	3	5	4	4	4	1	0	0	2	4	1	2
9-11	35	43	61	38	48	35	46	42	34	39	38	28	46	40	43	42	44
=12	70	62	67	66	56	54	51	34	55	53	58	46	43	50	45	46	71
>12	35	45	39	35	38	37	31	35	37	38	34	34	40	36	56	50	57
13-15	27	34	30	24	31	29	27	28	28	31	25	27	30	26	46	39	46
>=16	8	11	9	11	7	8	4	7	9	7	9	7	10	10	10	11	11
Unknown	15	15	5	11	9	9	9	9	7	9	5	6	2	4	3	4	4
Live-birth order																	
First	59	67	66	51	55	54	52	50	45	52	49	42	31	48	56	53	78
Second	44	61	46	46	44	37	41	33	33	35	33	30	35	36	45	29	42
Third	23	21	31	25	29	21	24	25	28	29	29	20	32	29	23	26	27
Fourth+	29	22	34	23	27	25	24	15	28	26	22	22	33	19	27	35	31
Unknown	4	3	3	6	1	1	1	1	3	1	3	0	0	0	0	0	0
Marital status																	
Married	36	44	43	27	18	22	28	25	30	31	23	26	22	30	28	29	36
Unmarried	123	130	136	124	138	116	114	99	107	112	113	88	109	102	123	114	142
Unknown	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prenatal care began																	
First trimester	79	90	106	73	96	88	72	74	85	83	88	80	80	82	107	92	117
After first trimester	42	37	42	47	35	28	37	31	28	31	28	23	32	27	23	32	31
Second trimester	35	31	38	44	32	25	26	22	25	27	25	20	25	21	20	31	27
Third trimester	7	6	4	3	3	3	11	9	3	4	3	3	7	6	3	1	4
No care	19	23	18	16	20	15	17	12	15	11	11	5	13	12	12	11	19
Unknown	19	24	14	15	5	7	16	7	9	18	9	6	6	11	9	8	11
Prenatal care index[1]																	
Adequate plus	37	51	50	47	43	42	40	38	53	50	51	46	47	51	56	62	65
Adequate	23	21	30	23	32	21	19	25	22	20	23	20	17	19	30	18	32
Intermediate	13	18	22	17	15	14	8	6	7	5	12	8	12	11	13	13	10
Inadequate	37	24	26	24	24	21	24	26	15	21	17	15	21	18	14	20	21
No care	19	23	18	16	20	15	17	12	15	11	11	5	13	12	12	11	19
Unknown	30	37	34	24	22	25	34	17	25	36	22	20	21	21	26	19	31
Maternal smoking																	
Smoking	43	46	48	34	30	31	30	18	31	29	26	27	38	27	27	21	26
Not smoking	110	122	127	110	121	106	112	105	103	114	106	86	92	105	122	120	152
Unknown	6	6	5	7	5	1	0	1	3	0	4	1	1	0	2	2	0

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-5. Live births and infant deaths by selected characteristics of infant and mother among non-Hispanic whites: Indiana, 1990-2006

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Total	73,623	73,409	71,759	71,056	69,886	70,488	69,321	69,252	69,760	69,973	71,182	68,926	67,655	68,465	68,253	67,296	68,586
Sex																	
Male	37,860	37,560	37,004	36,537	35,854	36,239	35,422	35,270	35,540	35,825	36,753	35,349	34,548	35,193	35,158	34,656	35,131
Female	35,762	35,839	34,753	34,519	34,032	34,247	33,897	33,982	34,218	34,147	34,428	33,575	33,106	33,268	33,095	32,639	33,455
Unknown	1	10	2	0	0	2	2	0	2	1	1	2	1	4	0	1	0
Plurality																	
Single births	71,869	71,592	70,080	69,265	68,173	68,615	67,497	67,356	67,692	67,655	68,962	66,679	65,236	66,083	65,791	64,915	66,287
Multiple births	1,736	1,815	1,676	1,791	1,711	1,873	1,824	1,896	2,068	2,318	2,220	2,247	2,419	2,382	2,462	2,380	2,299
Unknown	18	2	3	0	2	0	0	0	0	0	0	0	0	0	0	1	0
Birth weight (grams)																	
<2,500	4,261	4,364	4,274	4,404	4,316	4,818	4,741	4,848	5,041	5,039	4,844	4,794	4,716	4,991	5,122	5,202	5,145
<1,500	697	742	676	804	735	780	814	788	832	865	862	820	829	834	847	870	798
1,500-2,499	3,564	3,622	3,598	3,600	3,581	4,038	3,927	4,060	4,209	4,174	3,982	3,974	3,887	4,157	4,275	4,332	4,347
>=2,500	69,309	69,017	67,441	66,611	65,462	65,481	64,228	64,117	64,453	64,623	66,028	63,820	62,702	63,200	62,870	61,849	63,179
Unknown	53	28	44	41	108	189	352	287	266	311	310	312	237	274	261	245	262
Gestational age (weeks)																	
<37	6,635	6,861	6,795	7,056	6,944	7,124	6,987	7,189	7,607	7,913	8,116	8,124	8,147	8,572	8,709	8,779	8,668
<32	1,049	1,130	1,089	1,211	1,041	1,106	1,174	1,130	1,150	1,234	1,199	1,179	1,196	1,263	1,258	1,287	1,182
32-36	5,586	5,731	5,706	5,845	5,903	6,018	5,813	6,059	6,457	6,679	6,917	6,945	6,951	7,309	7,451	7,492	7,486
>=37	66,905	66,515	64,934	63,974	62,918	63,336	62,324	62,055	62,150	62,058	63,063	60,798	59,504	59,887	59,535	58,509	59,915
Unknown	83	33	30	26	24	28	10	8	3	2	3	4	4	6	9	8	3
Age of mother (years)																	
<20	9,467	9,290	8,764	8,805	8,912	9,228	8,866	8,719	8,482	8,180	7,913	7,248	6,891	6,627	6,579	6,559	6,574
<18	3,004	2,947	2,918	2,884	3,090	3,270	3,019	2,989	2,641	2,496	2,377	2,062	2,015	1,931	1,765	1,777	1,789
18-19	6,463	6,343	5,846	5,921	5,822	5,958	5,847	5,730	5,841	5,684	5,536	5,186	4,876	4,696	4,814	4,782	4,785
>=20	64,093	64,104	62,971	62,239	60,923	61,256	60,452	60,529	61,269	61767	63,258	61,674	60,758	61,828	61,643	60,733	62,000
20-24	21,286	21,435	21,110	20,681	19,884	19,416	18,747	18,539	18,975	19,038	19,651	19,003	18,875	19,054	18,881	18,600	19,278
25-29	24,128	23,189	22,336	21,522	20,319	20,687	20,416	20,757	20,968	21,033	21,025	20,128	19,599	20,176	20,261	20,341	21,075
30-34	13,881	14,359	14,280	14,419	14,861	14,894	14,754	14,510	14,480	14,552	15,010	15,294	14,970	15,282	15,008	14,438	14,182
>=35	4,798	5,121	5,245	5,617	5,859	6,259	6,535	6,723	6,846	7,144	7,572	7,249	7,314	7,316	7,493	7,354	7,465
Unknown	63	15	24	12	51	4	3	4	9	26	11	4	6	10	31	4	12
Age / Education (years)																	
<20 / <appropriate	3,084	2,992	2,698	2,497	2,379	2,414	2,473	2,477	2,477	2,358	2,249	2,140	2,073	1,865	1,937	1,898	1,837
<20 / appropriate	6,318	6,247	6,029	6,257	6,434	6,729	6,281	6,170	5,942	5,751	5,594	5,067	4,770	4,704	4,589	4,595	4,640
>=20 / <12	8,625	8,617	8,246	7,905	7,198	7,179	7,067	7,155	7,555	7,545	7,852	7,689	7,531	7,851	7,732	7,838	7,961
>=20 / 12	29,403	28,836	27,540	26,382	24,667	23,743	22,500	22,247	21,760	21,746	21,644	20,536	19,813	19,130	19,048	18,252	18,218
>=20 / >12	25,824	26,471	27,011	27,664	28,211	29,627	30,269	30,643	31,557	32,072	33,426	33,227	33,178	34,558	34,552	34,223	35,199
Unknown	369	246	235	351	997	796	731	560	469	501	417	267	290	357	395	490	731

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-5. Live births and infant deaths by selected characteristics of infant and mother among non-Hispanic whites: Indiana, 1990-2006--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Education (years)																	
<12	14,570	14,488	13,741	13,277	12,561	12,741	12,402	12,468	12,500	12,347	12,366	11,825	11,548	11,668	11,510	11,614	11,672
0-8	2,280	2,449	2,404	2,320	2,271	2,358	2,240	2,274	2,377	2,313	2,480	2,348	2,390	2,453	2,354	2,475	2,440
9-11	12,290	12,039	11,337	10,957	10,290	10,383	10,162	10,194	10,123	10,034	9,886	9,477	9,158	9,215	9,156	9,139	9,232
=12	32,592	31,867	30,438	29,410	27,763	26,879	25,497	25,140	24,739	24,609	24,501	23,155	22,230	21,455	21,412	20,535	20,546
>12	26,155	26,824	27,366	28,030	28,618	30,075	30,694	31,088	32,061	32,540	33,909	33,682	33,591	34,994	34,966	34,660	35,648
13-15	14,212	14,513	14,752	14,846	14,845	15,569	15,816	15,629	16,050	16,066	16,466	16,249	15,932	16,498	16,315	16,009	16,671
>=16	11,943	12,311	12,614	13,184	13,773	14,506	14,878	15,459	16,011	16,474	17,443	17,433	17,659	18,496	18,651	18,651	18,977
Unknown	306	230	214	339	944	793	728	556	460	477	406	264	286	348	365	487	720
Live-birth order																	
First	30,280	30,216	29,166	28,980	28,755	29,302	28,247	27,875	27,565	27,121	27,886	26,654	25,896	26,515	26,690	26,303	26,751
Second	24,837	24,499	24,194	23,692	23,300	23,439	22,980	22,870	23,325	23,696	23,517	22,994	22,671	22,370	22,173	21,725	21,985
Third	11,881	11,895	11,756	11,636	11,234	11,184	11,484	11,541	11,921	12,194	12,561	12,020	11,949	12,206	12,001	11,821	12,175
Fourth+	6,098	6,281	6,094	6,020	5,979	6,212	6,167	6,520	6,732	6,859	7,157	7,199	7,086	7,340	7,356	7,412	7,622
Unknown	527	518	549	728	618	351	443	446	217	103	61	59	53	34	33	35	53
Marital status																	
Married	58,817	57,147	55,040	53,330	52,049	51,949	50,807	50,489	50,350	49,856	50,948	48,663	47,130	47,329	46,143	44,721	44,843
Unmarried	14,733	16,235	16,674	17,717	17,817	18,529	18,466	18,750	19,382	20,114	20,212	20,256	20,502	21,133	22,110	22,552	23,740
Unknown	73	27	45	9	20	10	48	13	28	3	22	7	23	3	0	23	3
Prenatal care began																	
First trimester	58,731	58,410	57,700	57,553	57,054	57,720	56,300	56,110	56,826	57,664	59,243	57,269	56,669	57,413	56,546	55,823	55,690
After first trimester	12,892	13,241	12,576	11,994	11,308	11,253	11,267	11,437	11,620	11,196	11,092	10,836	10,058	10,053	10,483	10,167	11,253
Second trimester	10,901	11,303	10,780	10,298	9,708	9,658	9,632	9,734	9,842	9,546	9,422	9,244	8,648	8,435	8,589	8,617	9,359
Third trimester	1,991	1,938	1,796	1,696	1,600	1,595	1,635	1,703	1,778	1,650	1,670	1,592	1,410	1,618	1,894	1,550	1,894
No care	600	734	454	453	462	457	433	439	396	377	353	348	283	257	350	319	632
Unknown	1,400	1,024	1,029	1,056	1,062	1,058	1,321	1,266	918	736	494	473	645	742	874	987	1,011
Prenatal care index[1]																	
Adequate plus	16,210	15,813	15,732	16,289	16,575	17,705	17,989	19,499	21,320	21,457	22,038	21,496	21,631	21,843	21,326	21,964	21,398
Adequate	34,307	34,694	34,363	34,158	34,039	33,838	32,356	31,475	30,811	31,334	31,808	30,536	30,271	30,100	29,544	28,163	28,747
Intermediate	12,409	12,608	12,161	11,312	10,293	9,864	9,120	8,547	8,260	8,241	8,744	8,440	7,892	8,588	8,728	8,639	8,796
Inadequate	7,802	7,797	7,187	6,938	6,432	6,484	6,595	6,708	6,886	6,509	6,711	6,510	6,100	6,229	6,631	6,371	7,184
No care	600	734	454	453	462	457	433	439	396	377	353	348	283	257	350	319	632
Unknown	2,295	1,763	1,862	1,906	2,085	2,140	2,828	2,584	2,087	2,055	1,528	1,596	1,478	1,448	1,674	1,840	1,829
Maternal smoking																	
Smoking	20,276	19,496	18,495	17,751	16,853	16,566	15,594	15,990	16,011	15,911	15,821	15,415	14,369	14,089	13,881	13,771	13,710
Not smoking	53,082	53,640	53,040	53,036	52,725	53,638	53,447	53,030	53,579	53,862	55,129	53,316	53,149	54,235	54,230	53,383	54,746
Unknown	265	273	224	269	308	284	280	232	170	200	232	195	137	141	142	142	130

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-5. Live births and infant deaths by selected characteristics of infant and mother among non-Hispanic whites: Indiana, 1990-2006--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Total	622	574	565	553	519	501	516	498	442	471	483	476	449	456	452	479	455
Sex																	
Male	366	323	338	328	286	285	300	273	255	288	257	271	242	266	237	273	252
Female	255	248	225	225	233	216	214	225	187	183	225	205	207	189	215	206	203
Unknown	1	3	2	0	0	0	2	0	0	0	1	0	0	1	0	0	0
Plurality																	
Single births	540	498	502	494	453	440	458	443	376	409	404	407	364	383	375	408	398
Multiple births	82	76	63	59	66	61	58	55	66	62	79	69	85	73	77	71	57
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Birth weight (grams)																	
<2,500	354	327	294	318	287	292	299	286	284	294	291	260	285	274	259	285	282
<1,500	249	220	226	222	207	205	217	203	213	211	200	185	225	198	187	217	202
1,500-2,499	105	107	68	96	80	87	82	83	71	83	91	75	60	76	72	66	80
>=2,500	249	236	252	225	214	192	192	189	140	159	165	190	149	160	162	171	158
Unknown	19	11	19	10	18	17	25	23	18	18	27	26	15	22	31	23	15
Gestational age (weeks)																	
<37	354	328	317	314	292	294	315	285	288	300	300	283	298	280	285	309	276
<32	263	233	233	231	222	215	243	222	225	219	217	213	231	215	212	240	210
32-36	91	95	84	83	70	79	72	63	63	81	83	70	67	65	73	69	66
>=37	266	245	247	237	225	205	196	213	151	170	182	192	148	176	164	165	177
Unknown	2	1	1	2	2	2	5	0	3	1	1	1	3	0	3	5	2
Age of mother (years)																	
<20	119	106	96	104	85	93	94	86	81	83	73	70	57	65	86	58	76
<18	37	34	43	39	37	44	41	33	30	25	27	16	19	20	33	11	25
18-19	82	72	53	65	48	49	53	53	51	58	46	54	38	45	53	47	51
>=20	503	468	468	449	434	408	422	412	360	388	410	406	391	391	366	421	379
20-24	198	180	167	180	168	145	137	146	132	144	141	139	156	144	131	153	142
25-29	165	161	148	144	138	136	148	130	110	107	124	119	108	104	111	131	115
30-34	105	89	97	85	80	83	99	91	89	83	82	88	86	92	71	82	82
>=35	35	38	56	40	48	44	38	45	29	54	63	60	41	51	53	55	40
Unknown	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0
Age / Education (years)																	
<20 / <appropriate	49	40	37	30	27	16	16	20	24	24	17	21	26	25	38	22	16
<20 / appropriate	67	62	57	71	55	77	75	64	56	57	55	45	31	39	43	34	57
>=20 / <12	96	91	81	81	100	61	73	93	86	84	72	81	72	67	79	75	78
>=20 / 12	240	227	216	192	186	173	160	152	133	152	148	147	144	149	131	165	137
>=20 / >12	160	142	168	169	142	158	171	154	129	145	176	174	158	167	150	173	149
Unknown	10	12	6	10	9	16	21	15	14	9	15	8	18	9	11	10	18

