

# **CHAPTER 1**

## **REPRODUCTIVE AND PERINATAL HEALTH, ARIZONA, 2012-2022**

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





## 1A.

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

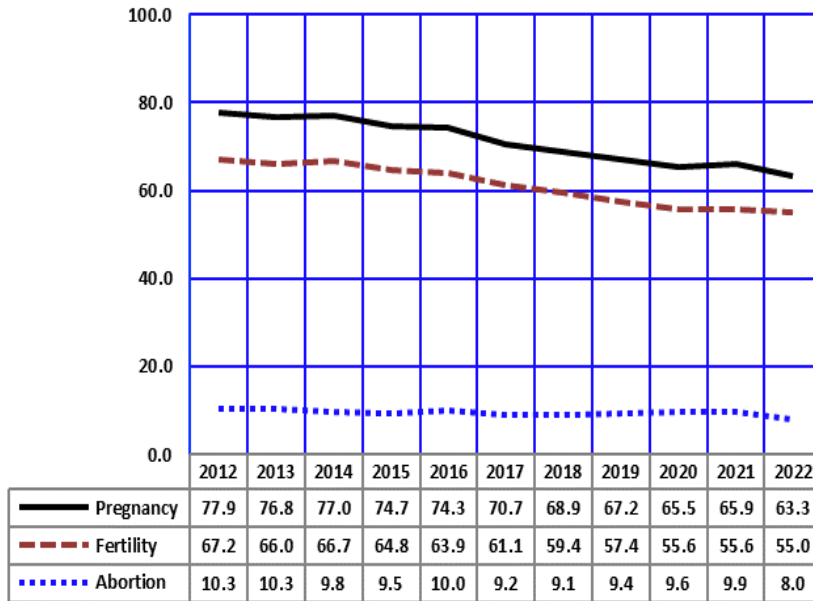
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The expression “reproductive and perinatal health” refers to a variety of health and sociodemographic characteristics of women who became pregnant, factors related to the course of their pregnancies, and the status of pregnancy outcomes. In this report,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

There were 90,256 pregnancies in 2022 compared to 92,280 pregnancies in Arizona in 2021, 90,444 in 2020, 98,060 in 2016, and 99,324 in 2012. The number of resident live births increased by 0.6 percent, from 77,857 in 2021 to 78,355 (**Table 1A-1**). The number of reported abortions decreased by 17.9 percent, from 13,896 in 2021 to 11,407 in 2022. The number of reportable spontaneous fetal losses decreased 6.3 percent, from 527 in 2021 to 494 in 2022.

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, 2012-2022**



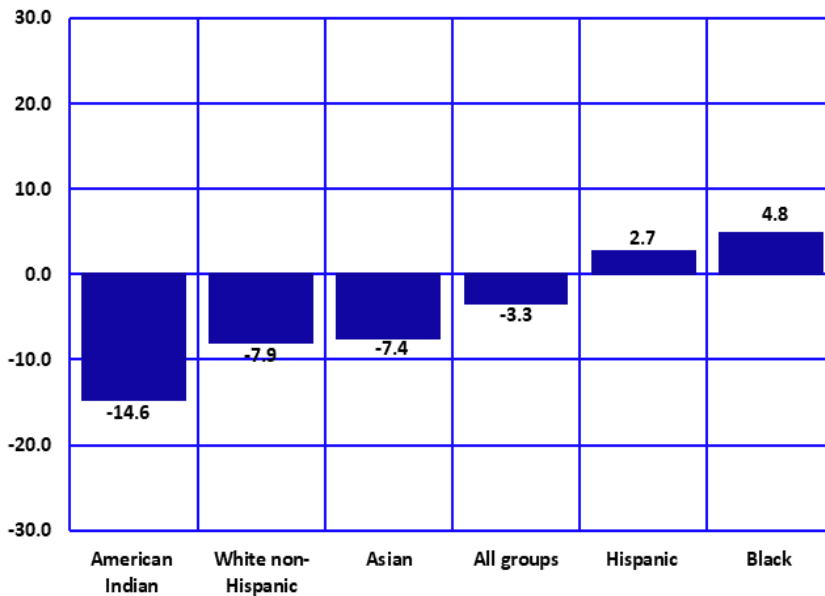
A rate is a measure of the frequency of some event (such as pregnancy, or live birth) in relation to a unit of population during a specified time period such as a year; events in the numerator of the year occur to individuals in the denominator. The pregnancy rate decreased from 65.9 pregnancies per 1,000 females of childbearing age in 2021 to 63.3 pregnancies per 1,000 females of childbearing age in 2022 (**Figure 1A-1, Table 1A-1**).

The fertility rate (the number of births per 1,000 women of childbearing age) also decreased from 55.6 in 2020 and 2021 to 55.0 in 2022. In 2022, the fertility rate was 18.2 percent lower than the high rate recorded in 2012.

The abortion rate (the number of abortions per 1,000 women of childbearing age) decreased 19.2 percent, from 9.9 per 1,000 women of childbearing age in 2021 to 8.0 in 2022.

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

**Figure 1A-2**  
**Percent Change from 2018 to 2022 in the Number of Pregnancies by Woman's Race/Ethnicity, Arizona**



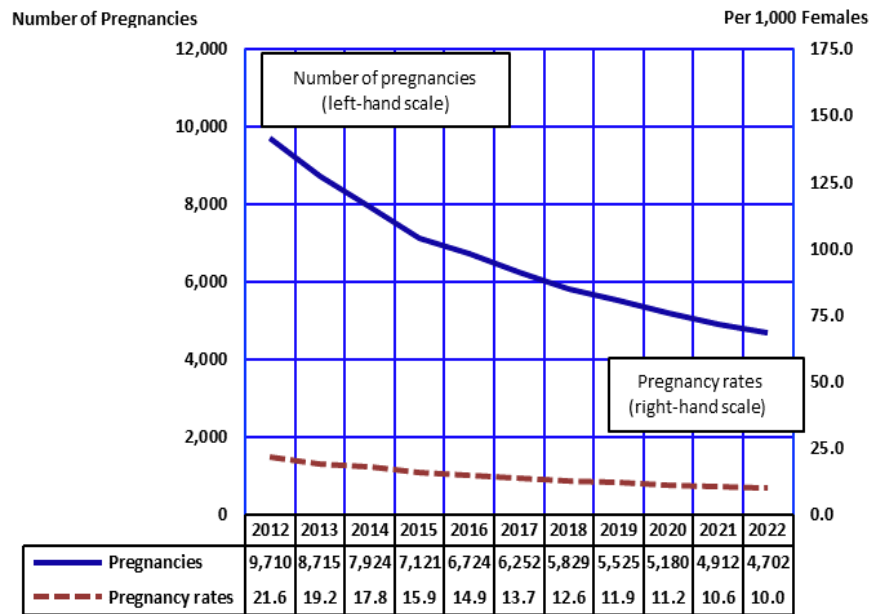
Overall, pregnancies in Arizona decreased 3.3 percent from 2018 to 2022. The changes in number of pregnancies varied by race/ethnicity. Between 2018 and 2022, while American Indian females (14.6 percent), Asian (7.4), and White non-Hispanic (7.9 percent), experienced a decrease in number of pregnancies, Black females (4.8 percent) and Hispanic (2.7) 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 51.6 percent from 9,710 in 2012 to 4,702 in 2022 (Figure 1A-3). The teen pregnancy rate declined even more, by 53.7 percent, from 21.6 pregnancies per 1,000 females 10-19 years in 2012 to 10.0 per 1,000 females in 2022. The number of teenage pregnancies and the teen pregnancy rate of 2022 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, 2012-2022

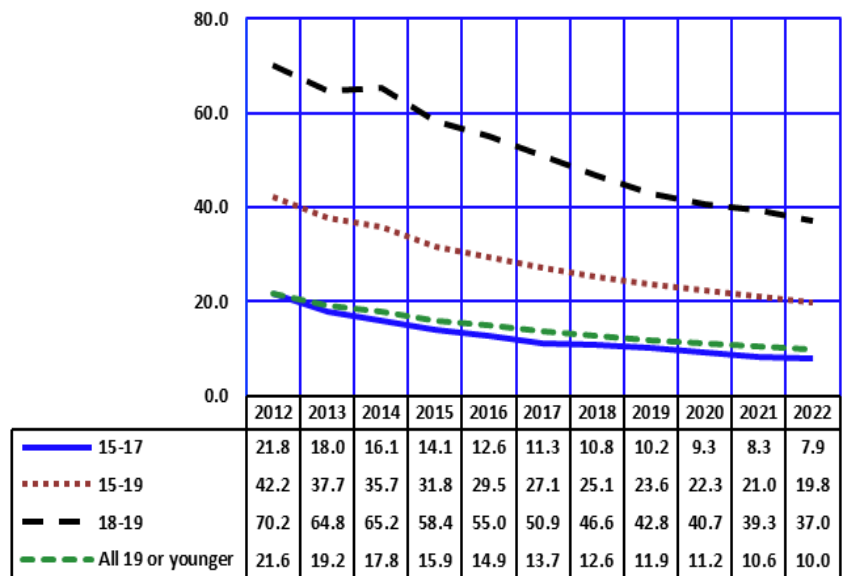


Note: <sup>a</sup> Pregnancy rate is the number of pregnancies per 1,000 females in specified age group.

