



## 1B.

### **NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH**

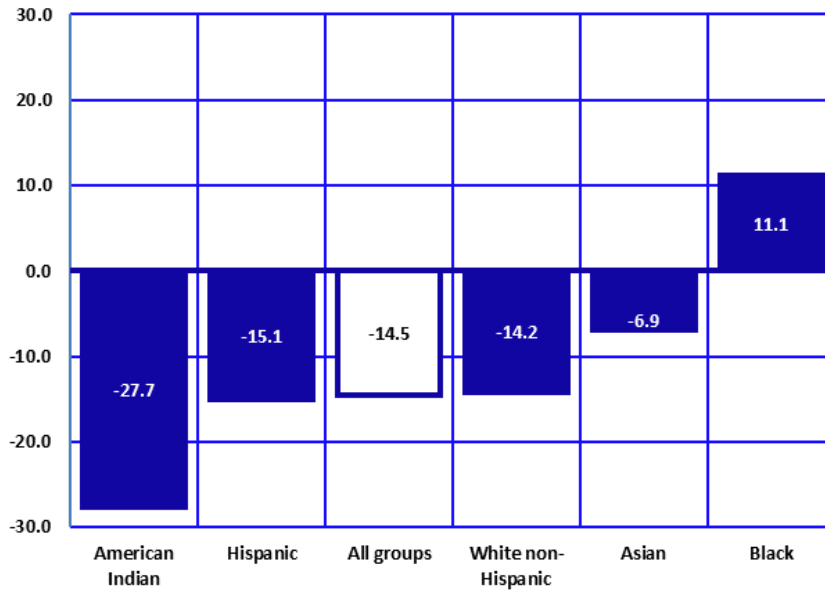
The number of resident births reached its recent peak in 2007 at 102,687 (**Table 1B-2**). In 2008, the number of resident births declined to 99,215; the first annual decline since 1991 (which, like 2008, also was an economic downturn year). Since 2008, the number of births has been declining—with exception of 2014—reaching a low of 79,183 resident births in 2019, the lowest number of births recorded in Arizona since 1999 (80,505). From 2018 to 2019, the number of residents' births decreased by 1.7 percent, representing a reduction of 1,356 births.

There were striking differences in how the number of births changed from 2009 to 2019 by mother's race/ethnicity. Compared to 2009, the number of births for all combined racial/ethnic groups was 14.5 percent lower in 2019. Taken separately, while the number of births rose by 11.1 percent for Black or African American mothers between 2009 and 2019, the remaining racial/ethnic groups witnessed a decline in their birth counts, with American Indian women experiencing most of the decrease (27.7) during the period of time under consideration (**Figure 1B-1**).

Since the 2008 edition of this report, we have been pointing out that Hispanics, unlike any other racial/ethnic group in the State were hit the hardest by the recession, which may explain the decline in their birth rate. However, it is important to note that the decline in births to Hispanic or Latino mothers started before the recession, then accelerated during the recession and even as the economy was recovering. Meanwhile, the estimated number of Hispanic women of childbearing age (15–44 years) has increased from 415,164 in 2009 to 522,873 in 2019. Hence, the decrease in Hispanic births may only be attributed in part to the unfavorable economic conditions of this group, and to a large extent to changes in childbearing behaviors, as more Hispanic women are delaying motherhood.

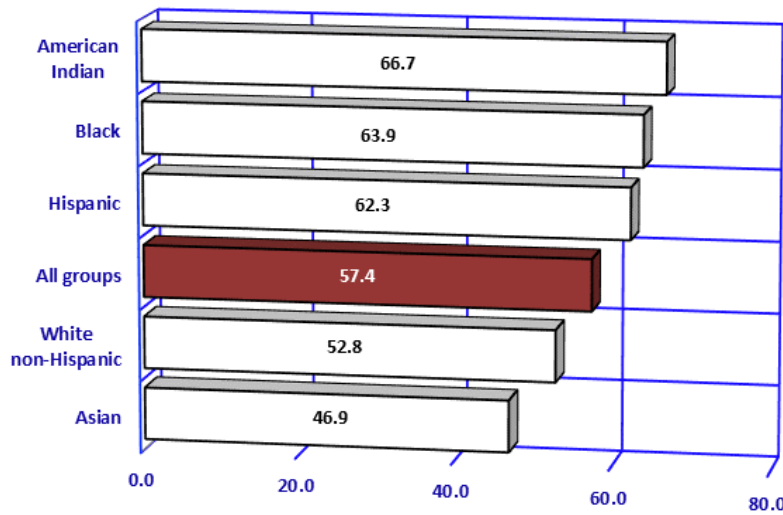
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**Figure 1B-1**  
**Percent Change from 2009 to 2019 in the Number of Resident Live Births by**  
**Mother's Race/Ethnicity, Arizona**



From 2009 to 2019, the number of resident live births declined by 14.5 percent (**Figure 1B-1**). All racial/ethnic groups experienced a decrease in the number of live births, with the exception of Blacks. The magnitude of the reduction in the number of births was the largest among American Indians (27.7 percent) and Hispanics or Latinos (15.1 percent).

**Figure 1B-2**  
**General Fertility Rates<sup>a</sup> by Race/Ethnicity among Females of all Ages,**  
**Arizona, 2019**



From among 1,379,043 women of childbearing age (15-44 years), 5.7 percent gave birth in 2019. The *general fertility rate* (the number of births per 1,000 women 15-44 years old; GFR) was the highest for American Indian followed by Black females, and Hispanic females. The GFR for Asian females was the lowest of all racial/ethnic groups.

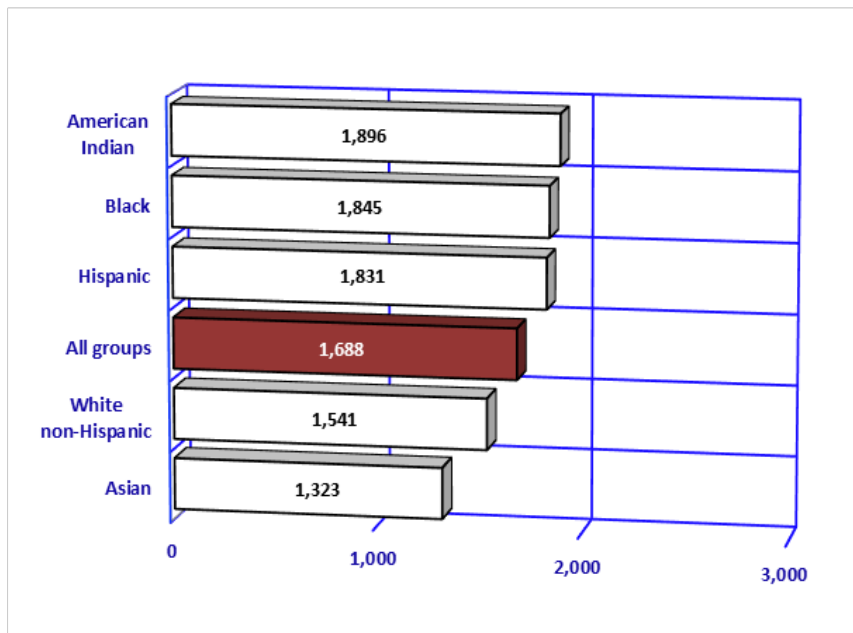
A comparison of fertility rates by county in Arizona is provided in **Table 5A-1**.

Note: <sup>a</sup> Number of births per 1,000 females 15-44 years old in specified group.