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-5. Live births and infant deaths by selected characteristics of infant and mother among non-Hispanic whites: Indiana, 1990-2006--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Education (years)																	
<12	178	159	152	155	153	127	131	149	143	136	113	121	113	114	141	115	128
0-8	31	30	25	28	39	20	20	25	27	14	20	30	17	25	30	30	20
9-11	147	129	127	127	114	107	111	124	116	122	93	91	96	89	111	85	108
=12	271	259	239	215	211	198	190	176	154	180	172	170	158	164	148	179	159
>12	163	144	168	173	146	160	174	158	132	146	183	177	160	169	152	175	150
13-15	92	79	83	108	83	87	89	82	80	78	100	90	85	94	71	96	73
>=16	71	65	85	65	63	73	85	76	52	68	83	87	75	75	81	79	77
Unknown	10	12	6	10	9	16	21	15	13	9	15	8	18	9	11	10	18
Live-birth order																	
First	238	217	210	199	196	230	202	211	169	202	195	171	177	166	179	178	194
Second	197	198	167	199	164	139	158	143	148	138	144	143	141	130	146	160	129
Third	108	105	119	91	88	75	102	83	69	79	90	100	81	80	62	79	67
Fourth+	66	47	64	57	66	51	52	53	52	51	52	61	46	78	64	61	61
Unknown	13	7	5	7	5	6	2	8	4	1	2	1	4	2	1	1	4
Marital status																	
Married	442	390	374	353	330	316	329	306	259	276	306	302	273	266	264	297	237
Unmarried	178	184	191	200	188	185	186	192	183	195	176	174	176	189	188	181	218
Unknown	2	0	0	0	1	0	1	0	0	0	1	0	0	1	0	1	0
Prenatal care began																	
First trimester	449	419	434	411	377	376	396	363	316	356	377	395	322	330	336	369	324
After first trimester	113	94	101	106	114	89	84	92	78	87	74	67	78	80	71	72	83
Second trimester	89	85	85	93	104	81	72	76	63	77	53	59	67	72	60	57	70
Third trimester	24	9	16	13	10	8	12	16	15	10	21	8	11	8	11	15	13
No care	24	22	14	15	12	14	11	16	23	11	10	3	12	13	19	8	13
Unknown	36	39	16	21	16	22	25	27	25	17	22	11	37	33	26	30	35
Prenatal care index[1]																	
Adequate plus	227	199	202	220	205	205	191	202	179	228	203	215	181	188	191	225	195
Adequate	153	162	169	150	127	129	142	110	94	94	118	123	109	91	100	97	99
Intermediate	72	66	59	58	50	46	45	42	30	29	30	40	33	42	33	33	39
Inadequate	77	58	61	58	67	49	52	52	44	45	54	38	42	49	39	48	48
No care	24	22	14	15	12	14	11	16	23	11	10	3	12	13	19	8	13
Unknown	69	67	60	52	58	58	75	76	72	64	68	57	72	73	70	68	61
Maternal smoking																	
Smoking	239	191	192	185	188	165	171	155	162	162	156	141	152	141	138	127	129
Not smoking	369	374	368	359	328	332	336	338	279	305	322	332	197	313	311	351	322
Unknown	14	9	5	9	3	4	9	5	1	4	5	3	0	2	3	1	4

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-6. Live births and infant deaths by selected characteristics of infant and mother among non-Hispanic blacks: Indiana, 1990-2006

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Total	9,347	9,435	9,358	9,289	8,908	8,695	8,686	8,708	9,172	9,200	9,368	9,495	9,205	9,246	9,534	9,746	10,329
Sex																	
Male	4,735	4,821	4,803	4,795	4,495	4,495	4,396	4,337	4,631	4,727	4,729	4,843	4,699	4,702	4,895	4,956	5,203
Female	4,612	4,613	4,555	4,494	4,413	4,200	4,290	4,370	4,540	4,473	4,639	4,651	4,505	4,544	4,639	4,790	5,126
Unknown	0	1	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
Plurality																	
Single births	9,094	9,222	9,066	9,041	8,656	8,447	8,438	8,446	8,858	8,895	9,045	9,126	8,842	8,922	9,199	9,356	9,920
Multiple births	253	213	291	248	252	247	248	262	314	305	323	369	362	324	335	390	409
Unknown	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0
Birth weight (grams)																	
<2,500	1,160	1,164	1,161	1,201	1,097	1,116	1,200	1,180	1,232	1,179	1,181	1,224	1,193	1,224	1,297	1,306	1,446
<1,500	255	253	283	241	255	224	267	241	264	273	267	274	241	297	280	317	327
1,500-2,499	905	911	878	960	842	892	933	939	968	906	914	950	952	927	1,017	989	1,119
>=2,500	8,174	8,258	8,185	8,081	7,765	7,530	7,401	7,479	7,888	7,978	8,132	8,223	7,967	7,991	8,204	8,410	8,843
Unknown	13	13	12	7	46	49	85	49	52	43	55	48	45	31	33	30	40
Gestational age (weeks)																	
<37	1,786	1,747	1,752	1,728	1,616	1,564	1,626	1,622	1,672	1,677	1,729	1,731	1,698	1,758	1,807	1,844	1,959
<32	410	416	445	417	408	383	399	382	380	403	366	407	359	393	397	409	451
32-36	1,376	1,331	1,307	1,311	1,208	1,181	1,227	1,240	1,292	1,274	1,363	1,324	1,339	1,365	1,410	1,435	1,508
>=37	7,529	7,686	7,605	7,559	7,292	7,129	7,059	7,086	7,500	7,518	7,638	7,764	7,507	7,485	7,727	7,900	8,367
Unknown	32	2	1	2	0	2	1	0	0	5	1	0	0	3	0	2	3
Age of mother (years)																	
<20	2,575	2,643	2,640	2,558	2,463	2,359	2,369	2,219	2,343	2,211	2,058	1,960	1,834	1,827	1,879	1,847	2,020
<18	1,159	1,194	1,193	1,186	1,156	1,080	1,064	987	943	869	777	756	711	642	730	661	739
18-19	1,416	1,449	1,447	1,372	1,307	1,279	1,305	1,232	1,400	1,342	1,281	1,204	1,123	1,185	1,149	1,186	1,281
>=20	6,759	6,787	6,709	6,728	6,440	6,334	6,314	6,485	6,829	6,986	7,310	7,535	7,371	7,419	7,646	7,899	8,305
20-24	3,160	3,238	3,257	3,187	3,085	2,934	2,938	2,986	3,209	3,287	3,416	3,535	3,414	3,362	3,406	3,509	3,629
25-29	2,089	2,002	1,890	1,890	1,802	1,695	1,757	1,838	1,995	2,027	2,148	2,206	2,122	2,145	2,291	2,360	2,537
30-34	1,102	1,103	1,077	1,158	1,075	1,123	1,049	1,088	1,028	1,065	1,129	1,135	1,189	1,248	1,285	1,346	1,393
>=35	408	444	485	493	478	582	570	573	597	607	617	659	646	664	664	684	746
Unknown	13	5	9	3	5	2	3	4	0	3	0	0	0	0	9	0	4
Age / Education (years)																	
<20 / <appropriate	442	434	491	441	426	401	429	400	491	441	421	399	369	404	359	381	410
<20 / appropriate	2,075	2,146	2,116	2,078	1,989	1,902	1,880	1,775	1,830	1,734	1,605	1,545	1,450	1,396	1,504	1,438	1,573
>=20 / <12	1,146	1,133	1,154	1,178	1,056	992	1,078	1,078	1,209	1,245	1,318	1,402	1,461	1,436	1,535	1,563	1,565
>=20 / 12	3,269	3,192	3,141	3,066	2,858	2,663	2,686	2,699	2,862	2,924	3,097	3,113	2,955	2,912	3,045	3,101	3,215
>=20 / >12	2,239	2,356	2,343	2,367	2,371	2,544	2,416	2,589	2,670	2,714	2,816	2,972	2,918	3,003	2,991	3,137	3,429
Unknown	176	174	113	159	208	193	197	167	110	142	111	64	52	95	100	126	137

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-6. Live births and infant deaths by selected characteristics of infant and mother among non-Hispanic blacks: Indiana, 1990-2006--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Education (years)																	
<12	2,787	2,833	2913	2,860	2,683	2,538	2,599	2,514	2,719	2,618	2,573	2,645	2,598	2,553	2,689	2,649	2,786
0-8	201	217	226	191	218	204	191	158	181	171	156	137	163	153	168	150	165
9-11	2,586	2,616	2,687	2,669	2,465	2,334	2,408	2,356	2,538	2,447	2,417	2,508	2,435	2,400	2,521	2,499	2,621
=12	4,047	3,973	3893	3,785	3,561	3,326	3,368	3,349	3,567	3,634	3,757	3,723	3,503	3,511	3,664	3,726	3,884
>12	2,350	2,460	2444	2,486	2,461	2,640	2,524	2,682	2,776	2,809	2,927	3,063	3,052	3,087	3,090	3,245	3,526
13-15	1,862	1,972	1944	1,903	1,890	2,019	1,902	1,962	2,087	2,094	2,131	2,246	2,197	2,223	2,185	2,309	2,466
>=16	488	488	500	583	571	621	622	720	689	715	796	817	855	864	905	936	1,060
Unknown	163	169	108	158	203	191	195	163	110	139	111	64	52	95	91	126	133
Live-birth order																	
First	3,496	3,538	3519	3,440	3,452	3,561	3,341	3,311	3,410	3,288	3,238	3,423	3,234	3,283	3,469	3,512	3,813
Second	2,735	2,785	2769	2,772	2,502	2,378	2,506	2,442	2,623	2,657	2,666	2,692	2,528	2,602	2,618	2,604	2,832
Third	1,675	1,687	1602	1,678	1,536	1,452	1,491	1,527	1,648	1,720	1,841	1,755	1,787	1,721	1,751	1,813	1,835
Fourth+	1,381	1,371	1423	1,341	1,378	1,277	1,269	1,341	1,457	1,507	1,604	1,608	1,652	1,631	1,693	1,810	1,838
Unknown	60	54	45	58	40	27	79	87	34	28	19	17	4	9	3	7	11
Marital status																	
Married	2,428	2,254	2156	2,176	1,927	2,002	1,963	2,087	2,074	2,103	2,250	2,296	2,154	2,187	2,096	2,163	2,245
Unmarried	6,915	7,177	7200	7,113	6,979	6,691	6,719	6,621	7,096	7,097	7,116	7,199	7,047	7,057	7,437	7,581	8,084
Unknown	4	4	2	0	2	2	4	0	2	0	2	0	4	2	1	2	0
Prenatal care began																	
First trimester	5,435	5,289	5736	5,788	5,592	5,660	5,348	5,579	5,864	6,021	6,287	6,411	6,314	6,307	6,398	6,312	6,769
After first trimester	3,085	3,349	3,074	2,974	2,800	2,562	2,671	2,631	2,875	2,747	2,700	2,708	2,529	2,561	2,686	2,928	3,066
Second trimester	2,562	2,715	2595	2,513	2,334	2,182	2,227	2,206	2,367	2,281	2,220	2,229	2,115	2,061	2,226	2,442	2,542
Third trimester	523	634	479	461	466	380	444	425	508	466	480	479	414	500	460	486	524
No care	347	406	275	266	254	221	249	229	245	183	186	192	210	190	218	193	332
Unknown	480	391	273	261	262	252	418	269	188	249	195	184	152	188	232	313	162
Prenatal care index[1]																	
Adequate plus	1,919	1,809	1983	1,987	2,053	2,200	2,228	2,397	2,681	2,681	2,719	2,733	2,783	2,788	2,865	2,951	2,813
Adequate	2,600	2,552	2725	2,799	2,618	2,665	2,409	2,546	2,660	2,755	2,927	2,952	2,863	2,892	2,966	2,900	3,096
Intermediate	1,426	1,532	1640	1,686	1,380	1,297	1,110	1,139	1,165	1,093	1,201	1,266	1,210	1,253	1,309	1,235	1,487
Inadequate	2,237	2,397	2092	1,983	1,872	1,720	1,771	1,798	1,928	1,862	1,839	1,816	1,743	1,755	1,769	1,969	2,254
No care	347	406	275	266	254	221	249	229	245	183	186	192	210	190	218	193	332
Unknown	818	739	643	568	731	592	919	599	493	626	496	536	396	368	407	498	347
Maternal smoking																	
Smoking	2,146	1,884	1,825	1,729	1,539	1,430	1,436	1,252	1,499	1,456	1,433	1,477	1,396	1,406	1,373	1,361	1,372
Not smoking	7,124	7,481	7,496	7,506	7,328	7,226	7,229	7,433	7,643	7,720	7,889	7,987	7,778	7,830	8,132	8,357	8,932
Unknown	77	70	37	54	41	39	21	23	30	24	46	31	31	10	29	28	25

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-6. Live births and infant deaths by selected characteristics of infant and mother among non-Hispanic blacks: Indiana, 1990-2006--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Total	157	174	180	151	156	135	141	124	135	143	136	113	131	131	151	143	178
Sex																	
Male	87	99	108	85	90	76	74	72	67	79	79	62	73	80	77	76	86
Female	70	74	72	66	66	59	67	52	67	64	57	50	57	51	74	67	92
Unknown	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
Plurality																	
Single births	134	153	160	138	132	123	121	112	119	120	127	100	106	105	134	115	152
Multiple births	23	21	20	13	24	12	20	12	16	23	9	13	25	26	17	28	26
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Birth weight (grams)																	
<2,500	100	121	125	103	94	92	90	82	101	96	81	79	86	94	116	114	128
<1,500	77	102	106	78	76	72	80	73	84	80	61	71	69	78	89	96	104
1,500-2,499	23	19	19	25	18	20	10	9	17	16	20	8	17	16	27	18	24
>=2,500	49	44	48	42	51	31	44	35	28	42	45	29	36	33	26	23	39
Unknown	8	9	7	6	11	12	7	7	6	5	10	5	9	4	9	6	11
Gestational age (weeks)																	
<37	103	135	134	104	111	100	98	88	107	98	86	82	99	94	120	112	139
<32	84	109	109	83	93	87	83	77	92	84	68	77	80	82	104	99	115
32-36	19	26	25	21	18	13	15	11	15	14	18	5	19	12	16	13	24
>=37	51	39	46	46	45	34	42	36	28	45	49	31	32	36	31	31	37
Unknown	3	0	0	1	0	1	1	0	0	0	1	0	0	1	0	0	2
Age of mother (years)																	
<20	43	53	50	45	49	32	50	36	29	32	28	33	25	26	28	24	28
<18	15	32	27	20	26	14	21	14	15	14	14	13	10	12	10	8	12
18-19	28	21	23	25	23	18	29	22	14	18	14	20	15	14	18	16	16
>=20	114	121	128	106	107	103	91	88	106	111	108	80	106	105	123	119	150
20-24	59	55	55	48	64	51	40	40	50	51	50	31	50	48	57	47	71
25-29	28	31	35	34	22	23	25	23	23	30	29	23	32	30	41	39	42
30-34	21	20	24	19	17	16	17	14	16	20	17	8	11	18	18	19	24
>=35	6	15	14	5	4	13	9	11	17	10	12	18	13	9	7	14	13
Unknown	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Age / Education (years)																	
<20 / <appropriate	6	11	11	5	6	3	13	14	5	5	4	6	7	3	7	4	4
<20 / appropriate	32	35	36	35	41	27	31	20	23	24	21	25	18	21	19	19	23
>=20 / <12	20	18	32	17	23	16	20	18	20	22	21	8	27	22	29	28	27
>=20 / 12	56	51	58	50	41	45	38	30	46	47	49	35	40	45	38	39	65
>=20 / >12	30	44	38	33	36	36	30	33	34	36	33	33	37	36	55	49	55
Unknown	13	15	5	11	9	8	9	9	7	9	8	6	2	4	3	4	4

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-6. Live births and infant deaths by selected characteristics of infant and mother among non-Hispanic blacks: Indiana, 1990-2006--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Education (years)																	
<12	39	52	69	39	53	38	50	46	38	43	39	27	46	41	47	43	46
0-8	4	9	8	1	5	3	5	4	4	4	1	0	0	1	4	1	2
9-11	35	43	61	38	48	35	45	42	34	39	38	27	46	40	43	42	44
=12	70	62	67	66	56	52	51	34	55	53	58	46	43	50	45	46	71
>12	35	45	39	35	38	37	31	35	35	38	34	34	40	36	56	50	57
13-15	27	34	30	24	31	29	27	28	26	31	25	27	30	26	46	39	46
>=16	8	11	9	11	7	8	4	7	9	7	9	7	10	10	10	11	11
Unknown	13	15	5	11	9	8	9	9	7	9	5	6	2	4	3	4	4
Live-birth order																	
First	59	67	66	51	55	54	52	50	44	52	49	41	31	47	56	53	78
Second	43	61	46	46	44	37	41	33	32	35	33	30	35	36	45	29	42
Third	23	21	31	25	29	19	23	25	28	29	29	20	32	29	23	26	27
Fourth+	29	22	34	23	27	25	24	15	28	26	22	22	33	19	27	35	31
Unknown	3	3	3	6	1	0	1	1	3	1	3	0	0	0	0	0	0
Marital status																	
Married	36	44	43	27	18	20	28	25	29	31	23	26	22	29	28	29	36
Unmarried	121	130	136	124	138	115	113	99	106	112	113	87	109	102	123	114	142
Unknown	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Prenatal care began																	
First trimester	78	90	106	73	96	86	72	74	83	83	88	80	80	81	107	92	117
After first trimester	42	37	42	47	35	28	36	31	28	31	28	22	32	27	23	32	31
Second trimester	35	31	38	44	32	25	25	22	25	27	25	19	25	21	20	31	27
Third trimester	7	6	4	3	3	3	11	9	3	4	3	3	7	6	3	1	4
No care	19	23	18	16	20	15	17	12	15	11	11	5	13	12	12	11	19
Unknown	18	24	14	15	5	6	16	7	9	18	9	6	6	11	9	8	11
Prenatal care index[1]																	
Adequate plus	37	51	50	47	43	42	40	38	52	50	51	46	47	51	56	62	65
Adequate	23	21	30	23	32	20	19	25	22	20	23	19	17	18	30	18	32
Intermediate	13	18	22	17	15	14	8	6	7	5	12	8	12	11	13	13	10
Inadequate	37	24	26	24	24	21	23	26	15	21	17	15	21	18	14	20	21
No care	19	23	18	16	20	15	17	12	15	11	11	5	13	12	12	11	19
Unknown	28	37	34	24	22	23	34	17	24	36	22	20	21	21	26	19	31
Maternal smoking																	
Smoking	43	46	48	34	30	31	29	18	30	29	26	27	38	27	27	21	26
Not smoking	109	122	127	110	121	104	112	105	102	114	106	85	92	104	122	120	152
Unknown	5	6	5	7	5	0	0	1	3	0	4	1	1	0	2	2	0

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-7. Live births and infant deaths by selected characteristics of infant and mother among Hispanics: Indiana, 1990-2006