The pregnancy rate for Arizona teenagers 15-19 years old in 2022 was 19.8 pregnancies per 1,000 females (Figure 1A-4, Table 5A-2), 5.7 percent lower than in 2021 and 53.1 percent lower than in 2012. The pregnancy rate for younger teenagers 15-17 years old declined by 63.8 percent (Table 1A-3) from 21.8/1,000 in 2012 to 7.9 /1,000 in 2022. The pregnancy rate for older teenagers 18-19 years old declined by 47.2 percent from 70.2/1,000 in 2012 to 37.1/1,000 in 2022 (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.

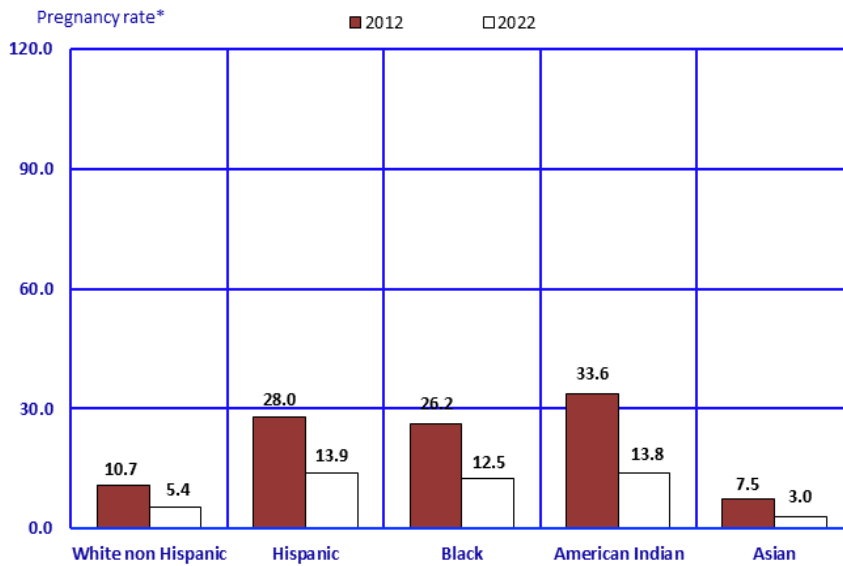
**Figure 1A-4**  
Pregnancy Rates<sup>a</sup> by Age Group and Year among Females 19 or Younger, Arizona, 2012-2022



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, 2012 and 2022**



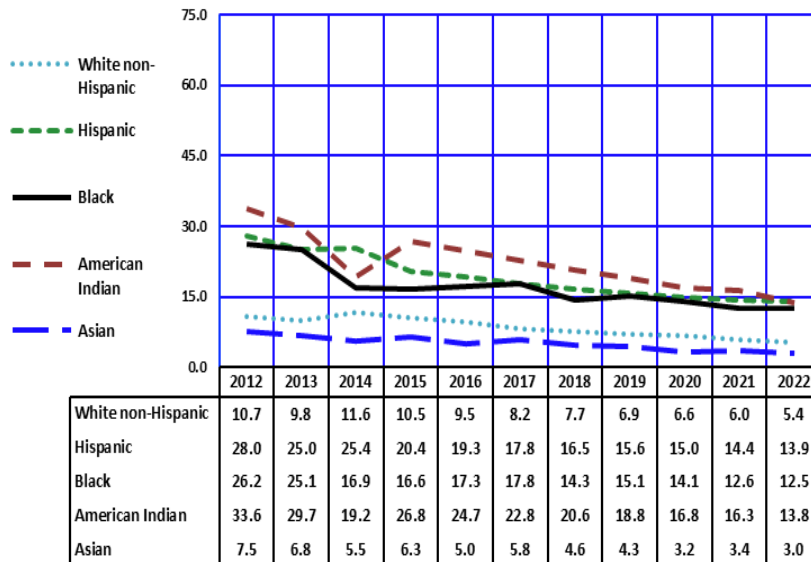
Teen pregnancy rates differ by race/ethnicity.

Between 2012 and 2022, 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 60.0 percent drop from 2012 to 2022. The Hispanic teenage pregnancy rate decreased greatly also, by 50.4 percent from 28.0 in 2012 to 13.9 in 2022.

The changes in annual teen pregnancy rates from 2012 to 2022 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, 2012-2022**



The teen pregnancy rates for all racial/ethnic groups were lower in 2022 than in 2012 (**Figure 1A-6**). Compared to 2012, the teen pregnancy rate declined substantially, by more than half when all racial/ethnic groups were combined (**Table 1A-5**).

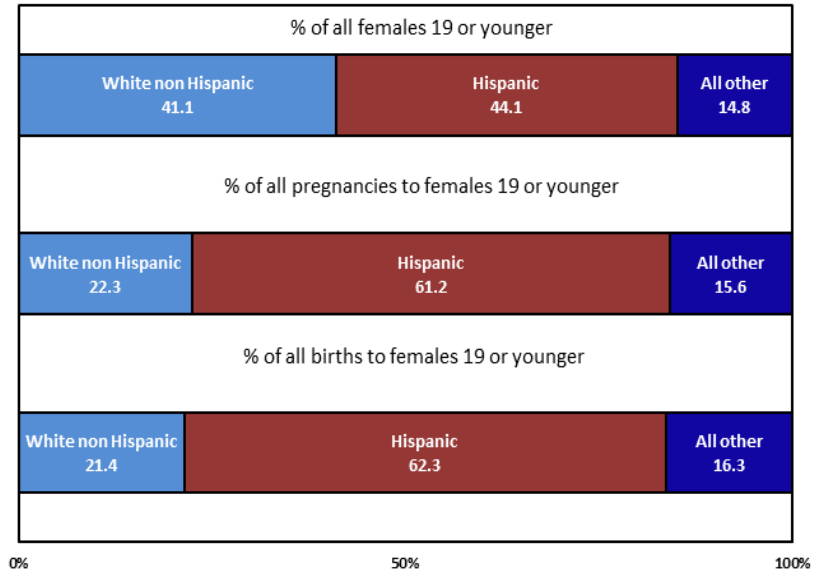
From 2021 to 2022, teenage pregnancy rates decreased for all race/ethnic groups. The decline was greater among American Indian females (15.3 percent), Asian (11.8 percent), White non-Hispanic (10.0 percent), and Hispanic (3.5 percent).

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, 2022**

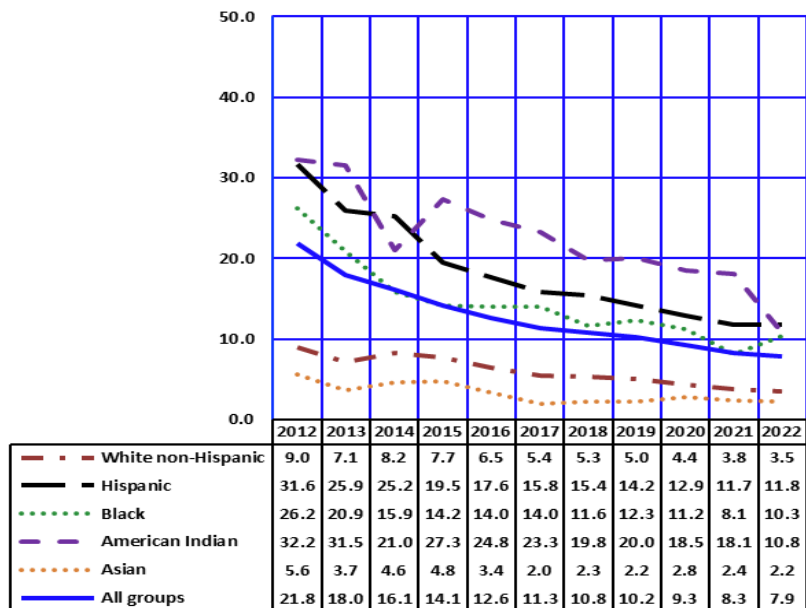
In 2022, Hispanic females accounted for approximately 44.1 percent of all females 10-19 years old in Arizona. As in the past, they accounted for a large percentage of teen pregnancies (61.2 percent) and live births (62.3 percent; **Figure 1A-7**). In contrast, White non-Hispanic females made up 41.1 percent of all females 10-19 years old in Arizona, but had a lower proportional contribution to teen pregnancies (22.3 percent) and live births (21.4 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: 2012-2022**

The 2022 pregnancy rate among females 15-17 was the highest in Hispanic females at 11.8 pregnancies per 1,000 females in the specified age group. The pregnancy rate among females 15-17 years in 2022 were lower than in 2021 for White non-Hispanic, American Indian, and Asian females. This similarly follows a trend of a significant decline seen since 2012 (**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, 2012-2022**

