

# **CHAPTER 1**

## **REPRODUCTIVE AND PERINATAL HEALTH, ARIZONA, 2011-2021**

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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**

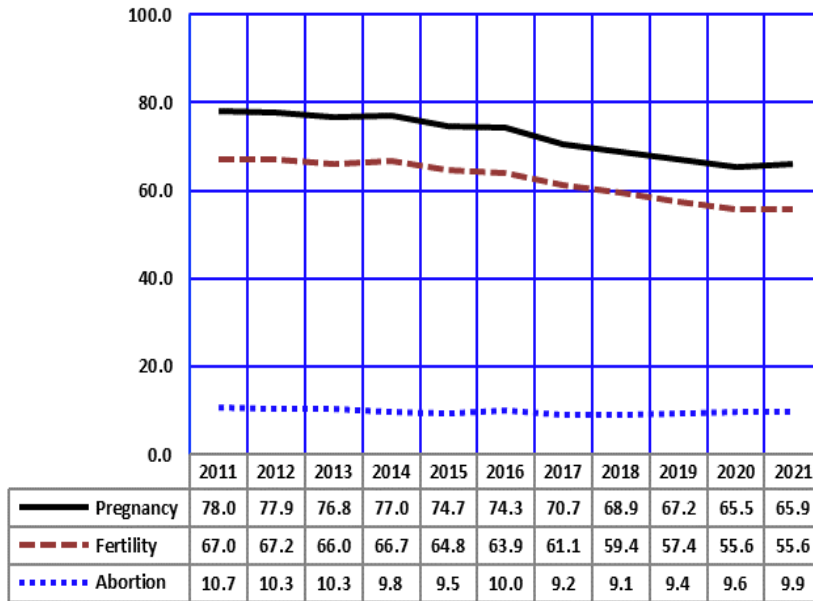
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The expression “reproductive and perinatal health” refers to a variety of health and sociodemographic characteristics of women who became pregnant, factors related to the course of their pregnancies, and the status of pregnancy outcomes. In this report, 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 92,280 pregnancies in 2021 compared to 90,444 pregnancies in Arizona in 2020, 98,060 in 2016, and 99,266 in 2011. The number of resident live births increased by 1.4 percent, from 76,781 in 2020 to 77,857 (**Table 1A-1**). The number of reported abortions increased by 5.4 percent, from 13,186 in 2020 to 13,896 in 2021. The number of reportable spontaneous fetal losses increased 10.5 percent, from 477 in 2020 to 527 in 2021.

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, 2011-2021**



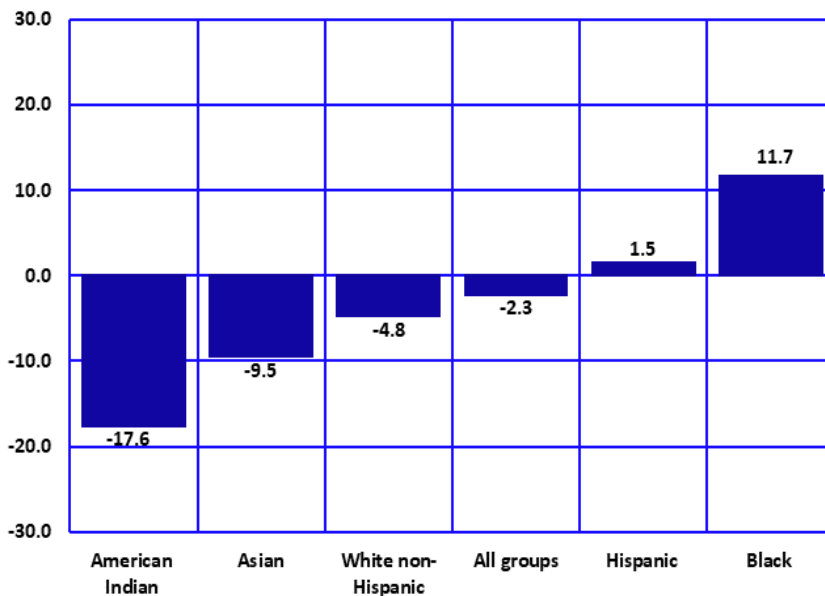
Note: <sup>a</sup> All rates per 1,000 females in specified age group.

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 slightly increased from 65.5 pregnancies per 1,000 females of childbearing age in 2020 to 65.9 pregnancies per 1,000 females of childbearing age in 2021 (**Figure 1A-1, Table 1A-1**).

The fertility rate (the number of births per 1,000 women of childbearing age) remained the same at 55.6 in 2020 and 2021. In 2021, the fertility rate was 17.0 percent lower than the high rate recorded in 2011.

The abortion rate (the number of abortions per 1,000 women of childbearing age) increased 3.1 percent, from 9.6 per 1,000 women of childbearing age in 2020 to 9.9 in 2021.

**Figure 1A-2**  
**Percent Change from 2017 to 2021 in the Number of Pregnancies by Woman's Race/Ethnicity, Arizona**



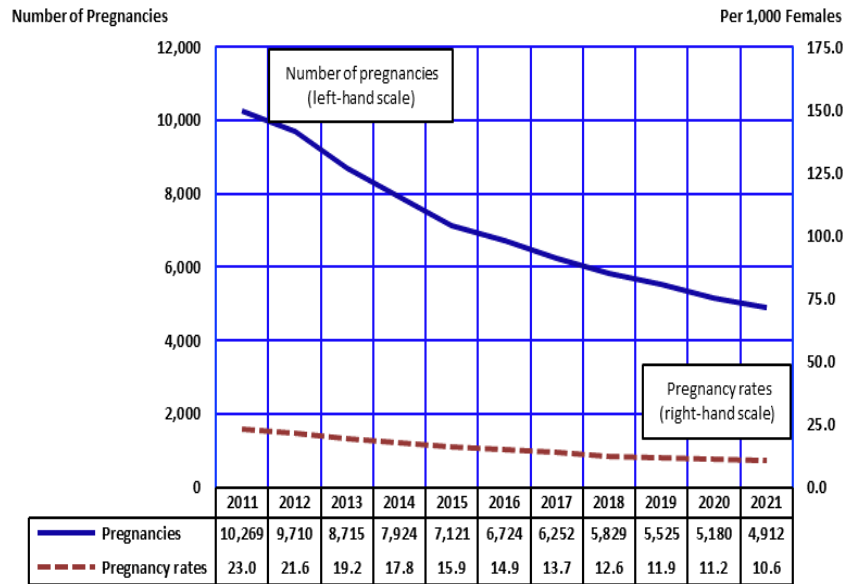
Overall, pregnancies in Arizona decreased 2.3 percent from 2017 to 2021. The changes in number of pregnancies varied by race/ethnicity. Between 2017 and 2021, while American Indian females (17.6 percent), Asian (9.5), and White non-Hispanic (4.8 percent), experienced a decrease in number of pregnancies, Black females (11.7 percent) and Hispanic (1.5) 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 52.2 percent from 10,269 in 2011 to 4,912 in 2021 (Figure 1A-3). The teen pregnancy rate declined even more, by 53.9 percent, from 23.0 pregnancies per 1,000 females 10-19 years in 2011 to 10.6 per 1,000 females in 2021. The number of teenage pregnancies and the teen pregnancy rate of 2021 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, 2011-2021

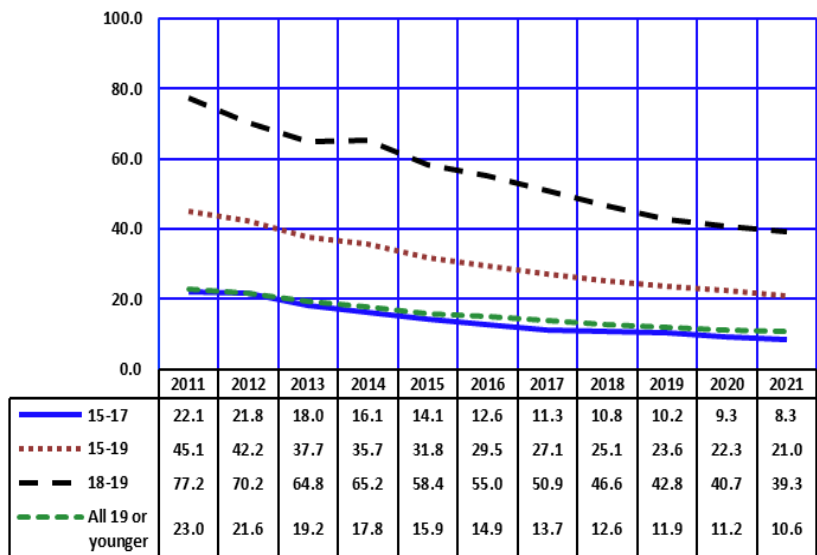


Note: <sup>a</sup> Pregnancy rate is the number of pregnancies per 1,000 females in specified age group.

The pregnancy rate for Arizona teenagers 15-19 years old in 2021 was 21.0 pregnancies per 1,000 females (Figure 1A-4, Table 5A-2), 5.8 percent lower than in 2020 and 53.4 percent lower than in 2011. The pregnancy rate for younger teenagers 15-17 years old declined by 62.4 percent (Table 1A-3) from 22.1/1,000 in 2011 to 8.3 /1,000 in 2021. The pregnancy rate for older teenagers 18-19 years old declined by 49.1 percent from 77.2/1,000 in 2011 to 39.3/1,000 in 2021 (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.

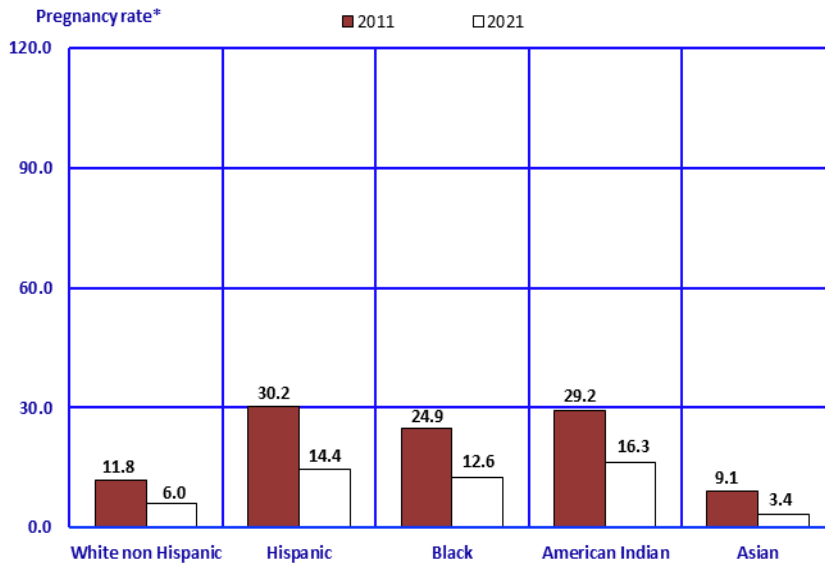
**Figure 1A-4**  
Pregnancy Rates<sup>a</sup> by Age Group and Year among Females 19 or Younger, Arizona, 2011-2021



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, 2011 and 2021**



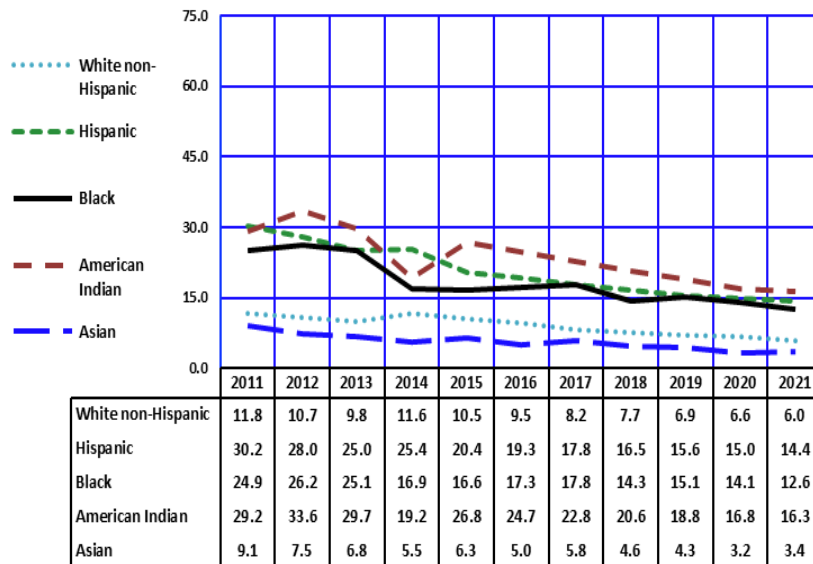
Teen pregnancy rates differ by race/ethnicity.

Between 2011 and 2021, 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 62.6 percent drop from 2011 to 2021. The Hispanic teenage pregnancy rate decreased greatly also, by 52.3 percent from 30.2 in 2011 to 14.4 in 2021.

The changes in annual teen pregnancy rates from 2011 to 2021 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, 2011-2021**



The teen pregnancy rates for all racial/ethnic groups were lower in 2021 than in 2011 (**Figure 1A-6**). Compared to 2011, the teen pregnancy rate declined substantially, by more than half when all racial/ethnic groups were combined.

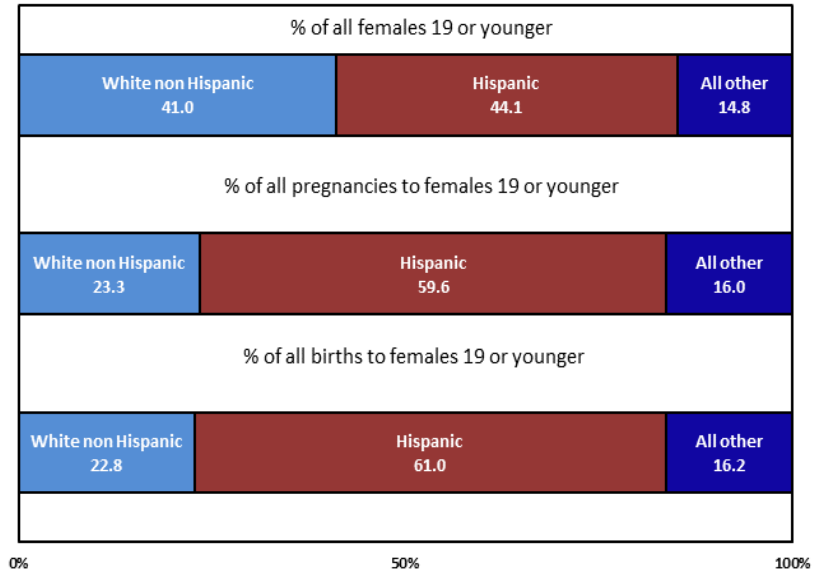
From 2020 to 2021, teenage pregnancy rates decreased for all race/ethnic groups except for Asians, which increased (6.2 percent). The decline was greater among Black females (10.6 percent), White non-Hispanic (9.1 percent), Hispanic (4.0 percent), and American Indian (3.0 percent).

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, 2021**

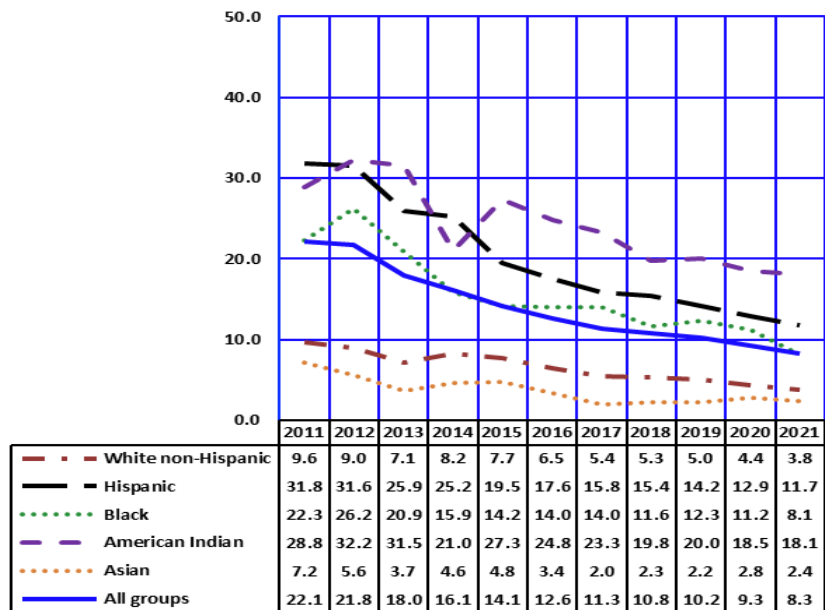
In 2021, Hispanic females accounted for approximately 44.1 percent of all females 10-19 years old in Arizona. As in the past, they accounted for a large percentage of teen pregnancies (59.6 percent) and live births (61.0 percent; **Figure 1A-7**). In contrast, White non-Hispanic females made up 41.0 percent of all females 10-19 years old in Arizona, but had a lower proportional contribution to teen pregnancies (23.3 percent) and live births (22.8 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: 2011-2021**

The 2021 pregnancy rate among females 15-17 was the highest in American Indian females at 18.1 pregnancies per 1,000 females in the specified age group. The pregnancy rate among females 15-17 years in 2021 were also lower than in 2020 for all race/ethnicity categories. This similarly follows a trend of a significant decline seen since 2011 in **(Figure 1A-8)**.



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, 2011-2021**

Race/ethnicity Pregnancy outcome	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2021 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	40,871	40,769	40,982	45,864	43,758	43,287	40,654	39,921	39,103	37,971	38,710	<b>59.6</b>
Births	38,294	38,670	38,220	40,097	38,180	37,762	35,685	34,909	34,118	33,101	33,851	<b>52.1</b>
Abortions	2,385	1,904	2,515	5,562	5,378	5,321	4,762	4,807	4,798	4,684	4,645	<b>7.1</b>
Fetal deaths	192	195	247	205	200	204	207	205	187	186	214	<b>0.3</b>
<b>HISPANIC OR LATINO, total:</b>	36,853	36,720	37,469	38,396	38,841	38,892	38,001	37,848	37,864	37,385	38,570	<b>72.1</b>
Births	32,398	33,146	33,075	33,715	34,264	33,874	33,191	32,995	32,575	31,859	32,288	<b>60.4</b>
Abortions	4,274	3,393	4,189	4,499	4,350	4,823	4,639	4,679	5,093	5,349	6,080	<b>11.4</b>
Fetal deaths	181	181	205	182	227	195	171	174	196	177	202	<b>0.4</b>
<b>BLACK OR AFRICAN AMERICAN<sup>d</sup>, total:</b>	4,538	4,867	4,955	5,551	5,485	5,688	5,838	5,926	6,295	6,410	6,521	<b>79.7</b>
Births	4,366	4,715	4,726	4,522	4,361	4,388	4,595	4,655	4,865	4,766	4,795	<b>58.6</b>
Abortions	145	116	189	981	1,074	1,253	1,196	1,229	1,372	1,594	1,662	<b>20.3</b>
Fetal deaths	27	36	40	48	50	47	47	42	58	50	64	<b>0.8</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE<sup>e</sup>, total:</b>	5,921	5,650	5,577	5,483	5,355	5,406	5,254	5,060	4,843	4,500	4,331	<b>65.7</b>
Births	5,830	5,569	5,476	5,145	4,984	5,030	4,866	4,709	4,462	4,087	3,906	<b>59.2</b>
Abortions	48	38	61	291	331	340	348	315	344	372	399	<b>6.0</b>
Fetal deaths	43	43	40	47	40	36	40	36	37	41	26	<b>0.4</b>
<b>ASIAN OR PACIFIC ISLANDER<sup>f</sup>, total:</b>	3,579	3,715	3,589	3,720	3,774	3,960 <sup>†</sup>	3,941	3,838	3,786	3,541	3,568	<b>51.8</b>
Births	3,505	3,625	3,466	3,169	3,235	3,350	3,327	3,271	3,163	2,968	3,017	<b>43.8</b>
Abortions	47	75	110	534	532	608	598	552	612	550	530	<b>7.7</b>
Fetal deaths	27	15	13	17	7	*	16	15	11	23	21	<b>0.3</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>g</sup>, total:</b>	99,266	99,324	98,762	99,914	98,027	98,060	94,481	93,373	92,675	90,444	92,280	<b>65.9</b>
Births	85,190	85,725	84,963	86,648	85,024	84,404	81,664	80,539	79,183	76,781	77,857	<b>55.6</b>
Abortions	13,606	13,129	13,254	12,747	12,479	13,170	12,336	12,362	13,003	13,186	13,896	<b>9.9</b>
Fetal deaths	470	470	545	519	524	486	481	472	489	477	527	<b>0.4</b>
<b>Pregnancy rate, total:</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>65.9</b>	
<b>Fertility rate<sup>h</sup></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>55.6</b>	
<b>Abortion rate</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>	<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> 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, 2011-2021**

Race/ethnicity Pregnancy outcome	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2021 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>												
Births	600	564	448	496	462	401	327	325	298	252	228	<b>1.5</b>
Abortions	507	483	373	352	344	291	225	217	218	167	157	<b>1.1</b>
	90	71	72	140	117	107	100	104	79	83	69	<b>0.5</b>
<b>HISPANIC OR LATINO, total:</b>												
Births	1,731	1,728	1,443	1,292	1,144	1,055	976	953	882	802	737	<b>4.5</b>
Abortions	1,528	1,574	1,291	1,138	1,000	909	837	812	733	672	587	<b>3.6</b>
	196	150	142	141	131	139	136	139	144	125	148	<b>0.9</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>												
Births	170†	174	140	145	106	111	111	94	100	91	72	<b>3.2</b>
Abortions	162	164	128	107	78	84	76	61	77	57	46	<b>2.1</b>
	*	9	9	36	27	27	34	31	22	32	25	<b>1.1</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>												
Births	310†	260†	260†	217	204	191	180†	147	147	128	132	<b>7.0</b>
Abortions	307	258	251	205	184	178	171	141	130	116	115	<b>6.1</b>
	*	*	*	7	17	13	*	6	14	9	16	<b>0.8</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>												
Births	30†	20†	20†	25	20†	20†	10†	10†	10†	10†	15	<b>1.1</b>
Abortions	28	18	13	14	17	12	7	10	7	11	7	<b>0.5</b>
	*	*	*	11	*	*	*	*	*	*	8	<b>0.6</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>												
Births	3,089	2,976	2,476	2,193	1,953	1,792	1,619	1,548	1,452	1,306	1,194	<b>3.3</b>
Abortions	2,548	2,497	2,056	1,816	1,623	1,474	1,316	1,241	1,165	1,023	912	<b>2.5</b>
	527	463	402	352	312	308	296	299	280	271	276	<b>0.8</b>
<b>Pregnancy rate, total:</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>3.3</b>	
<b>Fertility rate<sup>e</sup></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>2.5</b>	
<b>Abortion rate</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>	<b>0.8</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 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, 2011-2021**

Race/ethnicity Pregnancy outcome	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2021 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	577	549	434	481	451	382	319	310	290	246	213	<b>3.8</b>
Births	494	475	365	344	339	283	224	213	214	166	147	<b>2.6</b>
Abortions	80	65	66	133	111	96	93	93	75	78	64	<b>1.1</b>
<b>HISPANIC OR LATINO, total:</b>	1,653	1,670	1,390	1,262	1,103	1,015	936	925	852	767	707	<b>11.7</b>
Births	1,467	1,528	1,244	1,115	972	877	816	795	711	650	566	<b>9.4</b>
Abortions	179	138	136	134	118	131	117	128	136	113	140	<b>2.3</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	160†	166	133	138	103	104	105	90	96	88	65	<b>8.1</b>
Births	152	159	122	102	77	81	71	60	73	56	43	<b>5.3</b>
Abortions	*	6	8	34	25	23	33	28	22	31	21	<b>2.6</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	300†	250†	250†	210†	193	178	170†	140†	136	123	124	<b>18.1</b>
Births	293	251	243	196	177	167	163	134	124	112	108	<b>15.8</b>
Abortions	*	*	*	*	13	11	*	*	12	8	15	<b>2.2</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	26	20†	10†	23	20†	20†	10†	10†	10†	10†	10†	<b>2.4</b>
Births	26	17	11	13	17	12	6	10	7	11	*	<b>**</b>
Abortions	0	*	*	10	*	*	*	*	*	*	7	<b>1.4</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	2,939	2,860	2,385	2,125	1,887	1,707	1,554	1,491	1,401	1,256	1,131	<b>8.3</b>
Births	2,447	2,430	1,985	1,770	1,582	1,420	1,280	1,212	1,129	995	869	<b>6.4</b>
Abortions	478	414	382	330	287	277	267	271	265	251	257	<b>1.9</b>
<b>Pregnancy rate, total:</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>8.3</b>	
<b>Fertility rate<sup>e</sup></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>6.4</b>	
<b>Abortion rate</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>	<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, 2011-2021**

Race/ethnicity Pregnancy outcome	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2021 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	1,792	1,675	1,602	1,759	1,562	1,433	1,248	1,170	1,043	1,000	915	<b>22.8</b>
Births	1,582	1,494	1,408	1,405	1,187	1,056	939	872	781	724	659	<b>16.5</b>
Abortions	199	167	185	348	371	369	300	292	256	276	249	<b>6.2</b>
<b>HISPANIC OR LATINO, total:</b>	3,566	3,357	3,175	3,078	2,764	2,668	2,537	2,377	2,308	2,234	2,190	<b>53.6</b>
Births	3,103	3,053	2,789	2,675	2,409	2,227	2,137	1,982	1,861	1,741	1,596	<b>39.0</b>
Abortions	442	291	367	390	336	425	390	389	437	486	582	<b>14.2</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	413	390 <sup>†</sup>	397	345	294	320	339	278	305	293	280	<b>49.3</b>
Births	399	380	379	287	234	232	253	210	203	200	171	<b>30.1</b>
Abortions	13	*	14	54	58	86	83	65	98	92	102	<b>18.0</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	690 <sup>†</sup>	640 <sup>†</sup>	530 <sup>†</sup>	417	423	388	369	347	309	263	246	<b>56.1</b>
Births	680	632	524	397	385	362	348	322	280	226	227	<b>51.8</b>
Abortions	*	*	*	18	34	25	18	25	24	30	18	<b>4.1</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	90 <sup>†</sup>	68	70 <sup>†</sup>	67	72	61	79	62	62	41	43	<b>11.9</b>
Births	83	61	66	43	46	39	48	32	33	20	15	<b>4.2</b>
Abortions	*	7	*	24	25	22	31	30	28	20	28	<b>7.8</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	7,180	6,734	6,239	5,731	5,168	4,932	4,633	4,281	4,073	3,874	3,718	<b>39.3</b>
Births	5,887	5,620	5,166	4,807	4,261	3,916	3,725	3,418	3,158	2,911	2,668	<b>28.2</b>
Abortions	1,258	1,077	1,039	897	877	989	883	847	889	947	1,023	<b>10.8</b>
<b>Pregnancy rate, total:</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>39.3</b>	
<b>Fertility rate<sup>e</sup></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>28.2</b>	
<b>Abortion rate</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>	<b>10.8</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, 2011-2021**

Race/ethnicity Pregnancy outcome	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2021 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	2,392	2,239	2,050	2,255	2,024	1,834	1,575	1,495	1,341	1,252	1,143	<b>6.0</b>
Births	2,089	1,977	1,781	1,757	1,531	1,347	1,164	1,089	999	891	816	<b>4.3</b>
Abortions	289	238	257	488	488	476	400	396	335	359	318	<b>1.7</b>
<b>HISPANIC OR LATINO, total:</b>	5,297	5,085	4,618	4,370	3,908	3,723	3,513	3,330	3,190	3,036	2,927	<b>14.4</b>
Births	4,631	4,627	4,080	3,813	3,409	3,136	2,974	2,794	2,594	2,413	2,183	<b>10.7</b>
Abortions	638	441	509	531	467	564	526	528	581	611	730	<b>3.6</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	580	562	537	490	400	431	450	372	405	384	352	<b>12.6</b>
Births	561	544	507	394	312	316	329	271	280	257	217	<b>7.8</b>
Abortions	17	14	23	90	85	113	117	96	120	124	127	<b>4.5</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	1,000†	900†	787	634	627	579	546	495	453	391	378	<b>16.3</b>
Births	987	890	775	602	569	540	519	463	410	342	342	<b>14.7</b>
Abortions	*	*	8	25	51	38	23	31	38	39	34	<b>1.5</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	120†	88	80†	92	92	77	89	74	73	55	58	<b>3.4</b>
Births	111	79	79	57	63	51	55	42	40	31	22	<b>1.3</b>
Abortions	*	9	*	35	28	26	34	32	32	23	36	<b>2.1</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	10,269	9,710	8,715	7,924	7,121	6,724	6,252	5,829	5,525	5,180	4,912	<b>10.6</b>
Births	8,435	8,117	7,222	6,623	5,884	5,390	5,041	4,659	4,323	3,934	3,580	<b>7.8</b>
Abortions	1,785	1,539	1,441	1,249	1,189	1,297	1,179	1,146	1,169	1,218	1,299	<b>2.8</b>
<b>Pregnancy rate, total:</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>10.6</b>	
<b>Fertility rate<sup>e</sup></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>7.8</b>	
<b>Abortion rate</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>	<b>2.8</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, 2021  
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	92,280	60†	1,130†	3,718	20,079	27,542	24,513	12,182	2,821	230†	0†
Births	77,857	43	869	2,668	15,687	23,617	21,794	10,664	2,317	196	*
Abortions <sup>b</sup>	13,896	19	257	1,023	4,284	3,783	2,584	1,437	478	31	0
Fetal deaths	530†	*	*	27	108	142	135	81	26	*	*
<b>White non Hispanic</b>											
Total pregnancies	38,710	20†	210†	915	6,497	11,517	12,012	6,097	1,320	122	0†
Births	33,850†	10	147	659	5,173	10,189	11,003	5,452	1,106	110	*
Abortions <sup>b</sup>	4,645	*	64	249	1,288	1,275	948	601	203	12	0
Fetal deaths	210†	0	*	7	36	53	61	44	11	0	0
<b>Hispanic or Latino</b>											
Total pregnancies	38,570	30†	710†	2,190	10,431	11,843	8,454	3,880	968	70†	0
Births	32,288	21	566	1,596	8,264	10,176	7,421	3,381	812	51	0
Abortions <sup>b</sup>	6,080	8	140	582	2,117	1,607	983	479	149	15	0
Fetal deaths	200†	*	*	12	50	60	50	20	7	*	0
<b>Black or African American</b>											
Total pregnancies	6,521	10†	70†	280	1,551	1,961	1,632	810	200†	10†	0
Births	4,800†	*	43	171	1,054	1,441	1,268	643	159	13	0
Abortions <sup>b</sup>	1,660†	*	21	102	481	501	352	161	39	*	0
Fetal deaths	60†	0	*	7	16	19	12	6	*	0	0
<b>American Indian or Alaska Native</b>											
Total pregnancies	4,331	10†	120†	250†	1,104	1,252	1,000†	480†	110†	10†	0†
Births	3,910†	7	108	227	959	1,126	931	449	94	*	0
Abortions <sup>b</sup>	400†	*	15	18	139	118	68	25	13	*	0
Fetal deaths	30†	0	*	*	6	8	*	*	*	0	*
<b>Asian or Pacific Islander</b>											
Total pregnancies	3,570†	0†	10†	43	332	810†	1,300	855	200†	17	0
Births	3,020†	*	*	15	237	685	1,171	739	146	17	0
Abortions <sup>b</sup>	530†	*	7	28	95	123	122	108	46	0	0
Fetal deaths	20†	0	0	0	0	*	7	8	*	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, 2021**

Age	Population	PREGNANCIES BY OUTCOME			TOTAL PREGNANCIES	
		Live births	Abortions	Spontaneous fetal losses	Number	Rate
<b>10</b>	44,227	0	0	0	0	<b>0.0</b>
<b>11</b>	45,070	0	0	0	0	<b>0.0</b>
<b>12</b>	47,095	0	0	0	0	<b>0.0</b>
<b>13</b>	47,190	9	*	*	15	<b>0.3</b>
<b>14</b>	46,500	34	14	0	48	<b>1.0</b>
<b>10-14</b>	230,082	43	19	*	63	<b>0.3</b>
<b>15</b>	46,179	100	41	0	141	<b>3.1</b>
<b>16</b>	45,967	232	77	*	310	<b>6.7</b>
<b>17</b>	44,627	537	139	*	680	<b>15.2</b>
<b>15-17</b>	136,773	869	257	*	1,131	<b>8.3</b>
<b>18</b>	46,783	969	408	9	1,386	<b>29.6</b>
<b>19</b>	47,834	1,699	615	18	2,332	<b>48.8</b>
<b>18-19</b>	94,617	2,668	1,023	27	3,718	<b>39.3</b>
<b>Total 10-19</b>	461,472	3,580	1,300 <sup>†</sup>	30 <sup>†</sup>	4,912	<b>10.6</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> Rates per 1,000 female population in specific group.