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Total	1,915	1,832	1,939	2,124	2,311	2,525	2,941	3,393	3,781	4,383	5,427	5,865	6,145	6,763	7,237	8,026	8,488
Sex																	
Male	990	969	1,013	1,110	1,167	1,275	1,505	1,769	1952	2239	2,739	3,010	3,083	3,511	3,733	4,020	4,335
Female	925	863	926	1,014	1,144	1,250	1,436	1,624	1,829	2,144	2,687	2,855	3,062	3,252	3,504	4,005	4,153
Unknown	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
Plurality																	
Single births	1,875	1,798	1,901	2,065	2,275	2,464	2,864	3,309	3,694	4,271	5,339	5,742	6,042	6,612	7,080	7,849	8,305
Multiple births	39	34	38	59	36	61	77	84	87	112	88	123	103	151	157	177	183
Unknown	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Birth weight (grams)																	
<2,500	111	106	122	156	132	158	209	234	262	283	283	380	386	398	457	529	562
<1,500	18	20	22	39	25	22	50	45	46	62	52	81	75	60	91	99	90
1,500-2,499	93	86	100	117	107	136	159	189	216	221	231	299	311	338	366	430	472
>=2,500	1,803	1,725	1,816	1,968	2,173	2,350	2,715	3,139	3,499	4,084	5,114	5,465	5,736	6,342	6,752	7,460	7,890
Unknown	1	1	1	0	6	17	17	20	20	16	30	20	23	23	28	37	36
Gestational age (weeks)																	
<37	221	202	241	280	269	291	335	394	451	516	588	745	760	843	898	1,072	1,131
<32	31	31	42	47	48	41	82	72	67	97	102	133	124	108	155	161	164
32-36	190	171	199	233	221	250	253	322	384	419	486	612	636	735	743	911	967
>=37	1,693	1,630	1,697	1,843	2,042	2,231	2,605	2,999	3,328	3,867	4,839	5,120	5,384	5,919	6,339	6,954	7,357
Unknown	1	0	1	1	0	3	1	0	2	0	0	0	1	1	0	0	0
Age of mother (years)																	
<20	335	333	367	394	465	500	572	613	691	723	853	836	857	921	987	1,065	1,049
<18	118	141	138	148	182	181	223	248	269	259	275	294	294	330	328	384	368
18-19	217	192	229	246	283	319	349	365	422	464	578	542	563	591	659	681	681
>=20	1,575	1,498	1,572	1,729	1,843	2,025	2,369	2,779	3,089	3,660	4,573	5,029	5,288	5,841	6,243	6,961	7,437
20-24	567	593	622	696	774	900	1,016	1,171	1,270	1,538	1,990	2,068	2,099	2,256	2,289	2,427	2,618
25-29	538	462	470	527	533	602	715	906	999	1,146	1,425	1,685	1,796	1,920	2,143	2,424	2,457
30-34	330	306	327	356	379	352	429	471	544	674	754	851	948	1,146	1,213	1,444	1,584
>=35	140	137	153	150	157	171	209	231	276	302	404	425	445	519	598	666	778
Unknown	5	1	0	1	3	0	0	1	1	0	1	0	0	1	7	0	2
Age / Education (years)																	
<20 / <appropriate	114	88	130	121	172	182	215	257	291	309	418	424	464	451	455	478	469
<20 / appropriate	220	242	236	265	291	314	347	347	393	396	413	397	379	454	508	573	562
>=20 / <12	397	417	487	526	593	740	906	1,114	1,259	1,606	2,232	2,557	2,834	3,119	3,319	3,681	3,860
>=20 / 12	655	620	565	654	661	651	753	849	950	1,041	1,200	1,336	1,388	1,446	1,634	1,796	1,950
>=20 / >12	514	448	510	531	569	608	669	757	812	894	1,008	1,040	1,018	1,206	1,197	1,365	1,507
Unknown	15	17	11	27	25	30	51	69	76	137	156	111	62	87	124	133	140

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-7. Live births and infant deaths by selected characteristics of infant and mother among Hispanics: Indiana, 1990-2006--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Education (years)																	
<12	631	640	733	794	932	1,092	1,322	1,567	1,760	2,113	2,864	3,192	3,498	3,822	4,020	4,455	4,621
0-8	207	198	237	280	338	416	530	657	756	958	1,339	1,557	1,679	1,883	1,948	2,130	2,244
9-11	424	442	496	514	594	676	792	910	1,004	1,155	1,525	1,635	1,819	1,939	2,072	2,325	2,377
=12	749	719	666	751	770	768	877	976	1,094	1,212	1,373	1,496	1,546	1,624	1,866	2,037	2,200
>12	525	457	529	553	587	635	691	781	851	921	1,035	1,066	1,039	1,231	1,234	1,401	1,529
13-15	345	316	383	381	415	443	452	554	599	601	662	711	665	794	805	872	910
>=16	180	141	146	172	172	192	239	227	252	320	373	355	374	437	429	529	619
Unknown	10	16	9	26	22	30	51	69	76	137	155	111	62	86	117	133	138
Live-birth order																	
First	759	707	749	835	927	1,060	1,188	1,329	1,418	1,707	2,074	2,205	2,174	2,382	2,425	2,648	2,905
Second	555	539	578	631	693	740	902	1,009	1,157	1,292	1,607	1,763	1,877	2,008	2,204	2,460	2,505
Third	348	312	327	369	392	406	495	588	664	765	1,005	1,071	1,202	1,362	1,497	1,602	1,686
Fourth+	248	270	276	269	283	301	350	457	520	590	723	817	885	1,005	1,108	1,311	1,378
Unknown	5	4	9	20	16	18	6	10	22	29	18	9	7	6	3	5	14
Marital status																	
Married	1,275	1,161	1,211	1,327	1,351	1,469	1,717	2,018	2,179	2,404	2,851	3,057	3,089	3,363	3,418	3,651	3,827
Unmarried	637	670	726	795	958	1,056	1,219	1,374	1,596	1,979	2,576	2,808	3,056	3,400	3,819	4,372	4,661
Unknown	3	1	2	2	2	0	5	1	6	0	0	0	0	0	0	3	0
Prenatal care began																	
First trimester	1,307	1,266	1,275	1,439	1,562	1,636	1,895	2,194	2,386	2,755	3,269	3,628	3,926	4,370	4,426	5,014	5,330
After first trimester	531	507	617	609	634	788	906	1,053	1,243	1,450	1,925	2,033	2,037	2,186	2,547	2,729	2,828
Second trimester	424	406	508	501	515	635	714	824	992	1,130	1,510	1,671	1,633	1,753	2,020	2,190	2,339
Third trimester	107	101	109	108	119	153	192	229	251	320	415	362	404	433	527	539	489
No care	33	37	22	34	39	45	36	50	60	67	89	87	72	57	85	80	161
Unknown	44	22	25	42	76	56	103	96	92	111	144	117	110	150	179	203	169
Prenatal care index[1]																	
Adequate plus	375	366	445	458	471	537	567	655	833	916	1,065	1,223	1,361	1,594	1,467	1,835	1,761
Adequate	744	746	712	810	834	911	1,024	1,171	1,251	1,497	1,783	2,005	2,147	2,346	2,457	2,632	2,847
Intermediate	313	291	296	307	363	375	437	536	555	635	868	921	951	1,002	1,132	1,291	1,421
Inadequate	363	352	411	422	435	504	660	758	849	1,021	1,348	1,356	1,352	1,480	1,758	1,807	2,003
No care	33	37	22	34	39	45	36	50	60	67	89	87	72	57	85	80	161
Unknown	87	40	53	93	169	153	217	223	233	247	274	273	262	284	338	381	295
Maternal smoking																	
Smoking	261	239	219	213	222	205	222	215	248	231	278	262	260	259	262	265	233
Not smoking	1,647	1,590	1,713	1,906	2,082	2,310	2,717	3,176	3,525	4,146	5,146	5,597	5,880	6,502	6,972	7,761	8,252
Unknown	7	3	7	5	7	10	2	2	8	6	1	6	5	2	3	0	3

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-7. Live births and infant deaths by selected characteristics of infant and mother among Hispanics: Indiana, 1990-2006--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Total	15	12	16	26	14	22	27	22	26	35	25	39	42	33	56	57	44
Sex																	
Male	10	9	9	18	7	13	16	11	16	23	10	20	29	24	33	36	25
Female	5	3	7	8	7	9	11	11	10	12	15	19	13	9	23	21	19
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plurality																	
Single births	14	12	14	21	12	16	24	22	25	25	22	33	38	28	47	46	40
Multiple births	1	0	2	5	2	6	3	0	1	10	3	6	4	5	9	11	4
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Birth weight (grams)																	
<2,500	8	7	7	17	9	9	16	16	10	25	15	25	27	16	42	41	24
<1,500	5	5	5	15	8	6	15	12	9	23	13	20	22	11	34	29	20
1,500-2,499	3	2	2	2	1	3	1	4	1	2	2	5	5	5	8	12	4
>=2,500	7	4	9	9	5	11	9	6	14	8	7	12	9	12	12	14	18
Unknown	0	1	0	0	0	2	2	0	2	2	3	2	6	5	2	2	2
Gestational age (weeks)																	
<37	5	9	9	18	9	9	18	17	12	27	17	26	30	19	40	42	25
<32	4	6	5	15	8	8	18	14	10	25	14	22	28	15	35	33	20
32-36	1	3	4	3	1	1	0	3	2	2	3	4	2	4	5	9	5
>=37	10	3	7	8	5	11	8	5	14	8	8	13	12	14	16	15	19
Unknown	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0
Age of mother (years)																	
<20	4	2	4	4	3	6	7	9	7	5	6	3	4	7	9	14	4
<18	3	0	1	1	2	3	4	4	3	2	6	1	1	2	4	8	1
18-19	1	2	3	3	1	3	3	5	4	3	0	2	3	5	5	6	3
>=20	11	10	12	22	11	16	20	13	19	30	19	36	38	26	47	43	40
20-24	0	5	3	10	6	10	9	8	6	11	8	11	15	9	17	8	17
25-29	7	1	5	7	2	4	4	2	7	9	7	13	16	9	10	15	8
30-34	2	0	2	4	1	2	6	1	3	8	0	4	5	2	7	11	10
>=35	2	4	2	1	2	0	1	2	3	2	4	8	2	6	3	9	5
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Age / Education (years)																	
<20 / <appropriate	0	1	2	3	1	3	0	3	3	3	0	1	2	2	3	7	2
<20 / appropriate	4	1	2	1	2	3	7	6	4	2	6	2	2	5	5	7	2
>=20 / <12	5	2	6	10	3	5	9	3	6	17	9	18	20	17	28	23	18
>=20 / 12	2	6	5	6	6	8	2	6	6	11	7	11	11	4	12	11	11
>=20 / >12	4	2	1	6	2	3	8	3	4	2	2	6	6	4	5	8	9
Unknown	0	0	0	0	0	0	1	1	3	0	1	1	1	1	3	1	2

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table A-7. Live births and infant deaths by selected characteristics of infant and mother among Hispanics: Indiana, 1990-2006--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Education (years)																	
<12	8	3	8	14	6	10	13	11	12	21	13	20	23	22	35	35	20
0-8	3	2	4	8	3	4	3	3	2	9	9	14	8	10	18	19	12
9-11	5	1	4	6	3	6	10	8	10	12	4	6	15	12	17	16	8
=12	3	7	7	6	6	9	5	6	6	12	9	11	12	6	13	13	12
>12	4	2	1	6	2	3	8	4	5	2	2	7	6	4	5	8	10
13-15	2	2	1	2	2	3	4	3	5	1	0	4	5	2	3	6	7
>=16	2	0	0	4	0	0	4	1	0	1	2	3	1	2	2	2	3
Unknown	0	0	0	0	0	0	1	1	3	0	1	1	1	1	3	1	2
Live-birth order																	
First	8	3	3	8	2	5	13	13	7	16	13	14	14	15	19	21	10
Second	4	4	8	11	6	7	8	4	5	4	6	9	9	7	9	11	19
Third	2	2	3	0	2	6	4	1	7	6	2	7	9	5	9	9	7
Fourth+	1	3	2	6	4	4	2	4	5	9	3	8	9	6	19	16	8
Unknown	0	0	0	1	0	0	0	0	2	0	1	1	1	0	0	0	0
Marital status																	
Married	10	8	9	16	4	8	12	10	10	15	10	18	20	19	28	28	19
Unmarried	5	4	7	10	10	14	15	12	16	20	15	21	22	14	28	29	25
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prenatal care began																	
First trimester	9	11	9	16	5	12	19	16	18	23	11	21	24	17	33	39	31
After first trimester	5	0	7	6	4	8	2	2	4	9	12	9	9	9	12	12	11
Second trimester	5	0	7	5	3	7	2	1	3	9	10	9	8	7	11	11	11
Third trimester	0	0	0	1	1	1	0	1	1	0	2	0	1	2	1	1	0
No care	1	1	0	2	3	1	3	3	2	2	1	5	2	0	5	2	1
Unknown	0	0	0	2	2	1	3	1	2	1	1	4	7	7	6	7	1
Prenatal care index[1]																	
Adequate plus	6	8	8	6	2	3	9	7	10	11	4	11	14	9	17	24	20
Adequate	5	2	3	11	4	8	6	4	4	5	7	7	7	6	5	11	5
Intermediate	0	0	3	2	1	0	2	2	2	6	0	6	1	2	6	6	8
Inadequate	3	0	1	3	1	6	2	2	4	7	7	3	5	5	9	5	7
No care	1	1	0	2	3	1	3	3	2	2	1	5	2	0	5	2	1
Unknown	0	1	1	2	3	4	5	4	4	4	6	7	13	11	14	9	3
Maternal smoking																	
Smoking	3	3	4	5	5	1	3	2	5	0	0	2	3	2	2	2	1
Not smoking	12	9	12	21	8	20	24	20	21	35	25	37	39	31	54	55	43
Unknown	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table B-1. Live births, infant, neonatal, and postneonatal deaths by race and Hispanic origin of mother: Marion County, Indiana, 1990-2006 linked files

Race and Hispanic origin of mother	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Numbers								
All races/origins																	
Live births	15,148	14,998	14,700	14,342	14,072	13,919	13,948	13,884	13,917	14,183	14,608	14,373	14,540	14,701	14,868	14,653	15,545
Infant deaths	184	158	177	150	141	127	139	136	108	140	138	108	122	133	145	133	152
Neonatal deaths	120	103	123	88	89	86	93	97	79	92	97	66	84	88	103	99	107
Postneonatal deaths	64	55	54	62	52	41	46	39	29	48	41	42	38	45	42	34	45
White																	
Live births	10,902	10,768	10,586	10,310	10,262	10,122	10,054	9,980	9,837	9,942	10,223	9,974	10,220	10,268	10,360	10,176	10,648
Infant deaths	108	80	97	92	72	76	76	82	57	70	76	63	61	76	74	82	77
Neonatal deaths	65	49	65	58	47	48	52	61	38	41	52	40	42	49	50	62	54
Postneonatal deaths	43	31	32	34	25	28	24	21	19	29	24	23	19	27	24	20	23
White, Non-Hispanic																	
Live births	10,766	10,637	10,428	10,139	10,090	9,892	9,745	9,544	9,259	9,190	9,158	8,641	8,641	8,503	8,418	7,996	8,234
Infant deaths	106	80	96	88	72	76	72	80	55	60	71	59	59	71	62	59	67
Neonatal deaths	64	49	64	57	47	48	49	59	38	33	47	38	40	46	41	45	48
Postneonatal deaths	42	31	32	31	25	28	23	21	17	27	24	21	19	25	21	14	19
Black																	
Live births	3,925	3,988	3,913	3,807	3,560	3,520	3,568	3,614	3,755	3,903	4,022	4,069	3,976	4,024	4,114	4,128	4,473
Infant deaths	72	76	80	55	64	48	59	51	48	66	60	43	59	57	69	49	73
Neonatal deaths	52	53	58	30	38	35	38	33	40	48	44	26	40	39	51	35	51
Postneonatal deaths	20	23	22	25	26	13	21	18	8	18	16	17	19	18	18	14	22
Black, Non-Hispanic																	
Live births	3,895	3,974	3,907	3,799	3,558	3,505	3,560	3,610	3,740	3,893	4,005	4,057	3,962	4,011	4,098	4,105	4,452
Infant deaths	70	76	80	55	64	46	58	51	46	66	60	43	59	57	69	49	73
Neonatal deaths	50	53	58	30	38	33	38	33	38	48	44	26	40	39	51	35	51
Postneonatal deaths	20	23	22	25	26	13	20	18	8	18	16	17	19	18	18	14	22
Hispanic																	
Live births	240	155	134	184	182	238	338	441	589	811	1,111	1,346	1,598	1,784	1,957	2,200	2,437
Infant deaths	1	0	1	4	0	0	5	2	2	10	5	4	2	5	12	23	10
Neonatal deaths	0	0	1	1	0	0	3	2	1	8	5	2	2	3	9	17	6
Postneonatal deaths	1	0	0	3	0	0	2	0	1	2	0	2	0	2	3	6	4

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table B-2. Live births and infant deaths by selected characteristics among all races: Marion County, Indiana, 1990-2006 linked files