Race/ethnicity Pregnancy outcome	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2022 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	40,769	40,982	45,864	43,758	43,287	40,654	39,921	39,103	37,971	38,710	36,758	<b>55.6</b>
Births	38,670	38,220	40,097	38,180	37,762	35,685	34,909	34,118	33,101	33,851	32,792	<b>49.6</b>
Abortions	1,904	2,515	5,562	5,378	5,321	4,762	4,807	4,798	4,684	4,645	3,761	<b>5.7</b>
Fetal deaths	195	247	205	200	204	207	205	187	186	214	205	<b>0.3</b>
<b>HISPANIC OR LATINO, total:</b>	36,720	37,469	38,396	38,841	38,892	38,001	37,848	37,864	37,385	38,570	38,873	<b>71.5</b>
Births	33,146	33,075	33,715	34,264	33,874	33,191	32,995	32,575	31,859	32,288	33,584	<b>61.8</b>
Abortions	3,393	4,189	4,499	4,350	4,823	4,639	4,679	5,093	5,349	6,080	5,103	<b>9.4</b>
Fetal deaths	181	205	182	227	195	171	174	196	177	202	186	<b>0.3</b>
<b>BLACK OR AFRICAN AMERICAN<sup>d</sup>, total:</b>	4,867	4,955	5,551	5,485	5,688	5,838	5,926	6,295	6,410	6,521	6,213	<b>74.6</b>
Births	4,715	4,726	4,522	4,361	4,388	4,595	4,655	4,865	4,766	4,795	4,847	<b>58.2</b>
Abortions	116	189	981	1,074	1,253	1,196	1,229	1,372	1,594	1,662	1,314	<b>15.8</b>
Fetal deaths	36	40	48	50	47	47	42	58	50	64	52	<b>0.6</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE<sup>e</sup>, total:</b>	5,650	5,577	5,483	5,355	5,406	5,254	5,060	4,843	4,500	4,331	4,319	<b>64.6</b>
Births	5,569	5,476	5,145	4,984	5,030	4,866	4,709	4,462	4,087	3,906	4,010	<b>60.0</b>
Abortions	38	61	291	331	340	348	315	344	372	399	276	<b>4.1</b>
Fetal deaths	43	40	47	40	36	40	36	37	41	26	33	<b>0.5</b>
<b>ASIAN OR PACIFIC ISLANDER<sup>f</sup>, total:</b>	3,715	3,589	3,720	3,774	3,960 <sup>†</sup>	3,941	3,838	3,786	3,541	3,568	3,553	<b>50.7</b>
Births	3,625	3,466	3,169	3,235	3,350	3,327	3,271	3,163	2,968	3,017	3,122	<b>44.6</b>
Abortions	75	110	534	532	608	598	552	612	550	530	413	<b>5.9</b>
Fetal deaths	15	13	17	7	*	16	15	11	23	21	18	<b>0.3</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	99,324	98,762	99,914	98,027	98,060	94,481	93,373	92,675	90,444	92,280	90,256	<b>63.3</b>
Births	85,725	84,963	86,648	85,024	84,404	81,664	80,539	79,183	76,781	77,857	78,355	<b>55.0</b>
Abortions	13,129	13,254	12,747	12,479	13,170	12,336	12,362	13,003	13,186	13,896	11,407	<b>8.0</b>
Fetal deaths	470	545	519	524	486	481	472	489	477	527	494	<b>0.3</b>
<b>Pregnancy rate, total:</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>63.3</b>	
<b>Fertility rate<sup>g</sup></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>55.0</b>	
<b>Abortion rate</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>	<b>8.0</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; <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, 2012-2022**

Race/ethnicity Pregnancy outcome	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2022 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	564	448	496	462	401	327	325	298	252	228	207	<b>1.4</b>
Births	483	373	352	344	291	225	217	218	167	157	149	<b>1.0</b>
Abortions	71	72	140	117	107	100	104	79	83	69	56	<b>0.4</b>
<b>HISPANIC OR LATINO, total:</b>	1,728	1,443	1,292	1,144	1,055	976	953	882	802	737	750	<b>4.5</b>
Births	1,574	1,291	1,138	1,000	909	837	812	733	672	587	591	<b>3.6</b>
Abortions	150	142	141	131	139	136	139	144	125	148	155	<b>0.9</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	174	140	145	106	111	111	94	100	91	72	88	<b>3.9</b>
Births	164	128	107	78	84	76	61	77	57	46	64	<b>2.8</b>
Abortions	9	9	36	27	27	34	31	22	32	25	22	<b>1.0</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	260†	260†	217	204	191	180†	147	147	128	132	80†	<b>4.3</b>
Births	258	251	205	184	178	171	141	130	116	115	76	<b>4.0</b>
Abortions	*	*	7	17	13	*	6	14	9	16	*	<b>**</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	20†	20†	25	20†	20†	10†	10†	10†	10†	15	10†	<b>0.9</b>
Births	18	13	14	17	12	7	10	7	11	7	7	<b>0.5</b>
Abortions	*	*	11	*	*	*	*	*	*	8	*	<b>**</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	2,976	2,476	2,193	1,953	1,792	1,619	1,548	1,452	1,306	1,194	1,146	<b>3.1</b>
Births	2,497	2,056	1,816	1,623	1,474	1,316	1,241	1,165	1,023	912	887	<b>2.4</b>
Abortions	463	402	352	312	308	296	299	280	271	276	250	<b>0.7</b>
<b>Pregnancy rate, total:</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>3.1</b>	
<b>Fertility rate<sup>e</sup></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>2.4</b>	
<b>Abortion rate</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>	<b>0.7</b>	

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

**TABLE 1A-3  
NUMBER OF PREGNANCIES<sup>a</sup> BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES 15-17 YEARS OLD  
WITH RATES<sup>b</sup>, ARIZONA, 2012-2022**

Race/ethnicity Pregnancy outcome	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2022 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	549	434	481	451	382	319	310	290	246	213	202	<b>3.5</b>
Births	475	365	344	339	283	224	213	214	166	147	148	<b>2.6</b>
Abortions	65	66	133	111	96	93	93	75	78	64	52	<b>0.9</b>
<b>HISPANIC OR LATINO, total:</b>	1,670	1,390	1,262	1,103	1,015	936	925	852	767	707	723	<b>11.8</b>
Births	1,528	1,244	1,115	972	877	816	795	711	650	566	570	<b>9.3</b>
Abortions	138	136	134	118	131	117	128	136	113	140	149	<b>2.4</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	166	133	138	103	104	105	90	96	88	65	84	<b>10.3</b>
Births	159	122	102	77	81	71	60	73	56	43	60	<b>7.3</b>
Abortions	6	8	34	25	23	33	28	22	31	21	22	<b>2.7</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	250†	250†	210†	193	178	170†	140†	136	123	124	80†	<b>10.8</b>
Births	251	243	196	177	167	163	134	124	112	108	69	<b>9.9</b>
Abortions	*	*	*	13	11	*	*	12	8	15	*	<b>**</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	20†	10†	23	20†	20†	10†	10†	10†	10†	10†	10†	<b>2.2</b>
Births	17	11	13	17	12	6	10	7	11	*	7	<b>1.4</b>
Abortions	*	*	10	*	*	*	*	*	*	7	*	<b>**</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	2,860	2,385	2,125	1,887	1,707	1,554	1,491	1,401	1,256	1,131	1,101	<b>7.9</b>
Births	2,430	1,985	1,770	1,582	1,420	1,280	1,212	1,129	995	869	854	<b>6.1</b>
Abortions	414	382	330	287	277	267	271	265	251	257	238	<b>1.7</b>
<b>Pregnancy rate, total:</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>7.9</b>	
<b>Fertility rate<sup>e</sup></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>6.1</b>	
<b>Abortion rate</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>	<b>1.7</b>	

Notes: \* Cell suppressed due to non-zero count less than 6; \*\* Cell suppressed due to rate based on non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Fetal deaths are included in the total counts of pregnancies; <sup>b</sup> All rates per 1,000 females 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, 2012-2022**

Race/ethnicity Pregnancy outcome	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2022 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	1,675	1,602	1,759	1,562	1,433	1,248	1,170	1,043	1,000	915	842	<b>20.7</b>
Births	1,494	1,408	1,405	1,187	1,056	939	872	781	724	659	617	<b>15.2</b>
Abortions	167	185	348	371	369	300	292	256	276	249	218	<b>5.4</b>
<b>HISPANIC OR LATINO, total:</b>	3,357	3,175	3,078	2,764	2,668	2,537	2,377	2,308	2,234	2,190	2,126	<b>51.1</b>
Births	3,053	2,789	2,675	2,409	2,227	2,137	1,982	1,861	1,741	1,596	1,636	<b>39.4</b>
Abortions	291	367	390	336	425	390	389	437	486	582	479	<b>11.5</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	390†	397	345	294	320	339	278	305	293	280	268	<b>46.4</b>
Births	380	379	287	234	232	253	210	203	200	171	193	<b>33.4</b>
Abortions	*	14	54	58	86	83	65	98	92	102	70	<b>12.1</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	640†	530†	417	423	388	369	347	309	263	246	243	<b>54.7</b>
Births	632	524	397	385	362	348	322	280	226	227	218	<b>49.1</b>
Abortions	*	*	18	34	25	18	25	24	30	18	23	<b>5.2</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	68	70†	67	72	61	79	62	62	41	43	40	<b>10.9</b>
Births	61	66	43	46	39	48	32	33	20	15	25	<b>6.8</b>
Abortions	7	*	24	25	22	31	30	28	20	28	15	<b>4.1</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	6,734	6,239	5,731	5,168	4,932	4,633	4,281	4,073	3,874	3,718	3,556	<b>37.0</b>
Births	5,620	5,166	4,807	4,261	3,916	3,725	3,418	3,158	2,911	2,668	2,689	<b>28.0</b>
Abortions	1,077	1,039	897	877	989	883	847	889	947	1,023	842	<b>8.8</b>
<b>Pregnancy rate, total:</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>37.0</b>	
<b>Fertility rate<sup>e</sup></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>28.0</b>	
<b>Abortion rate</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>	<b>8.8</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, 2012-2022**