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**Figure 1B-3**  
Total Fertility Rates<sup>a</sup> by Race/Ethnicity, Arizona, 2019

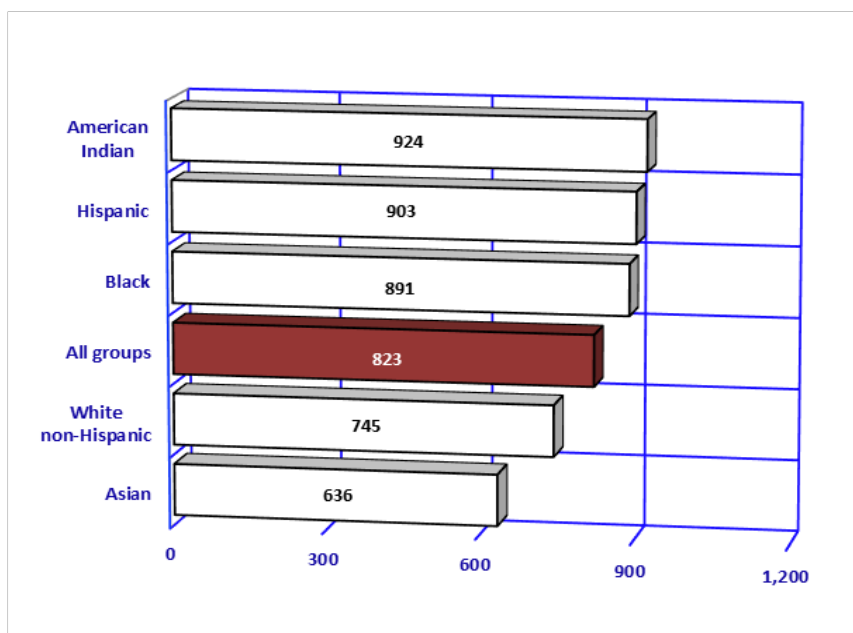
The *total fertility rate* (TFR) indicates the average number of births to a hypothetical cohort of 1,000 women, if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. From 2003 to 2008, Arizona's TFRs always exceeded the rate of "replacement" (2,110 births per 1,000 women. The "replacement" rate is considered the value at which a given generation can exactly replace itself. The TFR was 2,058 births per 1,000 women of childbearing age in 2009 and 2010, decreasing to 1,688 in 2019 (**Table 1B-1**). In 2019, The TFR for American Indian women (1,896)-the highest of all racial/ethnic groups-was 10.1 lower than the generation replacement rate. The rate for Asian women (1,323), -the lowest of all groups- was 37.3 percent lower than the replacement rate.



Notes: <sup>a</sup> The sum of age group-specific birth rates multiplied by five (the number of years in the age group). The rate of 1,688 above for example, means that if a hypothetical group of 1,000 women were to have the same birth rates in each age group that were observed in the actual childbearing population in 2019, they would have a total of 1,688 children (or 1.7 children each) by the time they reached the end of the reproductive period (taken here as age 50), assuming that all of the women survived to that age.

**Figure 1B-4**  
Gross Reproduction Rates<sup>a</sup> by Race/Ethnicity, Arizona, 2019

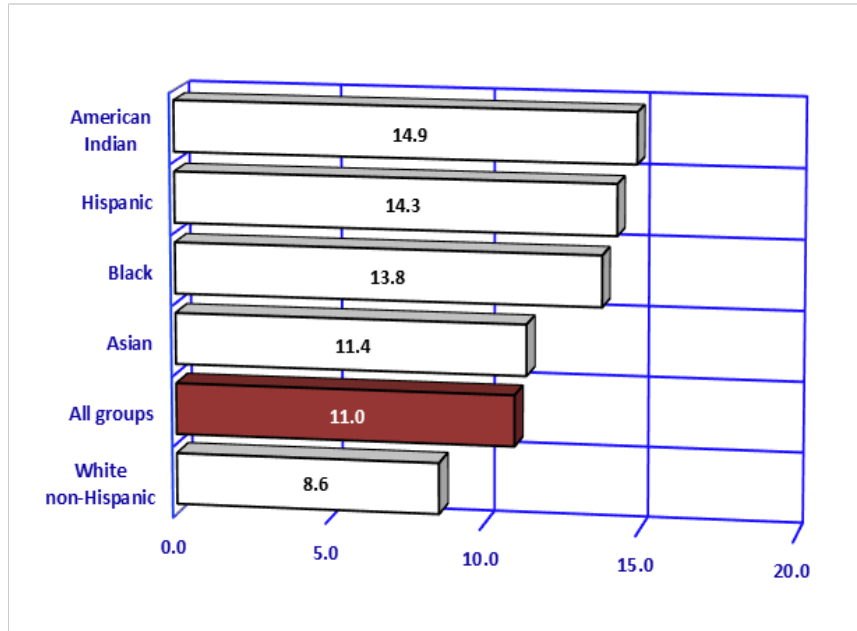
Another measure used to summarize reproduction patterns is the *gross reproduction rate* (GRR). It represents the average number of daughters born to a hypothetical cohort of 1,000 women if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. This measure is similar to the total fertility rate except that it measures only female births, since reproduction is largely dependent on the number of females in a given population. In 2019, the gross reproduction rates in Arizona ranged from 636 for Asian women to 924 for American Indian women (**Figure 1B-4, Table 1B-1**).



Notes: <sup>a</sup> The sum of birth rates by 5-year age groups multiplied by the proportion of births which were female. The gross reproduction rate represents the average number of daughters born to a hypothetical cohort of 1,000 women if they experienced the age-specific birth rates observed in a given year throughout their childbearing years, and if none of the cohort was to die during their childbearing years.

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**Figure 1B-5**  
Birth Rates<sup>a</sup> by Race/Ethnicity, Arizona, 2019



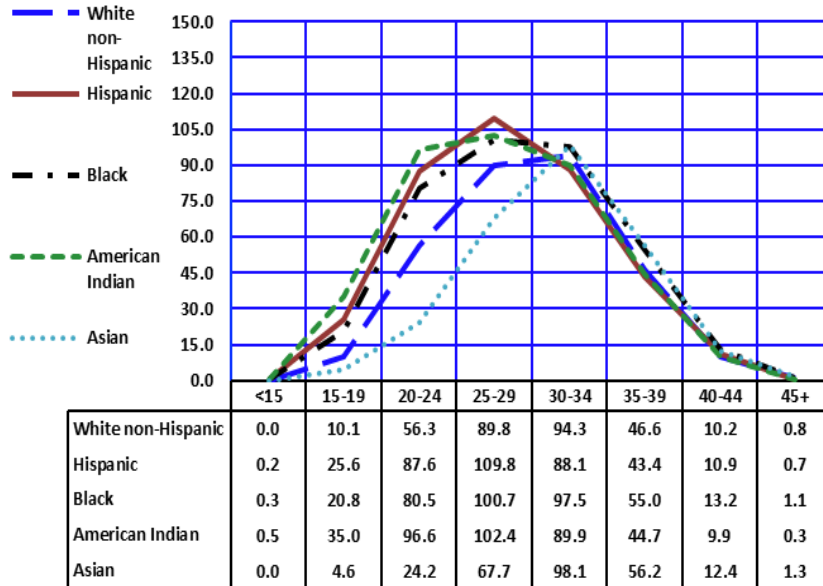
The crude birth rate, often simply called the birth rate, relates the number of births to the total population in a specified group. The birth rate is expressed as the total number of births per 1,000 persons, without regard to the age or sex distribution of the population.

The birth rate for Arizona decreased from 11.7 in 2017 to 11.4 in 2018 and 11.0 in 2019.

In 2019, the crude birth rates by mother's race/ethnicity ranged from 8.6 births per 1,000 White non-Hispanics to 14.9 per 1,000 American Indians (**Figure 1B-5**).

Note: <sup>a</sup> Number of births per 1,000 population in specified group.

**Figure 1B-6**  
Birth Rates<sup>a</sup> by Mother's Age Group and Race/Ethnicity, Arizona, 2019



The age-specific birth rates (the number of births to mothers in a particular age group per 1,000 women in that age group) differed substantially by race/ethnicity (**Figure 1B-6**).

In 2019, American Indian and Hispanic women had the highest birth rates for women under the age of 25 years. The birth rates for women between the ages of 30-34 and 35-39 were the highest among Asian women. In general, Hispanic, Black, and American Indian women tend to give birth at younger ages than Asian and non-Hispanic White women.

Note: <sup>a</sup> Number of births per 1,000 females in specified group.

