

# **CHAPTER 1**

## **REPRODUCTIVE AND PERINATAL HEALTH, ARIZONA, 2010-2020**

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- 1A. PREGNANCIES BY PREGNANCY OUTCOME,  
RACE/ETHNICITY, AND AGE GROUP**
- 1B. NATALITY: MATERNAL CHARACTERISTICS  
AND NEWBORN'S HEALTH**
- 1C. FETAL, PERINATAL, AND MATERNAL DEATHS**
- 1D. ABORTIONS**





## 1A.

### **PREGNANCIES BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND AGE GROUP**

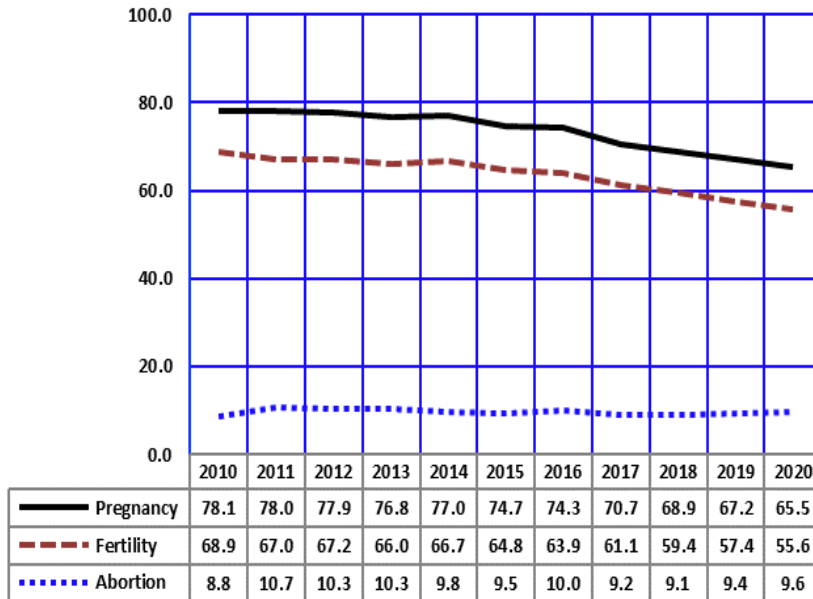
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The expression “reproductive and perinatal health” refers to a variety of health and sociodemographic characteristics of women who became pregnant, factors related to the course of their pregnancies, and the status of pregnancy outcomes. In this report, pregnancies are measured as the sum of three components: **live births** (see Section 1B), **spontaneous terminations of pregnancy** (fetal deaths or stillbirths; Section 1C), and **abortions** (Section 1D).

There were 90,444 pregnancies in 2020 compared to 92,675 pregnancies in Arizona in 2019, 98,060 in 2016, and 98,548 in 2010. The number of resident live births decreased by 3.0 percent, from 79,183 in 2019 to 76,781 (**Table 1A-1**). The number of reported abortions increased by 1.4 percent, from 13,003 in 2019 to 13,186 in 2020. The number of reportable spontaneous fetal losses decreased 2.5 percent, from 489 in 2019 to 477 in 2020.

1A. PREGNANCIES BY PREGNANCY OUTCOME, ETHNICITY, AND AGE GROUP

**Figure 1A-1**  
**Pregnancy, Fertility, and Abortion Rates<sup>a</sup> by Outcome and Year among Females of Childbearing Ages (15 – 44 years), Arizona, 2010-2020**



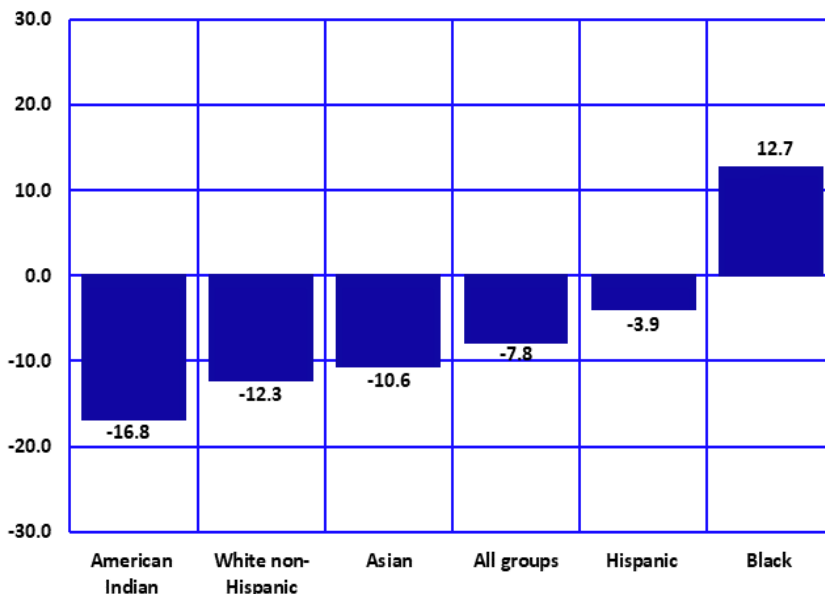
A rate is a measure of the frequency of some event (such as pregnancy, or live birth) in relation to a unit of population during a specified time period such as a year; events in the numerator of the year occur to individuals in the denominator. The pregnancy rate decreased from 67.2 pregnancies per 1,000 females of childbearing age in 2019 to 65.5 pregnancies per 1,000 females of childbearing age in 2020 (**Figure 1A-1, Table 1A-1**).

The fertility rate (the number of births per 1,000 women of childbearing age) also decreased from 57.4/1,000 in 2019 to 55.6 in 2020. In 2020, the fertility rate was 19.3 percent lower than the high rate recorded in 2010.

The abortion rate (the number of abortions per 1,000 women of childbearing age) increased 2.1 percent, from 9.4 per 1,000 women of childbearing age in 2019 to 9.6 in 2020.

Note: <sup>a</sup> All rates per 1,000 females in specified age group.

**Figure 1A-2**  
**Percent Change from 2016 to 2020 in the Number of Pregnancies by Woman's Race/Ethnicity, Arizona**



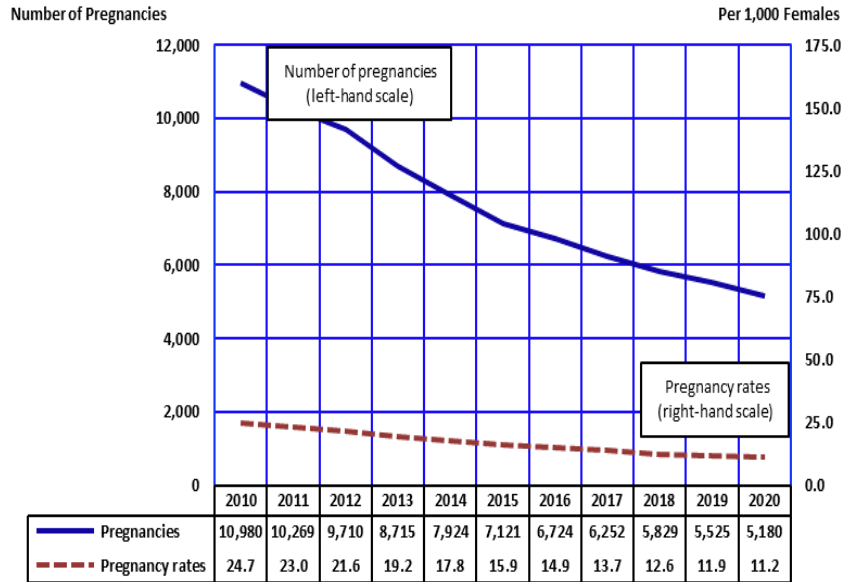
Overall, pregnancies in Arizona decreased 7.8 percent from 2016 to 2020. The changes in number of pregnancies varied by race/ethnicity. Between 2016 and 2020, while American Indian females (16.8 percent), White non-Hispanic (12.3 percent), Asian (10.6 percent), and Hispanic females (3.9 percent) experienced a decrease in number of pregnancies, Black females (12.7 percent) witnessed an increase in their pregnancy counts (**Figure 1A-2, Table 1A-1**).

1A. PREGNANCIES BY PREGNANCY OUTCOME, ETHNICITY, AND AGE GROUP

There is a difference between pregnancy rates and the absolute number of pregnancies. The teen pregnancy rate measures the proportion of teenagers becoming pregnant in a given year; in other words, the relative “risk for pregnancy” in a population “at risk.” The number of pregnancies is also determined by the size of the population “at risk:” or in this case, by the number of teenage females in the population.

The number of teen pregnancies decreased by 52.8 percent from 10,980 in 2010 to 5,180 in 2020 (Figure 1A-3). The teen pregnancy rate declined even more, by 54.7 percent, from 24.7 pregnancies per 1,000 females 10-19 years in 2010 to 11.2 per 1,000 females in 2020. The number of teenage pregnancies and the teen pregnancy rate of 2020 were the lowest recorded since at least 1980.

**Figure 1A-3**  
Trends in the Number of Pregnancies and Pregnancy Rates<sup>a</sup> among Females 19 or Younger, Arizona, 2010-2020

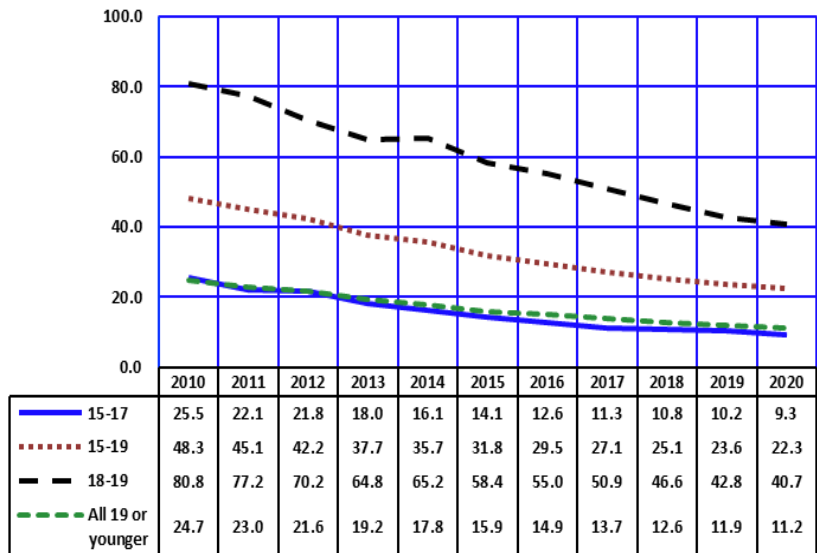


Note: <sup>a</sup> Pregnancy rate is the number of pregnancies per 1,000 females in specified age group.

The pregnancy rate for Arizona teenagers 15-19 years old in 2020 was 22.3 pregnancies per 1,000 females (Figure 1A-4, Table 5A-2), 5.5 percent lower than in 2019 and 53.8 percent lower than in 2010. The pregnancy rate for younger teenagers 15-17 years old declined by 63.5 percent (Table 1A-3) from 25.5/1,000 in 2010 to 9.3 /1,000 in 2020. The pregnancy rate for older teenagers 18-19 years old declined by 49.6 percent from 80.8/1,000 in 2010 to 40.7 /1,000 in 2020 (Table 1A-4).

County-level information about teen pregnancies and pregnancy rates is provided in Table 5A-2, Table 5A-3, and Table 5A-5. Pregnancy statistics for Arizona are not available on a sub-county level.

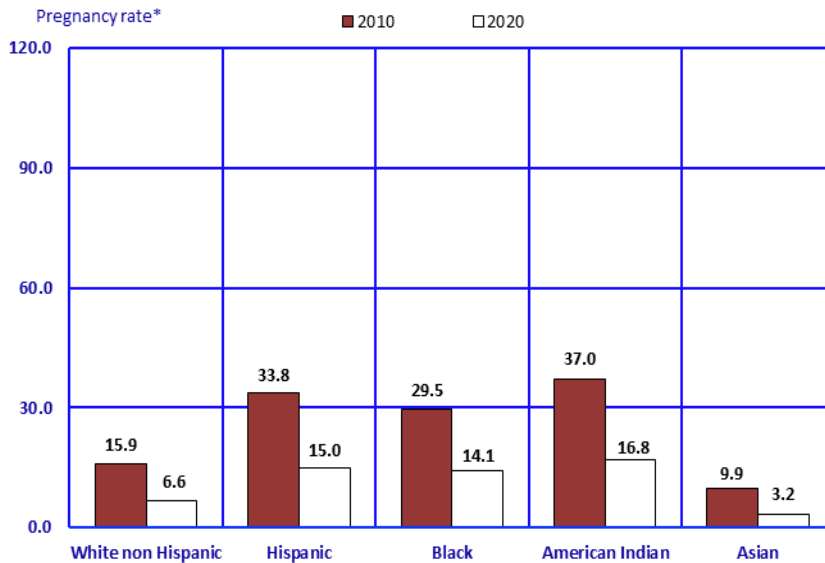
**Figure 1A-4**  
Pregnancy Rates<sup>a</sup> by Age Group and Year among Females 19 or Younger, Arizona, 2010-2020



Note: <sup>a</sup> All rates per 1,000 females in specified age group.

1A. PREGNANCIES BY PREGNANCY OUTCOME, ETHNICITY, AND AGE GROUP

**Figure 1A-5**  
**Comparison of Pregnancy Rates<sup>a</sup> by Race/Ethnicity and Year among Females 19 or Younger in Arizona, 2010 and 2020**



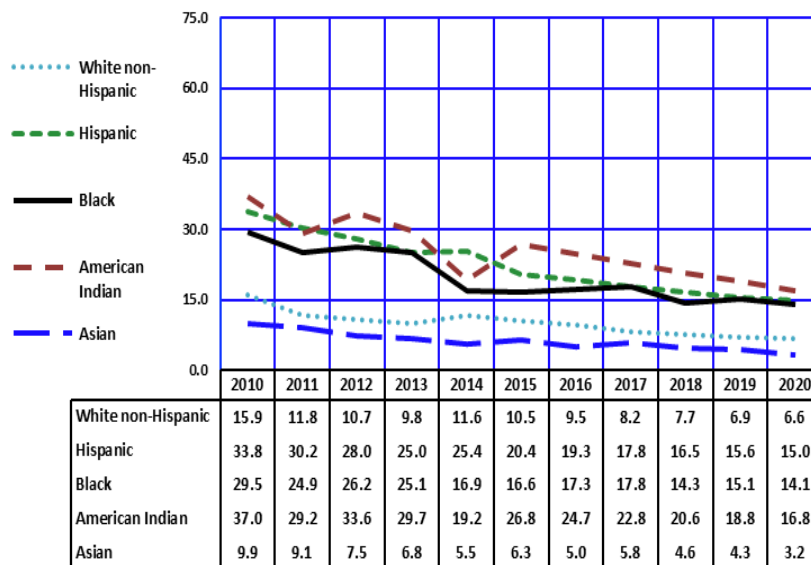
Teen pregnancy rates differ by race/ethnicity.

Between 2010 and 2020, pregnancy rates among females aged 19 and younger declined for all racial/ethnic groups (**Figure 1A-5**). The steepest decline in teenage pregnancy rates was recorded for Asian females, who experienced a 67.7 percent drop from 2010 to 2020. The White non-Hispanic teenage pregnancy rate decreased greatly also, by 58.5 percent from 15.9 in 2010 to 6.6 in 2020.

The changes in annual teen pregnancy rates from 2010 to 2020 are shown in detail below.

Note: <sup>a</sup> All rates per 1,000 females in specified age group.

**Figure 1A-6**  
**Pregnancy Rates<sup>a</sup> by Race/Ethnicity and Year among Females 19 or Younger, Arizona, 2010-2020**



The teen pregnancy rates for all racial/ethnic groups were lower in 2020 than in 2010 (**Figure 1A-6**). Compared to 2010, the teen pregnancy rate declined substantially, by more than half for all racial/ethnic groups.

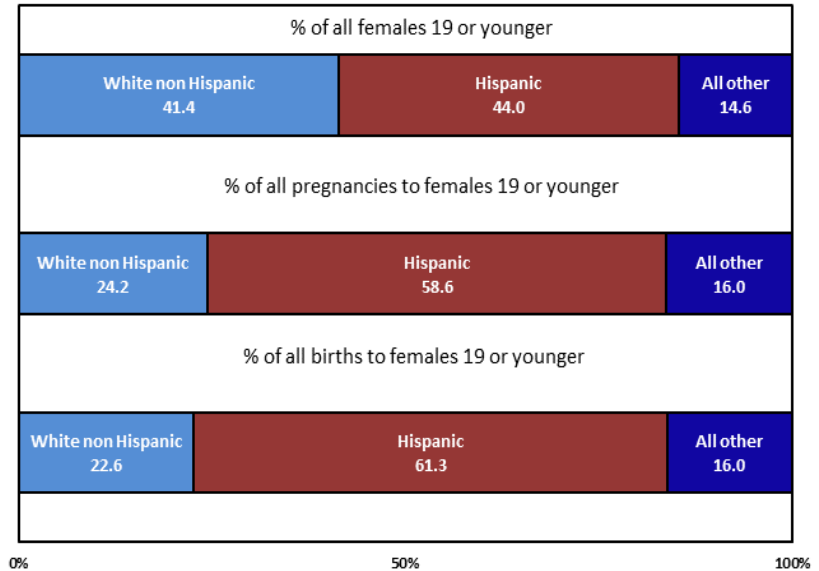
From 2019 to 2020, teenage pregnancy rates decreased for all race/ethnic groups. The decline was greater among Asian females (25.6 percent), American Indian (10.6 percent), Black (6.6 percent), White non-Hispanic (4.3 percent), and Hispanic females (3.8 percent).

Note: <sup>a</sup> All rates per 1,000 females in specified age group.

1A. PREGNANCIES BY PREGNANCY OUTCOME, ETHNICITY, AND AGE GROUP

**Figure 1A-7**  
**Proportional Contribution by Race/Ethnicity to Pregnancies and Live Births among Females 19 or Younger, Arizona, 2020**

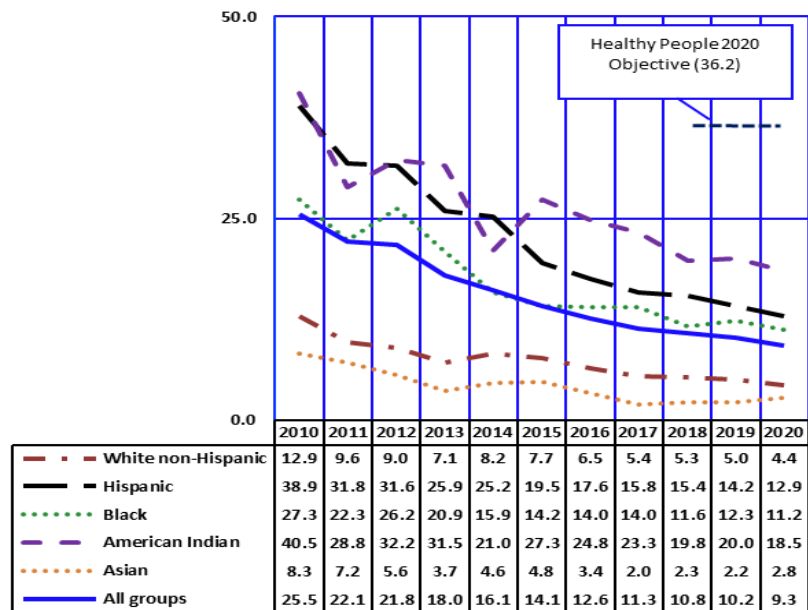
In 2020, Hispanic females accounted for approximately 44.0 percent of all females 10-19 years old in Arizona. As in the past, they accounted for a large percentage of teen pregnancies (58.6 percent) and live births (61.3 percent; **Figure 1A-7**). In contrast, White non-Hispanic females made up 41.4 percent of all females 10-19 years old in Arizona, but had a lower proportional contribution to teen pregnancies (24.2 percent) and live births (22.6 percent). Note: percentages are based on the number of pregnancies and births in **Table 1A-5**.



0% 50% 100%

**Figure 1A-8**  
**Pregnancy Rates<sup>a</sup> by Race/Ethnicity and Year among Females 15-17 Years: 2010-2020 and the "Healthy Arizona 2020" Objective**

In 2020, the pregnancy rate of 9.3 pregnancies per 1,000 adolescent females 15-17 years old in Arizona was 74.3 percent lower than the **Healthy People 2020** objective of 36.2/1,000 (**Figure 1A-8, Table 1A-3**). The 2020 pregnancy rate among Asians age 15-17 was 92.3 percent lower than the objective and among White non-Hispanics 87.8 percent lower than the objective. While lower than the 2020 objective, the 2020 pregnancy rates of American Indians, Hispanics, and Blacks were substantially higher than their White non-Hispanic and Asian counterparts.



Note: <sup>a</sup> All rates per 1,000 females in specified age group.

**TABLE 1A-1  
NUMBER OF PREGNANCIES<sup>a</sup> BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR WITH RATES<sup>b</sup>, ARIZONA, 2010-2020**

Race/ethnicity Pregnancy outcome	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	44,174	40,871	40,769	40,982	45,864	43,758	43,287	40,654	39,921	39,103	37,971	<b>59.0</b>
Births	38,777	38,294	38,670	38,220	40,097	38,180	37,762	35,685	34,909	34,118	33,101	<b>51.4</b>
Abortions	5,241	2,385	1,904	2,515	5,562	5,378	5,321	4,762	4,807	4,798	4,684	<b>7.3</b>
Fetal deaths	156	192	195	247	205	200	204	207	205	187	186	<b>0.3</b>
<b>HISPANIC OR LATINO, total:</b>	37,953	36,853	36,720	37,469	38,396	38,841	38,892	38,001	37,848	37,864	37,385	<b>71.4</b>
Births	34,333	32,398	33,146	33,075	33,715	34,264	33,874	33,191	32,995	32,575	31,859	<b>60.8</b>
Abortions	3,422	4,274	3,393	4,189	4,499	4,350	4,823	4,639	4,679	5,093	5,349	<b>10.2</b>
Fetal deaths	198	181	181	205	182	227	195	171	174	196	177	<b>0.3</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	4,843	4,538	4,867	4,955	5,551	5,485	5,688	5,838	5,926	6,295	6,410	<b>81.2</b>
Births	4,328	4,366	4,715	4,726	4,522	4,361	4,388	4,595	4,655	4,865	4,766	<b>60.4</b>
Abortions	476	145	116	189	981	1,074	1,253	1,196	1,229	1,372	1,594	<b>20.2</b>
Fetal deaths	39	27	36	40	48	50	47	47	42	58	50	<b>0.6</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	6,063	5,921	5,650	5,577	5,483	5,355	5,406	5,254	5,060	4,843	4,500	<b>69.0</b>
Births	5,815	5,830	5,569	5,476	5,145	4,984	5,030	4,866	4,709	4,462	4,087	<b>62.7</b>
Abortions	218	48	38	61	291	331	340	348	315	344	372	<b>5.7</b>
Fetal deaths	30	43	43	40	47	40	36	40	36	37	41	<b>0.6</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	3,564	3,579	3,715	3,589	3,720	3,774	3,960†	3,941	3,838	3,786	3,541	<b>52.0</b>
Births	3,293	3,505	3,625	3,466	3,169	3,235	3,350	3,327	3,271	3,163	2,968	<b>43.6</b>
Abortions	254	47	75	110	534	532	608	598	552	612	550	<b>8.1</b>
Fetal deaths	17	27	15	13	17	7	*	16	15	11	23	<b>0.3</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	98,548	99,266	99,324	98,762	99,914	98,027	98,060	94,481	93,373	92,675	90,444	<b>65.5</b>
Births	87,053	85,190	85,725	84,963	86,648	85,024	84,404	81,664	80,539	79,183	76,781	<b>55.6</b>
Abortions	11,059	13,606	13,129	13,254	12,747	12,479	13,170	12,336	12,362	13,003	13,186	<b>9.6</b>
Fetal deaths	443	470	470	545	519	524	486	481	472	489	477	<b>0.3</b>
<b>Pregnancy rate, total:</b>	<b>78.1</b>	<b>78.0</b>	<b>77.9</b>	<b>76.8</b>	<b>77.0</b>	<b>74.7</b>	<b>74.3</b>	<b>70.7</b>	<b>68.9</b>	<b>67.2</b>	<b>65.5</b>	
<b>Fertility rate<sup>e</sup></b>	<b>68.9</b>	<b>67.0</b>	<b>67.2</b>	<b>66.0</b>	<b>66.7</b>	<b>64.8</b>	<b>63.9</b>	<b>61.1</b>	<b>59.4</b>	<b>57.4</b>	<b>55.6</b>	
<b>Abortion rate</b>	<b>8.8</b>	<b>10.7</b>	<b>10.3</b>	<b>10.3</b>	<b>9.8</b>	<b>9.5</b>	<b>10.0</b>	<b>9.2</b>	<b>9.1</b>	<b>9.4</b>	<b>9.6</b>	

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> The sum of recorded live births, abortions and fetal deaths; beginning in 2003, fetal deaths are spontaneous terminations of pregnancy at 20 or more weeks of gestation (or, if the gestational period is unknown, these are the deaths of fetuses weighing 350 grams or more); <sup>b</sup> All rates per 1,000 females of childbearing age (15-44 years); <sup>c</sup> Not of Hispanic origin; <sup>d</sup> Includes other and unspecified ethnicity; <sup>e</sup> Number of births per 1,000 females of childbearing age.



**TABLE 1A-2  
NUMBER OF PREGNANCIES<sup>a</sup> BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES AGED 17  
AND YOUNGER WITH RATES<sup>b</sup>, ARIZONA, 2010-2020**

Race/ethnicity Pregnancy outcome	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>												
Births	770	600	564	448	496	462	401	327	325	298	252	<b>1.7</b>
Abortions	553	507	483	373	352	344	291	225	217	218	167	<b>1.1</b>
	214	90	71	72	140	117	107	100	104	79	83	<b>0.6</b>
<b>HISPANIC OR LATINO, total:</b>												
Births	2,106	1,731	1,728	1,443	1,292	1,144	1,055	976	953	882	802	<b>5.0</b>
Abortions	1,927	1,528	1,574	1,291	1,138	1,000	909	837	812	733	672	<b>4.2</b>
	167	196	150	142	141	131	139	136	139	144	125	<b>0.8</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>												
Births	189	170 <sup>†</sup>	174	140	145	106	111	111	94	100	91	<b>4.2</b>
Abortions	161	162	164	128	107	78	84	76	61	77	57	<b>2.6</b>
	25	*	9	9	36	27	27	34	31	22	32	<b>1.5</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>												
Births	361	310 <sup>†</sup>	260 <sup>†</sup>	260 <sup>†</sup>	217	204	191	180 <sup>†</sup>	147	147	128	<b>6.9</b>
Abortions	345	307	258	251	205	184	178	171	141	130	116	<b>6.2</b>
	15	*	*	*	7	17	13	*	6	14	9	<b>0.5</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>												
Births	30 <sup>†</sup>	30 <sup>†</sup>	20 <sup>†</sup>	20 <sup>†</sup>	25	20 <sup>†</sup>	20 <sup>†</sup>	10 <sup>†</sup>	10 <sup>†</sup>	10 <sup>†</sup>	10 <sup>†</sup>	<b>1.0</b>
Abortions	24	28	18	13	14	17	12	7	10	7	11	<b>0.8</b>
	*	*	*	*	11	*	*	*	*	*	*	<b>**</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>												
Births	3,513	3,089	2,976	2,476	2,193	1,953	1,792	1,619	1,548	1,452	1,306	<b>3.6</b>
Abortions	3,015	2,548	2,497	2,056	1,816	1,623	1,474	1,316	1,241	1,165	1,023	<b>2.8</b>
	479	527	463	402	352	312	308	296	299	280	271	<b>0.7</b>
<b>Pregnancy rate, total:</b>	<b>10.0</b>	<b>8.7</b>	<b>8.4</b>	<b>6.9</b>	<b>6.1</b>	<b>5.4</b>	<b>5.0</b>	<b>4.4</b>	<b>4.2</b>	<b>3.9</b>	<b>3.6</b>	
<b>Fertility rate<sup>e</sup></b>	<b>8.6</b>	<b>7.2</b>	<b>7.1</b>	<b>5.8</b>	<b>5.1</b>	<b>4.5</b>	<b>4.1</b>	<b>3.6</b>	<b>3.4</b>	<b>3.1</b>	<b>2.8</b>	
<b>Abortion rate</b>	<b>1.4</b>	<b>1.5</b>	<b>1.3</b>	<b>1.1</b>	<b>1.0</b>	<b>0.9</b>	<b>0.9</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.7</b>	

Notes: \* Cell suppressed due to non-zero count less than 6; \*\* Cell suppressed due to rate based on non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Fetal deaths are included in the total counts of pregnancies; <sup>b</sup> All rates per 1,000 females 10-17 years old; <sup>c</sup> Not of Hispanic origin; <sup>d</sup> Includes other and unspecified ethnicity; <sup>e</sup> Number of births per 1,000 females 10-17 years old.

**TABLE 1A-3  
NUMBER OF PREGNANCIES<sup>a</sup> BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES 15-17 YEARS OLD  
WITH RATES<sup>b</sup>, ARIZONA, 2010-2020**

Race/ethnicity Pregnancy outcome	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	742	577	549	434	481	451	382	319	310	290	246	<b>4.4</b>
Births	541	494	475	365	344	339	283	224	213	214	166	<b>2.9</b>
Abortions	198	80	65	66	133	111	96	93	93	75	78	<b>1.4</b>
<b>HISPANIC OR LATINO, total:</b>	2,021	1,653	1,670	1,390	1,262	1,103	1,015	936	925	852	767	<b>12.9</b>
Births	1,859	1,467	1,528	1,244	1,115	972	877	816	795	711	650	<b>11.0</b>
Abortions	151	179	138	136	134	118	131	117	128	136	113	<b>1.9</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	178	160 <sup>†</sup>	166	133	138	103	104	105	90	96	88	<b>11.2</b>
Births	151	152	159	122	102	77	81	71	60	73	56	<b>7.1</b>
Abortions	24	*	6	8	34	25	23	33	28	22	31	<b>3.9</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	345	300 <sup>†</sup>	250 <sup>†</sup>	250 <sup>†</sup>	210 <sup>†</sup>	193	178	170 <sup>†</sup>	140 <sup>†</sup>	136	123	<b>18.5</b>
Births	331	293	251	243	196	177	167	163	134	124	112	<b>16.9</b>
Abortions	13	*	*	*	*	13	11	*	*	12	8	<b>1.2</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	30 <sup>†</sup>	26	20 <sup>†</sup>	10 <sup>†</sup>	23	20 <sup>†</sup>	20 <sup>†</sup>	10 <sup>†</sup>	10 <sup>†</sup>	10 <sup>†</sup>	10 <sup>†</sup>	<b>2.8</b>
Births	23	26	17	11	13	17	12	6	10	7	11	<b>2.2</b>
Abortions	*	0	*	*	10	*	*	*	*	*	*	<b>**</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	3,363	2,939	2,860	2,385	2,125	1,887	1,707	1,554	1,491	1,401	1,256	<b>9.3</b>
Births	2,910	2,447	2,430	1,985	1,770	1,582	1,420	1,280	1,212	1,129	995	<b>7.4</b>
Abortions	435	478	414	382	330	287	277	267	271	265	251	<b>1.9</b>
<b>Pregnancy rate, total:</b>	<b>25.5</b>	<b>22.1</b>	<b>21.8</b>	<b>18.0</b>	<b>16.1</b>	<b>14.1</b>	<b>12.6</b>	<b>11.3</b>	<b>10.8</b>	<b>10.2</b>	<b>9.3</b>	
<b>Fertility rate<sup>e</sup></b>	<b>22.1</b>	<b>18.4</b>	<b>18.5</b>	<b>15.0</b>	<b>13.4</b>	<b>11.8</b>	<b>10.5</b>	<b>9.3</b>	<b>8.8</b>	<b>8.2</b>	<b>7.4</b>	
<b>Abortion rate</b>	<b>3.3</b>	<b>3.6</b>	<b>3.1</b>	<b>2.9</b>	<b>2.5</b>	<b>2.1</b>	<b>2.0</b>	<b>1.9</b>	<b>2.0</b>	<b>1.9</b>	<b>1.9</b>	

Notes: \* Cell suppressed due to non-zero count less than 6; \*\* Cell suppressed due to rate based on non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Fetal deaths are included in the total counts of pregnancies; <sup>b</sup> All rates per 1,000 females 15-17 years old; <sup>c</sup> Not of Hispanic origin; <sup>d</sup> Includes other and unspecified ethnicity; <sup>e</sup> Number of births per 1,000 females 15-17 years old.

**TABLE 1A-4  
NUMBER OF PREGNANCIES<sup>a</sup> BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES 18-19 YEARS OLD  
WITH RATES<sup>b</sup>, ARIZONA, 2010-2020**

Race/ethnicity Pregnancy outcome	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	2,316	1,792	1,675	1,602	1,759	1,562	1,433	1,248	1,170	1,043	1,000	<b>24.7</b>
Births	1,833	1,582	1,494	1,408	1,405	1,187	1,056	939	872	781	724	<b>17.8</b>
Abortions	480	199	167	185	348	371	369	300	292	256	276	<b>6.8</b>
<b>HISPANIC OR LATINO, total:</b>	3,812	3,566	3,357	3,175	3,078	2,764	2,668	2,537	2,377	2,308	2,234	<b>54.6</b>
Births	3,421	3,103	3,053	2,789	2,675	2,409	2,227	2,137	1,982	1,861	1,741	<b>42.5</b>
Abortions	365	442	291	367	390	336	425	390	389	437	486	<b>11.9</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	446	413	390 <sup>†</sup>	397	345	294	320	339	278	305	293	<b>52.5</b>
Births	401	399	380	379	287	234	232	253	210	203	200	<b>35.8</b>
Abortions	42	13	*	14	54	58	86	83	65	98	92	<b>16.5</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	664	690 <sup>†</sup>	640 <sup>†</sup>	530 <sup>†</sup>	417	423	388	369	347	309	263	<b>57.6</b>
Births	643	680	632	524	397	385	362	348	322	280	226	<b>49.5</b>
Abortions	21	*	*	*	18	34	25	18	25	24	30	<b>6.6</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	88	90 <sup>†</sup>	68	70 <sup>†</sup>	67	72	61	79	62	62	41	<b>11.3</b>
Births	79	83	61	66	43	46	39	48	32	33	20	<b>5.5</b>
Abortions	9	*	7	*	24	25	22	31	30	28	20	<b>5.5</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	7,467	7,180	6,734	6,239	5,731	5,168	4,932	4,633	4,281	4,073	3,874	<b>40.7</b>
Births	6,401	5,887	5,620	5,166	4,807	4,261	3,916	3,725	3,418	3,158	2,911	<b>30.6</b>
Abortions	1,033	1,258	1,077	1,039	897	877	989	883	847	889	947	<b>9.9</b>
<b>Pregnancy rate, total:</b>	<b>80.8</b>	<b>77.2</b>	<b>70.2</b>	<b>64.8</b>	<b>65.2</b>	<b>58.4</b>	<b>55.0</b>	<b>50.9</b>	<b>46.6</b>	<b>42.8</b>	<b>40.7</b>	
<b>Fertility rate<sup>e</sup></b>	<b>69.2</b>	<b>63.3</b>	<b>58.6</b>	<b>53.6</b>	<b>54.7</b>	<b>48.2</b>	<b>43.7</b>	<b>41.0</b>	<b>37.2</b>	<b>33.2</b>	<b>30.6</b>	
<b>Abortion rate</b>	<b>11.2</b>	<b>13.5</b>	<b>11.2</b>	<b>10.8</b>	<b>10.2</b>	<b>9.9</b>	<b>11.0</b>	<b>9.7</b>	<b>9.2</b>	<b>9.3</b>	<b>9.9</b>	

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Fetal deaths are included in the total count of pregnancies; <sup>b</sup> All rates per 1,000 females 18-19 years old; <sup>c</sup> Not of Hispanic origin; <sup>d</sup> Includes other and unspecified ethnicity; <sup>e</sup> Number of births per 1,000 females 18-19 years old.