Race/ethnicity Pregnancy outcome	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2022 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	2,239	2,050	2,255	2,024	1,834	1,575	1,495	1,341	1,252	1,143	1,049	<b>5.4</b>
Births	1,977	1,781	1,757	1,531	1,347	1,164	1,089	999	891	816	766	<b>4.0</b>
Abortions	238	257	488	488	476	400	396	335	359	318	274	<b>1.4</b>
<b>HISPANIC OR LATINO, total:</b>	5,085	4,618	4,370	3,908	3,723	3,513	3,330	3,190	3,036	2,927	2,876	<b>13.9</b>
Births	4,627	4,080	3,813	3,409	3,136	2,974	2,794	2,594	2,413	2,183	2,227	<b>10.8</b>
Abortions	441	509	531	467	564	526	528	581	611	730	634	<b>3.1</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	562	537	490	400	431	450	372	405	384	352	356	<b>12.5</b>
Births	544	507	394	312	316	329	271	280	257	217	257	<b>9.0</b>
Abortions	14	23	90	85	113	117	96	120	124	127	92	<b>3.2</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	900†	787	634	627	579	546	495	453	391	378	325	<b>13.8</b>
Births	890	775	602	569	540	519	463	410	342	342	294	<b>12.5</b>
Abortions	*	8	25	51	38	23	31	38	39	34	28	<b>1.2</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	88	80†	92	92	77	89	74	73	55	58	52	<b>3.0</b>
Births	79	79	57	63	51	55	42	40	31	22	32	<b>1.8</b>
Abortions	9	*	35	28	26	34	32	32	23	36	20	<b>1.1</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	9,710	8,715	7,924	7,121	6,724	6,252	5,829	5,525	5,180	4,912	4,702	<b>10.0</b>
Births	8,117	7,222	6,623	5,884	5,390	5,041	4,659	4,323	3,934	3,580	3,576	<b>7.6</b>
Abortions	1,539	1,441	1,249	1,189	1,297	1,179	1,146	1,169	1,218	1,299	1,092	<b>2.3</b>
<b>Pregnancy rate, total:</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>10.0</b>	
<b>Fertility rate<sup>e</sup></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>7.6</b>	
<b>Abortion rate</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>	<b>2.3</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, 2022  
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>											
<b>Total pregnancies</b>	90,256	45	1,101	3,556	18,956	26,844	24,564	12,102	2,860	220†	10†
<b>Births</b>	78,355	33	854	2,689	15,338	23,565	22,364	10,864	2,454	190	*
<b>Abortions<sup>b</sup></b>	11,407	12	238	842	3,527	3,155	2,077	1,149	377	30	0
<b>Fetal deaths</b>	490†	0	9	25	91	124	123	89	29	*	*
<b>White non Hispanic</b>											
<b>Total pregnancies</b>	36,760†	10†	200†	842	6,039	10,887	11,574	5,751	1,338	116	0†
<b>Births</b>	32,790†	*	148	617	4,924	9,804	10,778	5,254	1,163	99	*
<b>Abortions<sup>b</sup></b>	3,760†	*	52	218	1,083	1,027	745	450	165	17	0
<b>Fetal deaths</b>	210†	0	*	7	32	56	51	47	10	0	0
<b>Hispanic or Latino</b>											
<b>Total pregnancies</b>	38,873	27	720†	2,126	10,015	12,013	8,843	4,083	975	66	0†
<b>Births</b>	33,584	21	570	1,636	8,236	10,567	7,995	3,651	848	60	0
<b>Abortions<sup>b</sup></b>	5,103	6	149	479	1,737	1,398	803	406	119	6	0
<b>Fetal deaths</b>	190†	0	*	11	42	48	45	26	8	0	*
<b>Black or African American</b>											
<b>Total pregnancies</b>	6,210†	0†	80†	270†	1,363	1,803	1,667	803	210†	20†	0
<b>Births</b>	4,850†	*	60	193	985	1,389	1,363	673	167	13	0
<b>Abortions<sup>b</sup></b>	1,310†	0	22	70	365	405	293	122	35	*	0
<b>Fetal deaths</b>	50†	0	*	*	13	9	11	8	*	0	0
<b>American Indian or Alaska Native</b>											
<b>Total pregnancies</b>	4,320†	7	80†	240†	1,070†	1,191	1,088	520†	120†	0†	0
<b>Births</b>	4,010†	7	69	218	967	1,101	1,039	494	112	*	0
<b>Abortions<sup>b</sup></b>	280†	0	*	23	100	81	40	23	*	0	0
<b>Fetal deaths</b>	30†	0	*	*	*	9	9	*	*	*	0
<b>Asian or Pacific Islander</b>											
<b>Total pregnancies</b>	3,550†	0†	10†	40	320†	810†	1,294	870†	200†	20†	0
<b>Births</b>	3,120†	0	7	25	226	704	1,189	792	164	15	0
<b>Abortions<sup>b</sup></b>	413	*	*	15	88	100	98	75	28	*	0
<b>Fetal deaths</b>	20†	0	0	0	*	*	7	*	*	*	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, 2022**

Age	Population	PREGNANCIES BY OUTCOME			TOTAL PREGNANCIES	
		Live births	Abortions	Spontaneous fetal losses	Number	Rate
<b>10</b>	44,974	0	0	0	0	<b>0.0</b>
<b>11</b>	45,841	0	0	0	0	<b>0.0</b>
<b>12</b>	47,893	0	*	0	*	<b>**</b>
<b>13</b>	47,993	7	*	0	11	<b>0.2</b>
<b>14</b>	47,292	26	7	0	33	<b>0.7</b>
<b>10-14</b>	233,993	33	12	0	45	<b>0.2</b>
<b>15</b>	46,973	85	39	*	126	<b>2.7</b>
<b>16</b>	46,746	250	70	*	323	<b>6.9</b>
<b>17</b>	45,378	519	129	*	652	<b>14.4</b>
<b>15-17</b>	139,097	854	238	9	1,101	<b>7.9</b>
<b>18</b>	47,565	975	364	10	1,349	<b>28.4</b>
<b>19</b>	48,625	1,714	478	15	2,207	<b>45.4</b>
<b>18-19</b>	96,190	2,689	842	25	3,556	<b>37.0</b>
<b>Total 10-19</b>	469,280	3,576	1,090†	30†	4,700†	<b>10.0</b>

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



## **1B.**

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

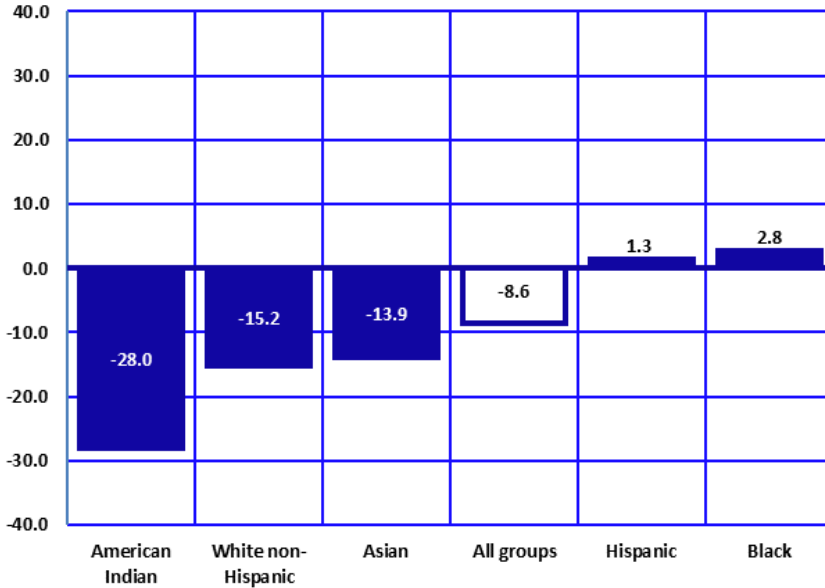
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From 2021 to 2022, the number of residents' births increased by 0.6 percent from 77,857 (2021) to 78,355 (2022), representing an increase of 498 births.

There were striking differences in how the number of births changed from 2012 to 2022 by mother's race/ethnicity. Compared to 2012, the number of births for all combined racial/ethnic groups was 8.6 percent lower in 2022. Taken separately, while the number of births rose by 2.8 percent for Black or African American mothers and 1.3 percent for Hispanic mothers between 2012 and 2022, the remaining racial/ethnic groups witnessed a decline in their birth counts, with American Indian women experiencing most of the decrease (28.0) during the period of time under consideration (**Figure 1B-1**).