**1B.**

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

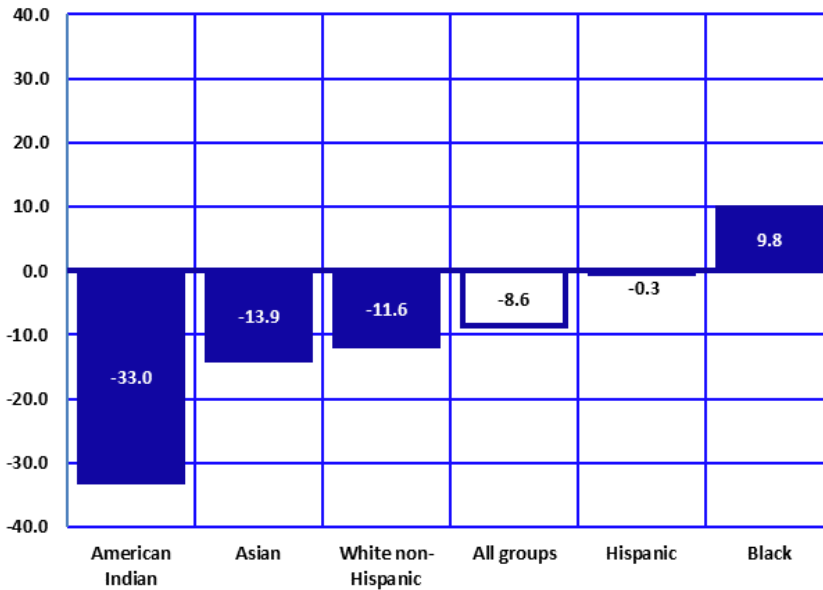
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From 2020 to 2021, the number of residents' births increased by 1.4 percent from 76,781 (2020) to 77,857 (2021), representing an increase of 1,076 births.

There were striking differences in how the number of births changed from 2011 to 2021 by mother's race/ethnicity. Compared to 2011, the number of births for all combined racial/ethnic groups was 8.6 percent lower in 2021. Taken separately, while the number of births rose by 9.8 percent for Black or African American mothers between 2011 and 2021, the remaining racial/ethnic groups witnessed a decline in their birth counts, with American Indian women experiencing most of the decrease (33.0) during the period of time under consideration (**Figure 1B-1**).

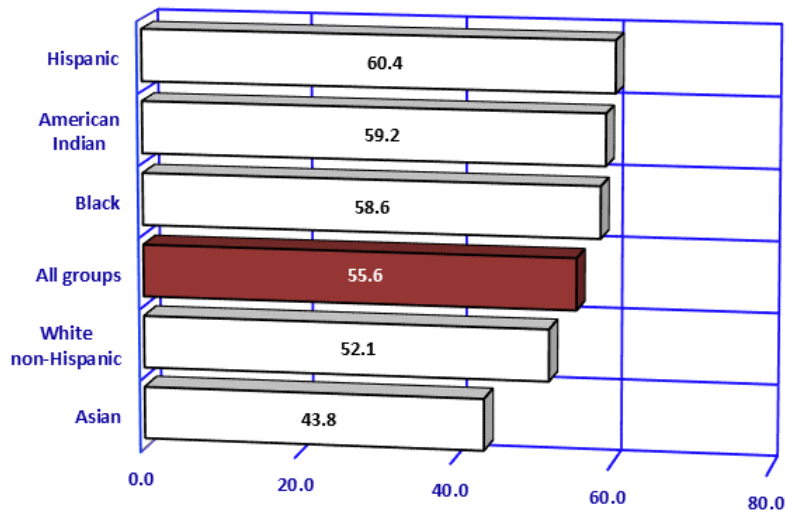
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-1**  
**Percent Change from 2011 to 2021 in the Number of Resident Live Births by**  
**Mother's Race/Ethnicity, Arizona**



From 2011 to 2021, the number of resident live births declined by 8.6 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 (33.0 percent) and Asians (13.9 percent).

**Figure 1B-2**  
**General Fertility Rates<sup>a</sup> by Race/Ethnicity among Females of all Ages,**  
**Arizona, 2021**



From among 1,400,998 women of childbearing age (15-44 years), 77,616 (99.7 percent) of 77,857 total births in 2021 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 Hispanic females followed by American Indian 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**.

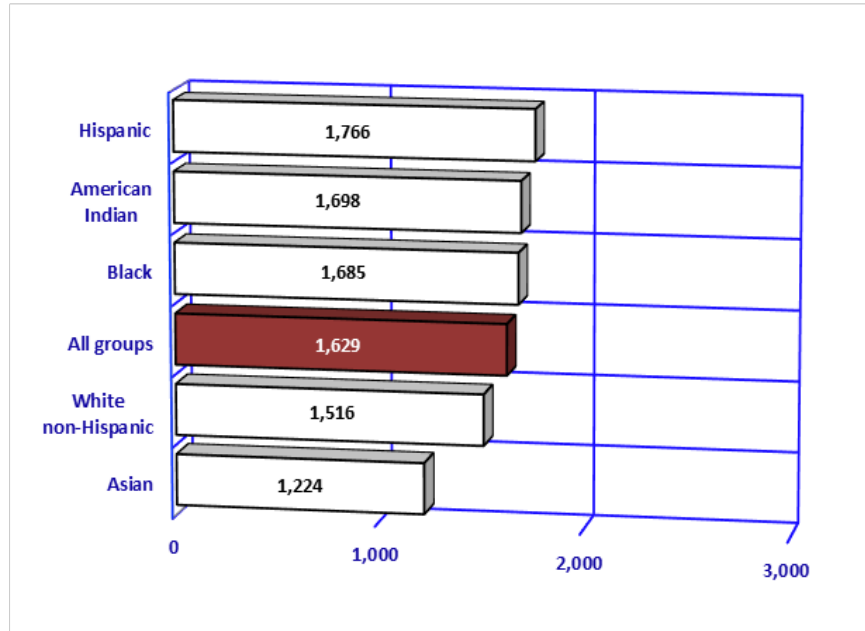
Note: <sup>a</sup> Number of births per 1,000 females 15-44 years old in specified group.



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

**Figure 1B-3**  
Total Fertility Rates<sup>a</sup> by Race/Ethnicity, Arizona, 2021

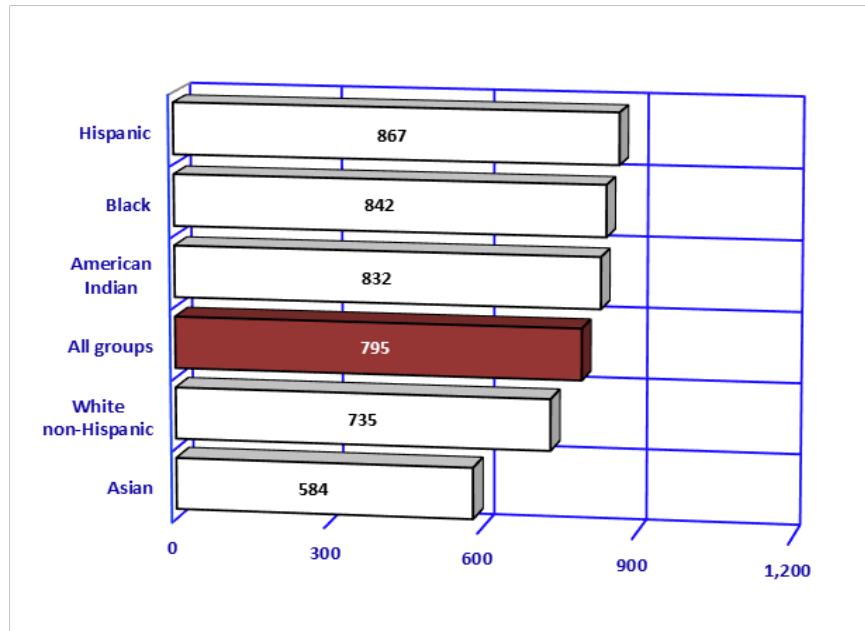
The *total fertility rate* (TFR) indicates the average number of births to a hypothetical cohort of 1,000 women, if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. From 2003 to 2008, Arizona's TFRs always exceeded the rate of "replacement" (2,110 births per 1,000 women). The "replacement" rate is considered the value at which a given generation can exactly replace itself. The TFR was 2,001 births per 1,000 women of childbearing age in 2011, decreasing to 1,629 in 2021 (**Table 1B-1**). In 2021, The TFR for Hispanic women (1,766) was the highest of all racial/ethnic groups and was still 16.3 percent lower than the generation replacement rate. The rate for Asian women (1,224), 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 1,629 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 2021, they would have a total of 1,629 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, 2021

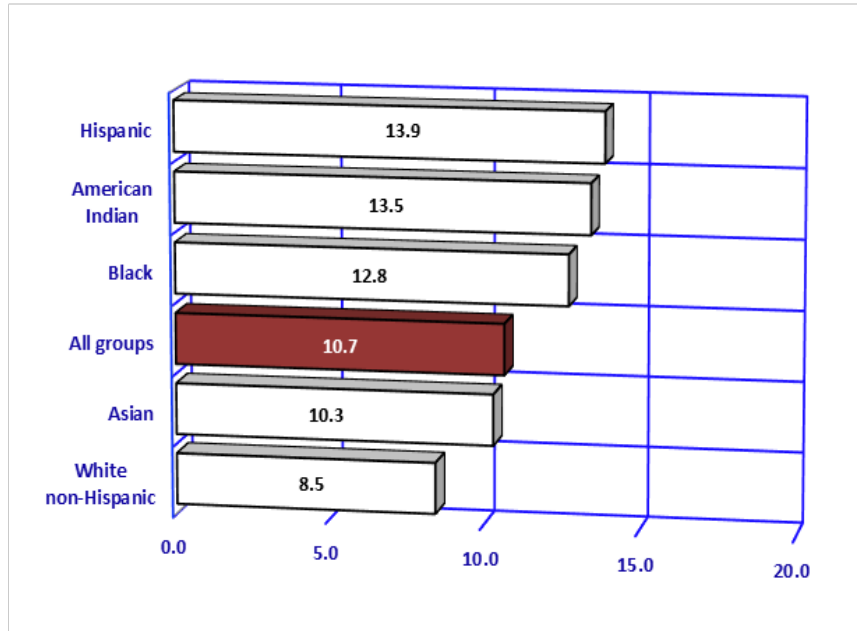
Another measure used to summarize reproduction patterns is the *gross reproduction rate* (GRR). It represents the average number of daughters born to a hypothetical cohort of 1,000 women if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. This 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 2021, the gross reproduction rates in Arizona ranged from 584 for Asian women to 867 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, 2021



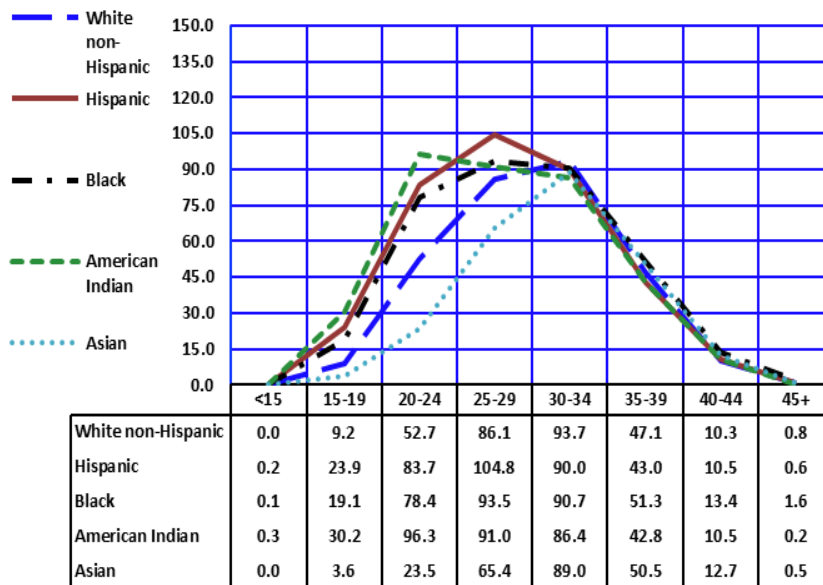
The crude birth rate, often simply called the birth rate, relates the number of births to the total population in a specified group. The birth rate is expressed as the total number of births per 1,000 persons, without regard to the age or sex distribution of the population.

The birth rate for Arizona decreased from 11.0 in 2019 and remained at 10.7 in 2020 and 2021 (**Table 1B-1**).

In 2021, the crude birth rates by mother's race/ethnicity ranged from 8.5 births per 1,000 White non-Hispanics to 13.9 per 1,000 Hispanics (**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, 2021



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 2021, 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.

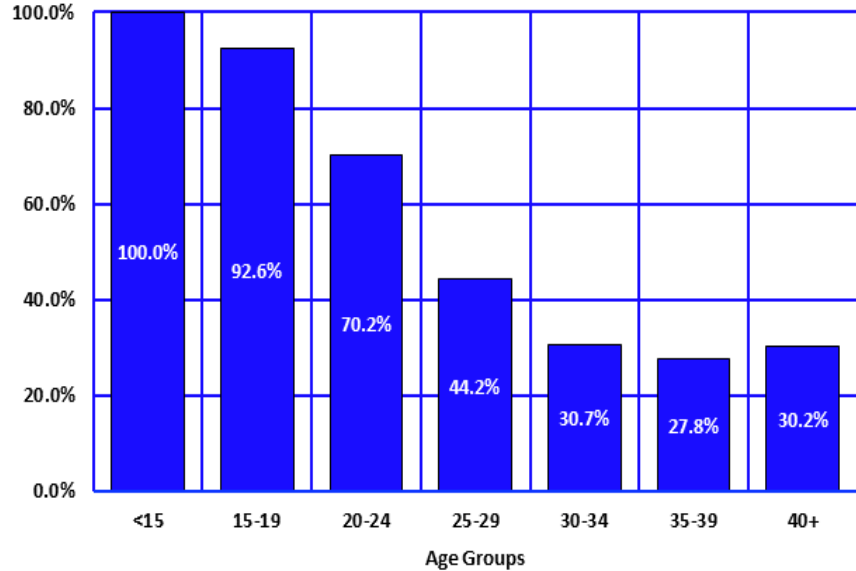
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-7**  
**Percent of Births to Unmarried Mothers by Age Group, Arizona, 2021**

Unmarried mothers have accounted for a large portion of births with more than 4 of every 10 births in Arizona (**Table 1B-2**). In 2021, 35,169 infants were born to unmarried mothers compared to 37,780 in 2011. 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.

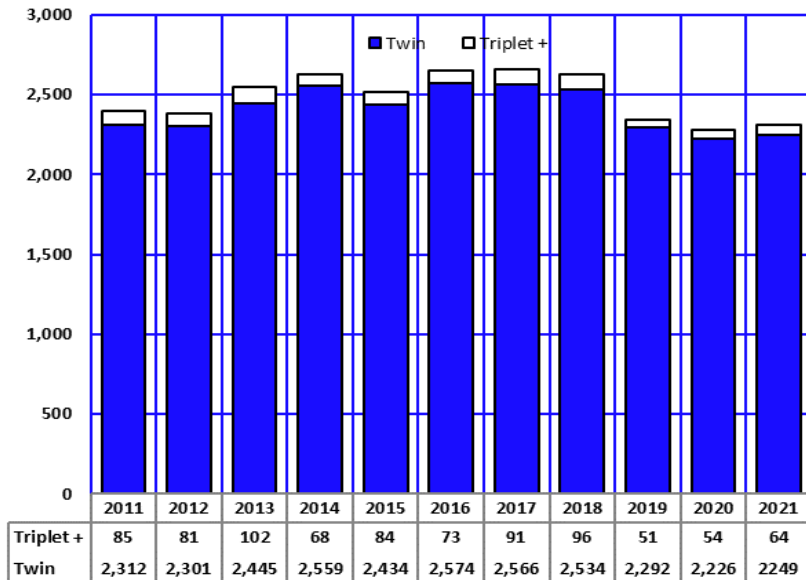
A decade ago, the proportion of births among unmarried women aged 20-24 years was 63.4 percent, while in 2021, approximately 70.2 percent of mothers 20-24 years old were unmarried (**Figure 1B-7**).

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**).



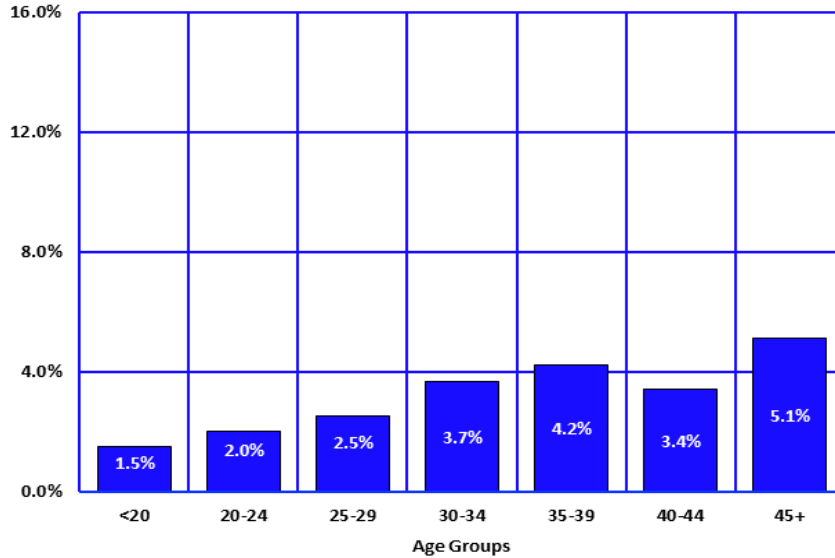
**Figure 1B-8**  
**Number of Births in Twin and Triplet+ Deliveries by Year, Arizona, 2011-2021**

The number of multiple birth events in Arizona declined from 2,397 in 2011 to 2,313 in 2021 (**Figure 1B-8**). The number of babies born in twin deliveries decreased from 2,312 in 2011 to 2,249 in 2021 (**Figure 1B-8**). The number of triplets and higher order multiple birth events decreased by 24.7 percent from 85 in 2011 to 64 in 2021.



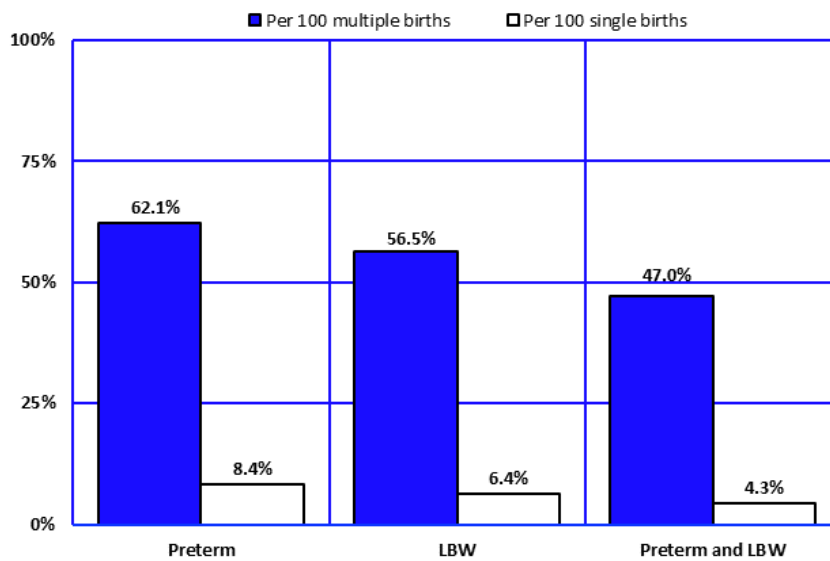
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-9**  
Multiple Births by Mother's Age Group, Arizona, 2021



In 2021, the proportion of multiple births gradually increased with maternal age among mothers below 40-44 years of age and decreased among those mothers (3.4 percent), then sharply increased among mothers age 45 years and older. Among women aged 45 years and older, 5.1 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 increased from 2.6 percent in 2020 to 5.1 percent in 2021. 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, 2021



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 2021, infants born in multiple deliveries were 7.4 times more likely (62.1 vs. 8.4 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 62% 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 2021, infants born at very low birth weight (<1,500 grams) accounted for 47.8 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.

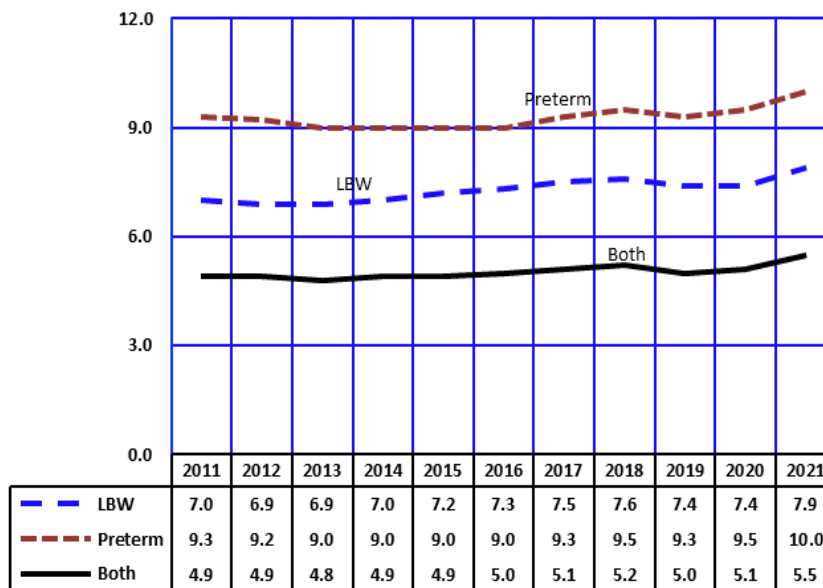
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-11**  
Preterm<sup>a</sup> and Low Birthweight (LBW)<sup>b</sup> Births by Year, Arizona, 2011-2021

The proportion of preterm births reached 10.0 percent of all births in 2021, a slight increase from 9.5 percent in 2020.

The proportion of infants born prematurely and who were also low birth weight (LBW; at less than 2,500 grams) slightly increased from 5.1/100 births in 2020 to 5.5/100 births in 2021 (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).

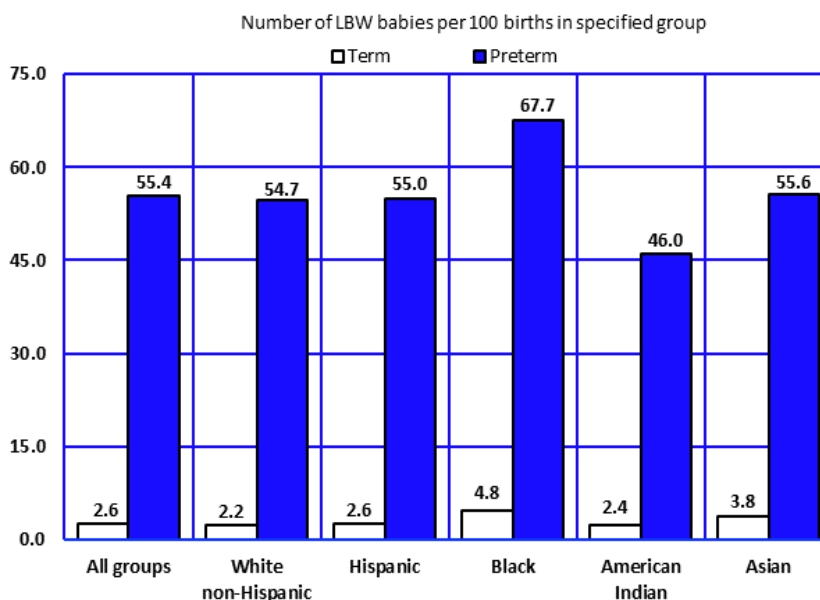


Notes: <sup>a</sup> Preterm: < 37 weeks of gestation; <sup>b</sup> Low birthweight (less than 2,500 grams or 5 pounds 8 ounces); In this report, the primary measure used to determine the gestational age is the clinical estimate of gestation as reported on the birth certificate.

**Figure 1B-12**  
Low-Birthweight (LBW) Births by Length of Gestation and Mother's Race/Ethnicity, Arizona, 2021

In 2021, 7.9 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 2011 (7.0 percent) (Table 1B-2). Preterm delivery is the strongest risk factor for LBW. Infants born at less than 37 completed weeks of gestation were 21.3 times (55.4 vs. 2.6 percent) more likely to be LBW than infants born at term (Figure 1B-12). Approximately, seven out of ten (70.2 percent) LBW babies born in 2021 were preterm (Table 1B-3).

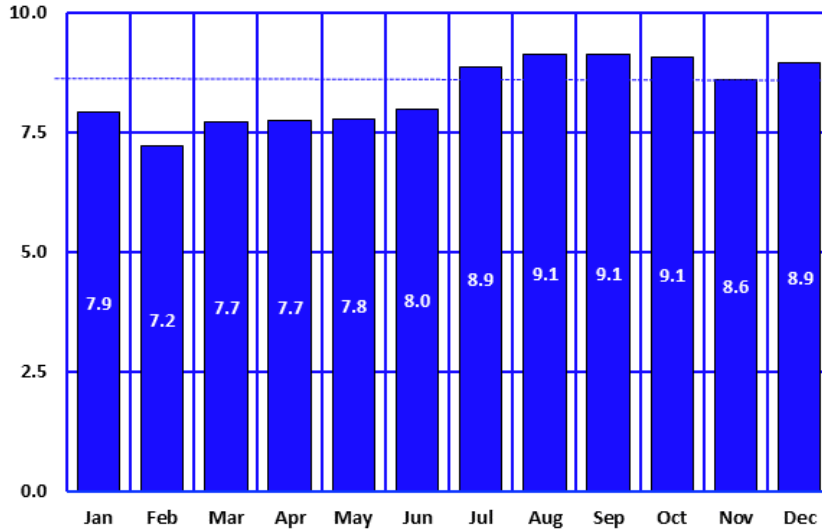
County-level data for LBW newborns are available in (Tables 5B-16 – 5B-23). Community level information is in (Table 9A).



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).

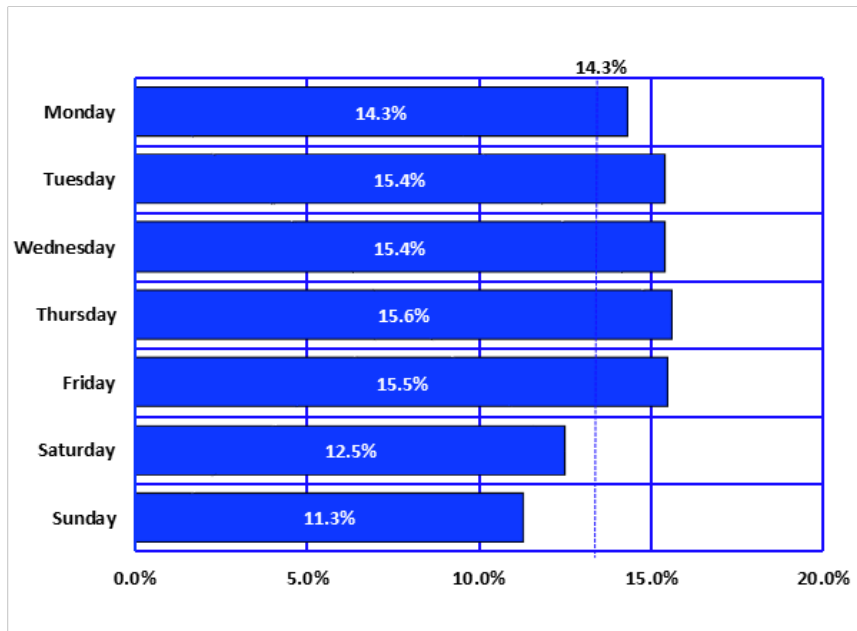
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-13**  
Percent of Resident Births by Month, Arizona, 2021



In 2021, monthly births in Arizona averaged around 8.3 percent. (Figure 1B-13). In 2021, the seasonal fluctuation of the frequency of births is marked by 3 month raised peak in August (9.1 percent), September (9.1 percent), and October (9.1 percent) compared to other months throughout the year.

**Figure 1B-14**  
Percent of Resident Births by Day of the Week, Arizona, 2021



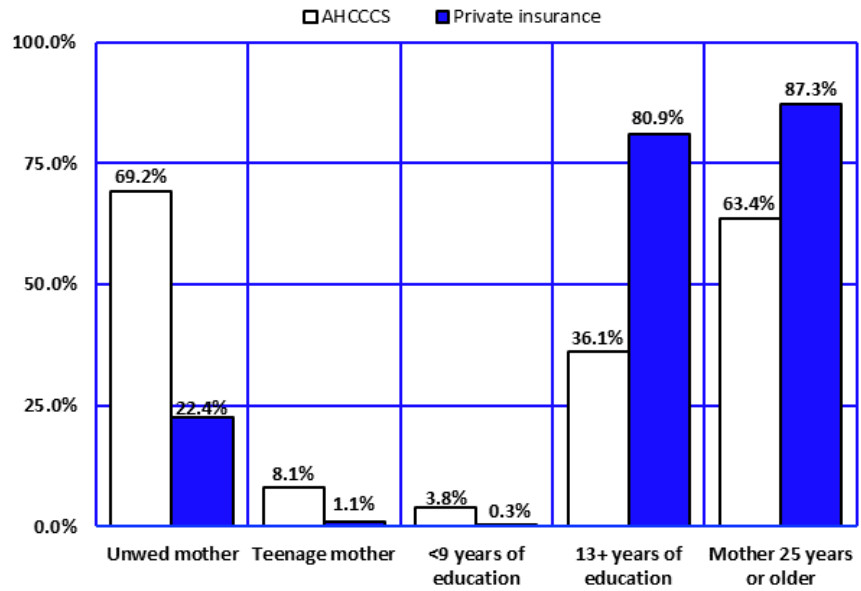
On average, 213 infants were born per day in 2021 to Arizona residents. The daily percent of resident live births in 2021 was substantially lower on weekends than on weekdays (Figure 1B-14). Many studies suggest that weekly, daily, and hourly variations observed in hospitals and clinics are not due to 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 2021, only 8.8 percent of cesarean deliveries occurred on Sundays, compared to 16.5 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).

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The number of years of maternal education was the only possible proxy of socioeconomic status (SES) on the birth certificate prior to 1989. Paying party for the delivery became another SES indicator in 1989. The Arizona Health Care Cost Containment System (AHCCCS, the State's Medicaid Program) versus private health insurance (PHI) compares mothers of lower and higher SES respectively. PHI mothers were 2.2 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 (69.2%) 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.

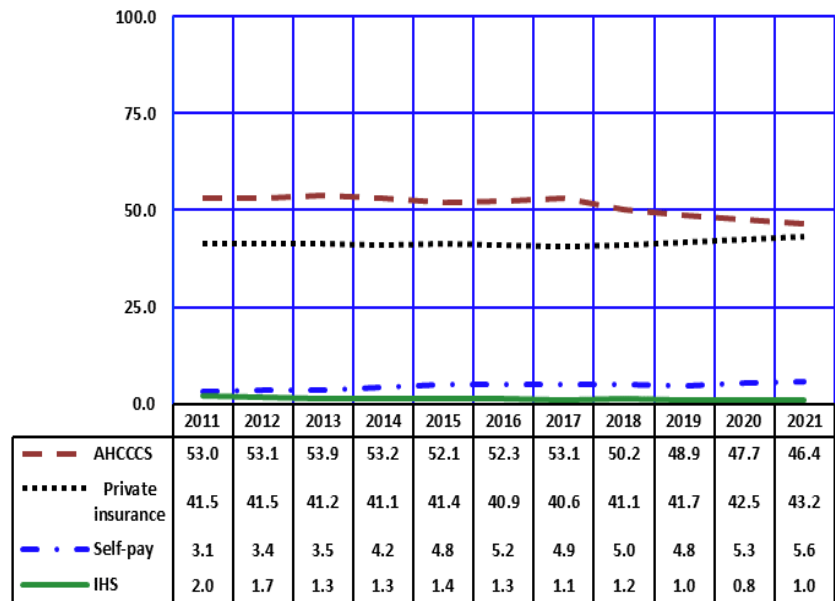
**Figure 1B-15**  
Comparison of Selected Sociodemographic Characteristics by the Payer for Delivery, Arizona, 2021



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

Since 2002, the share of resident births paid for by AHCCCS has exceeded the share paid by private health insurance (**Figure 1B-16**). In 2011, private insurance funded 41.5 percent of births and AHCCCS paid for 53.0 percent of births. The share of AHCCCS funded births varied little from 2011 to 2021. The share of private health insurance also remained stable during this time period. In 2021, the proportion of births paid by AHCCCS decreased 12.5 percent, while the percent of births paid by a private insurance increased 4.1 percent. In 2021, 5.6 percent of births were paid by mothers themselves and/or their families (i.e. self-pay). The Indian Health Service (IHS) paid for 1.0 percent of the births in 2021, a slight increase from last year (**Table 1B-25 and Table 1B-27**).