**TABLE 1A-5  
NUMBER OF PREGNANCIES<sup>a</sup> BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES 19 AND YOUNGER,  
WITH RATES<sup>b</sup>, ARIZONA, 2010-2020**

Race/ethnicity Pregnancy outcome	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	3,086	2,392	2,239	2,050	2,255	2,024	1,834	1,575	1,495	1,341	1,252	<b>6.6</b>
Births	2,386	2,089	1,977	1,781	1,757	1,531	1,347	1,164	1,089	999	891	<b>4.7</b>
Abortions	694	289	238	257	488	488	476	400	396	335	359	<b>1.9</b>
<b>HISPANIC OR LATINO, total:</b>	5,918	5,297	5,085	4,618	4,370	3,908	3,723	3,513	3,330	3,190	3,036	<b>15.0</b>
Births	5,348	4,631	4,627	4,080	3,813	3,409	3,136	2,974	2,794	2,594	2,413	<b>11.9</b>
Abortions	532	638	441	509	531	467	564	526	528	581	611	<b>3.0</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	635	580	562	537	490	400	431	450	372	405	384	<b>14.1</b>
Births	562	561	544	507	394	312	316	329	271	280	257	<b>9.5</b>
Abortions	67	17	14	23	90	85	113	117	96	120	124	<b>4.6</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	1,025	1,000 <sup>†</sup>	900 <sup>†</sup>	787	634	627	579	546	495	453	391	<b>16.8</b>
Births	988	987	890	775	602	569	540	519	463	410	342	<b>14.7</b>
Abortions	36	*	*	8	25	51	38	23	31	38	39	<b>1.7</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	117	120 <sup>†</sup>	88	80 <sup>†</sup>	92	92	77	89	74	73	55	<b>3.2</b>
Births	103	111	79	79	57	63	51	55	42	40	31	<b>1.8</b>
Abortions	14	*	9	*	35	28	26	34	32	32	23	<b>1.4</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	10,980	10,269	9,710	8,715	7,924	7,121	6,724	6,252	5,829	5,525	5,180	<b>11.2</b>
Births	9,416	8,435	8,117	7,222	6,623	5,884	5,390	5,041	4,659	4,323	3,934	<b>8.5</b>
Abortions	1,512	1,785	1,539	1,441	1,249	1,189	1,297	1,179	1,146	1,169	1,218	<b>2.6</b>
<b>Pregnancy rate, total:</b>	<b>24.7</b>	<b>23.0</b>	<b>21.6</b>	<b>19.2</b>	<b>17.8</b>	<b>15.9</b>	<b>14.9</b>	<b>13.7</b>	<b>12.6</b>	<b>11.9</b>	<b>11.2</b>	
<b>Fertility rate<sup>e</sup></b>	<b>21.2</b>	<b>18.9</b>	<b>18.0</b>	<b>15.9</b>	<b>14.9</b>	<b>13.1</b>	<b>12.0</b>	<b>11.1</b>	<b>10.1</b>	<b>9.3</b>	<b>8.5</b>	
<b>Abortion rate</b>	<b>3.4</b>	<b>4.0</b>	<b>3.4</b>	<b>3.2</b>	<b>2.8</b>	<b>2.7</b>	<b>2.9</b>	<b>2.6</b>	<b>2.5</b>	<b>2.5</b>	<b>2.6</b>	

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Fetal deaths are included in the total counts of pregnancies; <sup>b</sup> All rates per 1,000 females 19 or younger; <sup>c</sup> Not of Hispanic origin; <sup>d</sup> Includes other and unspecified ethnicity; <sup>e</sup> Number of births per 1,000 females 19 or younger.

**TABLE 1A-6  
NUMBER OF PREGNANCIES<sup>a</sup> BY PREGNANCY OUTCOME, AGE GROUP, AND RACE/ETHNICITY, ARIZONA, 2020  
PREGNANCIES BY OUTCOME:**

	All ages	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un- known
<b>All groups</b>											
Total pregnancies	90,444	50†	1,256	3,874	20,138	26,891	23,564	11,792	2,672	210†	0†
Births	76,781	28	995	2,911	16,020	23,135	20,947	10,347	2,244	152	*
Abortions <sup>b</sup>	13,186	20	251	947	4,011	3,633	2,501	1,359	414	50	0
Fetal deaths	480†	*	10	16	107	123	116	86	14	*	0
<b>White non Hispanic</b>											
Total pregnancies	37,971	10†	250†	1,000	6,745	11,253	11,442	5,893	1,273	110†	0†
Births	33,100†	*	166	724	5,397	9,911	10,439	5,285	1,087	89	*
Abortions <sup>b</sup>	4,680†	*	78	276	1,308	1,291	955	572	178	21	0
Fetal deaths	190†	0	*	0	40	51	48	36	8	*	0
<b>Hispanic or Latino</b>											
Total pregnancies	37,385	40†	770†	2,234	10,080	11,345	8,140	3,825	900†	55	0
Births	31,859	22	650	1,741	8,199	9,874	7,201	3,364	770	38	0
Abortions <sup>b</sup>	5,349	12	113	486	1,832	1,424	899	437	129	17	0
Fetal deaths	180†	*	*	7	49	47	40	24	*	0	0
<b>Black or African American</b>											
Total pregnancies	6,410†	0†	90†	290†	1,552	1,937	1,551	783	180†	20†	0
Births	4,770†	*	56	200	1,086	1,429	1,206	626	145	17	0
Abortions <sup>b</sup>	1,590†	*	31	92	455	497	333	145	36	*	0
Fetal deaths	50†	*	*	*	11	11	12	12	*	0	0
<b>American Indian or Alaska Native</b>											
Total pregnancies	4,500†	10†	120†	263	1,200†	1,257	1,066	476	108	0†	0
Births	4,090†	*	112	226	1,092	1,155	978	427	91	*	0
Abortions <sup>b</sup>	370†	*	8	30	102	95	78	41	17	0	0
Fetal deaths	40†	0	*	7	*	7	10	8	0	*	0
<b>Asian or Pacific Islander</b>											
Total pregnancies	3,541	0	10†	40†	360†	913	1,264	756	185	10†	0
Births	2,970†	0	11	20	246	766	1,123	645	151	6	0
Abortions <sup>b</sup>	550	0	*	20	108	140	135	105	34	*	0
Fetal deaths	20†	0	0	*	*	7	6	6	0	*	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> The sum of recorded live births, spontaneous fetal losses and abortions; <sup>b</sup> Abortions include unknown or multiple race.

**TABLE 1A-7  
PREGNANCY RATES<sup>a</sup> AND NUMBER OF LIVE BIRTHS, FETAL DEATHS, AND  
ABORTIONS TO TEENS BY INDIVIDUAL AGE, ARIZONA, 2020**

Age	Population	PREGNANCIES BY OUTCOME			TOTAL PREGNANCIES	
		Live births	Abortions	Spontaneous fetal losses	Number	Rate
<b>10</b>	44,719	0	*	0	*	**
<b>11</b>	46,782	0	0	0	0	<b>0.0</b>
<b>12</b>	46,848	0	*	0	*	**
<b>13</b>	46,270	6	*	*	8	<b>0.2</b>
<b>14</b>	45,988	22	16	*	39	<b>0.8</b>
<b>10-14</b>	230,607	28	20	*	50	<b>0.2</b>
<b>15</b>	45,733	110	45	0	155	<b>3.4</b>
<b>16</b>	44,352	312	71	*	385	<b>8.7</b>
<b>17</b>	44,982	573	135	8	716	<b>15.9</b>
<b>15-17</b>	135,067	995	251	10	1,256	<b>9.3</b>
<b>18</b>	47,454	1,050	361	*	1,416	<b>29.8</b>
<b>19</b>	47,822	1,861	586	11	2,458	<b>51.4</b>
<b>18-19</b>	95,276	2,911	947	16	3,874	<b>40.7</b>
<b>Total 10-19</b>	460,950	3,934	1,220†	30†	5,180†	<b>11.2</b>

Notes: \* Cell suppressed due to non-zero count less than 6; \*\* Cell suppressed due to rate based on non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Rates per 1,000 female population in specific group.



**1B.**

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

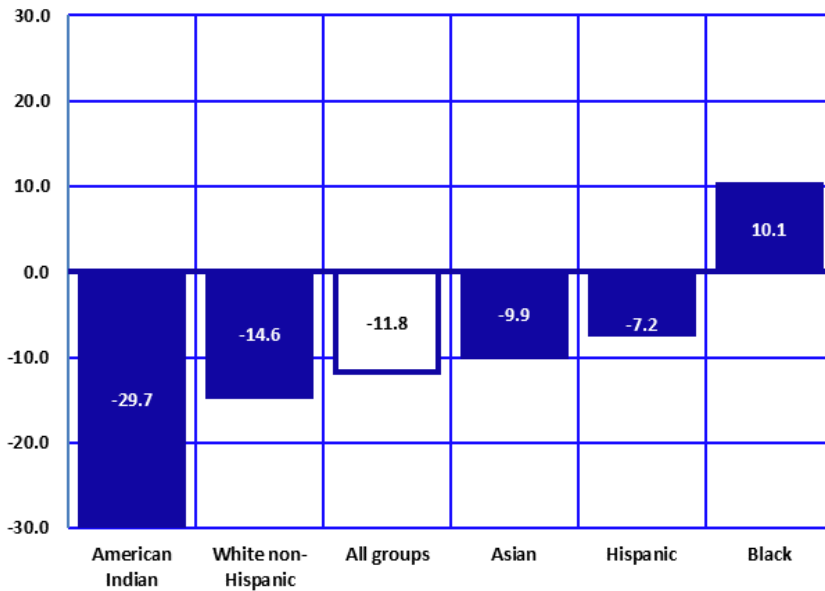
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From 2019 to 2020, the number of residents' births decreased by 3 percent from 79,183 (2019) to 76,781 (2020), representing a reduction of 2,402 births.

There were striking differences in how the number of births changed from 2010 to 2020 by mother's race/ethnicity. Compared to 2010, the number of births for all combined racial/ethnic groups was 11.8 percent lower in 2020. Taken separately, while the number of births rose by 10.1 percent for Black or African American mothers between 2010 and 2020, the remaining racial/ethnic groups witnessed a decline in their birth counts, with American Indian women experiencing most of the decrease (29.7) during the period of time under consideration (**Figure 1B-1**).

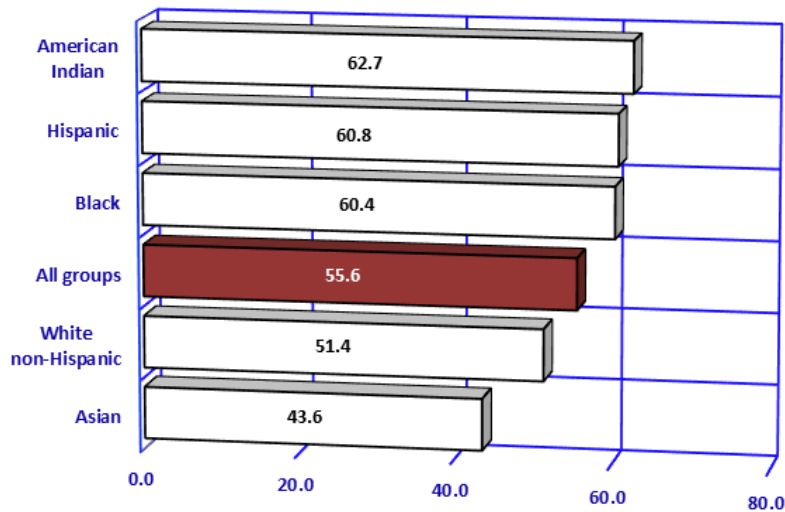
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-1**  
**Percent Change from 2010 to 2020 in the Number of Resident Live Births by**  
**Mother's Race/Ethnicity, Arizona**



From 2010 to 2020, the number of resident live births declined by 11.8 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 (29.7 percent) and Hispanics or Latinos (7.2 percent).

**Figure 1B-2**  
**General Fertility Rates<sup>a</sup> by Race/Ethnicity among Females of all Ages,**  
**Arizona, 2020**



From among 1,379,947 women of childbearing age (15-44 years), 76,599 (99.8 percent) of 76,781 total births in 2020 were from mothers in this age group. The *general fertility rate* (the number of births per 1,000 women 15-44 years old GFR) was the highest for American Indian females followed by Hispanic and Black 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**.

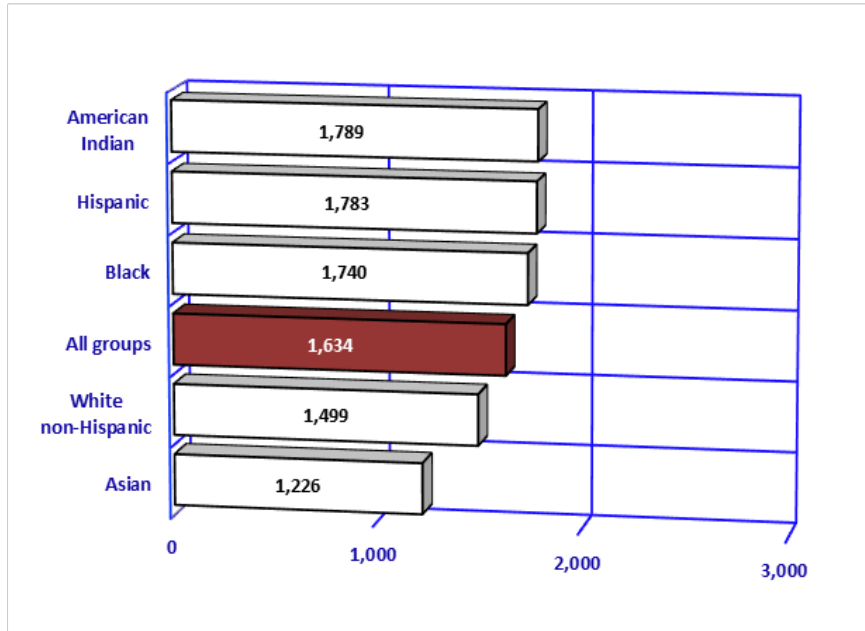
Note: <sup>a</sup> Number of births per 1,000 females 15-44 years old in specified group.



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

**Figure 1B-3**  
Total Fertility Rates<sup>a</sup> by Race/Ethnicity, Arizona, 2020

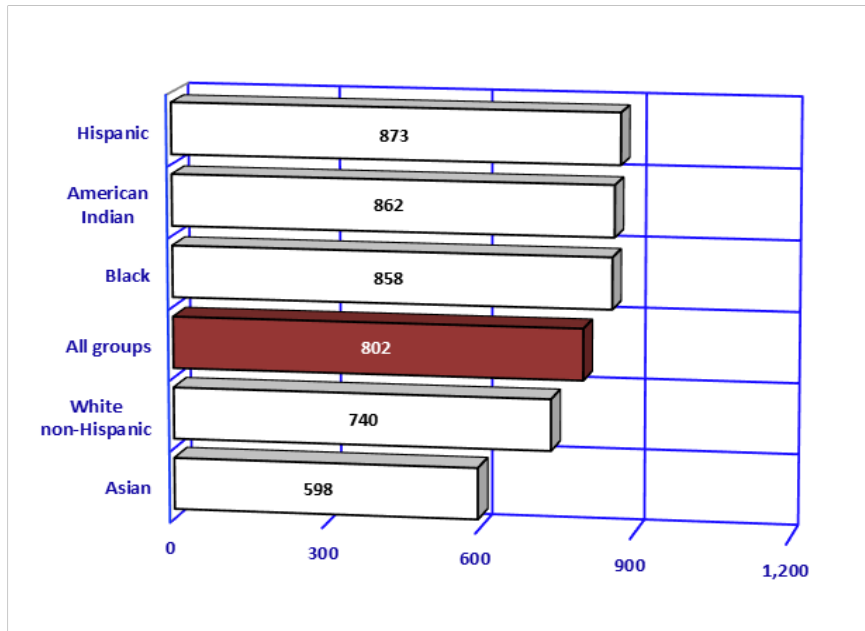
The *total fertility rate* (TFR) indicates the average number of births to a hypothetical cohort of 1,000 women, if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. From 2003 to 2008, Arizona's TFRs always exceeded the rate of "replacement" (2,110 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 1,634 in 2020 (**Table 1B-1**). In 2020, The TFR for American Indian women (1,789) was the highest of all racial/ethnic groups and was still 15.2 percent lower than the generation replacement rate. The rate for Asian women (1,226), the lowest of all groups, was 42.0 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 1,634 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 2020, they would have a total of 1,634 children (or 1.6 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, 2020

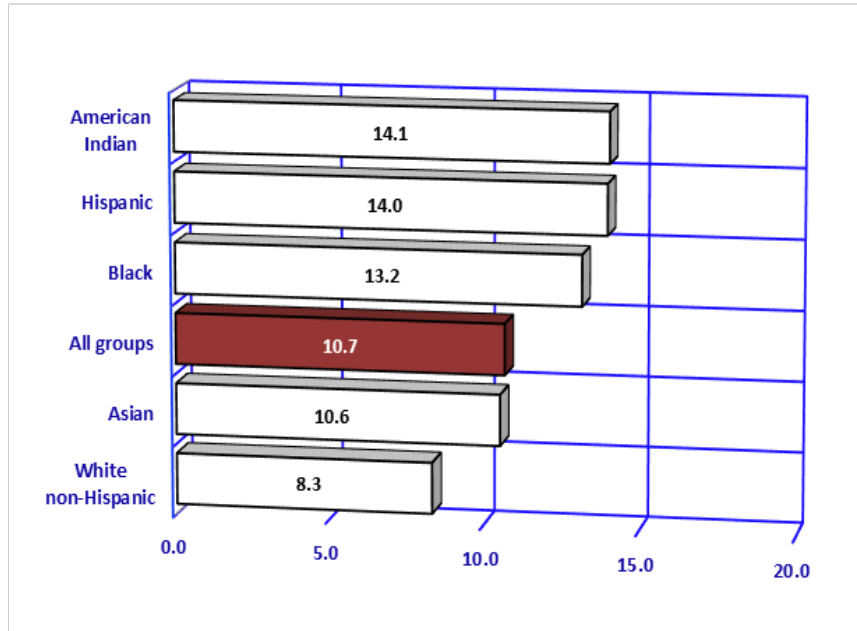
Another measure used to summarize reproduction patterns is the *gross reproduction rate* (GRR). It represents the average number of daughters born to a hypothetical cohort of 1,000 women if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. This 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 2020, the gross reproduction rates in Arizona ranged from 598 for Asian women to 873 for Hispanic 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.

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

**Figure 1B-5**  
Birth Rates<sup>a</sup> by Race/Ethnicity, Arizona, 2020



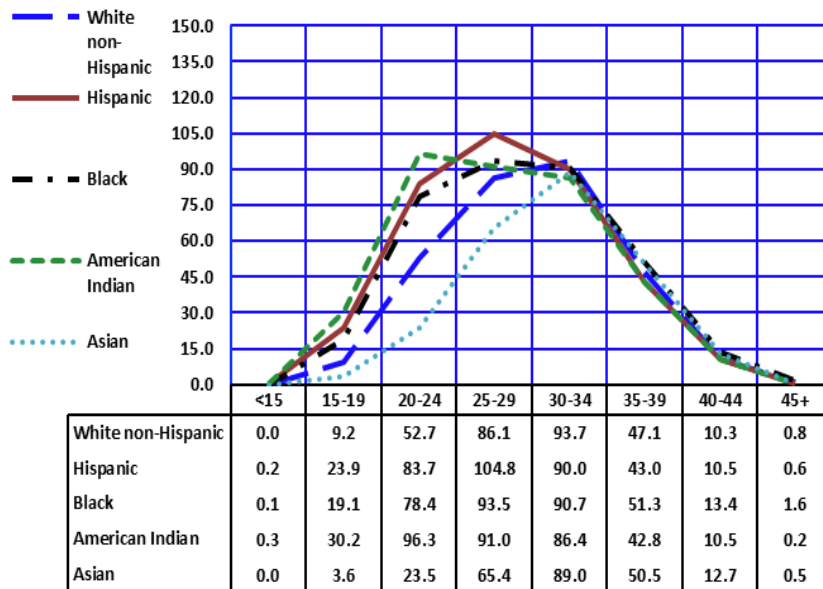
The crude birth rate, often simply called the birth rate, relates the number of births to the total population in a specified group. The birth rate is expressed as the total number of births per 1,000 persons, without regard to the age or sex distribution of the population.

The birth rate for Arizona decreased from 11.4 in 2018 to 11.0 in 2019 and 10.7 in 2020.

In 2020, the crude birth rates by mother's race/ethnicity ranged from 8.3 births per 1,000 White non-Hispanics to 14.1 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, 2020



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 2020, 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 were highest among White non-Hispanic women and those between ages 35-39 were the highest among Black women. In general, Hispanic, Black, and American Indian women tend to give birth at younger ages (less than 25 years of age) than Asian and non-Hispanic White women.

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

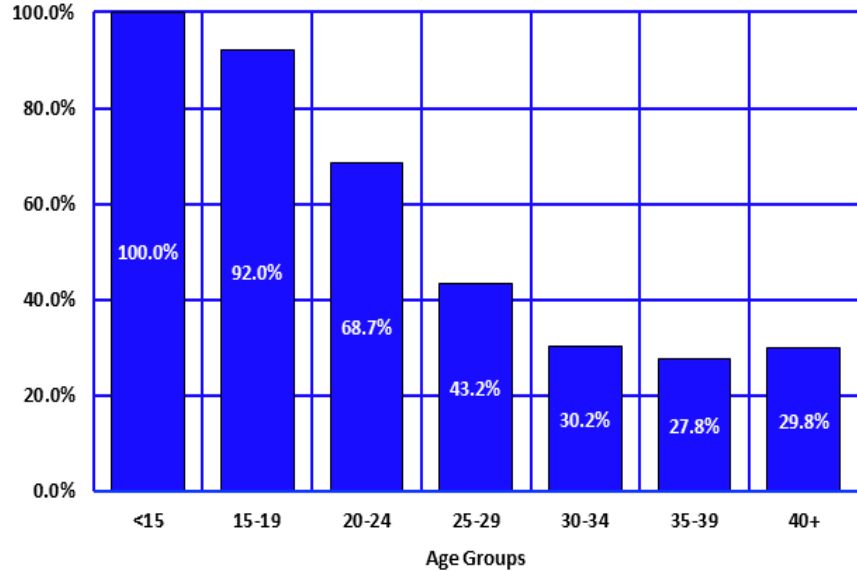
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-7**  
Percent of Births to Unmarried Mothers by Age Group, Arizona, 2020

Unmarried mothers have accounted for a large portion of births with more than 4 of every 10 births in Arizona. In 2020, 34,527 infants were born to unmarried mothers compared to 38,871 in 2010. 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.

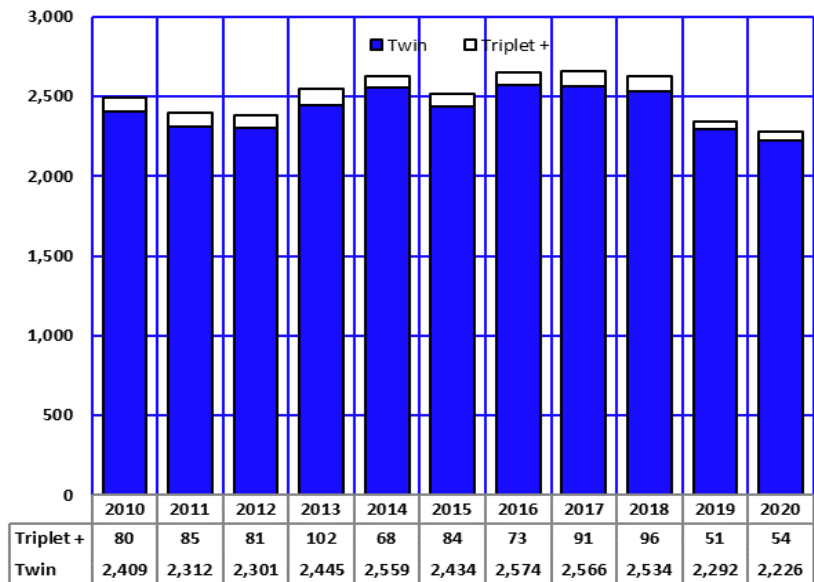
A decade ago, the proportion of births among unmarried women aged 20-24 years was 62.9 percent, while in 2020, approximately 68.7 percent of mothers 20-24 years old were unmarried (**Figure 1B-7**).

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**).



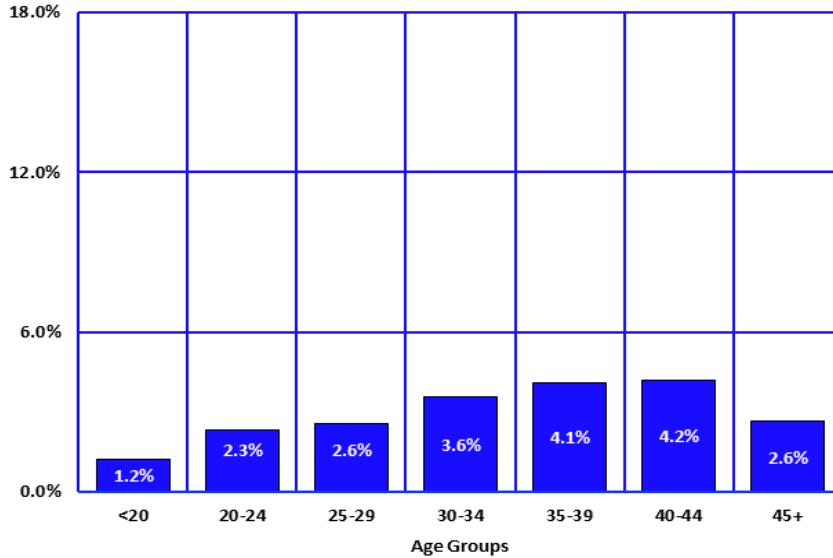
**Figure 1B-8**  
Number of Births in Twin and Triplet+ Deliveries by Year, Arizona, 2010-2020

The number of multiple birth events in Arizona declined from 2,489 in 2010 to 2,280 in 2020 (**Figure 1B-8**). The number of babies born in twin deliveries decreased from 2,409 in 2010 to 2,226 in 2020 (**Figure 1B-8**). The number of triplets and higher order multiple birth events decreased by 32.5 percent from 80 in 2010 to 54 in 2020.



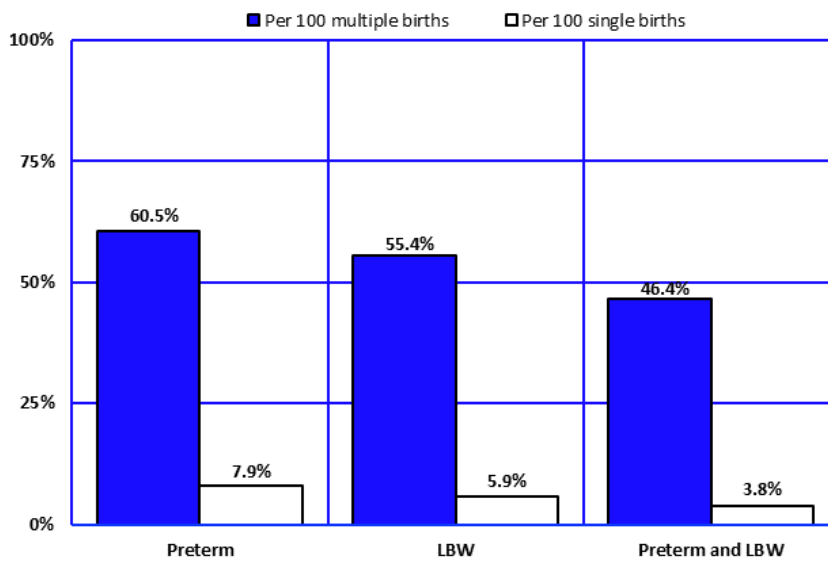
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-9**  
Multiple Births by Mother's Age Group, Arizona, 2020



In 2020, the proportion of multiple births gradually increased with maternal age among mothers below 45 years of age and sharply decreased among mothers age 45 years and older. Among women aged 45 years and older, 2.6 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 10.2 percent in 2019 to 2.6 percent in 2020. 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, 2020



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 2020, infants born in multiple deliveries were 7.7 times more likely (60.5 vs. 7.9 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 2020, infants born at very low birth weight (<1,500 grams) accounted for 48.7 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.

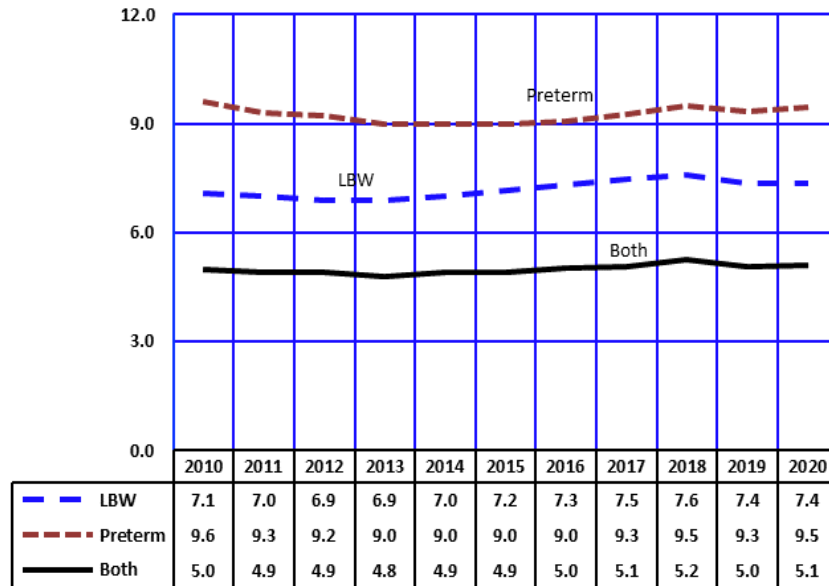
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-11**  
Preterm<sup>a</sup> and Low Birthweight (LBW)<sup>b</sup> Births by Year, Arizona, 2010-2020

The proportion of preterm births reached 9.5 percent of all births in 2020, a slight increase from 9.3 percent in 2019.

The proportion of infants born prematurely and who were also low birth weight (LBW; at less than 2,500 grams) slightly increased from 5.0/100 births in 2019 to 5.1/100 births in 2020 (**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**).

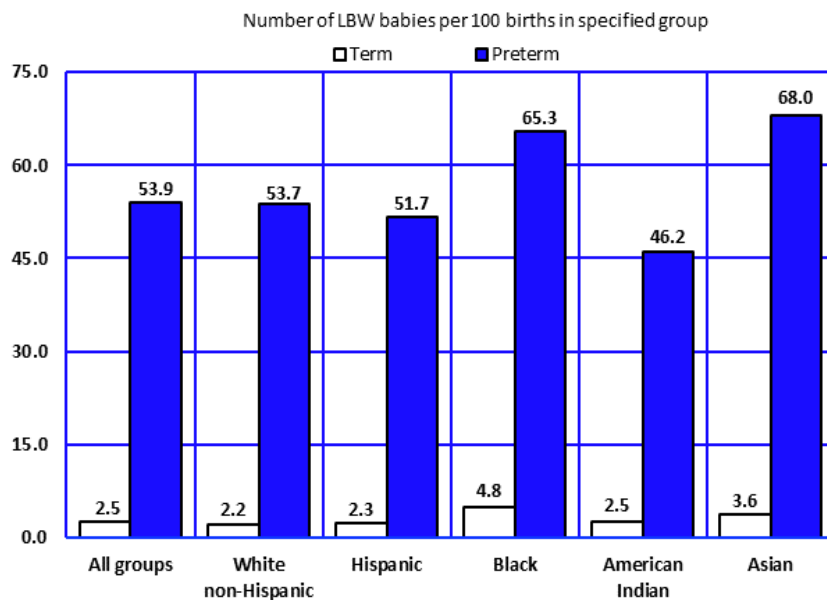


Notes: <sup>a</sup> Preterm: < 37 weeks of gestation; <sup>b</sup> Low birthweight (less than 2,500 grams or 5 pounds 8 ounces); In this report, the primary measure used to determine the gestational age is the clinical estimate of gestation as reported on the birth certificate.

**Figure 1B-12**  
Low-Birthweight (LBW) Births by Length of Gestation and Mother's Race/Ethnicity, Arizona, 2020

In 2020, 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 2010 (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 (53.9 vs. 2.5 percent) more likely to be LBW than infants born at term (**Figure 1B-12**). Approximately, seven out of ten (69.3 percent) LBW babies born in 2020 were preterm (**Table 1B-3**).

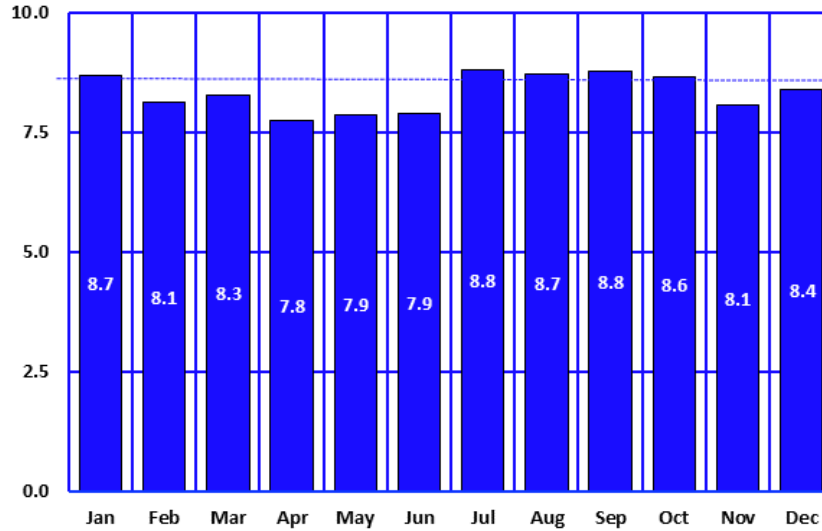
County-level data for LBW newborns are available in (**Tables 5B-16** – **5B-23**). Community level information is in (**Table 9A**).



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).

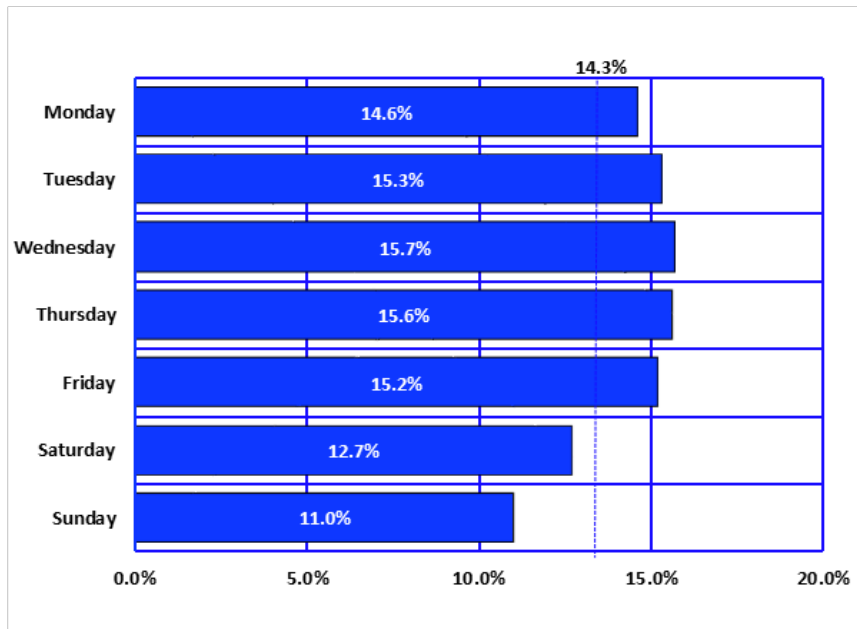
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-13**  
Percent of Resident Births by Month, Arizona, 2020



In 2020, monthly births in Arizona averaged around 8.3 percent. (Figure 1B-13). In 2020, the seasonal fluctuation of the frequency of births is marked by 3 month raised peak in July (8.8 percent), August (8.7 percent), and September (8.8 percent) compared to other months throughout the year.

**Figure 1B-14**  
Percent of Resident Births by Day of the Week, Arizona, 2020



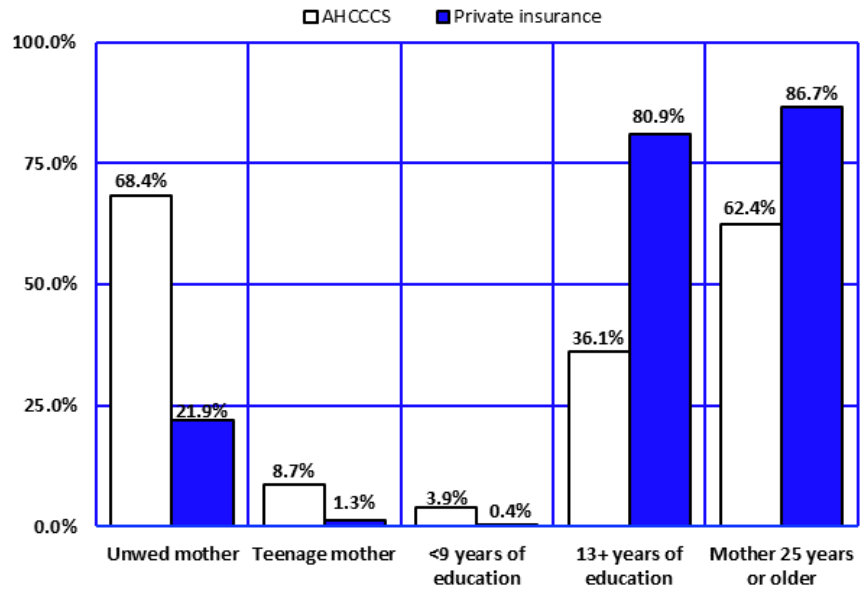
On average, 210 infants were born per day in 2020 to Arizona residents. The daily percent of resident live births in 2020 was substantially lower on weekends than on weekdays (Figure 1B-14). Many studies suggest that weekly, daily, and hourly variations observed in hospitals and clinics are not due to 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 2020, only 8.8 percent of cesarean deliveries occurred on Sundays, compared to 16.6 percent on Mondays. The average rate of induction of labor was substantially lower on weekend days (12 percent) than it was on week days (15.2 percent).