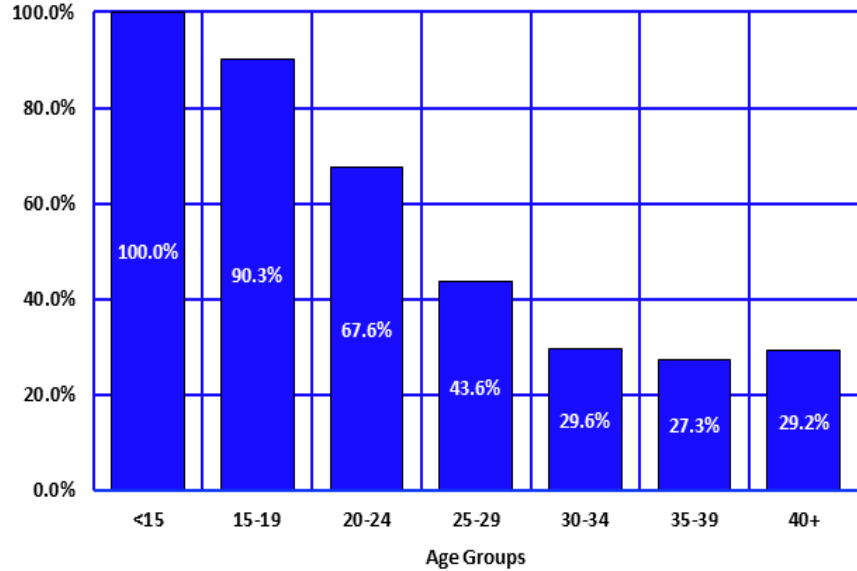
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**Figure 1B-7**  
**Percent of Births to Unmarried Mothers by Age Group, Arizona, 2019**

Unmarried mothers have accounted for an increasing annual proportion of births throughout the 1980s and 1990s. In 2019, 35,610 infants were born to unmarried mothers compared to 41,856 in 2009. It is important to note that beginning 2015, divorced mothers have been included in the proportion of unmarried mothers; therefore, caution should be exercised in comparing data for this year to those of the previous years.

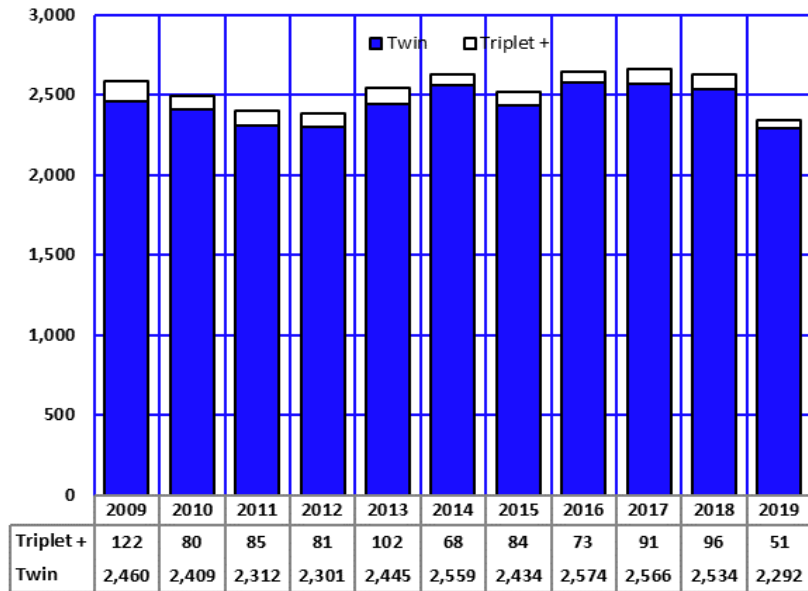
A decade ago, the proportion of births among unmarried women aged 20-24 years was 62.1 percent, while in 2019, approximately 67.6 percent of mothers 20-24 years old were unmarried (**Figure 1B-7**).

Births and birth ratios by mother's marital status, age group, and race/ethnicity are given in (**Table 1B-22**). County-level information is provided in (Table **5B-14** and **5B-15**).



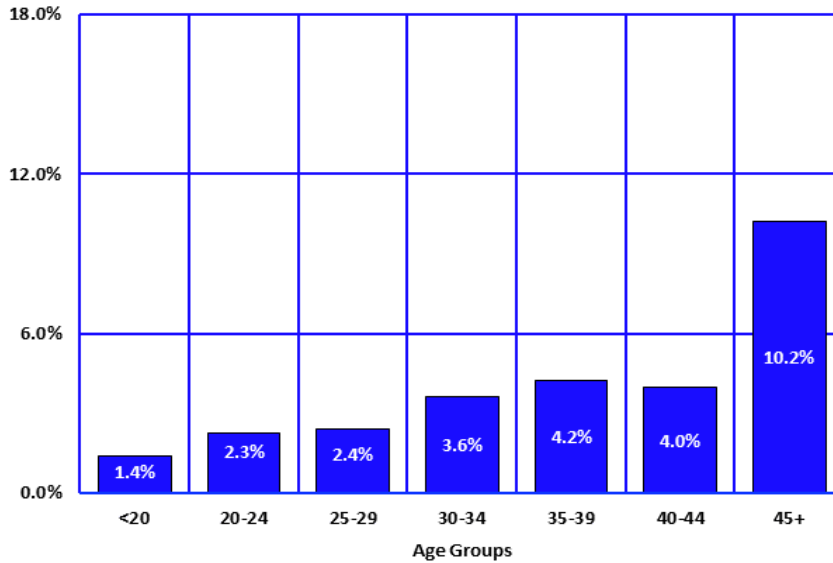
**Figure 1B-8**  
**Number of Births in Twin and Triplet+ Deliveries by Year, Arizona, 2009-2019**

The number of multiple birth events in Arizona declined from 2,582 in 2009 to 2,343 in 2019 (**Figure 1B-8**). The number of babies born in twin deliveries decreased from 2,460 in 2009 to 2,292 in 2019 (**Figure 1B-8**). The number of triplets and higher order multiple birth events decreased by 58.2 percent from 122 in 2009 to 51 in 2019.



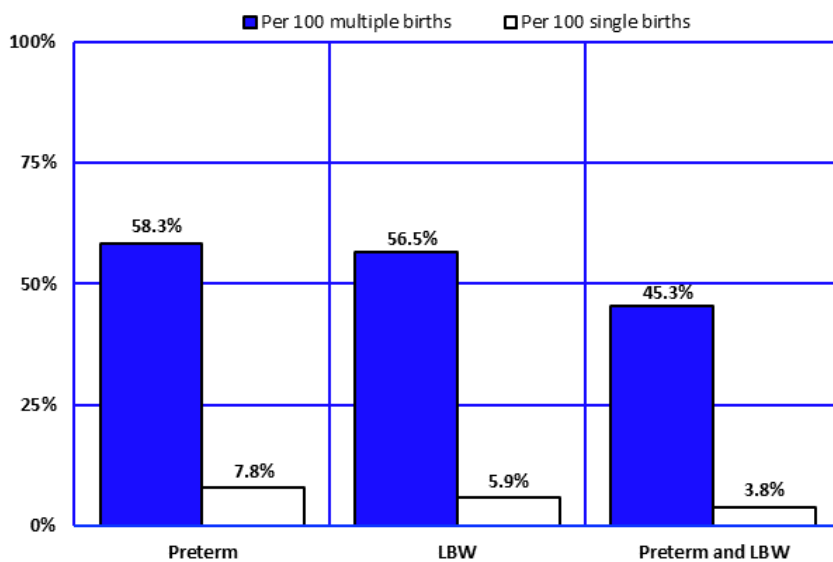
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**Figure 1B-9**  
Multiple Births by Mother's Age Group, Arizona, 2019



In 2019, the proportion of multiple births gradually increased with maternal age among mothers below 45 years of age and sharply increased among mothers age 45 years and older. Among women aged 45 years and older, 10.2 percent of all births were twins, triplets, or quadruplets (**Figure 1B-9**). The percent of all births that were multiple births to women age 45 and over decreased from 15.7 percent in 2018 to 10.2 percent in 2019. Ongoing monitoring of multiple births among older mothers will help better understand the recent variation that has been found in this measure.

**Figure 1B-10**  
Infants Born too Early (Preterm)<sup>a</sup> and Infants Born too Small (LBW)<sup>b</sup> among Multiple and Single Births, Arizona, 2019



Infants born in multiple deliveries tend to be born at shorter gestation age and with low birth weight than those born in singleton deliveries (**Figure 1B-10**). In 2019, infants born in multiple deliveries were 7.5 times more likely (58.3 vs. 7.8 percent) to be born earlier than expected (at less than 37 completed weeks of gestation) and smaller (at less than 2,500 grams) than singleton births.