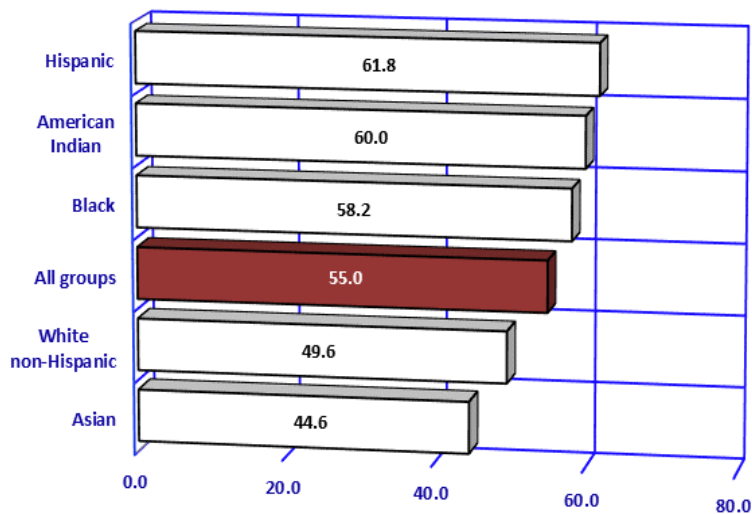
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-1**  
**Percent Change from 2012 to 2022 in the Number of Resident Live Births by**  
**Mother's Race/Ethnicity, Arizona**



From 2012 to 2022, the number of resident live births declined by 8.6 percent (**Figure 1B-1**). Three of the five racial/ethnic groups experienced a decrease in the number of live births, with the exception of Blacks and Hispanics. The magnitude of the reduction in the number of births was the largest among American Indians (28.0 percent), White non-Hispanics (15.2 percent), and Asians (13.9 percent).

**Figure 1B-2**  
**General Fertility Rates<sup>a</sup> by Race/Ethnicity among Females of all Ages,**  
**Arizona, 2022**



From among 1,424,736 women of childbearing age (15-44 years), 78,128 (99.7 percent) of 78,355 total births in 2022 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**.

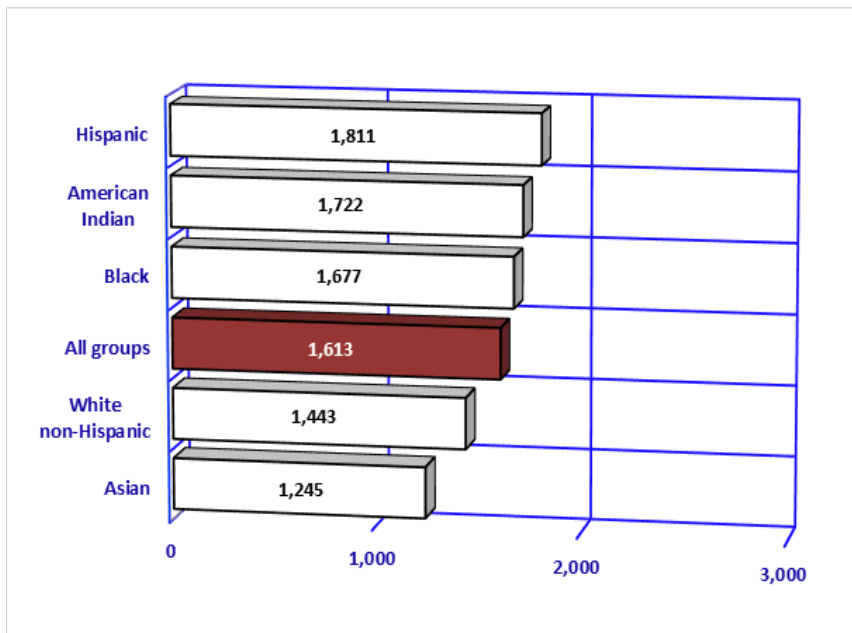
Note: <sup>a</sup> Number of births per 1,000 females 15-44 years old in specified group.



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

**Figure 1B-3**  
Total Fertility Rates<sup>a</sup> by Race/Ethnicity, Arizona, 2022

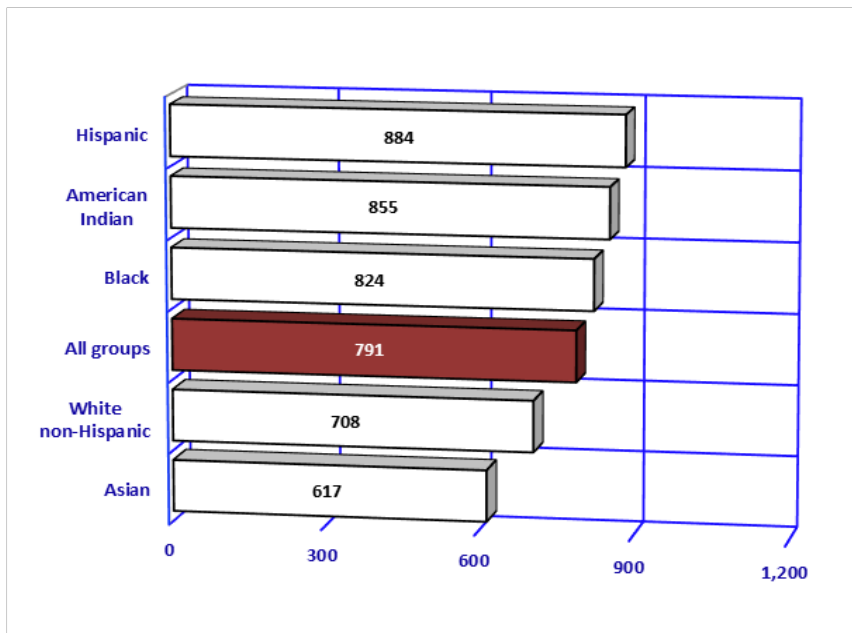
The *total fertility rate* (TFR) indicates the average number of births to a hypothetical cohort of 1,000 women, if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. From 2003 to 2008, Arizona's TFRs always exceeded the rate of "replacement" (2,110 births per 1,000 women). The "replacement" rate is considered the value at which a given generation can exactly replace itself. The TFR was 2,018 births per 1,000 women of childbearing age in 2012, decreasing to 1,613 in 2022 (**Table 1B-1**). In 2022, The TFR for Hispanic women (1,811) was the highest of all racial/ethnic groups and was still 14.2 percent lower than the generation replacement rate. The rate for Asian women (1,245), the lowest of all groups, was 41.0 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 1,613 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 2022, they would have a total of 1,613 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, 2022

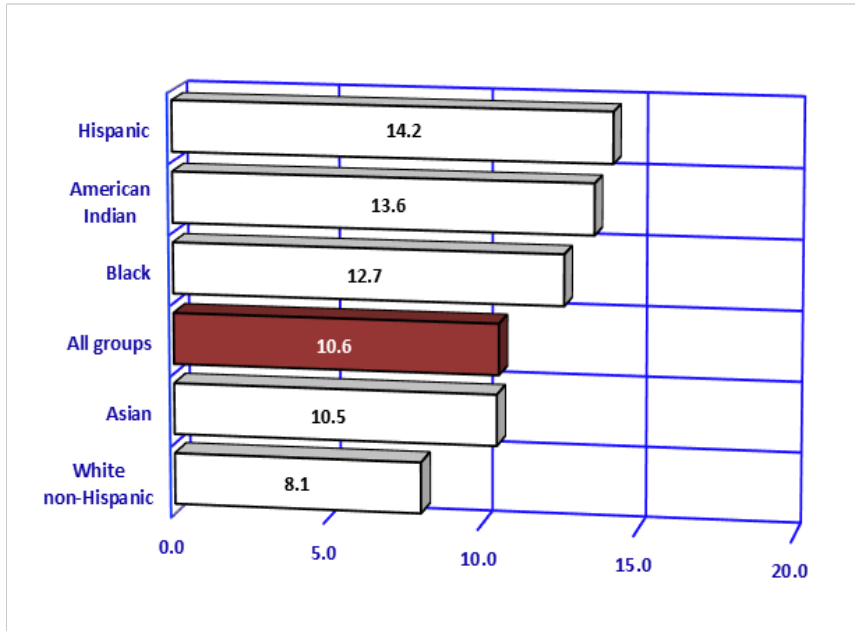
Another measure used to summarize reproduction patterns is the *gross reproduction rate* (GRR). It represents the average number of daughters born to a hypothetical cohort of 1,000 women if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. This 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 2022, the gross reproduction rates in Arizona ranged from 617 for Asian women to 884 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, 2022



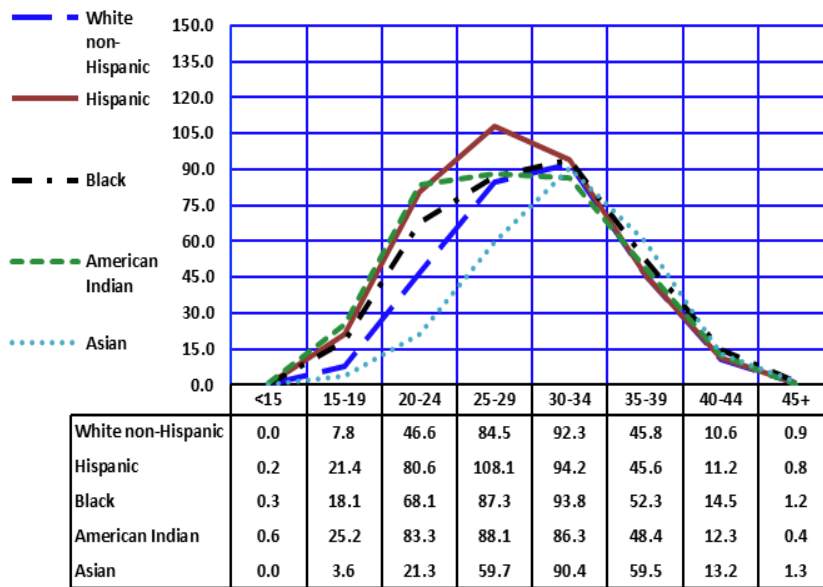
Note: <sup>a</sup> Number of births per 1,000 population in specified group.