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

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 2.2 times more likely to have some college education or higher (13+ years of education) than were AHCCCS mothers (80.9 and 36.1 percent respectively, **Figure 1B-15**). Mothers recipient AHCCCS were more likely to be unmarried (68.4%) 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.

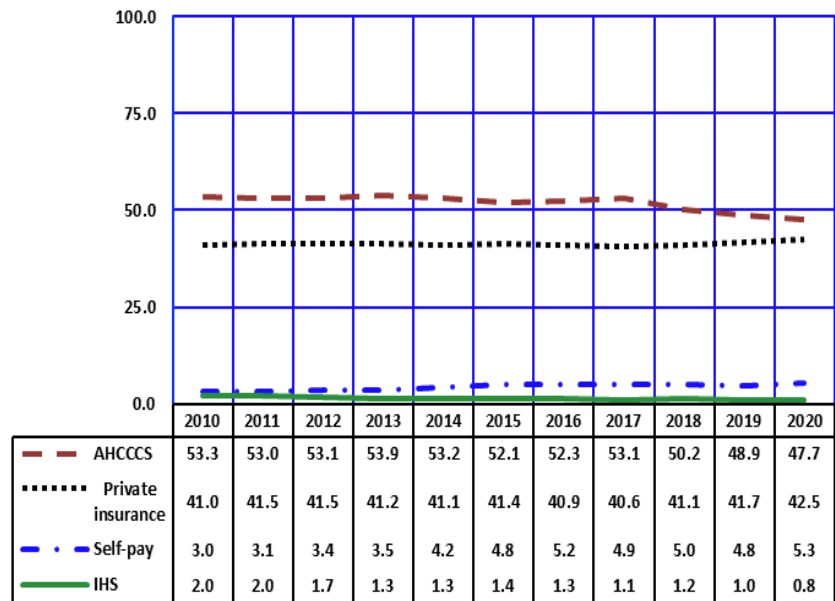
**Figure 1B-15**  
Comparison of Selected Sociodemographic Characteristics by the Payer for Delivery, Arizona, 2020



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

**Figure 1B-16**  
Births by Payer and Year, Arizona, 2010-2020

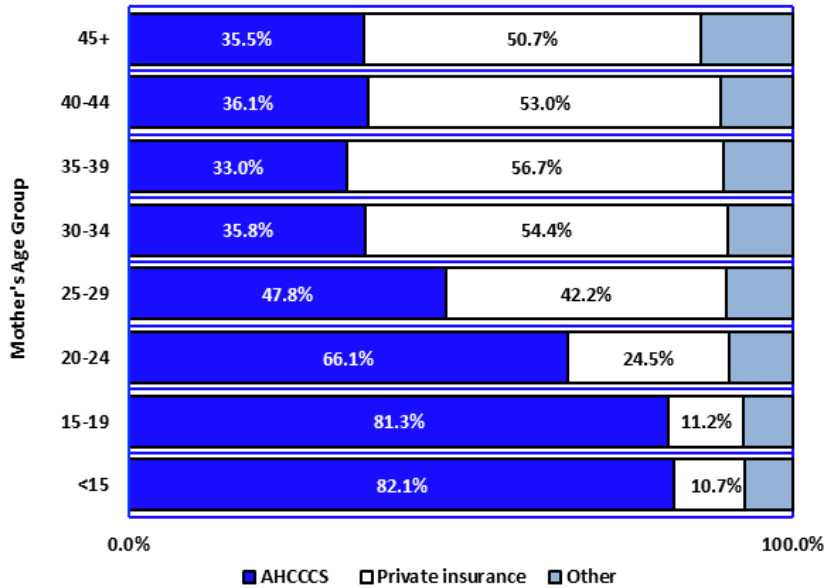
Since 2002, the share of resident births paid for by AHCCCS has exceeded the share paid by private health insurance (**Figure 1B-16**). In 2010, private insurance funded 41.0 percent of births and AHCCCS paid for 53.3 percent of births. The share of AHCCCS funded births varied little from 2010 to 2020. The share of private health insurance also remained stable during this time period. In 2020, the proportion of births paid by AHCCCS decreased 10.5 percent, while the percent of births paid by a private insurance increased 3.7 percent. In 2020, 5.3 percent of births were paid by mothers themselves and/or their families (i.e. self-pay). The Indian Health Service (IHS) paid for 0.8 percent of the births in 2020, a slight decrease from last year (**Table 1B-25 and Table 1B-27**).



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

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

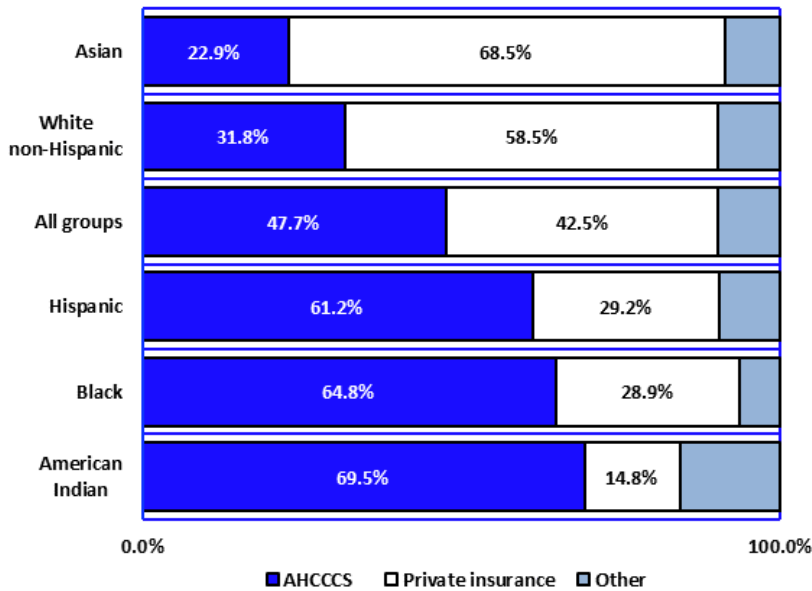
**Figure 1B-17**  
**Payer for Delivery by Mother's Age Group, Arizona, 2020**



In 2020, 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 2020 (based on data in **Table 1B-28**).

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, 2020**



In 2020, private insurance was the largest payer for deliveries of Asian (68.5 percent) and White non-Hispanic infants (58.5 percent). In contrast, the Arizona Health Care Cost Containment System was the largest payer for deliveries of American Indian (69.5 percent), Black or African American (64.8 percent), and Hispanic or Latino infants (61.2 percent).

The Indian Health Service as a payer accounted for 12.7 percent of deliveries of American Indian or Alaska Native infants in the State (**Figure 1B-18**, based on data in **Table 1B-27**).

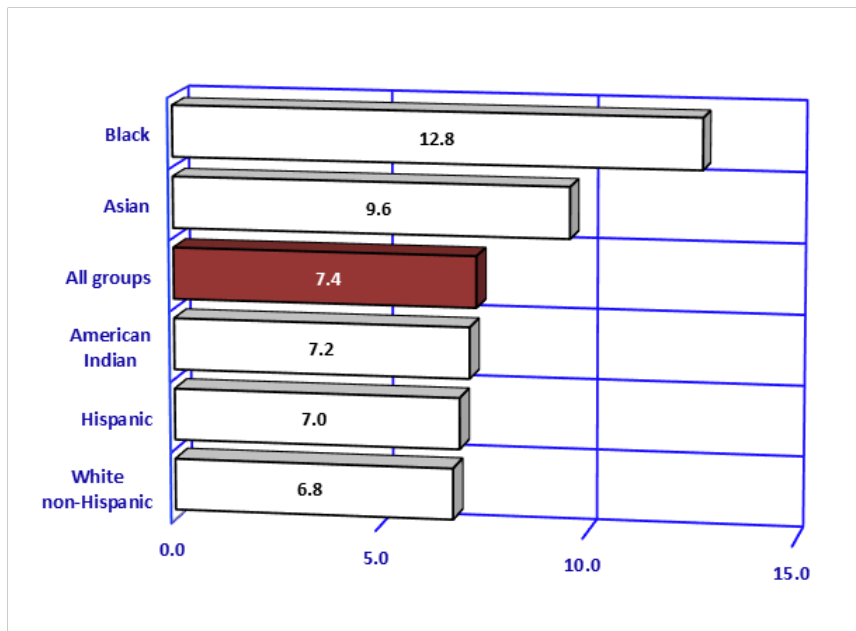
Hispanics or Latinos accounted for 53.2 percent of the 36,620 deliveries paid for by AHCCCS. About 28.8 percent of all AHCCCS births were to White non-Hispanic women (based on data in **Table 1B-27**).

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



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

**Figure 1B-19**  
**Percent of Low Birthweight<sup>a</sup> by Mother's Race/Ethnicity,**  
**Arizona Residents, 2020**

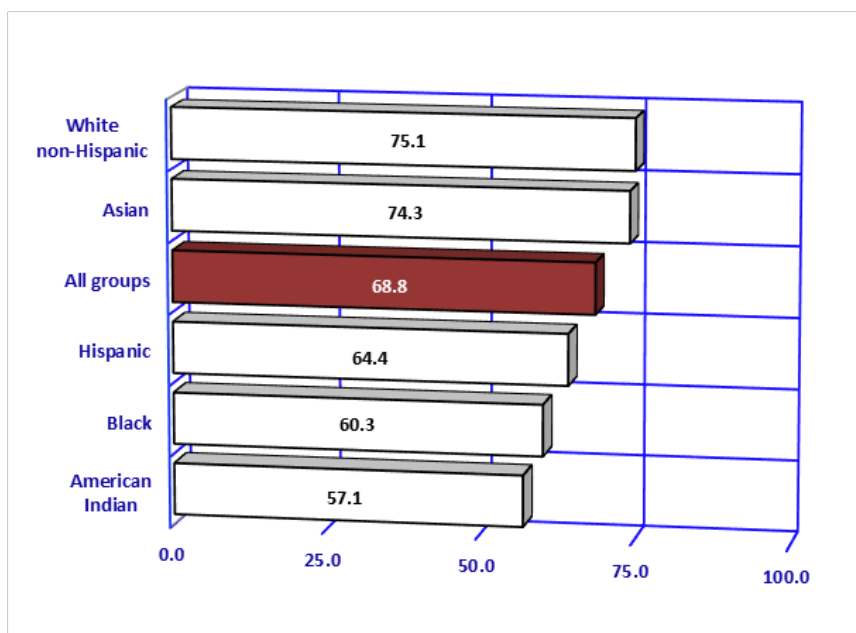


Note: <sup>a</sup> Low birthweight is less than 2,500 grams (less than 5 pounds 8 ounces).

In 2020, 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 (12.8 percent), Asian or Pacific Islander mothers (9.6 percent), and American Indian mothers (7.2 percent). Newborns of Hispanic or Latino and White non-Hispanic had the lowest LBW rates among all racial/ethnic groups (Figure 1B-19, based on data in **Table 1B-25**).

**Figure 1B-20**  
**First Trimester Prenatal Care by Mother's Race/Ethnicity,**  
**Arizona Residents, 2020**

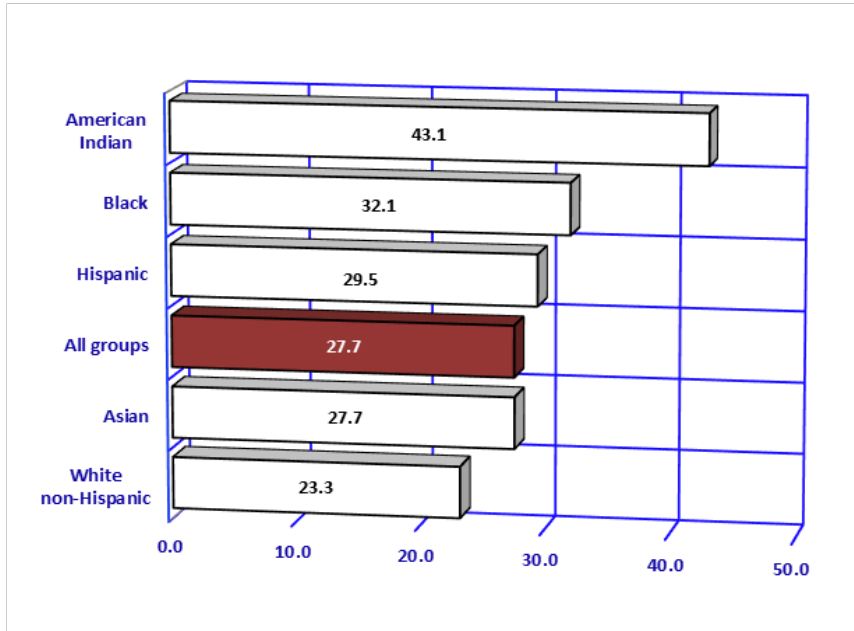


The percent of Arizona mothers giving birth who received early prenatal care (i.e., in the first trimester) has decreased from 2010 (81.9 percent) to 2020 (68.8 percent; **Table 1B-2**). It should be noted that with the adoption of the 2003 revised U.S. birth certificate in 2014, trend analysis of the 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 from 2014-2020 may be attributable for the most part to differences in reporting. Starting in 2014, prenatal care beginning in the first trimester has largely been unchanged varying only from a low of 66.0 percent in 2014 to a high of 68.9 percent in 2016.

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**).

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

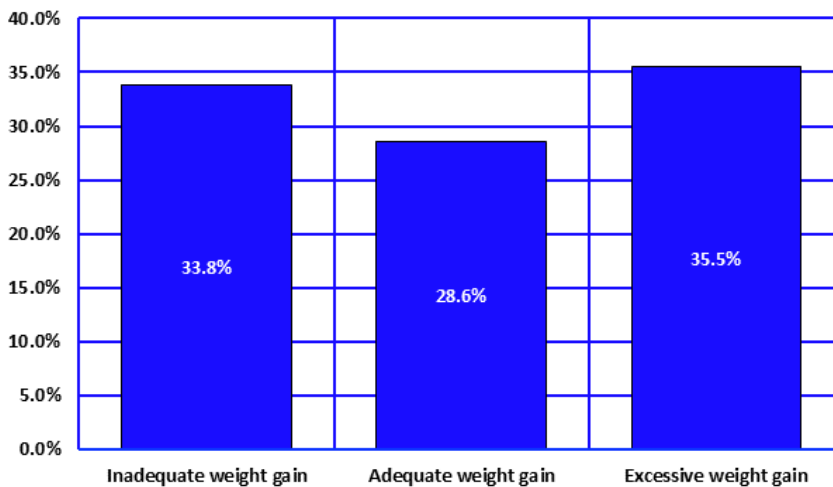
**Figure 1B-21**  
**Maternal Medical Risk Factors<sup>a</sup> by Mother's Race/Ethnicity, Arizona, 2020**



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 2020, with exception to White non-Hispanic and Asian mothers, all the mothers from the remaining race/ethnic groups recorded higher proportions of medical risk factors compared to all groups (**Figure 1B-21**).

**Figure 1B-22**  
**Low-Birthweight by Maternal Weight Gain during Pregnancy, Arizona, 2020**



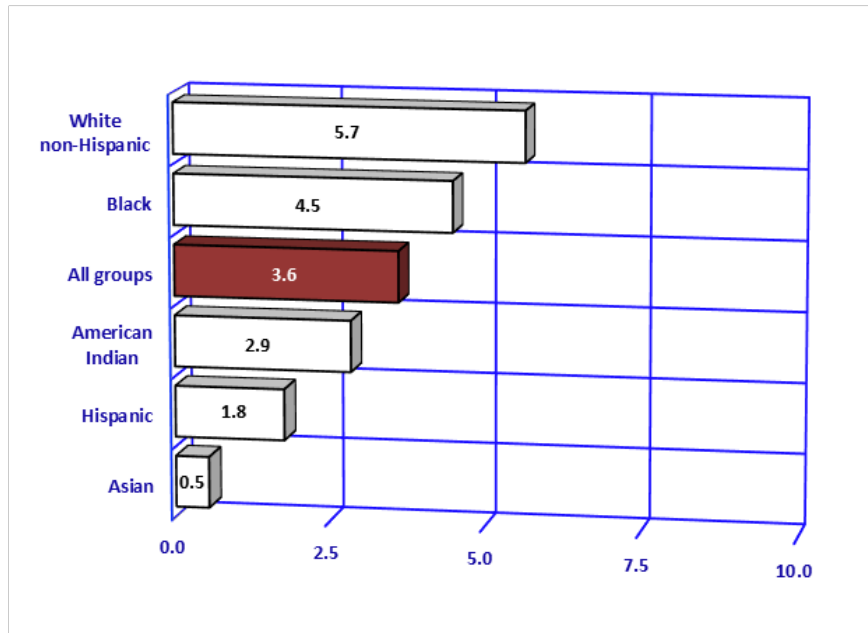
Maternal weight gain during pregnancy is a determinant of both fetal growth and birthweight. Insufficient or excessive weight gain during pregnancy can negatively influence outcomes of both mother and infant. Based on the [Institute of Medicine](#) guidelines, women who are of normal weight (body mass 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 2020, the proportion of newborns with low birthweight was the lowest among mothers who gained the recommended amount of weight during pregnancy (**Figure 1B-22**).

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

**Figure 1B-23**  
Self-reported Tobacco Use during Pregnancy<sup>a</sup> by Race/Ethnicity, Arizona, 2020

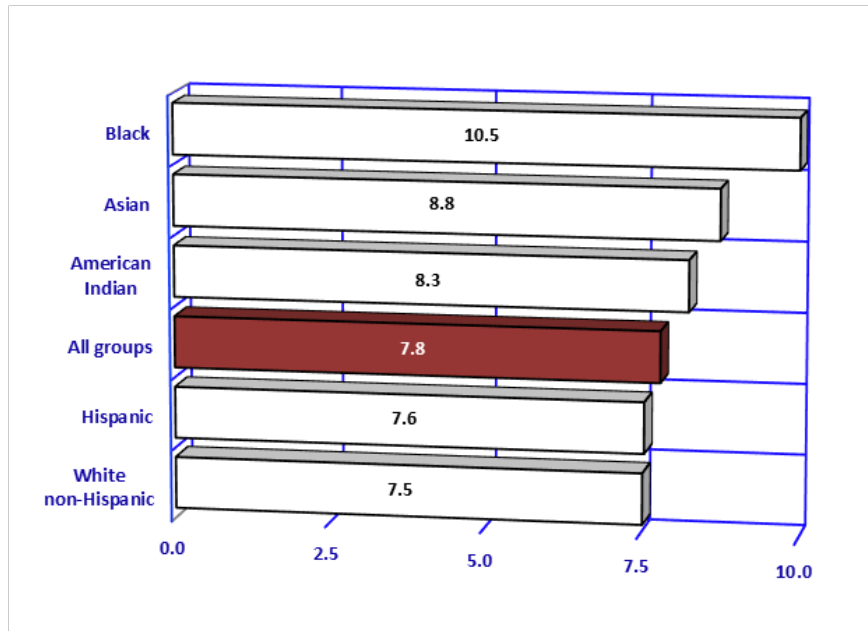
Cigarette smoking during pregnancy has been associated with reduced infant weight at birth, intrauterine growth retardation, and preterm births. Smoking during pregnancy was reported by 3.6 percent of women giving birth in 2020 (**Table 1B-25, Table 5B-30**), compared to 10.5 percent in 1989, when this 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, 2020

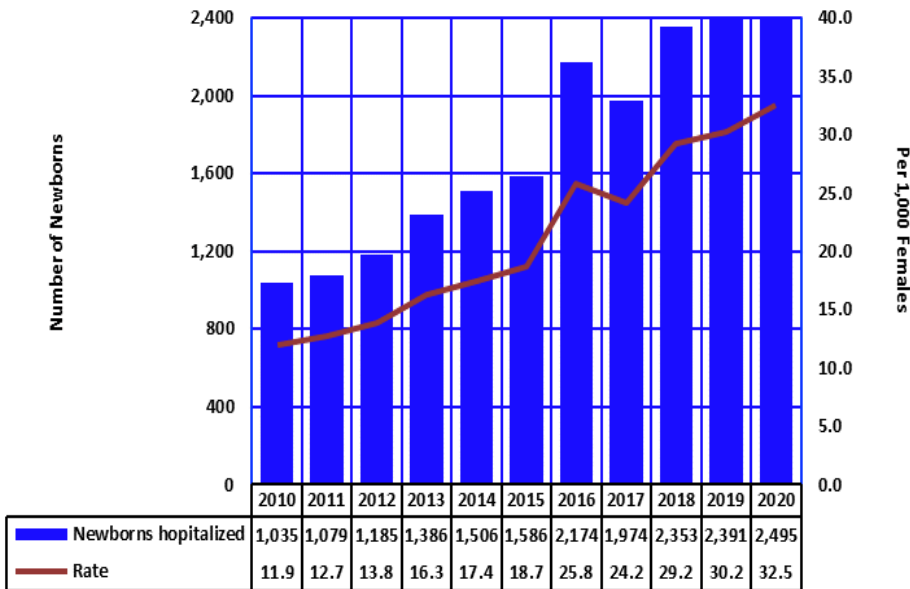
In 2020, 6,006 or 7.8 percent of newborns were admitted to newborn intensive care units (NICUs). The proportion of NICU admissions differed among racial/ethnic groups. Black or African American, Asian or Pacific Islander, and American Indian newborns had the highest rates of NICU admissions compared to the other racial/ethnic groups (**Table 1B-25**). Prematurity, i.e., gestational age before 37 weeks lead to more NICU admissions (54.2 percent) than did LBW (45.0 percent) **Table 1B-32**.



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

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

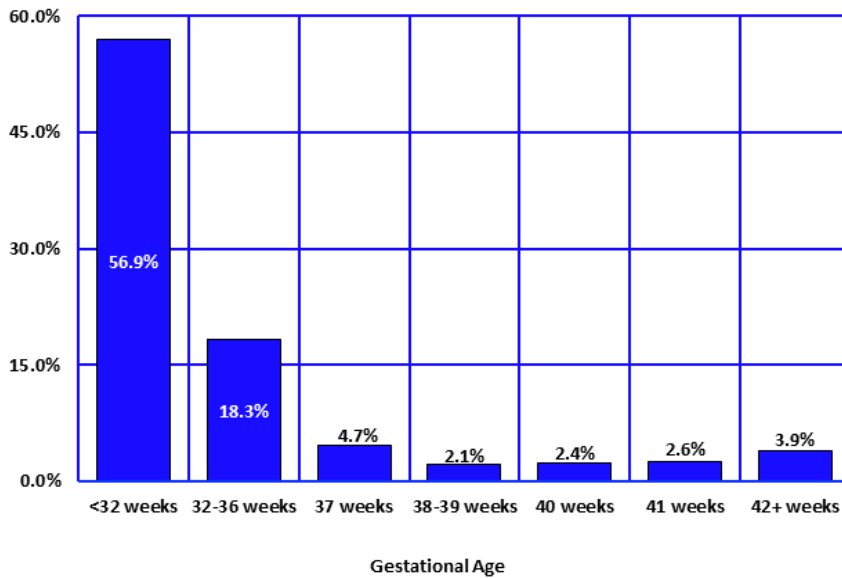
**Figure 1B-25**  
**Newborns Who Were Hospitalized after Birth because They Were Affected by Maternal Use of Drugs during Pregnancy, Arizona, 2010-2020**



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 drugs during pregnancy increased from 11.9/1,000 in 2010 to 32.5/1,000 in 2020.

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, 2020**



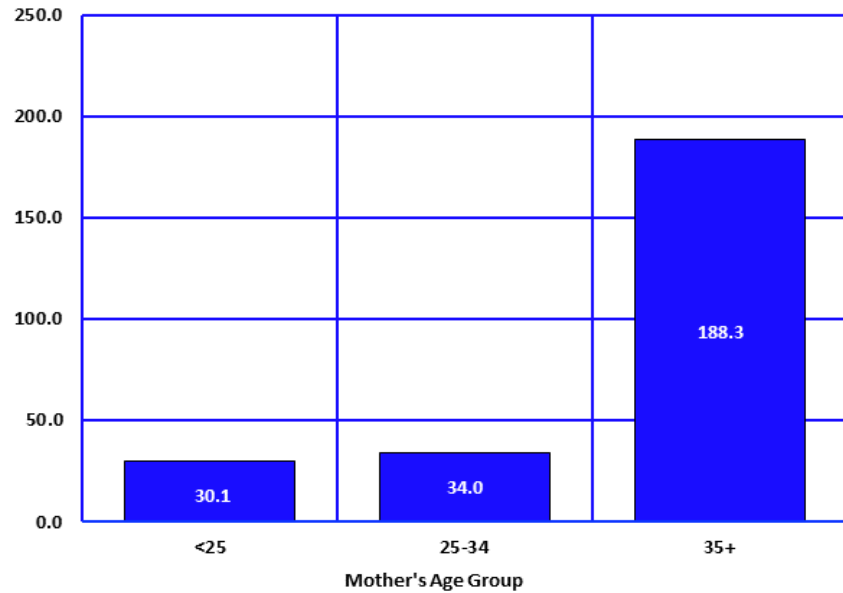
With the implementation of the revised birth certificate, three of the six specific abnormal conditions listed on the birth certificate have been reported most frequently: *assisted ventilation immediately after delivery, assisted ventilation for more than six hours, and suspected neonatal sepsis (Table 1B-32)*. 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, 2020**

Congenital anomalies (birth defects) are among the leading causes 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 2020 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 188.3 cases of Down's Syndrome per 100,000 births to women 35 years or older was 6.3 times greater than the incidence rate of 30.1 for women aged 24 years or younger.



**TABLE 1B-1  
BIRTH RATE<sup>a</sup>, GENERAL FERTILITY RATE<sup>b</sup>, TOTAL FERTILITY RATE<sup>c</sup>,  
GROSS REPRODUCTION RATE<sup>d</sup>, AND AGE-SPECIFIC BIRTH RATES<sup>e</sup> BY YEAR,  
ARIZONA AND UNITED STATES<sup>f</sup>, 2010-2020**

Year	Area	Birth rate	General fertility rate	Total fertility rate	Gross reproduction rate	Age specific birth rates:							
						Under 15 years	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years
2010	AZ	13.6	68.9	2,058	1,011	0.5	41.6	104.3	116.1	94.4	44.4	9.7	0.7
	U.S.	13.0	64.1	1,931	NA	0.4	34.2	90.0	108.3	96.5	45.9	10.2	0.7
2011	AZ	13.2	67.0	2,001	976	0.5	36.9	101.4	112.3	94.0	44.2	10.3	0.2
	U.S.	12.7	63.2	1,894	NA	0.4	31.3	85.3	107.2	96.5	47.2	10.3	0.7
2012	AZ	13.2	67.2	2,018	984	0.3	35.4	100.1	116.4	94.6	459.0	10.3	0.6
	U.S.	12.6	63.0	1,881	NA	0.4	29.4	83.1	106.5	97.3	48.3	10.4	0.7
2013	AZ	12.9	66.0	1,981	963	0.3	31.3	96.7	118.4	93.0	46.4	9.8	0.1
	U.S.	12.5	62.5	1,870	NA	0.3	26.6	81.2	106.2	98.7	49.6	10.5	0.8
2014	AZ	13.0	66.7	1,986	968	0.2	29.9	90.7	117.6	98.1	49.7	10.1	0.9
	U.S.	12.5	62.9	1,863	NA	0.3	24.2	79.0	105.8	100.8	51.0	10.6	0.8
2015	AZ	12.6	64.8	1,924	938	0.2	26.3	86.6	115.4	95.9	48.9	10.5	0.9
	U.S.	12.5	62.5	1,843	NA	0.2	22.3	76.9	104.3	101.4	51.7	11.0	0.8
2016	AZ	12.3	63.9	1,895	930	0.2	23.7	84.2	112.9	98.2	48.7	10.2	0.8
	U.S.	12.4	62.0	1,818	NA	0.2	20.3	73.7	101.9	102.6	52.6	11.4	0.9
2017	AZ	11.7	61.1	1,805	888	0.2	21.9	78.9	105.6	94.9	47.8	10.6	1.1
	U.S.	12.2	60.3	1,764	NA	0.2	18.8	71.0	97.9	100.3	52.2	11.6	0.9
2018	AZ	11.4	59.4	1,750	854	0.1	20.1	76.0	100.3	93.6	48.0	11.1	0.9
	U.S.	11.6	59.1	1,728	NA	0.2	17.4	68.0	95.3	99.7	52.6	11.8	0.9
2019	AZ	11.0	57.4	1,688	823	0.2	18.5	71.2	97.5	92.3	46.4	10.7	0.7
	U.S.	11.6	58.2	1,705	NA	0.2	16.6	66.6	93.7	98.3	52.7	12.0	0.9
2020	AZ	10.7	55.6	1,634	802	0.1	17.0	67.9	92.9	91.6	45.9	10.7	0.6
	U.S.	11.0	56.0	1,641	NA	0.2	15.3	62.8	90.0	94.8	51.7	11.8	0.9

Notes: <sup>a</sup> The number of births per 1,000 population.

<sup>b</sup> The number of births per 1,000 women of childbearing age (15-44 years old).

<sup>c</sup> The total fertility rate (TFR) is the sum of age group specific birth rates multiplied by the number of years in the age group (five years in this case). This rate estimates the number of children a hypothetical cohort of 1,000 women would bear if they all went through their childbearing years experiencing the same age-specific birth rates for a specified time period. For example, the Arizona 2020 TFR of 1,610 can be interpreted at the individual level as the average number of children a female resident would have by age 50 (1,610/1000 = 2 live births) if she were subjected throughout her life to the age-specific birth rates observed in 2020.

<sup>d</sup> The sums of birth rates by 5-year age groups multiplied by the proportion of births that 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 her childbearing years. See Table 1B-2 for the annual proportions of births that were female in 2010-2020.

<sup>e</sup> The number of births per 1,000 women in specified age group. For females under 15, the rate is calculated using the female population 10-14 years of age. For women over 44, the rate is calculated using the female population 45-49 years of age.

<sup>f</sup> The U.S. rates are from the National Center for Health Statistics:

<https://www.cdc.gov/nchs/nvss/vsrr/natalty-dashboard.htm#>

**TABLE 1B-2**  
**LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE**  
**AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX,**  
**BIRTH ORDER, AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020**  
**(ALL RACE/ETHNIC GROUPS)**

Characteristic	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of births</b>	87,053	85,190	85,725	84,963	86,648	85,024	84,404	81,664	80,539	79,183	76,781
<b>Age of mother</b>											
≤19 years	10.8	9.9	9.5	8.5	7.6	6.9	6.4	6.2	5.8	5.5	5.1
≥30 years	35.0	36.1	36.7	37.2	38.8	39.3	40.2	40.9	42.0	42.6	43.9
<b>Marital status</b>											
Unmarried	44.7	44.3	45.2	45.1	44.7	45.3	44.8	44.4	44.6	45.0	45.0
<b>Mother's education</b>											
<9 years	5.3	4.6	4.3	3.8	3.7	3.5	3.2	3.1	3.0	2.8	2.5
<b>Mother's race/ethnicity</b>											
White <sup>b</sup>	44.5	45.0	45.1	45.0	46.3	44.9	44.7	43.7	43.3	43.1	43.1
Hispanic	39.4	38.0	38.7	38.9	38.9	40.3	40.1	40.6	41.0	41.1	41.5
Black	5.0	5.1	5.5	5.6	5.2	5.1	5.2	5.6	5.8	6.1	6.2
American Indian	6.7	6.8	6.5	6.4	5.9	5.9	6.0	6.0	5.8	5.6	5.3
Asian	4.4	5.0	4.2	4.1	3.7	3.8	4.0	4.1	4.1	4.0	3.9
<b>Prenatal care begin</b>											
1 <sup>st</sup> Trimester	81.9	81.7	82.6	81.3	66.0	67.9	68.9	68.3	68.8	68.9	68.8
3 <sup>rd</sup> Trimester	3.2	3.1	3.2	3.6	5.3	5.5	5.8	5.7	6.2	6.8	6.7
No Care	1.6	1.6	1.2	1.4	2.1	2.2	2.4	2.9	2.8	2.6	2.5
<b>Prenatal visits</b>											
1-4	3.3	3.4	3.6	3.8	4.4	4.4	4.6	4.6	5.0	5.6	5.4
≥5	94.9	94.5	94.9	94.7	92.1	92.2	91.5	90.8	90.9	89.9	90.2
≥9	80.5	80.6	81.3	81.2	77.6	77.0	76.0	75.6	74.5	72.4	72.0
≥13	31.6	33.7	34.6	34.8	30.7	30.4	29.9	31.2	31.0	29.2	29.2
<b>Medical risk/ Complications<sup>c</sup></b>	49.7	46.3	52.4	55.5	<b>34.5</b>	<b>39.0</b>	40.7	42.7	44.2	46.9	49.1
<b>Gestational age<sup>d</sup></b>											
Preterm (<37 weeks)	9.6	9.3	9.2	9.0	9.0	9.0	9.0	9.3	9.5	9.3	9.5
<b>Birth weight</b>											
<2,500 grams	7.1	7.0	6.9	6.9	7.0	7.2	7.3	7.5	7.6	7.4	7.4
<1,500 grams	1.1	1.2	1.2	1.1	1.2	1.1	1.2	1.2	1.2	1.1	1.1
<b>Child's sex</b>											
Male	50.9	51.2	51.2	51.4	51.3	51.3	50.9	50.8	51.2	51.2	50.9
Female	49.1	48.8	48.8	48.6	48.7	48.7	49.1	49.2	48.8	48.8	49.1
<b>Plurality</b>											
Multiple births	2.9	2.8	2.8	3.0	3.0	3.0	3.1	3.3	3.3	3.0	3.0
<b>Caesarean delivery</b>	27.6	27.9	27.6	27.8	27.7	27.5	27.5	26.8	27.5	27.8	28.4
<b>Place of delivery</b>											
Hospital <sup>e</sup>	98.8	98.5	98.6	98.7	98.5	98.5	98.3	98.3	98.2	98.3	97.9
<b>Attendant at birth</b>											
Midwife <sup>f</sup>	6.6	6.4	7.2	7.4	10.2	11.8	12.8	13.5	13.1	13.9	13.6
<b>Previous live births</b>											
1 or more	63.0	62.6	62.7	63.6	64.0	64.3	64.8	64.4	64.2	63.9	63.1

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Non-Hispanic.

<sup>c</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>d</sup> Physician's estimate.

<sup>e</sup> Hospital, clinic, medical center or maternity home.