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Total	15,148	14,998	14,700	14,342	14,072	13,919	13,948	13,884	13,917	14,183	14,608	14,373	14,540	14,701	14,868	14,653	15,545
Sex																	
Male	7,662	7,670	7,608	7,345	7,175	7,177	7,105	7,062	7,121	7,369	7,305	7,369	7,402	7,543	7,688	7,512	7,994
Female	7,485	7,327	7,090	6,997	6,897	6,742	6,843	6,822	6,796	6,814	7,303	7,004	7,138	7,158	7,180	7,141	7,551
Unknown	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
Plurality																	
Single births	14,774	14,622	14,330	13,958	13,692	13,563	13,540	13,436	13,463	13,738	14,183	13,915	13,993	14,252	14,303	14,152	15,054
Multiple births	373	375	368	384	376	356	408	448	454	445	425	458	546	449	565	501	491
Unknown	1	1	2	0	4	0	0	0	0	0	0	0	1	0	0	0	0
Birth weight (grams)																	
<2,500	1,229	1,203	1,226	1,262	1,117	1,205	1,270	1,333	1,334	1,323	1,218	1,242	1,271	1,289	1,418	1,355	1,412
<1,500	223	211	225	224	221	206	230	230	227	272	238	242	216	234	269	269	261
1,500-2,499	1,006	992	1,001	1,038	896	999	1,040	1,103	1,107	1,051	980	1,000	1,055	1,055	1,149	1,086	1,151
>=2,500	13,876	13,784	13,464	13,074	12,905	12,652	12,581	12,496	12,536	12,803	13,322	13,103	13,228	13,385	13,419	13,263	14,082
Unknown	43	11	10	6	50	62	97	55	47	57	68	28	41	27	31	35	51
Gestational age (weeks)																	
<37	1,829	1,847	1,857	1,857	1,672	1,668	1,743	1,793	1,996	1,954	1,980	1,994	2,054	2,087	2,219	2,218	2,224
<32	353	349	365	346	306	309	344	335	328	377	319	346	326	347	391	369	373
32-36	1,476	1,498	1,492	1,511	1,366	1,359	1,399	1,458	1,668	1,577	1,661	1,648	1,728	1,740	1,828	1,849	1,851
>=37	13,256	13,146	12,841	12,483	12,396	12,250	12,205	12,090	11,920	12,228	12,627	12,377	12,486	12,614	12,648	12,432	13,318
Unknown	63	5	2	2	4	1	0	1	1	1	1	2	0	0	1	3	3
Age of mother (years)																	
<20	2,503	2,412	2,410	2,222	2,088	2,096	2,148	2,159	2,138	2,141	2,019	1,907	1,909	1,890	1,893	1,823	1,991
<18	967	977	942	890	833	910	874	833	771	756	711	674	657	623	575	607	692
18-19	1,536	1,435	1,468	1,332	1,255	1,186	1,274	1,326	1,367	1,385	1,308	1,233	1,252	1,267	1,318	1,216	1,299
>=20	12,638	12,585	12,272	12,110	11,978	11,819	11,798	11,721	11,778	12,040	12,589	12,466	12,630	12,811	12,972	12,827	13,552
20-24	4,338	4,277	4,126	4,036	3,942	3,626	3,693	3,671	3,704	3,917	4,214	4,262	4,332	4,299	4,339	4,273	4,585
25-29	4,580	4,394	4,222	4,031	3,862	3,853	3,791	3,783	3,933	3,869	3,966	3,884	3,951	4,009	4,111	4,085	4,419
30-34	2,765	2,847	2,860	2,860	2,960	3,040	2,935	2,854	2,738	2,780	2,808	2,820	2,857	2,982	2,971	2,990	2,985
>=35	955	1,067	1,064	1,183	1,214	1,300	1,379	1,413	1,403	1,474	1,601	1,500	1,490	1,521	1,551	1,479	1,563
Unknown	7	1	18	10	6	4	2	4	1	2	0	0	1	0	3	3	2
Age / Education (years)																	
<20 / <appropriate	778	692	749	615	519	537	583	619	687	642	637	613	651	635	660	678	668
<20 / appropriate	1,664	1,655	1,628	1,558	1,486	1,494	1,474	1,487	1,414	1,456	1,332	1,277	1,240	1,246	1,224	1,136	1,312
>=20 / <12	1,975	1,938	1,838	1,826	1,556	1,456	1,532	1,644	1,790	1,906	2,190	2,381	2,631	2,746	2,837	2,946	3,089
>=20 / 12	4,857	4,748	4,569	4,369	4,059	3,963	3,858	3,815	3,865	3,970	4,009	3,876	3,817	3,773	3,902	3,734	3,930
>=20 / >12	5,649	5,770	5,778	5,736	5,850	6,031	6,079	6,048	5,968	5,950	6,142	6,092	6,151	6,232	6,181	6,096	6,478
Unknown	225	195	138	238	602	438	422	271	193	259	298	134	50	69	64	63	68

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table B-2. Live births and infant deaths by selected characteristics among all races: Marion County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Education (years)																	
<12	3,699	3,595	3,527	3,291	2,874	2,849	2,932	3,089	3,209	3,293	3,484	3,641	3,911	3,990	4,072	4,185	4,420
0-8	382	386	391	359	311	312	318	374	446	476	599	708	849	928	963	1,050	1,109
9-11	3,317	3,209	3,136	2,932	2,563	2,537	2,614	2,715	2,763	2,817	2,885	2,933	3,062	3,062	3,109	3,135	3,311
=12	5,525	5,376	5,197	5,031	4,684	4,538	4,448	4,414	4,463	4,614	4,605	4,441	4,340	4,332	4,476	4,228	4,514
>12	5,700	5,833	5,849	5,789	5,915	6,097	6,147	6,114	6,053	6,019	6,221	6,157	6,239	6,310	6,259	6,179	6,545
13-15	2,831	2,776	2,865	2,740	2,695	2,802	2,784	2,792	2,723	2,724	2,743	2,856	2,803	2,802	2,745	2,780	2,898
>=16	2,869	3,057	2,984	3,049	3,220	3,295	3,363	3,322	3,330	3,295	3,478	3,301	3,436	3,508	3,514	3,399	3,647
Unknown	224	194	127	231	599	435	421	267	192	257	298	134	50	69	61	61	66
Live-birth order																	
First	6,391	6,297	6,196	5,992	6,046	6,185	5,874	5,763	5,769	5,849	6,007	5,973	5,951	6,002	6,156	6,066	6,456
Second	4,926	4,850	4,744	4,663	4,542	4,331	4,301	4,294	4,384	4,428	4,464	4,398	4,315	4,456	4,548	4,299	4,673
Third	2,332	2,419	2,303	2,271	2,184	2,071	2,164	2,197	2,219	2,384	2,530	2,394	2,515	2,535	2,410	2,477	2,523
Fourth+	1,386	1,334	1,358	1,284	1,229	1,278	1,297	1,340	1,435	1,474	1,585	1,590	1,749	1,704	1,750	1,804	1,881
Unknown	113	98	99	132	71	54	312	290	110	48	22	18	10	4	4	7	12
Marital status																	
Married	9,680	9,236	8,869	8,540	8,433	8,352	8,238	8,025	7,960	7,823	7,909	7,537	7,544	7,481	7,219	6,886	7,055
Unmarried	5,445	5,747	5,758	5,801	5,635	5,567	5,705	5,859	5,956	6,360	6,696	6,836	6,995	7,219	7,648	7,763	8,490
Unknown	23	15	73	1	4	0	5	0	1	0	3	0	1	1	1	4	0
Prenatal care began																	
First trimester	10,781	10,650	10,894	10,802	10,974	10,534	10,474	10,511	10,720	10,903	11,325	11,086	11,204	11,237	11,090	10,613	11,195
After first trimester	3,127	3,354	3,124	2,897	2,472	2,720	2,509	2,634	2,746	2,834	2,871	2,980	3,001	3,148	3,356	3,641	3,993
Second trimester	2,616	2,818	2,701	2,513	2,135	2,372	2,194	2,315	2,379	2,447	2,451	2,610	2,580	2,635	2,809	3,055	3,388
Third trimester	511	536	423	384	337	348	315	319	367	387	420	370	421	513	547	586	605
No care	323	350	219	165	154	142	128	137	157	145	149	173	166	149	201	162	271
Unknown	917	644	463	478	472	523	837	602	294	301	263	134	169	167	221	237	86
Prenatal care index[1]																	
Adequate plus	2,497	2,207	2,158	1,984	2,067	2,532	3,182	3,891	4,517	4,348	3,948	3,882	4,199	4,302	4,186	3,976	3,698
Adequate	5,755	5,710	5,855	6,040	6,619	6,235	5,757	5,504	5,328	5,608	6,162	5,861	5,876	6,001	6,043	5,786	6,147
Intermediate	3,050	3,372	3,527	3,334	2,621	2,430	1,795	1,642	1,509	1,417	1,785	1,982	1,937	1,936	1,943	2,008	2,392
Inadequate	2,167	2,197	1,959	1,836	1,533	1,568	1,490	1,614	1,678	1,804	1,865	1,892	1,944	2,016	2,154	2,392	2,852
No care	323	350	219	165	154	142	128	137	157	145	149	173	166	149	201	162	271
Unknown	1,356	1,162	982	983	1,078	1,012	1,596	1,096	728	861	699	583	418	297	341	329	185
Maternal smoking																	
Smoking	4,219	3,800	3,666	3,440	3,172	2,956	2,832	2,922	2,896	2,989	2,889	2,772	2,645	2,590	2,413	2,403	2,237
Not smoking	10,808	11,088	10,914	10,779	10,798	10,853	11,062	10,926	10,988	11,146	11,663	11,593	11,886	12,106	12,450	12,245	13,307
Unknown	121	110	120	123	102	110	54	36	33	48	56	8	9	5	5	5	1

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table B-2. Live births and infant deaths by selected characteristics among all races: Marion County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Total	184	158	177	150	141	127	139	136	108	140	138	108	122	133	145	133	152
Sex																	
Male	104	98	101	85	83	64	86	78	67	89	76	60	65	76	78	72	79
Female	79	60	74	65	58	63	53	58	41	51	62	48	57	57	67	61	73
Unknown	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plurality																	
Single births	160	143	155	125	124	116	116	122	97	120	121	90	101	111	120	106	142
Multiple births	24	15	22	25	13	11	23	14	11	20	17	18	21	22	25	27	10
Unknown	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
Birth weight (grams)																	
<2,500	114	105	106	94	78	81	89	84	77	90	87	70	80	87	97	96	100
<1,500	78	83	91	67	55	61	70	72	59	70	63	58	66	67	72	74	81
1,500-2,499	36	22	15	27	23	20	19	12	18	20	24	12	14	20	25	22	19
>=2,500	58	48	65	51	50	40	43	41	27	42	41	32	32	42	39	32	41
Unknown	12	5	6	5	13	6	7	11	4	8	10	6	10	4	9	5	11
Gestational age (weeks)																	
<37	108	114	116	88	84	82	100	94	80	93	93	74	91	87	102	97	106
<32	85	90	93	70	65	66	78	77	63	74	69	66	77	71	83	80	88
32-36	23	24	23	18	19	16	22	17	17	19	24	8	14	16	19	17	18
>=37	72	44	61	62	53	45	39	42	27	47	44	33	31	46	42	35	43
Unknown	4	0	0	0	4	0	0	0	1	0	1	1	0	0	1	1	3
Age of mother (years)																	
<20	48	42	42	31	27	30	39	23	20	26	22	21	22	24	36	23	22
<18	13	21	15	17	14	15	18	9	10	9	10	9	10	10	15	5	9
18-19	35	21	27	14	13	15	21	14	10	17	12	12	12	14	21	18	13
>=20	134	116	132	119	111	97	100	113	88	114	116	87	100	109	109	110	130
20-24	53	51	49	49	55	33	39	38	34	56	37	30	39	42	40	34	57
25-29	39	31	41	39	27	28	33	34	25	33	42	24	34	25	38	37	40
30-34	34	24	26	21	18	22	23	28	19	17	22	21	14	28	20	19	21
>=35	8	10	16	10	11	14	5	13	10	8	15	12	13	14	11	20	12
Unknown	2	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0
Age / Education (years)																	
<20 / <appropriate	20	14	16	9	3	10	9	6	4	5	4	6	11	13	15	12	8
<20 / appropriate	23	21	23	19	20	18	24	14	15	18	18	14	11	11	19	10	14
>=20 / <12	35	23	40	25	28	12	22	25	20	29	21	15	27	27	29	25	31
>=20 / 12	47	43	56	39	38	29	32	31	35	44	39	30	31	42	35	36	43
>=20 / >12	40	38	36	45	38	45	35	40	28	33	47	39	40	36	43	46	53
Unknown	19	19	6	13	14	13	17	20	6	11	9	4	2	4	4	4	3

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table B-2. Live births and infant deaths by selected characteristics among all races: Marion County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Education (years)																	
<12	67	51	69	46	42	36	45	41	32	44	34	30	47	49	55	43	50
0-8	11	5	6	8	5	2	5	5	3	4	4	4	5	6	7	12	10
9-11	56	46	63	38	37	34	40	36	29	40	30	26	42	43	48	31	40
=12	58	50	65	46	46	32	41	35	41	50	48	35	32	44	42	39	45
>12	40	38	37	45	39	46	36	40	29	35	47	39	41	36	44	47	54
13-15	18	26	22	26	20	24	24	22	15	23	16	28	23	22	28	24	35
>=16	22	12	15	19	19	22	12	18	14	12	31	11	18	14	16	23	19
Unknown	19	19	6	13	14	13	17	20	6	11	9	4	2	4	4	4	3
Live-birth order																	
First	61	53	67	36	50	54	50	59	41	59	55	45	52	57	54	59	69
Second	63	65	40	59	38	35	47	32	28	27	39	26	27	29	50	31	42
Third	26	23	38	27	25	19	26	22	17	29	25	19	23	26	19	23	20
Fourth+	27	13	29	21	22	18	13	18	19	22	15	18	20	21	22	19	21
Unknown	7	4	3	7	6	1	3	5	3	3	4	0	0	0	0	1	0
Marital status																	
Married	93	66	79	61	48	58	64	61	49	52	61	41	41	49	52	51	52
Unmarried	88	92	97	89	93	69	75	75	59	88	76	67	81	84	93	82	100
Unknown	3	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Prenatal care began																	
First trimester	102	83	112	90	81	85	80	88	70	96	102	84	74	91	93	96	111
After first trimester	37	29	37	35	33	28	24	25	22	20	17	14	28	25	24	26	26
Second trimester	30	26	33	34	29	27	16	20	18	16	16	13	22	22	23	23	23
Third trimester	7	3	4	1	4	1	8	5	4	4	1	1	6	3	1	3	3
No care	17	19	14	8	13	3	10	7	7	9	10	4	7	10	15	5	11
Unknown	28	27	14	17	14	11	25	16	9	15	9	6	13	7	13	6	4
Prenatal care index[1]																	
Adequate plus	46	43	42	43	38	40	33	43	36	54	51	32	43	47	46	57	54
Adequate	33	26	34	28	24	25	27	23	16	21	28	24	21	28	34	29	41
Intermediate	19	14	18	24	20	16	8	11	8	5	7	13	8	9	10	11	8
Inadequate	29	19	26	16	17	16	15	14	12	12	14	9	15	20	12	13	19
No care	17	19	14	8	13	3	10	7	7	9	10	4	7	10	15	5	11
Unknown	40	37	43	31	29	27	46	38	29	39	28	26	28	19	28	18	19
Maternal smoking																	
Smoking	75	57	65	49	47	33	32	36	36	34	33	31	42	40	38	25	27
Not smoking	99	94	109	90	86	93	107	100	72	105	102	76	80	93	106	108	125
Unknown	10	7	3	11	8	1	0	0	0	1	3	1	0	0	1	0	0

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table B-3. Live births and infant deaths by selected characteristics among whites: Marion County, Indiana, 1990-2006 linked files

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Total	10,902	10,768	10,586	10,310	10,262	10,122	10,054	9,980	9,837	9,942	10,223	9,974	10,220	10,268	10,360	10,176	10,648
Sex																	
Male	5,519	5,519	5,494	5,264	5,271	5,225	5,149	5,095	5,050	5,174	5,097	5,124	5,229	5,271	5,305	5,231	5,517
Female	5,382	5,248	5,090	5,046	4,991	4,897	4,905	4,885	4,787	4,768	5,126	4,850	4,991	4,997	5,055	4,945	5,131
Unknown	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plurality																	
Single births	10,633	10,471	10,339	10,021	9,989	9,860	9,755	9,659	9,522	9,615	9,937	9,666	9,846	9,963	9,957	9,841	10,321
Multiple births	268	296	246	289	273	262	299	321	315	327	286	308	374	305	403	335	327
Unknown	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Birth weight (grams)																	
<2,500	693	718	730	749	689	737	753	799	775	755	684	728	709	753	855	800	790
<1,500	107	102	106	138	126	120	114	120	118	144	117	119	109	120	139	145	118
1,500-2,499	586	616	624	611	563	617	639	679	657	611	567	609	600	633	716	655	672
>=2,500	10,200	10,046	9,851	9,559	9,561	9,351	9,245	9,144	9,034	9,151	9,503	9,226	9,486	9,497	9,486	9,350	9,827
Unknown	9	4	5	2	12	34	56	37	28	36	36	20	25	18	19	26	31
Gestational age (weeks)																	
<37	1,023	1,086	1,104	1,105	1,043	1,009	1,050	1,084	1,222	1,181	1,156	1,217	1,287	1,313	1,398	1,421	1,339
<32	160	173	182	188	154	169	182	162	173	188	157	175	164	196	205	215	176
32-36	863	913	922	917	889	840	868	922	1,049	993	999	1,042	1,123	1,117	1,193	1,206	1,163
>=37	9,857	9,682	9,481	9,203	9,219	9,112	9,004	8,895	8,614	8,761	9,067	8,755	8,933	8,955	8,961	8,753	9,307
Unknown	22	0	1	2	0	1	0	1	1	0	0	2	0	0	1	2	2
Age of mother (years)																	
<20	1,419	1,270	1,291	1,222	1,185	1,201	1,181	1,255	1,223	1,211	1,162	1,037	1,116	1,068	1,100	1,066	1,107
<18	480	452	437	434	416	477	433	427	410	389	384	342	353	359	298	336	367
18-19	939	818	854	788	769	724	748	828	813	822	778	695	763	709	802	730	740
>=20	9,482	9,498	9,287	9,083	9,076	8,919	8,873	8,724	8,613	8,729	9,061	8,937	9,103	9,200	9,258	9,107	9,539
20-24	2,882	2,865	2,743	2,682	2,619	2,420	2,411	2,420	2,365	2,504	2,712	2,725	2,875	2,831	2,791	2,744	2,936
25-29	3,600	3,416	3,322	3,132	3,039	3,018	2,964	2,921	2,944	2,860	2,935	2,815	2,869	2,912	3,017	2,996	3,182
30-34	2,248	2,354	2,387	2,314	2,412	2,460	2,396	2,279	2,213	2,212	2,159	2,244	2,221	2,302	2,269	2,250	2,234
>=35	752	863	835	955	1,006	1,021	1,102	1,104	1,091	1,153	1,255	1,153	1,138	1,155	1,181	1,117	1,187
Unknown	1	0	8	5	1	2	0	1	1	2	0	0	1	0	2	3	2
Age / Education (years)																	
<20 / <appropriate	564	476	505	417	351	370	381	426	468	440	437	426	478	429	480	486	459
<20 / appropriate	836	779	773	785	783	803	749	801	731	747	697	601	627	635	615	578	643
>=20 / <12	1,382	1,366	1,283	1,236	1,062	1,010	997	1,146	1,184	1,293	1,496	1,701	1,902	2,041	2,056	2,176	2,321
>=20 / 12	3,439	3,386	3,285	3,106	2,886	2,802	2,739	2,680	2,633	2,685	2,610	2,512	2,528	2,440	2,496	2,365	2,462
>=20 / >12	4,616	4,699	4,683	4,638	4,743	4,855	4,934	4,770	4,694	4,617	4,773	4,638	4,653	4,683	4,674	4,536	4,724
Unknown	65	62	57	128	437	282	254	157	127	160	210	96	32	40	39	35	39