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 10.7 in 2020 and 2021 to 10.6 in 2022 (**Table 1B-1**).

In 2022, the crude birth rates by mother's race/ethnicity ranged from 8.1 births per 1,000 White non-Hispanics to 14.2 per 1,000 Hispanics (**Figure 1B-5**).

**Figure 1B-6**  
Birth Rates<sup>a</sup> by Mother's Age Group and Race/Ethnicity, Arizona, 2022



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

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 2022, 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 Hispanic, Black, and White non-Hispanic women and those between ages 35-39 were the highest among Asian and 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.

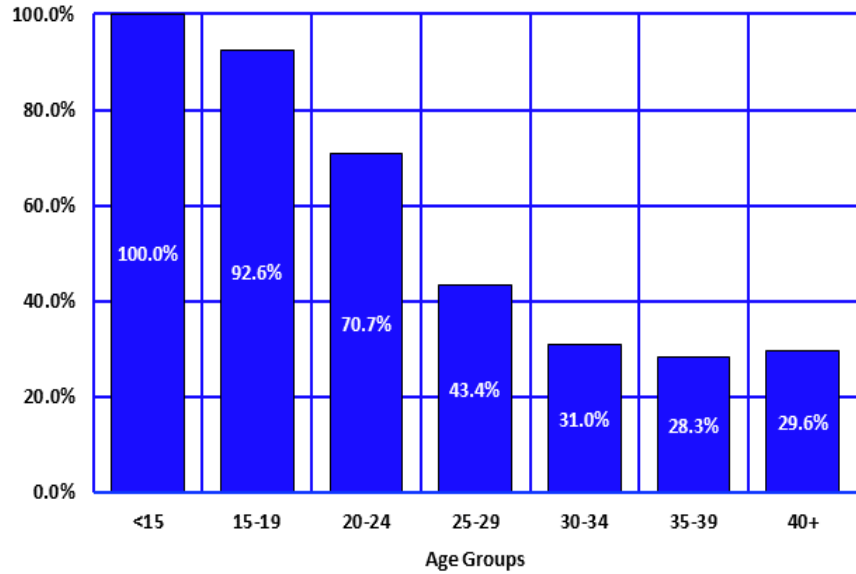
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-7**  
Percent of Births to Unmarried Mothers by Age Group, Arizona, 2022

Unmarried mothers have accounted for a large portion of births with more than 4 of every 10 births in Arizona (**Table 1B-2**). In 2022, 35,183 infants were born to unmarried mothers compared to 38,770 in 2012. 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.

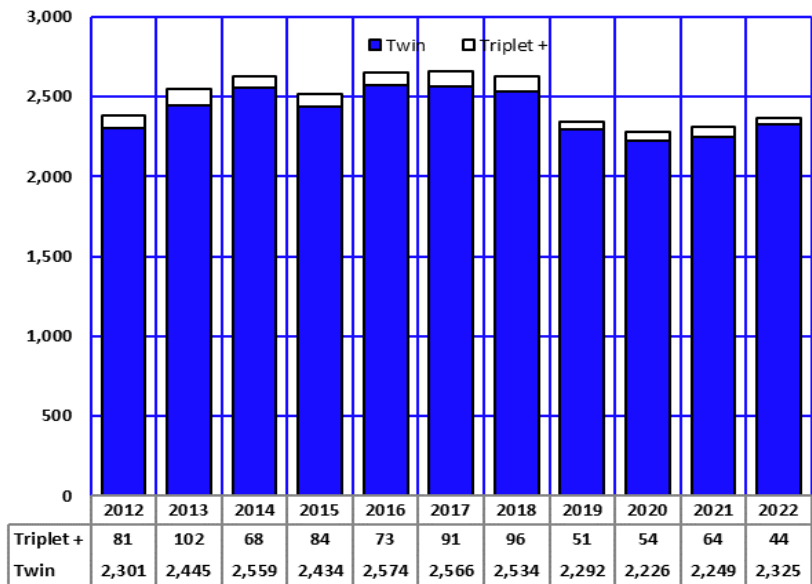
In 2012, the proportion of births among unmarried women aged 20-24 years was 64.9 percent, while in 2022, approximately 70.7 percent of mothers 20-24 years old were unmarried (**Figure 1B-7**).

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



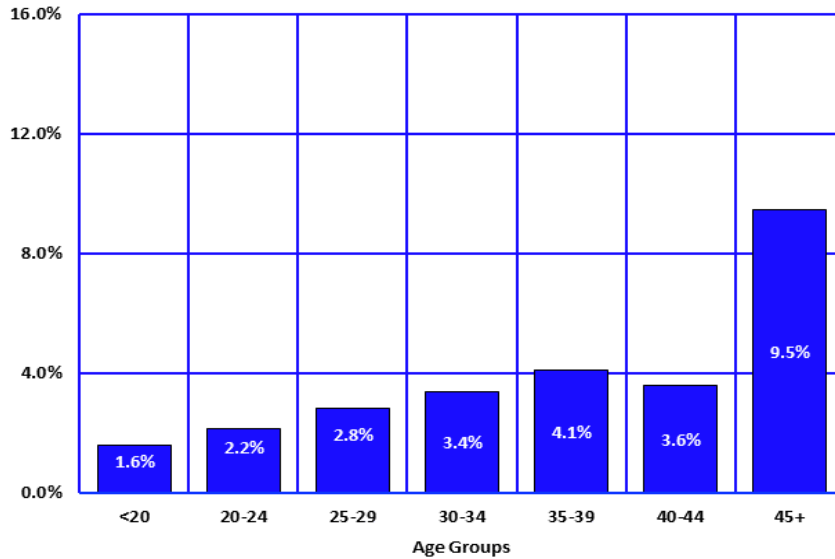
**Figure 1B-8**  
Number of Births in Twin and Triplet+ Deliveries by Year, Arizona, 2012-2022

The number of multiple birth events in Arizona declined from 2,382 in 2012 to 2,369 in 2022 (**Figure 1B-8**). The number of babies born in twin deliveries increased from 2,301 in 2012 to 2,325 in 2022 (**Figure 1B-8**). The number of triplets and higher order multiple birth events decreased by 45.7 percent from 81 in 2012 to 44 in 2022.



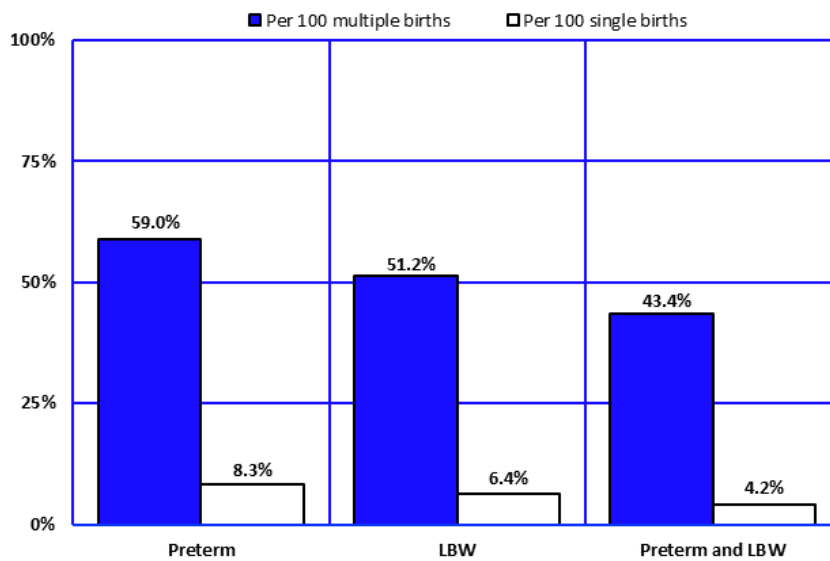
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-9**  
Multiple Births by Mother's Age Group, Arizona, 2022



In 2022, the proportion of multiple births gradually increased with maternal age among mothers below 40-44 years of age and decreased among those mothers (3.6 percent), then sharply increased among mothers age 45 years and older. Among women aged 45 years and older, 9.5 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, 5.1 percent in 2021 to 9.5 percent in 2022. 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, 2022



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 2022, infants born in multiple deliveries were 7.1 times more likely (59.0 vs. 8.3 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 59% 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 2022, infants born at very low birth weight (<1,500 grams) accounted for 47.4 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.