<sup>f</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-3  
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL  
CARE AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX,  
BIRTH ORDER, AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020  
(ALL RACE/ETHNIC GROUPS)**

Characteristic	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of births</b>	6,155	5,949	5,946	5,849	6,069	6,093	6,186	6,109	6,106	5,829	5,650
<b>Age of mother</b>											
≤19 years	12.3	11.6	10.7	8.9	7.8	7.8	7.0	7.1	6.5	5.7	5.6
≥30 years	37.8	37.9	39.4	37.9	40.9	42.0	42.4	43.0	46.3	45.6	46.7
<b>Marital status</b>											
Unmarried	49.4	50.0	51.4	51.3	49.1	47.5	48.2	49.6	49.8	50.0	50.2
<b>Mother's education</b>											
<9 years	4.7	4.5	4.5	4.2	3.8	3.5	3.7	3.0	3.0	2.9	2.8
<b>Mother's race/ethnicity</b>											
White <sup>b</sup>	41.9	43.5	42.1	42.0	44.7	41.7	41.8	41.0	40.3	40.0	39.8
Hispanic	38.1	34.9	37.9	37.6	37.0	38.8	38.8	38.3	38.9	39.0	39.2
Black	8.0	9.2	9.3	8.9	8.8	8.8	8.5	9.4	9.4	10.2	10.8
American Indian	6.6	6.8	6.3	6.7	5.2	6.0	5.9	6.2	6.1	6.1	5.2
Asian	5.4	5.7	4.4	4.7	4.2	4.8	5.1	5.2	5.2	4.7	5.0
<b>Prenatal care began</b>											
1st Trimester	81.0	81.2	80.0	78.9	63.6	65.0	66.0	65.9	64.2	64.5	65.4
3rd Trimester	2.7	2.3	2.7	3.4	4.1	3.9	4.5	4.0	4.8	4.9	5.3
No Care	3.2	3.2	2.9	2.9	4.8	5.2	5.0	5.6	6.9	6.7	5.6
<b>Prenatal visits</b>											
1-4	7.5	7.3	8.6	8.2	8.6	9.4	9.5	9.4	10.2	11.4	11.5
≥5	88.8	88.5	87.9	88.5	84.8	83.1	82.6	82.3	79.6	78.9	80.0
≥9	65.2	65.0	65.5	66.4	60.4	58.1	57.4	56.1	52.1	51.9	51.7
≥13	27.1	28.5	26.7	27.7	22.1	20.2	20.1	21.3	20.1	19.1	18.4
<b>Medical risks/ Complications<sup>c</sup></b>	73.3	69.2	73.2	72.5	<b>58.9</b>	<b>60.0</b>	62.0	65.1	68.7	68.5	70.5
<b>Gestational age<sup>d</sup></b>											
Preterm (<37 weeks)	70.2	70.1	71.2	70.2	69.4	68.8	68.7	67.8	69.2	68.5	69.3
<b>Birth weight</b>											
<1,500 grams	15.3	16.8	16.6	15.8	16.8	16.0	16.3	15.8	16.1	15.5	15.6
<1,000 grams	7.1	8.3	8.1	7.4	8.4	7.4	8.0	7.7	7.8	7.2	7.8
<b>Child's sex</b>											
Male	46.5	46.8	48.7	49.3	47.7	47.4	48.0	46.9	47.2	48.0	47.9
Female	53.5	53.2	51.3	50.7	52.3	52.6	52.0	53.1	52.8	52.0	52.1
<b>Plurality</b>											
Multiple births	23.1	22.8	23.0	24.4	23.7	22.5	23.9	22.8	24.6	22.7	22.4
<b>Caesarean delivery</b>	46.5	46.8	47.7	47.6	47.4	48.6	48.4	47.0	49.1	50.1	50.1
<b>Place of delivery</b>											
Hospital <sup>e</sup>	99.6	99.4	99.7	99.7	99.7	99.5	99.4	99.3	99.6	99.4	99.3
<b>Attendant at birth</b>											
Midwife <sup>f</sup>	2.6	2.3	2.5	2.7	9.5	10.5	11.0	12.3	11.8	12.9	12.6
<b>Previous live births</b>											
1 or more	60.3	59.6	61.4	60.5	61.4	60.9	61.0	60.7	61.8	61.2	59.8

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Non-Hispanic.

<sup>c</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to con

<sup>d</sup> Physician's estimate.

<sup>e</sup> Hospital, clinic, medical center or maternity home.

<sup>f</sup> Licensed Midwife or Certified Nurse Midwife.



**TABLE 1B-4**  
**ALL LIVE BIRTHS AND LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED**  
**MATERNAL, PRENATAL CARE, DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY,**  
**CHILD'S SEX, BIRTH ORDER, AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020**  
**(URBAN REGIONS)<sup>b</sup>**

Characteristic		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of births</b>		74,624	73,040	74,128	73,493	74,677	73,547	72,899	70,780	69,890	68,797	66,845
<b>Age of mother</b>	≤19 years	10.3	9.4	9.0	8.2	7.3	6.6	6.1	5.8	5.5	5.2	4.9
	≥30 years	36.2	37.4	37.9	38.4	40.0	40.6	41.2	42.0	43.1	43.5	44.8
<b>Marital status</b>	Unmarried	43.6	43.2	44.1	44.1	43.6	44.1	43.7	43.2	43.4	43.9	44.0
<b>Mother's education</b>	<9 years	5.6	4.9	4.7	4.0	3.9	3.7	3.5	3.2	3.1	3.0	2.6
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	44.1	45.0	44.6	44.3	45.7	44.5	44.0	43.1	42.6	42.2	42.2
	Hispanic	42.0	40.5	40.9	41.3	41.3	42.5	42.5	43.0	43.2	43.4	43.7
	Black	5.6	5.7	6.1	6.2	5.9	5.8	5.9	6.3	6.5	6.9	6.9
	American Indian	3.6	3.7	3.7	3.7	3.1	3.1	3.2	3.1	3.2	3.1	3.0
	Asian	4.7	5.0	4.7	4.5	4.0	4.2	4.4	4.5	4.4	4.4	4.2
<b>Prenatal care began</b>	1st Trimester	83.1	82.5	83.4	82.1	66.6	68.3	69.4	68.7	69.5	69.9	69.4
	3rd Trimester	2.9	2.9	3.1	3.5	5.2	5.3	5.6	5.4	6.1	6.6	6.5
	No care	1.6	1.6	1.2	1.3	2.1	2.1	2.3	2.8	2.6	2.3	2.3
<b>Prenatal visits</b>	1-4	2.9	3.0	3.2	3.5	4.0	4.1	4.3	4.2	4.7	5.3	5.2
	≥5	95.4	94.8	95.3	95.1	92.4	92.6	91.9	91.2	91.5	90.5	90.7
	≥9	81.9	81.8	82.4	82.3	78.7	78.2	77.1	76.7	75.6	73.2	72.8
	≥13	32.1	34.1	35.1	35.3	31.1	31.0	30.1	31.7	31.7	29.8	29.8
<b>Medical risks/complications<sup>d</sup></b>		50.1	47.2	52.5	56.1	<b>34.5</b>	<b>39.4</b>	41.4	43.1	44.7	47.5	49.7
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	9.7	9.4	9.2	9.1	9.1	9.0	9.0	9.2	9.5	9.3	9.4
<b>Birth weight</b>	<2,500 grams	7.0	6.9	6.9	6.8	7.0	7.1	7.2	7.4	7.6	7.3	7.3
	<1,500 grams	1.1	1.2	1.2	1.1	1.2	1.1	1.2	1.2	1.2	1.1	1.1
<b>Child's sex</b>	Male	50.8	51.2	51.2	51.4	51.3	51.3	51.0	50.7	51.1	51.3	50.8
	Female	49.2	48.8	48.8	48.6	48.7	48.7	49.0	49.3	48.9	48.7	49.2
<b>Plurality</b>	Multiple births	3.0	2.9	2.9	3.1	3.1	3.0	3.2	3.3	3.3	3.0	3.0
<b>Caesarean delivery</b>		28.0	28.3	27.9	28.1	28.1	27.9	27.7	27.2	27.7	28.0	28.8
<b>Place of delivery</b>	Hospital <sup>f</sup>	99.0	98.8	98.7	98.7	98.7	98.6	98.4	98.4	98.3	98.4	98.0
<b>Attendant at birth</b>	Midwife <sup>g</sup>	5.4	5.2	6.3	6.3	10.1	12.1	13.0	13.8	13.1	14.1	13.6
<b>Previous live births</b>	1 or more	62.8	62.4	62.6	63.4	63.7	64.0	64.6	64.0	63.9	63.6	62.7
<b>Number of LBW births</b>		5,238	5,065	5,096	5,013	5,232	5,199	5,270	5,224	5,277	5,030	4,886
<b>Age of mother</b>	≤19 years	12.1	10.9	10.2	8.8	7.3	7.4	6.3	6.9	6.1	5.8	5.4
	≥30 years	38.8	39.3	40.4	39.3	42.0	43.6	44.2	44.1	47.5	46.3	47.6
<b>Marital status</b>	Unmarried	48.4	49.0	50.1	50.8	48.3	49.5	47.1	48.4	48.1	49.0	49.1
<b>Mother's education</b>	<9 years	5.2	4.9	4.7	4.3	4.0	3.6	3.9	3.2	3.2	3.0	2.8
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	41.1	42.8	41.1	40.9	43.3	40.4	41.1	40.2	39.9	38.9	38.5
	Hispanic	40.5	37.2	40.2	39.8	39.4	41.3	40.8	40.6	40.7	41.2	41.0
	Black	9.1	10.3	10.4	10.2	9.9	10.0	9.7	10.8	10.5	11.6	12.1
	American Indian	3.5	3.4	3.3	4.0	2.7	3.0	2.8	2.7	3.2	3.0	2.8
	Asian	5.7	6.3	4.9	5.1	4.6	5.3	5.7	5.6	5.7	5.2	5.6
<b>Prenatal care began</b>	1st Trimester	82.1	81.9	80.5	79.8	63.8	66.0	66.8	66.7	65.2	66.0	66.4
	3rd Trimester	2.4	2.0	2.6	3.3	4.1	3.8	4.3	3.8	4.7	4.8	5.1
	No care	3.0	3.0	2.8	2.7	4.9	4.8	4.3	5.3	6.2	5.7	5.3
<b>Prenatal visits</b>	1-4	7.1	7.0	7.8	7.8	8.4	8.9	8.6	8.7	9.7	11.0	11.6
	≥5	89.5	88.8	88.9	89.1	84.8	84.1	84.0	83.3	81.0	80.1	80.6
	≥9	66.6	65.8	66.5	67.7	60.8	59.6	58.6	57.7	53.7	52.7	52.4
	≥13	28.1	29.1	27.3	28.4	22.6	20.6	20.6	21.8	21.0	19.3	18.5
<b>Medical risks/complications<sup>d</sup></b>		74.6	70.8	74.2	73.7	<b>59.0</b>	<b>60.0</b>	61.7	65.3	68.3	68.6	70.2
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	70.6	71.2	71.3	70.8	70.7	69.5	69.5	67.7	69.6	68.4	70.0
<b>Birth weight</b>	<1,500 grams	15.3	17.4	16.9	15.9	17.0	16.0	16.6	15.7	16.0	15.3	15.4
	<1,000 grams	7.3	8.7	8.4	7.6	8.6	7.7	8.2	7.9	7.7	7.3	7.7
<b>Child's sex</b>	Male	45.9	47.0	48.6	49.2	48.1	47.8	48.3	46.8	46.9	48.2	48.3
	Female	54.1	53.0	51.4	50.8	51.9	52.2	51.7	53.2	53.1	51.8	51.7
<b>Plurality</b>	Multiple births	24.0	23.3	23.9	25.2	24.3	23.4	24.6	23.9	25.4	23.0	22.7
<b>Caesarean delivery</b>		47.0	47.7	48.7	48.0	48.3	49.2	48.8	47.5	49.4	50.5	50.7
<b>Place of delivery</b>	Hospital <sup>f</sup>	99.7	99.5	99.8	99.8	99.8	99.7	99.6	99.5	99.8	99.4	99.4
<b>Attendant at birth</b>	Midwife <sup>g</sup>	2.1	1.6	2.0	2.2	9.5	10.6	11.0	12.3	11.9	13.2	12.4
<b>Previous live births</b>	1 or more	59.3	59.2	61.2	60.0	61.4	60.6	61.0	60.2	61.4	60.3	59.8

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural areas; see Technical Notes for more

<sup>c</sup> Non-Hispanic.

<sup>d</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to con

<sup>e</sup> Physician's estimate.

<sup>f</sup> Hospital, clinic, medical center or maternity home.

<sup>g</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-5  
ALL LIVE BIRTHS AND LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED  
MATERNAL, PRENATAL CARE AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY,  
CHILD'S SEX, BIRTH ORDER, AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020  
(RURAL REGIONS)<sup>b</sup>**

Characteristic		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of births</b>		12,429	12,150	11,597	11,470	11,955	11,467	11,502	10,873	10,640	10,368	9,881
<b>Age of mother</b>	≤19 years	13.9	12.7	12.2	10.6	9.8	9.0	8.5	8.3	7.5	6.9	6.7
	≥30 years	27.9	28.2	29.3	29.4	31.3	30.9	33.4	33.9	34.7	36.2	37.6
<b>Marital status</b>	Unmarried	51.2	51.0	52.4	52.0	51.7	53.0	51.8	52.8	52.3	52.2	51.6
<b>Mother's education</b>	<9 years	3.1	2.5	2.2	2.4	2.3	1.9	1.8	1.9	1.9	1.7	1.8
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	47.2	47.9	48.7	49.1	49.8	47.7	49.3	47.5	47.9	48.7	49.3
	Hispanic	24.4	23.0	24.1	24.0	24.2	26.4	25.3	25.1	26.3	26.3	26.9
	Black	1.2	1.4	1.5	1.3	0.9	0.9	1.0	1.1	1.0	1.0	1.2
	American Indian	25.0	25.7	24.2	24.0	23.5	23.6	23.2	24.7	23.2	22.6	20.9
	Asian	2.2	2.0	1.5	1.7	1.5	1.4	1.2	1.6	1.6	1.4	1.7
<b>Prenatal care began</b>	1st Trimester	74.8	77.1	77.7	76.3	62.5	64.8	65.4	65.4	64.0	62.4	64.3
	3rd Trimester	5.3	4.1	4.3	4.1	6.3	6.7	7.3	7.3	7.1	8.0	7.6
	No care	1.8	1.5	1.5	2.2	1.9	3.0	3.0	3.1	4.1	4.1	3.3
<b>Prenatal visits</b>	1-4	5.9	5.7	5.7	5.6	6.6	6.2	7.0	7.4	7.0	7.3	6.9
	≥5	91.8	92.3	92.4	92.0	90.5	89.9	89.1	88.5	86.9	85.9	86.8
	≥9	71.9	73.3	73.9	73.8	71.1	69.5	69.1	68.4	67.3	66.6	66.4
	≥13	28.7	31.2	31.0	31.7	28.3	26.7	28.4	28.2	26.4	25.0	25.4
<b>Medical risks/complications<sup>d</sup></b>		47.9	41.1	52.0	51.8	<b>34.1</b>	<b>36.7</b>	37.8	39.8	41.3	43.1	45.2
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	9.4	8.8	9.1	8.7	8.3	8.9	9.1	9.6	9.3	9.4	9.5
<b>Birth weight</b>	<2,500 grams	7.4	7.3	7.3	7.3	7.0	7.8	8.0	8.1	7.8	7.7	7.7
	<1,500 grams	1.1	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3
<b>Child's sex</b>	Male	51.4	51.3	51.2	51.3	51.1	51.0	50.3	51.6	51.9	50.7	51.4
	Female	48.6	48.7	48.8	48.7	48.9	49.0	49.7	48.4	48.1	49.3	48.6
<b>Plurality</b>	Multiple births	2.3	2.6	2.2	2.4	2.5	2.6	2.9	2.9	2.7	2.7	2.8
<b>Caesarean delivery</b>		25.2	25.8	25.7	25.8	25.2	25.0	26.2	24.6	26.1	25.8	25.7
<b>Place of delivery</b>	Hospital <sup>f</sup>	97.2	97.0	98.0	98.2	97.7	97.6	97.3	97.1	97.4	97.6	97.1
<b>Attendant at birth</b>	Midwife <sup>g</sup>	13.4	14.0	13.4	14.2	10.7	10.2	11.3	11.2	13.1	12.8	13.9
<b>Previous live births</b>	1 or more	64.3	63.8	63.3	64.8	66.0	65.8	66.3	67.1	66.5	65.8	65.3
<b>Number of LBW births</b>		917	884	850	836	835	891	916	884	827	799	758
<b>Age of mother</b>	≤19 years	13.1	15.5	13.9	9.7	11.3	10.3	10.6	8.6	9.1	5.0	7.1
	≥30 years	31.7	30.1	32.8	29.9	34.5	32.8	32.3	36.5	38.8	40.7	40.6
<b>Marital status</b>	Unmarried	55.2	55.7	59.1	54.2	53.9	57.1	54.3	56.3	60.5	55.9	57.9
<b>Mother's education</b>	<9 years	2.3	2.3	3.1	3.0	2.3	2.5	2.3	1.9	1.6	2.3	3.0
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	46.6	47.3	48.1	49.2	53.5	49.2	46.0	45.7	43.0	46.7	48.0
	Hispanic	24.1	21.6	24.2	24.4	22.0	24.2	27.4	24.5	27.7	25.3	27.7
	Black	1.4	2.6	2.2	1.4	2.2	1.5	1.6	0.9	2.2	1.6	2.0
	American Indian	24.1	26.2	24.0	22.8	20.7	23.2	23.5	26.6	24.8	25.2	21.0
	Asian	3.8	2.3	1.4	2.2	1.6	1.9	1.5	2.3	2.3	1.3	1.3
<b>Prenatal care began</b>	1st Trimester	74.3	77.3	76.5	74.0	62.5	59.5	61.6	61.4	58.2	55.3	59.4
	3rd Trimester	4.0	3.5	3.4	4.2	4.0	5.1	5.6	5.0	5.3	5.1	6.5
	No care	4.4	4.0	3.8	4.1	4.0	7.3	8.7	7.2	11.2	12.4	7.4
<b>Prenatal visits</b>	1-4	9.5	8.7	13.1	10.3	9.7	12.2	14.3	13.1	13.3	13.5	10.6
	≥5	85.1	86.2	82.0	84.7	84.9	77.6	74.7	77.0	70.9	71.1	76.8
	≥9	57.4	60.4	59.2	58.9	58.2	49.5	50.0	46.9	41.5	46.4	48.2
	≥13	21.3	25.2	22.9	23.3	19.2	17.8	17.6	18.8	14.1	17.8	17.4
<b>Medical risks/complications<sup>d</sup></b>		66.1	60.2	67.4	65.4	<b>58.0</b>	<b>59.9</b>	63.9	63.6	70.9	68.0	72.2
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	67.8	64.0	70.5	66.6	61.0	65.2	63.6	67.9	66.5	68.8	64.2
<b>Birth weight</b>	<1,500 grams	15.3	13.5	14.5	15.7	15.3	10.0	14.7	16.4	17.0	16.3	16.5
	<1,000 grams	6.3	6.0	6.2	6.3	7.1	5.7	6.7	6.7	8.6	6.6	8.2
<b>Child's sex</b>	Male	50.2	45.9	49.2	50.0	45.0	44.6	46.4	47.9	49.0	47.1	45.6
	Female	49.8	54.1	50.8	50.0	55.0	55.4	53.6	52.1	51.0	52.9	54.4
<b>Plurality</b>	Multiple births	17.9	20.5	17.9	19.5	20.2	17.5	19.8	16.5	19.2	20.9	20.3
<b>Caesarean delivery</b>		43.2	41.4	41.8	45.5	42.3	45.2	46.0	44.3	47.2	47.6	46.0
<b>Place of delivery</b>	Hospital <sup>f</sup>	99.2	98.5	98.9	99.2	99.0	98.4	98.1	98.0	98.8	99.5	98.8
<b>Attendant at birth</b>	Midwife <sup>g</sup>	5.3	6.3	5.2	5.7	9.2	9.7	10.7	11.9	11.4	10.6	13.9
<b>Previous live births</b>	1 or more	65.6	62.2	62.4	63.3	61.1	62.3	61.0	63.7	64.1	66.8	59.9

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Rural = Apache, Cochise, Coconino, Gila, Graham, Greenlee, La Paz, Mohave, Navajo, Santa Cruz, and Yavapai counties; the remaining counties comprise Arizona's urban areas; see Technical Notes for more information.

<sup>c</sup> Non-Hispanic.

<sup>d</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>e</sup> Physician's estimate.

<sup>f</sup> Hospital, clinic, medical center or maternity home.

<sup>g</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-6**  
**LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY**  
**CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,**  
**AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020**  
**(WHITE NON-HISPANIC MOTHERS)**

Characteristic	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of births</b>	38,777	38,294	38,670	38,220	40,097	38,180	37,762	35,685	34,909	34,118	33,101
<b>Age of mother</b>											
≤19 Years	6.2	5.5	5.1	4.7	4.4	4.0	3.6	3.3	3.1	2.9	2.7
≥30 Years	40.4	41.5	42.9	43.2	45.1	45.6	47.0	48.0	49.2	49.3	51.1
<b>Marital status</b>											
Unmarried	29.9	29.5	30.4	30.3	31.1	31.5	31.3	30.7	31.1	31.3	31.1
<b>Mother's education</b>											
<9 years	1.1	1.2	1.0	0.8	0.7	0.8	0.6	0.8	0.7	0.7	0.7
<b>Prenatal care began</b>											
1st Trimester	88.2	88.0	88.4	87.4	71.7	73.2	74.7	74.6	75.7	75.8	75.1
3rd Trimester	2.1	1.8	1.8	2.0	3.5	3.7	3.9	4.2	4.3	4.8	4.7
No Care	0.6	0.6	0.6	0.7	1.1	1.3	1.4	1.6	1.6	1.5	1.5
<b>Prenatal visits</b>											
1-4	1.7	1.7	2.0	2.1	2.6	2.7	2.8	3.1	3.2	3.7	3.6
≥5	97.5	97.1	97.1	97.1	94.8	94.5	94.0	93.8	94.0	92.6	92.6
≥9	87.6	86.9	87.3	87.2	83.7	83.2	82.2	82.0	81.5	78.8	77.8
≥13	37.4	39.7	41.2	41.9	36.6	36.2	35.5	37.3	36.8	33.1	32.5
<b>Medical risks/ Complications<sup>b</sup></b>	49.5	46.1	50.6	55.1	<b>32.8</b>	<b>35.4</b>	37.9	39.7	40.3	43.3	45.4
<b>Gestational Age<sup>c</sup></b>											
Preterm (<37 weeks)	9.2	9.1	8.7	8.4	8.6	8.6	8.5	8.6	8.9	8.7	8.9
<b>Birth weight</b>											
<2,500 grams	6.7	6.7	6.5	6.4	6.8	6.6	6.8	7.0	7.1	6.8	6.8
<1,500 grams	0.9	1.1	1.0	1.0	1.1	1.0	1.1	1.0	1.1	1.0	1.0
<b>Child's sex</b>											
Male	51.4	51.1	51.3	51.3	51.3	51.6	50.9	50.7	51.5	51.7	50.6
Female	48.6	48.9	48.7	48.7	48.7	48.4	49.1	49.3	48.5	48.3	49.4
<b>Plurality</b>											
Multiple births	3.5	3.5	3.4	3.6	3.7	3.4	3.8	3.9	3.7	3.5	3.4
<b>Caesarean delivery</b>	29.1	29.4	28.7	28.4	28.8	28.1	28.0	27.2	27.4	27.8	28.3
<b>Place of delivery</b>											
Hospital <sup>d</sup>	97.7	97.4	97.4	97.6	97.4	97.2	96.9	96.9	96.8	97.0	96.4
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	4.8	4.9	6.0	6.5	12.6	14.1	15.1	15.6	15.4	16.4	16.1
<b>Previous live births</b>											
1 or more	59.6	59.2	59.6	60.5	60.9	61.5	62.2	61.7	62.0	61.3	60.6

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correc

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-7  
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND  
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,  
AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020  
(WHITE NON-HISPANIC MOTHERS)**

<b>Characteristic</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Number of LBW births</b>	2,579	2,586	2,505	2,459	2,715	2,538	2,585	2,507	2,463	2,331	2,248
<b>Age of mother</b>											
≤19 years	7.1	6.8	6.5	5.2	4.8	5.5	4.3	4.4	3.7	3.3	2.9
≥30 years	43.6	44.8	45.5	42.5	47.5	47.8	49.5	49.9	54.1	50.6	52.7
<b>Marital status</b>											
Unmarried	34.7	36.2	37.2	36.9	37.9	39.9	35.8	37.5	37.0	39.3	37.6
<b>Mother's education</b>											
<9 years	1.1	1.5	1.4	1.6	1.1	0.9	0.8	0.7	1.0	0.9	1.0
<b>Prenatal care began</b>											
1st Trimester	86.1	86.4	84.2	83.9	69.4	71.1	70.9	71.5	70.8	69.5	71.6
3rd Trimester	2.1	1.4	2.0	2.2	3.2	3.0	3.8	3.7	3.8	3.9	4.3
No Care	2.2	1.7	2.2	1.6	3.4	3.9	3.6	3.8	5.0	4.4	4.4
<b>Prenatal visits</b>											
1-4	4.5	4.5	6.1	5.6	6.0	7.8	7.0	8.0	8.7	8.6	9.1
≥5	92.9	92.5	91.1	92.4	88.7	85.3	86.0	85.5	82.8	83.0	82.9
≥9	74.4	71.5	71.4	70.6	67.4	64.3	63.5	61.1	57.3	56.6	55.9
≥13	34.3	34.6	31.7	33.0	28.4	24.0	25.3	25.5	24.8	21.4	20.3
<b>Medical risks/ Complications<sup>b</sup></b>											
	73.2	72.2	74.2	75.2	<b>60.4</b>	<b>58.6</b>	62.3	64.5	67.5	64.8	69.1
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	69.5	70.9	71.4	70.7	68.7	70.0	69.4	66.5	70.8	67.8	70.2
<b>Birth weight</b>											
<1,500 grams	13.3	16.7	16.1	15.3	16.4	8.8	15.6	13.6	15.1	14.2	14.9
<1,000 grams	5.7	7.6	7.6	6.9	7.3	6.3	7.0	6.1	7.2	5.8	7.1
<b>Child's sex</b>											
Male	45.4	47.1	46.7	49.3	47.0	46.7	45.9	45.8	46.7	48.8	45.4
Female	54.6	52.9	53.3	50.7	53.0	53.3	54.1	54.2	53.3	51.2	54.6
<b>Plurality</b>											
Multiple births	29.2	29.1	28.8	29.7	30.3	27.2	30.6	27.3	30.1	27.5	27.4
<b>Caesarean delivery</b>	51.1	50.9	52.5	49.5	52.2	52.2	52.3	49.3	51.1	51.6	53.5
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.5	99.2	99.4	99.6	99.5	99.3	99.2	99.0	99.4	99.3	99.0
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	1.1	1.0	1.3	1.7	11.4	11.9	12.8	13.3	14.0	14.5	16.1
<b>Previous live births</b>											
1 or more	58.2	56.2	57.9	56.8	58.8	56.5	59.1	57.1	59.9	57.4	57.3

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correc

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-8**  
**LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY**  
**CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,**  
**AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020**  
**(HISPANIC OR LATINO MOTHERS)**

Characteristic	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of births</b>	34,333	32,398	33,146	33,075	33,715	34,264	33,874	33,191	32,995	32,575	31,859
<b>Age of mother</b>											
≤19 years	15.6	14.3	14.0	12.3	11.3	9.9	9.3	9.0	8.5	8.0	7.6
≥30 years	29.4	29.8	30.2	30.6	31.9	32.3	32.5	33.3	33.6	34.5	35.7
<b>Marital status</b>											
Unmarried	56.2	56.6	57.2	57.1	56.1	56.2	55.8	55.1	54.7	55.0	55.0
<b>Mother's education</b>											
<9 years	10.7	9.3	8.7	7.6	7.5	6.7	6.2	5.5	5.3	5.0	4.5
<b>Prenatal care began</b>											
1st Trimester	76.6	76.5	78.2	76.2	60.5	63.6	63.9	63.4	63.8	64.2	64.4
3rd Trimester	4.1	4.1	4.3	5.0	6.9	6.9	7.4	6.8	7.7	8.4	8.1
No Care	2.6	2.5	1.9	2.1	3.2	3.0	3.4	4.1	3.7	3.4	3.2
<b>Prenatal visits</b>											
1-4	4.2	4.4	4.5	4.8	5.4	5.3	5.6	5.3	6.1	6.7	6.3
≥5	93.0	92.7	93.3	93.0	90.2	90.9	89.9	88.8	89.0	88.5	88.9
≥9	75.0	76.3	77.0	77.0	73.5	73.0	72.0	71.6	70.3	68.6	68.8
≥13	27.2	28.8	29.1	29.0	26.2	26.1	25.8	26.8	26.9	26.7	27.1
<b>Medical risks/</b>											
<b>Complications<sup>b</sup></b>	48.0	44.2	52.6	54.6	<b>34.2</b>	<b>40.0</b>	41.6	43.0	45.2	47.6	50.4
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	9.5	9.1	9.4	9.3	9.2	9.0	9.2	9.3	9.5	9.2	9.3
<b>Birth weight</b>											
<2,500 grams	6.8	6.4	6.8	6.6	6.7	6.9	7.1	7.0	7.2	7.0	7.0
<1,500 grams	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.1	1.1
<b>Child's sex</b>											
Male	50.5	51.4	51.2	51.3	51.3	50.9	50.9	50.6	51.1	50.7	51.0
Female	49.5	48.6	48.8	48.7	48.7	49.1	49.1	49.4	48.9	49.3	49.0
<b>Plurality</b>											
Multiple births	2.3	2.1	2.1	2.4	2.2	2.4	2.5	2.6	2.8	2.2	2.5
<b>Caesarean delivery</b>	25.9	26.1	26.0	26.7	26.1	26.3	26.3	25.6	26.7	26.9	27.3
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.7	99.6	99.6	99.6	99.5	99.5	99.4	99.3	99.3	99.3	99.2
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	5.7	5.3	6.1	5.9	7.4	9.8	10.9	11.8	11.4	12.1	11.5
<b>Previous live births</b>											
1 or more	66.9	66.6	66.2	67.0	67.4	67.1	67.7	66.8	65.9	65.7	64.8

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-9**  
**LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND**  
**DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,**  
**AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020**  
**(HISPANIC OR LATINO MOTHERS)**

Characteristic	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of LBW births</b>	2,342	2,075	2,256	2,199	2,247	2,364	2,400	2,339	2,378	2,276	2,215
<b>Age of mother</b>											
≤19 years	17.1	16.6	15.0	12.9	11.7	10.9	9.9	10.0	9.3	8.1	8.2
≥30 years	32.6	29.3	32.3	31.7	33.0	35.4	35.0	34.7	37.2	39.9	39.9
<b>Marital status</b>											
Unmarried	60.6	61.7	61.9	61.5	58.1	58.5	58.4	58.4	58.8	56.0	58.1
<b>Mother's education</b>											
<9 years	9.5	9.3	8.5	7.2	7.4	6.4	7.0	5.6	5.1	5.1	5.1
<b>Prenatal care began</b>											
1st Trimester	76.7	77.2	76.5	74.8	59.3	60.3	62.2	61.9	60.6	62.6	61.8
3rd Trimester	3.2	2.7	3.2	3.8	4.9	4.4	5.0	4.9	5.6	6.1	5.6
No Care	3.9	4.3	3.7	4.2	5.8	5.6	6.1	7.1	7.4	7.3	7.1
<b>Prenatal visits</b>											
1-4	9.2	9.7	10.6	9.5	10.5	9.5	10.7	10.7	10.8	13.3	12.8
≥5	86.2	85.4	85.4	85.9	82.2	83.4	80.7	79.9	78.8	77.3	78.1
≥9	58.7	59.9	59.9	63.7	55.2	54.0	52.2	52.5	48.9	49.6	48.0
≥13	21.4	23.6	21.9	24.1	16.3	15.7	16.3	17.2	16.5	17.4	16.7
<b>Medical risks</b>											
<b>Complications<sup>b</sup></b>	72.8	66.4	73.8	70.3	<b>57.1</b>	<b>61.1</b>	61.0	65.2	69.2	70.7	71.2
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	70.9	71.4	72.0	71.5	72.0	69.4	68.6	69.9	70.0	69.7	69.4
<b>Birth weight</b>											
<1,500 grams	15.6	16.6	16.8	16.7	16.6	16.2	16.3	17.9	17.4	15.9	15.3
<1,000 grams	7.3	8.9	8.2	8.0	8.9	7.7	8.1	9.1	8.3	7.9	7.9
<b>Child's sex</b>											
Male	47.8	46.7	51.1	49.9	49.3	48.3	50.5	48.2	49.0	48.5	50.1
Female	52.2	53.3	48.9	50.1	50.7	51.7	49.5	51.8	51.0	51.5	49.9
<b>Plurality</b>											
Multiple births	18.8	18.1	18.5	21.3	18.0	18.4	19.5	20.9	21.6	19.1	19.4
<b>Caesarean delivery</b>	42.5	44.4	43.3	46.5	42.9	45.3	45.4	44.5	48.0	49.2	46.0
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.9	99.6	99.8	99.8	99.9	99.7	99.5	99.5	100.0	99.6	99.5
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	3.0	2.4	3.0	2.5	7.0	9.1	9.6	11.3	10.3	11.6	10.1
<b>Previous live births</b>											
1 or more	63.0	62.8	63.9	63.4	63.7	64.0	63.1	63.1	62.8	63.4	60.3

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-10**  
**LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY**  
**CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,**  
**AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020**  
**(BLACK OR AFRICAN AMERICAN MOTHERS)**

Characteristic	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of births</b>	4,328	4,366	4,715	4,726	4,522	4,361	4,388	4,595	4,655	4,865	4,766
<b>Age of mother</b>											
≤19 years	13.0	12.8	11.5	10.7	8.7	7.2	7.2	7.2	5.8	5.8	5.4
≥30 years	28.3	30.3	30.2	30.6	34.1	36.0	35.0	37.1	39.0	41.4	41.8
<b>Marital status</b>											
Unmarried	63.1	63.6	64.8	63.7	62.5	63.2	61.3	60.6	60.6	62.7	62.9
<b>Mother's education</b>											
<9 years	5.2	4.3	4.3	3.7	3.3	4.1	4.3	4.7	3.7	4.4	3.6
<b>Prenatal care began</b>											
1st Trimester	81.6	80.4	79.9	78.2	61.4	62.2	62.8	61.4	62.4	59.8	60.3
3rd Trimester	3.3	3.0	3.4	4.5	7.7	6.9	7.9	6.5	7.6	8.3	8.1
No Care	1.7	1.6	1.1	1.3	2.8	2.5	2.2	3.3	3.0	3.0	2.7
<b>Prenatal visits</b>											
1-4	4.1	4.0	4.5	4.7	6.2	6.4	6.3	5.6	6.4	7.2	7.3
≥5	94.0	93.4	94.1	93.8	89.7	89.9	89.6	88.2	88.8	87.7	87.5
≥9	78.4	79.1	78.5	79.1	72.1	71.5	70.2	69.2	68.2	64.5	65.0
≥13	30.4	33.6	32.7	31.0	24.7	25.4	25.7	26.3	28.3	25.8	27.3
<b>Medical risks</b>											
<b>Complications<sup>b</sup></b>	56.0	52.0	56.6	57.2	<b>36.0</b>	<b>44.3</b>	44.3	45.8	49.6	53.6	54.1
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	12.3	12.7	11.9	11.8	12.1	12.2	12.4	12.4	12.4	13.2	13.1
<b>Birth weight</b>											
<2,500 grams	11.4	12.5	11.7	11.1	11.9	12.3	12.0	12.4	12.3	12.3	12.8
<1,500 grams	2.6	2.5	2.3	2.0	2.5	2.3	2.4	2.3	2.1	2.4	2.6
<b>Child's sex</b>											
Male	50.8	50.5	50.5	51.8	51.9	51.5	50.7	51.8	49.0	51.7	50.7
Female	49.2	49.5	49.5	48.2	48.1	48.5	49.3	48.2	51.0	48.3	49.3
<b>Plurality</b>											
Multiple births	3.3	3.6	4.1	3.7	4.7	3.9	3.3	4.0	4.7	4.4	4.2
<b>Caesarean delivery</b>											
	30.7	31.1	31.9	31.4	33.0	32.8	32.4	30.8	33.7	34.1	34.6
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.5	99.3	99.6	99.3	99.5	99.6	99.1	99.0	99.1	98.8	98.0
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	3.4	2.7	3.5	3.9	8.8	11.7	12.0	13.2	12.0	12.1	12.0
<b>Previous live births</b>											
1 or more	62.8	63.0	63.8	64.6	66.9	66.2	66.2	67.1	67.4	68.4	67.4

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-11**  
**LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND**  
**DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,**  
**AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020**  
**(BLACK OR AFRICAN AMERICAN MOTHERS)**

Characteristic	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of LBW births</b>	492	546	551	523	536	535	525	572	573	596	608
<b>Age of mother</b>											
≤19 years	17.5	13.7	10.2	12.8	9.0	6.9	9.1	7.9	7.5	7.6	7.1
≥30 years	27.6	33.5	32.3	33.8	35.8	38.7	33.9	38.6	40.1	40.4	42.6
<b>Marital status</b>											
Unmarried	72.2	67.9	69.0	72.8	67.0	64.9	64.0	64.2	64.9	67.6	68.4
<b>Mother's education</b>											
<9 years	4.3	2.9	2.9	3.1	2.4	3.0	4.6	3.0	2.8	3.4	1.8
<b>Prenatal care began</b>											
1st Trimester	82.5	80.0	78.8	77.8	59.1	63.9	62.5	61.0	60.0	57.2	60.7
3rd Trimester	1.6	3.1	3.4	3.3	4.7	4.5	5.1	2.8	5.4	4.0	6.3
No Care	2.4	2.4	2.4	3.4	6.2	5.0	4.6	6.5	7.2	7.7	4.9
<b>Prenatal visits</b>											
1-4	9.3	9.5	10.3	8.6	11.2	12.9	10.9	9.3	10.8	13.1	12.8
≥5	87.8	86.3	86.0	87.2	81.2	80.4	81.0	80.6	79.1	75.3	79.9
≥9	60.4	64.1	64.4	66.7	55.2	55.7	55.6	51.6	53.9	46.8	50.8
≥13	26.6	29.3	27.6	25.2	20.1	22.2	16.0	20.1	20.9	17.1	17.9
<b>Medical risks</b>											
<b>Complications<sup>b</sup></b>	74.0	68.7	68.4	70.0	<b>56.7</b>	<b>57.9</b>	59.4	61.0	68.1	67.8	69.9
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	68.9	65.6	65.7	66.9	68.3	65.0	68.2	65.2	62.8	68.3	67.3
<b>Birth weight</b>											
<1,500 grams	23.0	20.0	20.0	18.0	21.5	18.5	20.0	18.4	16.9	19.8	20.4
<1,000 grams	12.6	10.8	10.3	10.3	12.9	10.5	11.4	11.4	9.2	10.6	11.3
<b>Child's sex</b>											
Male	42.3	46.0	45.7	47.2	45.9	46.9	46.1	44.9	41.7	43.5	47.2
Female	57.7	54.0	54.3	52.8	54.1	53.1	53.9	55.1	58.3	56.5	52.8
<b>Plurality</b>											
Multiple births	19.7	17.8	21.2	21.4	22.2	22.8	15.6	20.6	22.7	24.0	19.9
<b>Caesarean delivery</b>	43.9	43.4	45.6	42.8	45.9	47.9	47.6	44.8	49.7	50.8	50.3
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.4	99.8	100.0	99.0	99.8	100.0	99.6	99.5	99.7	99.2	99.3
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	2.0	2.6	0.9	1.9	8.6	10.3	11.2	12.2	12.0	12.4	11.0
<b>Previous live births</b>											
1 or more	59.3	62.5	65.2	61.8	66.6	64.9	60.6	68.9	64.6	65.4	67.3

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.