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table B-3. Live births and infant deaths by selected characteristics among whites: Marion County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Education (years)																	
<12	2,386	2,259	2,192	2,033	1,796	1,793	1,757	1,976	2,001	2,085	2,262	2,400	2,670	2,773	2,795	2,953	3,096
0-8	276	280	296	268	229	213	215	290	348	398	499	620	765	835	880	957	1,008
9-11	2,110	1,979	1,896	1,765	1,567	1,580	1,542	1,686	1,653	1,687	1,763	1,780	1,905	1,938	1,915	1,996	2,088
=12	3,813	3,714	3,621	3,457	3,254	3,153	3,071	3,042	2,980	3,046	2,943	2,811	2,826	2,729	2,811	2,614	2,757
>12	4,639	4,733	4,722	4,657	4,776	4,895	4,972	4,806	4,730	4,653	4,808	4,667	4,692	4,726	4,717	4,576	4,758
13-15	2,048	1,966	2,036	1,944	1,917	1,968	2,001	1,935	1,889	1,818	1,853	1,862	1,846	1,820	1,812	1,765	1,805
>=16	2,591	2,767	2,686	2,713	2,859	2,927	2,971	2,871	2,841	2,835	2,955	2,805	2,846	2,906	2,905	2,811	2,953
Unknown	64	62	51	123	436	281	254	156	126	158	210	96	32	40	37	33	37
Live-birth order																	
First	4,806	4,718	4,565	4,495	4,536	4,564	4,343	4,217	4,181	4,201	4,401	4,250	4,329	4,255	4,387	4,291	4,432
Second	3,682	3,540	3,553	3,425	3,435	3,295	3,180	3,182	3,188	3,231	3,216	3,166	3,150	3,225	3,285	3,103	3,340
Third	1,580	1,677	1,608	1,557	1,523	1,466	1,527	1,566	1,516	1,612	1,689	1,614	1,687	1,765	1,629	1,706	1,748
Fourth+	792	784	786	739	712	756	781	803	868	869	906	936	1,048	1,022	1,058	1,074	1,120
Unknown	42	49	74	94	56	41	223	212	84	29	11	8	6	1	1	2	8
Marital status																	
Married	8,363	8,064	7,727	7,372	7,355	7,211	7,127	6,851	6,753	6,613	6,607	6,251	6,284	6,155	5,991	5,643	5,771
Unmarried	2,532	2,692	2,790	2,938	2,906	2,911	2,924	3,129	3,083	3,329	3,613	3,723	3,935	4,113	4,369	4,530	4,877
Unknown	7	12	69	0	1	0	3	0	1	0	3	0	1	0	0	3	0
Prenatal care began																	
First trimester	8,433	8,362	8,370	8,270	8,510	8,139	8,130	7,962	8,017	8,055	8,330	8,017	8,183	8,147	8,016	7,682	8,009
After first trimester	1,855	1,917	1,832	1,670	1,392	1,584	1,378	1,548	1,566	1,666	1,687	1,801	1,859	1,965	2,121	2,297	2,445
Second trimester	1,555	1,625	1,584	1,438	1,202	1,373	1,221	1,381	1,375	1,441	1,462	1,595	1,606	1,664	1,768	1,922	2,059
Third trimester	300	292	248	232	190	211	157	167	191	225	225	206	253	301	353	375	386
No care	123	131	91	65	59	62	44	60	62	73	74	86	66	58	98	80	137
Unknown	491	358	293	305	301	337	502	410	192	148	132	70	112	98	125	117	57
Prenatal care index[1]																	
Adequate plus	1,775	1,605	1,568	1,488	1,525	1,835	2,367	2,830	3,227	3,100	2,797	2,795	3,046	3,022	2,921	2,761	2,582
Adequate	4,698	4,637	4,684	4,812	5,424	5,012	4,650	4,339	4,135	4,309	4,732	4,410	4,441	4,501	4,502	4,291	4,545
Intermediate	2,372	2,572	2,597	2,292	1,844	1,734	1,250	1,143	1,036	949	1,188	1,255	1,269	1,286	1,326	1,389	1,611
Inadequate	1,221	1,181	1,065	1,056	824	845	805	891	926	1,032	1,050	1,098	1,144	1,218	1,309	1,479	1,656
No care	123	131	91	65	59	62	44	60	62	73	74	86	66	58	98	80	137
Unknown	713	642	581	597	586	634	938	717	451	479	382	330	254	183	204	176	117
Maternal smoking																	
Smoking	3,281	2,991	2,903	2,708	2,566	2,372	2,193	2,366	2,282	2,338	2,254	2,137	5,052	1,976	1,831	1,828	1,677
Not smoking	7,586	7,731	7,592	7,524	7,626	7,676	7,824	7,581	7,531	7,570	7,934	7,831	8,163	8,290	8,527	8,345	8,970
Unknown	35	46	91	78	70	74	37	33	24	34	35	6	5	2	2	3	1

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table B-3. Live births and infant deaths by selected characteristics among whites: Marion County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Total	108	80	97	92	72	76	76	82	57	70	76	63	61	76	74	82	77
Sex																	
Male	69	52	55	55	38	39	52	47	37	50	41	39	31	44	42	45	40
Female	38	28	40	37	34	37	24	35	20	20	35	24	30	32	32	37	37
Unknown	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plurality																	72
Single births	94	70	83	75	66	67	61	73	53	60	62	51	51	61	58	61	5
Multiple births	14	10	14	17	6	9	15	9	4	10	14	12	10	15	16	21	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Birth weight (grams)																	
<2,500	61	47	53	56	44	42	47	46	35	42	45	35	38	47	43	55	44
<1,500	34	30	44	39	31	31	32	37	27	29	31	27	31	34	31	43	34
1,500-2,499	27	17	9	17	13	11	15	9	8	13	14	8	7	13	12	12	10
>=2,500	43	30	41	35	25	32	26	29	21	24	26	23	21	27	27	24	28
Unknown	4	3	3	1	3	2	3	7	1	4	5	5	2	2	4	3	5
Gestational age (weeks)																	
<37	55	50	59	51	34	43	51	51	34	43	51	41	42	46	44	57	45
<32	38	36	46	40	45	31	38	40	26	30	34	34	33	36	33	48	35
32-36	17	14	13	11	11	12	13	11	8	13	17	7	9	10	11	9	10
>=37	53	30	38	41	27	33	25	31	22	27	25	21	19	30	29	24	30
Unknown	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	1	2
Age of mother (years)																	
<20	27	19	18	12	10	21	13	12	9	12	11	8	8	14	20	17	13
<18	7	6	4	7	4	12	7	6	4	3	6	3	5	5	8	3	4
18-19	20	13	14	5	6	9	6	6	5	9	5	5	3	9	12	14	9
>=20	81	61	78	80	62	55	63	70	48	58	65	55	53	62	54	65	64
20-24	23	24	22	31	25	18	23	17	17	26	15	16	18	21	15	16	30
25-29	29	18	26	25	20	14	19	28	15	17	28	16	15	15	21	24	19
30-34	24	15	20	16	9	15	17	19	12	9	13	16	12	19	10	12	9
>=35	5	4	10	8	8	8	4	6	4	6	9	7	8	7	8	13	6
Unknown	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Age / Education (years)																	
<20 / <appropriate	16	9	9	7	1	8	1	2	2	4	2	3	4	10	12	11	6
<20 / appropriate	10	10	8	5	7	13	12	9	7	8	9	5	4	4	8	6	7
>=20 / <12	24	12	21	18	17	6	14	15	12	17	9	11	13	15	17	13	20
>=20 / 12	26	24	35	23	22	15	18	21	20	22	20	20	15	20	18	19	19
>=20 / >12	30	21	22	35	22	29	25	24	15	17	31	24	24	25	18	31	22
Unknown	2	4	2	4	3	5	6	11	1	2	5	0	1	2	1	2	3

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table B-3. Live births and infant deaths by selected characteristics among whites: Marion County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Education (years)																	
<12	46	27	32	29	21	24	22	25	18	25	15	18	20	27	33	28	31
0-8	10	2	3	7	3	2	2	3	0	4	2	4	4	6	5	12	9
9-11	36	25	29	22	18	22	20	22	18	21	13	14	16	21	28	16	22
=12	30	28	41	24	25	17	23	22	23	26	25	21	16	22	22	20	20
>12	30	21	22	35	23	30	25	24	15	17	31	24	24	25	18	32	23
13-15	11	12	12	20	9	13	16	9	7	9	6	13	13	15	9	14	11
>=16	19	9	10	15	14	17	9	15	8	8	25	11	11	10	9	18	12
Unknown	2	4	2	4	3	5	6	11	1	2	5	0	0	2	1	2	3
Live-birth order																	
First	38	26	34	23	27	38	21	34	22	29	33	24	35	33	26	41	33
Second	38	37	25	35	23	20	30	19	18	18	22	18	13	19	27	18	23
Third	19	12	23	17	13	9	16	17	9	14	13	10	8	14	10	12	9
Fourth+	13	4	14	15	8	9	8	8	8	9	7	11	5	10	11	10	12
Unknown	0	1	1	2	1	0	1	4	0	0	1	0	0	0	0	1	0
Marital status																	
Married	77	48	60	52	38	45	48	46	35	35	47	34	35	41	39	38	30
Unmarried	31	32	37	40	34	31	28	36	22	35	28	29	26	35	35	44	47
Unknown	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Prenatal care began																	
First trimester	74	48	71	65	50	53	51	54	38	53	64	56	38	56	46	65	59
After first trimester	20	17	17	16	15	17	13	13	14	11	10	5	16	11	13	12	13
Second trimester	17	15	15	16	13	16	8	11	10	8	9	5	13	11	12	9	11
Third trimester	3	2	2	0	2	1	5	2	4	3	1	0	3	0	1	3	2
No care	4	5	6	5	2	0	2	5	3	4	1	0	0	3	7	2	4
Unknown	10	10	3	6	5	6	10	10	2	2	1	2	7	6	8	3	1
Prenatal care index[1]																	
Adequate plus	34	23	27	29	28	28	23	24	20	32	33	22	26	23	26	37	30
Adequate	24	20	26	20	11	18	18	16	9	12	18	16	13	18	18	20	21
Intermediate	15	8	9	16	11	10	6	8	7	4	2	10	4	6	5	5	5
Inadequate	15	8	11	9	8	8	7	6	7	4	9	2	8	10	5	8	10
No care	4	5	6	5	2	0	2	5	3	4	1	0	0	3	7	2	4
Unknown	16	16	16	13	12	12	20	23	11	14	13	13	10	16	13	10	7
Maternal smoking																	
Smoking	50	31	41	38	34	27	20	28	23	23	24	18	21	23	25	15	19
Not smoking	57	48	55	50	38	49	56	54	34	46	51	45	40	53	49	67	58
Unknown	1	1	1	4	0	0	0	0	0	1	1	0	0	0	0	0	0

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table B-4. Live births and infant deaths by selected characteristics among blacks: Marion County, Indiana, 1990-2006 linked files

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Total	3,925	3,988	3,913	3,807	3,560	3,520	3,568	3,614	3,755	3,903	4,022	4,069	3,976	4,024	4,114	4,128	4,473
Sex																	
Male	1,964	2,028	2,002	1,973	1,782	1,808	1,781	1,828	1,902	2,014	2,047	2,070	2,008	2,067	2,175	2,093	2,263
Female	1,961	1,960	1,911	1,834	1,778	1,712	1,787	1,786	1,853	1,889	1,975	1,999	1,968	1,957	1,939	2,035	2,210
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plurality																	
Single births	3,832	3,914	3,793	3,718	3,460	3,431	3,465	3,493	3,618	3,790	3,889	3,925	3,812	3,900	3,957	3,972	4,320
Multiple births	93	74	120	89	100	89	103	121	137	113	133	144	163	124	157	156	153
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Birth weight (grams)																	
<2,500	513	472	484	498	413	444	497	509	536	542	514	493	527	505	537	518	577
<1,500	112	106	117	83	93	80	113	106	104	123	119	118	102	109	126	122	140
1,500-2,499	401	366	367	415	320	364	384	403	432	419	395	375	425	396	411	396	437
>=2,500	3,405	3,514	3,424	3,305	3,114	3,049	3,033	3,089	3,202	3,341	3,481	3,568	3,434	3,511	3,565	3,602	3,877
Unknown	7	2	5	4	33	27	38	16	17	20	27	8	15	8	12	8	19
Gestational age (weeks)																	
<37	769	736	728	732	607	626	662	677	732	731	775	751	729	729	772	759	825
<32	186	175	180	155	149	134	156	167	149	183	155	166	157	147	179	152	191
32-36	583	561	548	577	458	492	506	510	583	548	620	585	572	582	593	607	634
>=37	3,143	3,252	3,185	3,075	2,953	2,894	2,906	2,937	3,023	3,171	3,246	3,318	3,247	3,295	3,342	3,369	3,647
Unknown	13	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1
Age of mother (years)																	
<20	1,053	1,120	1,100	987	894	875	942	886	889	904	832	850	770	800	765	727	865
<18	478	517	499	451	414	425	429	395	354	358	316	321	296	253	268	263	320
18-19	575	603	601	536	480	450	513	491	535	546	516	529	474	547	497	464	545
>=20	2,872	2,867	2,804	2,817	2,664	2,643	2,624	2,725	2,866	2,999	3,190	3,219	3,206	3,224	3,348	3,401	3,608
20-24	1,386	1,374	1,352	1,310	1,265	1,156	1,204	1,197	1,294	1,348	1,416	1,466	1,402	1,405	1,478	1,474	1,570
25-29	885	894	830	827	733	735	735	783	877	887	931	971	959	947	970	975	1,101
30-34	435	425	419	476	488	506	447	479	440	473	549	494	544	574	582	633	614
>=35	166	174	203	204	178	246	238	266	255	291	294	288	301	298	318	319	323
Unknown	0	1	9	3	2	2	2	3	0	0	0	0	0	0	0	0	0
Age / Education (years)																	
<20 / <appropriate	208	211	236	193	165	164	194	192	213	197	195	183	166	200	175	176	202
<20 / appropriate	809	862	846	765	699	676	713	669	663	691	616	661	598	595	587	545	657
>=20 / <12	563	547	543	566	470	426	501	475	580	575	641	648	696	668	760	733	731
>=20 / 12	1,336	1,301	1,239	1,206	1,122	1,103	1,043	1,064	1,160	1,209	1,298	1,295	1,228	1,246	1,325	1,313	1,383
>=20 / >12	886	949	976	973	955	1,017	992	1,110	1,082	1,152	1,194	1,255	1,273	1,293	1,245	1,338	1,478
Unknown	123	118	73	104	149	134	125	104	57	79	78	27	15	22	22	23	22