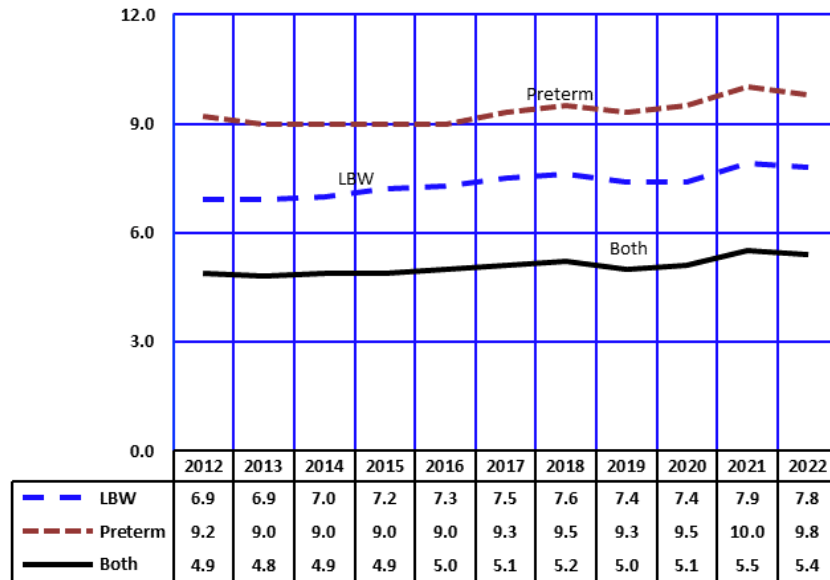
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-11**  
Preterm<sup>a</sup> and Low Birthweight (LBW)<sup>b</sup> Births by Year, Arizona, 2012-2022

The proportion of preterm births reached 9.8 percent of all births in 2022, a slight decrease from 10.0 percent in 2021.

The proportion of infants born prematurely and who were also low birth weight (LBW; at less than 2,500 grams) slightly decreased from 5.5/100 births in 2021 to 5.4/100 births in 2022 (**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**).

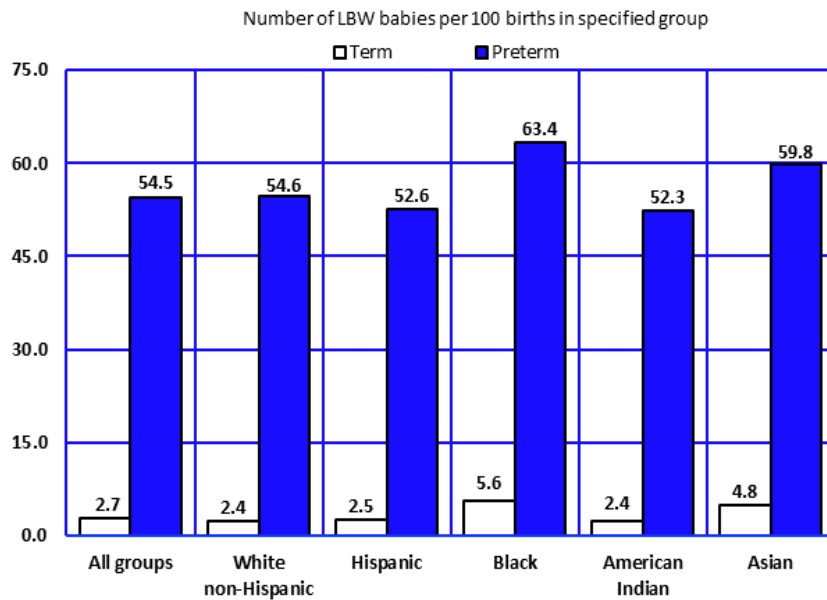


Notes: <sup>a</sup> Preterm: < 37 weeks of gestation; <sup>b</sup> Low birthweight (less than 2,500 grams or 5 pounds 8 ounces); In this report, the primary measure used to determine the gestational age is the clinical estimate of gestation as reported on the birth certificate.

**Figure 1B-12**  
Low-Birthweight (LBW) Births by Length of Gestation and Mother's Race/Ethnicity, Arizona, 2022

In 2022, 7.8 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 2012 (6.9 percent) (**Table 1B-2**). Preterm delivery is the strongest risk factor for LBW. Infants born at less than 37 completed weeks of gestation were 20.2 times (54.5 vs. 2.7 percent) more likely to be LBW than infants born at term (**Figure 1B-12**). Approximately, seven out of ten (68.7 percent) LBW babies born in 2022 were preterm (**Table 1B-3**).

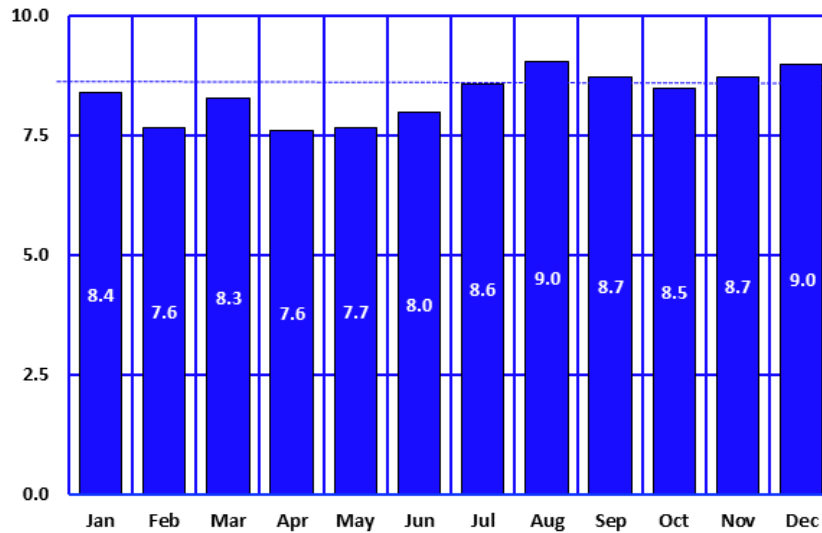
County-level data for LBW newborns are available in (**Tables 5B-16** – **5B-23**). Community level information is in (**Table 9A**).



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).

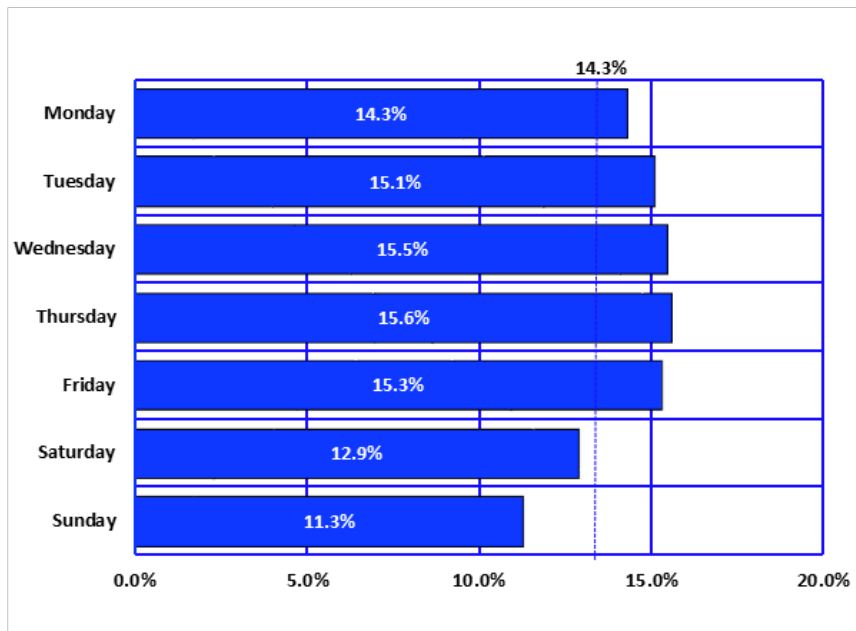
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-13**  
Percent of Resident Births by Month, Arizona, 2022



In 2022, monthly births in Arizona averaged around 8.3 percent. (Figure 1B-13). In 2022, the seasonal fluctuation of the frequency of births is marked by 2 raised peaks in August and December (9.0 percent), compared to other months throughout the year.

**Figure 1B-14**  
Percent of Resident Births by Day of the Week, Arizona, 2022



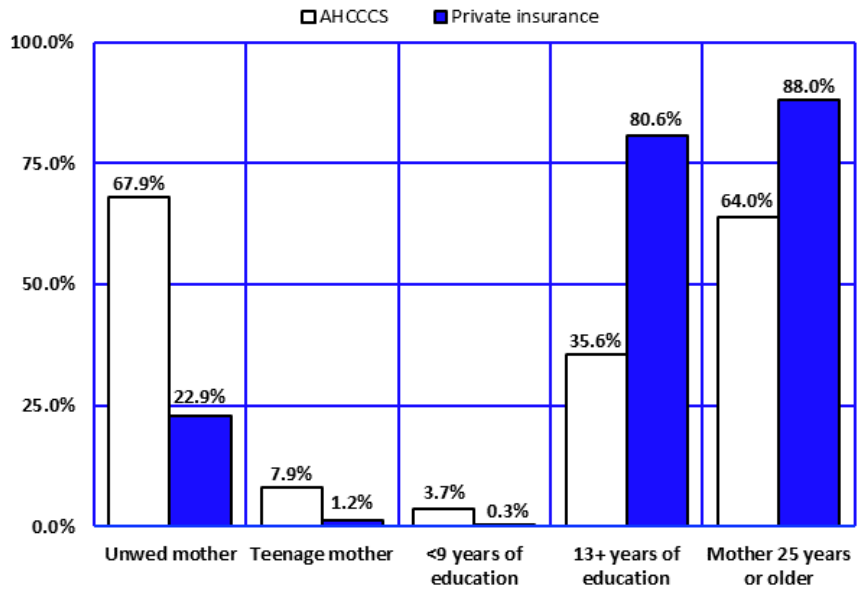
On average, 215 infants were born per day in 2022 to Arizona residents. The daily percent of resident live births in 2022 was substantially lower on weekends than on weekdays (Figure 1B-14). Many studies suggest that weekly, daily, and hourly variations observed in hospitals and clinics are not due to 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 2022, only 8.8 percent of cesarean deliveries occurred on Sundays, compared to 16.0 percent on Mondays. The average rate of induction of labor was substantially lower on weekend days (12.2 percent) than it was on week days (15.1 percent).