**TABLE 1B-12  
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY  
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,  
AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020  
(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)**

<b>Characteristic</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Number of births</b>	5,815	5,830	5,569	5,476	5,145	4,984	5,030	4,866	4,709	4,462	4,087
<b>Age of mother</b>											
≤19 years	17.0	16.9	16.0	14.2	11.7	11.4	10.7	10.7	9.8	9.2	8.4
≥30 years	24.1	25.0	25.2	26.6	26.7	28.9	31.3	31.0	34.4	34.6	36.7
<b>Marital status</b>											
Unmarried	77.7	77.1	78.5	79.2	78.9	79.6	78.1	77.9	78.9	78.4	78.7
<b>Mother's education</b>											
<9 years	2.8	2.5	2.5	2.4	2.2	2.1	1.9	1.7	1.9	1.6	1.4
<b>Prenatal care began</b>											
1st Trimester	69.4	68.6	68.2	68.7	58.4	58.5	60.7	59.4	56.5	57.4	57.1
3rd Trimester	6.2	6.1	7.0	6.1	7.5	8.4	8.2	8.4	9.4	9.0	10.8
No Care	2.3	2.5	2.0	2.4	2.9	4.3	4.0	4.1	5.1	5.3	4.3
<b>Prenatal visits</b>											
1-4	8.8	9.0	9.1	9.5	10.5	10.4	11.0	11.5	11.2	12.0	12.1
≥5	88.5	87.8	88.4	87.7	85.0	84.2	83.9	83.0	81.5	80.1	80.8
≥9	64.0	62.8	64.0	63.7	59.3	60.0	59.9	58.8	55.5	55.7	54.0
≥13	18.8	19.7	20.7	21.3	18.2	18.7	19.0	19.9	18.4	18.6	19.6
<b>Medical risks/ Complications<sup>b</sup></b>	55.3	53.8	60.4	61.7	<b>45.9</b>	<b>52.4</b>	53.5	56.1	59.2	60.4	60.6
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	10.6	9.0	9.7	9.7	8.2	9.6	9.9	10.9	10.4	10.6	10.8
<b>Birth weight</b>											
<2,500 grams	7.0	6.9	6.7	7.2	6.1	7.3	7.2	7.7	7.9	7.9	7.2
<1,500 grams	1.2	1.3	1.1	1.0	0.9	1.3	1.3	1.3	1.4	1.3	1.2
<b>Child's sex</b>											
Male	50.4	50.7	50.5	51.6	49.7	50.8	50.4	51.6	52.0	51.3	51.8
Female	49.6	49.3	49.5	48.4	50.3	49.2	49.6	48.4	48.0	48.7	48.2
<b>Plurality</b>											
Multiple births	1.8	1.5	1.6	1.8	1.3	1.8	2.2	2.2	2.0	2.1	1.7
<b>Caesarean delivery</b>	22.9	23.1	23.8	24.0	22.7	22.6	23.5	24.4	25.2	24.6	26.8
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.6	99.6	99.7	99.7	99.7	99.4	99.5	99.5	99.2	99.5	99.4
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	28.6	27.9	27.8	27.6	10.6	9.1	9.8	10.0	10.0	10.0	11.9
<b>Previous live births</b>											
1 or more	67.3	66.5	67.6	68.5	70.0	71.0	71.4	70.5	71.2	70.5	69.9

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-13**  
**LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND**  
**DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,**  
**AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020**  
**(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)**

Characteristic	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of LBW births</b>	406	403	372	393	315	365	363	376	373	353	294
<b>Age of mother</b>											
≤19 years	15.3	18.9	18.0	10.2	10.8	10.1	8.5	10.4	9.4	6.2	8.5
≤30 years	29.6	26.8	33.1	29.5	30.8	34.5	35.5	38.0	42.9	41.6	38.8
<b>Marital status</b>											
Unmarried	75.4	81.1	80.9	82.2	78.4	81.9	75.2	79.8	80.7	79.9	83.0
<b>Mother's education</b>											
<9 years	3.0	2.0	3.2	5.1	2.9	3.6	1.1	2.9	2.4	2.3	2.0
<b>Prenatal care began</b>											
1st Trimester	69.7	70.0	69.1	66.9	46.7	48.5	54.0	54.0	45.0	47.3	50.0
3rd Trimester	4.2	4.0	4.3	8.4	5.1	6.6	6.3	4.3	5.9	4.2	9.2
No Care	6.7	6.7	5.9	4.3	8.6	13.7	9.9	10.1	17.2	19.3	8.2
<b>Prenatal visits</b>											
1-4	13.5	11.4	15.1	17.6	15.6	15.3	18.5	15.2	17.7	18.7	22.8
≥5	78.8	79.7	78.2	76.8	72.7	66.6	69.4	70.5	59.5	58.4	63.9
≥9	47.8	47.4	51.6	50.6	40.6	40.5	41.3	40.2	28.7	34.0	39.8
≥13	15.5	13.9	16.4	15.3	10.2	11.2	12.9	14.9	8.8	10.2	14.3
<b>Medical risks/</b>											
<b>Complications<sup>b</sup></b>	74.4	65.5	70.2	71.2	<b>65.7</b>	<b>68.5</b>	70.8	71.3	77.2	85.0	80.6
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	74.9	69.0	79.0	70.7	65.1	69.9	71.1	72.1	68.1	70.3	69.4
<b>Birth weight</b>											
<1,500 grams	16.7	18.4	16.7	13.7	14.6	18.1	17.6	16.8	17.4	16.1	17.3
<1,000 grams	7.4	9.2	8.9	4.6	7.9	8.5	7.7	6.4	8.3	6.5	8.2
<b>Child's sex</b>											
Male	54.9	46.4	49.2	51.4	44.4	45.8	52.1	50.3	49.9	43.6	51.0
Female	45.1	53.6	50.8	48.6	55.6	54.2	47.9	49.7	50.1	56.4	49.0
<b>Plurality</b>											
Multiple births	15.5	11.7	15.6	12.7	9.8	13.4	17.4	10.6	13.1	13.9	12.9
<b>Caesarean delivery</b>	44.6	34.5	47.3	44.3	41.9	43.8	43.3	47.3	42.9	49.0	53.1
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.8	99.5	99.7	100.0	100.0	98.6	99.2	99.2	98.4	99.7	100.0
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	11.1	10.7	8.9	11.5	10.2	7.9	8.5	11.4	8.6	8.8	7.5
<b>Previous live births</b>											
1 or more	67.2	64.3	69.6	68.7	69.8	70.4	69.7	68.4	71.3	72.5	66.7

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-14**  
**LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY**  
**CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,**  
**AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020**  
**(ASIAN OR PACIFIC ISLANDER MOTHERS)**

Characteristic	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of births</b>	3,293	3,505	3,625	3,466	3,169	3,235	3,350	3,327	3,271	3,163	2,968
<b>Age of mother</b>											
≤19 years	3.1	3.2	2.2	2.3	1.8	1.9	1.5	1.7	1.3	1.3	1.0
≥30 years	55.9	57.4	57.3	59.2	60.4	60.5	60.8	61.9	65.1	65.6	64.9
<b>Marital status</b>											
Unmarried	17.4	17.3	17.3	16.0	15.2	14.3	15.4	14.6	14.8	14.8	16.4
<b>Mother's education</b>											
<9 years	3.3	3.1	3.1	2.7	3.0	3.1	3.0	2.9	3.0	2.3	2.3
<b>Prenatal care began</b>											
1st Trimester	88.1	86.5	87.1	86.4	70.5	71.8	73.2	72.2	72.5	73.2	74.3
3rd Trimester	2.3	2.3	2.0	2.9	4.5	5.0	4.3	4.7	5.0	6.5	5.2
No Care	1.2	1.0	0.7	0.7	1.4	1.2	1.3	1.9	1.9	1.3	1.7
<b>Prenatal visits</b>											
1-4	1.9	2.3	2.4	2.6	2.6	3.6	3.1	2.8	3.3	3.9	3.3
≥5	96.7	96.2	96.8	96.6	94.5	93.9	93.7	93.9	93.6	93.2	93.6
≥9	86.7	84.2	86.2	85.6	82.3	80.6	79.8	81.2	79.0	77.3	77.0
≥13	36.0	37.9	37.2	39.2	33.7	31.6	29.9	34.7	33.5	32.2	31.7
<b>Medical risks/ Complications<sup>b</sup></b>	51.5	47.4	52.9	57.4	<b>37.9</b>	<b>42.2</b>	44.4	47.0	47.1	49.4	51.2
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	9.9	9.0	8.4	8.9	8.0	9.4	8.7	9.6	10.0	9.5	9.3
<b>Birth weight</b>											
<2,500 grams	8.5	8.3	7.2	7.9	8.1	9.0	9.3	9.5	9.8	8.6	9.6
<1,500 grams	1.4	1.1	0.8	1.1	1.2	1.2	1.4	1.1	1.2	1.0	1.1
<b>Child's sex</b>											
Male	50.7	52.4	52.1	51.4	51.5	51.5	51.7	51.3	51.2	51.9	51.2
Female	49.3	47.6	47.9	48.6	48.5	48.5	48.3	48.7	48.8	48.1	48.8
<b>Plurality</b>											
Multiple births	2.5	3.3	2.5	3.2	3.2	3.3	3.7	3.4	3.0	3.2	2.6
<b>Caesarean delivery</b>	32.8	33.0	32.1	33.2	32.4	34.0	32.5	32.3	30.9	31.0	33.6
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.6	99.3	99.2	99.1	99.3	99.4	99.3	99.3	99.1	98.8	98.9
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	2.8	3.1	4.0	3.3	10.0	10.4	11.1	11.8	11.4	13.5	14.5
<b>Previous live births</b>											
1 or more	55.5	54.6	55.5	56.2	53.4	54.0	54.1	56.6	56.3	56.7	56.2

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-15**  
**LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND**  
**DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,**  
**AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020**  
**(ASIAN OR PACIFIC ISLANDER MOTHERS)**

Characteristic	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of LBW births</b>	280	292	262	275	256	291	313	315	319	273	285
<b>Age of mother</b>											
≤19 years	5.4	5.1	5.0	1.5	1.2	1.7	1.0	1.9	2.2	1.8	0.7
≤30 years	52.1	58.6	64.9	66.2	64.1	61.5	63.3	63.5	69.3	66.7	69.5
<b>Marital status</b>											
Unmarried	18.9	18.2	18.3	12.4	14.1	15.1	13.7	17.1	17.9	13.2	16.5
<b>Mother's education</b>											
<9 years	3.2	4.1	3.8	3.6	4.3	2.7	3.2	2.9	3.1	1.5	3.5
<b>Prenatal care began</b>											
1st Trimester	84.3	83.9	87.8	86.9	70.3	72.9	74.4	74.0	70.2	76.2	70.2
3rd Trimester	2.9	2.1	0.4	3.6	4.7	3.8	2.9	2.5	4.1	5.1	3.5
No Care	1.4	2.7	0.8	0.7	3.5	2.7	2.9	2.5	4.7	1.8	2.5
<b>Prenatal visits</b>											
1-4	6.8	4.8	2.3	6.2	4.7	8.6	7.0	4.4	7.2	5.9	6.0
≥5	91.4	92.5	96.9	93.1	88.7	86.9	87.2	92.1	85.9	91.2	89.5
≥9	70.7	72.9	78.6	73.5	66.8	64.6	67.7	70.5	58.9	64.8	61.8
≥13	27.1	30.8	32.8	31.6	25.4	29.6	22.0	28.3	22.3	29.7	21.1
<b>Medical risks/</b>											
<b>Complications<sup>b</sup></b>	74.3	68.8	72.5	73.8	<b>54.7</b>	<b>56.0</b>	61.0	67.9	64.9	63.0	66.0
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	65.4	64.7	63.0	61.1	60.2	60.1	60.7	61.9	63.9	63.0	65.6
<b>Birth weight</b>											
<1,500 grams	16.4	12.7	11.5	13.5	15.2	13.1	15.3	11.7	11.9	11.7	11.2
<1,000 grams	7.9	6.2	5.3	6.2	6.6	6.5	8.6	6.0	5.3	6.2	4.9
<b>Child's sex</b>											
Male	45.0	46.9	52.7	46.5	49.2	48.8	45.4	46.0	44.2	53.5	49.5
Female	55.0	53.1	47.3	53.5	50.8	51.2	54.6	54.0	55.8	46.5	50.5
<b>Plurality</b>											
Multiple births	18.9	25.7	20.2	23.6	24.2	25.1	24.0	20.3	20.4	20.9	21.1
<b>Caesarean delivery</b>	45.4	51.4	44.3	53.1	47.7	51.5	47.0	50.8	48.3	44.7	51.2
<b>Place of delivery</b>											
Hospital <sup>d</sup>	100.0	99.7	100.0	100.0	100.0	100.0	99.7	99.7	99.7	98.5	99.6
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	1.1	0.3	2.7	2.2	12.1	12.0	8.6	12.4	9.4	15.4	13.3
<b>Previous live births</b>											
1 or more	49.6	55.5	53.1	56.4	46.9	54.6	50.8	47.6	52.7	52.0	53.0

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-16  
SINGLE AND PLURAL LIVE BIRTHS BY BIRTHWEIGHT, ARIZONA RESIDENTS, 2010-2020**

Weight in grams	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Under 1,000, total</b>	439	496	480	433	509	448	492	472	476	419	441
<b>Single</b>	346	379	383	332	384	358	380	375	383	319	341
<b>Plural</b>	93	117	97	101	125	90	112	97	93	100	100
<b>1,000-1,499, total</b>	505	505	506	494	509	523	519	492	509	483	438
<b>Single</b>	386	374	387	341	379	386	395	369	358	361	327
<b>Plural</b>	119	131	119	153	130	137	124	123	151	122	111
<b>1,500-1,999, total</b>	1,194	1,131	1,197	1,152	1,156	1,133	1,166	1,105	1,257	1,134	1,073
<b>Single</b>	823	794	814	830	803	793	808	784	837	795	758
<b>Plural</b>	371	337	383	322	353	340	358	321	420	339	315
<b>2,000-2,499, total</b>	4,017	3,817	3,763	3,770	3,895	3,988	4,009	4,040	3,864	3,793	3,698
<b>Single</b>	3,178	3,043	2,994	2,920	3,063	3,186	3,124	3,186	3,028	3,030	2,960
<b>Plural</b>	839	774	769	850	832	802	885	854	836	763	738
<b>2,500-3,999, total</b>	74,680	72,777	73,096	72,494	73,627	72,240	71,613	69,200	68,157	67,354	65,280
<b>Single</b>	73,596	71,741	72,085	71,377	72,449	71,109	70,450	67,940	67,032	66,337	64,270
<b>Plural</b>	1,084	1,036	1,011	1,117	1,178	1,131	1,163	1,260	1,125	1,017	1,010
<b>4,000 and over, total</b>	6,200†	6,450†	6,680†	6,540†	6,900†	6,630†	6,570†	6,310†	6,240†	5,950†	5,790†
<b>Single</b>	6,194	6,450	6,674	6,537	6,900	6,633	6,569	6,310	6,234	5,951	5,787
<b>Plural</b>	*	*	*	*	*	*	*	*	*	*	*
<b>All weights, total<sup>a</sup></b>	87,053	85,190	85,725	84,963	86,648	85,024	84,404	81,664	80,539	79,183	76,781
<b>Single</b>	84,535	82,793	83,342	82,415	84,014	82,501	81,752	79,005	77,909	76,837	74,501
<b>Plural</b>	2,510†	2,400†	2,380†	2,550†	2,630†	2,518	2,647	2,657	2,630	2,343	2,280

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Includes records with unknown weight and/or plurality.

**TABLE 1B-17  
RESIDENT BIRTHS BY MONTH OF OCCURRENCE, ARIZONA, 2010-2020**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>2010</b>	7,342	6,812	7,521	6,886	6,989	6,982	7,153	7,637	7,977	7,331	7,038	7,378	87,053 <sup>a</sup>
<b>Percent</b>	8.4	7.8	8.6	7.9	8.0	8.0	8.2	8.8	9.2	8.4	8.1	8.5	100.0
<b>2011</b>	7,127	6,500	7,254	6,498	6,678	7,086	7,222	7,688	7,750	7,361	6,987	7,039	85,190
<b>Percent</b>	8.4	7.6	8.5	7.6	7.8	8.3	8.5	9.0	9.1	8.6	8.2	8.3	100.0
<b>2012</b>	7,006	6,732	7,100	6,603	6,777	6,725	7,368	7,772	7,689	7,629	7,101	7,223	85,725
<b>Percent</b>	8.2	7.9	8.3	7.7	7.9	7.8	8.6	9.1	9.0	8.9	8.3	8.4	100.0
<b>2013</b>	7,090	6,414	7,083	6,694	6,681	6,685	7,337	7,436	7,538	7,515	7,130	7,360	84,963
<b>Percent</b>	8.3	7.5	8.3	7.9	7.9	7.9	8.6	8.8	8.9	8.8	8.4	8.7	100.0
<b>2014</b>	7,313	6,593	7,068	6,672	6,893	6,856	7,731	7,718	7,651	7,554	6,994	7,605	86,648
<b>Percent</b>	8.4	7.6	8.2	7.7	8.0	7.9	8.9	8.9	8.8	8.7	8.1	8.8	100.0
<b>2015</b>	7,169	6,660	7,175	6,613	6,814	6,770	7,030	7,372	7,685	7,487	6,940	7,309	85,024
<b>Percent</b>	8.4	7.8	8.4	7.8	8.0	8.0	8.3	8.7	9.0	8.8	8.2	8.6	100.0
<b>2016</b>	7,053	6,729	6,830	6,558	6,724	6,754	7,045	7,711	7,687	7,192	6,898	7,223	84,404
<b>Percent</b>	8.4	8.0	8.1	7.8	8.0	8.0	8.3	9.1	9.1	8.5	8.2	8.6	100.0
<b>2017</b>	6,931	6,147	6,774	6,285	6,507	6,613	6,964	7,402	7,200	7,299	6,791	6,751	81,664
<b>Percent</b>	8.5	7.5	8.3	7.7	8.0	8.1	8.5	9.1	8.8	8.9	8.3	8.3	100.0
<b>2018</b>	6,706	6,177	6,614	6,129	6,409	6,473	6,835	7,294	7,108	7,144	6,815	6,835	80,539
<b>Percent</b>	8.3	7.7	8.2	7.6	8.0	8.0	8.5	9.1	8.8	8.9	8.5	8.5	100.0
<b>2019</b>	6,811	6,070	6,651	6,078	6,267	6,154	6,940	7,192	6,858	6,872	6,577	6,713	79,183
<b>Percent</b>	8.6	7.7	8.4	7.7	7.9	7.8	8.8	9.1	8.7	8.7	8.3	8.5	100.0
<b>2020</b>	6,671	6,247	6,347	5,954	6,030	6,068	6,763	6,690	6,732	6,637	6,197	6,445	76,781
<b>Percent</b>	8.7	8.1	8.3	7.8	7.9	7.9	8.8	8.7	8.8	8.6	8.1	8.4	100.0

Note: <sup>a</sup> Includes 7 records where month of birth is missing.

**TABLE 1B-18  
BIRTHS BY DAY AND MONTH OF OCCURRENCE, ARIZONA RESIDENTS, 2020**

TOTAL	Month of birth											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<b>TOTAL</b>	76,781	6,671	6,347	5,954	6,030	6,068	6,763	6,690	6,732	6,637	6,197	6,445
<b>1</b>	2,530	208	169	225	216	208	220	216	242	265	167	220
<b>2</b>	2,553	220	178	209	161	196	226	172	235	252	244	231
<b>3</b>	2,686	222	229	265	143	222	219	214	256	200	250	237
<b>4</b>	2,516	194	234	236	184	238	189	234	217	187	204	243
<b>5</b>	2,428	161	231	219	161	201	181	218	208	220	226	176
<b>6</b>	2,492	218	205	244	209	186	204	236	178	231	222	178
<b>7</b>	2,553	236	234	189	231	127	217	268	177	238	213	215
<b>8</b>	2,536	236	200	164	220	196	236	199	232	239	181	191
<b>9</b>	2,455	226	154	211	204	230	229	143	252	207	204	220
<b>10</b>	2,591	243	214	222	224	219	233	209	259	183	221	232
<b>11</b>	2,495	200	240	234	186	195	195	210	243	160	237	227
<b>12</b>	2,462	158	251	197	211	236	166	236	214	219	235	185
<b>13</b>	2,476	236	236	210	203	173	224	232	183	218	203	161
<b>14</b>	2,641	234	243	175	227	159	245	236	244	237	190	234
<b>15</b>	2,545	270	173	156	197	222	256	218	235	234	172	201
<b>16</b>	2,551	226	166	222	213	202	246	164	275	205	241	240
<b>17</b>	2,588	254	227	208	170	209	243	198	255	174	206	244
<b>18</b>	2,457	196	240	214	175	190	189	228	232	158	218	214
<b>19</b>	2,368	153	226	232	144	191	159	216	214	231	231	167
<b>20</b>	2,640	231	251	219	203	203	227	256	163	237	231	187
<b>21</b>	2,536	227	243	176	184	159	219	238	224	230	188	231
<b>22</b>	2,556	234	199	161	217	178	234	192	252	213	192	254
<b>23</b>	2,486	216	164	194	211	238	227	180	237	217	213	195
<b>24</b>	2,596	228	218	235	188	230	221	258	266	210	231	158
<b>25</b>	2,350	185	237	241	161	226	200	225	216	166	202	134
<b>26</b>	2,346	163	217	208	147	220	170	242	191	218	176	183
<b>27</b>	2,492	221	225	228	210	184	244	229	166	234	172	165
<b>28</b>	2,533	217	227	149	213	160	226	236	222	235	186	230
<b>29</b>	2,522	239	177	144	238	243	209	202	210	228	145	270
<b>30</b>	2,364	211	222	213	177	238	254	165	234	222	196	232
<b>31</b>	1,437	242	194	167	255	220	169	190	234	222	196	232

**TABLE 1B-19  
LIVE BIRTHS BY MOTHER'S AGE AND FATHER'S AGE, ARIZONA, 2020**

Father's age group	Mother's age group										
	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known	TOTAL
<15	*	*	0	0	0	0	0	0	0	0	10†
15-17	*	186	69	12	0	0	0	0	0	0	270†
18-19	0	203	686	309	25	6	0	0	0	0	1,229
20-24	0	86	1,049	6,675	1,251	198	51	*	0	0	9,310†
25-29	0	12	157	4,409	10,323	2,022	300	44	*	*	17,270†
30-34	0	0	54	1,066	6,365	9,593	1,581	152	8	0	18,819
35-39	0	0	21	333	1,631	5,301	4,491	450	8	0	12,235
40-44	0	0	9	118	454	1,379	2,066	823	37	0	4,886
45-49	0	0	*	51	141	348	617	374	41	*	1,580†
50-54	0	0	*	19	47	136	168	109	20	0	500†
55+	0	0	0	14	30	64	86	66	19	0	279
Unknown	21	506	862	3,014	2,868	1,900	987	222	17	0	10,397
<b>TOTAL</b>	30†	1,000†	2,910†	16,020	23,135	20,947	10,347	2,240†	150†	0†	76,781

**TABLE 1B-20  
LIVE BIRTHS BY MOTHER'S RACE/ETHNICITY AND FATHER'S RACE/ETHNICITY, ARIZONA, 2020**

Father's race/ethnicity	Mother's race/ethnicity					TOTAL
	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	
White non-Hispanic	26,676	9,860	1,811	1,252	801	40,400
Hispanic or Latino	4,642	20,471	257	568	241	26,179
Black or African American	1,158	991	2,661	88	74	4,972
American Indian or Alaska Native	223	298	14	2,145	12	2,692
Asian or Pacific Islander	402	239	23	34	1,840	2,538
<b>TOTAL</b>	33,101	31,859	4,766	4,087	2,968	76,781

**TABLE 1B-21  
LIVE BIRTHS BY MOTHER'S AND FATHER'S EDUCATION, ARIZONA, 2020**

Father's education	Mother's education								TOTAL
	8th Grade or Less	Some High School	High School/ GED	Some College	Associate Degree	Bachelor's Degree	Post graduate Education	Un-known	
8th Grade or Less	719	464	522	203	127	56	26	7	2,124
Some High School	309	2,898	2,623	1,275	357	250	54	15	7,781
High School/ GED	252	2,286	9,030	4,387	1,547	1,512	407	32	19,453
Some College	86	655	2,795	5,971	1,604	2,387	833	23	14,354
Associate Degree	47	165	860	1,333	1,135	1,259	421	*	5,221
Bachelor's Degree	34	99	857	1,610	1,013	5,153	2,268	15	11,049
Postgraduate Education	12	30	207	477	349	2,270	2,521	6	5,872
Unknown	493	2,873	3,877	2,267	561	376	132	348	10,927
<b>TOTAL</b>	1,952	9,470	20,771	17,523	6,693	13,263	6,662	447	76,781

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; 447 cases were missing mother's education and 10,927 cases were missing father's education.



**TABLE 1B-22  
TOTAL BIRTHS AND RATIOS OF BIRTH BY MOTHER'S MARITAL STATUS<sup>a</sup>,  
AGE GROUP, AND RACE/ETHNICITY, ARIZONA, 2020**

			TOTAL	Mother's age group									
				<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un- known
All racial/ ethnic groups	Married	Count	41,375	0	19	284	4,904	12,911	14,352	7,302	1,502	101	0
		Percent	53.9%	0.0%	1.9%	9.8%	30.6%	55.8%	68.5%	70.6%	66.9%	66.4%	0.0%
	Unmarried	Count	34,527	28	974	2,621	11,002	9,985	6,328	2,876	683	30	0
		Percent	45.0%	100.0%	97.9%	90.0%	68.7%	43.2%	30.2%	27.8%	30.4%	19.7%	0.0%
	Unknown	Count	880†	0	*	6	114	239	267	169	59	21	*
		Percent	1.1%	0.0%	**	0.2%	0.7%	1.0%	1.3%	1.6%	2.6%	13.8%	**
	TOTAL	Count	76,780†	28	995	2,911	16,020	23,135	20,947	10,347	2,244	152	*
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**
White non- Hispanic	Married	Count	22,434	0	7	92	2,270	6,809	8,256	4,162	786	52	0
		Percent	67.8%	0.0%	4.2%	12.7%	42.1%	68.7%	79.1%	78.8%	72.3%	58.4%	0.0%
	Unmarried	Count	10,290†	*	159	630	3,090	3,023	2,064	1,044	266	16	0
		Percent	31.1%	**	95.8%	87.0%	57.3%	30.5%	19.8%	19.8%	24.5%	18.0%	0.0%
	Unknown	Count	370†	0	0	*	37	79	119	79	35	21	*
		Percent	1.1%	0.0%	0.0%	**	0.7%	0.8%	1.1%	1.5%	3.2%	23.6%	**
	TOTAL	Count	33,100†	*	166	724	5,397	9,911	10,439	5,285	1,087	89	*
		Percent	100.0%	**	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**
Hispanic or Latino	Married	Count	13,937	0	11	173	2,214	4,790	4,176	2,088	458	27	0
		Percent	43.7%	0.0%	1.7%	9.9%	27.0%	48.5%	58.0%	62.1%	59.5%	71.1%	0.0%
	Unmarried	Count	17,533	22	639	1,564	5,919	4,954	2,915	1,209	300	11	0
		Percent	55.0%	100.0%	98.3%	89.8%	72.2%	50.2%	40.5%	35.9%	39.0%	28.9%	0.0%
	Unknown	Count	390†	0	0	*	66	130	110	67	12	0	0
		Percent	1.2%	0.0%	0.0%	**	0.8%	1.3%	1.5%	2.0%	1.6%	0.0%	0.0%
	TOTAL	Count	31,859	22	650	1,741	8,199	9,874	7,201	3,364	770	38	0
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Black or African American	Married	Count	1,713	0	0	13	182	471	607	340	86	14	0
		Percent	35.9%	0.0%	0.0%	6.5%	16.8%	33.0%	50.3%	54.3%	59.3%	82.4%	0.0%
	Unmarried	Count	3,000†	*	54	187	896	947	581	276	52	*	0
		Percent	62.9%	**	96.4%	93.5%	82.5%	66.3%	48.2%	44.1%	35.9%	**	0.0%
	Unknown	Count	60†	0	*	0	8	11	18	10	7	0	0
		Percent	1.2%	0.0%	**	0.0%	0.7%	0.8%	1.5%	1.6%	4.8%	0.0%	0.0%
	TOTAL	Count	4,770†	*	56	200	1,086	1,429	1,206	626	145	17	0
		Percent	100.0%	**	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
American Indian or Alaska Native	Married	Count	830†	0	0	*	110	235	285	150	38	*	0
		Percent	20.2%	0.0%	0.0%	**	10.1%	20.3%	29.1%	35.1%	41.8%	**	0.0%
	Unmarried	Count	3,220†	*	112	221	981	904	678	268	49	0	0
		Percent	78.7%	**	100.0%	97.8%	89.8%	78.3%	69.3%	62.8%	53.8%	0.0%	0.0%
	Unknown	Count	50†	0	0	0	*	16	15	9	*	0	0
		Percent	1.1%	0.0%	0.0%	0.0%	**	1.4%	1.5%	2.1%	**	0.0%	0.0%
	TOTAL	Count	4,090†	*	112	226	1,092	1,155	978	427	91	*	0
		Percent	100.0%	**	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**	0.0%
Asian or Pacific Islander	Married	Count	2,470†	0	*	*	128	606	1,028	562	134	6	0
		Percent	83.1%	0.0%	**	**	52.0%	79.1%	91.5%	87.1%	88.7%	100.0%	0.0%
	Unmarried	Count	487	0	10	19	116	157	90	79	16	0	0
		Percent	16.4%	0.0%	90.9%	95.0%	47.2%	20.5%	8.0%	12.2%	10.6%	0.0%	0.0%
	Unknown	Count	20†	0	0	0	*	*	*	*	*	0	0
		Percent	0.5%	0.0%	0.0%	0.0%	**	**	**	**	**	0.0%	0.0%
	TOTAL	Count	2,968	0	11	20	246	766	1,123	645	151	6	0
		Percent	100.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%

Notes: \* Cell suppressed due to non-zero count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced.

**TABLE 1B-23  
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND NUMBER OF  
PREVIOUS LIVE BIRTHS, ARIZONA, 2020**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un- known
<b>All racial/ ethnic groups</b>	<b>TOTAL</b>	76,781	28	1,000†	2,910†	16,020	23,135	20,947	10,347	2,244	152	0†
	<b>None</b>	28,348	28	939	2,449	8,704	8,164	5,582	2,063	391	28	0
	<b>1</b>	23,087	0	55	416	5,050	7,628	6,421	2,962	527	28	0
	<b>2</b>	13,400†	0	*	41	1,700	4,439	4,475	2,253	456	38	0
	<b>3</b>	6,650†	0	0	*	442	1,902	2,535	1,431	316	17	*
	<b>4 or more</b>	5,290†	0	0	*	123	1,000	1,931	1,637	553	40	*
	<b>Unknown</b>	10†	0	0	*	*	*	*	*	*	*	0
<b>White non- Hispanic</b>	<b>TOTAL</b>	33,100†	0†	166	720†	5,397	9,911	10,439	5,285	1,087	89	0†
	<b>None</b>	13,050†	*	158	641	3,139	4,243	3,321	1,287	243	17	0
	<b>1</b>	10,470	0	8	76	1,638	3,231	3,494	1,709	299	15	0
	<b>2</b>	5,430†	0	0	*	480	1,619	1,965	1,111	215	30	0
	<b>3</b>	2,421	0	0	0	115	566	1,031	571	130	7	*
	<b>4 or more</b>	1,730†	0	0	*	24	250	628	606	199	19	*
	<b>Unknown</b>	10†	0	0	*	*	*	0	*	*	*	0
<b>Hispanic or Latino</b>	<b>TOTAL</b>	31,859	22	650	1,740†	8,199	9,874	7,201	3,364	770	40†	0
	<b>None</b>	11,217	22	619	1,442	4,336	2,842	1,411	468	71	6	0
	<b>1</b>	9,205	0	31	272	2,654	3,378	1,957	766	140	7	0
	<b>2</b>	6,010†	0	0	26	907	2,181	1,905	820	169	*	0
	<b>3</b>	3,070†	0	0	*	233	981	1,099	617	134	7	0
	<b>4 or more</b>	2,351	0	0	0	69	492	828	693	256	13	0
	<b>Unknown</b>	0†	0	0	0	0	0	*	0	0	0	0
<b>Black or African American</b>	<b>TOTAL</b>	4,770†	0†	60†	200†	1,086	1,429	1,206	626	145	20†	0
	<b>None</b>	1,550†	*	50	165	557	410	245	99	21	*	0
	<b>1</b>	1,310†	0	*	28	337	451	318	139	24	*	0
	<b>2</b>	840†	0	*	6	135	274	272	127	26	*	0
	<b>3</b>	520†	0	0	0	45	171	174	104	26	*	0
	<b>4 or more</b>	540†	0	0	*	12	123	196	157	48	6	0
	<b>Unknown</b>	0†	0	0	0	0	0	*	0	0	0	0
<b>American Indian or Alaska Native</b>	<b>TOTAL</b>	4,090†	0†	112	230†	1,092	1,155	978	427	91	0†	0
	<b>None</b>	1,230†	*	101	188	524	243	126	36	7	0	0
	<b>1</b>	999	0	11	33	351	337	196	59	12	0	0
	<b>2</b>	770†	0	0	*	157	285	222	83	19	0	0
	<b>3</b>	510†	0	0	*	45	163	183	95	17	*	0
	<b>4 or more</b>	580†	0	0	0	15	127	250	154	36	*	0
	<b>Unknown</b>	0†	0	0	0	0	0	*	0	0	0	0
<b>Asian or Pacific Islander</b>	<b>TOTAL</b>	2,968	0	11	20	250†	766	1,123	645	151	10†	0
	<b>None</b>	1,299	0	11	13	148	426	479	173	49	0	0
	<b>1</b>	1,110†	0	0	7	70	231	456	289	52	*	0
	<b>2</b>	350†	0	0	0	21	80	111	112	27	*	0
	<b>3</b>	130†	0	0	0	*	21	48	44	9	*	0
	<b>4 or more</b>	80†	0	0	0	*	8	29	27	14	*	0
	<b>Unknown</b>	0	0	0	0	0	0	0	0	0	0	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; totals include records with unknown number of previous live births.