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table B-4. Live births and infant deaths by selected characteristics among blacks: Marion County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Education (years)																	
<12	1,269	1,297	1308	1,226	1,049	1,026	1,123	1,078	1,168	1,156	1,151	1,194	1,195	1,165	1,242	1,174	1,272
0-8	92	98	93	83	78	90	88	75	92	61	79	76	77	75	76	83	87
9-11	1,177	1,199	1215	1,143	971	936	1,035	1,003	1,076	1,095	1,072	1,118	1,118	1,090	1,166	1,091	1,185
=12	1,621	1,596	1530	1,472	1,377	1,321	1,299	1,296	1,400	1,485	1,556	1,558	1,445	1,510	1,573	1,551	1,669
>12	912	978	1007	1,006	987	1,041	1,022	1,139	1,130	1,183	1,237	1,290	1,321	1,327	1,278	1,380	1,510
13-15	717	767	789	750	724	776	727	810	780	855	832	929	891	902	858	954	1,024
>=16	195	211	218	256	263	265	295	329	350	328	405	361	430	425	420	426	486
Unknown	123	117	68	103	147	132	124	101	57	79	78	27	15	22	21	23	22
Live-birth order																	
First	1,453	1,484	1541	1,390	1,400	1,493	1,382	1,415	1,463	1,484	1,435	1,566	1,451	1,542	1,548	1,600	1,797
Second	1,157	1,225	1120	1,155	1,022	944	1,027	1,016	1,076	1,102	1,142	1,123	1,059	1,111	1,159	1,084	1,206
Third	710	709	669	695	624	571	597	589	660	725	792	752	789	714	737	735	733
Fourth+	564	531	560	532	504	505	492	521	532	578	642	620	675	655	667	706	734
Unknown	41	39	23	35	10	7	70	73	24	14	11	8	2	2	3	3	3
Marital status																	
Married	1,068	990	980	979	883	914	872	947	944	959	1,041	1,043	998	1,022	934	991	963
Unmarried	2,855	2,997	2931	2,827	2,674	2,606	2,694	2,667	2,811	2,944	2,981	3,026	2,978	3,001	3,179	3,137	3,510
Unknown	2	1	2	1	3	0	2	0	0	0	0	0	0	0	1	0	0
Prenatal care began																	
First trimester	2,152	2,121	2365	2,355	2,262	2,185	2,129	2,331	2,454	2,595	2,733	2,817	2,755	2,765	2,770	2,666	2,874
After first trimester	1,199	1,381	1,265	1,181	1,040	1,089	1,046	1,024	1,110	1,101	1,100	1,107	1,073	1,103	1,158	1,266	1,448
Second trimester	1,015	1,148	1097	1,035	900	957	897	877	946	949	926	957	911	911	979	1,066	1,245
Third trimester	184	233	168	146	140	132	149	147	164	152	174	150	162	192	179	200	203
No care	196	217	126	100	94	77	80	77	94	68	69	81	95	91	99	82	128
Unknown	378	269	157	171	164	169	313	182	97	139	120	64	53	65	87	114	23
Prenatal care index[1]																	
Adequate plus	678	570	564	468	507	649	751	987	1,179	1,141	1,065	1,017	1,056	1,175	1,176	1,125	1,020
Adequate	942	974	1081	1,108	1,063	1,097	979	1,041	1,061	1,168	1,277	1,294	1,287	1,321	1,361	1,332	1,422
Intermediate	629	755	889	992	739	645	507	470	449	435	566	686	623	582	554	581	718
Inadequate	901	980	869	762	682	705	634	687	715	735	755	747	759	746	796	864	1,125
No care	196	217	126	100	94	77	80	77	94	68	69	81	95	91	99	82	128
Unknown	579	492	384	377	475	347	617	352	257	356	290	244	156	109	128	144	60
Maternal smoking																	
Smoking	900	789	741	710	584	557	610	524	581	624	594	597	564	577	559	544	537
Not smoking	2,968	3,146	3,146	3,054	2,949	2,937	2,947	3,087	3,165	3,266	3,407	3,470	3,408	3,444	3,552	3,583	3,936
Unknown	57	53	26	43	27	26	11	3	9	13	21	2	4	3	3	1	0

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table B-4. Live births and infant deaths by selected characteristics among blacks: Marion County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Total	72	76	80	55	64	48	59	51	48	66	60	43	59	57	69	49	73
Sex																	
Male	33	45	46	27	41	22	33	29	28	37	35	21	32	32	35	25	38
Female	39	31	34	28	23	26	26	22	20	29	25	22	27	25	34	24	35
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plurality																	
Single births	63	71	72	47	57	48	51	46	41	56	57	37	48	50	60	43	68
Multiple births	9	5	8	8	7	0	8	5	7	10	3	6	11	7	9	6	5
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Birth weight (grams)																	
<2,500	52	57	53	36	34	36	42	35	40	46	41	35	40	40	52	40	54
<1,500	43	52	47	27	24	28	38	32	30	40	32	31	33	33	40	31	47
1,500-2,499	9	5	6	9	10	8	4	3	10	6	9	4	7	7	12	9	7
>=2,500	15	17	24	15	24	8	16	12	5	17	14	7	11	15	12	7	13
Unknown	5	2	3	4	6	4	1	4	3	3	5	1	8	2	5	2	6
Gestational age (weeks)																	
<37	52	63	57	36	31	36	46	40	43	47	42	33	47	41	56	39	60
<32	46	53	47	29	39	33	38	34	35	42	35	32	42	35	49	31	52
32-36	6	10	10	7	8	3	8	6	8	5	7	1	5	6	7	8	8
>=37	19	13	23	19	25	12	13	11	5	19	17	10	12	16	13	10	12
Unknown	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Age of mother (years)																	
<20	21	23	24	19	16	9	26	11	11	13	11	13	13	10	16	6	9
<18	6	15	11	10	9	3	11	3	6	6	4	6	4	5	7	2	5
18-19	15	8	13	9	7	6	15	8	5	7	7	7	9	5	9	4	4
>=20	51	53	54	36	48	39	33	40	37	53	49	30	46	47	53	43	64
20-24	30	27	27	16	30	15	14	20	16	27	20	13	20	21	24	18	27
25-29	9	12	15	14	6	14	13	6	9	16	14	7	19	10	17	13	19
30-34	9	8	6	5	9	4	5	8	6	8	9	5	2	9	10	6	12
>=35	3	6	6	1	3	6	1	6	6	2	6	5	5	7	2	6	6
Unknown	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Age / Education (years)																	
<20 / <appropriate	4	5	7	2	2	2	8	4	2	1	2	3	6	3	3	1	2
<20 / appropriate	13	11	15	14	13	5	12	5	8	9	9	9	7	7	11	4	7
>=20 / <12	11	11	19	7	11	6	8	9	8	12	10	3	14	12	12	12	11
>=20 / 12	21	18	21	13	16	14	13	10	14	22	19	10	15	22	16	16	24
>=20 / >12	10	16	14	10	15	13	10	15	12	15	16	14	16	11	24	14	29
Unknown	13	15	4	9	7	8	8	8	4	7	4	4	1	2	3	2	0

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table B-4. Live births and infant deaths by selected characteristics among blacks: Marion County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Education (years)																	
<12	21	24	37	17	21	12	23	15	14	19	17	11	26	22	22	15	19
0-8	1	3	3	1	2	0	3	1	3	0	1	0	0	0	2	0	1
9-11	20	21	34	16	19	12	20	14	11	19	16	11	26	22	20	15	18
=12	28	21	24	19	21	15	17	13	17	23	23	14	15	22	19	18	25
>12	10	16	15	10	15	13	11	15	13	17	16	14	17	11	25	14	29
13-15	7	14	10	6	11	9	8	13	8	14	10	14	10	7	19	9	23
>=16	3	2	5	4	4	4	3	2	5	3	6	0	7	4	6	5	6
Unknown	13	15	4	9	7	8	8	8	4	7	4	4	1	2	3	2	0
Live-birth order																	
First	23	27	33	13	23	15	27	24	18	28	21	20	15	24	27	17	35
Second	24	27	15	21	15	14	16	12	9	9	17	8	14	10	23	13	18
Third	7	10	15	10	11	9	10	5	8	15	12	8	15	12	8	11	11
Fourth+	14	9	15	6	14	9	5	9	10	13	7	7	15	11	11	8	9
Unknown	4	3	2	5	1	1	1	1	3	1	3	0	0	0	0	0	0
Marital status																	
Married	15	17	19	7	9	11	13	13	12	16	14	6	6	8	11	12	20
Unmarried	57	59	60	48	55	37	46	38	36	50	46	37	53	49	58	37	53
Unknown	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prenatal care began																	
First trimester	28	34	41	22	30	30	27	32	29	41	37	26	34	35	46	30	52
After first trimester	16	12	20	19	18	11	11	11	8	9	7	9	12	14	10	13	11
Second trimester	13	11	18	18	16	11	8	8	8	8	7	8	9	11	10	13	10
Third trimester	3	1	2	1	2	0	3	3	0	1	0	1	3	3	0	0	1
No care	13	14	8	3	11	3	8	2	4	5	8	4	7	7	8	3	7
Unknown	15	16	11	11	5	4	13	6	7	11	8	4	6	1	5	3	3
Prenatal care index[1]																	
Adequate plus	12	20	15	13	10	12	10	17	15	21	18	10	17	24	19	19	23
Adequate	9	5	8	8	12	7	8	7	7	8	9	6	8	10	16	8	19
Intermediate	4	6	9	6	9	6	2	3	1	1	5	3	3	3	5	6	3
Inadequate	14	11	15	7	9	8	8	8	4	8	5	7	7	10	6	5	9
No care	13	14	8	3	11	3	8	2	4	5	8	4	7	7	8	3	7
Unknown	20	20	25	18	13	12	23	14	17	23	15	13	17	3	15	8	12
Maternal smoking																	
Smoking	24	26	24	11	13	6	12	8	13	10	8	11	19	17	13	9	8
Not smoking	42	44	54	37	47	41	47	43	35	56	50	31	40	40	55	40	65
Unknown	6	6	2	7	4	1	0	0	0	0	2	1	0	0	1	0	0

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table C-1. Live births, infant, neonatal, and post-neonatal deaths by race/Hispanic origin of mother: Lake County, Indiana, 1990-2006 linked files

Race/Hispanic origin of mother	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Numbers								
All races/origins																	
Live births	7,523	7,689	7,590	7,481	7,313	7,329	7,126	6,903	7,134	7,073	7,040	6,936	6,824	6,926	6,975	6,872	6,937
Infant deaths	80	84	74	81	86	77	75	64	71	63	58	63	71	53	62	72	69
Neonatal deaths	57	45	45	54	59	53	48	42	44	42	34	34	49	39	40	46	40
Post-neonatal deaths	23	39	29	27	27	24	27	22	27	21	24	29	22	14	22	26	29
White																	
Live births	5,084	5,223	5,077	4,986	4,916	4,920	4,785	4,646	4,679	4,700	4,695	4,609	4,554	4,612	4,662	4,532	4,538
Infant deaths	46	43	36	39	46	34	37	35	27	27	25	33	38	29	27	33	36
Neonatal deaths	35	22	22	25	32	22	24	20	14	21	21	17	29	23	15	18	19
Post-neonatal deaths	11	21	14	14	14	12	13	15	13	6	4	16	9	6	12	15	17
White, Non-Hispanic																	
Live births	4,311	4,382	4,213	4,047	3,860	3,979	3,761	3,612	3,636	3,655	3,538	3,503	3,389	3,405	3,443	3,228	3,220
Infant deaths	38	36	29	29	36	25	24	30	17	20	20	22	24	23	20	23	26
Neonatal deaths	30	19	18	19	25	16	14	16	10	15	16	12	16	18	11	13	14
Post-neonatal deaths	8	17	11	10	11	9	10	14	7	5	4	10	8	5	9	10	12
Black																	
Live births	2,362	2,391	2,433	2,435	2,334	2,323	2,245	2,167	2,339	2,284	2,265	2,232	2,170	2,205	2,195	2,232	2,266
Infant deaths	34	40	36	42	39	42	38	29	43	33	32	30	32	24	34	39	33
Neonatal deaths	22	23	22	29	26	31	24	22	29	19	13	17	20	16	24	28	21
Post-neonatal deaths	12	17	14	13	13	11	14	7	14	14	19	13	12	8	10	11	12
Black, Non-Hispanic																	
Live births	2,354	2,385	2,431	2,432	2,328	2,313	2,225	2,157	2,331	2,272	2,249	2,219	2,158	2,193	2,183	2,206	2,243
Infant deaths	34	40	36	42	39	42	38	29	43	33	32	30	32	24	34	39	33
Neonatal deaths	22	23	22	29	26	31	24	22	29	19	13	17	20	16	24	28	21
Post-neonatal deaths	12	17	14	13	13	11	14	7	14	14	19	13	12	8	10	11	12
Hispanic																	
Live births	809	853	894	915	976	934	953	1,044	1,048	1,060	1,173	1,119	1,175	1,230	1,232	1,333	1,347
Infant deaths	8	7	8	9	10	9	12	5	10	7	5	11	15	6	7	10	10
Neonatal deaths	5	3	5	5	7	6	9	4	4	6	5	5	13	5	4	5	5
Post-neonatal deaths	3	4	3	4	3	3	3	1	6	1	0	6	2	1	3	5	5

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table C-2. Live births and infant deaths by selected characteristics among all races: Lake County, Indiana, 1990-2006 linked files

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Total	7,523	7,689	7,590	7,481	7,313	7,329	7,126	6,903	7,134	7,073	7,040	6,936	6,824	6,926	6,975	6,872	6,937
Sex																	
Male	3,905	3,961	3,940	3,885	3,735	3,788	3,622	3,458	3,649	3,580	3,640	3,522	3,502	3,553	3,570	3,501	3,582
Female	3,618	3,728	3,662	3,596	3,578	3,541	3,504	3,443	3,484	3,493	3,400	3,413	3,321	3,372	3,405	33,710	3,355
Unknown	0	0	0	0	0	0	0	2	1	0	0	1	1	1	0		0
Plurality																	
Single births	7,324	7,492	7,408	7,303	7,101	7,114	6,952	6,705	6,901	6,837	6,810	6,708	6,590	6,672	6,723	6,588	6,701
Multiple births	197	196	194	178	212	215	174	198	233	236	230	227	234	254	252	284	236
Unknown	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Birth weight (grams)																	
<2,500	588	605	627	592	603	652	628	577	635	641	631	599	566	637	670	673	699
<1,500	115	116	125	124	116	116	126	128	132	114	122	139	112	125	122	131	132
1,500-2,499	473	489	502	468	487	536	502	449	503	527	509	460	454	512	548	542	567
>=2,500	6,926	7,077	6,968	6,885	6,698	6,652	6,437	6,276	6,461	6,402	6,365	6,298	6,222	6,267	6,274	6,177	6,211
Unknown	9	7	7	4	12	25	61	50	38	30	44	39	36	22	31	22	27
Gestational age (weeks)																	
<37	989	922	1,006	968	965	997	909	881	948	966	964	1,007	994	1,113	1,061	1,103	1,153
<32	186	197	216	199	201	198	201	196	191	177	192	203	186	184	194	190	206
32-36	803	725	790	769	764	799	708	685	757	789	772	804	808	929	867	913	947
>=37	6,528	6,755	6,593	6,508	6,347	6,329	6,215	6,022	6,185	6,104	6,076	5,927	5,829	5,812	5,914	5,767	5,783
Unknown	6	12	3	5	1	3	2	0	1	3	0	2	1	1	0	2	1
Age of mother (years)																	
<20	1,175	1196	1,238	1,240	1,290	1,296	1,220	1,118	1,169	1,036	1,007	878	818	812	787	818	782
<18	469	469	479	520	527	504	473	451	418	359	317	287	281	261	298	248	254
18-19	706	729	759	720	763	792	747	667	751	677	690	591	537	551	489	570	528
>=20	6,323	6487	6,362	6,240	6,023	6,033	5,903	5,784	5,963	6,035	6033	6,058	6,004	6,112	6,170	6,054	6,147
20-24	2,054	2217	2,189	2,045	2,057	2,044	2,016	1,943	1,993	2,034	2,087	2,080	2,006	1,960	1,954	1,861	1,873
25-29	2,246	2122	2,079	2,017	1,977	1,872	1,781	1,825	1,933	1,919	1,876	1,925	1,875	1,974	2,010	2,054	2,046
30-34	1,464	1,552	1,496	1,536	1,353	1,373	1,404	1,330	1,299	1,366	1,314	1,328	1,390	1,459	1,456	1,424	1,408
>=35	559	596	598	642	636	744	702	686	738	716	756	725	733	719	750	715	820
Unknown	25	4	2	1	0	0	3	1	2	2	0	0	2	2	18	0	8
Age / Education (years)																	
<20 / <appropriate	218	214	247	232	243	251	262	223	273	233	222	219	199	206	172	190	169
<20 / appropriate	947	978	990	998	1,043	1,038	951	887	890	795	777	652	616	602	606	623	604
>=20 / <12	754	805	836	781	727	710	739	738	732	770	819	853	894	950	935	909	908
>=20 / 12	2,977	3,004	2,832	2,766	2,519	2,455	2,310	2,203	2,153	2,178	2,080	2,020	1,965	1,920	1,974	1,894	1,904
>=20 / >12	2,565	2,657	2,681	2,669	2,749	2,842	2,824	2,806	3,043	3,038	3,098	3,155	3,112	3,212	3,222	3,183	3,263
Unknown	62	31	16	35	32	33	40	46	43	59	44	37	38	36	66	73	89