Preterm birth is a leading cause of infant morbidity and mortality, accounting for about 60% percent of all infant deaths (only those with matching death records); (**Figure 2C-4** in section 2C). The weight of the newborn also is an important predictor of future morbidity and mortality. In 2019, infants born at very low birth weight (<1,500 grams) accounted for 40.7 percent of all infant deaths (**Figure 2C-3**).

Notes: <sup>a</sup> Preterm is < 37 weeks of gestation; <sup>b</sup> Low birthweight is less than 2,500 grams or 5 pounds 8 ounces.

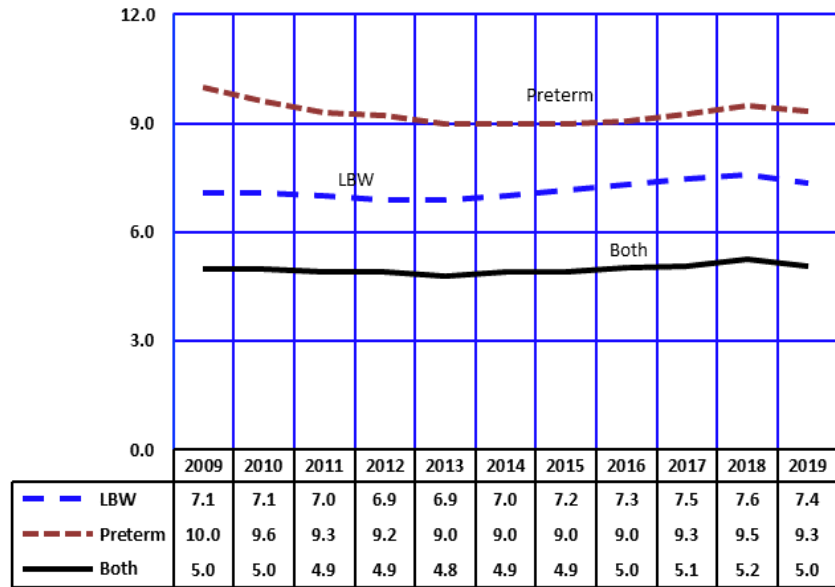
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**Figure 1B-11**  
Preterm<sup>a</sup> and Low Birthweight (LBW)<sup>b</sup> Births by Year, Arizona, 2009-2019

The proportion of preterm births reached 9.3 percent of all births in 2019, an increase from 9.3 percent, the lowest recorded rate since 2013.

The proportion of infants born prematurely and who were also low birth weight (LBW; at less than 2,500 grams) slightly decreased from 5.2/100 births in 2018 to 5.0/100 births in 2019 (Figure 1B-11).

Detailed characteristics of births by birthweight and gestational age are provided in (Table 1B-32). Comparative data by county of residence are available in (Table 5B-16 – Table 5B-24).

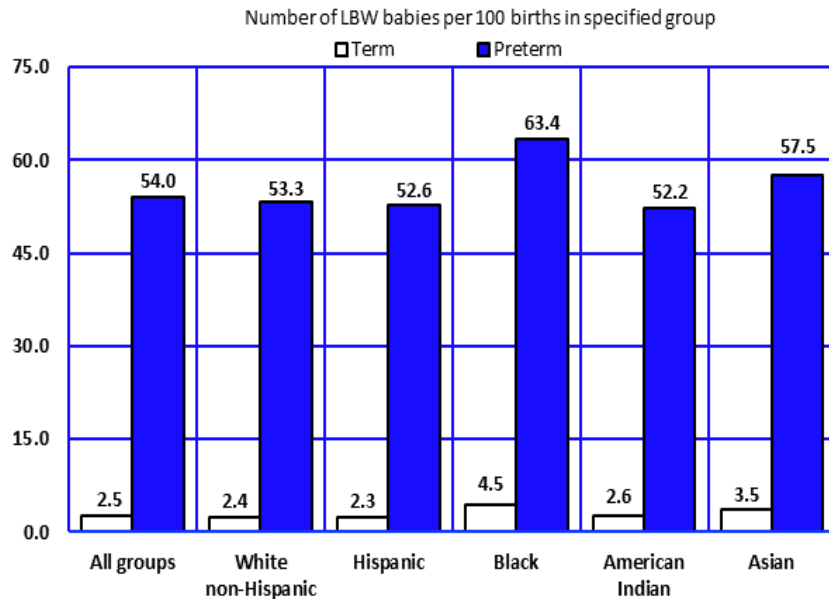


Notes: <sup>a</sup> Preterm: < 37 weeks of gestation; <sup>b</sup> Low birthweight (less than 2,500 grams or 5 pounds 8 ounces); In this report, the primary measure used to determine the gestational age is the clinical estimate of gestation as reported on the birth certificate.

**Figure 1B-12**  
Low-Birthweight (LBW) Births by Length of Gestation and Mother's Race/Ethnicity, Arizona, 2019

In 2019, 7.4 percent of all babies were born at low birthweight (LBW), (weight less than 2,500 grams or 5 pounds 8 ounces), representing a slight increase from the rate recorded in 2009 (7.1 percent). Preterm delivery is the strongest risk factor for LBW. Infants born at less than 37 completed weeks of gestation were 21.6 times (54.0 vs. 2.5 percent) more likely to be LBW than infants born at term (Figure 1B-12). Approximately, seven out of ten (68.5 percent) LBW babies born in 2019 were preterm (Table 1B-3).

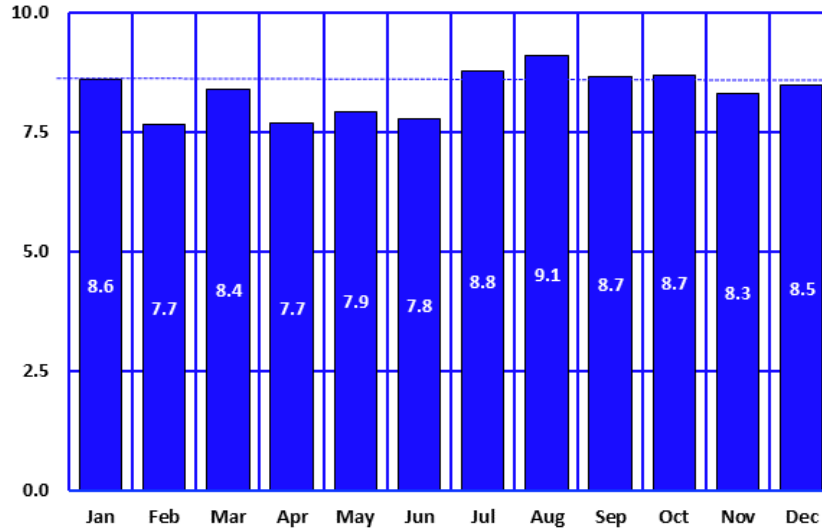
County-level data for LBW newborns are available in (Tables 5B-16 – 5B-23). Community level information is in (Table 9A).



Notes: Number of LBW babies per 100 births in specified group; Preterm: < 37 weeks of gestation; Low birthweight (less than 2,500 grams or 5 pounds 8 ounces).