**TABLE 1B-24  
CHANGES FROM 2010 TO 2020 IN SELECTED CHARACTERISTICS OF NEWBORNS AND ARIZONA WOMEN GIVING BIRTH  
BY AREA AND RACE/ETHNICITY**

Characteristics	Urban <sup>a</sup>		Rural		White non-Hispanic		Hispanic or Latino		Black or African American		American Indian or Alaska Native		Asian or Pacific Islander								
	2010	2020	% Change	2010	2020	% Change	2010	2020	% Change	2010	2020	% Change	2010	2020	% Change						
<b>Number of births<sup>b</sup></b>	74,624	66,845	<b>-10.4</b>	12,429	9,881	<b>-20.5</b>	38,777	33,101	<b>-14.6</b>	34,333	31,859	<b>-7.2</b>	4,328	4,766	<b>10.1</b>	5,815	4,087	<b>-29.7</b>	3,293	2,968	<b>-9.9</b>
<b>Per 100 births:</b>																					
<b>Teenage mother<sup>c</sup></b>	10.3	4.9	<b>-52.4</b>	13.9	6.7	<b>-51.8</b>	6.2	2.7	<b>-56.5</b>	15.6	7.6	<b>-51.3</b>	13.0	5.4	<b>-58.5</b>	17.0	8.4	<b>-50.6</b>	3.1	1.0	<b>-67.7</b>
<b>Unwed mother<sup>d</sup></b>	43.6	44.0	<b>0.9</b>	51.2	51.6	<b>0.8</b>	29.9	31.1	<b>4.0</b>	56.2	55.0	<b>-2.1</b>	63.1	62.9	<b>-0.3</b>	77.7	78.7	<b>1.3</b>	17.4	16.4	<b>-5.7</b>
<b>Early prenatal care<sup>e</sup></b>	83.1	69.4	<b>-16.5</b>	74.8	64.3	<b>-14.0</b>	88.2	75.1	<b>-14.9</b>	76.6	64.4	<b>-15.9</b>	81.6	60.3	<b>-26.1</b>	69.4	57.1	<b>-17.7</b>	88.1	74.3	<b>-15.7</b>
<b>0-4 prenatal visits</b>	4.5	7.5	<b>66.7</b>	7.7	10.2	<b>32.5</b>	2.3	5.1	<b>121.7</b>	6.8	9.5	<b>39.7</b>	5.8	10.0	<b>72.4</b>	11.0	16.3	<b>48.2</b>	3.1	5.0	<b>61.3</b>
<b>C-Section</b>	28.0	28.8	<b>2.9</b>	25.2	25.7	<b>2.0</b>	29.1	28.3	<b>-2.7</b>	25.9	27.3	<b>5.4</b>	39.7	34.6	<b>-12.8</b>	22.9	26.8	<b>17.0</b>	32.8	33.6	<b>2.4</b>
<b>LBW rate</b>	7.0	7.3	<b>4.3</b>	7.4	7.7	<b>4.1</b>	6.7	6.8	<b>1.5</b>	6.8	7.0	<b>2.9</b>	11.4	12.8	<b>12.3</b>	7.0	7.2	<b>2.9</b>	8.5	9.6	<b>12.9</b>
<b>Newborn intensive care</b>	6.5	7.9	<b>21.5</b>	4.3	7.4	<b>72.1</b>	6.3	7.5	<b>19.0</b>	5.8	7.6	<b>31.0</b>	8.1	10.5	<b>29.6</b>	5.6	8.3	<b>48.2</b>	6.0	8.8	<b>46.7</b>
<b>Preterm births (&lt; 37 weeks)</b>	9.7	9.4	<b>-3.1</b>	9.4	9.5	<b>1.1</b>	9.2	8.9	<b>-3.3</b>	9.5	9.3	<b>-2.1</b>	12.3	13.1	<b>6.5</b>	10.6	10.8	<b>1.9</b>	9.9	9.3	<b>-6.1</b>
<b>Births paid for by the AHCCCS<sup>f</sup></b>	53.1	46.2	<b>-13.0</b>	54.4	57.8	<b>6.3</b>	26.0	31.8	<b>22.3</b>	72.6	61.1	<b>-15.8</b>	67.1	64.8	<b>-3.4</b>	57.0	69.5	<b>21.9</b>	29.9	22.9	<b>-23.5</b>

Notes: <sup>a</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; <sup>b</sup> Per 100 live births; <sup>c</sup> Less than 20 years old; <sup>d</sup> Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; <sup>e</sup> Entered care in first trimester of pregnancy; <sup>f</sup> The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.

**TABLE 1B-25  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,  
ARIZONA, 2020**

	TOTAL	Urban <sup>a</sup>	Rural	Un- known	Mother's race/ethnicity				
					White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
<b>TOTAL</b>	76,781	66,845	9,880†	60†	33,100†	31,859	4,770†	4,090†	2,968
<b>Mother's age group</b>									
<15	30†	24	*	0	*	22	*	*	0
15-17	995	823	172	0	166	650	56	112	11
18-19	2,911	2,426	485	0	724	1,741	200	226	20
20-24	16,020	13,494	2,521	*	5,397	8,199	1,086	1,092	246
25-29	23,135	20,140	2,987	8	9,911	9,874	1,429	1,155	766
30-34	20,947	18,573	2,363	11	10,439	7,201	1,206	978	1,123
35-39	10,347	9,262	1,074	11	5,285	3,364	626	427	645
40-44	2,244	1,980	252	12	1,087	770	145	91	151
45+	150†	123	23	6	89	38	17	*	6
Unknown	0†	0	0	*	*	0	0	0	0
<b>Payer for birth</b>									
AHCCCS	36,620	30,872	5,709	39	10,532	19,481	3,089	2,839	679
IHS	620†	380	240	0	50	49	0	520	*
Private insurance	32,652	29,682	2,964	6	19,346	9,296	1,375	603	2,032
Self-pay	4,091	3,486	597	8	2,001	1,713	139	75	163
Unknown	2,798	2,425	371	*	1,172	1,320	163	50	93
<b>Mother's education</b>									
8th Grade or Less	1,952	1,770	182	0	226	1,431	172	56	67
Some High School	9,470	7,973	1,496	*	2,062	5,753	574	961	120
High School / GED	20,771	17,606	3,163	*	6,688	10,686	1,526	1,484	387
Some College	17,523	15,014	2,505	*	7,723	7,198	1,217	1,037	348
Associate Degree	6,693	5,739	952	*	3,232	2,574	391	309	187
Bachelor's Degree	13,263	12,221	1,039	*	8,521	3,073	522	172	975
Postgraduate Education	6,662	6,160	502	0	4,357	1,046	328	58	873
Unknown	447	362	42	43	292	98	36	10	11
<b>Marital status</b>									
Married	41,375	36,711	4,664	0	22,434	13,937	1,713	825	2,466
Unmarried <sup>b</sup>	34,527	29,428	5,098	*	10,293	17,533	2,997	3,217	487
Unknown	879	706	119	54	374	389	56	45	15
<b>Weight gain</b>									
Inadequate	16,352	14,212	2,120	20	6,064	7,371	1,143	927	847
Adequate	22,989	20,030	2,946	13	9,947	9,623	1,255	1,113	1,051
Excessive	36,441	31,721	4,701	19	16,677	14,469	2,277	1,973	1,045
Unknown	999	882	114	*	413	396	91	74	25
<b>Smoking during pregnancy</b>									
Non-smoker	73,299	64,558	8,718	23	30,901	31,166	4,517	3,779	2,936
Light smoker (less than 10 cigarettes per day)	1,641	1,217	414	10	975	402	153	99	12
Heavy smoker (10 or more cigarettes per day)	1,150†	811	332	7	902	164	62	18	*
Unknown	691	259	417	15	323	127	34	191	16
<b>Length of gestation</b>									
<37 weeks	7,256	6,308	937	11	2,938	2,975	626	442	275
37-41 weeks	69,234	60,316	8,875	43	29,994	28,809	4,125	3,619	2,687
42+ weeks	160†	127	28	0	90	44	9	7	*
Unknown	140†	94	41	19	79	31	6	19	*
<b>Weight at birth</b>									
<1,000 grams	441	378	62	*	160	174	69	24	14
1,000-1,499	438	375	63	0	174	164	55	27	18
1,500-2,499	4,771	4,133	633	*	1,914	1,877	484	243	253
2,500-3,999	65,280	56,734	8,498	48	27,940	27,433	3,913	3,441	2,553
4,000+ grams	5,788	5,179	608	*	2,874	2,199	236	350	129
Unknown	60†	46	17	0	39	12	9	*	*

**TABLE 1B-25 (continued)**  
**SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,**  
**ARIZONA, 2020**

	TOTAL	Urban <sup>a</sup>	Rural	Un- known	Mother's race/ethnicity					
					White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	
<b>Prenatal care</b>										
No care	1,882	1,546	322	14	505	1,023	130	174	50	
1st trimester	52,793	46,419	6,358	16	24,856	20,522	2,876	2,335	2,204	
2nd trimester	13,943	11,990	1,938	15	4,855	6,539	1,137	923	489	
3rd trimester	5,115	4,360	751	*	1,555	2,576	388	443	153	
Unknown	3,048	2,530	512	6	1,330	1,199	235	212	72	
<b>Prenatal visits</b>										
No visits	1,882	1,546	322	14	505	1,023	130	174	50	
1-4 visits	4,130	3,443	682	*	1,191	2,001	348	493	97	
5-8 visits	13,989	11,967	2,008	14	4,900	6,432	1,070	1,093	494	
9-12 visits	32,839	28,774	4,054	11	15,001	13,288	1,797	1,409	1,344	
13+ visits	22,421	19,906	2,510	*	10,761	8,618	1,301	800	941	
Unknown	1,520	1,209	305	6	743	497	120	118	42	
<b>Newborn intensive care</b>										
Yes	6,006	5,261	730	15	2,496	2,411	501	338	260	
No	70,775	61,584	9,151	40	30,605	29,448	4,265	3,749	2,708	
<b>Method of delivery</b>										
Vaginal	52,858	45,929	6,897	32	22,751	22,364	2,983	2,922	1,838	
C-Section	21,801	19,241	2,541	19	9,377	8,684	1,647	1,095	998	
Forceps	292	254	38	0	145	98	20	8	21	
Vacuum	1,830	1,421	405	*	828	713	116	62	111	
Unknown	0	0	0	0	0	0	0	0	0	
<b>Total</b>	40,055	34,990	5,050	15	16,879	17,194	2,361	2,179	1,442	
<b>Obstetric procedures<sup>c</sup></b>										
Induction of labor	24,362	21,090	3,263	9	10,716	9,919	1,513	1,394	820	
Augmentation of labor	22,538	20,353	2,177	8	8,694	10,554	1,325	1,115	850	
Cervical cerclage	170†	154	20	0	58	72	28	*	14	
Tocolysis	419	329	89	*	158	179	43	27	12	
External cephalic version successful	80†	67	12	0	35	32	*	6	*	
External cephalic version failed	130†	98	28	0	56	42	*	19	7	
<b>Total</b>	21,243	18,531	2,698	14	7,718	9,410	1,532	1,761	822	
<b>Births with medical risk factors<sup>c</sup></b>										
Pre-existing diabetes	938	782	156	0	252	427	71	151	37	
Gestational diabetes	7,327	6,403	922	*	2,422	3,285	379	769	472	
Pre-existing hypertension	1,234	1,068	164	*	454	506	153	96	25	
Gestational hypertension	6,814	5,969	844	*	2,783	2,775	520	549	187	
Eclampsia	100†	87	11	0	30	49	10	*	*	
Previous preterm birth	3,292	2,826	465	*	1,267	1,494	254	198	79	
Other previous poor pregnancy outcome	3,824	3,505	314	*	1,327	1,893	309	198	97	
Gonorrhea	280†	229	49	*	69	116	46	46	*	
Syphilis	210†	171	43	0	49	89	23	50	*	
Chlamydia	1,984	1,658	322	*	425	1,088	176	271	24	
Hepatitis B	100†	93	9	0	28	19	19	*	33	
Hepatitis C	200†	165	36	0	131	51	7	10	*	

**TABLE 1B-25 (continued)**  
**SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,**  
**ARIZONA, 2020**

	TOTAL	Urban <sup>a</sup>	Rural	Un- known	Mother's race/ethnicity						
					White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander		
<b>Births with complications of labor and delivery<sup>c</sup></b>											
Total	23,556	20,941	2,599	16	9,841	9,843	1,570	1,316	986		
Premature rupture of the membranes	4,015	3,554	461	0	1,520	1,828	249	276	142		
Precipitous labor	4,910	4,319	586	*	2,410	1,701	265	327	207		
Prolonged labor	2,144	1,867	277	0	848	936	148	134	78		
Breech presentation	3,033	2,667	364	*	1,441	1,147	177	141	127		
Chorioamnionitis	1,442	1,324	118	0	427	787	75	54	99		
Meconium staining of the amniotic fluid	5,548	5,042	502	*	2,021	2,611	405	301	210		
Fetal intolerance	6,695	6,047	645	*	2,650	2,872	597	271	305		
Maternal transfusion	507	422	83	*	193	181	38	74	21		
Third or fourth degree perineal laceration	396	334	62	0	165	135	14	17	65		
Ruptured uterus	40†	33	*	0	8	15	7	*	*		
Unplanned Hysterectomy	30†	29	*	0	18	11	*	0	*		
Admission to intensive care unit	127	107	18	*	46	42	16	12	11		
Unplanned surgery following delivery	172	141	31	0	73	57	13	18	11		
<b>Total</b>	<b>3,469</b>	<b>2,805</b>	<b>655</b>	<b>9</b>	<b>1,542</b>	<b>1,280</b>	<b>282</b>	<b>218</b>	<b>147</b>		
<b>Abnormal conditions of the newborn<sup>c</sup></b>											
Assisted ventilation immediately after delivery	2,532	2,036	488	8	1,184	898	204	147	99		
Assisted ventilation for more than 6 hours	1,603	1,354	245	*	727	593	135	85	63		
Surfactant replacement therapy	316	273	42	*	134	125	32	13	12		
Suspected neonatal sepsis	1,555	1,308	244	*	619	637	130	100	69		
Seizure or serious neurologic dysfunction	30†	24	9	0	16	14	*	*	0		
Significant birth injury	60†	44	18	*	24	25	6	*	*		
<b>Total</b>	<b>303</b>	<b>244</b>	<b>59</b>	<b>0</b>	<b>125</b>	<b>134</b>	<b>10</b>	<b>26</b>	<b>8</b>		
<b>Congenital anomalies of the newborn<sup>c</sup></b>											
Anencephalus	10†	*	*	0	*	*	0	*	0		
Spina bifida / Meningocele	10†	10	*	0	7	*	0	0	0		
Cyanotic congenital heart disease	40†	42	*	0	22	16	*	*	0		
Congenital diaphragmatic hernia	0†	*	*	0	0	*	0	0	0		
Omphalocele / Gastroschisis	30†	25	*	0	8	11	*	*	*		
Limb reduction defect	20†	13	*	0	*	10	0	*	0		
Cleft lip / palate	70†	51	14	0	23	30	*	7	*		
Down syndrome	50†	40	*	0	21	19	*	*	0		
Suspected chromosomal disorder	50†	45	6	0	18	24	*	*	*		
Hypospadias	20†	14	*	0	*	11	0	0	*		
<b>Unknown congenital anomalies</b>	<b>40†</b>	<b>25</b>	<b>18</b>	<b>0</b>	<b>23</b>	<b>15</b>	<b>*</b>	<b>*</b>	<b>*</b>		

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; a Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see Technical Notes for more information; <sup>b</sup> Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; <sup>c</sup> Total birth where an obstetric procedure; medical risk factor; complication of labor and delivery; abnormal condition of the newborn; or a congenital anomaly of the newborn was identified.

**TABLE 1B-26  
CHANGES FROM 2010 TO 2020 IN SELECTED CHARACTERISTICS OF NEWBORNS AND ARIZONA WOMEN GIVING BIRTH  
WHICH DIFFER BY PAYER FOR THE DELIVERY**

Characteristics	AHCCCS <sup>a</sup>		Indian Health Service		Private Health Insurance		Self-pay		
	2010	2020	% Change	2010	2020	% Change	2010	2020	% Change
<b>Number of births<sup>b</sup></b>	46,393	36,620	<b>-21.1</b>	1,740	620	<b>-64.4</b>	35,681	4,091	<b>58.1</b>
<b>Per 100 births:</b>									
<b>Teenage mother<sup>c</sup></b>	17.0	8.7	<b>-48.8</b>	18.0	11.9	<b>-33.9</b>	2.6	1.3	<b>-50.0</b>
<b>Unwed mother<sup>d</sup></b>	65.4	68.4	<b>4.6</b>	80.4	78.5	<b>-2.4</b>	16.7	21.9	<b>31.1</b>
<b>Early prenatal care<sup>e</sup></b>	75.6	61.1	<b>-19.2</b>	61.4	51.8	<b>-15.6</b>	92.8	79.4	<b>-14.4</b>
<b>0-4 prenatal visits</b>	6.6	10.9	<b>65.2</b>	12.9	23.2	<b>79.8</b>	1.2	3.5	<b>191.7</b>
<b>C-Section<sup>f</sup></b>	25.3	27.9	<b>10.3</b>	19.7	28.7	<b>45.7</b>	31.9	30.4	<b>-4.7</b>
<b>LBW rate</b>	7.5	8.1	<b>8.0</b>	5.8	7.6	<b>31.0</b>	6.7	6.9	<b>3.0</b>
<b>Newborn intensive care</b>	6.3	8.7	<b>38.1</b>	3.4	9.0	<b>164.7</b>	6.3	6.9	<b>9.5</b>
<b>Preterm birth &lt; 37 weeks</b>	9.9	10.4	<b>5.1</b>	7.8	11.8	<b>51.3</b>	9.4	8.8	<b>-6.4</b>

Notes: <sup>a</sup> The Arizona Health Care Cost Containment System is the State's Medicaid program; <sup>b</sup> Per 100 live births; <sup>c</sup> Less than 20 years old; <sup>d</sup> Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; <sup>e</sup> Entered care in first trimester of pregnancy; <sup>f</sup> C-section includes primary and repeat.

**TABLE 1B-27  
PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2020**

	TOTAL	Payer for birth				
		AHCCCS <sup>a</sup>	IHS	Private Insurance	Self-pay	Unknown
<b>TOTAL</b>	76,781	36,620	620†	32,650†	4,090†	2,798
<b>Mother's age group</b>						
<15	30†	23	*	*	*	0
15-17	995	809	26	98	36	26
18-19	2,911	2,368	47	339	93	64
20-24	16,020	10,585	168	3,917	765	585
25-29	23,135	11,063	153	9,770	1,284	865
30-34	20,947	7,494	153	11,392	1,140	768
35-39	10,347	3,412	64	5,866	615	390
40-44	2,244	810	8	1,190	142	94
45+	152	54	0	77	15	6
Unknown	0†	*	0	0	0	0
<b>Mother's race/ethnicity</b>						
White non-Hispanic	33,101	10,532	50	19,346	2,001	1,172
Hispanic or Latino	31,859	19,481	49	9,296	1,713	1,320
Black or African American	4,766	3,089	0	1,375	139	163
American Indian or Alaska Native	4,087	2,839	520	603	75	50
Asian or Pacific Islander	2,970†	679	*	2,032	163	93
8th Grade or Less	1,952	1,428	11	119	144	250
Some High School	9,470	7,861	173	823	331	282
High School / GED	20,771	13,808	215	5,195	969	584
Some College	17,523	8,450	137	7,385	868	683
Associate Degree	6,693	2,515	46	3,442	417	273
Bachelor's Degree	13,263	1,841	29	9,919	993	481
Postgraduate Education	6,662	424	6	5,676	334	222
Unknown	450†	293	*	93	35	23
<b>Marital status</b>						
Married	41,375	10,981	128	25,339	2,927	2,000
Unmarried <sup>b</sup>	34,527	25,041	487	7,151	1,095	753
Unknown	880†	598	*	162	69	45
<b>Weight gain</b>						
Inadequate	16,352	8,421	150	6,202	944	635
Adequate	22,989	10,370	154	10,263	1,325	877
Excessive	36,441	17,301	300	15,860	1,750	1,230
Unknown	999	528	16	327	72	56
<b>Smoking during pregnancy</b>						
Non-smoker	73,299	34,086	571	32,054	3,862	2,726
Light smoker (less than 10 cigarettes per day)	1,641	1,315	17	238	43	28
Heavy smoker (10 or more cigarettes per day)	1,150†	930	*	164	28	26
Unknown	691	289	30	196	158	18
<b>Length of gestation</b>						
<37 weeks	7,256	3,804	73	2,864	259	256
37-41 weeks	69,234	32,689	542	29,706	3,775	2,522
42+ weeks	160†	60	*	58	27	9
Unknown	140†	67	*	24	30	11
<b>Weight at birth</b>						
<1,000 grams	440†	243	*	155	24	15
1,000-1,499	440†	239	*	168	14	15
1,500-2,499	4,771	2,493	41	1,915	170	152
2,500-3,999	65,280	31,124	512	27,771	3,490	2,383
4,000+ grams	5,788	2,507	61	2,631	363	226
Unknown	63	14	0	12	30	7



**TABLE 1B-27 (continued)  
PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2020**

	TOTAL	Payer for birth				
		AHCCCS <sup>a</sup>	IHS	Private Insurance	Self-pay	Unknown
<b>Prenatal care</b>						
No care	1,882	1,237	38	274	277	56
1st trimester	52,793	22,382	321	25,926	2,426	1,738
2nd trimester	13,943	8,192	136	4,119	833	663
3rd trimester	5,115	3,193	91	1,215	363	253
Unknown	3,048	1,616	34	1,118	192	88
<b>Prenatal visits</b>						
No visits	1,882	1,237	38	274	277	56
1-4 visits	4,130	2,765	106	854	272	133
5-8 visits	13,989	8,141	181	4,444	714	509
9-12 visits	32,839	14,538	172	15,297	1,655	1,177
13+ visits	22,421	9,248	102	11,164	1,046	861
Unknown	1,520	691	21	619	127	62
<b>Newborn intensive care</b>						
Yes	6,006	3,198	56	2,262	234	256
No	70,775	33,422	564	30,390	3,857	2,542
<b>Method of delivery</b>						
Vaginal	52,858	25,404	428	21,787	3,186	2,053
C-Section	21,801	10,226	178	9,934	788	675
Forceps	290†	113	*	151	12	12
Vacuum	1,830	877	10	780	105	58
Unknown	0	0	0	0	0	0
<b>Obstetric procedures<sup>c</sup></b>						
Total	40,055	19,320	337	17,042	1,662	1,694
Induction of labor	24,362	11,723	212	10,528	946	953
Augmentation of labor	22,538	10,898	177	9,331	1,014	1,118
Cervical cerclage	170†	84	0	79	*	6
Tocolysis	419	217	11	131	19	41
External cephalic version successful	80†	31	*	35	*	7
External cephalic version failed	130†	46	*	58	7	13
Total	21,243	11,128	280	8,146	765	924
<b>Births with medical risk factors<sup>c</sup></b>						
Pre-existing diabetes	938	505	27	326	30	50
Gestational diabetes	7,327	3,549	105	3,139	240	294
Pre-existing hypertension	1,234	623	18	483	32	78
Gestational hypertension	6,814	3,300	104	2,830	249	331
Eclampsia	100†	63	*	28	6	0
Previous preterm birth	3,292	1,918	25	1,043	126	180
Other previous poor pregnancy outcome	3,824	2,085	29	1,392	132	186
Gonorrhea	280†	232	6	33	*	7
Syphilis	214	177	8	16	8	*
Chlamydia	1,984	1,484	51	308	66	75
Hepatitis B	100†	53	*	37	*	8
Hepatitis C	200†	164	*	25	*	*

**TABLE 1B-27 (continued)**  
**PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2020**

	TOTAL	Payer for birth				
		AHCCCS <sup>a</sup>	IHS	Private Insurance	Self-pay	Unknown
<b>Births with complications of labor and delivery<sup>c</sup></b>						
Total	23,556	10,889	206	10,238	1,174	1,049
Premature rupture of the membranes	4,015	1,830	50	1,692	200	243
Precipitous labor	4,910	2,141	27	2,255	290	197
Prolonged labor	2,144	944	26	960	116	98
Breech presentation	3,033	1,325	22	1,453	130	103
Chorioamnionitis	1,442	667	10	615	80	70
Meconium staining of the amniotic fluid	5,548	2,885	53	2,113	279	218
Fetal intolerance	6,695	3,122	63	2,889	270	351
Maternal transfusion	507	264	16	172	28	27
Third or fourth degree perineal laceration	400†	121	*	223	22	28
Ruptured uterus	38	24	0	10	0	*
Unplanned Hysterectomy	34	13	0	19	0	*
Admission to intensive care unit	130†	71	*	43	8	*
Unplanned surgery following delivery	170†	73	*	69	12	14
<b>Total</b>	<b>3,469</b>	<b>1,779</b>	<b>37</b>	<b>1,372</b>	<b>144</b>	<b>137</b>
<b>Abnormal conditions of the newborn<sup>c</sup></b>						
Assisted ventilation immediately after delivery	2,532	1,281	26	1,032	93	100
Assisted ventilation for more than 6 hours	1,603	832	13	636	56	66
Surfactant replacement therapy	320†	155	*	132	14	14
Suspected neonatal sepsis	1,555	825	20	572	76	62
Seizure or serious neurologic dysfunction	30†	18	0	8	*	6
Significant birth injury	60†	24	*	32	*	*
<b>Total</b>	<b>300†</b>	<b>157</b>	<b>3</b>	<b>111</b>	<b>14</b>	<b>18</b>
<b>Congenital anomalies of the newborn<sup>c</sup></b>						
Anencephalus	10†	*	0	*	0	*
Spina bifida / Meningocele	10†	7	0	*	0	0
Cyanotic congenital heart disease	40†	24	0	17	*	*
Congenital diaphragmatic hernia	0†	*	0	*	0	0
Omphalocele / Gastroschisis	30†	21	*	*	0	0
Limb reduction defect	20†	7	0	7	*	*
Cleft lip / palate	70†	41	0	17	*	*
Down syndrome	50†	16	0	22	*	*
Suspected chromosomal disorder	50†	18	*	24	*	*
Hypospadias	20†	6	0	8	*	*
<b>Unknown congenital anomalies</b>	<b>40†</b>	<b>22</b>	<b>*</b>	<b>14</b>	<b>*</b>	<b>*</b>

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program; <sup>b</sup> Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; <sup>c</sup> Total birth where an obstetric procedure; medical risk factor; complication of labor and delivery; abnormal condition of the newborn; or a congenital anomaly of the newborn was identified.

**TABLE 1B-28  
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND PARTY PAYING FOR THE DELIVERY,  
ARIZONA, 2020**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known
<b>All racial/ethnic groups</b>	<b>AHCCCS</b>	36,620	23	809	2,368	10,585	11,063	7,494	3,412	810	54	*
	<b>IHS</b>	620†	*	26	47	168	153	153	64	8	0	0
	<b>Private insurance</b>	32,650†	*	98	339	3,917	9,770	11,392	5,866	1,190	77	0
	<b>Self-pay</b>	4,090†	*	36	93	765	1,284	1,140	615	142	15	0
	<b>Unknown</b>	2,798	0	26	64	585	865	768	390	94	6	0
	<b>TOTAL</b>	76,781	30†	995	2,911	16,020	23,135	20,947	10,347	2,244	152	0†
<b>White non-Hispanic</b>	<b>AHCCCS</b>	10,532	0	124	522	2,904	3,259	2,340	1,080	275	26	*
	<b>IHS</b>	50†	0	0	*	*	14	23	6	0	0	0
	<b>Private insurance</b>	19,350†	*	31	156	1,975	5,613	7,105	3,692	721	52	0
	<b>Self-pay</b>	2,001	0	7	27	291	640	611	353	64	8	0
	<b>Unknown</b>	1,170†	0	*	17	222	385	360	154	27	*	0
	<b>TOTAL</b>	33,100†	0†	166	720†	5,400†	9,911	10,439	5,285	1,087	89	0†
<b>Hispanic or Latino</b>	<b>AHCCCS</b>	19,481	20	552	1,505	5,902	5,794	3,651	1,642	396	19	0
	<b>IHS</b>	50†	0	*	*	13	16	10	*	*	0	0
	<b>Private insurance</b>	9,300†	*	53	132	1,578	3,136	2,799	1,325	257	15	0
	<b>Self-pay</b>	1,710†	*	22	58	402	541	425	201	61	*	0
	<b>Unknown</b>	1,320†	0	20	42	304	387	316	194	55	*	0
	<b>TOTAL</b>	31,859	20†	650†	1,740†	8,199	9,874	7,201	3,360†	770†	40†	0
<b>Black or African American</b>	<b>AHCCCS</b>	3,089	0	47	165	837	968	663	335	65	9	0
	<b>IHS</b>	0	0	0	0	0	0	0	0	0	0	0
	<b>Private insurance</b>	1,380†	*	*	31	181	370	465	251	68	*	0
	<b>Self-pay</b>	140†	0	*	*	32	36	36	19	7	*	0
	<b>Unknown</b>	160†	0	*	*	36	55	42	21	*	0	0
	<b>TOTAL</b>	4,770†	0†	60†	200†	1,086	1,429	1,206	626	145	20†	0
<b>American Indian or Alaska Native</b>	<b>AHCCCS</b>	2,840†	*	77	162	812	826	656	251	52	0	0
	<b>IHS</b>	520†	*	23	41	150	123	120	56	6	0	0
	<b>Private insurance</b>	600†	0	10	17	94	172	170	110	29	*	0
	<b>Self-pay</b>	80†	0	*	*	22	22	18	*	*	*	0
	<b>Unknown</b>	50†	0	0	*	14	12	14	6	*	0	0
	<b>TOTAL</b>	4,090†	0†	110†	230†	1,092	1,155	978	430†	90†	0†	0
<b>Asian or Pacific Islander</b>	<b>AHCCCS</b>	679	0	9	14	130	216	184	104	22	0	0
	<b>IHS</b>	0†	0	0	0	0	0	0	0	*	0	0
	<b>Private insurance</b>	2,030†	0	*	*	89	479	853	488	115	*	0
	<b>Self-pay</b>	160†	0	*	*	18	45	50	38	8	*	0
	<b>Unknown</b>	90†	0	0	*	9	26	36	15	*	*	0
	<b>TOTAL</b>	2,970†	0	10†	20†	246	766	1,123	645	150†	10†	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 1B-29  
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND TRIMESTER  
OF PREGNANCY PRENATAL CARE BEGAN, ARIZONA, 2020**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un- known
<b>All racial/ ethnic groups</b>	<b>No care</b>	1,880†	*	57	129	467	530	439	188	56	13	0
	<b>1st trimester</b>	52,793	12	458	1,618	10,065	16,142	15,252	7,605	1,540	101	0
	<b>2nd trimester</b>	13,943	8	284	729	3,462	4,074	3,273	1,639	450	23	*
	<b>3rd trimester</b>	5,120†	*	144	320	1,306	1,512	1,142	561	115	9	*
	<b>Unknown</b>	3,048	0	52	115	720	877	841	354	83	6	0
	<b>TOTAL</b>	76,781	30†	995	2,911	16,020	23,135	20,947	10,347	2,244	152	0†
<b>White non- Hispanic</b>	<b>No care</b>	510†	0	*	14	90	146	139	77	23	12	0
	<b>1st trimester</b>	24,856	0	94	442	3,677	7,512	8,180	4,104	788	59	0
	<b>2nd trimester</b>	4,860†	*	41	170	1,029	1,383	1,315	715	190	10	*
	<b>3rd trimester</b>	1,560†	0	24	65	341	471	396	213	40	*	*
	<b>Unknown</b>	1,330†	0	*	33	260	399	409	176	46	*	0
	<b>TOTAL</b>	33,100†	0†	170†	724	5,397	9,911	10,439	5,285	1,087	90†	0†
<b>Hispanic or Latino</b>	<b>No care</b>	1,020†	*	40	92	285	269	234	76	24	*	0
	<b>1st trimester</b>	20,522	10	288	935	5,001	6,576	4,867	2,327	492	26	0
	<b>2nd trimester</b>	6,540†	*	188	450	1,852	1,931	1,320	610	176	7	0
	<b>3rd trimester</b>	2,580†	*	95	201	734	752	500	231	55	*	0
	<b>Unknown</b>	1,200†	0	39	63	327	346	280	120	23	*	0
	<b>TOTAL</b>	31,859	20†	650	1,741	8,199	9,874	7,201	3,364	770	40†	0
<b>Black or African American</b>	<b>No care</b>	130†	*	*	7	28	52	24	16	*	0	0
	<b>1st trimester</b>	2,876	0	23	107	623	835	775	414	90	9	0
	<b>2nd trimester</b>	1,140†	0	19	51	285	353	257	129	38	*	0
	<b>3rd trimester</b>	390†	0	7	21	89	129	79	50	11	*	0
	<b>Unknown</b>	240†	0	6	14	61	60	71	17	*	*	0
	<b>TOTAL</b>	4,770†	0†	60†	200	1,086	1,429	1,206	626	150†	20†	0
<b>American Indian or Alaska Native</b>	<b>No care</b>	174	0	9	14	50	48	34	13	6	0	0
	<b>1st trimester</b>	2,340†	*	51	126	613	667	562	255	58	*	0
	<b>2nd trimester</b>	920†	*	33	51	244	271	214	93	14	*	0
	<b>3rd trimester</b>	443	0	17	30	118	113	114	45	6	0	0
	<b>Unknown</b>	210†	0	*	*	67	56	54	21	7	0	0
	<b>TOTAL</b>	4,090†	0†	112	226	1,092	1,155	978	427	91	0†	0
<b>Asian or Pacific Islander</b>	<b>No care</b>	50†	0	*	*	14	15	8	6	*	0	0
	<b>1st trimester</b>	2,200†	0	*	8	151	552	868	505	112	6	0
	<b>2nd trimester</b>	490†	0	*	7	52	136	167	92	32	0	0
	<b>3rd trimester</b>	150†	0	*	*	24	47	53	22	*	0	0
	<b>Unknown</b>	70†	0	*	0	*	16	27	20	*	0	0
	<b>TOTAL</b>	2,968	0	10†	20†	246	766	1,123	645	150†	6	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 1B-30  
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND NUMBER OF PRENATAL VISITS,  
ARIZONA, 2020**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known
<b>All racial/ ethnic groups</b>	<b>No visits</b>	1,880†	*	57	129	467	530	439	188	56	13	0
	<b>1-4 visits</b>	4,130†	*	111	264	1,028	1,221	887	490	115	9	*
	<b>5-8 visits</b>	13,989	6	295	681	3,384	4,185	3,434	1,621	359	24	0
	<b>9-12 visits</b>	32,839	14	337	1,139	6,574	9,996	9,365	4,438	923	53	0
	<b>13+ visits</b>	22,420†	*	167	656	4,213	6,749	6,395	3,439	751	49	0
	<b>Unknown</b>	1,520†	0	28	42	354	454	427	171	40	*	0
	<b>TOTAL</b>	76,781	30†	995	2,911	16,020	23,135	20,947	10,347	2,244	152	0†
<b>White non- Hispanic</b>	<b>No visits</b>	510†	0	*	14	90	146	139	77	23	12	0
	<b>1-4 visits</b>	1,190†	0	14	55	234	347	295	197	43	*	*
	<b>5-8 visits</b>	4,900	0	43	153	964	1,433	1,469	676	149	13	0
	<b>9-12 visits</b>	15,000†	*	71	286	2,333	4,505	4,908	2,391	482	24	0
	<b>13+ visits</b>	10,761	0	31	200	1,626	3,263	3,399	1,845	365	32	0
	<b>Unknown</b>	740†	0	*	16	150	217	229	99	25	*	0
	<b>TOTAL</b>	33,100†	0†	170†	724	5,397	9,911	10,439	5,285	1,087	90†	0†
<b>Hispanic or Latino</b>	<b>No visits</b>	1,020†	*	40	92	285	269	234	76	24	*	0
	<b>1-4 visits</b>	2,000†	*	75	151	565	595	377	189	43	*	0
	<b>5-8 visits</b>	6,430†	*	192	421	1,805	1,925	1,306	628	146	*	0
	<b>9-12 visits</b>	13,288	10	211	690	3,378	4,255	3,080	1,346	298	20	0
	<b>13+ visits</b>	8,620†	*	115	367	2,038	2,669	2,090	1,077	250	10	0
	<b>Unknown</b>	497	0	17	20	128	161	114	48	9	0	0
	<b>TOTAL</b>	31,859	20†	650	1,741	8,199	9,874	7,201	3,364	770	40†	0
<b>Black or African American</b>	<b>No visits</b>	130†	*	*	7	28	52	24	16	*	0	0
	<b>1-4 visits</b>	350†	0	*	19	81	113	70	44	15	*	0
	<b>5-8 visits</b>	1,070†	0	24	41	257	360	232	124	30	*	0
	<b>9-12 visits</b>	1,797	0	15	79	402	507	490	245	50	9	0
	<b>13+ visits</b>	1,300†	0	8	49	289	361	351	190	49	*	0
	<b>Unknown</b>	120†	0	*	*	29	36	39	7	0	0	0
	<b>TOTAL</b>	4,770†	0†	60†	200	1,086	1,429	1,206	626	150†	20†	0
<b>American Indian or Alaska Native</b>	<b>No visits</b>	174	0	9	14	50	48	34	13	6	0	0
	<b>1-4 visits</b>	493	0	17	35	132	138	115	49	7	0	0
	<b>5-8 visits</b>	1,090†	*	36	59	301	321	255	102	17	*	0
	<b>9-12 visits</b>	1,410†	*	36	79	360	408	327	165	31	0	0
	<b>13+ visits</b>	800†	0	12	38	207	211	218	89	24	*	0
	<b>Unknown</b>	120†	0	*	*	42	29	29	9	6	0	0
	<b>TOTAL</b>	4,090†	0†	112	226	1,092	1,155	978	427	91	0†	0
<b>Asian or Pacific Islander</b>	<b>No visits</b>	50†	0	*	*	14	15	8	6	*	0	0
	<b>1-4 visits</b>	100†	0	*	*	16	28	30	11	7	0	0
	<b>5-8 visits</b>	490†	0	0	7	57	146	172	91	17	*	0
	<b>9-12 visits</b>	1,340†	0	*	*	101	321	560	291	62	0	0
	<b>13+ visits</b>	940†	0	*	*	53	245	337	238	63	*	0
	<b>Unknown</b>	40†	0	*	0	*	11	16	8	0	0	0
	<b>TOTAL</b>	2,968	0	10†	20†	246	766	1,123	645	150†	10†	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 1B-31  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2020**