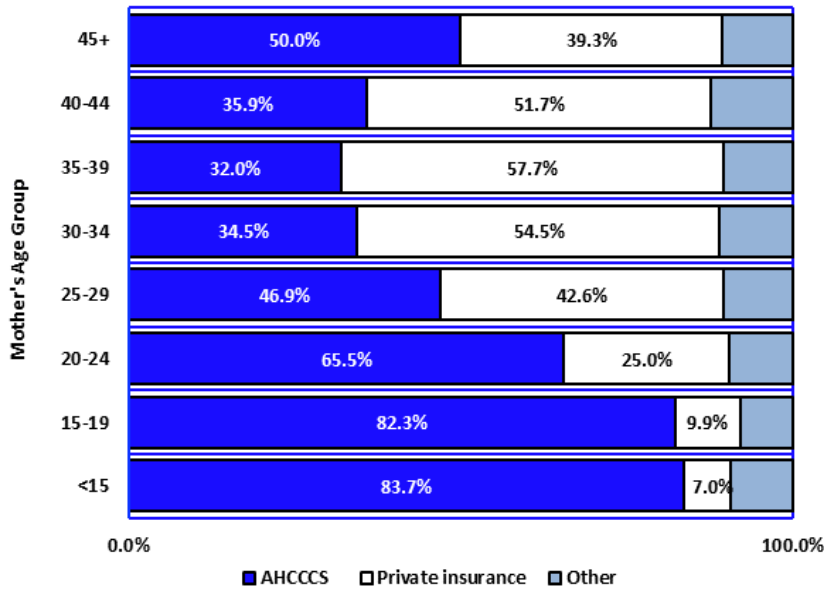
**Figure 1B-16**  
Births by Payer and Year, Arizona, 2011-2021



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

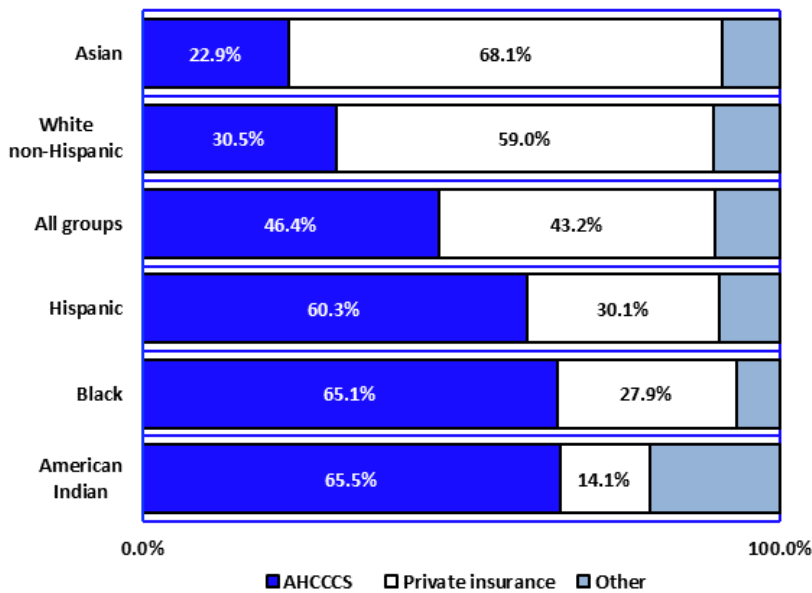
**Figure 1B-17**  
**Payer for Delivery by Mother's Age Group, Arizona, 2021**



In 2021, 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 2021 (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, 2021**



In 2021, private insurance was the largest payer for deliveries of Asian (68.1 percent) and White non-Hispanic infants (59.0 percent). In contrast, the Arizona Health Care Cost Containment System was the largest payer for deliveries of American Indian (65.5 percent), Black or African American (65.1 percent), and Hispanic or Latino infants (60.3 percent).

The Indian Health Service as a payer accounted for 17.2 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 53.9 percent of the 36,163 deliveries paid for by AHCCCS. About 28.5 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.

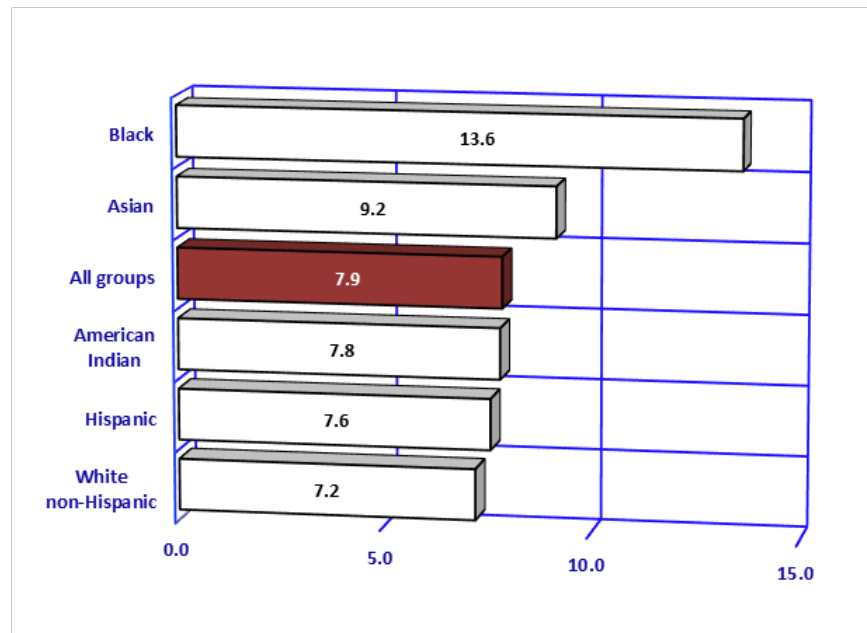


1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-19**  
**Percent of Low Birthweight<sup>a</sup> by Mother's Race/Ethnicity,**  
**Arizona Residents, 2021**

In 2021, 7.9 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 (13.6 percent), Asian or Pacific Islander mothers (9.2 percent), and American Indian mothers (7.8 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**).

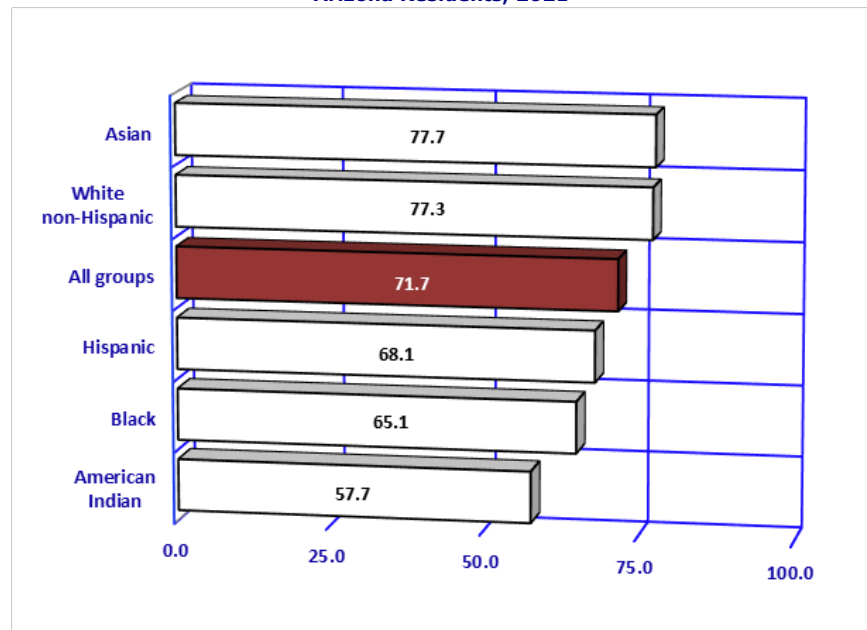


Note: <sup>a</sup> Low birthweight is less than 2,500 grams (less than 5 pounds 8 ounces).

The percent of Arizona mothers giving birth who received early prenatal care (i.e., in the first trimester) has decreased from 2011 (81.7 percent) to 2021 (71.7 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 2014-2021 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 and 2019.

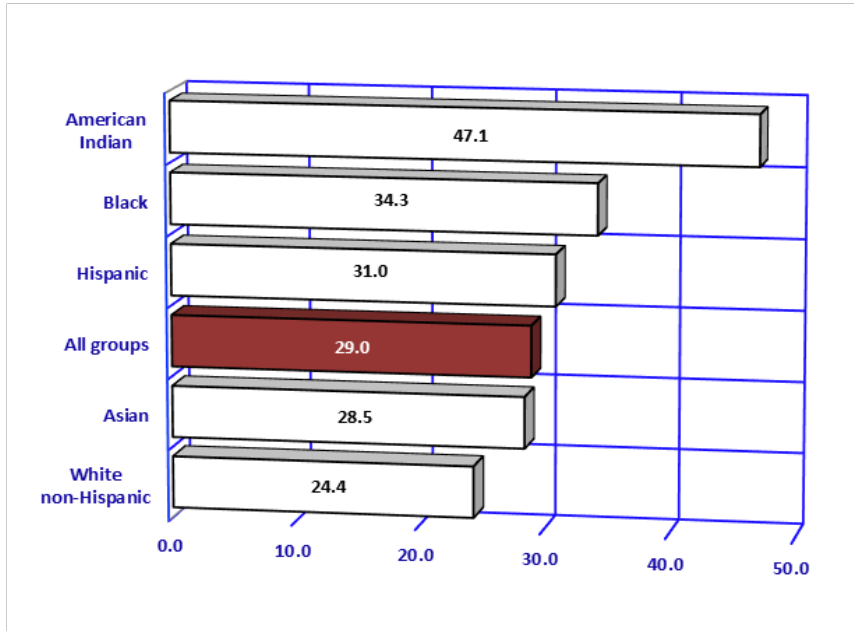
In Arizona, American Indian, Black or African American, and Hispanic or Latino mothers were least likely to begin prenatal care in the first trimester (**Figure 1B-20**). White non-Hispanic and Asian or Pacific Islander mothers were more likely to report timely entry to prenatal care than any other racial/ethnic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

**Figure 1B-20**  
**First Trimester Prenatal Care by Mother's Race/Ethnicity,**  
**Arizona Residents, 2021**



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

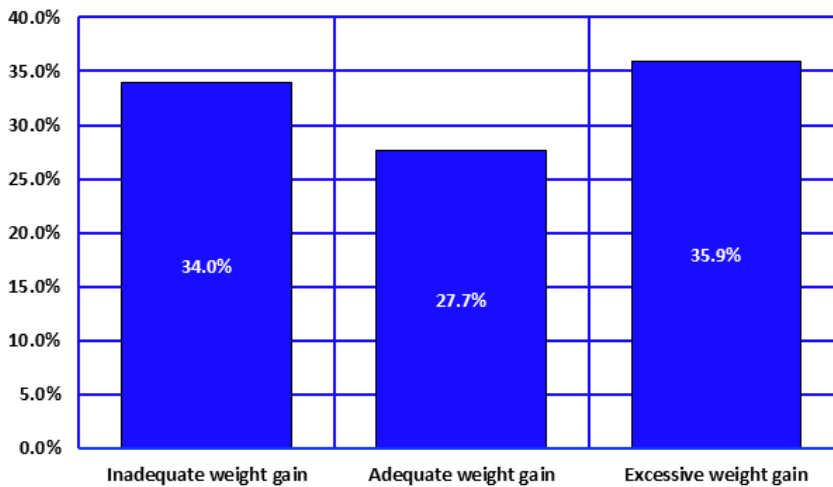
**Figure 1B-21**  
**Maternal Medical Risk Factors<sup>a</sup> by Mother's Race/Ethnicity, Arizona, 2021**



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 2021, 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, 2021**



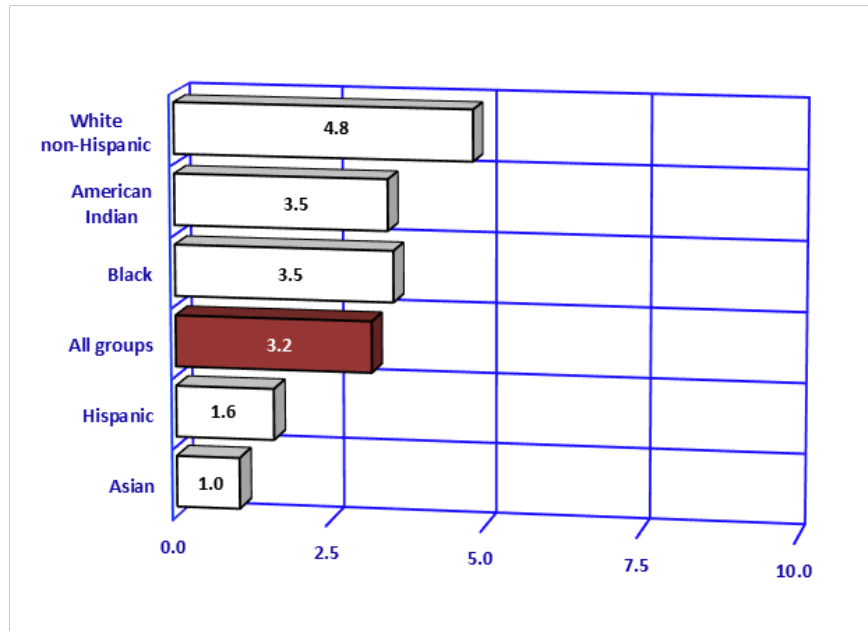
Maternal weight gain during pregnancy is a determinant of both fetal growth and birthweight. Insufficient or excessive weight gain during pregnancy can negatively influence outcomes of both mother and infant. Based on the [Institute of Medicine](#) guidelines, women who are of normal weight (body mass 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 2021, 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, 2021

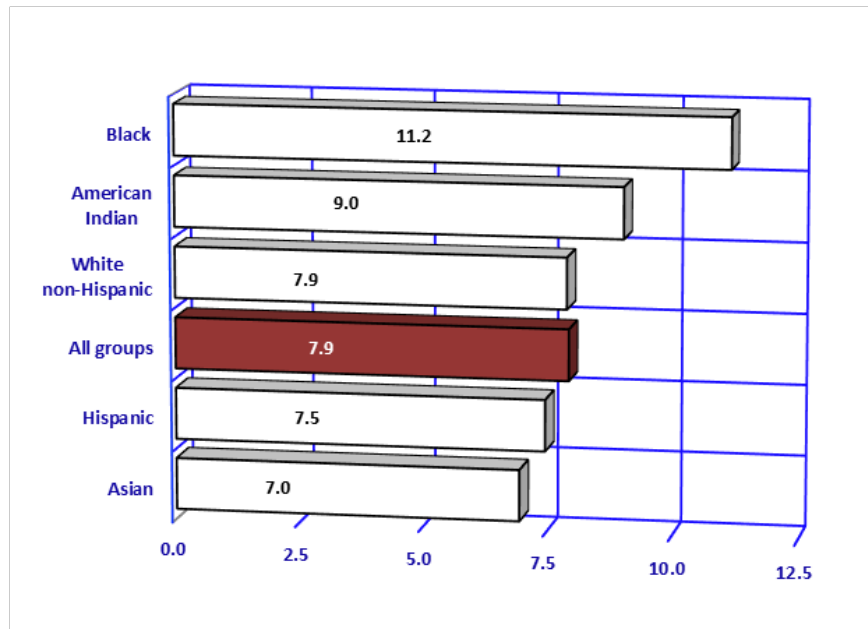
Cigarette smoking during pregnancy has been associated with reduced infant weight at birth, intrauterine growth retardation, and preterm births. Smoking during pregnancy was reported by 3.2 percent of women giving birth in 2021 (**Table 1B-25, Table 5B-30**), compared to 10.5 percent in 1989, when this 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, American Indian, and Black mothers continued to be more likely to report smoking than 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, 2021

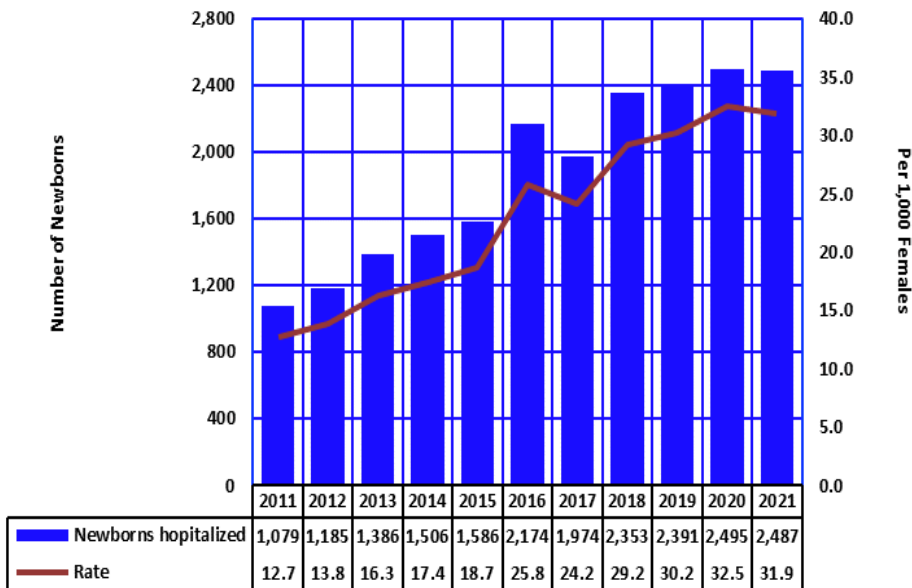
In 2021, 6,189 or 7.9 percent of newborns were admitted to newborn intensive care units (NICUs). The proportion of NICU admissions differed among racial/ethnic groups. Black or African American, American Indian, and White non-Hispanic newborns had the highest rates of NICU admissions compared the other racial/ethnic groups (**Table 1B-25**). Prematurity, i.e., gestational age before 37 weeks lead to more NICU admissions (56.7 percent) than did LBW (46.6 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

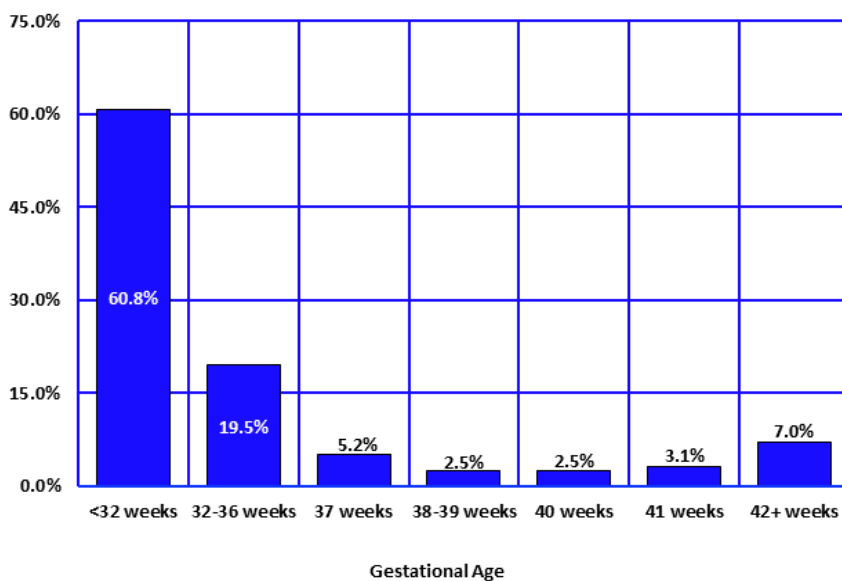
**Figure 1B-25**  
**Newborns Who Were Hospitalized after Birth because They Were Affected**  
**by Maternal Use of Drugs during Pregnancy, Arizona, 2011-2021**



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 12.7/1,000 in 2011 to 31.9/1,000 in 2021.

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, 2021**



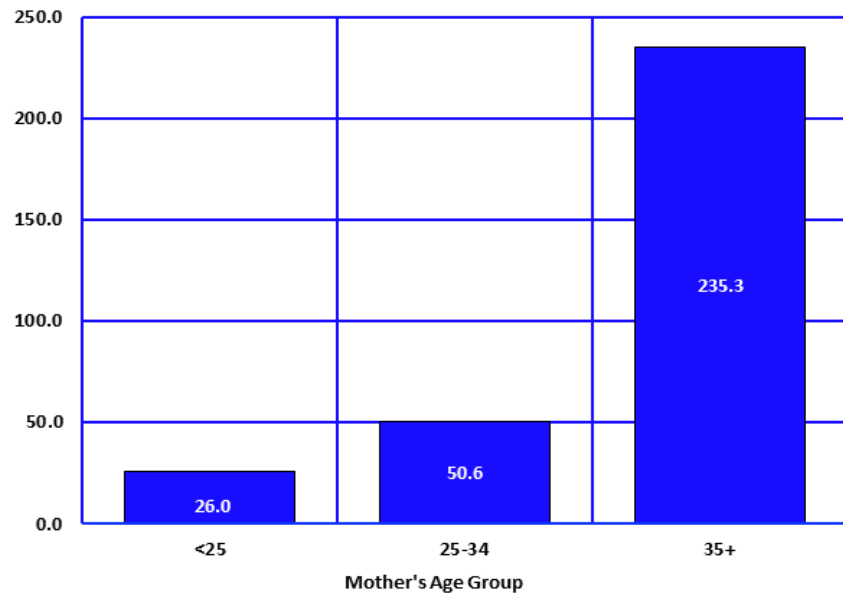
With the implementation of the revised birth certificate, three of the six specific abnormal conditions listed on the birth certificate have been reported most frequently: *assisted ventilation immediately after delivery, assisted ventilation for more than six hours, and suspected neonatal sepsis (Table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

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**Figure 1B-27**  
**The Incidence of Down Syndrome by Mother's Age Group, Arizona, 2021**

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 2021 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 235.3 cases of Down's Syndrome per 100,000 births to women 35 years or older was 9.1 times greater than the incidence rate of 26.0 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>, 2011-2021**

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
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	1,895	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.	12.4	62.5	1,858	NA	0.3	26.5	80.7	105.5	98.0	49.3	10.4	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.	12.4	62.5	1,844	NA	0.2	22.3	76.8	104.3	101.5	51.8	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.	12.2	62.0	1,821	NA	0.2	20.3	73.8	102.1	102.7	52.7	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.	11.8	60.3	1,766	NA	0.2	18.8	71.0	98.0	100.3	52.3	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	1,730	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.	11.4	58.3	1,706	NA	0.2	16.7	66.6	93.7	98.3	52.8	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.	10.9	55.7	1,642	NA	0.2	15.0	63.3	90.9	94.9	51.3	11.8	0.9
2021	AZ	10.7	55.6	1,629	795	0.2	15.3	65.2	94.6	91.9	47.0	10.8	0.8
	U.S.	11.0	56.3	1,664	NA	0.2	13.9	61.5	93.0	97.6	53.7	12.0	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 2021 TFR of 1,629 can be interpreted at the individual level as the average number of children a female resident would have by age 50 ( $1,629/1000 = 2$  live births) if she were subjected throughout her life to the age-specific birth rates observed in 2021.

<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 2011-2021.

<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, 2011-2021  
(ALL RACE/ETHNIC GROUPS)**

<b>Characteristic</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>2021</b>
<b>Number of births</b>	85,190	85,725	84,963	86,648	85,024	84,404	81,664	80,539	79,183	76,781	77,857
<b>Age of mother</b>											
≤19 years	9.9	9.5	8.5	7.6	6.9	6.4	6.2	5.8	5.5	5.1	4.6
≥30 years	36.1	36.7	37.2	38.8	39.3	40.2	40.9	42.0	42.6	43.9	44.9
<b>Marital status</b>											
Unmarried	44.3	45.2	45.1	44.7	45.3	44.8	44.4	44.6	45.0	45.0	45.2
<b>Mother's education</b>											
<9 years	4.6	4.3	3.8	3.7	3.5	3.2	3.1	3.0	2.8	2.5	2.3
<b>Mother's race/ethnicity</b>											
White <sup>b</sup>	45.0	45.1	45.0	46.3	44.9	44.7	43.7	43.3	43.1	43.1	43.5
Hispanic	38.0	38.7	38.9	38.9	40.3	40.1	40.6	41.0	41.1	41.5	41.5
Black	5.1	5.5	5.6	5.2	5.1	5.2	5.6	5.8	6.1	6.2	6.2
American Indian	6.8	6.5	6.4	5.9	5.9	6.0	6.0	5.8	5.6	5.3	5.0
Asian	5.0	4.2	4.1	3.7	3.8	4.0	4.1	4.1	4.0	3.9	3.9
<b>Prenatal care begin</b>											
1 <sup>st</sup> Trimester	81.7	82.6	81.3	66.0	67.9	68.9	68.3	68.8	68.9	68.8	71.7
3 <sup>rd</sup> Trimester	3.1	3.2	3.6	5.3	5.5	5.8	5.7	6.2	6.8	6.7	6.1
No Care	1.6	1.2	1.4	2.1	2.2	2.4	2.9	2.8	2.6	2.5	2.5
<b>Prenatal visits</b>											
1-4	3.4	3.6	3.8	4.4	4.4	4.6	4.6	5.0	5.6	5.4	4.8
≥5	94.5	94.9	94.7	92.1	92.2	91.5	90.8	90.9	89.9	90.2	91.7
≥9	80.6	81.3	81.2	77.6	77.0	76.0	75.6	74.5	72.4	72.0	74.8
≥13	33.7	34.6	34.8	30.7	30.4	29.9	31.2	31.0	29.2	29.2	30.4
<b>Medical risk/ Complications<sup>c</sup></b>	46.3	52.4	55.5	<b>34.5</b>	<b>39.0</b>	40.7	42.7	44.2	46.9	49.1	50.2
<b>Gestational age<sup>d</sup></b>											
Preterm (<37 weeks)	9.3	9.2	9.0	9.0	9.0	9.0	9.3	9.5	9.3	9.5	10.0
<b>Birth weight</b>											
<2,500 grams	7.0	6.9	6.9	7.0	7.2	7.3	7.5	7.6	7.4	7.4	7.9
<1,500 grams	1.2	1.2	1.1	1.2	1.1	1.2	1.2	1.2	1.1	1.1	1.3
<b>Child's sex</b>											
Male	51.2	51.2	51.4	51.3	51.3	50.9	50.8	51.2	51.2	50.9	51.2
Female	48.8	48.8	48.6	48.7	48.7	49.1	49.2	48.8	48.8	49.1	48.8
<b>Plurality</b>											
Multiple births	2.8	2.8	3.0	3.0	3.0	3.1	3.3	3.3	3.0	3.0	3.0
<b>Caesarean delivery</b>	27.9	27.6	27.8	27.7	27.5	27.5	26.8	27.5	27.8	28.4	28.7
<b>Place of delivery</b>											
Hospital <sup>e</sup>	98.5	98.6	98.7	98.5	98.5	98.3	98.3	98.2	98.3	97.9	97.5
<b>Attendant at birth</b>											
Midwife <sup>f</sup>	6.4	7.2	7.4	10.2	11.8	12.8	13.5	13.1	13.9	13.6	13.1
<b>Previous live births</b>											
1 or more	62.6	62.7	63.6	64.0	64.3	64.8	64.4	64.2	63.9	63.1	63.0

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, 2011-2021**  
**(ALL RACE/ETHNIC GROUPS)**

Characteristic	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Number of births</b>	5,949	5,946	5,849	6,069	6,093	6,186	6,109	6,106	5,829	5,650	6,140
<b>Age of mother</b>											
≤19 years	11.6	10.7	8.9	7.8	7.8	7.0	7.1	6.5	5.7	5.6	5.3
≥30 years	37.9	39.4	37.9	40.9	42.0	42.4	43.0	46.3	45.6	46.7	49.2
<b>Marital status</b>											
Unmarried	50.0	51.4	51.3	49.1	47.5	48.2	49.6	49.8	50.0	50.2	51.1
<b>Mother's education</b>											
<9 years	4.5	4.5	4.2	3.8	3.5	3.7	3.0	3.0	2.9	2.8	2.6
<b>Mother's race/ethnicity</b>											
White <sup>b</sup>	43.5	42.1	42.0	44.7	41.7	41.8	41.0	40.3	40.0	39.8	39.9
Hispanic	34.9	37.9	37.6	37.0	38.8	38.8	38.3	38.9	39.0	39.2	40.0
Black	9.2	9.3	8.9	8.8	8.8	8.5	9.4	9.4	10.2	10.8	10.6
American Indian	6.8	6.3	6.7	5.2	6.0	5.9	6.2	6.1	6.1	5.2	5.0
Asian	5.7	4.4	4.7	4.2	4.8	5.1	5.2	5.2	4.7	5.0	4.5
<b>Prenatal care began</b>											
1st Trimester	81.2	80.0	78.9	63.6	65.0	66.0	65.9	64.2	64.5	65.4	66.8
3rd Trimester	2.3	2.7	3.4	4.1	3.9	4.5	4.0	4.8	4.9	5.3	4.5
No Care	3.2	2.9	2.9	4.8	5.2	5.0	5.6	6.9	6.7	5.6	5.9
<b>Prenatal visits</b>											
1-4	7.3	8.6	8.2	8.6	9.4	9.5	9.4	10.2	11.4	11.5	10.0
≥5	88.5	87.9	88.5	84.8	83.1	82.6	82.3	79.6	78.9	80.0	82.2
≥9	65.0	65.5	66.4	60.4	58.1	57.4	56.1	52.1	51.9	51.7	53.5
≥13	28.5	26.7	27.7	22.1	20.2	20.1	21.3	20.1	19.1	18.4	19.8
<b>Medical risks/</b>											
<b>Complications<sup>c</sup></b>	69.2	73.2	72.5	<b>58.9</b>	<b>60.0</b>	62.0	65.1	68.7	68.5	70.5	70.0
<b>Gestational age<sup>d</sup></b>											
Preterm (<37 weeks)	70.1	71.2	70.2	69.4	68.8	68.7	67.8	69.2	68.5	69.3	70.2
<b>Birth weight</b>											
<1,500 grams	16.8	16.6	15.8	16.8	16.0	16.3	15.8	16.1	15.5	15.6	16.0
<1,000 grams	8.3	8.1	7.4	8.4	7.4	8.0	7.7	7.8	7.2	7.8	7.7
<b>Child's sex</b>											
Male	46.8	48.7	49.3	47.7	47.4	48.0	46.9	47.2	48.0	47.9	46.8
Female	53.2	51.3	50.7	52.3	52.6	52.0	53.1	52.8	52.0	52.1	53.2
<b>Plurality</b>											
Multiple births	22.8	23.0	24.4	23.7	22.5	23.9	22.8	24.6	22.7	22.4	21.3
<b>Caesarean delivery</b>	46.8	47.7	47.6	47.4	48.6	48.4	47.0	49.1	50.1	50.1	51.8
<b>Place of delivery</b>											
Hospital <sup>e</sup>	99.4	99.7	99.7	99.7	99.5	99.4	99.3	99.6	99.4	99.3	99.5
<b>Attendant at birth</b>											
Midwife <sup>f</sup>	2.3	2.5	2.7	9.5	10.5	11.0	12.3	11.8	12.9	12.6	11.9
<b>Previous live births</b>											
1 or more	59.6	61.4	60.5	61.4	60.9	61.0	60.7	61.8	61.2	59.8	61.1

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-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, 2011-2021  
(URBAN REGIONS)<sup>b</sup>**