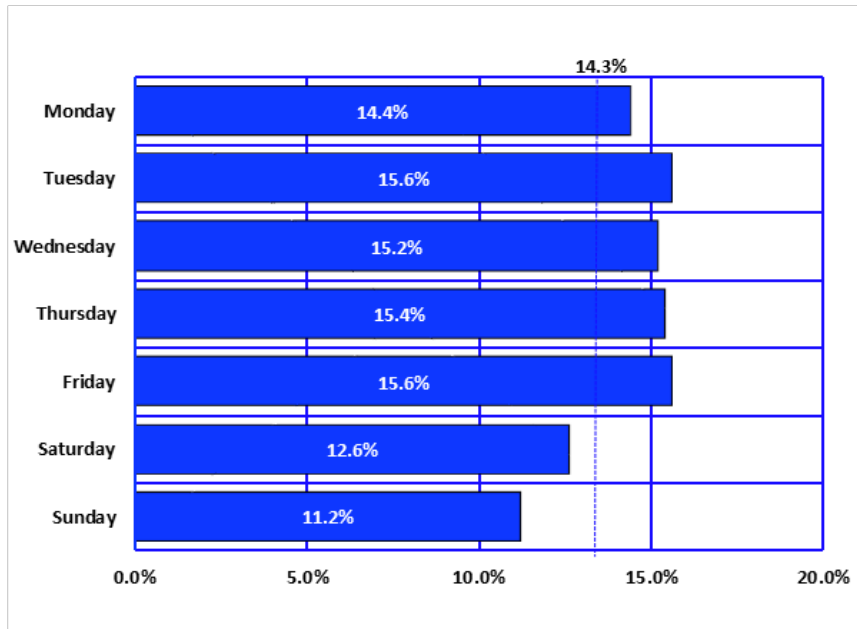
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**Figure 1B-13**  
Percent of Resident Births by Month, Arizona, 2019



Historically, births in Arizona have peaked during August and September, with a monthly average around 8.3 percent. (**Figure 1B-13**). In 2019, the seasonal fluctuation of the frequency of births is marked by peak in August, July, September, and October.

**Figure 1B-14**  
Percent of Resident Births by Day of the Week, Arizona, 2019



On average, 217 infants were born per day in 2019 to Arizona residents. The daily average of resident live births in 2019 was substantially lower on weekends than on weekdays (**Figure 1B-14**). Many studies suggest that weekly, daily, and hourly variations observed in hospitals and clinics are not due to a biological rhythm of labor, but to increased frequency of obstetric interventions in the timing of delivery (induced labors and elective cesarean deliveries), making it more aligned with the work week schedule.

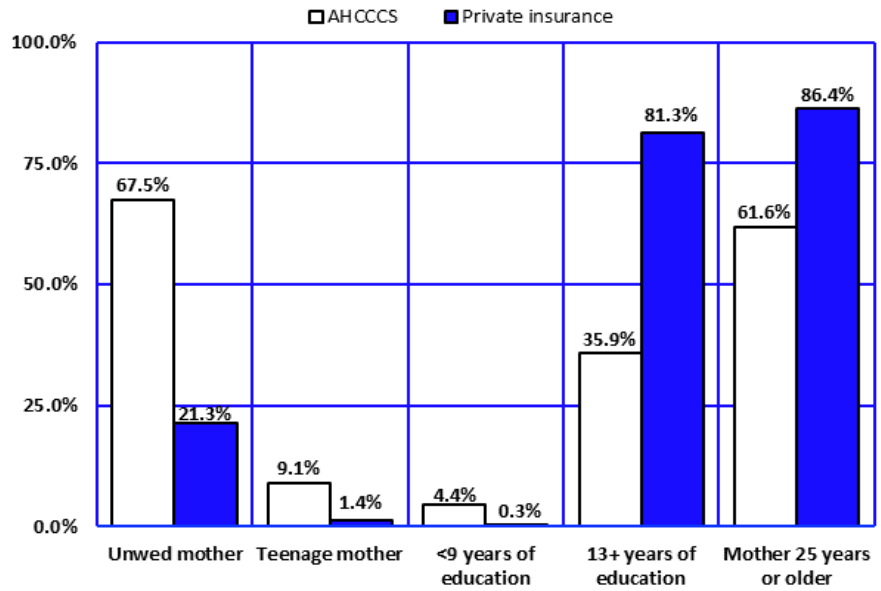
In 2019, only 8.4 percent of cesarean deliveries occurred on Sundays, compared to 16.2 percent on Mondays. The average rate of induction of labor was substantially lower on weekend days (11.5 percent) than it was on week days (15.4 percent).



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The number of years of maternal education was the only possible proxy of socioeconomic status (SES) on the birth certificate prior to 1989. Paying party for the delivery became another SES indicator in 1989. The Arizona Health Care Cost Containment System (AHCCCS, the State's Medicaid Program) versus private health insurance (PHI) compares mothers of lower and higher SES respectively. PHI mothers were 2.3 times more likely to have some college education than were AHCCCS mothers (81.3 and 35.9 percent respectively, **Figure 1B-15**). Mothers recipient AHCCCS were more likely to be unmarried (67.5%) than their counterparts with PHI. Nine out of ten mothers with PHI were at least 25 years old compared to 6 out of 10 AHCCCS mothers.

**Figure 1B-15**  
Comparison of Selected Sociodemographic Characteristics by the Payer for Delivery, Arizona, 2019

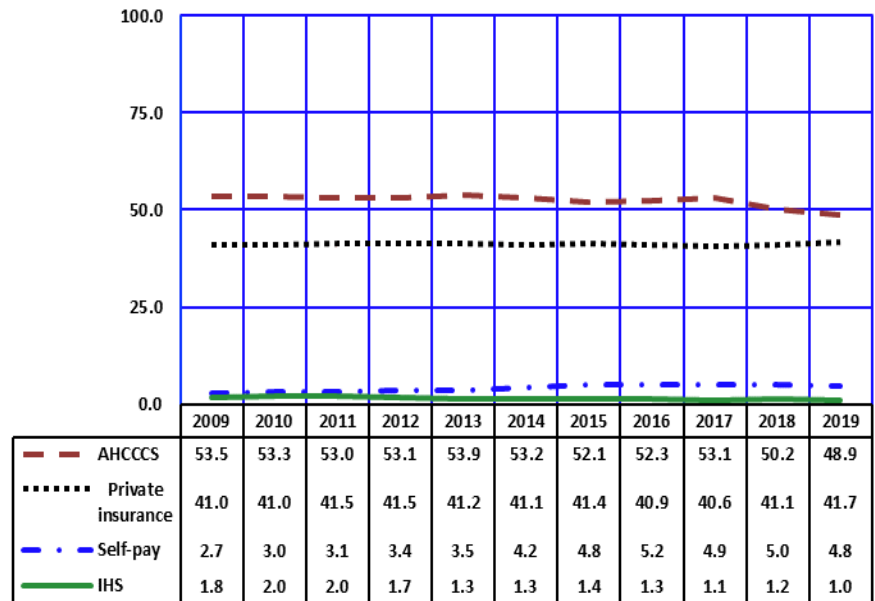


Note: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.

Since 2002, the share of resident births paid for by AHCCCS has exceeded the share paid by private health insurance (**Figure 1B-16**). In 2009, private insurance funded 41.0 percent of births and AHCCCS paid for 53.5 percent of births. Compared to 2009, in 2019 AHCCCS paid for 8.8 percent fewer births and private insurance paid for 1.7 percent fewer births.

The share of AHCCCS funded births varied little from 2009 to 2019. The share of private health insurance also remained stable during this time period. In 2019, the proportion of births paid by AHCCCS decreased 8.7 percent, while the percent of births paid by a private insurance increased 1.7 percent. In 2019, 4.8 percent of births were paid by mothers themselves and/or their families (i.e. self-pay). The Indian Health Service (IHS) paid for 1.0 percent of the births in 2019, a slight decrease from last year (**Table 1B-25 and Table 1B-27**).

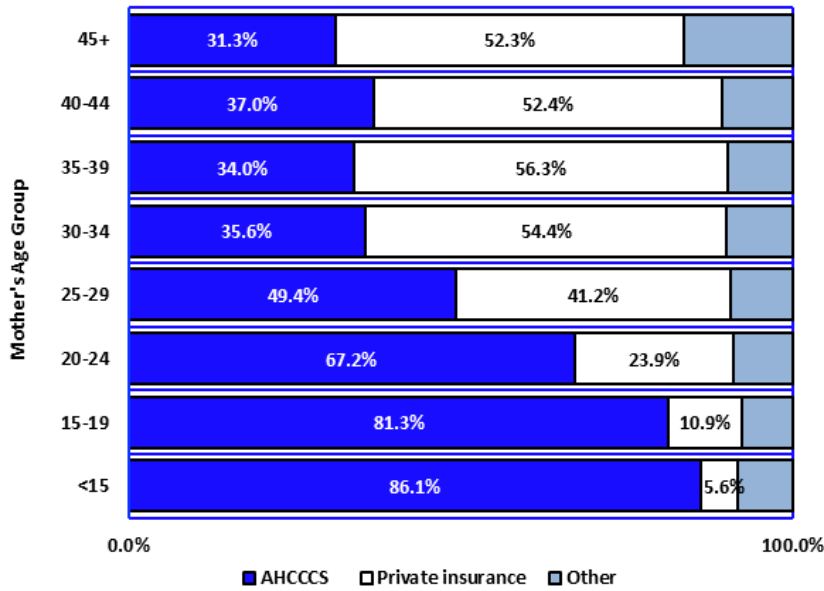
**Figure 1B-16**  
Births by Payer and Year, Arizona, 2009-2019



Notes: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program; IHS is the Indian Health Service.