	TOTAL	Prenatal care						Visits		
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown	
<b>TOTAL</b>	76,781	1,880†	52,793	13,943	5,120†	3,050†	6,012	69,249	1,520†	
<b>Mother's age group</b>										
<15	30†	*	12	8	*	0	6	22	0	
15-17	995	57	458	284	144	52	168	799	28	
18-19	2,911	129	1,618	729	320	115	393	2,476	42	
20-24	16,020	467	10,065	3,462	1,306	720	1,495	14,171	354	
25-29	23,135	530	16,142	4,074	1,512	877	1,751	20,930	454	
30-34	20,947	439	15,252	3,273	1,142	841	1,326	19,194	427	
35-39	10,347	188	7,605	1,639	561	354	678	9,498	171	
40-44	2,244	56	1,540	450	115	83	171	2,033	40	
45+	152	13	101	23	9	6	22	126	*	
Unknown	0†	0	0	*	*	0	*	0	0	
<b>Payer for birth</b>										
AHCCCS	36,620	1,237	22,382	8,192	3,193	1,616	4,002	31,927	691	
IHS	620	38	321	136	91	34	144	455	21	
Private insurance	32,652	274	25,926	4,119	1,215	1,118	1,128	30,905	619	
Self-pay	4,091	277	2,426	833	363	192	549	3,415	127	
Unknown	2,798	56	1,738	663	253	88	189	2,547	62	
<b>Mother's education</b>										
8th Grade or Less	1,952	148	922	536	246	100	364	1,548	40	
Some High School	9,470	486	5,261	2,290	999	434	1,421	7,878	171	
High School / GED	20,771	584	13,395	4,419	1,528	845	1,881	18,483	407	
Some College	17,523	282	12,293	3,175	1,066	707	1,108	16,057	358	
Associate Degree	6,693	112	4,968	1,001	368	244	363	6,196	134	
Bachelor's Degree	13,263	122	10,354	1,719	621	447	521	12,489	253	
Postgraduate Education	6,662	56	5,433	715	242	216	205	6,349	108	
Unknown	447	92	167	88	45	55	149	249	49	
<b>Marital status</b>										
Married	41,375	544	31,017	6,194	2,096	1,524	2,011	38,573	791	
Unmarried <sup>a</sup>	34,527	1,245	21,348	7,548	2,919	1,467	3,811	30,021	695	
Unknown	879	93	428	201	100	57	190	655	34	
<b>Weight gain</b>										
Inadequate	16,352	594	10,349	3,127	1,624	658	1,930	14,110	312	
Adequate	22,989	479	16,078	4,231	1,393	808	1,570	21,027	392	
Excessive	36,441	637	26,016	6,431	2,017	1,340	2,264	33,568	609	
Unknown	999	172	350	154	81	242	248	544	207	
<b>Smoking during pregnancy</b>										
Non-smoker	73,299	1,576	51,010	13,123	4,751	2,839	5,282	66,632	1,385	
Light smoker (less than 10 cigarettes per day)	1,641	137	814	419	183	88	344	1,245	52	
Heavy smoker (10 or more cigarettes per day)	1,150	114	617	243	114	62	249	864	37	
Unknown	691	55	352	158	67	59	137	508	46	

**TABLE 1B-31 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2020**

	TOTAL	Prenatal care						Visits				
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown			
<b>Length of gestation</b>												
<37 weeks	7,256	457	4,810	1,154	338	497	1,240	5,772	244			
37-41 weeks	69,234	1,381	47,927	12,706	4,749	2,471	4,702	63,323	1,209			
42+ weeks	155	17	55	45	26	12	30	119	6			
Unknown	140†	27	*	38	*	68	40	35	61			
<b>Weight at birth</b>												
<1,000 grams	440†	45	275	70	*	47	195	227	19			
1,000-1,499	438	27	296	73	15	27	92	333	13			
1,500-2,499	4,771	247	3,122	872	278	252	682	3,962	127			
2,500-3,999	65,280	1,455	44,957	11,931	4,475	2,462	4,703	59,357	1,220			
4,000+ grams	5,788	102	4,129	993	340	224	325	5,353	110			
Unknown	60†	6	14	*	*	36	15	17	31			
<b>Newborn intensive care</b>												
Yes	6,006	437	3,741	1,126	454	248	1,126	4,735	145			
No	70,775	1,445	49,052	12,817	4,661	2,800	4,886	64,514	1,375			
<b>Method of delivery</b>												
Vaginal	52,858	1,345	36,053	9,722	3,511	2,227	4,088	47,616	1,154			
C-Section	21,801	481	15,332	3,818	1,426	744	1,744	19,727	330			
Forceps	290†	*	185	64	32	8	24	263	*			
Vacuum	1,830	53	1,223	339	146	69	156	1,643	31			
Unknown	0	0	0	0	0	0	0	0	0			
<b>Obstetric procedures<sup>b</sup></b>												
Total	40,055	679	27,761	7,600	2,784	1,231	2,591	36,841	623			
Induction of labor	24,362	265	17,139	4,547	1,671	740	1,281	22,798	283			
Augmentation of labor	22,538	486	15,402	4,338	1,603	709	1,632	20,499	407			
Cervical cerclage	174	0	123	32	12	7	19	152	*			
Tocolysis	419	20	272	85	31	11	72	338	9			
External cephalic version successful	79	0	54	16	9	0	6	73	0			
External cephalic version failed	130†	*	86	26	10	*	7	117	*			
<b>Births with medical risk factors<sup>b</sup></b>												
Total	21,243	545	14,444	3,995	1,535	724	1,912	18,998	333			
Pre-existing diabetes	938	18	651	162	76	31	84	845	9			
Gestational diabetes	7,327	84	5,226	1,283	488	246	448	6,775	104			
Pre-existing hypertension	1,234	27	851	212	96	48	109	1,102	23			
Gestational hypertension	6,814	197	4,703	1,250	435	229	621	6,076	117			
Eclampsia	98	9	61	13	9	6	19	77	*			
Previous preterm birth	3,292	113	2,197	636	215	131	372	2,858	62			
Other previous poor pregnancy outcome	3,824	104	2,603	771	295	51	374	3,428	22			
Gonorrhea	280	24	146	76	25	9	62	212	6			
Syphilis	214	19	112	45	32	6	50	161	*			
Chlamydia	1,984	81	1,111	493	215	84	286	1,659	39			
Hepatitis B	100†	*	59	25	9	*	12	89	*			
Hepatitis C	201	25	98	44	26	8	60	136	*			

**TABLE 1B-31 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2020**

	TOTAL	Prenatal care						Visits				
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown			
<b>Births with complications of labor and delivery<sup>b</sup></b>												
Total	23,556	783	16,002	4,322	1,603	846	2,228	20,781	547			
Premature rupture of the membranes	4,015	155	2,668	760	241	191	449	3,450	116			
Precipitous labor	4,910	202	3,356	870	298	184	505	4,273	132			
Prolonged labor	2,144	56	1,484	394	149	61	180	1,927	37			
Breech presentation	3,033	104	2,104	519	186	120	343	2,623	67			
Chorioamnionitis	1,442	35	962	294	108	43	118	1,302	22			
Meconium staining of the amniotic fluid	5,548	242	3,604	1,044	441	217	591	4,797	160			
Fetal intolerance	6,695	161	4,607	1,254	482	191	513	6,063	119			
Maternal transfusion	507	43	297	111	39	17	97	396	14			
Third or fourth degree perineal laceration	400†	*	272	76	30	13	22	365	9			
Ruptured uterus	40†	*	24	9	*	*	*	33	0			
Unplanned Hysterectomy	30†	*	29	0	*	0	*	29	0			
Admission to intensive care unit	127	23	70	13	6	15	36	78	13			
Unplanned surgery following delivery	172	13	123	26	7	*	21	149	*			
<b>Abnormal conditions of the newborn<sup>b</sup></b>												
Total	3,469	246	2,190	653	225	155	625	2,749	95			
Assisted ventilation immediately after delivery	2,532	153	1,647	478	146	108	422	2,035	75			
Assisted ventilation for more than 6 hours	1,603	117	1,035	302	80	69	308	1,251	44			
Surfactant replacement therapy	316	33	194	58	11	20	74	229	13			
Suspected neonatal sepsis	1,555	145	927	299	112	72	346	1,169	40			
Seizure or serious neurologic dysfunction	30†	*	16	7	*	0	6	27	0			
Significant birth injury	60†	*	39	11	*	*	11	50	*			
<b>Congenital anomalies of the newborn<sup>b</sup></b>												
Total	303	15	178	68	33	9	51	246	6			
Anencephalus	10†	0	*	*	*	0	*	6	0			
Spina bifida / Meningocele	10†	*	6	*	*	0	*	10	0			
Cyanotic congenital heart disease	40†	*	27	14	*	0	*	40	0			
Congenital diaphragmatic hernia	0†	0	*	*	*	0	0	*	0			
Omphalocele / Gastroschisis	30†	0	11	9	*	*	*	21	*			
Limb reduction defect	20†	0	10	*	*	*	*	11	*			
Cleft lip / palate	70†	*	33	18	9	*	13	52	0			
Down syndrome	50†	*	34	7	*	0	*	40	0			
Suspected chromosomal disorder	50†	*	38	8	*	*	7	44	0			
Hypospadias	20†	0	15	*	*	0	*	16	0			
<b>Unknown congenital anomalies</b>	43	7	18	7	7	*	15	25	*			

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; <sup>b</sup> Total birth where an obstetric procedure; medical risk factor; complication of labor and delivery; abnormal condition of the newborn; or a congenital anomaly of the newborn was identified.



**TABLE 1B-32  
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2020**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
<b>TOTAL</b>	76,781	5,650†	71,068	60†	7,260†	69,234	160†	140†
<b>Mother's age group</b>								
<15	30†	*	24	0	*	25	0	0
15-17	1,000†	87	906	*	91	900	*	*
18-19	2,911	226	2,684	*	256	2,643	10	*
20-24	16,020	1,112	14,902	6	1,364	14,608	24	24
25-29	23,135	1,583	21,536	16	2,063	20,981	48	43
30-34	20,947	1,489	19,440	18	1,977	18,892	44	34
35-39	10,347	899	9,430	18	1,160	9,138	23	26
40-44	2,240†	225	2,017	*	310	1,927	*	*
45+	152	25	127	0	32	118	0	*
Unknown	0†	0	*	0	0	*	0	0
<b>Payer for birth</b>								
AHCCCS	36,620	2,975	33,631	14	3,804	32,689	60	67
IHS	620†	47	573	0	73	542	*	*
Private insurance	32,652	2,238	30,402	12	2,864	29,706	58	24
Self-pay	4,091	208	3,853	30	259	3,775	27	30
Unknown	2,798	182	2,609	7	256	2,522	9	11
<b>Mother's education</b>								
8th Grade or Less	1,952	161	1,790	*	193	1,749	6	*
Some High School	9,470	830	8,638	*	1,051	8,379	21	19
High School / GED	20,771	1,529	19,225	17	1,998	18,705	33	35
Some College	17,523	1,288	16,215	20	1,674	15,788	26	35
Associate Degree	6,693	474	6,212	7	644	6,025	17	7
Bachelor's Degree	13,263	833	12,422	8	1,047	12,164	36	16
Postgraduate Education	6,662	467	6,192	*	564	6,080	14	*
Unknown	450†	68	374	*	85	344	*	16
<b>Marital status</b>								
Married	41,375	2,727	38,615	33	3,561	37,664	94	56
Unmarried <sup>a</sup>	34,527	2,838	31,662	27	3,564	30,837	58	68
Unknown	880†	85	791	*	131	733	*	12
<b>Weight gain</b>								
Inadequate	16,352	1,911	14,416	25	2,074	14,208	26	44
Adequate	22,989	1,614	21,366	9	1,986	20,918	55	30
Excessive	36,441	2,007	34,410	24	3,031	33,297	70	43
Unknown	1,000†	118	876	*	165	811	*	19
<b>Smoking during pregnancy</b>								
Non-smoker	73,299	5,156	68,085	58	6,717	66,323	147	112
Light smoker (less than 10 cigarettes per day)	1,640†	194	1,446	*	220	1,410	*	9
Heavy smoker (10 or more cigarettes per day)	1,150†	193	953	*	192	945	*	10
Unknown	690†	107	584	0	127	556	*	*

**TABLE 1B-32 (continued)  
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2020**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
<b>Prenatal care</b>								
No care	1,882	319	1,557	6	457	1,381	17	27
1st trimester	52,793	3,693	49,086	14	4,810	47,927	55	*
2nd trimester	13,943	1,015	12,924	*	1,154	12,706	45	38
3rd trimester	5,115	297	4,815	*	338	4,749	26	*
Unknown	3,048	326	2,686	36	497	2,471	12	68
<b>Prenatal visits</b>								
No visits	1,882	319	1,557	6	457	1,381	17	27
1-4 visits	4,130	650	3,471	9	783	3,321	13	13
5-8 visits	13,989	1,599	12,385	*	2,075	11,880	27	7
9-12 visits	32,839	1,886	30,948	*	2,465	30,321	38	15
13+ visits	22,421	1,037	21,377	7	1,232	21,122	54	13
Unknown	1,520	159	1,330	31	244	1,209	6	61
<b>Newborn intensive care</b>								
Yes	6,006	2,703	3,297	6	3,253	2,719	12	22
No	70,775	2,947	67,771	57	4,003	66,515	143	114
<b>Method of delivery</b>								
Vaginal	52,858	2,723	50,073	62	3,577	49,062	98	121
C-Section	21,801	2,829	18,971	*	3,563	18,171	53	14
Forceps	292	20	272	0	20	272	0	0
Vacuum	1,830†	78	1,752	0	96	1,729	*	*
Unknown	0	0	0	0	0	0	0	0
<b>Obstetric procedures<sup>b</sup></b>								
Total	40,055	2,158	37,894	3	2,590	37,349	90	26
Induction of labor	24,362	1,454	22,907	*	1,454	22,829	64	15
Augmentation of labor	22,538	973	21,562	*	1,411	21,068	45	14
Cervical cerclage	174	51	123	0	74	100	0	0
Tocolysis	420†	158	261	0	186	232	*	0
External cephalic version successful	80†	*	76	0	*	77	0	0
External cephalic version failed	126	9	117	0	13	113	0	0
<b>Births with medical risk factors<sup>b</sup></b>								
Total	21,243	2,606	18,629	8	3,523	17,671	23	26
Pre-existing diabetes	940†	119	819	0	264	669	*	*
Gestational diabetes	7,330†	596	6,731	0	939	6,382	*	*
Pre-existing hypertension	1,230†	191	1,043	0	257	975	*	*
Gestational hypertension	6,814	1,214	5,597	*	1,541	5,254	8	11
Eclampsia	98	38	60	0	54	43	0	*
Previous preterm birth	3,290†	642	2,647	*	1,018	2,269	*	*
Other previous poor pregnancy outcome	3,824	465	3,358	*	560	3,255	9	0
Gonorrhea	280	41	239	0	44	236	0	0
Syphilis	214	33	181	0	37	177	0	0
Chlamydia	1,980†	150	1,833	*	180	1,797	*	*
Hepatitis B	102	10	92	0	11	90	0	*
Hepatitis C	201	29	172	0	34	166	0	*

**TABLE 1B-32 (continued)  
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2020**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
<b>Births with complications of labor and delivery<sup>b</sup></b>								
Total	23,556	2,618	20,922	16	3,158	20,292	65	41
Premature rupture of the membranes	4,015	721	3,292	*	1,066	2,931	14	*
Precipitous labor	4,910	376	4,525	9	452	4,423	9	26
Prolonged labor	2,144	168	1,974	*	246	1,881	16	*
Breech presentation	3,030 <sup>†</sup>	881	2,147	*	990	2,036	*	*
Chorioamnionitis	1,440 <sup>†</sup>	88	1,353	*	107	1,333	*	0
Meconium staining of the amniotic fluid	5,548	263	5,284	*	293	5,226	25	*
Fetal intolerance	6,695	733	5,961	*	735	5,936	19	*
Maternal transfusion	510 <sup>†</sup>	109	398	0	139	366	*	*
Third or fourth degree perineal laceration	400 <sup>†</sup>	*	391	0	13	383	0	0
Ruptured uterus	38	11	27	0	11	27	0	0
Unplanned Hysterectomy	34	9	25	0	15	19	0	0
Admission to intensive care unit	127	54	73	0	66	60	0	*
Unplanned surgery following delivery	172	25	147	0	37	135	0	0
<b>Total</b>	<b>3,469</b>	<b>1,466</b>	<b>1,999</b>	<b>4</b>	<b>1,714</b>	<b>1,739</b>	<b>6</b>	<b>10</b>
<b>Abnormal conditions of the newborn<sup>b</sup></b>								
Total	2,532	1,112	1,416	*	1,298	1,218	6	10
Assisted ventilation immediately after delivery	1,600 <sup>†</sup>	910	691	*	1,056	540	*	*
Assisted ventilation for more than 6 hours	320 <sup>†</sup>	249	67	0	264	49	*	*
Surfactant replacement therapy	1,560 <sup>†</sup>	747	807	*	861	691	*	*
Suspected neonatal sepsis	33	10	23	0	7	26	0	0
Seizure or serious neurologic dysfunction	63	8	55	0	12	51	0	0
Significant birth injury	300 <sup>†</sup>	83	218	2	81	218	3	1
<b>Total</b>	<b>10<sup>†</sup></b>	<b>*</b>	<b>*</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>
<b>Congenital anomalies of the newborn<sup>b</sup></b>								
Total	10 <sup>†</sup>	*	10	0	*	8	0	0
Anencephalus	10 <sup>†</sup>	*	10	0	*	8	0	0
Spina bifida / Meningocele	44	14	29	*	13	31	0	0
Cyanotic congenital heart disease	0 <sup>†</sup>	*	*	0	0	*	0	0
Congenital diaphragmatic hernia	27	10	17	0	10	17	0	0
Omphalocele / Gastroschisis	17	8	8	*	6	11	0	0
Limb reduction defect	70 <sup>†</sup>	*	60	*	8	56	*	0
Cleft lip / palate	45	17	28	0	21	24	0	0
Down syndrome	50 <sup>†</sup>	20	31	0	15	34	*	0
Suspected chromosomal disorder	20 <sup>†</sup>	*	15	0	*	16	0	0
Hypospadias	43	14	28	*	15	27	0	*
Unknown congenital anomalies								

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; <sup>b</sup> Total birth where an obstetric procedure; medical risk factor; complication of labor and delivery; abnormal condition of the newborn; or a congenital anomaly of the newborn was identified.

**TABLE 1B-33  
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2020**

	TOTAL	Mother's age group										Un- known		
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+				
<b>Mother's race/ethnicity</b>														
White non-Hispanic	76,781	28	995	2,911	16,020	23,135	20,947	10,347	2,244	152	2			
Hispanic or Latino	33,100†	*	166	724	5,397	9,911	10,439	5,285	1,087	89	*			
Black or African American	31,859	22	650	1,741	8,199	9,874	7,201	3,364	770	38	0			
American Indian or Alaska Native	4,770†	*	56	200	1,086	1,429	1,206	626	145	17	0			
Asian or Pacific Islander	4,090†	*	112	226	1,092	1,155	978	427	91	*	0			
	2,970†	0	11	20	246	766	1,123	645	151	6	0			
<b>Payer for birth</b>														
AHCCCS	36,620	23	809	2,368	10,585	11,063	7,494	3,412	810	54	*			
IHS	620†	*	26	47	168	153	153	64	8	0	0			
Private insurance	32,650†	*	98	339	3,917	9,770	11,392	5,866	1,190	77	0			
Self-pay	4,090†	*	36	93	765	1,284	1,140	615	142	15	0			
Unknown	2,800†	0	26	64	585	865	768	390	94	6	0			
<b>Mother's education</b>														
8th Grade or Less	1,952	13	81	75	359	413	471	397	135	8	0			
Some High School	9,470	14	820	1,178	2,872	2,185	1,509	695	190	7	0			
High School / GED	20,770†	*	79	1,330	6,821	6,539	3,986	1,650	348	17	0			
Some College	17,520†	0	7	294	4,113	6,247	4,511	1,924	406	21	0			
Associate Degree	6,690†	0	*	26	955	2,331	2,118	1,033	216	13	0			
Bachelor's Degree	13,260†	0	0	*	768	4,129	5,162	2,670	499	33	0			
Postgraduate Education	6,660†	0	0	0	58	1,199	3,069	1,892	413	31	0			
Unknown	450†	0	7	6	74	92	121	86	37	22	*			
<b>Marital status</b>														
Married	41,380†	0	19	284	4,904	12,911	14,352	7,302	1,502	101	0			
Unmarried <sup>a</sup>	34,527	28	974	2,621	11,002	9,985	6,328	2,876	683	30	0			
Unknown	880†	0	*	6	114	239	267	169	59	21	*			
<b>Weight gain</b>														
Inadequate	16,352	9	301	625	3,405	4,860	4,388	2,204	516	43	*			
Adequate	22,990†	*	291	813	4,472	7,047	6,455	3,124	735	48	0			
Excessive	36,441	14	385	1,444	7,922	10,932	9,852	4,874	961	56	*			
Unknown	1,000†	*	18	29	221	296	252	145	32	*	0			
<b>Smoking during pregnancy</b>														
Non-smoker	73,299	28	975	2,791	15,270	22,077	20,010	9,878	2,129	140	*			
Light smoker (less than 10 cigarettes per day)	1,640†	0	12	71	379	489	415	221	52	*	*			
Heavy smoker (10 or more cigarettes per day)	1,150†	0	*	25	217	362	348	156	34	7	0			
Unknown	690†	0	7	24	154	207	174	92	29	*	0			
<b>Length of gestation</b>														
<37 weeks	7,260†	*	91	256	1,364	2,063	1,977	1,160	310	32	0			
37-41 weeks	69,234	25	900	2,643	14,608	20,981	18,892	9,138	1,927	118	*			
42+ weeks	160†	0	*	10	24	48	44	23	*	0	0			
Unknown	140†	0	*	*	24	43	34	26	*	0	0			
<b>Weight at birth</b>														
<1,000 grams	440†	0	*	20	85	139	115	66	10	*	0			
1,000-1,499	440†	0	*	11	72	124	120	85	21	*	0			
1,500-2,499	4,770†	*	78	195	955	1,320	1,254	748	194	23	0			
2,500-3,999	65,280	22	866	2,557	13,928	19,737	17,614	8,561	1,873	120	*			
4,000+ grams	5,790†	*	40	127	974	1,799	1,826	869	144	7	0			
Unknown	60†	0	*	*	6	16	18	18	*	0	0			

**TABLE 1B-33 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2020**

	TOTAL	Mother's age group										Un- known		
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+				
<b>Prenatal care</b>														
No care	1,880†	*	57	129	467	530	439	188	56	13	0			
1st trimester	52,793	12	458	1,618	10,065	16,142	15,252	7,605	1,540	101	0			
2nd trimester	13,943	8	284	729	3,462	4,074	3,273	1,639	450	23	*			
3rd trimester	5,120†	*	144	320	1,306	1,512	1,142	561	115	9	*			
Unknown	3,050†	0	52	115	720	877	841	354	83	6	0			
<b>Prenatal visits</b>														
No visits	1,880†	*	57	129	467	530	439	188	56	13	0			
1-4 visits	4,130†	*	111	264	1,028	1,221	887	490	115	9	*			
5-8 visits	13,989	6	295	681	3,384	4,185	3,434	1,621	359	24	0			
9-12 visits	32,839	14	337	1,139	6,574	9,996	9,365	4,438	923	53	0			
13+ visits	22,420†	*	167	656	4,213	6,749	6,395	3,439	751	49	0			
Unknown	1,520†	0	28	42	354	454	427	171	40	*	0			
<b>Newborn intensive care</b>														
Yes	6,010†	*	74	210	1,182	1,700	1,628	943	244	22	*			
No	70,775	26	921	2,701	14,838	21,435	19,319	9,404	2,000	130	*			
<b>Method of delivery</b>														
Vaginal	52,858	23	823	2,305	12,031	16,366	13,813	6,169	1,248	80	0			
C-Section	21,800†	*	124	473	3,483	6,164	6,615	3,919	952	67	*			
Forceps	290†	*	88	15	51	88	77	51	6	0	0			
Vacuum	1,830†	*	45	118	455	517	442	208	38	*	0			
Unknown	0†	0	0	0	0	0	0	0	0	0	0			
<b>Obstetric procedures<sup>b</sup></b>														
Total	40,055	21	620	1,795	9,407	12,152	10,089	4,881	1,030	60	0			
Induction of labor	24,362	11	321	1,004	5,408	7,199	6,217	3,382	771	49	0			
Augmentation of labor	22,538	12	398	1,102	5,605	6,921	5,566	2,441	471	22	0			
Cervical cerclage	170†	0	0	*	25	51	59	28	*	*	0			
Tocolysis	420†	*	8	20	93	128	95	56	18	0	0			
External cephalic version successful	80†	0	0	*	13	18	30	16	*	0	0			
External cephalic version failed	130†	0	0	*	17	46	35	22	*	0	0			
<b>Births with medical risk factors<sup>b</sup></b>														
Total	21,240†	5	196	672	3,836	5,940	6,130	3,512	882	69	1			
Pre-existing diabetes	940†	0	*	13	109	228	294	225	60	*	0			
Gestational diabetes	7,330†	*	24	104	877	1,957	2,385	1,534	410	34	*			
Pre-existing hypertension	1,230†	0	*	12	150	309	375	283	99	*	0			
Gestational hypertension	6,810†	*	88	275	1,416	1,909	1,803	1,027	268	26	0			
Eclampsia	100†	0	0	6	22	20	23	22	*	0	0			
Previous preterm birth	3,290†	0	8	27	427	941	1,057	652	169	11	0			
Other previous poor pregnancy outcome	3,820†	0	11	64	573	1,178	1,176	639	170	12	*			
Gonorrhea	280†	*	9	34	89	75	51	17	*	0	0			
Syphilis	210†	0	*	10	63	59	59	18	*	0	0			
Chlamydia	1,980†	*	79	253	844	454	248	84	21	0	0			
Hepatitis B	100†	0	*	*	11	26	30	24	6	0	0			
Hepatitis C	200†	0	0	*	25	69	68	32	*	0	0			

**TABLE 1B-33 (continued)**  
**SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2020**

	TOTAL	Mother's age group										Un- known		
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+				
<b>Births with complications of labor and delivery<sup>b</sup></b>														
Total	23,556	10	305	1,003	5,085	7,093	6,246	3,092	670	51	1			
Premature rupture of the membranes	4,020†	*	63	214	968	1,206	976	480	102	*	0			
Precipitous labor	4,910†	*	45	130	773	1,494	1,561	749	142	15	0			
Prolonged labor	2,140†	*	33	116	562	653	498	220	58	*	0			
Breech presentation	3,030†	0	19	77	456	838	899	594	140	10	0			
Chorioamnionitis	1,440†	*	20	105	443	422	306	123	20	*	0			
Meconium staining of the amniotic fluid	5,550†	*	91	265	1,333	1,728	1,436	571	113	7	0			
Fetal intolerance	6,700†	*	102	332	1,623	2,010	1,609	801	198	15	*			
Maternal transfusion	510†	0	11	22	99	161	117	77	17	*	0			
Third or fourth degree perineal laceration	400†	*	11	10	87	127	119	36	*	0	0			
Ruptured uterus	40†	0	0	*	6	9	13	7	*	0	0			
Unplanned Hysterectomy	30†	0	0	0	*	8	14	7	*	0	0			
Admission to intensive care unit	130†	0	*	*	29	34	32	21	6	*	0			
Unplanned surgery following delivery	170†	0	*	*	29	58	42	24	12	*	0			
<b>Abnormal conditions of the newborn<sup>b</sup></b>														
Total	3,470†	2	47	132	661	991	946	539	138	13	0			
Assisted ventilation immediately after delivery	2,530†	*	36	93	460	715	688	421	106	11	0			
Assisted ventilation for more than 6 hours	1,600†	*	19	53	290	435	454	282	63	6	0			
Surfactant replacement therapy	320†	0	*	11	56	75	100	58	12	*	0			
Suspected neonatal sepsis	1,560†	0	25	66	331	450	401	225	50	7	0			
Seizure or serious neurologic dysfunction	30†	0	0	*	6	10	9	*	*	0	0			
Significant birth injury	60†	0	0	*	16	16	16	10	*	0	0			
<b>Congenital anomalies of the newborn<sup>b</sup></b>														
Total	300†	0	3	14	55	72	84	54	20	1	0			
Anencephalus	10†	0	0	0	0	*	*	*	0	0	0			
Spina bifida / Meningocele	10†	0	0	0	*	*	*	*	0	0	0			
Cyanotic congenital heart disease	40†	0	0	0	7	13	15	7	*	0	0			
Congenital diaphragmatic hernia	0†	0	0	0	*	*	0	*	0	0	0			
Omphalocele / Gastroschisis	30†	0	*	*	9	*	7	*	0	0	0			
Limb reduction defect	20†	0	*	*	6	*	*	*	0	0	0			
Cleft lip / palate	70†	0	0	*	9	21	17	10	*	0	0			
Down syndrome	50†	0	*	*	*	7	8	14	9	*	0			
Suspected chromosomal disorder	50†	0	0	*	7	11	15	7	8	0	0			
Hypospadias	20†	0	0	0	*	6	6	*	*	0	0			
Unknown congenital anomalies	40†	0	0	*	9	11	14	*	*	0	0			

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; <sup>b</sup> Total birth where an obstetric procedure; medical risk factor; complication of labor and delivery; abnormal condition of the newborn; or a congenital anomaly of the newborn was identified.

**TABLE 1B-34  
BIRTHS WITH CONGENITAL ANOMALIES MENTIONED ON BIRTH CERTIFICATE BY MOTHER'S RACE/ETHNICITY AND  
CHILD'S GENDER, ARIZONA, 2020**

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
<b>Total</b>	303	150	153	125	62	63	134	70	64	10	4	6	26	9	17	8	5	3
<b>Anencephalus</b>	10 <sup>+</sup>	*	*	0 <sup>+</sup>	*	*	0 <sup>+</sup>	*	*	0	0	0	0 <sup>+</sup>	0	*	0	0	0
<b>Spina bifida / Meningocele</b>	12	6	6	10 <sup>+</sup>	*	6	10 <sup>+</sup>	*	0	0	0	0	0	0	0	0	0	0
<b>Cyanotic congenital heart disease</b>	44	19	25	22	9	13	16	7	9	0 <sup>+</sup>	*	*	0 <sup>+</sup>	*	*	0	0	0
<b>Congenital diaphragmatic hernia</b>	0 <sup>+</sup>	*	*	0	0	0	0 <sup>+</sup>	*	*	0	0	0	0	0	0	0	0	0
<b>Omphalocele / Gastroschisis</b>	27	8	19	10 <sup>+</sup>	*	6	10 <sup>+</sup>	*	9	0 <sup>+</sup>	*	*	0 <sup>+</sup>	*	*	0 <sup>+</sup>	*	0
<b>Limb reduction defect</b>	17	8	9	10 <sup>+</sup>	*	*	10 <sup>+</sup>	*	*	0	0	0	0 <sup>+</sup>	0	*	0	0	0
<b>Cleft lip / palate</b>	65	38	27	23	15	8	30	16	14	0 <sup>+</sup>	*	0	10 <sup>+</sup>	*	*	0 <sup>+</sup>	*	*
<b>Down syndrome</b>	45	21	24	21	11	10	19	9	10	0 <sup>+</sup>	0	*	0 <sup>+</sup>	*	*	0	0	0
<b>Suspected chromosomal disorder</b>	51	17	34	18	6	12	24	8	16	0 <sup>+</sup>	*	*	10 <sup>+</sup>	*	*	0 <sup>+</sup>	*	*
<b>Hypospadias</b>	17	17	0	10 <sup>+</sup>	*	0	11	11	0	0	0	0	0	0	0	0 <sup>+</sup>	*	0
<b>Unknown congenital anomalies</b>	43	23	20	23	15	8	15	7	8	0 <sup>+</sup>	0	*	0 <sup>+</sup>	*	*	0 <sup>+</sup>	0	*
<b>Ratio per 100 births<sup>a</sup></b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.2</b>	<b>0.2</b>	<b>0.3</b>	<b>0.6</b>	<b>0.4</b>	<b>0.9</b>	<b>0.3</b>	<b>0.3</b>	<b>0.2</b>

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> For denominators see Table 5B-8.







## **1C.**

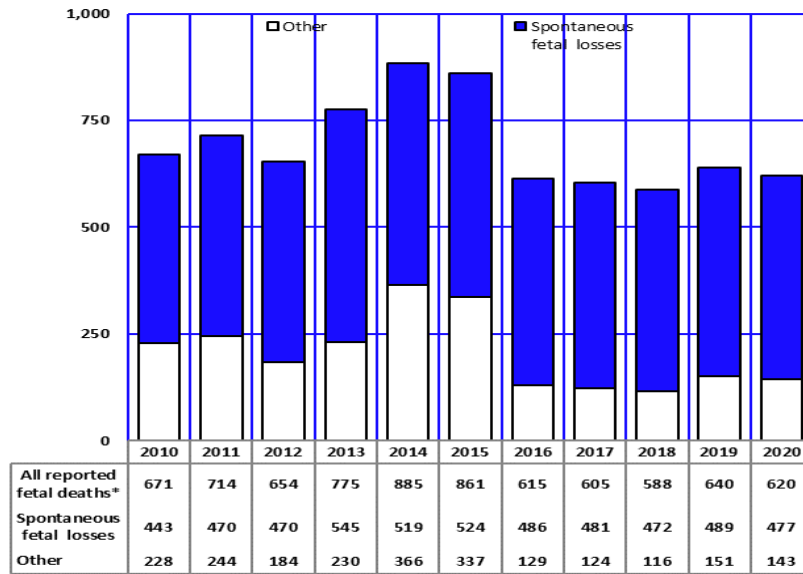
### **FETAL, PERINATAL, AND MATERNAL DEATHS**

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In Arizona, reportable fetal deaths are those after 20 completed weeks of gestation or if the fetus weighs more than 350 grams (*ARS 36-329; Arizona Administrative Code, R9-19-302*). In addition to spontaneous stillbirths, any induced termination of pregnancy at 20 or more weeks of gestation (or, if the gestation period is unknown, when the weight of the product of human conception is more than 350 grams) also requires the filing of a fetal death certificate.

## 1C. FETAL, PERINATAL, AND MATERNAL DEATHS

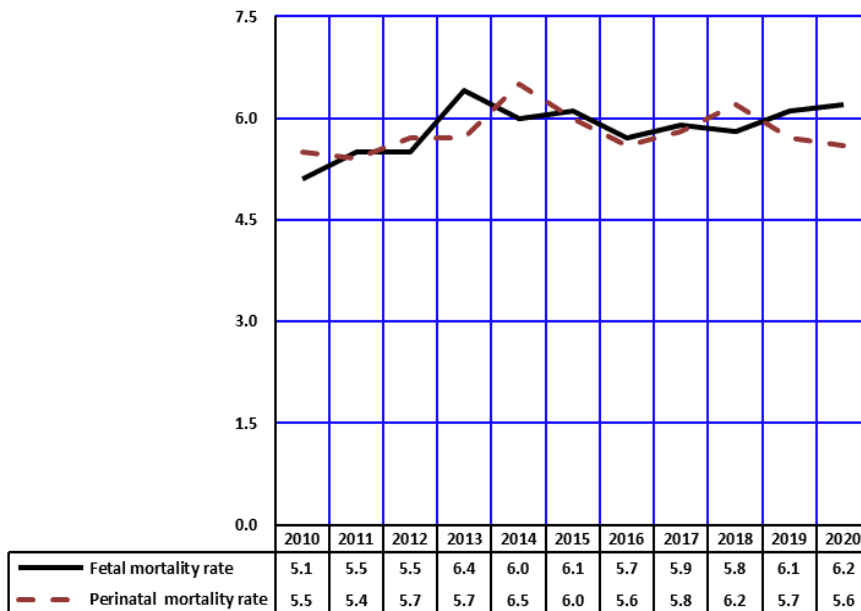
**Figure 1C-1**  
Trends in Fetal Deaths, Arizona, 2010-2020



The number of all reported fetal deaths in Arizona (including late term abortions) in 2020 was 620, a 3.1 percent decrease from 2019 (Figure 1C-1, Table 1C-3). The annual number of reportable spontaneous fetal losses decreased 2.5 percent from 489 in 2019 to 477 in 2020. (Figure 1C-1, Table 1C-3).