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table C-2. Live births and infant deaths by selected characteristics among all races: Lake County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Education (years)																	
<12	1,452	1,519	1,594	1,564	1,537	1,496	1,507	1,423	1,457	1,388	1,386	1,384	1,378	1,432	1,403	1,368	1,366
0-8	161	153	185	193	206	182	175	174	173	178	181	169	217	247	217	224	241
9-11	1,291	1,366	1,409	1,371	1,331	1,314	1,332	1,249	1,284	1,210	1,205	1,215	1,161	1,185	1,186	1,144	1,125
=12	3,381	3,411	3,241	3,149	2,934	2,876	2,680	2,554	2,517	2,518	2,437	2,298	2,223	2,193	2,234	2,185	2,165
>12	2,652	2,732	2,753	2,734	2,810	2,924	2,901	2,881	3,118	3,110	3,173	3,217	3,187	3,267	3,290	3,246	3,325
13-15	1,754	1,829	1,860	1,758	1,838	1,938	1,890	1,794	2,053	1,981	2,022	2,011	1,930	1,999	2,006	1,924	1,970
>=16	898	903	893	976	972	986	1,011	1,087	1,065	1,129	1,151	1,206	1,257	1,268	1,284	1,322	1,355
Unknown	38	27	14	34	32	33	38	45	42	57	44	37	36	34	48	73	81
Live-birth order																	
First	2,927	3,079	2,922	2,892	2,890	2,920	2,824	2,659	2,663	2,604	2,549	2,532	2,447	2,395	2,439	2,371	2,449
Second	2,367	2,292	2,392	2,326	2,272	2,297	2,254	2,110	2,219	2,154	2,184	2,202	2,118	2,197	2,140	2,061	2,099
Third	1,328	1,347	1,316	1,325	1,240	1,229	1,195	1,216	1,282	1,290	1,271	1,193	1,285	1,301	1,283	1,306	1,259
Fourth+	872	938	953	900	877	856	832	895	927	975	1,002	988	957	1,013	1,100	1,119	1,110
Unknown	29	33	19	38	34	27	21	23	43	50	34	21	17	20	13	15	20
Marital status																	
Married	4,560	4,548	4,308	4,174	3,956	3,955	3,820	3,712	3,750	3,705	3,636	3,655	3,481	3,565	3,480	3,320	3,316
Unmarried	2,958	3,135	3,293	3,307	3,354	3,373	3,303	3,190	3,380	3,368	3,402	3,280	3,342	3,359	3,495	3,550	3,621
Unknown	5	6	1	0	3	1	3	1	4	0	2	1	1	2	0	2	0
Prenatal care began																	
First trimester	5,582	5,751	5,808	5,694	5,601	5,723	5,317	5,168	5,284	5,353	5,416	5,402	5,334	5,439	5,511	5,369	5,440
After first trimester	1,711	1,717	1,636	1,549	1,414	1,335	1,505	1,434	1,514	1,383	1,347	1,219	1,227	1,259	1,228	1,233	1,220
Second trimester	1,451	1,430	1,412	1,314	1,192	1,145	1,258	1,211	1,250	1,153	1,155	1,023	1,034	1,034	1,009	993	1,004
Third trimester	260	287	224	235	222	190	247	223	264	230	192	196	193	225	219	240	216
No care	129	171	132	160	166	140	153	138	158	123	115	114	103	83	99	79	126
Unknown	101	50	26	78	132	131	151	163	178	214	162	201	160	145	137	191	151
Prenatal care index[1]																	
Adequate plus	1,824	1,898	2,135	2,251	2,206	2,169	1,990	1,854	2,124	2,298	2,313	2,291	2,199	2,289	2,225	2,457	2,377
Adequate	3,070	3,361	3,242	3,078	2,755	2,782	2,583	2,569	2,498	2,416	2,520	2,583	2,539	2,548	2,564	2,307	2,364
Intermediate	1,109	988	980	865	903	945	874	921	858	753	757	636	718	756	796	707	826
Inadequate	1,199	1,155	1,044	987	919	878	1,016	931	977	911	836	732	784	781	799	800	792
No care	129	171	132	160	166	140	153	138	158	123	115	114	103	83	99	79	126
Unknown	192	116	69	140	364	415	510	490	519	572	499	580	481	469	492	522	452
Maternal smoking																	
Smoking	1,908	1,789	1,679	1,544	1,400	1,388	1,291	1,095	1,237	1,145	1,116	1,050	1,048	975	987	904	847
Not smoking	5,600	5,877	5,918	5,921	5,887	5,924	5,827	5,796	5,889	5,919	5,913	5,877	5,764	5,944	5,976	5,963	6,083
Unknown	15	23	5	16	26	17	8	12	8	9	11	9	12	7	12	5	7

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table C-2. Live births and infant deaths by selected characteristics among all races: Lake County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Total	80	84	74	81	86	77	75	64	71	63	58	63	71	53	62	72	69
Sex																	
Male	52	53	44	48	51	49	40	31	36	41	36	35	38	38	30	37	44
Female	28	31	30	33	35	28	35	33	34	22	22	27	32	14	32	35	24
Unknown	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0
Plurality																	
Single births	73	75	68	76	75	71	66	61	67	59	55	56	55	44	55	59	58
Multiple births	7	9	6	5	11	6	9	3	4	4	3	7	16	9	7	13	11
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Birth weight (grams)																	
<2,500	52	50	44	54	63	41	38	33	47	39	30	38	46	30	43	45	47
<1,500	36	31	33	41	49	31	33	28	42	31	20	33	34	25	32	35	37
1,500-2,499	16	19	11	13	14	10	5	5	5	8	10	5	12	5	11	10	10
>=2,500	26	32	28	24	21	29	30	27	22	21	21	23	22	20	16	24	21
Unknown	2	2	2	3	2	7	7	4	2	3	7	2	3	3	3	3	1
Gestational age (weeks)																	
<37	46	54	46	55	66	44	46	40	48	39	34	40	50	37	45	44	48
<32	37	37	32	45	54	36	42	34	42	35	26	36	36	28	36	38	39
32-36	9	17	14	10	12	8	4	6	6	4	8	4	14	9	9	6	9
>=37	33	30	27	24	20	31	27	24	23	24	24	23	21	16	17	28	21
Unknown	1	0	1	2	0	2	2	0	0	0	0	0	0	0	0	0	0
Age of mother (years)																	
<20	13	17	14	15	21	18	19	16	9	7	11	11	9	10	9	9	7
<18	6	9	3	6	10	5	8	6	2	1	6	3	4	3	4	5	1
18-19	7	8	11	9	11	13	11	10	7	6	5	8	5	7	5	4	6
>=20	67	67	60	66	65	59	56	48	62	55	47	52	62	43	53	63	62
20-24	26	24	19	20	33	25	21	13	27	15	16	19	24	18	18	15	26
25-29	22	25	16	24	16	14	15	18	16	17	15	17	21	12	18	27	20
30-34	13	9	14	15	11	12	13	10	10	18	8	8	11	7	8	11	8
>=35	6	9	11	7	5	8	7	7	9	5	8	8	6	6	9	10	8
Unknown	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Age / Education (years)																	
<20 / <appropriate	0	5	4	4	3	1	1	4	3	2	1	2	1	3	5	2	3
<20 / appropriate	12	12	10	10	18	17	18	12	6	5	10	9	8	7	4	7	3
>=20 / <12	12	9	8	10	13	8	13	6	10	7	6	10	8	8	10	14	10
>=20 / 12	30	39	19	24	32	30	22	18	26	31	20	19	32	13	14	22	29
>=20 / >12	25	19	33	32	19	21	21	23	23	17	21	22	19	21	29	27	23
Unknown	1	0	0	1	1	0	0	1	3	1	0	1	3	1	0	0	1

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table C-2. Live births and infant deaths by selected characteristics among all races: Lake County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Education (years)																	
<12	18	20	15	20	25	17	23	17	16	12	14	17	13	16	19	20	14
0-8	5	6	4	4	5	1	1	2	0	0	1	2	0	2	3	6	1
9-11	13	14	11	16	20	16	22	15	16	12	13	15	13	14	16	14	13
=12	34	45	26	27	39	39	31	21	28	33	21	21	34	15	14	25	31
>12	27	19	33	33	21	21	21	25	24	17	23	24	21	21	29	27	23
13-15	16	9	23	21	17	16	14	14	20	11	13	20	14	13	21	20	18
>=16	11	10	10	12	4	5	7	11	4	6	10	4	7	8	8	7	5
Unknown	1	0	0	1	1	0	0	1	3	1	0	1	3	1	0	0	1
Live-birth order																	
First	30	23	22	29	28	30	29	26	19	21	24	20	22	20	25	25	25
Second	22	35	24	32	31	22	18	22	20	20	13	22	16	13	17	13	20
Third	16	16	15	9	14	14	12	10	19	12	12	8	21	8	9	13	12
Fourth+	11	10	13	10	13	11	16	6	10	9	8	12	11	11	11	21	11
Unknown	1	0	0	1	0	0	0	0	3	1	1	1	1	1	0	0	1
Marital status																	
Married	46	36	32	34	24	24	24	25	24	22	19	24	24	20	25	24	21
Unmarried	34	48	42	47	61	53	51	39	47	40	39	39	47	33	37	48	48
Unknown	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
Prenatal care began																	
First trimester	55	65	56	51	56	51	48	46	47	44	41	46	40	36	51	48	47
After first trimester	18	10	14	16	17	14	15	10	11	10	11	11	20	12	6	15	12
Second trimester	16	7	12	16	16	11	9	6	9	10	10	10	17	7	6	14	9
Third trimester	2	3	2	0	1	3	6	4	2	0	1	1	3	5	0	1	3
No care	6	6	4	10	7	7	7	6	10	2	2	2	6	0	2	6	6
Unknown	1	3	0	4	6	5	5	2	3	7	4	4	5	5	3	3	4
Prenatal care index[1]																	
Adequate plus	30	34	30	29	50	27	19	24	29	25	20	27	24	23	25	30	32
Adequate	17	17	15	19	19	13	16	13	11	11	11	17	16	4	10	12	10
Intermediate	8	13	10	8	6	7	9	2	8	4	6	3	2	5	9	5	4
Inadequate	15	9	10	8	12	9	13	9	7	5	5	6	11	8	5	11	9
No care	6	6	4	10	7	7	7	6	10	2	2	2	6	0	2	6	6
Unknown	4	5	5	8	12	14	11	10	6	16	14	8	12	13	11	8	8
Maternal smoking																	
Smoking	21	22	20	22	21	24	20	9	16	16	9	13	14	10	11	12	17
Not smoking	58	61	54	58	63	53	55	55	55	47	49	50	57	43	51	60	52
Unknown	1	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table C-3. Live births and infant deaths by selected characteristics among whites: Lake County, Indiana, 1990-2006 linked files

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Total	5,084	5,223	5,077	4,986	4,916	4,920	4,785	4,646	4,679	4,700	4,695	4,609	4,554	4612	4,662	4,532	4,538
Sex																	
Male	2,647	2,669	2,671	2,617	2,525	2,527	2,419	2,381	2,405	2,371	2,451	2,350	2,321	2385	2,407	2,311	2,343
Female	2,437	2,554	2,406	2,369	2,391	2,393	2,366	2,265	2,274	2,329	2,244	2,259	2,233	2226	2,255	2,221	2,195
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Plurality																	
Single births	4,971	5,096	4,955	4,872	4,772	4,783	4,663	4,518	4,527	4,547	4,541	4,478	4,409	4423	4,488	4,353	4,402
Multiple births	113	126	122	114	144	137	122	128	152	153	154	131	145	189	174	179	136
Unknown	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Birth weight (grams)																	
<2,500	302	287	296	295	296	325	309	284	344	338	334	286	289	342	349	351	353
<1,500	54	45	52	61	50	41	56	60	59	48	52	60	59	58	45	51	74
1,500-2,499	248	242	244	234	246	284	253	224	285	290	282	226	230	284	304	300	279
>=2,500	4,779	4,933	4,779	4,688	4,613	4,580	4,447	4,334	4,311	4,343	4,336	4,313	4,247	4257	4,301	4,166	4,167
Unknown	3	3	2	3	7	15	29	28	24	19	25	10	18	13	12	15	18
Gestational age (weeks)																	
<37	512	476	519	533	503	528	470	465	512	535	543	545	574	649	596	627	671
<32	83	76	91	94	86	75	84	91	82	84	94	84	101	92	78	75	114
32-36	429	400	428	439	417	453	386	374	430	451	449	461	473	557	518	552	557
>=37	4,571	4,745	4,557	4,449	4,412	4,390	4,313	4,181	4,166	4,164	4,152	4,063	3,979	3963	4,066	3,904	3,867
Unknown	1	2	1	4	1	2	2	0	1	1	0	1	1	0	0	1	0
Age of mother (years)																	
<20	547	555	564	566	604	628	605	559	563	525	520	446	419	413	368	414	366
<18	182	185	186	212	221	215	209	215	189	172	129	135	127	128	116	109	103
18-19	365	370	378	354	383	413	396	344	374	353	391	311	292	285	252	305	263
>=20	4,517	4,668	4,511	4,419	4,312	4,292	4,179	4,087	4,115	4,174	4,175	4,163	4,133	4197	4,284	4,118	4,166
20-24	1,319	1,440	1,328	1,248	1,251	1,233	1,215	1,160	1,194	1,177	1,227	1,251	1,166	1152	1,178	1,076	1,111
25-29	1,690	1,609	1,587	1,495	1,501	1,440	1,326	1,348	1,384	1,366	1,326	1,343	1,333	1400	1,405	1,438	1,385
30-34	1,104	1,183	1,166	1,189	1,100	1,080	1,116	1,054	997	1,074	1,031	1,012	1,070	1106	1,108	1,065	1,059
>=35	404	436	430	487	460	539	522	525	540	557	591	557	564	539	593	539	611
Unknown	20	0	2	1	0	0	1	0	1	1	0	0	2	2	10	0	6
Age / Education (years)																	
<20 / <appropriate	141	139	149	139	145	163	156	139	162	148	151	137	137	131	111	124	99
<20 / appropriate	403	413	414	420	456	461	443	415	397	375	365	306	281	279	249	288	261
>=20 / <12	536	580	581	532	485	472	500	487	503	487	562	568	591	630	629	603	616
>=20 / 12	2,151	2,190	1,956	1,901	1,756	1,740	1,553	1,467	1,386	1,407	1,293	1,286	1,227	1184	1,210	1,137	1,152
>=20 / >12	1,812	1,887	1,965	1,970	2,052	2,068	2,103	2,108	2,201	2,245	2,291	2,285	2,287	2360	2,419	2,324	2,339
Unknown	41	14	12	24	22	16	30	30	30	38	33	27	31	28	44	56	71

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table C-3. Live births and infant deaths by selected characteristics among whites: Lake County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Education (years)																	
<12	865	907	916	884	853	841	867	838	848	807	850	840	844	884	844	839	826
0-8	122	114	139	152	154	138	134	145	135	142	152	146	176	217	185	202	223
9-11	743	793	777	732	699	703	733	693	713	665	698	694	668	667	659	637	603
=12	2,347	2,390	2,145	2,080	1,957	1,946	1,743	1,630	1,546	1,570	1,484	1,423	1,356	1311	1,332	1,277	1,277
>12	1,851	1,912	2,006	1,999	2,084	2,117	2,146	2,148	2,256	2,286	2,328	2,319	2,325	2391	2,452	2,360	2,370
13-15	1,117	1,163	1,261	1,196	1,253	1,304	1,310	1,250	1,384	1,343	1,375	1,325	1,281	1338	1,378	1,286	1,274
>=16	743	749	745	803	831	813	836	898	872	943	953	994	1,044	1053	1,074	1,074	1,096
Unknown	21	14	10	23	22	16	29	30	29	37	33	27	29	26	34	56	65
Live-birth order																	
First	2,006	2,125	1,978	1,953	1,991	1,959	1,929	1,850	1,800	1,823	1,786	1,756	1,728	1662	1,652	1,644	1,677
Second	1,688	1,630	1,625	1,601	1,597	1,627	1,538	1,458	1,517	1,479	1,518	1,525	1,482	1559	1,553	1,455	1,419
Third	882	921	915	898	821	832	827	813	810	821	816	788	833	844	846	843	830
Fourth+	488	528	544	501	479	487	474	511	516	540	550	526	496	533	599	578	595
Unknown	20	19	15	33	28	15	17	14	36	37	25	14	15	14	12	12	17
Marital status																	
Married	3,961	3,944	3,765	3,623	3,479	3,471	3,308	3,181	3,192	3,171	3,090	3,071	2,951	3024	2,980	2,795	2,757
Unmarried	1,121	1,278	1,312	1,363	1,434	1,448	1,476	1,465	1,485	1,529	1,604	1,538	1,603	1587	1,682	1,736	1,781
Unknown	2	1	0	0	3	1	1	0	2	0	1	0	0	1	0	1	0
Prenatal care began																	
First trimester	4,051	4,238	4,147	4,107	4,055	4,063	3,842	3,728	3,685	3,783	3,808	3,796	3,749	3812	3,894	3,759	3,751
After first trimester	903	867	859	778	695	704	780	748	804	720	722	643	649	664	628	623	634
Second trimester	765	736	750	655	602	613	657	629	669	602	623	544	551	554	516	495	527
Third trimester	138	131	109	123	93	91	123	119	135	118	99	99	98	110	112	128	107
No care	60	85	55	52	71	63	53	56	65	57	50	54	43	27	43	31	50
Unknown	70	33	16	49	95	90	110	114	125	140	115	116	113	109	97	119	103
Prenatal care index[1]																	
Adequate plus	1,176	1,245	1,315	1,437	1,409	1,336	1,251	1,170	1,371	1,494	1,482	1,438	1,390	1477	1,429	1,581	1,506
Adequate	2,373	2,654	2,525	2,377	2,128	2,157	2,049	2,005	1,867	1,842	1,928	1,969	1,940	1918	1,946	1,728	1,767
Intermediate	746	639	659	575	627	644	583	619	534	479	481	430	472	485	492	454	512
Inadequate	601	533	489	450	410	425	490	448	477	442	400	353	371	375	396	378	382
No care	60	85	55	52	71	63	53	56	65	57	50	54	43	27	43	31	50
Unknown	128	67	34	95	271	295	359	348	365	386	354	365	338	330	356	360	321
Maternal smoking																	
Smoking	1,354	1,335	1,212	1,145	1,010	1,036	955	845	889	849	852	778	764	687	714	651	593
Not smoking	3,725	3,877	3,861	3,829	3,883	3,876	3,826	3,792	3,783	3,844	3,836	3,824	3,781	3918	3,940	3,876	3,939
Unknown	5	11	4	12	23	8	4	9	7	7	7	7	9	7	8	5	6