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**Figure 1B-17**  
**Payer for Delivery by Mother's Age Group, Arizona, 2019**



In 2019, the Arizona Health Care Cost Containment System (AHCCCS) paid for the majority of the deliveries to mothers 29 years or younger (**Figure 1B-17**). In contrast, private insurance was the largest payer for the deliveries of women aged 30 years old or older in 2019 (based on data in **Table 1B-28**).

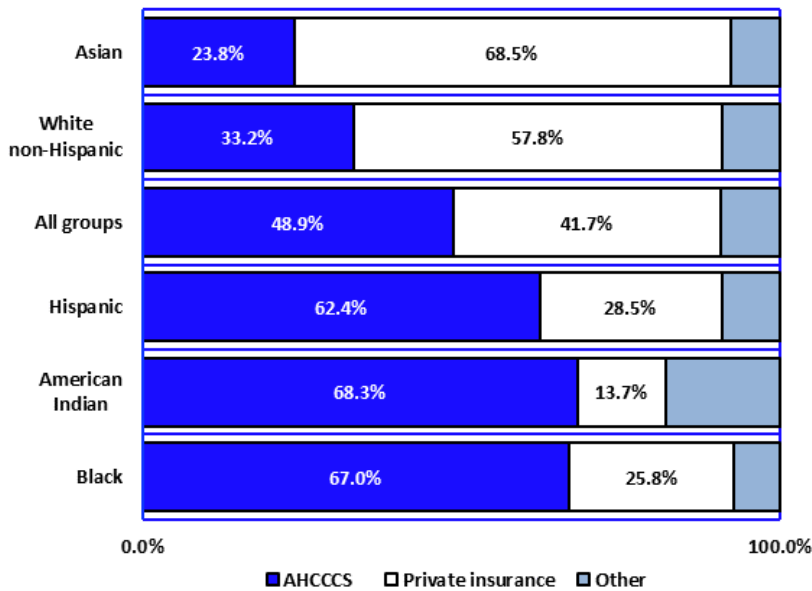
For each of the age groups the AHCCCS share substantially increased since 1989. Below are the proportions of deliveries paid for by AHCCCS in 1989:

- <15 years: 45.3 percent
- 15-19 years: 49.0 percent
- 20-24 years: 34.3 percent
- 25-29 years: 19.4 percent
- 30-34 years: 14.5 percent
- 35-39 years: 13.9 percent
- 40+ years: 14.2 percent.

From 1989 to 2019, the share of births paid for by AHCCCS more than doubled among mothers 24 years old or younger.

Note: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.

**Figure 1B-18**  
**Payer for Delivery by Mother's Race/Ethnicity, Arizona, 2019**



In 2019, private insurance was the largest payer for deliveries of Asian (68.5 percent) and White non-Hispanic infants (57.8 percent). In contrast, the Arizona Health Care Cost Containment System was the largest payer for deliveries of Black or African American (67.0 percent), American Indian (68.3 percent) Hispanic or Latino infants (62.4 percent).

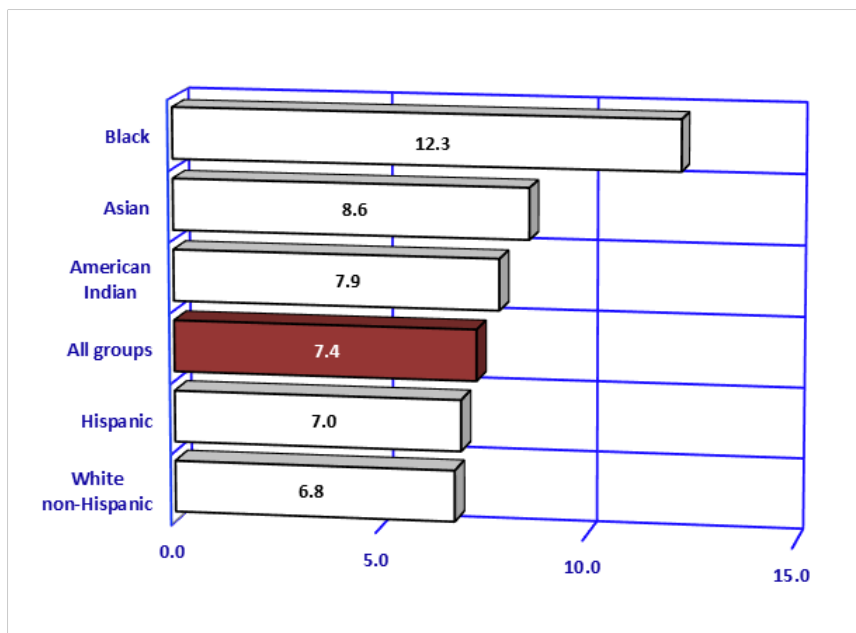
The Indian Health Service as a payer accounted for 14.9 percent of deliveries of American Indian or Alaska Native infants in the State (**Figure 1B-18**, based on data in **Table 1B-27**).

Hispanics or Latinos accounted for 52.5 percent of the 38,691 deliveries paid for by AHCCCS. About 29.3 percent of all AHCCCS births were to White non-Hispanic women (based on data in **Table 1B-27**).

Notes: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program; Other includes Indian Health Service, self-pay, or unknown.

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**Figure 1B-19**  
**Percent of Low Birthweight<sup>a</sup> by Mother's Race/Ethnicity,**  
**Arizona Residents, 2019**

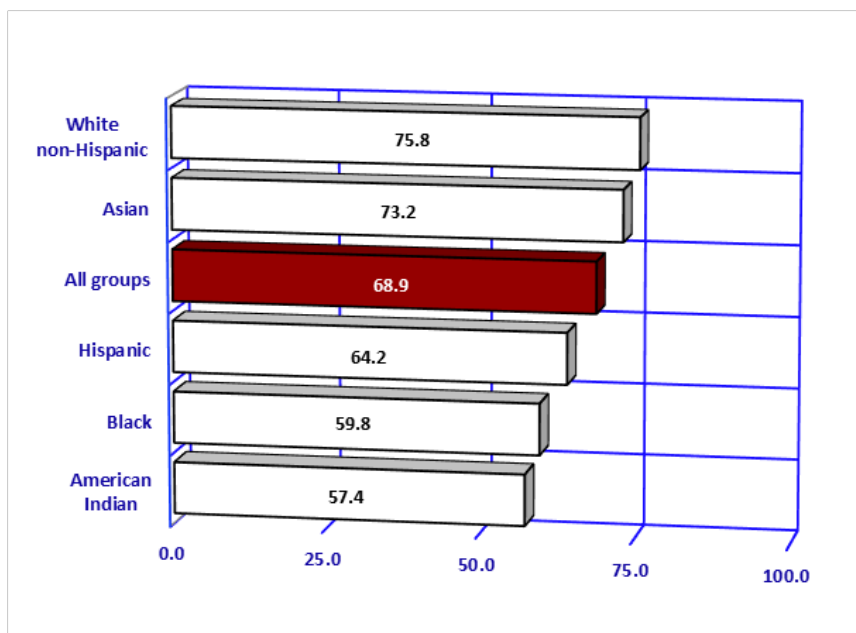


Note: <sup>a</sup> Low birthweight is less than 2,500 grams (less than 5 pounds 8 ounces).

In 2019, 7.4 percent of all Arizona infants were born at a low birthweight (LBW), or at less than 2,500 grams (5 pounds 8 ounces).