Characteristic		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Number of births</b>		73,040	74,128	73,493	74,677	73,547	72,899	70,780	69,890	68,797	66,845	67,950
<b>Age of mother</b>	≤19 years	9.4	9.0	8.2	7.3	6.6	6.1	5.8	5.5	5.2	4.9	4.3
	≥30 years	37.4	37.9	38.4	40.0	40.6	41.2	42.0	43.1	43.5	44.8	45.9
<b>Marital status</b>	Unmarried	43.2	44.1	44.1	43.6	44.1	43.7	43.2	43.4	43.9	44.0	44.2
<b>Mother's education</b>	<9 years	4.9	4.7	4.0	3.9	3.7	3.5	3.2	3.1	3.0	2.6	2.5
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	45.0	44.6	44.3	45.7	44.5	44.0	43.1	42.6	42.2	42.2	42.3
	Hispanic	40.5	40.9	41.3	41.3	42.5	42.5	43.0	43.2	43.4	43.7	43.7
	Black	5.7	6.1	6.2	5.9	5.8	5.9	6.3	6.5	6.9	6.9	6.9
	American Indian	3.7	3.7	3.7	3.1	3.1	3.2	3.1	3.2	3.1	3.0	2.8
	Asian	5.0	4.7	4.5	4.0	4.2	4.4	4.5	4.4	4.4	4.2	4.2
<b>Prenatal care began</b>	1st Trimester	82.5	83.4	82.1	66.6	68.3	69.4	68.7	69.5	69.9	69.4	72.5
	3rd Trimester	2.9	3.1	3.5	5.2	5.3	5.6	5.4	6.1	6.6	6.5	5.9
	No care	1.6	1.2	1.3	2.1	2.1	2.3	2.8	2.6	2.3	2.3	2.4
<b>Prenatal visits</b>	1-4	3.0	3.2	3.5	4.0	4.1	4.3	4.2	4.7	5.3	5.2	4.5
	≥5	94.8	95.3	95.1	92.4	92.6	91.9	91.2	91.5	90.5	90.7	92.3
	≥9	81.8	82.4	82.3	78.7	78.2	77.1	76.7	75.6	73.2	72.8	75.8
	≥13	34.1	35.1	35.3	31.1	31.0	30.1	31.7	31.7	29.8	29.8	31.2
<b>Medical risks/complications<sup>d</sup></b>		47.2	52.5	56.1	<b>34.5</b>	<b>39.4</b>	41.4	43.1	44.7	47.5	49.7	50.8
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	9.4	9.2	9.1	9.1	9.0	9.0	9.2	9.5	9.3	9.4	10.0
<b>Birth weight</b>	<2,500 grams	6.9	6.9	6.8	7.0	7.1	7.2	7.4	7.6	7.3	7.3	7.8
	<1,500 grams	1.2	1.2	1.1	1.2	1.1	1.2	1.2	1.2	1.1	1.1	1.3
<b>Child's sex</b>	Male	51.2	51.2	51.4	51.3	51.3	51.0	50.7	51.1	51.3	50.8	51.1
	Female	48.8	48.8	48.6	48.7	48.7	49.0	49.3	48.9	48.7	49.2	48.9
<b>Plurality</b>	Multiple births	2.9	2.9	3.1	3.1	3.0	3.2	3.3	3.3	3.0	3.0	3.0
<b>Caesarean delivery</b>		28.3	27.9	28.1	28.1	27.9	27.7	27.2	27.7	28.0	28.8	29.0
<b>Place of delivery</b>	Hospital <sup>f</sup>	98.8	98.7	98.7	98.7	98.6	98.4	98.4	98.3	98.4	98.0	97.6
<b>Attendant at birth</b>	Midwife <sup>g</sup>	5.2	6.3	6.3	10.1	12.1	13.0	13.8	13.1	14.1	13.6	13.2
<b>Previous live births</b>	1 or more	62.4	62.6	63.4	63.7	64.0	64.6	64.0	63.9	63.6	62.7	62.5
<b>Number of LBW births</b>		5,065	5,096	5,013	5,232	5,199	5,270	5,224	5,277	5,030	4,886	5,326
<b>Age of mother</b>	≤19 years	10.9	10.2	8.8	7.3	7.4	6.3	6.9	6.1	5.8	5.4	5.2
	≥30 years	39.3	40.4	39.3	42.0	43.6	44.2	44.1	47.5	46.3	47.6	50.2
<b>Marital status</b>	Unmarried	49.0	50.1	50.8	48.3	49.5	47.1	48.4	48.1	49.0	49.1	50.3
<b>Mother's education</b>	<9 years	4.9	4.7	4.3	4.0	3.6	3.9	3.2	3.2	3.0	2.8	2.7
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	42.8	41.1	40.9	43.3	40.4	41.1	40.2	39.9	38.9	38.5	38.4
	Hispanic	37.2	40.2	39.8	39.4	41.3	40.8	40.6	40.7	41.2	41.0	41.9
	Black	10.3	10.4	10.2	9.9	10.0	9.7	10.8	10.5	11.6	12.1	12.1
	American Indian	3.4	3.3	4.0	2.7	3.0	2.8	2.7	3.2	3.0	2.8	2.8
	Asian	6.3	4.9	5.1	4.6	5.3	5.7	5.6	5.7	5.2	5.6	4.8
<b>Prenatal care began</b>	1st Trimester	81.9	80.5	79.8	63.8	66.0	66.8	66.7	65.2	66.0	66.4	67.8
	3rd Trimester	2.0	2.6	3.3	4.1	3.8	4.3	3.8	4.7	4.8	5.1	4.3
	No care	3.0	2.8	2.7	4.9	4.8	4.3	5.3	6.2	5.7	5.3	5.8
<b>Prenatal visits</b>	1-4	7.0	7.8	7.8	8.4	8.9	8.6	8.7	9.7	11.0	11.6	9.6
	≥5	88.8	88.9	89.1	84.8	84.1	84.0	83.3	81.0	80.1	80.6	83.0
	≥9	65.8	66.5	67.7	60.8	59.6	58.6	57.7	53.7	52.7	52.4	54.2
	≥13	29.1	27.3	28.4	22.6	20.6	20.6	21.8	21.0	19.3	18.5	20.3
<b>Medical risks/complications<sup>d</sup></b>		70.8	74.2	73.7	<b>59.0</b>	<b>60.0</b>	61.7	65.3	68.3	68.6	70.2	70.0
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	71.2	71.3	70.8	70.7	69.5	69.5	67.7	69.6	68.4	70.0	71.1
<b>Birth weight</b>	<1,500 grams	17.4	16.9	15.9	17.0	16.0	16.6	15.7	16.0	15.3	15.4	16.4
	<1,000 grams	8.7	8.4	7.6	8.6	7.7	8.2	7.9	7.7	7.3	7.7	7.9
<b>Child's sex</b>	Male	47.0	48.6	49.2	48.1	47.8	48.3	46.8	46.9	48.2	48.3	47.1
	Female	53.0	51.4	50.8	51.9	52.2	51.7	53.2	53.1	51.8	51.7	52.9
<b>Plurality</b>	Multiple births	23.3	23.9	25.2	24.3	23.4	24.6	23.9	25.4	23.0	22.7	21.6
<b>Caesarean delivery</b>		47.7	48.7	48.0	48.3	49.2	48.8	47.5	49.4	50.5	50.7	52.3
<b>Place of delivery</b>	Hospital <sup>f</sup>	99.5	99.8	99.8	99.8	99.7	99.6	99.5	99.8	99.4	99.4	99.5
<b>Attendant at birth</b>	Midwife <sup>g</sup>	1.6	2.0	2.2	9.5	10.6	11.0	12.3	11.9	13.2	12.4	11.9
<b>Previous live births</b>	1 or more	59.2	61.2	60.0	61.4	60.6	61.0	60.2	61.4	60.3	59.8	60.4

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 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-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, 2011-2021  
(RURAL REGIONS)<sup>b</sup>**

Characteristic		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Number of births</b>		12,150	11,597	11,470	11,955	11,467	11,502	10,873	10,640	10,368	9,881	9,810
<b>Age of mother</b>	≤19 years	12.7	12.2	10.6	9.8	9.0	8.5	8.3	7.5	6.9	6.7	6.5
	≥30 years	28.2	29.3	29.4	31.3	30.9	33.4	33.9	34.7	36.2	37.6	38.1
<b>Marital status</b>	Unmarried	51.0	52.4	52.0	51.7	53.0	51.8	52.8	52.3	52.2	51.6	52.5
<b>Mother's education</b>	<9 years	2.5	2.2	2.4	2.3	1.9	1.8	1.9	1.9	1.7	1.8	1.5
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	47.9	48.7	49.1	49.8	47.7	49.3	47.5	47.9	48.7	49.3	51.2
	Hispanic	23.0	24.1	24.0	24.2	26.4	25.3	25.1	26.3	26.3	26.9	26.1
	Black	1.4	1.5	1.3	0.9	0.9	1.0	1.1	1.0	1.0	1.2	1.2
	American Indian	25.7	24.2	24.0	23.5	23.6	23.2	24.7	23.2	22.6	20.9	20.2
	Asian	2.0	1.5	1.7	1.5	1.4	1.2	1.6	1.6	1.4	1.7	1.4
<b>Prenatal care began</b>	1st Trimester	77.1	77.7	76.3	62.5	64.8	65.4	65.4	64.0	62.4	64.3	66.7
	3rd Trimester	4.1	4.3	4.1	6.3	6.7	7.3	7.3	7.1	8.0	7.6	7.1
	No care	1.5	1.5	2.2	1.9	3.0	3.0	3.1	4.1	4.1	3.3	3.1
<b>Prenatal visits</b>	1-4	5.7	5.7	5.6	6.6	6.2	7.0	7.4	7.0	7.3	6.9	6.7
	≥5	92.3	92.4	92.0	90.5	89.9	89.1	88.5	86.9	85.9	86.8	88.3
	≥9	73.3	73.9	73.8	71.1	69.5	69.1	68.4	67.3	66.6	66.4	68.3
	≥13	31.2	31.0	31.7	28.3	26.7	28.4	28.2	26.4	25.0	25.4	25.4
<b>Medical risks/complications<sup>d</sup></b>		41.1	52.0	51.8	<b>34.1</b>	<b>36.7</b>	37.8	39.8	41.3	43.1	45.2	46.2
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	8.8	9.1	8.7	8.3	8.9	9.1	9.6	9.3	9.4	9.5	10.1
<b>Birth weight</b>	<2,500 grams	7.3	7.3	7.3	7.0	7.8	8.0	8.1	7.8	7.7	7.7	8.2
	<1,500 grams	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.1
<b>Child's sex</b>	Male	51.3	51.2	51.3	51.1	51.0	50.3	51.6	51.9	50.7	51.4	51.5
	Female	48.7	48.8	48.7	48.9	49.0	49.7	48.4	48.1	49.3	48.6	48.5
<b>Plurality</b>	Multiple births	2.6	2.2	2.4	2.5	2.6	2.9	2.9	2.7	2.7	2.8	2.7
<b>Caesarean delivery</b>		25.8	25.7	25.8	25.2	25.0	26.2	24.6	26.1	25.8	25.7	26.0
<b>Place of delivery</b>	Hospital <sup>f</sup>	97.0	98.0	98.2	97.7	97.6	97.3	97.1	97.4	97.6	97.1	96.7
<b>Attendant at birth</b>	Midwife <sup>g</sup>	14.0	13.4	14.2	10.7	10.2	11.3	11.2	13.1	12.8	13.9	13.0
<b>Previous live births</b>	1 or more	63.8	63.3	64.8	66.0	65.8	66.3	67.1	66.5	65.8	65.3	65.7
<b>Number of LBW births</b>		884	850	836	835	891	916	884	827	799	758	803
<b>Age of mother</b>	≤19 years	15.5	13.9	9.7	11.3	10.3	10.6	8.6	9.1	5.0	7.1	6.0
	≥30 years	30.1	32.8	29.9	34.5	32.8	32.3	36.5	38.8	40.7	40.6	42.8
<b>Marital status</b>	Unmarried	55.7	59.1	54.2	53.9	57.1	54.3	56.3	60.5	55.9	57.9	56.8
<b>Mother's education</b>	<9 years	2.3	3.1	3.0	2.3	2.5	2.3	1.9	1.6	2.3	3.0	1.7
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	47.3	48.1	49.2	53.5	49.2	46.0	45.7	43.0	46.7	48.0	49.1
	Hispanic	21.6	24.2	24.4	22.0	24.2	27.4	24.5	27.7	25.3	27.7	27.4
	Black	2.6	2.2	1.4	2.2	1.5	1.6	0.9	2.2	1.6	2.0	1.4
	American Indian	26.2	24.0	22.8	20.7	23.2	23.5	26.6	24.8	25.2	21.0	19.7
	Asian	2.3	1.4	2.2	1.6	1.9	1.5	2.3	2.3	1.3	1.3	2.5
<b>Prenatal care began</b>	1st Trimester	77.3	76.5	74.0	62.5	59.5	61.6	61.4	58.2	55.3	59.4	61.0
	3rd Trimester	3.5	3.4	4.2	4.0	5.1	5.6	5.0	5.3	5.1	6.5	5.5
	No care	4.0	3.8	4.1	4.0	7.3	8.7	7.2	11.2	12.4	7.4	6.2
<b>Prenatal visits</b>	1-4	8.7	13.1	10.3	9.7	12.2	14.3	13.1	13.3	13.5	10.6	13.0
	≥5	86.2	82.0	84.7	84.9	77.6	74.7	77.0	70.9	71.1	76.8	77.5
	≥9	60.4	59.2	58.9	58.2	49.5	50.0	46.9	41.5	46.4	48.2	49.1
	≥13	25.2	22.9	23.3	19.2	17.8	17.6	18.8	14.1	17.8	17.4	17.1
<b>Medical risks/complications<sup>d</sup></b>		60.2	67.4	65.4	<b>58.0</b>	<b>59.9</b>	63.9	63.6	70.9	68.0	72.2	70.4
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	64.0	70.5	66.6	61.0	65.2	63.6	67.9	66.5	68.8	64.2	64.4
<b>Birth weight</b>	<1,500 grams	13.5	14.5	15.7	15.3	10.0	14.7	16.4	17.0	16.3	16.5	13.6
	<1,000 grams	6.0	6.2	6.3	7.1	5.7	6.7	6.7	8.6	6.6	8.2	6.1
<b>Child's sex</b>	Male	45.9	49.2	50.0	45.0	44.6	46.4	47.9	49.0	47.1	45.6	45.2
	Female	54.1	50.8	50.0	55.0	55.4	53.6	52.1	51.0	52.9	54.4	54.8
<b>Plurality</b>	Multiple births	20.5	17.9	19.5	20.2	17.5	19.8	16.5	19.2	20.9	20.3	19.2
<b>Caesarean delivery</b>		41.4	41.8	45.5	42.3	45.2	46.0	44.3	47.2	47.6	46.0	48.4
<b>Place of delivery</b>	Hospital <sup>f</sup>	98.5	98.9	99.2	99.0	98.4	98.1	98.0	98.8	99.5	98.8	99.1
<b>Attendant at birth</b>	Midwife <sup>g</sup>	6.3	5.2	5.7	9.2	9.7	10.7	11.9	11.4	10.6	13.9	12.0
<b>Previous live births</b>	1 or more	62.2	62.4	63.3	61.1	62.3	61.0	63.7	64.1	66.8	59.9	65.5

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, 2011-2021**  
**(WHITE NON-HISPANIC MOTHERS)**

<b>Characteristic</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>2021</b>
<b>Number of births</b>	38,294	38,670	38,220	40,097	38,180	37,762	35,685	34,909	34,118	33,101	33,851
<b>Age of mother</b>											
≤19 Years	5.5	5.1	4.7	4.4	4.0	3.6	3.3	3.1	2.9	2.7	2.4
≥30 Years	41.5	42.9	43.2	45.1	45.6	47.0	48.0	49.2	49.3	51.1	52.2
<b>Marital status</b>											
Unmarried	29.5	30.4	30.3	31.1	31.5	31.3	30.7	31.1	31.3	31.1	30.5
<b>Mother's education</b>											
<9 years	1.2	1.0	0.8	0.7	0.8	0.6	0.8	0.7	0.7	0.7	0.7
<b>Prenatal care began</b>											
1st Trimester	88.0	88.4	87.4	71.7	73.2	74.7	74.6	75.7	75.8	75.1	77.3
3rd Trimester	1.8	1.8	2.0	3.5	3.7	3.9	4.2	4.3	4.8	4.7	4.5
No Care	0.6	0.6	0.7	1.1	1.3	1.4	1.6	1.6	1.5	1.5	1.7
<b>Prenatal visits</b>											
1-4	1.7	2.0	2.1	2.6	2.7	2.8	3.1	3.2	3.7	3.6	3.2
≥5	97.1	97.1	97.1	94.8	94.5	94.0	93.8	94.0	92.6	92.6	94.0
≥9	86.9	87.3	87.2	83.7	83.2	82.2	82.0	81.5	78.8	77.8	80.3
≥13	39.7	41.2	41.9	36.6	36.2	35.5	37.3	36.8	33.1	32.5	33.2
<b>Medical risks/ Complications<sup>b</sup></b>	46.1	50.6	55.1	<b>32.8</b>	<b>35.4</b>	37.9	39.7	40.3	43.3	45.4	46.4
<b>Gestational Age<sup>c</sup></b>											
Preterm (<37 weeks)	9.1	8.7	8.4	8.6	8.6	8.5	8.6	8.9	8.7	8.9	9.5
<b>Birth weight</b>											
<2,500 grams	6.7	6.5	6.4	6.8	6.6	6.8	7.0	7.1	6.8	6.8	7.2
<1,500 grams	1.1	1.0	1.0	1.1	1.0	1.1	1.0	1.1	1.0	1.0	1.1
<b>Child's sex</b>											
Male	51.1	51.3	51.3	51.3	51.6	50.9	50.7	51.5	51.7	50.6	51.5
Female	48.9	48.7	48.7	48.7	48.4	49.1	49.3	48.5	48.3	49.4	48.5
<b>Plurality</b>											
Multiple births	3.5	3.4	3.6	3.7	3.4	3.8	3.9	3.7	3.5	3.4	3.3
<b>Caesarean delivery</b>	29.4	28.7	28.4	28.8	28.1	28.0	27.2	27.4	27.8	28.3	28.5
<b>Place of delivery</b>											
Hospital <sup>d</sup>	97.4	97.4	97.6	97.4	97.2	96.9	96.9	96.8	97.0	96.4	95.8
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	4.9	6.0	6.5	12.6	14.1	15.1	15.6	15.4	16.4	16.1	15.9
<b>Previous live births</b>											
1 or more	59.2	59.6	60.5	60.9	61.5	62.2	61.7	62.0	61.3	60.6	61.1

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-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, 2011-2021  
(WHITE NON-HISPANIC MOTHERS)**

<b>Characteristic</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>2021</b>
<b>Number of LBW births</b>	2,586	2,505	2,459	2,715	2,538	2,585	2,507	2,463	2,331	2,248	2,449
<b>Age of mother</b>											
≤19 years	6.8	6.5	5.2	4.8	5.5	4.3	4.4	3.7	3.3	2.9	3.2
≥30 years	44.8	45.5	42.5	47.5	47.8	49.5	49.9	54.1	50.6	52.7	55.0
<b>Marital status</b>											
Unmarried	36.2	37.2	36.9	37.9	39.9	35.8	37.5	37.0	39.3	37.6	37.8
<b>Mother's education</b>											
<9 years	1.5	1.4	1.6	1.1	0.9	0.8	0.7	1.0	0.9	1.0	1.3
<b>Prenatal care began</b>											
1st Trimester	86.4	84.2	83.9	69.4	71.1	70.9	71.5	70.8	69.5	71.6	70.7
3rd Trimester	1.4	2.0	2.2	3.2	3.0	3.8	3.7	3.8	3.9	4.3	3.3
No Care	1.7	2.2	1.6	3.4	3.9	3.6	3.8	5.0	4.4	4.4	5.5
<b>Prenatal visits</b>											
1-4	4.5	6.1	5.6	6.0	7.8	7.0	8.0	8.7	8.6	9.1	8.1
≥5	92.5	91.1	92.4	88.7	85.3	86.0	85.5	82.8	83.0	82.9	84.2
≥9	71.5	71.4	70.6	67.4	64.3	63.5	61.1	57.3	56.6	55.9	57.0
≥13	34.6	31.7	33.0	28.4	24.0	25.3	25.5	24.8	21.4	20.3	21.1
<b>Medical risks/ Complications<sup>b</sup></b>	72.2	74.2	75.2	<b>60.4</b>	<b>58.6</b>	62.3	64.5	67.5	64.8	69.1	68.1
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	70.9	71.4	70.7	68.7	70.0	69.4	66.5	70.8	67.8	70.2	71.6
<b>Birth weight</b>											
<1,500 grams	16.7	16.1	15.3	16.4	8.8	15.6	13.6	15.1	14.2	14.9	14.5
<1,000 grams	7.6	7.6	6.9	7.3	6.3	7.0	6.1	7.2	5.8	7.1	6.3
<b>Child's sex</b>											
Male	47.1	46.7	49.3	47.0	46.7	45.9	45.8	46.7	48.8	45.4	46.6
Female	52.9	53.3	50.7	53.0	53.3	54.1	54.2	53.3	51.2	54.6	53.4
<b>Plurality</b>											
Multiple births	29.1	28.8	29.7	30.3	27.2	30.6	27.3	30.1	27.5	27.4	24.5
<b>Caesarean delivery</b>	50.9	52.5	49.5	52.2	52.2	52.3	49.3	51.1	51.6	53.5	53.4
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.2	99.4	99.6	99.5	99.3	99.2	99.0	99.4	99.3	99.0	99.3
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	1.0	1.3	1.7	11.4	11.9	12.8	13.3	14.0	14.5	16.1	14.8
<b>Previous live births</b>											
1 or more	56.2	57.9	56.8	58.8	56.5	59.1	57.1	59.9	57.4	57.3	58.4

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-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, 2011-2021  
(HISPANIC OR LATINO MOTHERS)**

<b>Characteristic</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>2021</b>
<b>Number of births</b>	32,398	33,146	33,075	33,715	34,264	33,874	33,191	32,995	32,575	31,859	32,288
<b>Age of mother</b>											
≤19 years	14.3	14.0	12.3	11.3	9.9	9.3	9.0	8.5	8.0	7.6	6.8
≥30 years	29.8	30.2	30.6	31.9	32.3	32.5	33.3	33.6	34.5	35.7	36.1
<b>Marital status</b>											
Unmarried	56.6	57.2	57.1	56.1	56.2	55.8	55.1	54.7	55.0	55.0	56.2
<b>Mother's education</b>											
<9 years	9.3	8.7	7.6	7.5	6.7	6.2	5.5	5.3	5.0	4.5	4.0
<b>Prenatal care began</b>											
1st Trimester	76.5	78.2	76.2	60.5	63.6	63.9	63.4	63.8	64.2	64.4	68.1
3rd Trimester	4.1	4.3	5.0	6.9	6.9	7.4	6.8	7.7	8.4	8.1	7.2
No Care	2.5	1.9	2.1	3.2	3.0	3.4	4.1	3.7	3.4	3.2	3.1
<b>Prenatal visits</b>											
1-4	4.4	4.5	4.8	5.4	5.3	5.6	5.3	6.1	6.7	6.3	5.6
≥5	92.7	93.3	93.0	90.2	90.9	89.9	88.8	89.0	88.5	88.9	90.7
≥9	76.3	77.0	77.0	73.5	73.0	72.0	71.6	70.3	68.6	68.8	71.8
≥13	28.8	29.1	29.0	26.2	26.1	25.8	26.8	26.9	26.7	27.1	28.6
<b>Medical risks/ Complications<sup>b</sup></b>	44.2	52.6	54.6	<b>34.2</b>	<b>40.0</b>	41.6	43.0	45.2	47.6	50.4	51.6
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	9.1	9.4	9.3	9.2	9.0	9.2	9.3	9.5	9.2	9.3	9.6
<b>Birth weight</b>											
<2,500 grams	6.4	6.8	6.6	6.7	6.9	7.1	7.0	7.2	7.0	7.0	7.6
<1,500 grams	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.1	1.1	1.3
<b>Child's sex</b>											
Male	51.4	51.2	51.3	51.3	50.9	50.9	50.6	51.1	50.7	51.0	50.9
Female	48.6	48.8	48.7	48.7	49.1	49.1	49.4	48.9	49.3	49.0	49.1
<b>Plurality</b>											
Multiple births	2.1	2.1	2.4	2.2	2.4	2.5	2.6	2.8	2.2	2.5	2.6
<b>Caesarean delivery</b>	26.1	26.0	26.7	26.1	26.3	26.3	25.6	26.7	26.9	27.3	27.9
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.6	99.6	99.6	99.5	99.5	99.4	99.3	99.3	99.3	99.2	99.0
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	5.3	6.1	5.9	7.4	9.8	10.9	11.8	11.4	12.1	11.5	10.7
<b>Previous live births</b>											
1 or more	66.6	66.2	67.0	67.4	67.1	67.7	66.8	65.9	65.7	64.8	64.0

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-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, 2011-2021  
(HISPANIC OR LATINO MOTHERS)**

<b>Characteristic</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>2021</b>
<b>Number of LBW births</b>	2,075	2,256	2,199	2,247	2,364	2,400	2,339	2,378	2,276	2,215	2,455
<b>Age of mother</b>											
≤19 years	16.6	15.0	12.9	11.7	10.9	9.9	10.0	9.3	8.1	8.2	7.2
≥30 years	29.3	32.3	31.7	33.0	35.4	35.0	34.7	37.2	39.9	39.9	41.8
<b>Marital status</b>											
Unmarried	61.7	61.9	61.5	58.1	58.5	58.4	58.4	58.8	56.0	58.1	59.7
<b>Mother's education</b>											
<9 years	9.3	8.5	7.2	7.4	6.4	7.0	5.6	5.1	5.1	5.1	3.7
<b>Prenatal care began</b>											
1st Trimester	77.2	76.5	74.8	59.3	60.3	62.2	61.9	60.6	62.6	61.8	65.3
3rd Trimester	2.7	3.2	3.8	4.9	4.4	5.0	4.9	5.6	6.1	5.6	5.1
No Care	4.3	3.7	4.2	5.8	5.6	6.1	7.1	7.4	7.3	7.1	6.2
<b>Prenatal visits</b>											
1-4	9.7	10.6	9.5	10.5	9.5	10.7	10.7	10.8	13.3	12.8	10.4
≥5	85.4	85.4	85.9	82.2	83.4	80.7	79.9	78.8	77.3	78.1	82.1
≥9	59.9	59.9	63.7	55.2	54.0	52.2	52.5	48.9	49.6	48.0	51.1
≥13	23.6	21.9	24.1	16.3	15.7	16.3	17.2	16.5	17.4	16.7	18.7
<b>Medical risks</b>											
<b>Complications<sup>b</sup></b>	66.4	73.8	70.3	<b>57.1</b>	<b>61.1</b>	61.0	65.2	69.2	70.7	71.2	70.4
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	71.4	72.0	71.5	72.0	69.4	68.6	69.9	70.0	69.7	69.4	69.5
<b>Birth weight</b>											
<1,500 grams	16.6	16.8	16.7	16.6	16.2	16.3	17.9	17.4	15.9	15.3	16.5
<1,000 grams	8.9	8.2	8.0	8.9	7.7	8.1	9.1	8.3	7.9	7.9	8.7
<b>Child's sex</b>											
Male	46.7	51.1	49.9	49.3	48.3	50.5	48.2	49.0	48.5	50.1	47.3
Female	53.3	48.9	50.1	50.7	51.7	49.5	51.8	51.0	51.5	49.9	52.7
<b>Plurality</b>											
Multiple births	18.1	18.5	21.3	18.0	18.4	19.5	20.9	21.6	19.1	19.4	19.4
<b>Caesarean delivery</b>	44.4	43.3	46.5	42.9	45.3	45.4	44.5	48.0	49.2	46.0	50.6
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.6	99.8	99.8	99.9	99.7	99.5	99.5	100.0	99.6	99.5	99.7
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	2.4	3.0	2.5	7.0	9.1	9.6	11.3	10.3	11.6	10.1	9.2
<b>Previous live births</b>											
1 or more	62.8	63.9	63.4	63.7	64.0	63.1	63.1	62.8	63.4	60.3	62.3

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, 2011-2021**  
**(BLACK OR AFRICAN AMERICAN MOTHERS)**

Characteristic	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Number of births</b>	4,366	4,715	4,726	4,522	4,361	4,388	4,595	4,655	4,865	4,766	4,795
<b>Age of mother</b>											
≤19 years	12.8	11.5	10.7	8.7	7.2	7.2	7.2	5.8	5.8	5.4	4.5
≥30 years	30.3	30.2	30.6	34.1	36.0	35.0	37.1	39.0	41.4	41.8	43.4
<b>Marital status</b>											
Unmarried	63.6	64.8	63.7	62.5	63.2	61.3	60.6	60.6	62.7	62.9	64.3
<b>Mother's education</b>											
<9 years	4.3	4.3	3.7	3.3	4.1	4.3	4.7	3.7	4.4	3.6	3.5
<b>Prenatal care began</b>											
1st Trimester	80.4	79.9	78.2	61.4	62.2	62.8	61.4	62.4	59.8	60.3	65.1
3rd Trimester	3.0	3.4	4.5	7.7	6.9	7.9	6.5	7.6	8.3	8.1	7.3
No Care	1.6	1.1	1.3	2.8	2.5	2.2	3.3	3.0	3.0	2.7	2.6
<b>Prenatal visits</b>											
1-4	4.0	4.5	4.7	6.2	6.4	6.3	5.6	6.4	7.2	7.3	6.1
≥5	93.4	94.1	93.8	89.7	89.9	89.6	88.2	88.8	87.7	87.5	90.5
≥9	79.1	78.5	79.1	72.1	71.5	70.2	69.2	68.2	64.5	65.0	69.2
≥13	33.6	32.7	31.0	24.7	25.4	25.7	26.3	28.3	25.8	27.3	29.3
<b>Medical risks</b>											
<b>Complications<sup>b</sup></b>	52.0	56.6	57.2	<b>36.0</b>	<b>44.3</b>	44.3	45.8	49.6	53.6	54.1	55.3
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	12.7	11.9	11.8	12.1	12.2	12.4	12.4	12.4	13.2	13.1	14.1
<b>Birth weight</b>											
<2,500 grams	12.5	11.7	11.1	11.9	12.3	12.0	12.4	12.3	12.3	12.8	13.6
<1,500 grams	2.5	2.3	2.0	2.5	2.3	2.4	2.3	2.1	2.4	2.6	2.6
<b>Child's sex</b>											
Male	50.5	50.5	51.8	51.9	51.5	50.7	51.8	49.0	51.7	50.7	50.0
Female	49.5	49.5	48.2	48.1	48.5	49.3	48.2	51.0	48.3	49.3	50.0
<b>Plurality</b>											
Multiple births	3.6	4.1	3.7	4.7	3.9	3.3	4.0	4.7	4.4	4.2	4.2
<b>Caesarean delivery</b>	31.1	31.9	31.4	33.0	32.8	32.4	30.8	33.7	34.1	34.6	34.2
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.3	99.6	99.3	99.5	99.6	99.1	99.0	99.1	98.8	98.0	97.7
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	2.7	3.5	3.9	8.8	11.7	12.0	13.2	12.0	12.1	12.0	11.5
<b>Previous live births</b>											
1 or more	63.0	63.8	64.6	66.9	66.2	66.2	67.1	67.4	68.4	67.4	67.1

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, 2011-2021**  
**(BLACK OR AFRICAN AMERICAN MOTHERS)**