Note: All reported includes spontaneous and induced termination of pregnancy at 20 or more weeks of gestation or 350 grams or more and some stillbirths prior to 20 weeks and of any weight.

**Figure 1C-2**  
Fetal<sup>a</sup> and Perinatal<sup>b</sup> Mortality Rates, Arizona, 2010-2020



The fetal mortality rate increased slightly from a rate of 6.1 deaths at 20 or more weeks of gestation per 1,000 live births in 2019 to a rate of 6.2 deaths in 2020.

Perinatal mortality refers here to death of a fetus of at least 28 weeks gestational age, or of an infant less than 7 days old. The perinatal death rate per 1,000 live births has been below 6 deaths per 1,000 since 2009 then increased at 6.5 in 2014. The perinatal mortality rate of 5.6 in 2020 represented a decrease from the 2017, 2018, and 2019 rates (Figure 1C-2, Table 1C-3).

Early infant deaths accounted for 211 or 48.6 percent of the 434 perinatal deaths in 2020 (Figure 1C-2, Table 1C-3).

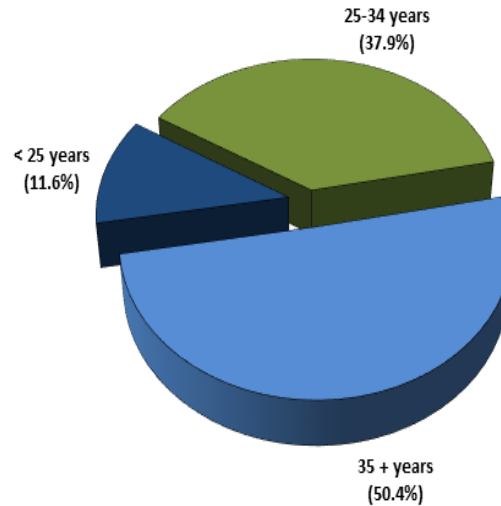
Notes: <sup>a</sup>Rate is the number of events per 1,000 live births and fetal deaths. <sup>b</sup> Infant deaths of less than 7 days and fetal deaths with gestation of 28 weeks or more, per 1,000 live births and fetal deaths.

## 1C. FETAL, PERINATAL, AND MATERNAL DEATHS

**Figure 1C-3**  
Percent of Death from Maternal Causes by Mother's Age Group,  
Arizona, 2010-2020

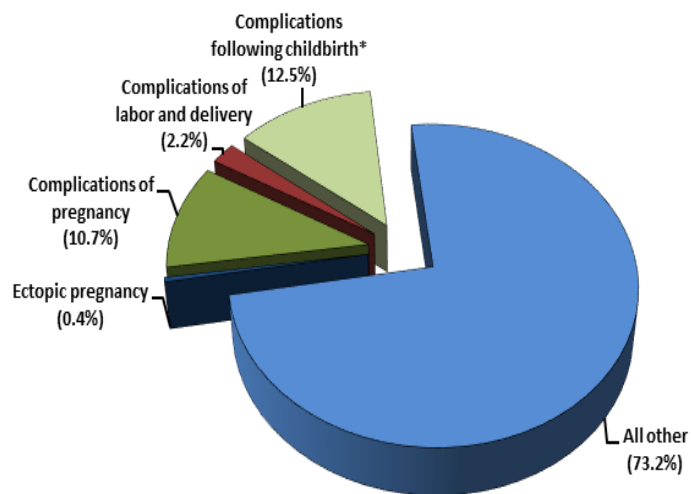
In 2020, 39 women giving birth were reported to have died from maternal causes (**Table 1C-1**). This represents a 7.1 percent decrease from the number of maternal deaths recorded in 2019. The number of maternal deaths does not include all deaths occurring to pregnant women, but only those deaths assigned to causes related to or aggravated by pregnancy or pregnancy management.

Based on the total number of 224 maternal deaths from 2010 to 2020, women age 35 and older had the highest proportional contribution to maternal mortality followed by women age 25 - 34, and women age 24 and younger (**Figure 1C-3**).



**Figure 1C-4**  
Causes of Maternal Mortality<sup>a</sup>, Arizona, 2010-2020

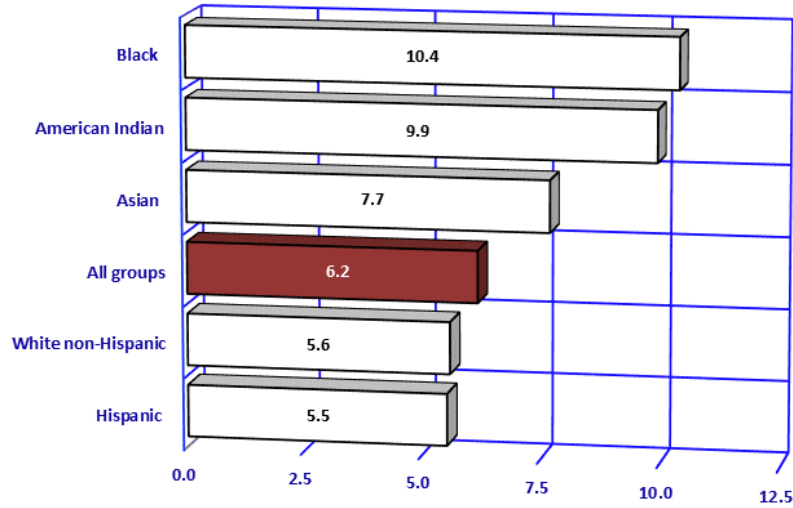
In the eleven-year period from 2010 to 2020, the major causes of maternal deaths in the state have included complications following childbirth (i.e. complications of the puerperium), complications mainly related to pregnancy, complications occurring in the course of labor and delivery, and ectopic pregnancy. All other possible causes of maternal death accounted for 73.2 percent of the maternal deaths from 2010 to 2020 (**Figure 1C-4**, **Table 1C-2**).



Notes: <sup>a</sup> Based on the total number of maternal deaths from 2010 to 2020; \* Complications of the puerperium.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

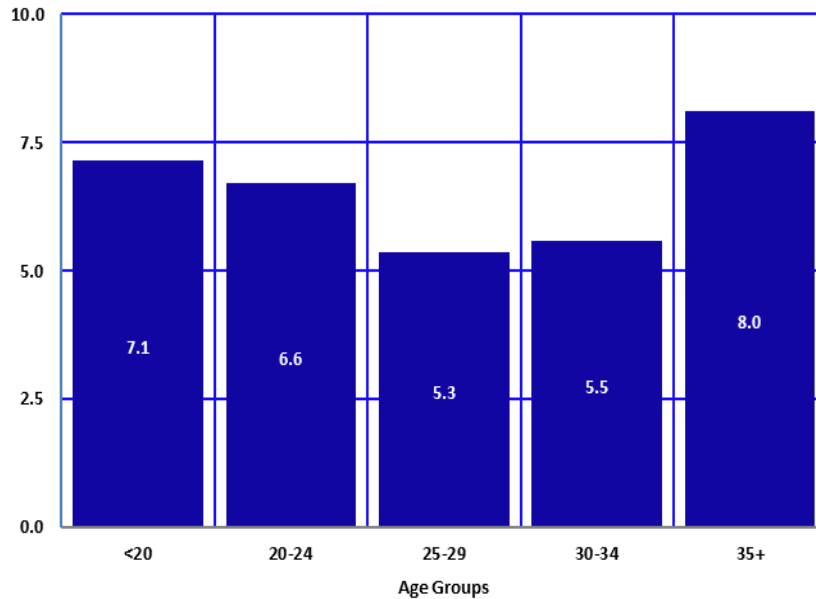
**Figure 1C-5**  
**Fetal Mortality Rates by Race/Ethnicity, Arizona, 2020**



Fetal mortality rates vary by the race/ethnicity of the mother (**Figure 1C-5**). The fetal mortality rate for Black or African American women was 10.4 per 1,000 live births plus fetal deaths, the highest rate among the racial/ethnic groups. The fetal mortality rate was also higher than the state average for American Indian women (9.9) and Asian women (7.7) while the rates of White non-Hispanic (5.6) and Hispanic or Latino (5.5), were below the state average.

Note: \* Rate is the number of fetal deaths per 1,000 live births and fetal deaths.

**Figure 1C-6**  
**Fetal Mortality Rates by Mother's Age Group, Arizona, 2020**



Fetal mortality rates vary by maternal age (**Figure 1C-6**). In 2020 fetal mortality rates were lowest for women aged 25-29 years and highest for women aged 35 years and older. The fetal mortality rate for mothers aged 35 and older increased slightly from 7.7 in 2019 to 8.0 in 2020.

Note: \* Rate is the number of fetal deaths per 1,000 live births and fetal deaths.

**TABLE 1C-1  
MATERNAL DEATHS<sup>a</sup> BY AGE GROUP AND YEAR, ARIZONA, 2010-2020**

Year	Total maternal deaths <sup>b</sup>	Under <15	15-19	20-24	25-29	30-34	35-39	40-44	45+
2010	10†	0	*	*	*	*	*	*	*
2011	10†	0	*	*	*	0	*	*	0
2012	20†	0	0	0	*	*	*	*	*
2013	10†	0	0	*	*	*	*	0	*
2014	10†	0	*	0	*	0	*	*	*
2015	10†	0	0	0	*	0	*	*	0
2016	30†	0	*	*	*	7	*	*	0
2017	20†	0	*	*	*	*	9	*	0
2018	30†	0	0	*	*	9	6	*	9
2019	40†	0	0	*	6	10	11	*	9
2020	40†	0	*	*	9	12	8	*	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Maternal deaths are those assigned to complications of pregnancy, childbirth, and puerperium, category codes O00-O99 of the Tenth Revision of the *International Classification of Diseases*; <sup>b</sup> May include cases with unknown age.

**TABLE 1C-2  
MATERNAL DEATHS BY CAUSE AND YEAR, ARIZONA, 2010-2020**

Cause of death (ICD-9/ICD-10 codes)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>PREGNANCY WITH ABORTIVE OUTCOME (O00-O07)</b>	0	0	0	*	*	0	*	0	0	0	0
Ectopic pregnancy (O00)	0	0	0	0	*	0	0	0	0	0	0
<b>COMPLICATIONS MAINLY RELATED TO PREGNANCY (O10-O16)</b>	*	*	*	*	*	*	*	6	*	0	*
<b>COMPLICATIONS OCCURRING IN THE COURSE OF LABOR AND DELIVERY (O60-O75)</b>	0	0	0	*	0	*	0	0	*	0	*
<b>COMPLICATIONS OF THE PUERPERIUM<sup>a</sup> (O85-O92)</b>	*	*	7	0	0	*	*	6	*	*	*
<b>ALL OTHER</b>	*	*	8	*	7	*	20	11	30	40	35
<b>TOTAL</b>	10†	10†	20†	10†	10†	10†	30†	23	30†	40†	40†

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Complications following childbirth are category codes from Tenth Revision of the *International Classification of Diseases*.

**TABLE 1C-3  
FETAL AND PERINATAL DEATHS AND RATES BY YEAR, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>NUMBER OF ALL REPORTED FETAL DEATHS</b> Includes spontaneous and induced terminations of pregnancy at 20 or more weeks of gestation (or if gestational age unknown, the deaths of fetuses of at least 350 grams or more) and some stillbirths prior to 20 weeks and of any weight. Excludes fetal deaths occurring in Arizona to out-of-State residents.	671	714	654	775	885	861	615	605	588	640	620
<b>NUMBER OF REPORTABLE FETAL DEATHS</b> Includes spontaneous and induced terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight).	581	619	588	554	653	665	613	602	583	638	617
<b>NUMBER OF REPORTABLE SPONTANEOUS FETAL LOSSES</b> Includes spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight). Excludes induced terminations of pregnancy.	443	470	470	545	519	524	486	481	472	489	477
<b>RATE OF REPORTABLE SPONTANEOUS FETAL LOSSES<sup>a</sup></b>	<b>5.1</b>	<b>5.5</b>	<b>5.5</b>	<b>6.4</b>	<b>6.0</b>	<b>6.1</b>	<b>5.7</b>	<b>5.9</b>	<b>5.8</b>	<b>6.1</b>	<b>6.2</b>
<b>NUMBER OF PERINATAL DEATHS</b>	483	465	487	483	551	510	475	472	501	453	434
Spontaneous fetal losses of 28 or more weeks of gestation	214	216	221	262	265	275	236	238	247	247	223
Infant deaths of less than 7 days	269	249	266	221	286	235	239	234	254	206	211
<b>PERINATAL DEATH RATE<sup>b</sup></b>	<b>5.5</b>	<b>5.4</b>	<b>5.7</b>	<b>5.7</b>	<b>6.5</b>	<b>6.0</b>	<b>5.6</b>	<b>5.8</b>	<b>6.2</b>	<b>5.7</b>	<b>5.6</b>

Notes: <sup>a</sup> Per 1,000 live births + reportable spontaneous fetal losses of 20 or more weeks of gestation; <sup>b</sup> Per 1,000 live births + spontaneous fetal losses of 28 or more weeks of gestation.

**TABLE 1C-4  
SELECTED CHARACTERISTICS OF REPORTABLE SPONTANEOUS<sup>a</sup> FETAL LOSSES BY YEAR, ARIZONA, 2010-2020**

Characteristic	Year										
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Total reportable spontaneous fetal losses</b>	443	470	470	545	519	524	486	481	472	489	477
<b>Gender</b>											
Male	229	218	239	260	293	296	248	226	222	271	236
Female	208	245	222	256	222	225	227	234	246	215	219
Unknown	6	7	9	29	*	*	11	21	*	*	22
<b>Mother's race/ethnicity</b>											
White non-Hispanic	156	192	195	247	205	200	204	207	205	187	186
Hispanic or Latino	198	181	181	205	182	227	195	171	174	196	177
Black or African American	39	27	36	40	48	50	47	47	42	58	50
American Indian or Alaska Native	30	43	43	40	47	40	36	40	36	37	41
Asian or Pacific Islander	17	27	15	13	17	7	*	16	15	11	23
Refused/Unknown	*	0	0	0	20	0	0	0	0	0	0
<b>Mother's age group</b>											
<15	*	0	*	0	0	0	0	0	0	0	*
15-17	18	14	16	18	25	18	10	7	8	7	10
18-19	33	35	37	34	27	30	27	25	16	26	16
20-24	104	117	130	115	120	101	94	104	85	89	107
25-29	114	111	100	159	131	135	123	118	138	132	123
30-34	74	114	98	123	117	122	121	125	125	133	116
35-39	75	56	58	79	67	83	71	75	75	76	86
40-44	20	22	27	13	30	27	36	18	22	24	14
45+	*	*	*	*	0	*	*	*	*	0	*
Unknown	*	0	*	*	*	*	*	6	0	*	0
<b>Gestational age<sup>b</sup></b>											
20-27 weeks	227	255	248	282	250	248	239	241	223	242	254
28+ weeks	214	215	221	262	265	275	236	238	247	247	223
Unknown	*	0	*	*	*	*	11	*	*	0	0
<b>Weight in grams</b>											
<350 grams	105	96	119	108	99	117	97	99	93	120	103
350-499	66	80	68	73	74	75	77	75	60	61	73
500-2,499	173	193	179	229	236	216	217	199	216	202	210
2,500-3,999	74	80	87	103	85	85	77	81	91	95	71
4,000+	20	11	14	6	9	9	6	14	8	7	12
Unknown	*	10	*	26	16	22	12	13	*	*	8

Notes: \* Cell suppressed due to non-zero count less than 6; <sup>a</sup> Includes spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight), excludes abortions; <sup>b</sup> For statistical purposes, fetal deaths are classified according to gestational age; a death that occurs at 20 or more weeks of gestation constitutes a fetal death, and after 28 weeks it is considered a late fetal death.







## **1D.**

### **ABORTIONS**

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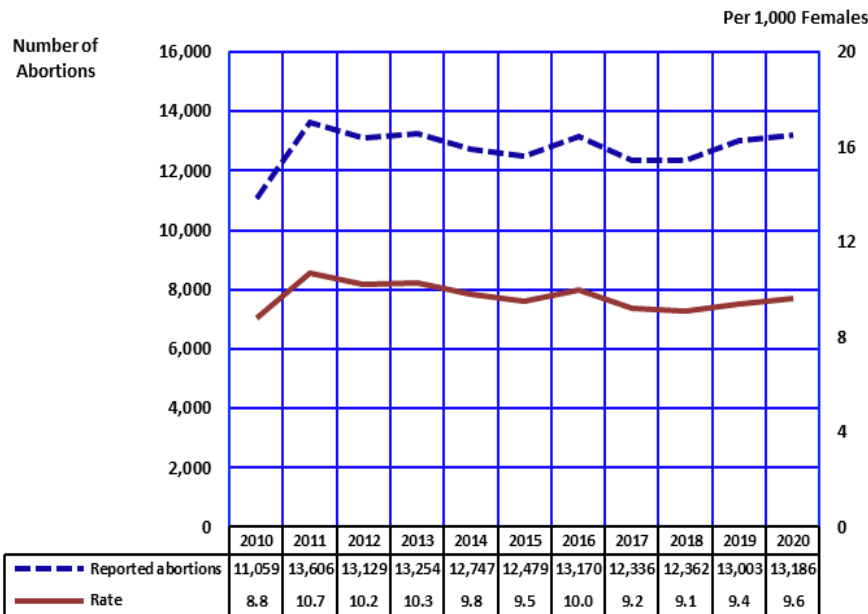
The Arizona Department of Health Services was authorized by Arizona Revised Statute §36-2161 to require healthcare facilities, providers, and physicians to submit abortion procedure reports to the department in order to develop statewide annual abortion statistics and demographic characteristics of women obtaining abortions in Arizona as required by the Arizona Revised Statute § 36-2163.

In 2010, SB1304 was passed by the legislature that statutorily required the reporting of abortions and treatment of complications associated with abortions. In addition, the Administrative Office of the Courts was required to report the number of petitions received by the court for authorization to perform abortions on unemancipated minors as prescribed in Arizona Revised Statutes §36-2152. The collection of this information began on July 29, 2010.

Based on the information collected on race/ethnicity in the abortion reporting system, the racial/ethnic groups described in this section differ from that of other sections. In 2020, 2.4 percent (314) of abortion records had race and ethnicity identified as unknown, and 2.5 percent (323) of abortion records had two or more racial/ethnic groups identified. Due to the proportion of information on race/ethnicity that could not be categorized by the five racial/ethnic groups used through this report, this section reports numbers for records with unknown or multiple race information as separate groups.

## 1D. ABORTIONS

**Figure 1D-1**  
**Number of Reported Abortions and Abortion Rates<sup>a</sup> by Year,**  
**Arizona Residents, 2010-2020**



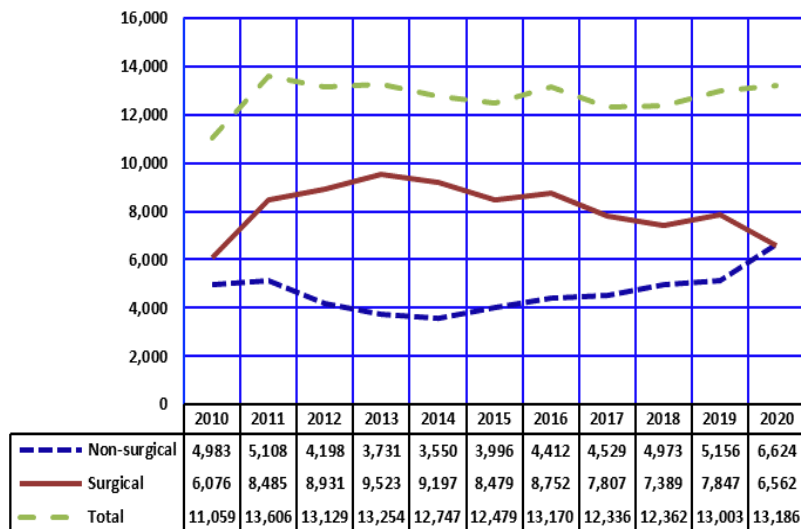
During calendar year 2020, the Arizona Department of Health Services received a total of 13,186 reports of abortions obtained by Arizona residents, 183 more than the 13,003 reported in 2019 (**Figure 1-D1, Table 1D-1**).

There were 13,140 abortions in non-hospital clinics (**Table 1D-1**). Hospitals accounted for 41 abortion procedures, with less than 6 procedures being performed outside of clinics and hospitals.

Ninety-one percent of all reported abortions occurred at or before 13 weeks of pregnancy. Few reported abortions occurred after 14 or more weeks of gestation (**Table 1D-3**).

Notes: <sup>a</sup> Number of abortions per 1,000 females 15-44 years old. The sharp increase in number of reported abortions and rates was due to enhanced surveillance as noted in the abortion report.

**Figure 1D-2**  
**Trends in the Number of Surgical and Non-Surgical Abortions by Year,**  
**Arizona Residents, 2010-2020**

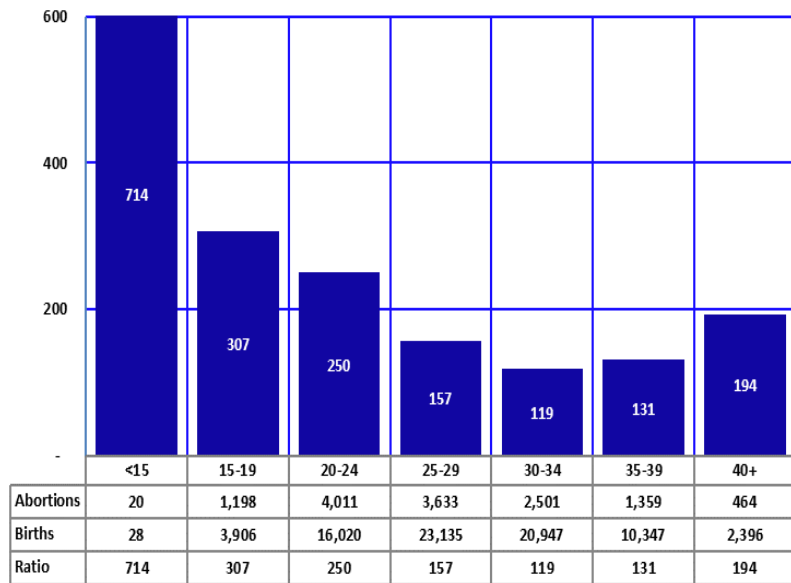


The rate of induced terminations of pregnancy per 1,000 female residents aged 15-44 increased from 9.4 in 2019 to 9.6 in 2020 (**Figure 1D-1**).

Trends in the percent of abortions conducted through surgical and non-surgical from 2010 to 2020 indicate shifting practices in methods used to complete abortions. In 2010, 54.9 percent of all abortion procedures were surgical procedures. Since then, the proportion of abortions conducted through surgical means has decreased, with 49.8 percent of all abortion procedures conducted in 2020 being surgical procedures.

## 1D. ABORTIONS

**Figure 1D-3**  
Abortion Ratios<sup>a</sup> by Age Group, Arizona Residents, 2020

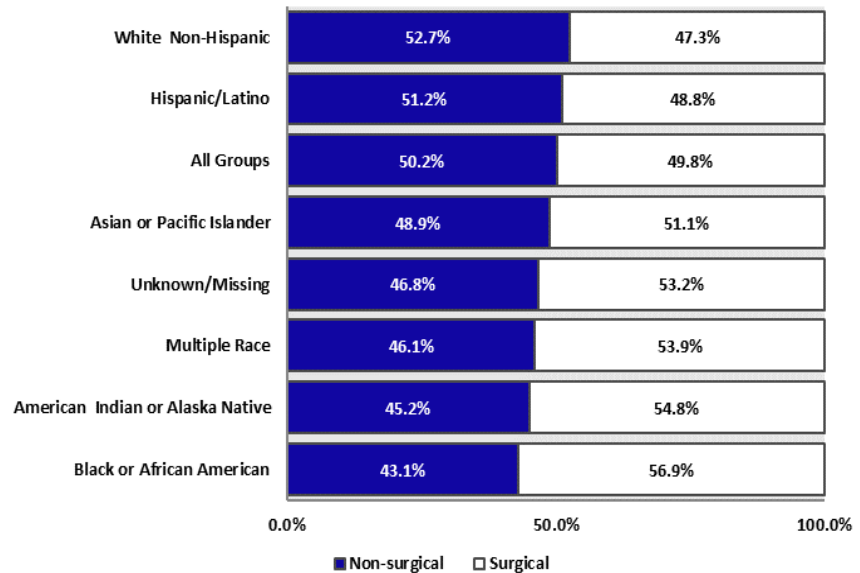


Abortion ratios (the number of abortions per 1,000 live births in each age group) vary by age at reported termination of pregnancy. Ratios tend to be higher at the extremes of the age distribution of the childbearing period, i.e., among women under age 15 and those aged 40 years or older (**Figure 1D-3**).

A comparison of abortion ratios by race/ethnicity is provided in **Table 1D-2**.

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

**Figure 1D-4**  
Proportional Contribution of Non-Surgical<sup>a</sup> and Surgical Abortions by Race/Ethnicity, Arizona Residents, 2020



In 2020, non-surgical (also called “medical”) abortions made up 50.2 percent of all procedures reported in Arizona. The proportion of non-surgical abortion was the highest among White non-Hispanic, and exceeded the average for all groups (**Figure 1D-4**). The proportion of surgical abortions was highest among Black or African American women than women of other racial/ethnic groups.

Notes: <sup>a</sup> Non-surgical: Mifepristone, Methotrexate, Cytotec, etc.; Reporting changes related to race/ethnicity makes comparisons with previous years difficult.

**TABLE 1D-1  
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 2010-2020**

Characteristics	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ABORTIONS PERFORMED IN ARIZONA</b>	11,438	14,401	13,340	13,401	12,900	12,655	13,332	12,533	12,438	13,097	13,273
<b>RESIDENT ABORTIONS</b>	11,059	13,606	13,129	13,254	12,747	12,479	13,170	12,336	12,362	13,003	13,186
<b>RACE/ETHNICITY</b>											
White non-Hispanic	5,241	2,385	1,904	2,515	5,562	5,378	5,321	4,762	4,807	4,798	4,684
Hispanic or Latino	3,422	4,274	3,393	4,189	4,499	4,350	4,823	4,639	4,679	5,093	5,349
Black or African American	476	145	116	189	981	1,074	1,253	1,196	1,229	1,372	1,594
American Indian	218	48	38	61	291	331	340	348	315	344	372
Asian or other Pacific Islander	254	47	75	110	534	532	608	598	552	612	550
Multiple race <sup>a</sup>	NA	4,442	2,985	4,257	361	175	244	216	259	290	323
Refused/Unknown	1,448	2,265	4,618	1,933	519	639	581	577	521	494	314
<b>AGE</b>											
19 years and under	1,512	1,785	1,539	1,441	1,249	1,189	1,297	1,179	1,146	1,169	1,218
20-29 years	6,278	7,814	7,602	7,676	7,520	7,265	7,680	7,245	7,212	7,520	7,644
30 years and over	3,113	4,007	3,987	4,136	3,978	4,021	4,186	3,912	4,004	4,314	4,324
Not stated	156	NA	*	*	0	*	7	0	0	0	0
<b>YEARS OF EDUCATION</b>											
Elementary/secondary (1-12)	4,316	4,757	3,615	2,400	1,372	2,561	3,234	3,228	3,457	3,971	3,820
College (1-4 or 5+)	3,199	2,252	2,518	2,522	2,706	3,203	3,801	3,365	2,966	3,355	3,045
Not stated or unknown	3,544	6,597	6,996	8,332	8,064	6,715	6,135	5,743	5,939	5,677	6,321
<b>WEEKS OF GESTATION</b>											
12 weeks or under	9,967	12,156	11,677	11,767	11,232	11,062	11,762	10,917	10,924	11,510	11,708
13 weeks or over	948	1,427	1,432	1,487	1,507	1,411	1,396	1,419	1,438	1,493	1,478
Not stated or unknown	144	23	20	0	8	6	12	0	0	0	0
<b>FACILITY</b>											
Clinic	9,689	14,358	13,072	13,023	12,671	12,065	13,139	12,301	12,308	12,957	13,140
Hospital	16	42	54	152	70	24	27	31	51	41	41
Other	<sup>d</sup> 1,354	0	*	79	6	390	*	*	*	*	*

**TABLE 1D-1 (continued)  
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 2010-2020**

Characteristics	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>PREVIOUS LIVE BIRTHS</b>											
None	4,867	5,820	5,829	5,810	5,201	5,267	5,586	5,326	5,430	5,656	5,705
One or more	6,178	7,772	7,280	7,387	7,337	7,187	7,542	6,972	6,856	7,212	7,365
<b>PREVIOUS ABORTIONS</b>											
None	6,746	8,382	8,445	8,450	7,872	7,843	8,177	7,900	7,893	8,406	8,503
One or more	4,282	5,183	4,616	4,672	4,616	4,549	4,913	4,365	4,346	4,424	4,533
<b>PREVIOUS SPONTANEOUS TERMINATIONS OF PREGNANCY</b>											
None	9,300	11,257	10,941	10,825	10,241	10,146	10,462	9,930	9,932	10,460	10,532
One or more	1,643	2,301	2,108	2,283	2,213	2,220	2,613	2,307	2,302	2,324	2,456
<b>NONSURGICAL ABORTIONS</b>											
	4,983	5,108	4,198	3,731	3,550	3,996	4,412	4,529	4,973	5,156	6,624
<b>ABORTION RATIO<sup>b</sup></b>	<b>127.0</b>	<b>159.7</b>	<b>153.2</b>	<b>156.0</b>	<b>147.1</b>	<b>146.8</b>	<b>156.0</b>	<b>151.1</b>	<b>153.5</b>	<b>164.2</b>	<b>171.7</b>
<b>ABORTION RATE<sup>c</sup></b>	<b>8.8</b>	<b>10.7</b>	<b>10.2</b>	<b>10.3</b>	<b>9.8</b>	<b>9.5</b>	<b>10.0</b>	<b>9.2</b>	<b>9.1</b>	<b>9.4</b>	<b>9.6</b>

Notes: \* Cell suppressed due to count less than 6; <sup>a</sup> Multiple race data was not available for previous years (2007-2010); <sup>b</sup> Number of abortions per 1,000 women giving birth; <sup>c</sup> Number of abortions per 1,000 women of childbearing age (15 - 44 years old); <sup>d</sup> Outpatient Surgical Centers in 2010.

**TABLE 1D-2  
PROPORTION, RATES, AND RATIOS<sup>3</sup> OF ABORTIONS BY RACE/ETHNICITY PER YEAR, ARIZONA, 2010-2020**

Race and Ethnicity	Year										
	2010	2011 <sup>e</sup>	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Percent of Abortions<sup>b</sup></b>											
White non-Hispanic	47.4	17.5	14.5	19.0	43.6	43.1	40.4	38.6	38.9	36.9	35.5
Hispanic or Latino	30.9	31.4	25.8	31.6	35.3	34.9	36.6	37.6	37.8	39.2	40.6
Black or African American	4.3	1.1	0.9	1.4	7.7	8.6	9.5	9.7	9.9	10.6	12.1
American Indian or Alaska Native	2.0	0.4	0.3	0.5	2.3	2.7	2.6	2.8	2.5	2.6	2.8
Asian or Pacific Islander	2.3	0.3	0.6	0.8	4.2	4.3	4.6	4.8	4.5	4.7	4.2
Multiple races	NA	32.6	22.7	32.1	2.8	1.4	1.9	1.8	2.1	2.2	2.5
Refused/Unknown	13.1	16.6	35.2	14.6	4.1	5.1	4.4	4.7	4.2	3.8	2.4
<b>Abortion Rates<sup>c</sup></b>											
White non-Hispanic	8.2	3.7	2.9	3.8	8.6	8.3	8.3	7.4	7.5	7.4	7.3
Hispanic or Latino	8.0	9.9	7.7	9.3	10.6	9.1	9.9	9.3	9.2	9.7	10.2
Black or African American	8.5	2.5	2.0	3.2	12.8	16.3	18.4	17.0	16.8	18.0	20.2
American Indian or Alaska Native	3.2	0.6	0.6	0.9	3.4	5.1	5.2	5.2	4.7	5.1	5.7
Asian or Pacific Islander	5.2	0.9	1.6	2.3	8.5	9.2	10.1	9.9	8.8	9.1	8.1
Multiple races	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Refused/Unknown	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Abortion Ratio<sup>d</sup></b>											
White non-Hispanic	135	62	49	66	139	141	141	133	138	141	142
Hispanic or Latino	100	132	102	127	133	127	142	140	142	156	168
Black or African American	110	33	25	40	217	246	286	260	264	282	334
American Indian or Alaska Native	37	8	7	11	57	65	68	72	67	77	91
Asian or Pacific Islander	77	13	21	32	169	164	181	180	169	194	185
Multiple races	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Refused/Unknown	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes: <sup>a</sup> Number of resident abortions performed in Arizona per 1,000 resident live births in specified race/ethnicity group; <sup>b</sup> Proportion of total abortions by ethnicity and/or race represented as a percentage. Percentages are calculated using the total number of reported abortions as the denominator and the number of reported abortions for a specific ethnicity and/or race as the numerator. Percents do not add up to a 100 due to rounding errors, multiple race and unknown ethnicity/race categories; <sup>c</sup> Calculated using the number of abortions obtained by women, ages 15-44 in a given race and/or ethnic group per 1,000 women in the same group; <sup>d</sup> Calculated using the number of abortions per 1,000 live births; <sup>e</sup> Beginning 2011, rates and ratios should be interpreted with caution due to the addition of the Multiple Race and Unknown categories. Single race selections are the best estimates for rates and ratios.

**TABLE 1D-3  
ABORTIONS BY WEEK OF GESTATION AND AGE GROUP, ARIZONA, 2020**

Age	Gestational Age					
	≤13 weeks		14 to 20 weeks		≥21 or more weeks	
	Count	Percent	Count	Percent	Count	Percent
<15 yrs	14	70.0	6	30.0	0	0.0
15-19 yrs	1,053	87.9	122	10.2	23	1.9
20-24 yrs	3,660	91.2	303	7.6	48	1.2
25-29 yrs	3,349	92.2	254	7.0	30	0.8
30-34 yrs	2,291	91.6	172	6.9	38	1.5
35-39 yrs	1,227	90.3	105	7.7	27	2.0
≥40 yrs	433	93.3	28	6.0	*	**
<b>Totals</b>	<b>12,027</b>	<b>91.2</b>	<b>990</b>	<b>7.5</b>	<b>170†</b>	<b>1.3</b>

Notes: \* Cell suppressed due to count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to addend less than 6.

**TABLE 1D-4  
ABORTIONS BY WEEK OF GESTATION AND RACE/ETHNICITY, ARIZONA, 2020**

Week of gestation	Total	Race/ethnicity							Multiple race	Refused / Unknown race
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander				
<b>Total</b>	13,186	4,684	5,349	1,594	370†	550†	320†	310†		
<b>6 weeks or less</b>	3,771	1,452	1,442	406	73	197	80	121		
<b>7</b>	2,801	995	1,144	355	56	119	56	76		
<b>8</b>	1,892	666	803	227	55	61	44	36		
<b>9</b>	1,516	517	652	177	48	42	56	24		
<b>10</b>	784	263	332	103	33	25	16	12		
<b>11</b>	612	187	273	79	21	26	13	13		
<b>12</b>	332	108	139	44	11	12	16	*		
<b>13</b>	319	103	123	48	14	13	7	11		
<b>14</b>	263	83	106	38	12	11	10	*		
<b>15</b>	260	89	102	26	17	11	6	9		
<b>16</b>	130†	43	39	31	6	*	*	*		
<b>17</b>	80†	25	29	17	*	*	*	*		
<b>18</b>	90†	28	35	14	*	6	*	*		
<b>19</b>	90†	36	36	10	*	*	*	0		
<b>20</b>	70†	23	29	7	6	*	*	0		
<b>21+</b>	170†	66	65	12	8	12	*	*		

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6.