In Arizona, LBW rates differed by mother's racial/ethnic group. LBW rates were highest for newborns of Black or African American mothers (12.3 percent), Asian or Pacific Islander mothers (8.6 percent), and American Indian mothers (7.9 percent). Newborns of Hispanic or Latino and White non-Hispanic had the lowest LBW rates among all racial/ethnic groups (Table 1B-25).

**Figure 1B-20**  
**First Trimester Prenatal Care by Mother's Race/Ethnicity,**  
**Arizona Residents, 2019**

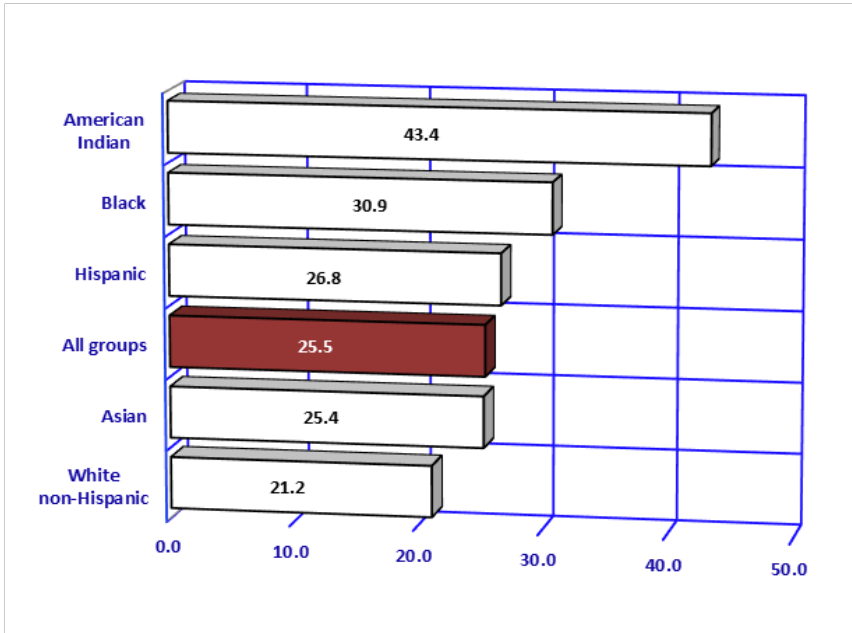


The percent of Arizona mothers giving birth who received early prenatal care (i.e., in the first trimester) has remained relatively stable from 2008 (79.4 percent) to 2013 (81.3 percent; Table 1B-2). In 2019, 68.9 percent of Arizona mothers initiated prenatal care during the first trimester. It should be noted that with the adoption of the 2003 revised U.S. birth certificate in 2014, trend analysis of the timing of prenatal care is compromised by significant changes in reporting of prenatal care initiation. Hence, the low proportion of women with timely entry to prenatal care in 2019 may be attributable for the most part to differences in reporting.

In Arizona, American Indian, Black or African American, and Hispanic or Latino mothers were least likely to begin prenatal care in the first trimester (Figure 1B-20). White non-Hispanic and Asian or Pacific Islander mothers were more likely to report timely entry to prenatal care than any other racial/ethnic groups (Table 1B-25).

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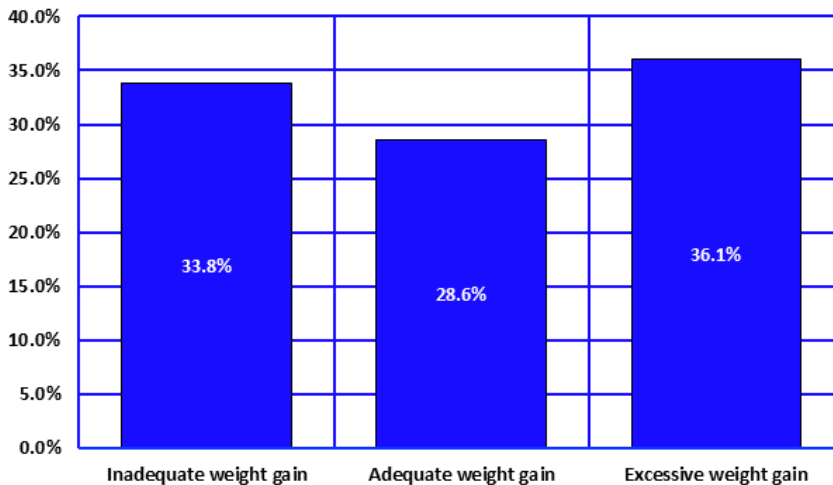
**Figure 1B-21**  
**Maternal Medical Risk Factors<sup>a</sup> by Mother's Race/Ethnicity, Arizona, 2019**



Note: <sup>a</sup> Births with medical risk factors reported per 100 births in specified group.

Maternal medical risk factors (such as, diabetes, hypertension, eclampsia, or sexually transmissible diseases) can contribute to serious pregnancy complications and infant deaths, if not treated properly. In 2019, with exception to White non-Hispanic mothers, all the mothers from the remaining race/ethnic groups recorded highest proportions of medical risk factors (**Figure 1B-21**).

**Figure 1B-22**  
**Low-Birthweight by Maternal Weight Gain during Pregnancy, Arizona, 2019**



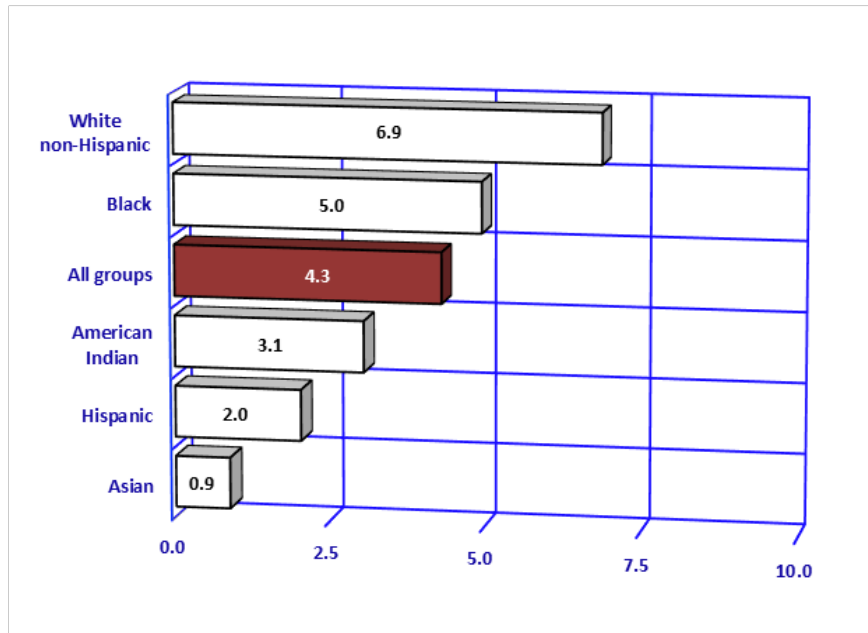
Maternal weight gain during pregnancy is a determinant of both fetal growth and birthweight. Insufficient or excessive weight gain during pregnancy can negatively influence outcomes of both mother and infant. Based on the Institute of Medicine guidelines, women who are of normal weight (body mass index or BMI 18.5-24.9) should gain 25-35 pounds during pregnancy. Underweight women (BMI <18.5) should aim to gain 28-40 pounds, while overweight women (BMI 25.0-29.9), and obese women (BMI ≥30.0) should gain 15-25 pounds and 11-20 pounds, respectively. Prior to the adoption of the 2003 revised birth certificate in 2014, it was not possible to analyze gestational weight gain in relation to mother's pre-pregnancy BMI. The revised birth certificate includes new fields (mother's height, pre-pregnancy weight, and weight at delivery) providing the opportunity to assess whether pregnancy weight gain is within the recommended range for the mother's BMI.

In 2019, the proportion of newborns with low birthweight was the lowest among mothers who gained the recommended amount of weight during pregnancy (**Figure 1B-22**).