Characteristic	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Number of LBW births</b>	546	551	523	536	535	525	572	573	596	608	653
<b>Age of mother</b>											
≤19 years	13.7	10.2	12.8	9.0	6.9	9.1	7.9	7.5	7.6	7.1	7.5
≥30 years	33.5	32.3	33.8	35.8	38.7	33.9	38.6	40.1	40.4	42.6	45.2
<b>Marital status</b>											
Unmarried	67.9	69.0	72.8	67.0	64.9	64.0	64.2	64.9	67.6	68.4	69.8
<b>Mother's education</b>											
<9 years	2.9	2.9	3.1	2.4	3.0	4.6	3.0	2.8	3.4	1.8	4.0
<b>Prenatal care began</b>											
1st Trimester	80.0	78.8	77.8	59.1	63.9	62.5	61.0	60.0	57.2	60.7	63.4
3rd Trimester	3.1	3.4	3.3	4.7	4.5	5.1	2.8	5.4	4.0	6.3	4.9
No Care	2.4	2.4	3.4	6.2	5.0	4.6	6.5	7.2	7.7	4.9	5.7
<b>Prenatal visits</b>											
1-4	9.5	10.3	8.6	11.2	12.9	10.9	9.3	10.8	13.1	12.8	12.4
≥5	86.3	86.0	87.2	81.2	80.4	81.0	80.6	79.1	75.3	79.9	81.2
≥9	64.1	64.4	66.7	55.2	55.7	55.6	51.6	53.9	46.8	50.8	53.3
≥13	29.3	27.6	25.2	20.1	22.2	16.0	20.1	20.9	17.1	17.9	20.1
<b>Medical risks</b>											
<b>Complications<sup>b</sup></b>	68.7	68.4	70.0	<b>56.7</b>	<b>57.9</b>	59.4	61.0	68.1	67.8	69.9	70.6
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	65.6	65.7	66.9	68.3	65.0	68.2	65.2	62.8	68.3	67.3	69.8
<b>Birth weight</b>											
<1,500 grams	20.0	20.0	18.0	21.5	18.5	20.0	18.4	16.9	19.8	20.4	19.3
<1,000 grams	10.8	10.3	10.3	12.9	10.5	11.4	11.4	9.2	10.6	11.3	10.1
<b>Child's sex</b>											
Male	46.0	45.7	47.2	45.9	46.9	46.1	44.9	41.7	43.5	47.2	45.6
Female	54.0	54.3	52.8	54.1	53.1	53.9	55.1	58.3	56.5	52.8	54.4
<b>Plurality</b>											
Multiple births	17.8	21.2	21.4	22.2	22.8	15.6	20.6	22.7	24.0	19.9	21.9
<b>Caesarean delivery</b>	43.4	45.6	42.8	45.9	47.9	47.6	44.8	49.7	50.8	50.3	51.9
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.8	100.0	99.0	99.8	100.0	99.6	99.5	99.7	99.2	99.3	98.9
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	2.6	0.9	1.9	8.6	10.3	11.2	12.2	12.0	12.4	11.0	11.3
<b>Previous live births</b>											
1 or more	62.5	65.2	61.8	66.6	64.9	60.6	68.9	64.6	65.4	67.3	66.2

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-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, 2011-2021**  
**(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)**

Characteristic	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Number of births</b>	5,830	5,569	5,476	5,145	4,984	5,030	4,866	4,709	4,462	4,087	3,906
<b>Age of mother</b>											
≤19 years	16.9	16.0	14.2	11.7	11.4	10.7	10.7	9.8	9.2	8.4	8.8
≥30 years	25.0	25.2	26.6	26.7	28.9	31.3	31.0	34.4	34.6	36.7	37.9
<b>Marital status</b>											
Unmarried	77.1	78.5	79.2	78.9	79.6	78.1	77.9	78.9	78.4	78.7	79.5
<b>Mother's education</b>											
<9 years	2.5	2.5	2.4	2.2	2.1	1.9	1.7	1.9	1.6	1.4	1.6
<b>Prenatal care began</b>											
1st Trimester	68.6	68.2	68.7	58.4	58.5	60.7	59.4	56.5	57.4	57.1	57.7
3rd Trimester	6.1	7.0	6.1	7.5	8.4	8.2	8.4	9.4	9.0	10.8	10.2
No Care	2.5	2.0	2.4	2.9	4.3	4.0	4.1	5.1	5.3	4.3	5.4
<b>Prenatal visits</b>											
1-4	9.0	9.1	9.5	10.5	10.4	11.0	11.5	11.2	12.0	12.1	11.4
≥5	87.8	88.4	87.7	85.0	84.2	83.9	83.0	81.5	80.1	80.8	80.4
≥9	62.8	64.0	63.7	59.3	60.0	59.9	58.8	55.5	55.7	54.0	55.7
≥13	19.7	20.7	21.3	18.2	18.7	19.0	19.9	18.4	18.6	19.6	20.4
<b>Medical risks/ Complications<sup>b</sup></b>	53.8	60.4	61.7	<b>45.9</b>	<b>52.4</b>	53.5	56.1	59.2	60.4	60.6	64.3
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	9.0	9.7	9.7	8.2	9.6	9.9	10.9	10.4	10.6	10.8	12.4
<b>Birth weight</b>											
<2,500 grams	6.9	6.7	7.2	6.1	7.3	7.2	7.7	7.9	7.9	7.2	7.8
<1,500 grams	1.3	1.1	1.0	0.9	1.3	1.3	1.3	1.4	1.3	1.2	1.3
<b>Child's sex</b>											
Male	50.7	50.5	51.6	49.7	50.8	50.4	51.6	52.0	51.3	51.8	51.0
Female	49.3	49.5	48.4	50.3	49.2	49.6	48.4	48.0	48.7	48.2	49.0
<b>Plurality</b>											
Multiple births	1.5	1.6	1.8	1.3	1.8	2.2	2.2	2.0	2.1	1.7	2.2
<b>Caesarean delivery</b>	23.1	23.8	24.0	22.7	22.6	23.5	24.4	25.2	24.6	26.8	26.2
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.6	99.7	99.7	99.7	99.4	99.5	99.5	99.2	99.5	99.4	99.5
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	27.9	27.8	27.6	10.6	9.1	9.8	10.0	10.0	10.0	11.9	11.0
<b>Previous live births</b>											
1 or more	66.5	67.6	68.5	70.0	71.0	71.4	70.5	71.2	70.5	69.9	70.5

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, 2011-2021  
(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)**

<b>Characteristic</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>2021</b>
<b>Number of LBW births</b>	403	372	393	315	365	363	376	373	353	294	306
<b>Age of mother</b>											
≤19 years	18.9	18.0	10.2	10.8	10.1	8.5	10.4	9.4	6.2	8.5	5.9
≤30 years	26.8	33.1	29.5	30.8	34.5	35.5	38.0	42.9	41.6	38.8	51.6
<b>Marital status</b>											
Unmarried	81.1	80.9	82.2	78.4	81.9	75.2	79.8	80.7	79.9	83.0	79.1
<b>Mother's education</b>											
<9 years	2.0	3.2	5.1	2.9	3.6	1.1	2.9	2.4	2.3	2.0	2.3
<b>Prenatal care began</b>											
1st Trimester	70.0	69.1	66.9	46.7	48.5	54.0	54.0	45.0	47.3	50.0	47.1
3rd Trimester	4.0	4.3	8.4	5.1	6.6	6.3	4.3	5.9	4.2	9.2	10.5
No Care	6.7	5.9	4.3	8.6	13.7	9.9	10.1	17.2	19.3	8.2	9.8
<b>Prenatal visits</b>											
1-4	11.4	15.1	17.6	15.6	15.3	18.5	15.2	17.7	18.7	22.8	18.6
≥5	79.7	78.2	76.8	72.7	66.6	69.4	70.5	59.5	58.4	63.9	64.1
≥9	47.4	51.6	50.6	40.6	40.5	41.3	40.2	28.7	34.0	39.8	36.3
≥13	13.9	16.4	15.3	10.2	11.2	12.9	14.9	8.8	10.2	14.3	14.7
<b>Medical risks/ Complications<sup>b</sup></b>	65.5	70.2	71.2	<b>65.7</b>	<b>68.5</b>	70.8	71.3	77.2	85.0	80.6	85.3
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	69.0	79.0	70.7	65.1	69.9	71.1	72.1	68.1	70.3	69.4	72.9
<b>Birth weight</b>											
<1,500 grams	18.4	16.7	13.7	14.6	18.1	17.6	16.8	17.4	16.1	17.3	16.7
<1,000 grams	9.2	8.9	4.6	7.9	8.5	7.7	6.4	8.3	6.5	8.2	6.5
<b>Child's sex</b>											
Male	46.4	49.2	51.4	44.4	45.8	52.1	50.3	49.9	43.6	51.0	44.8
Female	53.6	50.8	48.6	55.6	54.2	47.9	49.7	50.1	56.4	49.0	55.2
<b>Plurality</b>											
Multiple births	11.7	15.6	12.7	9.8	13.4	17.4	10.6	13.1	13.9	12.9	14.4
<b>Caesarean delivery</b>	34.5	47.3	44.3	41.9	43.8	43.3	47.3	42.9	49.0	53.1	52.6
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.5	99.7	100.0	100.0	98.6	99.2	99.2	98.4	99.7	100.0	99.7
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	10.7	8.9	11.5	10.2	7.9	8.5	11.4	8.6	8.8	7.5	8.8
<b>Previous live births</b>											
1 or more	64.3	69.6	68.7	69.8	70.4	69.7	68.4	71.3	72.5	66.7	70.6

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 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, 2011-2021**  
**(ASIAN OR PACIFIC ISLANDER MOTHERS)**

<b>Characteristic</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>2021</b>
<b>Number of births</b>	3,505	3,625	3,466	3,169	3,235	3,350	3,327	3,271	3,163	2,968	3,017
<b>Age of mother</b>											
≤19 years	3.2	2.2	2.3	1.8	1.9	1.5	1.7	1.3	1.3	1.0	0.7
≥30 years	57.4	57.3	59.2	60.4	60.5	60.8	61.9	65.1	65.6	64.9	68.7
<b>Marital status</b>											
Unmarried	17.3	17.3	16.0	15.2	14.3	15.4	14.6	14.8	14.8	16.4	17.6
<b>Mother's education</b>											
<9 years	3.1	3.1	2.7	3.0	3.1	3.0	2.9	3.0	2.3	2.3	1.8
<b>Prenatal care began</b>											
1st Trimester	86.5	87.1	86.4	70.5	71.8	73.2	72.2	72.5	73.2	74.3	77.7
3rd Trimester	2.3	2.0	2.9	4.5	5.0	4.3	4.7	5.0	6.5	5.2	4.9
No Care	1.0	0.7	0.7	1.4	1.2	1.3	1.9	1.9	1.3	1.7	1.6
<b>Prenatal visits</b>											
1-4	2.3	2.4	2.6	2.6	3.6	3.1	2.8	3.3	3.9	3.3	3.3
≥5	96.2	96.8	96.6	94.5	93.9	93.7	93.9	93.6	93.2	93.6	94.2
≥9	84.2	86.2	85.6	82.3	80.6	79.8	81.2	79.0	77.3	77.0	79.2
≥13	37.9	37.2	39.2	33.7	31.6	29.9	34.7	33.5	32.2	31.7	33.4
<b>Medical risks/ Complications<sup>b</sup></b>	47.4	52.9	57.4	<b>37.9</b>	<b>42.2</b>	44.4	47.0	47.1	49.4	51.2	51.7
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	9.0	8.4	8.9	8.0	9.4	8.7	9.6	10.0	9.5	9.3	10.3
<b>Birth weight</b>											
<2,500 grams	8.3	7.2	7.9	8.1	9.0	9.3	9.5	9.8	8.6	9.6	9.2
<1,500 grams	1.1	0.8	1.1	1.2	1.2	1.4	1.1	1.2	1.0	1.1	1.4
<b>Child's sex</b>											
Male	52.4	52.1	51.4	51.5	51.5	51.7	51.3	51.2	51.9	51.2	52.3
Female	47.6	47.9	48.6	48.5	48.5	48.3	48.7	48.8	48.1	48.8	47.7
<b>Plurality</b>											
Multiple births	3.3	2.5	3.2	3.2	3.3	3.7	3.4	3.0	3.2	2.6	2.5
<b>Caesarean delivery</b>	33.0	32.1	33.2	32.4	34.0	32.5	32.3	30.9	31.0	33.6	32.8
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.3	99.2	99.1	99.3	99.4	99.3	99.3	99.1	98.8	98.9	98.6
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	3.1	4.0	3.3	10.0	10.4	11.1	11.8	11.4	13.5	14.5	13.5
<b>Previous live births</b>											
1 or more	54.6	55.5	56.2	53.4	54.0	54.1	56.6	56.3	56.7	56.2	56.7

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-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, 2011-2021**  
**(ASIAN OR PACIFIC ISLANDER MOTHERS)**

Characteristic	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Number of LBW births</b>	292	262	275	256	291	313	315	319	273	285	277
<b>Age of mother</b>											
≤19 years	5.1	5.0	1.5	1.2	1.7	1.0	1.9	2.2	1.8	0.7	1.4
≤30 years	58.6	64.9	66.2	64.1	61.5	63.3	63.5	69.3	66.7	69.5	70.8
<b>Marital status</b>											
Unmarried	18.2	18.3	12.4	14.1	15.1	13.7	17.1	17.9	13.2	16.5	17.7
<b>Mother's education</b>											
<9 years	4.1	3.8	3.6	4.3	2.7	3.2	2.9	3.1	1.5	3.5	1.8
<b>Prenatal care began</b>											
1st Trimester	83.9	87.8	86.9	70.3	72.9	74.4	74.0	70.2	76.2	70.2	76.9
3rd Trimester	2.1	0.4	3.6	4.7	3.8	2.9	2.5	4.1	5.1	3.5	1.8
No Care	2.7	0.8	0.7	3.5	2.7	2.9	2.5	4.7	1.8	2.5	3.6
<b>Prenatal visits</b>											
1-4	4.8	2.3	6.2	4.7	8.6	7.0	4.4	7.2	5.9	6.0	7.9
≥5	92.5	96.9	93.1	88.7	86.9	87.2	92.1	85.9	91.2	89.5	87.4
≥9	72.9	78.6	73.5	66.8	64.6	67.7	70.5	58.9	64.8	61.8	62.8
≥13	30.8	32.8	31.6	25.4	29.6	22.0	28.3	22.3	29.7	21.1	23.1
<b>Medical risks/ Complications<sup>b</sup></b>	68.8	72.5	73.8	<b>54.7</b>	<b>56.0</b>	61.0	67.9	64.9	63.0	66.0	65.7
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	64.7	63.0	61.1	60.2	60.1	60.7	61.9	63.9	63.0	65.6	62.5
<b>Birth weight</b>											
<1,500 grams	12.7	11.5	13.5	15.2	13.1	15.3	11.7	11.9	11.7	11.2	14.8
<1,000 grams	6.2	5.3	6.2	6.6	6.5	8.6	6.0	5.3	6.2	4.9	6.9
<b>Child's sex</b>											
Male	46.9	52.7	46.5	49.2	48.8	45.4	46.0	44.2	53.5	49.5	49.1
Female	53.1	47.3	53.5	50.8	51.2	54.6	54.0	55.8	46.5	50.5	50.9
<b>Plurality</b>											
Multiple births	25.7	20.2	23.6	24.2	25.1	24.0	20.3	20.4	20.9	21.1	15.5
<b>Caesarean delivery</b>	51.4	44.3	53.1	47.7	51.5	47.0	50.8	48.3	44.7	51.2	46.6
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.7	100.0	100.0	100.0	100.0	99.7	99.7	99.7	98.5	99.6	99.6
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	0.3	2.7	2.2	12.1	12.0	8.6	12.4	9.4	15.4	13.3	15.2
<b>Previous live births</b>											
1 or more	55.5	53.1	56.4	46.9	54.6	50.8	47.6	52.7	52.0	53.0	51.6

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 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, 2011-2021**

Weight in grams	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Under 1,000, total</b>	496	480	433	509	448	492	472	476	419	441	472
<b>Single</b>	379	383	332	384	358	380	375	383	319	341	383
<b>Plural</b>	117	97	101	125	90	112	97	93	100	100	89
<b>1,000-1,499, total</b>	505	506	494	509	523	519	492	509	483	438	508
<b>Single</b>	374	387	341	379	386	395	369	358	361	327	390
<b>Plural</b>	131	119	153	130	137	124	123	151	122	111	118
<b>1,500-1,999, total</b>	1,131	1,197	1,152	1,156	1,133	1,166	1,105	1,257	1,134	1,073	1,196
<b>Single</b>	794	814	830	803	793	808	784	837	795	758	848
<b>Plural</b>	337	383	322	353	340	358	321	420	339	315	348
<b>2,000-2,499, total</b>	3,817	3,763	3,770	3,895	3,988	4,009	4,040	3,864	3,793	3,698	3,964
<b>Single</b>	3,043	2,994	2,920	3,063	3,186	3,124	3,186	3,028	3,030	2,960	3,213
<b>Plural</b>	774	769	850	832	802	885	854	836	763	738	751
<b>2,500-3,999, total</b>	72,777	73,096	72,494	73,627	72,240	71,613	69,200	68,157	67,354	65,280	65,815
<b>Single</b>	71,741	72,085	71,377	72,449	71,109	70,450	67,940	67,032	66,337	64,270	64,809
<b>Plural</b>	1,036	1,011	1,117	1,178	1,131	1,163	1,260	1,125	1,017	1,010	1,006
<b>4,000 and over, total</b>	6,450 <sup>†</sup>	6,680 <sup>†</sup>	6,540 <sup>†</sup>	6,900 <sup>†</sup>	6,630 <sup>†</sup>	6,570 <sup>†</sup>	6,310 <sup>†</sup>	6,240 <sup>†</sup>	5,950 <sup>†</sup>	5,790 <sup>†</sup>	5,842
<b>Single</b>	6,450	6,674	6,537	6,900	6,633	6,569	6,310	6,234	5,951	5,787	5,842
<b>Plural</b>	*	*	*	*	*	*	*	*	*	*	0
<b>All weights, total<sup>a</sup></b>	85,190	85,725	84,963	86,648	85,024	84,404	81,664	80,539	79,183	76,781	77,857
<b>Single</b>	82,793	83,342	82,415	84,014	82,501	81,752	79,005	77,909	76,837	74,501	75,543
<b>Plural</b>	2,400 <sup>†</sup>	2,380 <sup>†</sup>	2,550 <sup>†</sup>	2,630 <sup>†</sup>	2,518	2,647	2,657	2,630	2,343	2,280	2,313

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, 2011-2021**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<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
<b>2021</b>	6,156	5,606	6,002	6,024	6,051	6,217	6,904	7,094	7,097	7,049	6,693	6,964	77,857
<b>Percent</b>	7.9	7.2	7.7	7.7	7.8	8.0	8.9	9.1	9.1	9.1	8.6	8.9	100.0

**TABLE 1B-18  
BIRTHS BY DAY AND MONTH OF OCCURRENCE, ARIZONA RESIDENTS, 2021**

TOTAL	Month of birth											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
77,857	6,156	5,606	6,002	6,024	6,051	6,217	6,904	7,094	7,097	7,049	6,693	6,964
2,491	189	201	197	210	153	181	224	181	263	230	228	234
2,645	164	204	214	231	159	212	247	225	274	211	265	239
2,500	154	211	207	181	203	214	188	239	231	181	254	237
2,593	198	222	217	186	238	232	175	242	218	243	234	188
2,522	210	215	211	185	236	195	156	232	187	247	266	182
2,482	218	161	177	210	220	171	220	226	178	248	212	241
2,499	228	150	132	220	205	182	270	194	254	227	190	247
2,734	214	224	211	251	191	230	247	188	246	239	234	259
2,603	188	206	207	213	154	211	255	207	272	219	234	237
2,546	157	216	204	187	184	227	207	232	266	185	234	247
2,563	188	222	231	143	218	228	191	263	220	223	254	182
2,647	222	224	212	227	218	191	218	236	208	243	239	209
2,473	199	187	152	219	207	160	215	256	234	233	198	213
2,511	215	156	171	188	204	224	207	187	266	253	178	262
2,662	215	202	202	240	154	211	246	196	254	248	236	258
2,671	184	227	205	221	146	214	247	264	263	197	225	278
2,526	155	222	209	182	232	210	210	258	233	168	228	219
2,506	189	218	214	143	205	249	185	225	192	236	251	199
2,508	213	187	203	189	222	182	235	240	180	253	234	170
2,499	199	177	171	206	213	128	233	255	232	230	223	232
2,602	242	152	139	204	236	220	233	204	277	261	184	250
2,677	244	202	199	218	140	230	261	197	255	239	238	254
2,630	164	221	208	206	133	227	238	245	251	208	271	258
2,480	160	216	209	151	215	229	188	238	257	193	246	178
2,472	204	228	226	150	215	216	205	273	227	240	159	129
2,494	206	221	187	218	208	191	222	228	188	264	185	176
2,542	238	187	146	203	223	149	237	280	206	269	181	223
2,503	220	147	131	208	212	214	235	210	248	250	182	246
2,457	218		197	204	182	236	255	190	259	233	205	278
2,410	200		205	230	171	253	216	226	258	199	225	227
1,409	161		208		154		238	257		179		212

**TABLE 1B-19  
LIVE BIRTHS BY MOTHER'S AGE AND FATHER'S AGE, ARIZONA, 2021**

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	10	157	86	13	0	0	0	0	0	0	266
18-19	0	187	595	304	19	*	0	0	0	0	1,110†
20-24	0	96	997	6,741	1,245	217	43	8	*	0	9,350†
25-29	0	*	165	4,301	10,858	2,091	320	55	0	0	17,800†
30-34	0	*	45	1,039	6,622	10,259	1,557	138	*	0	19,670†
35-39	0	0	22	254	1,535	5,409	4,771	462	22	0	12,475
40-44	0	0	9	97	478	1,398	2,225	805	34	0	5,046
45-49	0	0	0	34	148	370	618	420	49	0	1,639
50-54	0	0	*	25	56	110	182	128	33	*	540†
55+	0	0	*	8	28	70	78	64	24	*	270†
Unknown	29	419	747	2,871	2,628	1,865	870	237	28	0	9,694
<b>TOTAL</b>	<b>40†</b>	<b>870†</b>	<b>2,670†</b>	<b>15,687</b>	<b>23,617</b>	<b>21,790†</b>	<b>10,664</b>	<b>2,317</b>	<b>200†</b>	<b>0†</b>	<b>77,857</b>

**TABLE 1B-20  
LIVE BIRTHS BY MOTHER'S RACE/ETHNICITY AND FATHER'S RACE/ETHNICITY, ARIZONA, 2021**

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	27,169	9,621	1,734	1,219	884	40,627
Hispanic or Latino	4,744	21,010	299	524	270	26,847
Black or African American	1,238	1,022	2,730	90	65	5,145
American Indian or Alaska Native	226	381	16	2,045	15	2,683
Asian or Pacific Islander	474	254	16	28	1,783	2,555
<b>TOTAL</b>	<b>33,851</b>	<b>32,288</b>	<b>4,795</b>	<b>3,906</b>	<b>3,017</b>	<b>77,857</b>

**TABLE 1B-21  
LIVE BIRTHS BY MOTHER'S AND FATHER'S EDUCATION, ARIZONA, 2021**

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	687	441	490	199	124	53	14	*	2,011
Some High School	273	2,799	2,787	1,267	376	220	69	16	7,807
High School/ GED	266	2,220	9,481	4,426	1,631	1,646	432	27	20,129
Some College	63	582	2,875	5,907	1,557	2,564	842	20	14,410
Associate Degree	53	174	824	1,247	1,155	1,384	452	*	5,292
Bachelor's Degree	26	112	946	1,647	1,076	5,683	2,479	6	11,975
Postgraduate Education	13	21	224	438	353	2,381	2,602	*	6,036
Unknown	442	2,640	3,774	1,951	533	357	131	369	10,197
<b>TOTAL</b>	<b>1,823</b>	<b>8,989</b>	<b>21,401</b>	<b>17,082</b>	<b>6,805</b>	<b>14,288</b>	<b>7,021</b>	<b>448</b>	<b>77,857</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; 448 cases were missing mother's education and 10,197 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, 2021**

			TOTAL	Mother's age group									Un-known
				<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	
All racial/ ethnic groups	Married	Count	41,710†	0	13	241	4,555	12,946	14,808	7,507	1,531	109	*
		Percent	53.6%	0.0%	1.5%	9.0%	29.0%	54.8%	67.9%	70.4%	66.1%	55.6%	**
	Unmarried	Count	35,169	43	855	2,421	11,011	10,439	6,682	2,960	714	44	0
		Percent	45.2%	100.0%	98.4%	90.7%	70.2%	44.2%	30.7%	27.8%	30.8%	22.4%	0.0%
	Unknown	Count	980†	0	*	6	121	232	304	197	72	43	*
		Percent	1.3%	0.0%	**	0.2%	0.8%	1.0%	1.4%	1.8%	3.1%	21.9%	**
TOTAL	Count	77,860†	43	869	2,668	15,687	23,617	21,794	10,664	2,317	196	*	
Percent	100.0%	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	23,090†	0	6	75	2,183	6,990	8,671	4,296	811	54	*
		Percent	68.2%	0.0%	4.1%	11.4%	42.2%	68.6%	78.8%	78.8%	73.3%	49.1%	**
	Unmarried	Count	10,316	10	141	582	2,939	3,117	2,201	1,056	254	16	0
		Percent	30.5%	100.0%	95.9%	88.3%	56.8%	30.6%	20.0%	19.4%	23.0%	14.5%	0.0%
	Unknown	Count	450†	0	0	*	51	82	131	100	41	40	*
		Percent	1.3%	0.0%	0.0%	**	1.0%	0.8%	1.2%	1.8%	3.7%	36.4%	**
TOTAL	Count	33,850†	10	147	659	5,173	10,189	11,003	5,452	1,106	110	*	
Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**	
Hispanic or Latino	Married	Count	13,741	0	7	150	2,016	4,741	4,272	2,050	474	31	0
		Percent	42.6%	0.0%	1.2%	9.4%	24.4%	46.6%	57.6%	60.6%	58.4%	60.8%	0.0%
	Unmarried	Count	18,132	21	558	1,444	6,187	5,311	3,015	1,269	309	18	0
		Percent	56.2%	100.0%	98.6%	90.5%	74.9%	52.2%	40.6%	37.5%	38.1%	35.3%	0.0%
	Unknown	Count	420†	0	*	*	61	124	134	62	29	*	0
		Percent	1.3%	0.0%	**	**	0.7%	1.2%	1.8%	1.8%	3.6%	**	0.0%
TOTAL	Count	32,288	21	566	1,596	8,264	10,176	7,421	3,381	812	51	0	
Percent	100.0%	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	1,656	0	0	7	165	473	558	362	83	8	0
		Percent	34.5%	0.0%	0.0%	4.1%	15.7%	32.8%	44.0%	56.3%	52.2%	61.5%	0.0%
	Unmarried	Count	3,090†	*	43	162	882	958	692	266	75	*	0
		Percent	64.3%	**	100.0%	94.7%	83.7%	66.5%	54.6%	41.4%	47.2%	**	0.0%
	Unknown	Count	50†	0	0	*	7	10	18	15	*	*	0
		Percent	1.1%	0.0%	0.0%	**	0.7%	0.7%	1.4%	2.3%	**	**	0.0%
TOTAL	Count	4,800†	*	43	171	1,054	1,441	1,268	643	159	13	0	
Percent	100.0%	**	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	760†	0	0	*	92	209	275	143	32	*	0
		Percent	19.4%	0.0%	0.0%	**	9.6%	18.6%	29.5%	31.8%	34.0%	**	0.0%
	Unmarried	Count	3,110†	7	108	222	865	904	642	291	62	*	0
		Percent	79.5%	100.0%	100.0%	97.8%	90.2%	80.3%	69.0%	64.8%	66.0%	**	0.0%
	Unknown	Count	40†	0	0	0	*	13	14	15	0	0	0
		Percent	1.1%	0.0%	0.0%	0.0%	**	1.2%	1.5%	3.3%	0.0%	0.0%	0.0%
TOTAL	Count	3,910†	7	108	227	959	1,126	931	449	94	*	0	
Percent	100.0%	100.0%	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	0	*	99	533	1,032	656	131	15	0
		Percent	81.9%	0.0%	0.0%	**	41.8%	77.8%	88.1%	88.8%	89.7%	88.2%	0.0%
	Unmarried	Count	530†	*	*	11	138	149	132	78	14	*	0
		Percent	17.6%	**	**	73.3%	58.2%	21.8%	11.3%	10.6%	9.6%	**	0.0%
	Unknown	Count	20†	0	0	0	0	*	7	*	*	0	0
		Percent	0.5%	0.0%	0.0%	0.0%	0.0%	**	0.6%	**	**	0.0%	0.0%
TOTAL	Count	3,020†	*	*	15	237	685	1,171	739	146	17	0	
Percent	100.0%	**	**	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, 2021**

		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>	77,857	43	869	2,670+	15,687	23,617	21,794	10,664	2,317	196	0+
	<b>None</b>	28,823	43	815	2,201	8,736	8,447	5,924	2,201	414	41	*
	<b>1</b>	23,646	0	54	416	4,939	7,757	6,840	3,042	553	45	0
	<b>2</b>	13,551	0	0	47	1,531	4,573	4,606	2,336	426	32	0
	<b>3</b>	6,610+	0	0	*	380	1,896	2,483	1,495	329	26	*
	<b>4 or more</b>	5,210+	0	0	*	98	940	1,937	1,587	593	52	0
	<b>Unknown</b>	20+	0	0	0	*	*	*	*	*	0	0
<b>White non- Hispanic</b>	<b>TOTAL</b>	33,851	10	147	660+	5,173	10,189	11,003	5,452	1,106	110	0+
	<b>None</b>	13,163	10	141	557	3,091	4,262	3,506	1,325	244	26	*
	<b>1</b>	10,855	0	6	93	1,554	3,409	3,713	1,738	309	33	0
	<b>2</b>	5,559	0	0	8	406	1,687	2,106	1,145	193	14	0
	<b>3</b>	2,510+	0	0	*	94	596	1,017	649	138	11	*
	<b>4 or more</b>	1,753	0	0	0	25	232	657	592	221	26	0
	<b>Unknown</b>	10+	0	0	0	*	*	*	*	*	0	0
<b>Hispanic or Latino</b>	<b>TOTAL</b>	32,288	21	566	1,600+	8,264	10,176	7,421	3,381	812	50+	0
	<b>None</b>	11,626	21	528	1,298	4,494	3,151	1,518	512	96	8	0
	<b>1</b>	9,430+	0	38	261	2,657	3,383	2,157	778	154	*	0
	<b>2</b>	6,042	0	0	34	860	2,237	1,898	837	167	9	0
	<b>3</b>	3,000+	0	0	*	207	942	1,049	651	140	11	0
	<b>4 or more</b>	2,190+	0	0	*	46	463	799	603	255	18	0
	<b>Unknown</b>	0	0	0	0	0	0	0	0	0	0	0
<b>Black or African American</b>	<b>TOTAL</b>	4,800+	0+	40+	170+	1,054	1,441	1,268	643	159	10+	0
	<b>None</b>	1,580+	*	42	143	544	447	256	114	28	*	0
	<b>1</b>	1,260+	0	*	25	332	402	332	142	22	*	0
	<b>2</b>	880+	0	0	*	116	321	275	138	26	*	0
	<b>3</b>	510+	0	0	0	46	157	203	80	24	*	0
	<b>4 or more</b>	560+	0	0	0	16	114	202	169	58	*	0
	<b>Unknown</b>	0+	0	0	0	0	0	0	0	0	*	0
<b>American Indian or Alaska Native</b>	<b>TOTAL</b>	3,910+	7	108	230+	959	1,126	931	449	94	10+	0
	<b>None</b>	1,151	7	100	191	459	214	127	47	6	0	0
	<b>1</b>	1,005	0	8	34	340	359	191	61	12	0	0
	<b>2</b>	690+	0	0	*	122	260	197	94	14	*	0
	<b>3</b>	450+	0	0	0	28	169	168	68	14	*	0
	<b>4 or more</b>	610+	0	0	0	10	123	248	179	48	*	0
	<b>Unknown</b>	0+	0	0	0	0	*	0	0	0	0	0
<b>Asian or Pacific Islander</b>	<b>TOTAL</b>	3,020+	0+	10+	20+	240+	685	1,171	739	146	20+	0
	<b>None</b>	1,310+	*	*	12	148	373	517	203	40	6	0
	<b>1</b>	1,090+	0	*	*	56	204	447	323	56	*	0
	<b>2</b>	380+	0	0	0	27	68	130	122	26	*	0
	<b>3</b>	140+	0	0	0	*	32	46	47	13	*	0
	<b>4 or more</b>	100+	0	0	0	*	8	31	44	11	*	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 2011 TO 2021 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								
	2011	2021	% Change	2011	2021	% Change	2011	2021	% Change	2011	2021	% Change	2011	2021	% Change						
<b>Number of births<sup>b</sup></b>	73,040	67,950	<b>-7.0</b>	12,150	9,810	<b>-19.3</b>	38,294	33,851	<b>-11.6</b>	32,398	32,288	<b>-0.3</b>	4,366	4,795	<b>9.8</b>	5,830	3,906	<b>-33.0</b>	3,505	3,017	<b>-13.9</b>
<b>Per 100 births:</b>																					
<b>Teenage mother<sup>c</sup></b>	9.4	4.3	<b>-54.3</b>	12.7	6.5	<b>-48.8</b>	5.4	2.4	<b>-55.6</b>	14.3	6.8	<b>-52.4</b>	12.8	4.5	<b>-64.8</b>	16.9	8.8	<b>-47.9</b>	3.2	0.7	<b>-78.1</b>
<b>Unwed mother<sup>d</sup></b>	43.2	44.2	<b>2.3</b>	51.0	52.5	<b>2.9</b>	29.2	30.5	<b>4.5</b>	56.6	56.2	<b>-0.7</b>	63.6	64.3	<b>1.1</b>	77.1	79.5	<b>3.1</b>	16.3	17.6	<b>8.0</b>
<b>Early prenatal care<sup>e</sup></b>	82.5	72.5	<b>-12.1</b>	77.1	66.7	<b>-13.5</b>	87.1	77.3	<b>-11.3</b>	76.5	68.1	<b>-11.0</b>	80.4	65.1	<b>-19.0</b>	68.6	57.7	<b>-15.9</b>	86.5	77.7	<b>-10.2</b>
<b>0-4 prenatal visits</b>	4.6	6.8	<b>47.8</b>	7.2	9.8	<b>36.1</b>	2.3	4.9	<b>113.0</b>	6.9	8.6	<b>24.6</b>	5.6	8.7	<b>55.4</b>	11.5	16.8	<b>46.1</b>	3.3	4.9	<b>48.5</b>
<b>C-Section</b>	28.3	29.0	<b>2.5</b>	25.8	26.0	<b>0.8</b>	29.1	28.5	<b>-2.1</b>	26.1	27.9	<b>6.9</b>	31.1	34.2	<b>10.0</b>	23.1	26.2	<b>13.4</b>	33.0	32.8	<b>-0.6</b>
<b>LBW rate</b>	6.9	7.8	<b>13.0</b>	7.3	8.2	<b>12.3</b>	6.6	7.2	<b>9.1</b>	6.4	7.6	<b>18.8</b>	12.5	13.6	<b>8.8</b>	6.9	7.8	<b>13.0</b>	8.3	9.2	<b>10.8</b>
<b>Newborn intensive care</b>	5.7	8.0	<b>40.4</b>	3.7	7.7	<b>108.1</b>	5.5	7.9	<b>43.6</b>	5.2	7.5	<b>44.2</b>	7.5	11.2	<b>49.3</b>	4.3	9.0	<b>109.3</b>	5.2	7.0	<b>34.6</b>
<b>Preterm births (&lt; 37 weeks)</b>	9.4	10.0	<b>6.4</b>	8.8	10.1	<b>14.8</b>	9.0	9.5	<b>5.6</b>	9.1	9.6	<b>5.5</b>	12.7	14.1	<b>11.0</b>	9.0	12.4	<b>37.8</b>	9.0	10.3	<b>14.4</b>
<b>Births paid for by the AHCCCS<sup>f</sup></b>	52.5	44.9	<b>-14.5</b>	56.0	56.9	<b>1.6</b>	35.3	30.5	<b>-13.6</b>	72.7	60.3	<b>-17.1</b>	68.2	65.1	<b>-4.5</b>	59.1	65.5	<b>10.8</b>	29.7	22.9	<b>-22.9</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; <sup>e</sup> the coding of marital status has changed as such unmarried category includes divorced; <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, 2021**