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table C-3. Live births and infant deaths by selected characteristics among whites: Lake County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Total	46	43	36	39	46	34	37	35	27	27	25	33	38	29	27	33	36
Sex																	
Male	28	29	24	24	28	22	18	19	18	19	16	18	21	21	12	17	27
Female	18	14	12	15	18	12	19	16	9	8	9	15	17	7	15	16	9
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Plurality																	
Single births	42	41	31	36	42	31	35	35	26	24	23	29	31	28	25	26	29
Multiple births	4	2	5	3	4	3	2	0	1	3	2	4	7	1	2	7	7
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Birth weight (grams)																	
<2,500	30	22	19	23	36	15	20	15	16	18	16	18	22	12	14	17	23
<1,500	23	12	14	17	25	8	18	11	12	16	11	14	18	10	8	12	20
1,500-2,499	7	10	5	6	11	7	2	4	4	2	5	4	4	2	6	5	3
>=2,500	15	20	16	14	10	17	13	18	10	8	5	15	13	14	13	15	13
Unknown	1	1	1	2	0	2	4	2	1	1	4	0	3	3	0	1	0
Gestational age (weeks)																	
<37	28	22	20	24	33	14	25	19	16	18	20	17	26	19	16	19	24
<32	23	13	12	20	25	9	23	15	12	17	17	14	19	13	8	14	22
32-36	5	9	8	4	8	5	2	4	4	1	3	3	7	6	8	5	2
>=37	18	21	15	13	13	18	10	16	11	9	5	16	12	10	11	14	12
Unknown	0	0	1	2	0	2	2	0	0	0	0	0	0	0	0	0	0
Age of mother (years)																	
<20	7	4	7	8	6	7	10	9	5	3	3	4	2	7	5	4	2
<18	3	2	1	3	5	1	3	2	1	1	1	0	1	1	3	2	1
18-19	4	2	6	5	1	6	7	7	4	2	2	4	1	6	2	2	1
>=20	39	39	29	31	40	27	27	26	22	24	22	29	36	22	22	29	34
20-24	13	15	8	7	17	9	8	8	6	4	4	12	10	9	8	3	15
25-29	11	13	8	12	9	8	9	9	9	10	9	10	14	5	6	14	12
30-34	10	5	7	8	9	7	6	6	4	9	4	6	9	3	4	6	3
>=35	5	6	6	4	5	3	4	3	3	1	5	1	3	5	4	6	4
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Age / Education (years)																	
<20 / <appropriate	0	2	3	3	1	0	0	4	2	0	0	2	0	3	3	2	2
<20 / appropriate	6	2	4	4	5	7	10	5	3	3	3	2	2	4	2	2	0
>=20 / <12	6	6	4	6	9	4	5	3	3	2	1	7	5	5	6	7	6
>=20 / 12	20	24	9	8	22	15	13	10	9	16	6	9	14	8	5	7	14
>=20 / >12	13	9	16	17	8	8	9	12	7	6	15	12	14	8	11	15	14
Unknown	1	0	0	1	1	0	0	1	3	0	0	1	3	1	0	0	0

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table C-3. Live births and infant deaths by selected characteristics among whites: Lake County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Education (years)																	
<12	9	8	8	12	14	7	9	9	6	4	3	10	6	10	11	9	8
0-8	3	4	3	4	5	1	0	2	0	0	1	2	0	1	2	5	1
9-11	6	4	5	8	9	6	9	7	6	4	2	8	6	9	9	4	7
=12	23	26	12	9	23	19	19	12	10	17	6	9	14	10	5	9	14
>12	13	9	16	17	8	8	9	13	8	6	16	13	15	8	11	15	14
13-15	5	4	8	10	5	5	3	7	7	3	6	10	8	5	6	12	10
>=16	8	5	8	7	3	3	6	6	1	3	10	3	7	3	5	3	4
Unknown	1	0	0	1	1	0	0	1	3	0	0	1	3	1	0	0	0
Live-birth order																	
First	17	11	11	12	13	13	18	19	5	10	10	9	14	12	11	10	13
Second	17	15	10	18	13	11	8	11	8	8	10	14	7	6	7	10	16
Third	7	13	11	2	9	7	6	2	7	4	3	5	12	5	3	5	4
Fourth+	4	4	4	6	11	3	5	3	4	5	1	4	4	5	6	8	2
Unknown	1	0	0	1	0	0	0	0	3	0	1	1	1	1	0	0	1
Marital status																	
Married	34	28	24	24	19	19	16	19	14	15	17	17	20	14	16	15	14
Unmarried	12	15	12	15	26	15	21	16	13	12	8	16	18	15	11	18	22
Unknown	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Prenatal care began																	
First trimester	34	36	29	28	27	25	29	25	18	21	17	22	26	21	21	22	25
After first trimester	8	4	6	5	9	5	2	6	3	4	3	6	5	3	3	7	6
Second trimester	7	3	4	5	8	4	2	4	3	4	2	6	5	1	3	6	5
Third trimester	1	1	2	0	1	1	0	2	0	0	1	0	0	2	0	1	1
No care	3	1	1	2	5	1	3	2	3	1	1	2	3	0	1	2	2
Unknown	1	2	0	4	5	3	3	2	3	1	4	3	4	5	2	2	3
Prenatal care index[1]																	
Adequate plus	19	18	16	14	18	10	10	14	12	11	7	12	13	12	9	11	20
Adequate	11	10	6	11	9	9	9	5	4	6	7	11	12	4	3	8	6
Intermediate	2	7	6	3	1	3	6	1	3	3	0	2	0	2	5	4	1
Inadequate	8	4	4	2	5	3	3	5	1	1	1	1	1	2	3	3	3
No care	3	1	1	2	5	1	3	2	3	1	1	2	3	0	1	2	2
Unknown	3	3	3	7	8	8	6	8	4	5	9	5	9	9	6	5	4
Maternal smoking																	
Smoking	12	15	13	11	15	13	10	6	8	8	3	7	8	9	6	8	10
Not smoking	33	27	23	27	29	21	27	29	19	19	22	26	30	20	21	25	26
Unknown	1	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table C-4. Live births and infant deaths by selected characteristics among blacks: Lake County, Indiana, 1990-2006 linked files

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Total	2,362	2,391	2,433	2,435	2,334	2,323	2,245	2,167	2,339	2,284	2,265	2,232	2,170	2,205	2,195	2,232	2,266
Sex																	
Male	1,217	1,252	1,217	1,237	1,173	1,220	1,160	1,028	1,181	1,163	1,144	1,125	1,117	1,113	1,101	1,135	1,166
Female	1,145	1,139	1,216	1,198	1,161	1,103	1,085	1,138	1,157	1,121	1,121	1,106	1,052	1,092	1,094	1,097	1,100
Unknown	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
Plurality																	
Single births	2,283	2,322	2,362	2,373	2,266	2,248	2,193	2,097	2,262	2,204	2,190	2,138	2,083	2,140	2,117	2,138	2,170
Multiple births	79	69	71	62	68	75	52	70	77	80	75	94	87	65	78	94	96
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Birth weight (grams)																	
<2,500	280	315	322	293	303	319	310	288	280	290	292	306	270	287	315	308	338
<1,500	60	71	70	63	64	73	69	67	72	63	70	78	53	66	75	75	58
1,500-2,499	220	244	252	230	239	246	241	221	208	227	222	228	217	221	240	233	280
>=2,500	2,081	2,074	2,107	2,141	2,026	1,995	1,905	1,858	2,046	1,983	1,955	1,898	1,883	1,909	1,862	1,917	1,919
Unknown	1	2	4	1	5	9	30	21	13	11	18	28	17	9	18	7	9
Gestational age (weeks)																	
<37	467	441	473	428	455	457	426	408	417	418	412	451	412	455	450	457	469
<32	102	119	120	102	113	120	114	104	108	89	98	119	85	91	112	110	92
32-36	365	322	353	326	342	337	312	304	309	329	314	332	327	364	338	347	377
>=37	1,894	1,949	1,960	2,006	1,879	1,865	1,819	1,759	1,922	1,864	1,853	1,781	1,758	1,749	1,745	1,774	1,796
Unknown	1	1	0	1	0	1	0	0	0	2	0	0	0	1	0	1	1
Age of mother (years)																	
<20	617	632	669	670	680	657	605	555	597	505	482	423	392	395	411	400	413
<18	283	283	292	307	305	284	260	235	226	184	187	152	152	132	177	138	151
18-19	334	349	377	363	375	373	345	320	371	321	295	271	240	263	234	262	262
>=20	1,741	1,755	1,764	1,765	1,654	1,666	1,639	1,611	1,742	1,778	1,783	1,809	1,778	1,810	1,776	1,832	1,851
20-24	717	759	847	783	789	797	780	755	776	842	840	817	820	784	755	762	738
25-29	532	496	467	505	458	410	424	450	506	519	533	549	513	543	574	587	619
30-34	350	352	303	334	242	272	269	254	278	269	255	292	290	318	303	325	308
>=35	142	148	147	143	165	187	166	152	182	148	155	151	155	165	144	158	186
Unknown	4	4	0	0	0	0	1	1	0	1	0	0	0	0	8	0	2
Age / Education (years)																	
<20 / <appropriate	74	73	96	93	98	86	103	82	108	84	69	78	59	74	58	65	69
<20 / appropriate	538	558	573	574	581	568	501	471	487	416	410	434	331	321	352	332	341
>=20 / <12	210	219	240	242	234	231	231	245	219	275	253	278	295	309	294	297	287
>=20 / 12	808	800	858	850	751	703	736	712	734	747	768	718	713	713	730	735	725
>=20 / >12	718	734	664	668	660	722	665	645	782	744	758	808	765	783	739	790	827
Unknown	14	7	2	8	10	13	9	12	9	18	7	7	7	5	22	13	17

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table C-4. Live births and infant deaths by selected characteristics among blacks: Lake County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Live births								
Education (years)																	
<12	573	602	659	671	675	642	625	576	593	570	529	533	519	535	541	519	534
0-8	36	36	40	40	49	42	37	27	34	35	27	21	37	28	29	19	17
9-11	537	566	619	631	626	600	588	549	559	535	502	512	482	507	512	500	517
=12	1,013	1,004	1077	1,052	960	914	913	900	935	922	933	857	842	859	867	884	859
>12	766	782	695	704	689	754	699	680	802	775	796	835	802	806	773	816	858
13-15	626	651	583	553	571	618	562	520	639	616	628	661	626	633	605	605	653
>=16	140	131	112	151	118	136	137	160	163	159	168	174	176	173	168	211	205
Unknown	10	3	2	8	10	13	8	11	9	17	7	7	7	5	14	13	15
Live-birth order																	
First	900	923	915	914	865	923	849	778	815	743	729	737	687	695	724	694	721
Second	650	647	735	708	658	642	681	619	669	649	645	653	599	600	563	567	632
Third	433	414	384	416	410	383	360	389	446	456	439	386	433	441	416	439	408
Fourth+	376	404	397	394	395	365	352	375	404	426	446	451	449	464	492	529	502
Unknown	3	3	2	3	6	10	3	6	5	10	6	5	2	5	0	3	3
Marital status																	
Married	548	548	464	502	423	417	433	462	467	463	487	514	456	457	415	438	455
Unmarried	1,814	1,840	1969	1,933	1,911	1,906	1,811	1,705	1,871	1,821	1,777	1,718	1,713	1,747	1,780	1,793	1,811
Unknown	0	3	0	0	0	0	1	0	1	0	1	0	1	1	0	1	0
Prenatal care began																	
First trimester	1,475	1,461	1589	1,543	1,498	1,596	1,401	1,372	1,508	1,502	1,547	1,539	1,506	1,541	1,525	1,514	1,586
After first trimester	792	829	761	760	709	615	711	670	690	648	616	559	564	579	579	604	572
Second trimester	676	683	647	651	582	518	591	569	564	543	523	464	472	466	478	492	464
Third trimester	116	146	114	109	127	97	120	101	126	105	93	95	92	113	101	112	108
No care	68	85	76	107	94	77	100	82	92	66	64	58	58	55	56	47	73
Unknown	27	16	7	25	33	35	33	43	49	68	38	76	42	30	35	67	35
Prenatal care index[1]																	
Adequate plus	635	640	794	801	784	819	713	661	714	778	817	828	784	791	765	837	838
Adequate	667	672	677	675	601	589	501	536	585	547	558	581	554	585	575	536	545
Intermediate	351	341	307	282	267	286	277	287	316	261	268	196	237	254	287	243	296
Inadequate	585	613	548	529	501	442	515	470	491	454	430	370	406	396	389	418	402
No care	68	85	76	107	94	77	100	82	92	66	64	58	58	55	56	47	73
Unknown	56	40	31	41	87	110	139	131	141	178	128	199	131	124	123	151	112
Maternal smoking																	
Smoking	546	447	461	395	386	349	327	239	334	290	261	268	274	280	267	246	247
Not smoking	1,812	1,940	1,972	2,039	1,945	1,966	1,915	1,925	2,005	1,992	2,000	1,963	1,893	1,925	1,924	1,986	2,018
Unknown	4	4	0	1	3	8	3	3	0	2	4	1	3	0	4	0	1

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table C-4. Live births and infant deaths by selected characteristics among blacks: Lake County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Total	34	40	36	42	39	42	38	29	43	33	32	30	32	24	34	39	33
Sex																	
Male	24	23	19	24	22	26	17	12	17	22	20	17	16	17	18	20	17
Female	10	17	17	18	17	16	21	17	25	11	12	12	15	7	16	19	16
Unknown	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0
Plurality																	
Single births	31	33	35	40	32	39	31	26	40	32	31	27	23	16	29	33	29
Multiple births	3	7	1	2	7	3	7	3	3	1	1	3	9	8	5	6	4
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Birth weight (grams)																	
<2,500	22	27	24	31	26	26	18	18	30	19	13	20	23	18	28	28	24
<1,500	13	19	18	24	23	23	15	17	29	14	9	19	16	15	23	23	17
1,500-2,499	9	8	6	7	3	3	3	1	1	5	4	1	7	3	5	5	7
>=2,500	11	12	11	10	11	11	17	9	12	12	16	8	9	6	3	9	8
Unknown	1	1	1	1	2	5	3	2	1	2	3	2	0	0	0	2	1
Gestational age (weeks)																	
<37	18	31	25	31	32	30	21	21	31	20	13	23	24	18	28	25	24
<32	14	23	19	25	28	27	19	19	29	17	9	22	17	15	27	24	17
32-36	4	8	6	6	4	3	2	2	2	3	4	1	7	3	1	1	7
>=37	15	9	11	11	7	12	17	8	12	13	19	7	8	6	6	14	9
Unknown	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Age of mother (years)																	
<20	6	13	7	7	15	11	9	7	4	4	7	7	7	3	4	5	5
<18	3	7	2	3	5	4	5	4	1	0	5	3	3	2	1	3	0
18-19	3	6	5	4	10	7	4	3	3	4	2	4	4	1	3	2	5
>=20	28	27	29	35	24	31	29	22	39	29	25	23	25	21	30	34	28
20-24	13	9	11	13	16	16	13	5	21	10	12	7	14	9	10	12	11
25-29	11	12	8	12	6	5	6	9	7	7	6	7	6	7	12	13	8
30-34	3	3	7	7	2	5	7	4	6	8	4	2	2	4	3	5	5
>=35	1	3	3	3	0	5	3	4	5	4	3	7	3	1	5	4	4
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Age / Education (years)																	
<20 / <appropriate	0	3	1	1	2	1	1	0	1	2	0	0	1	0	2	0	1
<20 / appropriate	6	10	6	6	13	10	8	7	3	2	7	7	6	3	2	5	3
>=20 / <12	6	3	3	4	4	3	8	3	7	4	5	3	3	3	4	7	4
>=20 / 12	10	14	10	16	9	15	9	8	16	14	14	10	18	5	9	15	15
>=20 / >12	12	10	16	15	11	13	12	11	16	11	6	10	4	13	17	12	9
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

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Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set

Table C-4. Live births and infant deaths by selected characteristics among blacks: Lake County, Indiana, 1990-2006 linked files--Con.

Characteristics	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
									Infant deaths								
Education (years)																	
<12	9	12	6	8	11	9	14	8	10	7	10	7	7	6	8	11	6
0-8	2	2	1	0	0	0	1	0	0	0	0	0	0	1	1	1	0
9-11	7	10	5	8	11	9	13	8	10	7	10	7	7	5	7	10	6
=12	11	18	14	18	15	20	12	9	17	15	15	12	20	5	9	16	17
>12	14	10	16	16	13	13	12	12	16	11	7	11	5	13	17	12	9
13-15	11	5	15	11	12	11	11	7	13	8	7	10	5	8	15	8	8
>=16	3	5	1	5	1	2	1	5	3	3	0	1	0	5	2	4	1
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Live-birth order																	
First	13	11	11	17	15	16	11	7	14	11	13	11	8	8	13	15	12
Second	5	20	13	14	17	11	10	11	12	11	3	8	9	7	10	3	4
Third	9	3	4	7	5	7	6	8	11	8	9	3	8	3	6	8	8
Fourth+	7	6	8	4	2	8	11	3	6	3	7	8	7	6	5	13	9
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Marital status																	
Married	12	7	6	10	4	4	8	6	9	6	2	7	4	6	8	9	7
Unmarried	22	33	30	32	35	38	30	23	34	27	30	23	28	18	26	30	26
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prenatal care began																	
First trimester	21	28	26	23	29	25	19	21	28	21	23	24	14	15	29	26	22
After first trimester	10	6	7	11	8	9	13	4	8	6	8	5	15	9	3	8	6
Second trimester	9	4	7	11	8	7	7	2	6	6	8	4	12	6	3	8	4
Third trimester	1	2	0	0	0	2	6	2	2	0	0	1	3	3	0	0	2
No care	3	5	3	8	2	6	4	4	7	1	1	0	3	0	1	4	4
Unknown	0	1	0	0	0	2	2	0	0	5	0	1	0	0	1	1	1
Prenatal care index[1]																	
Adequate plus	11	15	13	14	12	16	9	10	16	13	13	15	11	11	15	19	12
Adequate	6	7	8	8	10	4	7	8	7	4	4	6	4	0	7	4	4
Intermediate	6	6	4	5	5	4	3	1	5	1	6	1	2	3	4	1	3
Inadequate	7	5	6	6	7	6	10	4	6	4	3	5	10	6	2	8	6
No care	3	5	3	8	2	6	4	4	7	1	1	0	3	0	1	4	4
Unknown	1	2	2	1	3	6	5	2	2	10	5	3	2	4	5	3	4
Maternal smoking																	
Smoking	9	6	7	11	6	11	10	3	8	8	6	6	5	1	5	4	7
Not smoking	25	34	29	31	33	31	28	26	35	25	26	24	27	23	29	35	26
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

[1]Based on APNCU index (Kotelchuck, M., Am J Public Health 1994;84:1414-1420).

Source: Indiana State Department of Health, Maternal and Children's Special Health Care Services
Report: Indiana Infant Mortality Report, 1990-2006, Statistics from the Period Linked Birth/Infant Death Data Set