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**Figure 1B-23**  
Self-reported Tobacco Use during Pregnancy<sup>a</sup> by Race/Ethnicity, Arizona, 2019

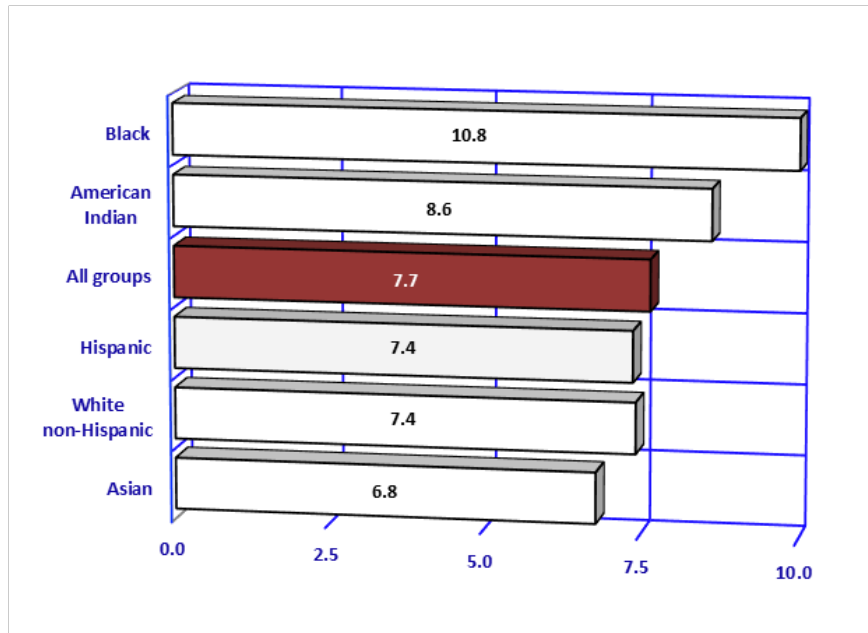
Cigarette smoking during pregnancy has been associated with reduced infant weight at birth, intrauterine growth retardation, and preterm births. Smoking during pregnancy was reported by 4.3 percent of women giving birth in 2019 (**Table 1B-25, Table 5B-30**), compared to 10.5 percent in 1989, when this information was first reported on Arizona birth certificates. It is unclear whether this decline means that women giving birth in Arizona are less likely to use tobacco during pregnancy or, perhaps, less likely to report it if they use. White non-Hispanic and Black mothers continued to be more likely to report smoking than American Indian, Hispanic, and Asian mothers (**Figure 1B-23**).



Note: <sup>a</sup> Mothers giving birth who reported tobacco use per 100 births in specified group.

**Figure 1B-24**  
Rates of Admission to Newborn Intensive Care Units<sup>a</sup> by Mother's Race/Ethnicity, Arizona, 2019

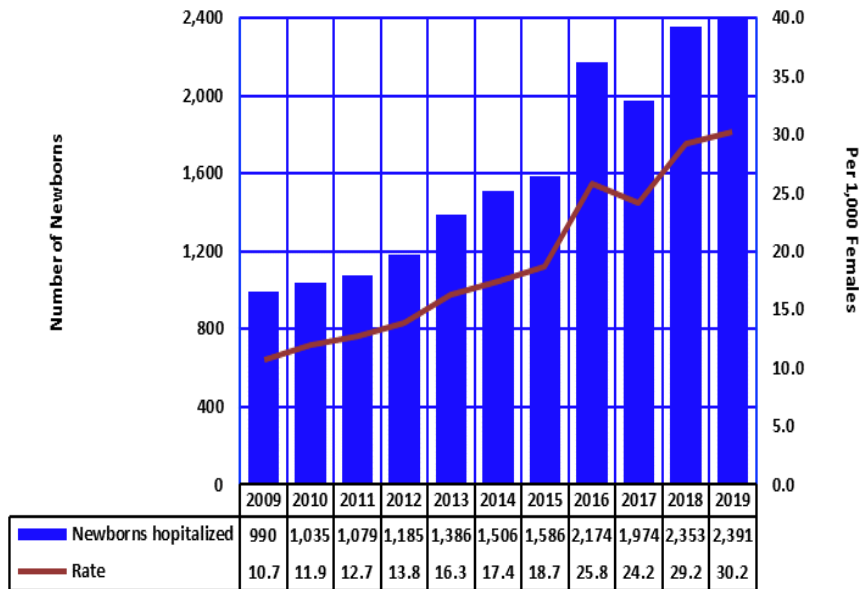
In 2019, 6,065 or 7.7 percent of newborns were admitted to newborn intensive care units (NICUs). The proportion of NICU admissions differed among racial/ethnic groups. Black or African American and American Indian newborns had the highest rates of NICU admissions compared the other racial/ethnic groups (**Table 1B-25**). Prematurity, i.e., gestational age before 37 weeks lead to more NICU admissions (53.9 percent) than did LBW (44.7 percent) **Table 1B-32**.



Note: <sup>a</sup> The number of newborns admitted to Intensive Care Units per 100 births in specified group.

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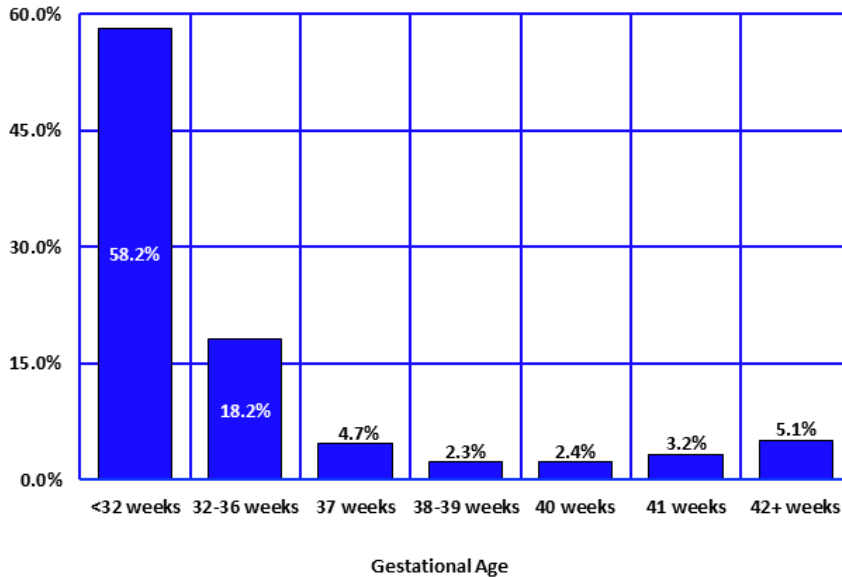
**Figure 1B-25**  
**Newborns Who Were Hospitalized after Birth because They Were Affected by Maternal Use of Drugs during Pregnancy, Arizona, 2009-2019**



Information about maternal drug use during pregnancy is not reported on Arizona birth certificates. However, it can be obtained from the hospital discharge database. There are several diagnostic codes which identify exposure of fetus or newborn to specific noxious substances (such as narcotics, hallucinogenic agents, or cocaine) transmitted via placenta or breast milk. During the 11-year period under consideration, the newborn hospitalization rate due to maternal use of drug during pregnancy increased from 10.7/1,000 in 2009 to 30.2/1,000 in 2019.

Note: Rate is the number of newborns admitted to Intensive Care Units per 1000 births in specified group.

**Figure 1B-26**  
**Abnormal Conditions of the Newborn by Gestational Age, Arizona, 2019**



With the implementation of the revised birth certificate, three of the six specific abnormal conditions listed on the birth certificate have been reported most frequently: *assisted ventilation immediately after delivery, assisted ventilation for more than six hours, and suspected neonatal sepsis*. The rates of abnormal conditions are the highest among the very preterm (less than 32 weeks of gestation) and moderately preterm babies (32-36 weeks of gestation; **Figure 1B-26**).

1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-27**  
**The Incidence of Down Syndrome by Mother's Age Group, Arizona, 2019**

Congenital anomalies (birth defects) are the leading cause of infant death in Arizona and nationally. They are also the cause of physical defects and metabolic diseases.

For various anomalies, rates vary widely with maternal age. For example, in 2019 as in prior years, the rate of Down's Syndrome, the most frequently recognized cause of intellectual disability, was substantially higher for births to mothers aged 35 years and older (**Figure 1B-27, Table 1B-33**). The incidence rate of 287.3 cases of Down's Syndrome per 100,000 births to women 35 years or older was 12.2 times greater than the incidence rate of 23.6 for women aged 24 years or younger.