	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>	77,857	67,950	9,810	100†	33,851	32,288	4,800†	3,910†	3,020†
<b>Mother's age group</b>									
<15	40†	33	10	0	10	21	*	7	*
15-17	870†	679	189	*	147	566	43	108	*
18-19	2,668	2,227	441	0	659	1,596	171	227	15
20-24	15,687	13,292	2,385	10	5,173	8,264	1,054	959	237
25-29	23,617	20,553	3,049	15	10,189	10,176	1,441	1,126	685
30-34	21,794	19,379	2,397	18	11,003	7,421	1,268	931	1,171
35-39	10,664	9,566	1,079	19	5,452	3,381	643	449	739
40-44	2,317	2,061	247	9	1,106	812	159	94	146
45+	200†	159	13	24	110	51	13	*	17
Unknown	0†	*	0	*	*	0	0	0	0
<b>Payer for birth</b>									
AHCCCS	36,163	30,508	5,585	70	10,314	19,480	3,121	2,557	691
IHS	760†	495	264	*	39	46	*	671	*
Private insurance	33,649	30,651	2,991	7	19,971	9,734	1,340	550	2,054
Self-pay	4,325	3,673	638	14	2,159	1,773	163	83	147
Unknown	2,959	2,623	332	*	1,368	1,255	167	45	124
<b>Mother's education</b>									
8th Grade or Less	1,823	1,673	146	*	241	1,298	167	64	53
Some High School	8,989	7,552	1,433	*	1,971	5,508	518	876	116
High School / GED	21,401	18,203	3,183	15	6,791	11,162	1,550	1,458	440
Some College	17,082	14,684	2,394	*	7,485	7,041	1,283	938	335
Associate Degree	6,805	5,831	973	*	3,246	2,658	397	294	210
Bachelor's Degree	14,288	13,102	1,183	*	9,205	3,372	553	185	973
Postgraduate Education	7,021	6,566	454	*	4,607	1,153	301	75	885
Unknown	450†	337	44	67	305	96	26	16	*
<b>Marital status</b>									
Married	41,711	37,174	4,536	*	23,087	13,741	1,656	757	2,470
Unmarried <sup>b</sup>	35,169	30,011	5,153	*	10,316	18,132	3,085	3,105	531
Unknown	977	765	121	91	448	415	54	44	16
<b>Weight gain</b>									
Inadequate	17,332	15,149	2,153	30	6,536	7,879	1,203	876	838
Adequate	23,029	20,214	2,792	23	10,241	9,461	1,238	1,040	1,049
Excessive	36,608	31,826	4,749	33	16,773	14,539	2,258	1,928	1,110
Unknown	888	761	116	11	301	409	96	62	20
<b>Smoking during pregnancy</b>									
Non-smoker	74,635	65,847	8,750	38	31,874	31,615	4,596	3,578	2,972
Light smoker (less than 10 cigarettes per day)	1,468	1,103	352	13	858	355	127	107	21
Heavy smoker (10 or more cigarettes per day)	1,017	721	282	14	776	160	43	28	10
Unknown	737	279	426	32	343	158	29	193	14
<b>Length of gestation</b>									
<37 weeks	7,779	6,768	990	21	3,207	3,102	674	485	311
37-41 weeks	69,838	60,997	8,767	74	30,507	29,125	4,102	3,403	2,701
42+ weeks	160†	130	28	0	89	40	16	9	*
Unknown	80†	55	25	*	48	21	*	9	*
<b>Weight at birth</b>									
<1,000 grams	472	423	49	0	154	213	66	20	19
1,000-1,499	508	448	60	0	202	193	60	31	22
1,500-2,499	5,160	4,455	694	11	2,093	2,049	527	255	236
2,500-3,999	65,815	57,369	8,362	84	28,397	27,643	3,931	3,228	2,616
4,000+ grams	5,842	5,207	633	*	2,964	2,177	206	372	123
Unknown	60†	48	12	0	41	13	*	0	*

**TABLE 1B-25 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,  
ARIZONA, 2021**

	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	1,941	1,603	302	36	574	986	124	209	48	
1st trimester	55,860	49,286	6,547	27	26,161	21,979	3,121	2,255	2,344	
2nd trimester	12,841	10,946	1,880	15	4,547	6,036	1,014	832	412	
3rd trimester	4,741	4,037	694	10	1,527	2,317	351	398	148	
Unknown	2,474	2,078	387	9	1,042	970	185	212	65	
<b>Prenatal visits</b>										
No visits	1,941	1,603	302	36	574	986	124	209	48	
1-4 visits	3,702	3,029	659	14	1,068	1,795	292	447	100	
5-8 visits	13,191	11,206	1,968	17	4,645	6,106	1,022	964	454	
9-12 visits	34,549	30,322	4,208	19	15,950	13,926	1,913	1,381	1,379	
13+ visits	23,683	21,187	2,491	*	11,223	9,250	1,405	796	1,009	
Unknown	791	603	182	6	391	225	39	109	27	
<b>Newborn intensive care</b>										
Yes	6,189	5,404	760	25	2,677	2,414	535	353	210	
No	71,668	62,546	9,050	72	31,174	29,874	4,260	3,553	2,807	
<b>Method of delivery</b>										
Vaginal	53,399	46,466	6,866	67	23,191	22,428	3,044	2,806	1,930	
C-Section	22,319	19,739	2,554	26	9,659	9,005	1,640	1,025	990	
Forceps	299	268	31	0	156	117	11	6	9	
Vacuum	1,836	1,474	358	*	842	738	100	69	87	
Unknown	0†	*	*	0	*	0	0	0	*	
<b>Obstetric procedures<sup>c</sup></b>										
Total	39,990	34,958	5,010	22	16,748	17,361	2,323	2,127	1,431	
Induction of labor	23,935	20,754	3,171	10	10,478	9,966	1,402	1,350	739	
Augmentation of labor	22,715	20,533	2,170	12	8,755	10,568	1,346	1,149	897	
Cervical cerclage	170†	143	25	0	50	80	26	*	8	
Tocolysis	359	270	89	0	112	156	42	40	9	
External cephalic version successful	100†	70	25	0	45	27	7	13	*	
External cephalic version failed	130†	100	29	0	54	48	7	16	*	
<b>Births with medical risk factors<sup>c</sup></b>										
Total	22,606	19,818	2,760	28	8,260	10,003	1,645	1,838	860	
Pre-existing diabetes	983	804	179	0	277	441	55	177	33	
Gestational diabetes	7,709	6,791	916	*	2,571	3,488	382	759	509	
Pre-existing hypertension	1,441	1,243	197	*	546	558	180	128	29	
Gestational hypertension	7,051	6,150	898	*	2,951	2,794	545	580	181	
Eclampsia	130†	115	16	*	51	58	10	11	*	
Previous preterm birth	3,548	3,063	476	9	1,365	1,541	308	240	94	
Other previous poor pregnancy outcome	4,626	4,217	403	6	1,641	2,226	410	209	140	
Gonorrhea	270†	225	37	*	57	125	41	42	*	
Syphilis	300†	224	72	*	57	120	37	80	*	
Chlamydia	1,969	1,667	295	7	351	1,141	172	276	29	
Hepatitis B	110†	103	*	*	30	18	30	*	26	
Hepatitis C	200†	174	29	*	112	66	10	15	*	

**TABLE 1B-25 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,  
ARIZONA, 2021**

	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	24,254	21,620	2,605	29	10,197	10,068	1,646	1,323	1,020	
Premature rupture of the membranes	3,992	3,497	489	6	1,518	1,751	256	290	177	
Prolonged labor	5,161	4,567	584	10	2,551	1,821	276	276	237	
Breech presentation	2,113	1,824	286	*	849	898	129	141	96	
Chorioamnionitis	3,148	2,724	421	*	1,453	1,214	198	158	125	
Meconium staining of the amniotic fluid	1,635	1,519	114	*	488	867	97	86	97	
Fetal intolerance	5,532	5,020	503	9	2,054	2,596	379	302	201	
Maternal transfusion	7,335	6,703	627	*	2,919	3,117	646	361	292	
Third or fourth degree perineal laceration	527	425	101	*	168	224	29	80	26	
Ruptured uterus	376	330	46	0	195	114	16	21	30	
Unplanned hysterectomy	40†	39	*	0	18	16	6	*	*	
Admission to intensive care unit	40†	26	16	0	21	15	0	*	*	
Unplanned surgery following delivery	180†	142	37	0	80	58	15	22	*	
Total	227	168	59	0	80	100	8	29	10	
<b>Abnormal conditions of the newborn<sup>c</sup></b>										
Total	3,998	3,287	699	12	1,840	1,461	322	238	137	
Assisted ventilation immediately after delivery	3,137	2,551	581	*	1,491	1,115	252	172	107	
Assisted ventilation for more than 6 hours	2,078	1,738	337	*	958	782	168	110	60	
Surfactant replacement therapy	411	355	56	0	190	151	36	21	13	
Suspected neonatal sepsis	1,677	1,449	217	11	721	653	153	88	62	
Seizure or serious neurologic dysfunction	30†	27	*	0	16	8	*	*	*	
Significant birth injury	90†	72	16	0	35	38	*	8	*	
Total	355	281	72	2	154	152	19	22	8	
<b>Congenital anomalies of the newborn<sup>c</sup></b>										
Anencephalus	0†	*	0	0	*	*	*	0	*	
Spina bifida / Meningocele	20†	16	*	0	7	11	*	*	0	
Cyanotic congenital heart disease	70†	61	11	0	27	30	6	6	*	
Congenital diaphragmatic hernia	10†	7	*	0	*	*	*	0	*	
Omphalocele / Gastroschisis	30†	24	*	0	10	13	*	*	0	
Limb reduction defect	10†	11	*	0	7	*	*	*	0	
Cleft lip / palate	60†	47	10	0	25	23	*	6	*	
Down syndrome	60†	52	7	0	24	31	*	*	*	
Suspected chromosomal disorder	50†	41	*	0	17	21	*	*	*	
Hypospadias	30†	23	*	0	13	11	*	0	*	
Unknown congenital anomalies	60†	26	30	*	33	15	*	*	*	

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 2011 TO 2021 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		
	2011	2021	% Change	2011	2021	% Change	2011	2021	% Change	2011	2021	% Change
<b>Number of births<sup>b</sup></b>	45,148	36,163	<b>-19.9</b>	1,663	761	<b>-54.2</b>	35,362	33,649	<b>-4.8</b>	2,635	4,325	<b>64.1</b>
<b>Per 100 births:</b>												
<b>Teenage mother<sup>c</sup></b>	15.6	8.1	<b>-48.1</b>	18.3	9.1	<b>-50.3</b>	2.4	1.1	<b>-54.2</b>	7.2	3.0	<b>-58.3</b>
<b>Unwed mother<sup>d</sup></b>	64.8	69.2	<b>6.8</b>	76.4	80.8	<b>5.8</b>	17.6	22.4	<b>27.3</b>	31.5	27.5	<b>-12.7</b>
<b>Early prenatal care<sup>e</sup></b>	75.4	64.7	<b>-14.2</b>	64.5	51.8	<b>-19.7</b>	91.7	81.8	<b>-10.8</b>	69.5	59.1	<b>-15.0</b>
<b>0-4 prenatal visits</b>	6.7	10.2	<b>52.2</b>	14.6	22.5	<b>54.1</b>	1.4	2.8	<b>100.0</b>	16.5	14.5	<b>-12.1</b>
<b>C-Section<sup>f</sup></b>	25.8	28.0	<b>8.5</b>	20.4	27.6	<b>35.3</b>	31.7	30.7	<b>-3.2</b>	19.5	19.8	<b>1.5</b>
<b>LBW rate</b>	7.4	8.8	<b>18.9</b>	5.6	7.4	<b>32.1</b>	6.7	7.2	<b>7.5</b>	4.9	5.7	<b>16.3</b>
<b>Newborn intensive care</b>	5.6	8.7	<b>55.4</b>	2.8	12.7	<b>353.6</b>	5.5	7.1	<b>29.1</b>	4.1	5.8	<b>41.5</b>
<b>Preterm birth &lt; 37 weeks</b>	9.7	11.0	<b>13.4</b>	7.3	11.4	<b>56.2</b>	9.0	9.2	<b>2.2</b>	7.2	7.2	<b>0.0</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, 2021**

	TOTAL	Payer for birth				
		AHCCCS <sup>a</sup>	IHS	Private Insurance	Self-pay	Unknown
<b>TOTAL</b>	77,857	36,163	760†	33,650†	4,330†	2,959
<b>Mother's age group</b>						
<15	40†	36	*	*	*	0
15-17	869	708	29	70	40	22
18-19	2,668	2,203	39	281	85	60
20-24	15,687	10,278	189	3,915	728	577
25-29	23,617	11,083	215	10,066	1,344	909
30-34	21,794	7,516	200	11,884	1,344	850
35-39	10,664	3,408	65	6,155	618	418
40-44	2,317	832	22	1,198	151	114
45+	200†	98	*	77	11	9
Unknown	0†	*	0	0	*	0
<b>Mother's race/ethnicity</b>						
White non-Hispanic	33,851	10,314	39	19,971	2,159	1,368
Hispanic or Latino	32,288	19,480	46	9,734	1,773	1,255
Black or African American	4,800†	3,121	*	1,340	163	167
American Indian or Alaska Native	3,906	2,557	671	550	83	45
Asian or Pacific Islander	3,020†	691	*	2,054	147	124
8th Grade or Less	1,823	1,378	23	92	113	217
Some High School	8,989	7,420	197	768	323	281
High School / GED	21,401	13,996	290	5,514	984	617
Some College	17,082	8,040	164	7,258	947	673
Associate Degree	6,805	2,579	42	3,447	442	295
Bachelor's Degree	14,288	1,951	29	10,632	1,083	593
Postgraduate Education	7,021	474	11	5,876	400	260
Unknown	450†	325	*	62	33	23
<b>Marital status</b>						
Married	41,711	10,477	135	25,902	3,055	2,142
Unmarried <sup>b</sup>	35,169	25,025	615	7,550	1,190	789
Unknown	977	661	11	197	80	28
<b>Weight gain</b>						
Inadequate	17,332	8,802	166	6,675	1,011	678
Adequate	23,029	9,991	193	10,514	1,414	917
Excessive	36,608	16,804	394	16,286	1,807	1,317
Unknown	888	566	8	174	93	47
<b>Smoking during pregnancy</b>						
Non-smoker	74,635	33,836	697	33,116	4,088	2,898
Light smoker (less than 10 cigarettes per day)	1,468	1,184	26	192	43	23
Heavy smoker (10 or more cigarettes per day)	1,020†	836	*	132	27	18
Unknown	737	307	34	209	167	20
<b>Length of gestation</b>						
<37 weeks	7,779	3,973	87	3,103	313	303
37-41 weeks	69,838	32,104	671	30,467	3,963	2,633
42+ weeks	160†	52	*	67	28	10
Unknown	80†	34	*	12	21	13
<b>Weight at birth</b>						
<1,000 grams	472	226	7	203	16	20
1,000-1,499	508	262	8	194	24	20
1,500-2,499	5,160	2,700	41	2,026	206	187
2,500-3,999	65,815	30,586	626	28,508	3,614	2,481
4,000+ grams	5,842	2,372	79	2,709	435	247
Unknown	60	17	0	9	30	*



**TABLE 1B-27 (continued)  
PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2021**

	TOTAL	Payer for birth			
		AHCCCS <sup>a</sup>	IHS	Private Insurance	Self-pay Unknown
<b>Prenatal care</b>					
No care	1,941	1,319	46	196	323
1st trimester	55,860	23,390	394	27,538	2,556
2nd trimester	12,841	7,397	172	3,838	845
3rd trimester	4,741	2,757	86	1,224	424
Unknown	2,474	1,300	63	853	177
<b>Prenatal visits</b>					
No visits	1,941	1,319	46	196	323
1-4 visits	3,702	2,386	125	742	304
5-8 visits	13,191	7,478	211	4,215	767
9-12 visits	34,549	15,011	209	16,268	1,828
13+ visits	23,683	9,629	127	11,938	1,028
Unknown	791	340	43	290	75
<b>Newborn intensive care</b>					
Yes	6,189	3,164	97	2,398	249
No	71,668	32,999	664	31,251	4,076
<b>Method of delivery</b>					
Vaginal	53,399	25,069	531	22,354	3,354
C-Section	22,319	10,127	210	10,340	858
Forceps	300†	114	*	153	17
Vacuum	1,836	852	18	802	96
Unknown	0†	*	0	0	0
<b>Obstetric procedures<sup>c</sup></b>					
Total	39,990	18,934	421	17,326	1,618
Induction of labor	23,935	11,243	272	10,568	876
Augmentation of labor	22,715	10,736	264	9,622	996
Cervical cerclage	170†	65	*	88	*
Tocolysis	359	197	11	103	16
External cephalic version successful	100†	39	*	44	*
External cephalic version failed	130†	54	*	57	*
Total	22,606	11,617	381	8,778	812
<b>Births with medical risk factors<sup>c</sup></b>					
Pre-existing diabetes	983	523	31	374	19
Gestational diabetes	7,709	3,704	150	3,285	298
Pre-existing hypertension	1,441	699	36	605	35
Gestational hypertension	7,051	3,315	137	2,980	248
Eclampsia	130†	74	*	48	6
Previous preterm birth	3,548	1,958	55	1,197	136
Other previous poor pregnancy outcome	4,626	2,471	48	1,739	136
Gonorrhea	267	207	11	30	12
Syphilis	299	233	25	24	12
Chlamydia	1,969	1,463	54	304	67
Hepatitis B	110†	60	*	35	*
Hepatitis C	200†	169	*	18	9

**TABLE 1B-27 (continued)  
PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2021**

	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	24,254	10,849	315	10,766	1,223	1,101
Premature rupture of the membranes	3,992	1,772	81	1,690	201	248
Precipitous labor	5,161	2,180	48	2,386	346	201
Prolonged labor	2,113	882	27	998	111	95
Breech presentation	3,148	1,387	22	1,477	135	127
Chorioamnionitis	1,635	736	19	689	79	112
Meconium staining of the amniotic fluid	5,532	2,744	76	2,219	272	221
Fetal intolerance	7,335	3,247	119	3,209	305	455
Maternal transfusion	527	263	25	182	29	28
Third or fourth degree perineal laceration	376	93	6	236	18	23
Ruptured uterus	40†	28	0	11	*	*
Unplanned Hysterectomy	40†	23	0	15	*	*
Admission to intensive care unit	179	85	7	77	7	*
Unplanned surgery following delivery	227	113	6	80	14	14
Total	3,998	2,010	71	1,562	171	184
<b>Abnormal conditions of the newborn<sup>c</sup></b>						
Assisted ventilation immediately after delivery	3,137	1,543	56	1,264	136	138
Assisted ventilation for more than 6 hours	2,078	1,035	43	808	97	95
Surfactant replacement therapy	411	181	15	154	29	32
Suspected neonatal sepsis	1,677	883	27	605	76	86
Seizure or serious neurologic dysfunction	30†	12	*	15	*	*
Significant birth injury	90†	39	*	36	*	9
Total	360†	189	5	129	12	20
<b>Congenital anomalies of the newborn<sup>c</sup></b>						
Anencephalus	0†	*	0	0	0	*
Spina bifida / Meningocele	20†	11	0	8	*	0
Cyanotic congenital heart disease	70†	37	*	26	*	7
Congenital diaphragmatic hernia	10†	*	0	*	*	0
Omphalocele / Gastroschisis	30†	17	*	10	0	0
Limb reduction defect	10†	8	0	*	0	0
Cleft lip / palate	60†	26	*	21	*	6
Down syndrome	60†	29	*	26	*	*
Suspected chromosomal disorder	45	23	0	19	0	*
Hypospadias	30†	11	0	12	*	*
Unknown congenital anomalies	60†	38	*	12	*	*

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, 2021**

		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>	36,163	36	708	2,203	10,278	11,083	7,516	3,408	832	98	*
	<b>IHS</b>	760†	*	29	39	189	215	200	65	22	*	0
	<b>Private insurance</b>	33,650†	*	70	281	3,915	10,066	11,884	6,155	1,198	77	0
	<b>Self-pay</b>	4,330†	*	40	85	728	1,344	1,344	618	151	11	*
	<b>Unknown</b>	2,959	0	22	60	577	909	850	418	114	9	0
	<b>TOTAL</b>	77,857	40†	869	2,668	15,687	23,617	21,794	10,664	2,317	200†	0†
<b>White non- Hispanic</b>	<b>AHCCCS</b>	10,314	7	108	492	2,635	3,271	2,373	1,100	274	53	*
	<b>IHS</b>	40†	0	0	*	*	18	11	*	*	*	0
	<b>Private insurance</b>	19,970†	*	29	126	2,002	5,795	7,445	3,813	713	46	0
	<b>Self-pay</b>	2,160†	*	6	25	283	655	750	357	76	*	*
	<b>Unknown</b>	1,370†	0	*	15	250	450	424	179	41	*	0
	<b>TOTAL</b>	33,851	10†	147	660†	5,170†	10,189	11,003	5,450†	1,110†	110†	0†
<b>Hispanic or Latino</b>	<b>AHCCCS</b>	19,480	19	480	1,380	6,049	5,896	3,644	1,589	392	31	0
	<b>IHS</b>	50†	0	*	*	10	11	9	*	*	0	0
	<b>Private insurance</b>	9,730†	*	31	124	1,565	3,334	2,963	1,401	303	12	0
	<b>Self-pay</b>	1,770†	*	32	49	374	557	486	211	58	*	0
	<b>Unknown</b>	1,260†	0	18	38	266	378	319	177	56	*	0
	<b>TOTAL</b>	32,288	20†	570†	1,600†	8,264	10,176	7,421	3,380†	810†	50†	0
<b>Black or African American</b>	<b>AHCCCS</b>	3,120†	*	38	144	805	969	731	333	93	6	0
	<b>IHS</b>	0†	0	0	0	0	*	*	*	0	0	0
	<b>Private insurance</b>	1,340†	0	*	19	180	363	447	266	56	*	0
	<b>Self-pay</b>	160†	*	*	*	31	66	40	16	*	*	0
	<b>Unknown</b>	170†	0	0	*	38	41	49	27	6	*	0
	<b>TOTAL</b>	4,800†	0†	40†	170†	1,054	1,440†	1,270†	640†	160†	10†	0
<b>American Indian or Alaska Native</b>	<b>AHCCCS</b>	2,560†	6	78	175	658	752	567	265	53	*	0
	<b>IHS</b>	670†	*	24	33	176	184	179	58	16	0	0
	<b>Private insurance</b>	550†	0	*	11	91	147	160	112	22	*	0
	<b>Self-pay</b>	80†	0	*	6	23	27	15	8	*	0	0
	<b>Unknown</b>	50†	0	0	*	11	16	10	6	0	0	0
	<b>TOTAL</b>	3,910†	10†	110†	227	959	1,126	931	449	90†	10†	0
<b>Asian or Pacific Islander</b>	<b>AHCCCS</b>	690†	*	*	12	131	195	201	121	20	*	0
	<b>IHS</b>	0†	0	0	0	0	0	0	0	*	0	0
	<b>Private insurance</b>	2,050†	0	*	*	77	427	869	563	104	12	0
	<b>Self-pay</b>	150†	0	0	*	17	39	53	26	10	0	0
	<b>Unknown</b>	124	0	0	0	12	24	48	29	11	0	0
	<b>TOTAL</b>	3,020†	0†	10†	20†	237	685	1,171	739	150†	20†	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, 2021**

		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>	1,940†	*	64	122	435	566	447	230	58	14	*
	<b>1st trimester</b>	55,860	16	402	1,584	10,440	17,177	16,456	8,003	1,669	112	*
	<b>2nd trimester</b>	12,841	14	234	602	3,125	3,779	3,093	1,567	386	41	0
	<b>3rd trimester</b>	4,741	6	138	259	1,177	1,375	1,131	510	128	17	0
	<b>Unknown</b>	2,470†	*	31	101	510	720	667	354	76	12	0
	<b>TOTAL</b>	77,857	40†	869	2,668	15,687	23,617	21,794	10,664	2,317	196	0†
<b>White non- Hispanic</b>	<b>No care</b>	574	0	10	18	92	166	156	88	31	12	*
	<b>1st trimester</b>	26,160†	*	88	442	3,642	7,957	8,782	4,343	845	57	*
	<b>2nd trimester</b>	4,550†	*	33	129	960	1,320	1,300	643	139	20	0
	<b>3rd trimester</b>	1,530†	*	13	48	319	437	436	205	55	12	0
	<b>Unknown</b>	1,040†	*	*	22	160	309	329	173	36	9	0
	<b>TOTAL</b>	33,851	10†	147	659	5,173	10,189	11,003	5,452	1,106	110	0†
<b>Hispanic or Latino</b>	<b>No care</b>	990†	*	42	89	273	277	190	95	18	0	0
	<b>1st trimester</b>	21,979	7	247	907	5,387	7,128	5,332	2,383	554	34	0
	<b>2nd trimester</b>	6,036	8	153	382	1,683	1,809	1,215	608	164	14	0
	<b>3rd trimester</b>	2,320†	*	100	162	664	688	467	183	50	*	0
	<b>Unknown</b>	970†	*	24	56	257	274	217	112	26	*	0
	<b>TOTAL</b>	32,288	20†	566	1,596	8,264	10,176	7,421	3,381	812	50†	0
<b>Black or African American</b>	<b>No care</b>	120†	*	*	*	21	40	35	16	*	*	0
	<b>1st trimester</b>	3,120†	0	18	113	685	932	843	431	94	*	0
	<b>2nd trimester</b>	1,010†	*	14	33	231	292	265	130	43	*	0
	<b>3rd trimester</b>	350†	0	6	16	81	112	81	42	11	*	0
	<b>Unknown</b>	190†	0	*	6	36	65	44	24	8	*	0
	<b>TOTAL</b>	4,800†	0†	40†	170†	1,054	1,441	1,268	643	160†	10†	0
<b>American Indian or Alaska Native</b>	<b>No care</b>	210†	*	8	12	41	66	55	22	*	0	0
	<b>1st trimester</b>	2,260†	*	45	114	581	651	552	251	53	*	0
	<b>2nd trimester</b>	830†	*	34	56	198	243	182	92	26	0	0
	<b>3rd trimester</b>	400†	*	18	30	91	108	91	52	6	*	0
	<b>Unknown</b>	210†	0	*	15	48	58	51	32	*	0	0
	<b>TOTAL</b>	3,910†	10†	108	227	959	1,126	931	449	90†	10†	0
<b>Asian or Pacific Islander</b>	<b>No care</b>	50†	0	0	0	8	17	11	9	*	*	0
	<b>1st trimester</b>	2,340†	*	*	8	145	509	947	595	123	12	0
	<b>2nd trimester</b>	410†	0	0	*	53	115	131	94	14	*	0
	<b>3rd trimester</b>	150†	*	*	*	22	30	56	28	6	*	0
	<b>Unknown</b>	70†	0	0	*	9	14	26	13	*	0	0
	<b>TOTAL</b>	3,020†	0†	10†	20†	237	685	1,171	739	150†	20†	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, 2021**

		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>	1,940†	*	64	122	435	566	447	230	58	14	*
	<b>1-4 visits</b>	3,702	7	85	220	934	1,074	862	405	95	20	0
	<b>5-8 visits</b>	13,191	12	220	612	3,071	3,927	3,326	1,609	374	39	*
	<b>9-12 visits</b>	34,549	15	323	1,050	6,718	10,568	10,131	4,739	940	65	0
	<b>13+ visits</b>	23,680†	*	168	630	4,388	7,206	6,819	3,584	829	55	0
	<b>Unknown</b>	790†	*	9	34	141	276	209	97	21	*	0
	<b>TOTAL</b>	<b>77,857</b>	<b>40†</b>	<b>869</b>	<b>2,668</b>	<b>15,687</b>	<b>23,617</b>	<b>21,794</b>	<b>10,664</b>	<b>2,317</b>	<b>196</b>	<b>0†</b>
<b>White non- Hispanic</b>	<b>No visits</b>	574	0	10	18	92	166	156	88	31	12	*
	<b>1-4 visits</b>	1,070†	*	*	36	224	325	289	137	34	16	0
	<b>5-8 visits</b>	4,650†	*	30	133	853	1,358	1,413	684	151	19	*
	<b>9-12 visits</b>	15,950†	*	58	286	2,331	4,804	5,415	2,546	474	33	0
	<b>13+ visits</b>	11,220†	*	41	178	1,617	3,389	3,619	1,946	405	27	0
	<b>Unknown</b>	390†	*	*	8	56	147	111	51	11	*	0
	<b>TOTAL</b>	<b>33,851</b>	<b>10†</b>	<b>150†</b>	<b>659</b>	<b>5,173</b>	<b>10,189</b>	<b>11,003</b>	<b>5,452</b>	<b>1,106</b>	<b>110</b>	<b>0†</b>
<b>Hispanic or Latino</b>	<b>No visits</b>	990†	*	42	89	273	277	190	95	18	0	0
	<b>1-4 visits</b>	1,800†	*	60	137	532	515	349	156	41	*	0
	<b>5-8 visits</b>	6,106	8	137	369	1,686	1,860	1,283	593	158	12	0
	<b>9-12 visits</b>	13,926	7	221	617	3,475	4,462	3,337	1,461	324	22	0
	<b>13+ visits</b>	9,250†	*	102	366	2,246	2,986	2,213	1,054	267	15	0
	<b>Unknown</b>	230†	0	*	18	52	76	49	22	*	0	0
	<b>TOTAL</b>	<b>32,288</b>	<b>20†</b>	<b>566</b>	<b>1,596</b>	<b>8,264</b>	<b>10,176</b>	<b>7,421</b>	<b>3,381</b>	<b>812</b>	<b>50†</b>	<b>0</b>
<b>Black or African American</b>	<b>No visits</b>	120†	*	*	*	21	40	35	16	*	*	0
	<b>1-4 visits</b>	290†	0	*	18	66	96	66	29	12	*	0
	<b>5-8 visits</b>	1,020†	0	16	41	232	313	257	129	30	*	0
	<b>9-12 visits</b>	1,910†	*	10	60	444	558	519	266	51	*	0
	<b>13+ visits</b>	1,410†	0	10	49	283	416	382	199	63	*	0
	<b>Unknown</b>	40†	0	0	0	8	18	9	*	0	0	0
	<b>TOTAL</b>	<b>4,800†</b>	<b>0†</b>	<b>40†</b>	<b>170†</b>	<b>1,054</b>	<b>1,441</b>	<b>1,268</b>	<b>643</b>	<b>160†</b>	<b>10†</b>	<b>0</b>
<b>American Indian or Alaska Native</b>	<b>No visits</b>	210†	*	8	12	41	66	55	22	*	0	0
	<b>1-4 visits</b>	450†	*	15	26	99	119	119	61	7	0	0
	<b>5-8 visits</b>	960†	*	36	64	252	285	202	109	14	*	0
	<b>9-12 visits</b>	1,380†	*	32	84	368	413	318	129	31	*	0
	<b>13+ visits</b>	800†	*	15	35	177	215	208	112	32	*	0
	<b>Unknown</b>	110†	0	*	6	22	28	29	16	6	0	0
	<b>TOTAL</b>	<b>3,910†</b>	<b>10†</b>	<b>108</b>	<b>227</b>	<b>959</b>	<b>1,126</b>	<b>931</b>	<b>449</b>	<b>90†</b>	<b>10†</b>	<b>0</b>
<b>Asian or Pacific Islander</b>	<b>No visits</b>	50†	0	0	0	8	17	11	9	*	*	0
	<b>1-4 visits</b>	100†	*	*	*	13	19	39	22	*	0	0
	<b>5-8 visits</b>	450†	0	*	*	48	111	171	94	21	*	0
	<b>9-12 visits</b>	1,380†	0	*	*	100	331	542	337	60	*	0
	<b>13+ visits</b>	1,010†	*	0	*	65	200	397	273	62	9	0
	<b>Unknown</b>	30†	0	0	*	*	7	11	*	0	0	0
	<b>TOTAL</b>	<b>3,020†</b>	<b>0†</b>	<b>10†</b>	<b>20†</b>	<b>237</b>	<b>685</b>	<b>1,171</b>	<b>739</b>	<b>150†</b>	<b>20†</b>	<b>0</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.

**TABLE 1B-31  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2021**

	TOTAL	Prenatal care			Visits							
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown			
<b>Mother's age group</b>												
TOTAL	77,857	1,940†	55,860	12,841	4,740†	2,470†	5,643	71,423	790†			
<15	40†	*	16	14	6	*	11	31	*			
15-17	869	64	402	234	138	31	149	711	9			
18-19	2,668	122	1,584	602	259	101	342	2,292	34			
20-24	15,687	435	10,440	3,125	1,177	510	1,369	14,177	141			
25-29	23,617	566	17,177	3,779	1,375	720	1,640	21,701	276			
30-34	21,794	447	16,456	3,093	1,131	667	1,309	20,276	209			
35-39	10,664	230	8,003	1,567	510	354	635	9,932	97			
40-44	2,317	58	1,669	386	128	76	153	2,143	21			
45+	196	14	112	41	17	12	34	159	*			
Unknown	0†	*	*	0	0	0	*	*	0			
<b>Payer for birth</b>												
AHCCCS	36,163	1,319	23,390	7,397	2,757	1,300	3,705	32,118	340			
IHS	761	46	394	172	86	63	171	547	43			
Private insurance	33,649	196	27,538	3,838	1,224	853	938	32,421	290			
Self-pay	4,325	323	2,556	845	424	177	627	3,623	75			
Unknown	2,959	57	1,982	589	250	81	202	2,714	43			
<b>Mother's education</b>												
8th Grade or Less	1,823	143	861	525	213	81	324	1,480	19			
Some High School	8,989	513	5,163	2,053	875	385	1,327	7,552	110			
High School / GED	21,401	606	14,502	4,141	1,446	706	1,807	19,381	213			
Some College	17,082	277	12,723	2,729	882	471	935	15,993	154			
Associate Degree	6,805	109	5,107	1,038	357	194	370	6,380	55			
Bachelor's Degree	14,288	115	11,516	1,632	652	373	470	13,682	136			
Postgraduate Education	7,021	35	5,856	655	273	202	204	6,756	61			
Unknown	448	143	132	68	43	62	206	199	43			
<b>Marital status</b>												
Married	41,711	449	32,465	5,636	1,983	1,178	1,741	39,591	379			
Unmarried*	35,169	1,359	22,924	6,995	2,657	1,234	3,667	31,119	383			
Unknown	977	133	471	210	101	62	235	713	29			
<b>Weight gain</b>												
Inadequate	17,332	659	11,422	3,086	1,613	552	1,952	15,196	184			
Adequate	23,029	445	16,793	3,844	1,229	718	1,352	21,449	228			
Excessive	36,608	606	27,337	5,784	1,796	1,085	1,997	34,304	307			
Unknown	888	231	308	127	103	119	342	474	72			
<b>Smoking during pregnancy</b>												
Non-smoker	74,635	1,573	54,169	12,161	4,452	2,280	4,903	69,058	674			
Light smoker (less than 10 cigarettes per day)	1,468	154	785	340	136	53	339	1,111	18			
Heavy smoker (10 or more cigarettes per day)	1,017	150	525	209	83	50	265	735	17			
Unknown	737	64	381	131	70	91	136	519	82			

**TABLE 1B-31 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2021**

	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	7,779	531	5,291	1,190	320	447	1,320	6,294	165	
37-41 weeks	69,838	1,370	50,491	11,597	4,403	1,977	4,262	64,981	595	
42+ weeks	158	11	77	39	18	13	23	131	*	
Unknown	80†	29	*	15	0	37	38	17	27	
<b>Weight at birth</b>										
<1,000 grams	470†	67	303	66	*	35	208	253	11	
1,000-1,499	508	43	329	80	12	44	111	379	18	
1,500-2,499	5,160	254	3,472	921	262	251	658	4,414	88	
2,500-3,999	65,815	1,476	47,452	10,808	4,103	1,976	4,336	60,858	621	
4,000+ grams	5,842	94	4,287	955	360	146	315	5,491	36	
Unknown	60†	7	17	11	*	22	15	28	17	
<b>Newborn intensive care</b>										
Yes	6,189	494	4,017	1,088	322	268	1,085	4,988	116	
No	71,668	1,447	51,843	11,753	4,419	2,206	4,558	66,435	675	
<b>Method of delivery</b>										
Vaginal	53,399	1,412	38,003	8,946	3,309	1,729	3,899	48,925	575	
C-Section	22,319	469	16,428	3,481	1,262	679	1,570	20,559	190	
Forceps	299	7	206	54	23	9	19	279	*	
Vacuum	1,836	52	1,223	360	147	54	154	1,660	22	
Unknown	0†	*	0	0	0	*	*	0	*	
<b>Obstetric procedures<sup>b</sup></b>										
Total	39,990	692	28,897	6,858	2,582	961	2,394	37,272	324	
Induction of labor	23,935	250	17,467	4,116	1,531	571	1,107	22,688	140	
Augmentation of labor	22,715	485	16,189	3,921	1,539	581	1,591	20,912	212	
Cervical cerclage	170†	*	120	33	*	11	16	148	*	
Tocolysis	359	14	244	61	26	14	51	299	9	
External cephalic version successful	100†	*	64	20	*	*	6	87	*	
External cephalic version failed	130†	*	97	20	9	*	*	122	*	
<b>Births with medical risk factors<sup>b</sup></b>										
Total	22,606	628	16,059	3,795	1,444	680	1,894	20,497	215	
Pre-existing diabetes	983	20	685	176	58	44	66	903	14	
Gestational diabetes	7,709	71	5,730	1,183	493	232	372	7,279	58	
Pre-existing hypertension	1,441	23	1,075	230	65	48	84	1,341	16	
Gestational hypertension	7,051	207	5,060	1,150	424	210	602	6,379	70	
Eclampsia	130†	7	91	16	*	15	14	117	*	
Previous preterm birth	3,548	162	2,444	596	212	134	434	3,062	52	
Other previous poor pregnancy outcome	4,626	150	3,341	778	280	77	396	4,189	41	
Gonorrhea	267	20	123	73	35	16	63	201	*	
Syphilis	299	42	129	71	39	18	91	198	10	
Chlamydia	1,969	80	1,120	500	213	56	286	1,673	10	
Hepatitis B	108	7	68	17	12	*	19	88	*	
Hepatitis C	204	35	91	41	21	16	69	130	*	

**TABLE 1B-31  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2021**

	TOTAL	Prenatal care			Visits				
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown
<b>TOTAL</b>	77,857	1,940†	55,860	12,841	4,740†	2,470†	5,643	71,423	790†
<b>Mother's age group</b>									
<15	40†	*	16	14	6	*	11	31	*
15-17	869	64	402	234	138	31	149	711	9
18-19	2,668	122	1,584	602	259	101	342	2,292	34
20-24	15,687	435	10,440	3,125	1,177	510	1,369	14,177	141
25-29	23,617	566	17,177	3,779	1,375	720	1,640	21,701	276
30-34	21,794	447	16,456	3,093	1,131	667	1,309	20,276	209
35-39	10,664	230	8,003	1,567	510	354	635	9,932	97
40-44	2,317	58	1,669	386	128	76	153	2,143	21
45+	196	14	112	41	17	12	34	159	*
Unknown	0†	*	*	0	0	0	*	*	0
<b>Payer for birth</b>									
AHCCCS	36,163	1,319	23,390	7,397	2,757	1,300	3,705	32,118	340
IHS	761	46	394	172	86	63	171	547	43
Private insurance	33,649	196	27,538	3,838	1,224	853	938	32,421	290
Self-pay	4,325	323	2,556	845	424	177	627	3,623	75
Unknown	2,959	57	1,982	589	250	81	202	2,714	43
<b>Mother's education</b>									
8th Grade or Less	1,823	143	861	525	213	81	324	1,480	19
Some High School	8,989	513	5,163	2,053	875	385	1,327	7,552	110
High School / GED	21,401	606	14,502	4,141	1,446	706	1,807	19,381	213
Some College	17,082	277	12,723	2,729	882	471	935	15,993	154
Associate Degree	6,805	109	5,107	1,038	357	194	370	6,380	55
Bachelor's Degree	14,288	115	11,516	1,632	652	373	470	13,682	136
Postgraduate Education	7,021	35	5,856	655	273	202	204	6,756	61
Unknown	448	143	132	68	43	62	206	199	43
<b>Marital status</b>									
Married	41,711	449	32,465	5,636	1,983	1,178	1,741	39,591	379
Unmarried*	35,169	1,359	22,924	6,995	2,657	1,234	3,667	31,119	383
Unknown	977	133	471	210	101	62	235	713	29
<b>Weight gain</b>									
Inadequate	17,332	659	11,422	3,086	1,613	552	1,952	15,196	184
Adequate	23,029	445	16,793	3,844	1,229	718	1,352	21,449	228
Excessive	36,608	606	27,337	5,784	1,796	1,085	1,997	34,304	307
Unknown	888	231	308	127	103	119	342	474	72
<b>Smoking during pregnancy</b>									
Non-smoker	74,635	1,573	54,169	12,161	4,452	2,280	4,903	69,058	674
Light smoker (less than 10 cigarettes per day)	1,468	154	785	340	136	53	339	1,111	18
Heavy smoker (10 or more cigarettes per day)	1,017	150	525	209	83	50	265	735	17
Unknown	737	64	381	131	70	91	136	519	82



**TABLE 1B-32  
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2021**

	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>	77,857	6,140	71,657	60†	7,779	69,838	160†	80†
<b>Mother's age group</b>								
<15	43	6	37	0	7	36	0	0
15-17	870†	74	794	*	78	789	*	*
18-19	2,670†	246	2,422	0	270	2,391	*	*
20-24	15,687	1,115	14,569	*	1,346	14,302	26	13
25-29	23,617	1,676	21,929	12	2,114	21,419	54	30
30-34	21,794	1,705	20,063	26	2,197	19,527	49	21
35-39	10,664	1,023	9,627	14	1,369	9,267	21	7
40-44	2,320†	260	2,053	*	357	1,952	*	*
45+	196	35	161	0	41	153	0	*
Unknown	0†	0	*	0	0	*	0	0
<b>Payer for birth</b>								
AHCCCS	36,163	3,188	32,958	17	3,973	32,104	52	34
IHS	760†	56	705	0	87	671	*	*
Private insurance	33,649	2,423	31,217	9	3,103	30,467	67	12
Self-pay	4,325	246	4,049	30	313	3,963	28	21
Unknown	2,959	227	2,728	*	303	2,633	10	13
<b>Mother's education</b>								
8th Grade or Less	1,820†	160	1,662	*	235	1,580	*	*
Some High School	8,989	867	8,114	8	1,055	7,907	15	12
High School / GED	21,401	1,760	19,631	10	2,220	19,123	37	21
Some College	17,082	1,354	15,715	13	1,717	15,321	28	16
Associate Degree	6,805	496	6,305	*	672	6,112	17	*
Bachelor's Degree	14,288	893	13,382	13	1,161	13,084	38	*
Postgraduate Education	7,021	508	6,506	7	607	6,392	18	*
Unknown	450†	102	342	*	112	319	*	16
<b>Marital status</b>								
Married	41,711	2,868	38,807	36	3,826	37,750	104	31
Unmarried*	35,169	3,137	32,013	19	3,779	31,298	51	41
Unknown	980†	135	837	*	174	790	*	10
<b>Weight gain</b>								
Inadequate	17,332	2,088	15,230	14	2,325	14,952	29	26
Adequate	23,029	1,702	21,307	20	2,164	20,811	39	15
Excessive	36,608	2,207	34,384	17	3,120	33,381	88	19
Unknown	890†	143	736	9	170	694	*	22
<b>Smoking during pregnancy</b>								
Non-smoker	74,635	5,615	68,971	49	7,184	67,243	150	58
Light smoker (less than 10 cigarettes per day)	1,470†	221	1,243	*	257	1,203	*	6
Heavy smoker (10 or more cigarettes per day)	1,020†	185	829	*	188	822	*	6
Unknown	740†	119	614	*	150	570	*	12

**TABLE 1B-32 (continued)**  
**SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2021**

	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	1,941	364	1,570	7	531	1,370	11	29
1st trimester	55,860	4,104	51,739	17	5,291	50,491	77	*
2nd trimester	12,841	1,067	11,763	11	1,190	11,597	39	15
3rd trimester	4,741	275	4,463	*	320	4,403	18	0
Unknown	2,474	330	2,122	22	447	1,977	13	37
<b>Prenatal visits</b>								
No visits	1,941	364	1,570	7	531	1,370	11	29
1-4 visits	3,702	613	3,081	8	789	2,892	12	9
5-8 visits	13,191	1,762	11,421	8	2,221	10,937	27	6
9-12 visits	34,549	2,067	32,471	11	2,683	31,824	36	6
13+ visits	23,683	1,217	22,457	9	1,390	22,220	68	*
Unknown	790†	117	657	17	165	595	*	27
<b>Newborn intensive care</b>								
Yes	6,189	2,881	3,300	8	3,512	2,648	15	14
No	71,668	3,259	68,357	52	4,267	67,190	143	68
<b>Method of delivery</b>								
Vaginal	53,399	2,873	50,470	56	3,754	49,474	107	64
C-Section	22,319	3,179	19,137	*	3,915	18,351	41	12
Forceps	300†	15	284	0	22	276	*	0
Vacuum	1,836	72	1,764	0	87	1,737	9	*
Unknown	0†	*	*	*	*	0	0	*
<b>Obstetric procedures<sup>b</sup></b>								
Total	39,990	2,272	37,716	2	2,700	37,196	83	11
Induction of labor	23,935	1,516	22,417	*	1,476	22,398	56	*
Augmentation of labor	22,715	1,028	21,687	0	1,477	21,183	47	8
Cervical cerclage	168	68	100	0	82	86	0	0
Tocolysis	360†	133	226	0	166	192	*	0
External cephalic version successful	100†	6	89	0	7	87	*	0
External cephalic version failed	129	9	120	0	9	120	0	0
Total	22,606	2,895	19,704	7	3,885	18,691	20	10
<b>Births with medical risk factors<sup>b</sup></b>								
Pre-existing diabetes	983	140	843	0	296	687	0	0
Gestational diabetes	7,710†	658	7,049	*	1,042	6,665	*	0
Pre-existing hypertension	1,440†	273	1,168	0	356	1,083	*	*
Gestational hypertension	7,051	1,264	5,786	*	1,576	5,464	8	*
Eclampsia	130†	43	89	0	56	75	*	0
Previous preterm birth	3,550†	760	2,786	*	1,175	2,371	*	*
Other previous poor pregnancy outcome	4,630†	591	4,033	*	668	3,953	*	0
Gonorrhea	270†	34	233	0	38	226	*	*
Syphilis	300†	40	259	0	47	251	*	0
Chlamydia	1,970†	157	1,811	*	195	1,771	*	*
Hepatitis B	108	14	94	0	14	92	0	*
Hepatitis C	200†	34	170	0	39	162	*	*

**TABLE 1B-32 (continued)**  
**SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2021**

	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	24,254	2,785	21,458	11	3,411	20,737	77	29
Premature rupture of the membranes	3,992	756	3,233	*	1,067	2,907	14	*
Prolonged labor	5,161	417	4,736	8	502	4,635	9	15
Breech presentation	2,113	148	1,965	0	219	1,874	19	*
Chorioamnionitis	3,148	950	2,198	0	1,085	2,055	6	*
Meconium staining of the amniotic fluid	1,640†	123	1,512	0	148	1,482	*	*
Fetal intolerance	5,532	259	5,273	0	308	5,181	38	*
Maternal transfusion	7,335	834	6,500	*	888	6,422	21	*
Third or fourth degree perineal laceration	530†	112	415	0	150	374	*	*
Ruptured uterus	376	0	376	0	6	370	0	0
Unplanned Hysterectomy	40†	*	39	0	9	35	0	0
Admission to intensive care unit	42	10	32	0	21	21	0	0
Unplanned surgery following delivery	179	76	102	*	101	77	0	*
Total	227	42	185	0	57	170	0	0
<b>Abnormal conditions of the newborn<sup>b</sup></b>								
Total	3,998	1,599	2,395	4	1,988	1,994	11	5
Assisted ventilation immediately after delivery	3,137	1,287	1,846	*	1,574	1,550	9	*
Assisted ventilation for more than 6 hours	2,078	1,108	967	*	1,332	738	7	*
Surfactant replacement therapy	411	327	83	*	365	46	0	0
Suspected neonatal sepsis	1,680†	827	849	*	1,023	647	*	*
Seizure or serious neurologic dysfunction	31	9	22	0	10	21	0	0
Significant birth injury	88	6	81	*	11	77	0	0
Total	355	82	269	4	100	250	0	5
<b>Congenital anomalies of the newborn<sup>b</sup></b>								
Total	0†	*	0	0	*	0	0	0
Anencephalus	20	6	14	0	8	12	0	0
Spina bifida / Meningocele	72	14	58	0	20	52	0	0
Cyanotic congenital heart disease	10†	*	8	0	*	8	0	0
Congenital diaphragmatic hernia	28	14	14	0	15	13	0	0
Omphalocele / Gastroschisis	10†	*	9	0	*	8	0	*
Limb reduction defect	57	7	50	0	9	48	0	0
Cleft lip / palate	59	12	45	*	16	42	0	*
Down syndrome	45	17	28	0	15	30	0	0
Suspected chromosomal disorder	30†	*	21	0	*	21	0	0
Hypospadias	58	16	40	*	24	31	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, 2021**

	TOTAL	Mother's age group										Un- known
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+		
<b>TOTAL</b>	77,857	43	869	2,668	15,687	23,617	21,794	10,664	2,317	196	2	
<b>Mother's race/ethnicity</b>												
White non-Hispanic	33,851	10	147	659	5,173	10,189	11,003	5,452	1,106	110	*	
Hispanic or Latino	32,288	21	566	1,596	8,264	10,176	7,421	3,381	812	51	0	
Black or African American	4,800†	*	43	171	1,054	1,441	1,268	643	159	13	0	
American Indian or Alaska Native	3,910†	7	108	227	959	1,126	931	449	94	*	0	
Asian or Pacific Islander	3,020†	*	*	15	237	685	1,171	739	146	17	0	
<b>Payer for birth</b>												
AHCCCS	36,163	36	708	2,203	10,278	11,083	7,516	3,408	832	98	*	
IHS	760†	*	29	39	189	215	200	65	22	*	0	
Private insurance	33,650†	*	70	281	3,915	10,066	11,884	6,155	1,198	77	0	
Self-pay	4,330†	*	40	85	728	1,344	1,344	618	151	11	*	
Unknown	2,960†	0	22	60	577	909	850	418	114	9	0	
<b>Mother's education</b>												
8th Grade or Less	1,823	25	77	74	323	414	417	339	141	13	0	
Some High School	8,989	17	733	1,136	2,755	2,032	1,435	694	176	11	0	
High School / GED	21,400†	0	51	1,201	6,909	6,932	4,120	1,767	400	21	0	
Some College	17,080†	0	*	223	3,895	6,082	4,519	1,926	403	29	0	
Associate Degree	6,810†	0	*	20	885	2,352	2,264	1,043	226	13	0	
Bachelor's Degree	14,290†	0	0	0	800	4,434	5,748	2,764	511	31	0	
Postgraduate Education	7,020†	0	0	*	66	1,273	3,171	2,038	435	37	0	
Unknown	450†	*	*	13	54	98	120	93	25	41	*	
<b>Marital status</b>												
Married	41,710†	0	13	241	4,555	12,946	14,808	7,507	1,531	109	*	
Unmarried <sup>a</sup>	35,169	43	855	2,421	11,011	10,439	6,682	2,960	714	44	0	
Unknown	980†	0	*	6	121	232	304	197	72	43	*	
<b>Weight gain</b>												
Inadequate	17,332	15	254	667	3,498	5,361	4,643	2,328	504	62	0	
Adequate	23,029	11	229	664	4,303	6,902	6,755	3,338	769	58	0	
Excessive	36,608	16	366	1,295	7,716	11,081	10,167	4,887	1,012	67	*	
Unknown	890†	*	20	42	170	273	229	111	32	9	*	
<b>Smoking during pregnancy</b>												
Non-smoker	74,635	42	841	2,588	15,069	22,656	20,859	10,203	2,203	172	*	
Light smoker (less than 10 cigarettes per day)	1,470†	*	11	42	294	456	428	185	37	14	0	
Heavy smoker (10 or more cigarettes per day)	1,020†	0	*	17	154	320	303	164	47	7	0	
Unknown	740†	0	12	21	170	185	204	112	30	*	0	
<b>Length of gestation</b>												
<37 weeks	7,779	7	78	270	1,346	2,114	2,197	1,369	357	41	0	
37-41 weeks	69,838	36	789	2,391	14,302	21,419	19,527	9,267	1,952	153	*	
42+ weeks	160†	0	*	*	26	54	49	21	*	0	0	
Unknown	80†	0	*	*	13	30	21	7	*	0	0	
<b>Weight at birth</b>												
<1,000 grams	470†	*	*	25	76	111	148	85	17	*	0	
1,000-1,499	510†	0	8	23	91	138	147	82	17	*	0	
1,500-2,499	5,160†	*	62	198	948	1,427	1,410	856	226	30	0	
2,500-3,999	65,815	35	772	2,321	13,651	20,061	18,148	8,794	1,879	152	*	
4,000+ grams	5,840†	*	22	101	918	1,868	1,915	833	174	9	0	
Unknown	60†	0	*	0	*	12	26	14	*	0	0	

**TABLE 1B-33 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2021**

	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	1,940†	*	64	122	435	566	447	230	58	14	*			
1st trimester	55,860	16	402	1,584	10,440	17,177	16,456	8,003	1,669	112	*			
2nd trimester	12,841	14	234	602	3,125	3,779	3,093	1,567	386	41	0			
3rd trimester	4,741	6	138	259	1,177	1,375	1,131	510	128	17	0			
Unknown	2,470†	*	31	101	510	720	667	354	76	12	0			
<b>Prenatal visits</b>														
No visits	1,940†	*	64	122	435	566	447	230	58	14	*			
1-4 visits	3,702	7	85	220	934	1,074	862	405	95	20	0			
5-8 visits	13,191	12	220	612	3,071	3,927	3,326	1,609	374	39	*			
9-12 visits	34,549	15	323	1,050	6,718	10,568	10,131	4,739	940	65	0			
13+ visits	23,680†	*	168	630	4,388	7,206	6,819	3,584	829	55	0			
Unknown	790†	*	9	34	141	276	209	97	21	*	0			
<b>Newborn intensive care</b>														
Yes	6,190†	*	75	204	1,142	1,722	1,736	1,013	257	36	0			
No	71,668	39	794	2,464	14,545	21,895	20,058	9,651	2,060	160	*			
<b>Method of delivery</b>														
Vaginal	53,399	36	714	2,126	11,758	16,659	14,331	6,427	1,259	88	*			
C-Section	22,320†	*	103	434	3,458	6,314	6,895	4,012	1,001	98	*			
Forceps	300†	0	*	8	47	92	95	44	7	*	0			
Vacuum	1,840†	*	47	100	423	551	472	180	50	9	0			
Unknown	0†	0	0	0	*	*	*	*	0	0	0			
<b>Obstetric procedures<sup>b</sup></b>														
Total	39,990	20	532	1,633	9,150	12,284	10,316	4,879	1,105	70	1			
Induction of labor	23,935	6	288	908	5,223	7,067	6,211	3,377	799	55	*			
Augmentation of labor	22,715	18	357	977	5,477	7,098	5,757	2,458	547	25	*			
Cervical cerclage	170†	0	*	*	20	35	63	36	6	*	0			
Tocolysis	360†	*	*	16	75	112	96	36	17	*	0			
External cephalic version successful	100†	0	0	*	13	25	27	22	7	0	0			
External cephalic version failed	130†	0	*	*	24	39	37	22	*	0	0			
<b>Births with medical risk factors<sup>b</sup></b>														
Total	22,606	6	203	646	4,041	6,287	6,571	3,774	990	88	0			
Pre-existing diabetes	980†	0	*	13	107	250	331	200	72	*	0			
Gestational diabetes	7,710†	*	28	88	899	2,028	2,542	1,633	454	35	0			
Pre-existing hypertension	1,440†	0	*	13	189	320	435	366	100	17	0			
Gestational hypertension	7,050†	*	88	235	1,433	2,018	1,942	1,043	265	24	0			
Eclampsia	130†	0	6	*	31	41	21	26	*	0	0			
Previous preterm birth	3,550†	0	*	40	449	1,019	1,136	710	171	21	0			
Other previous poor pregnancy outcome	4,630†	0	10	73	712	1,281	1,483	830	222	15	0			
Gonorrhea	270†	*	16	32	77	76	41	19	*	0	0			
Syphilis	300†	0	9	18	81	74	76	31	8	*	0			
Chlamydia	1,970†	*	83	257	843	483	201	80	15	*	0			
Hepatitis B	110†	0	*	*	12	28	35	19	8	*	0			
Hepatitis C	200†	0	*	*	25	66	64	34	8	*	0			

**TABLE 1B-33 (continued)**  
**SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2021**

	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	24,254	15	290	905	5,056	7,204	6,733	3,230	745	76	0			
Premature rupture of the membranes	3,990†	*	71	180	922	1,186	1,017	498	108	7	0			
Precipitous labor	5,160†	*	37	126	818	1,486	1,697	816	163	16	0			
Prolonged labor	2,110†	*	29	94	501	675	517	231	61	*	0			
Breech presentation	3,150†	0	18	77	483	870	952	586	140	22	0			
Chorioamnionitis	1,640†	*	43	92	465	503	365	130	34	0	0			
Meconium staining of the amniotic fluid	5,530†	*	86	251	1,274	1,678	1,512	585	128	17	0			
Fetal intolerance	7,335	6	94	300	1,710	2,212	1,856	907	231	19	0			
Maternal transfusion	530†	0	9	18	102	144	152	76	23	*	0			
Third or fourth degree perineal laceration	380†	*	*	15	79	132	99	40	6	0	0			
Ruptured uterus	40†	0	0	*	*	13	13	7	*	0	0			
Unplanned Hysterectomy	40†	0	0	0	*	9	18	11	*	0	0			
Admission to intensive care unit	180†	0	*	6	29	49	55	28	11	0	0			
Unplanned surgery following delivery	230†	0	*	9	36	56	77	31	13	*	0			
<b>Abnormal conditions of the newborn<sup>b</sup></b>														
Total	4,000†	3	52	132	783	1,111	1,143	609	149	16	0			
Assisted ventilation immediately after delivery	3,140†	*	36	100	602	870	908	496	111	12	0			
Assisted ventilation for more than 6 hours	2,080†	*	24	66	383	591	604	319	83	6	0			
Surfactant replacement therapy	410†	*	*	22	81	105	121	67	9	*	0			
Suspected neonatal sepsis	1,680†	*	26	66	358	454	472	242	51	6	0			
Seizure or serious neurologic dysfunction	30†	0	*	*	6	*	10	*	*	0	0			
Significant birth injury	90†	0	*	*	14	29	21	14	*	0	0			
<b>Congenital anomalies of the newborn<sup>b</sup></b>														
Total	360†	1	8	16	68	95	76	67	23	1	0			
Anencephalus	0†	0	0	0	0	0	*	*	0	0	0			
Spina bifida / Meningocele	20†	0	0	*	*	6	6	*	0	0	0			
Cyanotic congenital heart disease	70†	0	*	*	12	16	21	15	*	0	0			
Congenital diaphragmatic hernia	10†	0	0	0	*	*	0	*	0	0	0			
Omphalocele / Gastroschisis	30†	0	*	*	9	6	7	0	0	0	0			
Limb reduction defect	10†	0	0	*	*	*	*	*	*	0	0			
Cleft lip / palate	60†	*	*	*	13	17	14	7	*	0	0			
Down syndrome	60†	0	*	*	*	10	13	23	8	0	0			
Suspected chromosomal disorder	50†	0	*	*	7	11	*	13	6	0	0			
Hypospadias	30†	0	0	0	7	9	*	*	*	0	0			
<b>Unknown congenital anomalies</b>														
Total	60†	0	*	*	14	19	11	9	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.

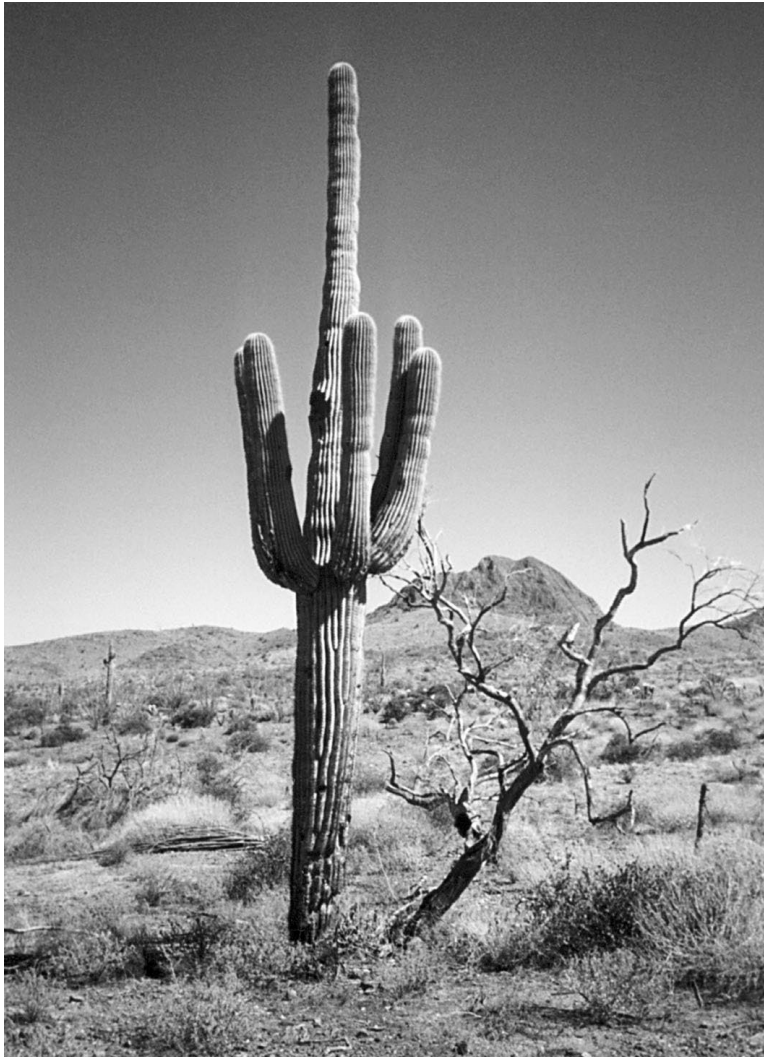
**TABLE 1B-34  
BIRTHS WITH CONGENITAL ANOMALIES MENTIONED ON BIRTH CERTIFICATE BY MOTHER'S RACE/ETHNICITY AND  
CHILD'S GENDER, ARIZONA, 2021**

	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>	355	205	150	154	89	65	152	85	67	19	14	5	22	11	11	8	6	2
<b>Anencephalus</b>	0†	*	*	0†	*	0	0†	0	*	0†	0	*	0	0	0	0†	0	*
<b>Spina bifida / Meningocele</b>	20	10	10	10†	*	*	10†	6	*	0†	*	0	0†	0	*	0	0	0
<b>Cyanotic congenital heart disease</b>	72	45	27	27	16	11	30	19	11	6	6	0	10†	*	*	0†	*	*
<b>Congenital diaphragmatic hernia</b>	10†	*	*	0†	*	*	10†	*	*	0†	*	0	0	0	0	0†	*	0
<b>Omphalocele / Gastroschisis</b>	28	14	14	10†	6	*	10†	*	9	0†	*	*	0†	*	0	0	0	0
<b>Limb reduction defect</b>	10†	*	8	10†	*	*	0†	*	*	0†	*	0	0†	*	*	0	0	0
<b>Cleft lip / palate</b>	57	32	25	25	13	12	23	13	10	0†	*	0	10†	*	*	0†	*	0
<b>Down syndrome</b>	59	33	26	24	13	11	31	16	15	0†	*	0	0†	*	0	0†	*	0
<b>Suspected chromosomal disorder</b>	45	21	24	20†	*	13	21	12	9	0†	*	*	0†	*	0	0†	*	*
<b>Hypospadias</b>	26	26	0	13	13	0	11	11	0	0†	*	0	0	0	0	0†	*	0
<b>Unknown congenital anomalies</b>	58	33	25	33	21	12	15	7	8	0†	*	*	10†	*	*	0†	*	0
<b>Ratio per 100 births<sup>a</sup></b>	<b>0.5</b>	<b>0.5</b>	<b>0.4</b>	<b>0.5</b>	<b>0.5</b>	<b>0.4</b>	<b>0.5</b>	<b>0.5</b>	<b>0.4</b>	<b>0.4</b>	<b>0.6</b>	<b>0.2</b>	<b>0.6</b>	<b>0.6</b>	<b>0.3</b>	<b>0.4</b>	<b>0.1</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.**

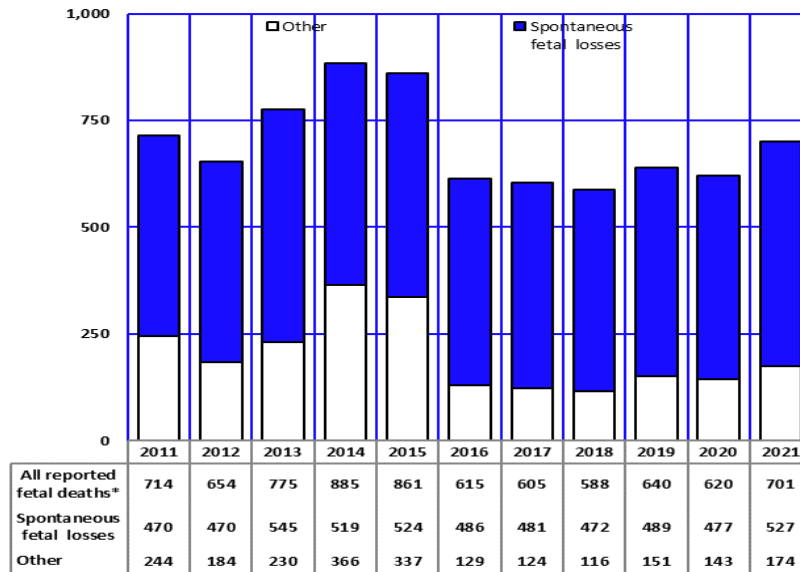
### **FETAL, PERINATAL, AND MATERNAL DEATHS**

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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, 2011-2021



The number of all reported fetal deaths in Arizona (including late term abortions) in 2021 was 701, a 13.1 percent increase from 2020 (**Figure 1C-1, Table 1C-3**). The annual number of reportable spontaneous fetal losses increased 10.5 percent from 477 in 2020 to 527 in 2021. (**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, 2011-2021



The fetal mortality rate increased slightly from a rate of 6.2 deaths at 20 or more weeks of gestation per 1,000 live births in 2020 to a rate of 6.7 deaths in 2021.

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 but increased to 6.1 in 2021 (**Figure 1C-2, Table 1C-3**).

Early infant deaths accounted for 238 or 49.6 percent of the 480 perinatal deaths in 2021 (**Figure 1C-2, Table 1C-3**).

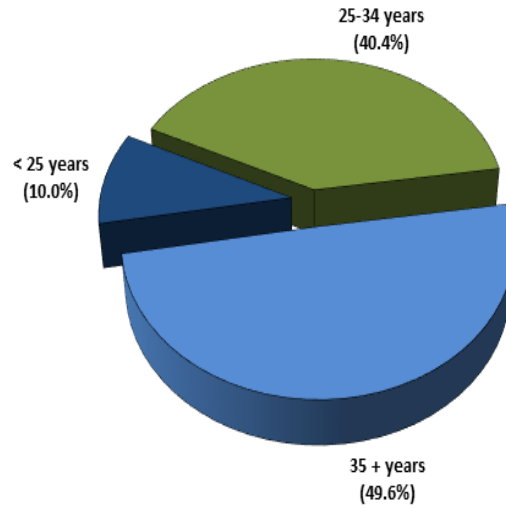
Notes: <sup>a</sup>Rate is the number of events per 1,000 live births and fetal deaths. <sup>b</sup> Infant deaths of less than 7 days and fetal deaths with gestation of 28 weeks or more, per 1,000 live births and fetal deaths.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

**Figure 1C-3**  
Percent of Death from Maternal Causes by Mother's Age Group, Arizona, 2011-2021

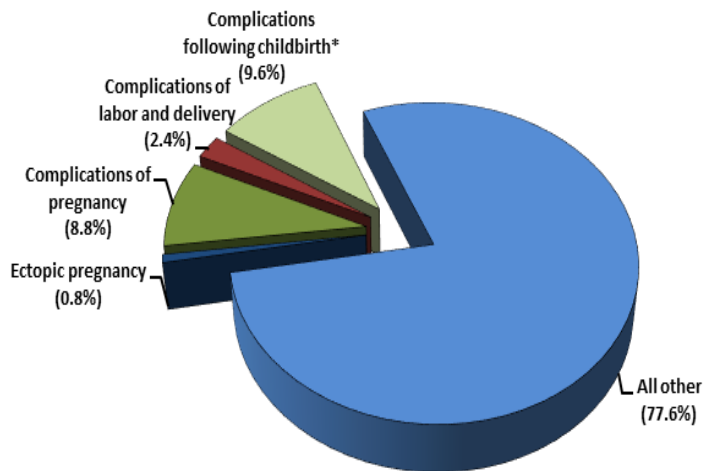
In 2021, 38 women giving birth were reported to have died from maternal causes (**Table 1C-1**). This represents a 2.6 percent decrease from the number of maternal deaths recorded in 2020. The number of maternal deaths does not include all deaths occurring to pregnant women, but only those deaths assigned to causes related to or aggravated by pregnancy or pregnancy management.

Based on the total number of 250 maternal deaths from 2011 to 2021, 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, 2011-2021

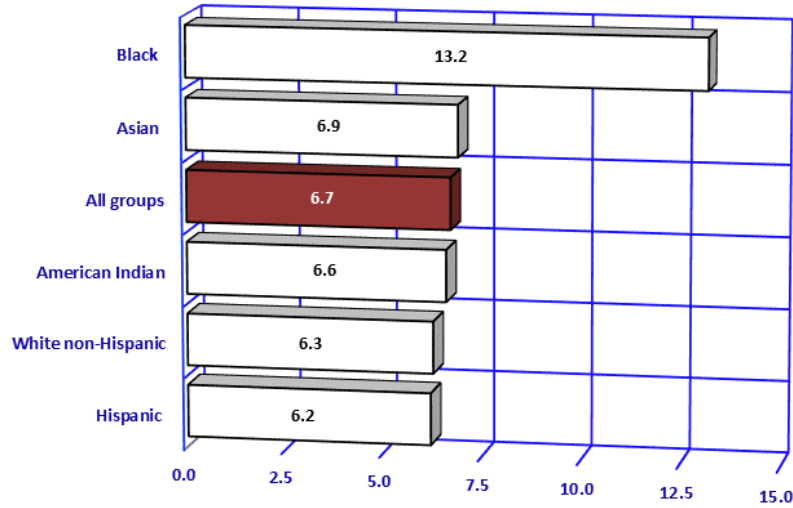
In the eleven-year period from 2011 to 2021, the major causes of maternal deaths in the state have included complications following childbirth (i.e. complications of the puerperium), complications mainly related to pregnancy, complications occurring in the course of labor and delivery, and ectopic pregnancy. All other possible causes of maternal death accounted for 77.6 percent of the maternal deaths from 2011 to 2021 (**Figure 1C-4**, **Table 1C-2**).



Notes: <sup>a</sup> Based on the total number of maternal deaths from 2011 to 2021; \* Complications of the puerperium.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

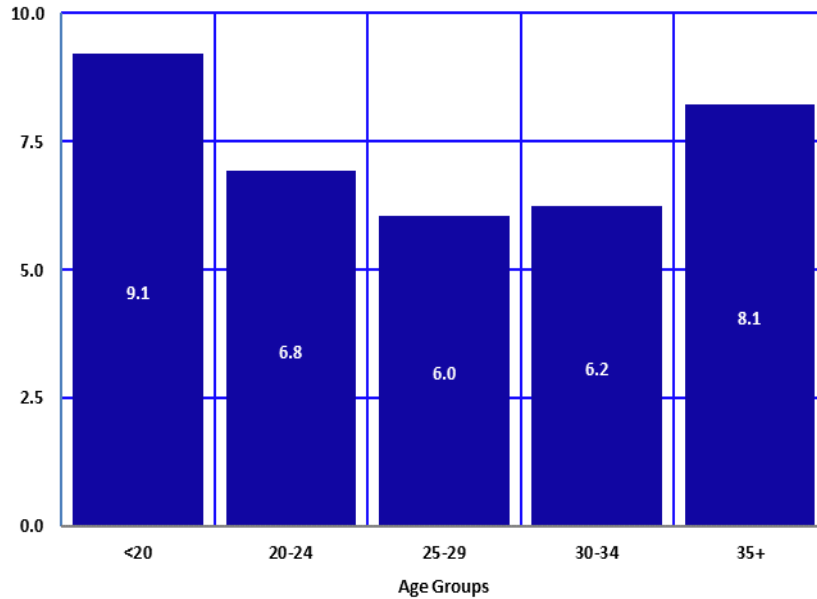
**Figure 1C-5**  
Fetal Mortality Rates by Race/Ethnicity, Arizona, 2021



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 13.2 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 Asian women (6.9) while the rates of American Indian women (6.6), White non-Hispanic (6.3), and Hispanic or Latino (6.2), were below the state average.

Note: <sup>a</sup> 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, 2021



Fetal mortality rates vary by maternal age (**Figure 1C-6**). In 2021 fetal mortality rates were lowest for women aged 25-29 years and highest for women aged <20 years. The fetal mortality rate for mothers aged 35 and older increased slightly from 8.0 in 2020 to 8.1 in 2021.

Note: <sup>a</sup> 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, 2011-2021**

Year	Total maternal deaths <sup>b</sup>	Under <15	15-19	20-24	25-29	30-34	35-39	40-44	45+
2011	10†	0	0	*	*	0	*	*	0
2012	20†	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
2021	40†	0	0	*	9	10	12	*	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, 2011-2021**

Cause of death (ICD-9/ICD-10 codes)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>PREGNANCY WITH ABORTIVE OUTCOME (O00-O07)</b>	0	0	*	*	0	*	0	0	0	0	*
Ectopic pregnancy (O00)	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	*	*
<b>COMPLICATIONS OF THE PUERPERIUM<sup>a</sup> (O85-O92)</b>	*	7	0	0	*	*	6	*	*	*	0
<b>ALL OTHER</b>	*	8	*	7	*	20	11	30	40	35	33
<b>TOTAL</b>	10†	20†	10†	10†	10†	30†	23	30†	40†	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, 2011-2021**

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<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.	714	654	775	885	861	615	605	588	640	620	701
<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).	619	588	554	653	665	613	602	583	638	617	698
<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.	470	470	545	519	524	486	481	472	489	477	527
<b>RATE OF REPORTABLE SPONTANEOUS FETAL LOSSES<sup>a</sup></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>6.7</b>
<b>NUMBER OF PERINATAL DEATHS</b>	465	487	483	551	510	475	472	501	453	434	480
Spontaneous fetal losses of 28 or more weeks of gestation	216	221	262	265	275	236	238	247	247	223	242
Infant deaths of less than 7 days	249	266	221	286	235	239	234	254	206	211	238
<b>PERINATAL DEATH RATE<sup>b</sup></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>	<b>6.1</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, 2011-2021**

Characteristic	Year										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Total reportable spontaneous fetal losses</b>	470	470	545	519	524	486	481	472	489	477	527
<b>Gender</b>											
Male	218	239	260	293	296	248	226	222	271	236	254
Female	245	222	256	222	225	227	234	246	215	219	223
Unknown	7	9	29	*	*	11	21	*	*	22	50
<b>Mother's race/ethnicity</b>											
White non-Hispanic	192	195	247	205	200	204	207	205	187	186	214
Hispanic or Latino	181	181	205	182	227	195	171	174	196	177	202
Black or African American	27	36	40	48	50	47	47	42	58	50	64
American Indian or Alaska Native	43	43	40	47	40	36	40	36	37	41	26
Asian or Pacific Islander	27	15	13	17	7	*	16	15	11	23	21
Refused/Unknown	0	0	0	20	0	0	0	0	0	0	0
<b>Mother's age group</b>											
<15	0	*	0	0	0	0	0	0	0	*	*
15-17	14	16	18	25	18	10	7	8	7	10	*
18-19	35	37	34	27	30	27	25	16	26	16	27
20-24	117	130	115	120	101	94	104	85	89	107	108
25-29	111	100	159	131	135	123	118	138	132	123	142
30-34	114	98	123	117	122	121	125	125	133	116	135
35-39	56	58	79	67	83	71	75	75	76	86	81
40-44	22	27	13	30	27	36	18	22	24	14	26
45+	*	*	*	0	*	*	*	*	0	*	*
Unknown	0	*	*	*	*	*	6	0	*	0	*
<b>Gestational age<sup>b</sup></b>											
20-27 weeks	255	248	282	250	248	239	241	223	242	254	283
28+ weeks	215	221	262	265	275	236	238	247	247	223	242
Unknown	0	*	*	*	*	11	*	*	0	0	*
<b>Weight in grams</b>											
<350 grams	96	119	108	99	117	97	99	93	120	103	113
350-499	80	68	73	74	75	77	75	60	61	73	90
500-2,499	193	179	229	236	216	217	199	216	202	210	240
2,500-3,999	80	87	103	85	85	77	81	91	95	71	69
4,000+	11	14	6	9	9	6	14	8	7	12	11
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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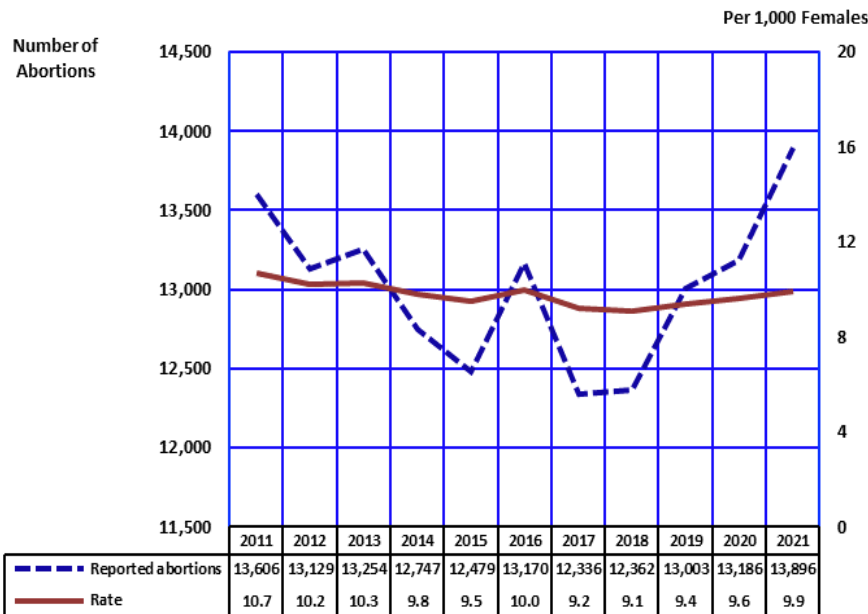
The Arizona Department of Health Services was authorized by Arizona Revised Statute §36-2161 to require healthcare facilities, providers, and physicians to submit abortion procedure reports to the department in order to develop statewide annual abortion statistics and demographic characteristics of women 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 2021, 1.9 percent (263) of abortion records had race and ethnicity identified as unknown, and 2.3 percent (317) 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, 2011-2021**



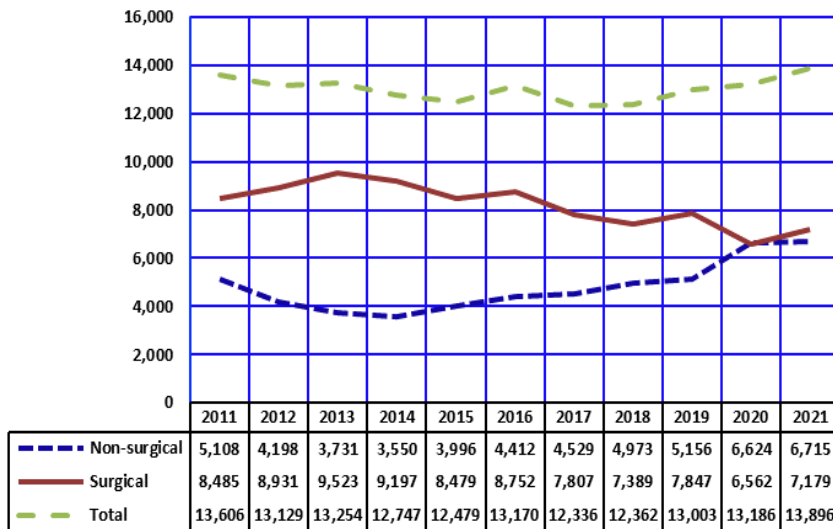
During calendar year 2021, the Arizona Department of Health Services received a total of 13,896 reports of abortions obtained by Arizona residents, 710 more than the 13,186 reported in 2020 (**Figure 1-D1, Table 1D-1**).

There were 13,838 abortions in non-hospital clinics (**Table 1D-1**). Hospitals accounted for 58 abortion procedures, with no procedures being performed outside of clinics and hospitals.

Ninety 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, 2011-2021**

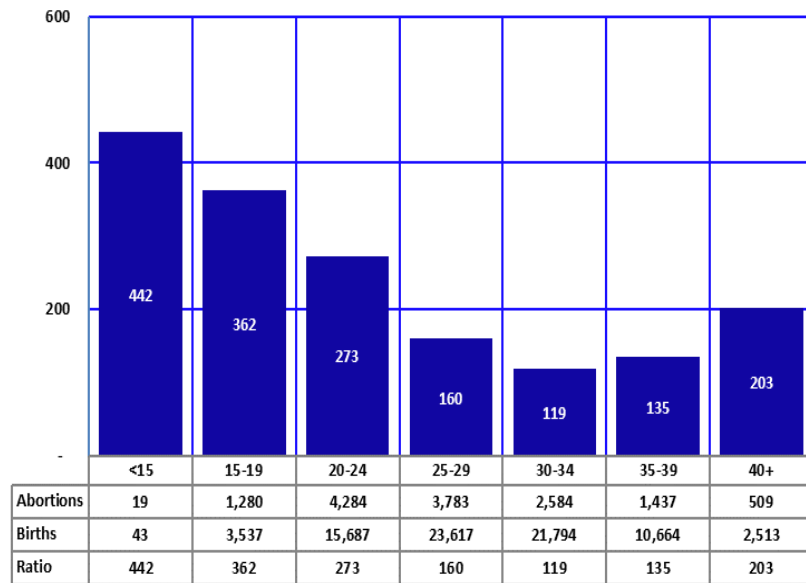


The rate of induced terminations of pregnancy per 1,000 female residents aged 15-44 increased from 9.6 in 2020 to 9.9 in 2021 (**Figure 1D-1**).

Trends in the percent of abortions conducted through surgical and non-surgical from 2011 to 2021 indicate shifting practices in methods used to complete abortions. In 2011, 62.4 percent of all abortion procedures were surgical procedures. Since then, the proportion of abortions conducted through surgical means has decreased, with 51.7 percent of all abortion procedures conducted in 2021 being surgical procedures.

## 1D. ABORTIONS

**Figure 1D-3**  
**Abortion Ratios<sup>a</sup> by Age Group, Arizona Residents, 2021**

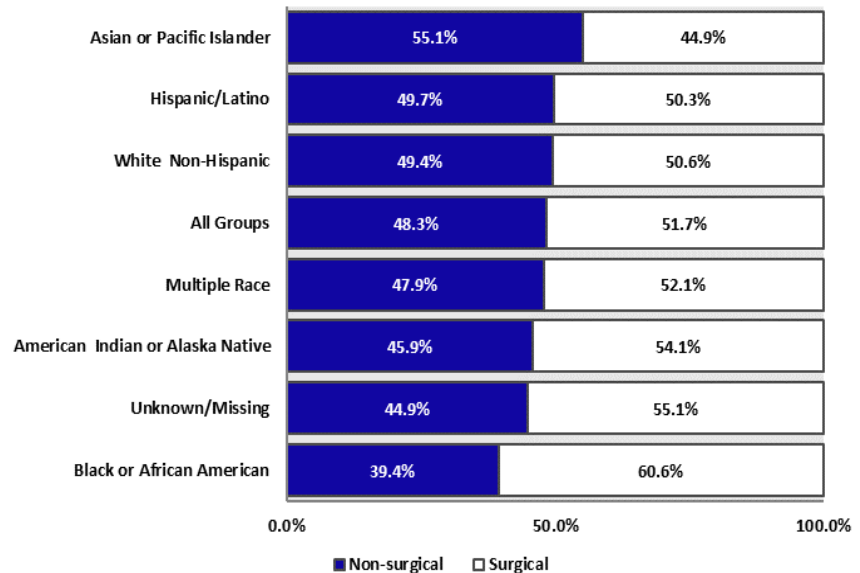


Abortion ratios (the number of abortions per 1,000 live births in each age group) vary by age at reported termination of pregnancy. Ratios were higher at the lower end of the age distribution of the childbearing period, i.e., among women under age 15, 15-19, and 20-24 years of age (**Figure 1D-3**).

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, 2021**



In 2021, non-surgical (also called “medical”) abortions made up 48.3 percent of all procedures reported in Arizona. The proportion of non-surgical abortion was the highest among Asian or Pacific Islander, 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, 2011-2021**

Characteristics	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>ABORTIONS PERFORMED IN ARIZONA</b>	14,401	13,340	13,401	12,900	12,655	13,332	12,533	12,438	13,097	13,273	13,998
<b>RESIDENT ABORTIONS</b>	13,606	13,129	13,254	12,747	12,479	13,170	12,336	12,362	13,003	13,186	13,896
<b>RACE/ETHNICITY</b>											
White non-Hispanic	2,385	1,904	2,515	5,562	5,378	5,321	4,762	4,807	4,798	4,684	4,645
Hispanic or Latino	4,274	3,393	4,189	4,499	4,350	4,823	4,639	4,679	5,093	5,349	6,080
Black or African American	145	116	189	981	1,074	1,253	1,196	1,229	1,372	1,594	1,662
American Indian	48	38	61	291	331	340	348	315	344	372	399
Asian or other Pacific Islander	47	75	110	534	532	608	598	552	612	550	530
Multiple race <sup>a</sup>	4,442	2,985	4,257	361	175	244	216	259	290	323	317
Refused/Unknown	2,265	4,618	1,933	519	639	581	577	521	494	314	263
<b>AGE</b>											
19 years and under	1,785	1,539	1,441	1,249	1,189	1,297	1,179	1,146	1,169	1,218	1,299
20-29 years	7,814	7,602	7,676	7,520	7,265	7,680	7,245	7,212	7,520	7,644	8,067
30 years and over	4,007	3,987	4,136	3,978	4,021	4,186	3,912	4,004	4,314	4,324	4,530
Not stated	NA	*	*	0	*	7	0	0	0	0	0
<b>YEARS OF EDUCATION</b>											
Elementary/secondary (1-12)	4,757	3,615	2,400	1,372	2,561	3,234	3,228	3,457	3,971	3,820	4,659
College (1-4 or 5+)	2,252	2,518	2,522	2,706	3,203	3,801	3,365	2,966	3,355	3,045	3,864
None, not stated, or unknown	6,597	6,996	8,332	8,064	6,715	6,135	5,743	5,939	5,677	6,321	5,373
<b>WEEKS OF GESTATION</b>											
12 weeks or under	12,156	11,677	11,767	11,232	11,062	11,762	10,917	10,924	11,510	11,708	12,066
13 weeks or over	1,427	1,432	1,487	1,507	1,411	1,396	1,419	1,438	1,493	1,478	1,830
Not stated or unknown	23	20	0	8	6	12	0	0	0	0	0
<b>FACILITY</b>											
Clinic	14,358	13,072	13,023	12,671	12,065	13,139	12,301	12,308	12,957	13,140	13,838
Hospital	42	54	152	70	24	27	31	51	41	41	58
Other	0	*	79	6	390	*	*	*	*	*	0

**TABLE 1D-1 (continued)  
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 2011-2021**

Characteristics	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>PREVIOUS LIVE BIRTHS</b>											
None	5,820	5,829	5,810	5,201	5,267	5,586	5,326	5,430	5,656	5,705	6,159
One or more	7,772	7,280	7,387	7,337	7,187	7,542	6,972	6,856	7,212	7,365	7,596
<b>PREVIOUS ABORTIONS</b>											
None	8,382	8,445	8,450	7,872	7,843	8,177	7,900	7,893	8,406	8,503	9,148
One or more	5,183	4,616	4,672	4,616	4,549	4,913	4,365	4,346	4,424	4,533	4,553
<b>PREVIOUS SPONTANEOUS TERMINATIONS OF PREGNANCY</b>											
None	11,257	10,941	10,825	10,241	10,146	10,462	9,930	9,932	10,460	10,532	10,976
One or more	2,301	2,108	2,283	2,213	2,220	2,613	2,307	2,302	2,324	2,456	2,613
<b>NONSURGICAL ABORTIONS</b>											
	5,108	4,198	3,731	3,550	3,996	4,412	4,529	4,973	5,156	6,624	6,715
<b>ABORTION RATIO<sup>b</sup></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>178.5</b>
<b>ABORTION RATE<sup>c</sup></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>	<b>9.9</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, 2011-2021**

Race and Ethnicity	Year										
	2011 <sup>e</sup>	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>Percent of Abortions<sup>b</sup></b>											
White non-Hispanic	17.5	14.5	19.0	43.6	43.1	40.4	38.6	38.9	36.9	35.5	33.4
Hispanic or Latino	31.4	25.8	31.6	35.3	34.9	36.6	37.6	37.8	39.2	40.6	43.8
Black or African American	1.1	0.9	1.4	7.7	8.6	9.5	9.7	9.9	10.6	12.1	12.0
American Indian or Alaska Native	0.4	0.3	0.5	2.3	2.7	2.6	2.8	2.5	2.6	2.8	2.9
Asian or Pacific Islander	0.3	0.6	0.8	4.2	4.3	4.6	4.8	4.5	4.7	4.2	3.8
Multiple races	32.6	22.7	32.1	2.8	1.4	1.9	1.8	2.1	2.2	2.5	2.3
Refused/Unknown	16.6	35.2	14.6	4.1	5.1	4.4	4.7	4.2	3.8	2.4	1.9
<b>Abortion Rates<sup>c</sup></b>											
White non-Hispanic	3.7	2.9	3.8	8.6	8.3	8.3	7.4	7.5	7.4	7.3	7.1
Hispanic or Latino	9.9	7.7	9.3	10.6	9.1	9.9	9.3	9.2	9.7	10.2	11.4
Black or African American	2.5	2.0	3.2	12.8	16.3	18.4	17.0	16.8	18.0	20.2	20.3
American Indian or Alaska Native	0.6	0.6	0.9	3.4	5.1	5.2	5.2	4.7	5.1	5.7	6.0
Asian or Pacific Islander	0.9	1.6	2.3	8.5	9.2	10.1	9.9	8.8	9.1	8.1	7.7
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	62	49	66	139	141	141	133	138	141	142	137
Hispanic or Latino	132	102	127	133	127	142	140	142	156	168	188
Black or African American	33	25	40	217	246	286	260	264	282	334	347
American Indian or Alaska Native	8	7	11	57	65	68	72	67	77	91	102
Asian or Pacific Islander	13	21	32	169	164	181	180	169	194	185	176
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, 2021**

Age	Gestational Age					
	≤13 weeks		14 to 20 weeks		≥21 or more weeks	
	Count	Percent	Count	Percent	Count	Percent
<15 yrs	14	73.7	*	**	*	**
15-19 yrs	1,115	87.1	140	10.9	25	2.0
20-24 yrs	3,880	90.6	354	8.3	50	1.2
25-29 yrs	3,442	91.0	280	7.4	61	1.6
30-34 yrs	2,300	89.0	237	9.2	47	1.8
35-39 yrs	1,265	88.0	140	9.7	32	2.2
≥40 yrs	450	88.4	48	9.4	11	2.2
<b>Totals</b>	<b>12,466</b>	<b>89.7</b>	<b>1,200<sup>†</sup></b>	<b>8.7</b>	<b>230<sup>†</sup></b>	<b>1.6</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; <sup>†</sup> Sum rounded to nearest tens unit due to addend less than 6.

**TABLE 1D-4  
ABORTIONS BY WEEK OF GESTATION AND RACE/ETHNICITY, ARIZONA, 2021**

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	Multiple race	Refused / Unknown race		
<b>Total</b>	13,896	4,645	6,080	1,662	400†	530†	320†	260†		
<b>6 weeks or less</b>	3,433	1,226	1,436	376	69	173	83	70		
<b>7</b>	2,681	916	1,181	311	51	112	58	52		
<b>8</b>	2,084	693	898	287	63	72	43	28		
<b>9</b>	1,679	533	801	186	56	45	33	25		
<b>10</b>	1,070	325	487	141	36	32	26	23		
<b>11</b>	708	236	322	83	22	15	15	15		
<b>12</b>	411	122	197	55	11	11	8	7		
<b>13</b>	400	122	176	52	19	18	7	6		
<b>14</b>	288	94	117	37	16	8	10	6		
<b>15</b>	318	94	140	36	20	8	9	11		
<b>16</b>	180†	60	71	21	6	*	9	*		
<b>17</b>	120†	37	51	14	*	*	7	0		
<b>18</b>	100†	35	42	17	*	*	*	*		
<b>19</b>	120†	43	38	20	8	7	*	0		
<b>20</b>	80†	35	32	6	*	*	0	*		
<b>21+</b>	227	74	91	20	13	14	6	9		

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