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The number of years of maternal education was the only possible proxy of socioeconomic status (SES) on the birth certificate prior to 1989. Paying party for the delivery became another SES indicator in 1989. The Arizona Health Care Cost Containment System (AHCCCS, the State's Medicaid Program) versus private health insurance (PHI) compares mothers of lower and higher SES respectively. PHI mothers were 2.3 times more likely to have some college education or higher (13+ years of education) than were AHCCCS mothers (80.6 and 35.6 percent respectively, **Figure 1B-15**). Mothers recipient AHCCCS were more likely to be unmarried (67.9%) 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.

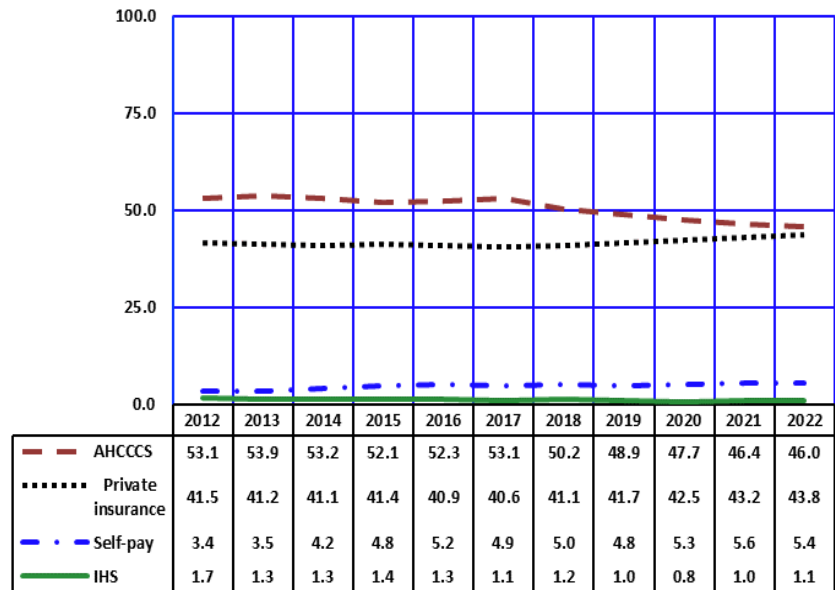
**Figure 1B-15**  
Comparison of Selected Sociodemographic Characteristics by the Payer for Delivery, Arizona, 2022



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 2012, private insurance funded 41.5 percent of births and AHCCCS paid for 53.1 percent of births. The share of AHCCCS funded births varied little from 2012 to 2022. The share of private health insurance also remained stable during this time period. In 2022, the proportion of births paid by AHCCCS decreased 13.4 percent, while the percent of births paid by a private insurance increased 5.5 percent. In 2022, 5.4 percent of births were paid by mothers themselves and/or their families (i.e. self-pay). The Indian Health Service (IHS) paid for 1.1 percent of the births in 2022, a slight increase from last year (**Table 1B-25 and Table 1B-27**).

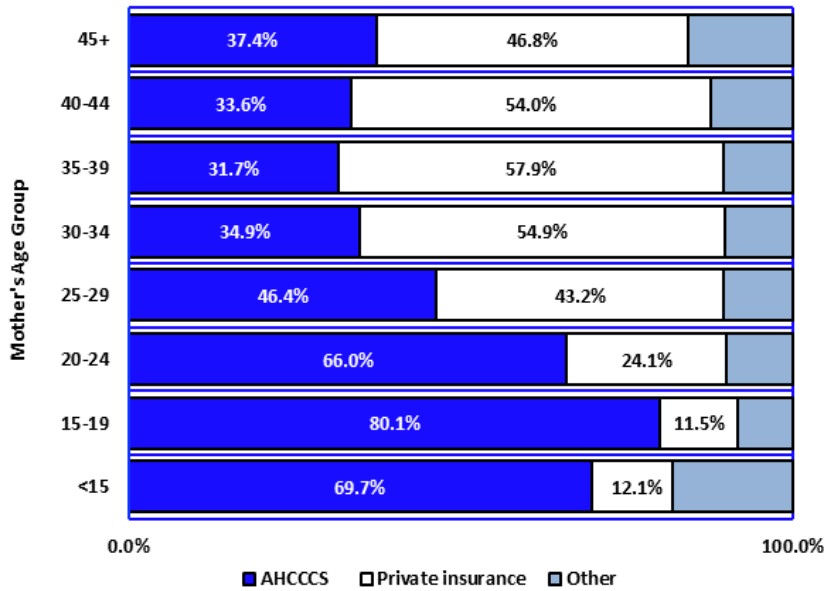
**Figure 1B-16**  
Births by Payer and Year, Arizona, 2012-2022



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

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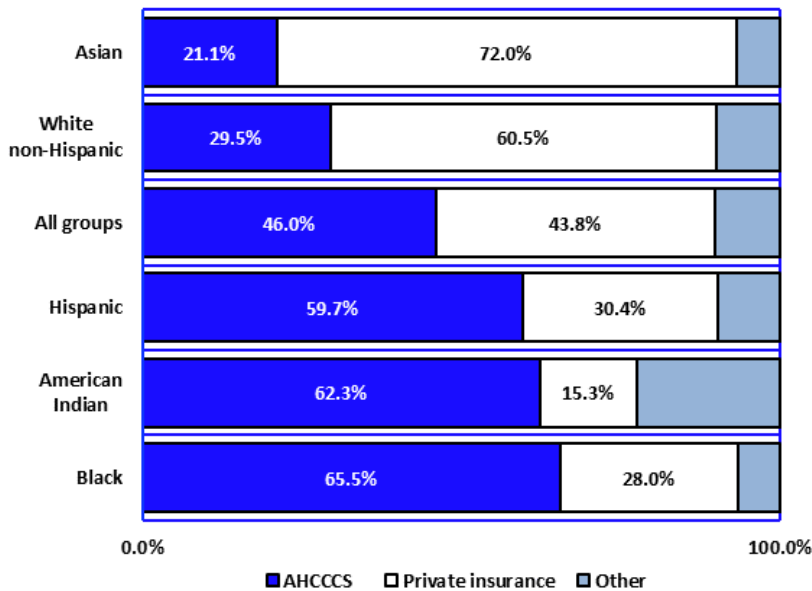
**Figure 1B-17**  
**Payer for Delivery by Mother's Age Group, Arizona, 2022**



In 2022, 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 2022 (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, 2022**



In 2022, private insurance was the largest payer for deliveries of Asian (72.0 percent) and White non-Hispanic infants (60.5 percent). In contrast, the Arizona Health Care Cost Containment System was the largest payer for deliveries of Black or African American (65.5 percent), American Indian (62.3 percent), and Hispanic or Latino infants (59.7 percent).

The Indian Health Service as a payer accounted for 20.1 percent of deliveries of American Indian or Alaska Native infants in the State (**Figure 1B-18**, based on data in **Table 1B-27**).

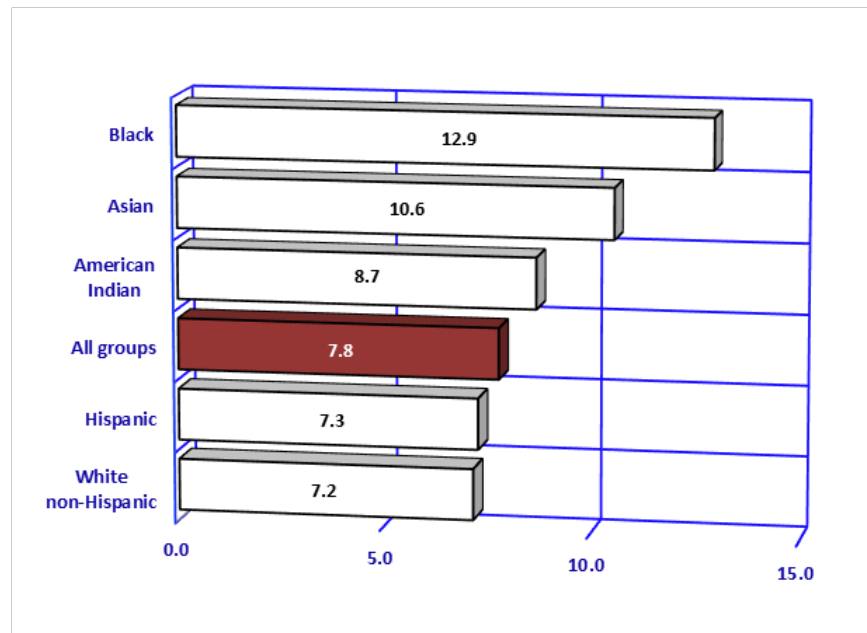
Hispanics or Latinos accounted for 55.6 percent of the 36,055 deliveries paid for by AHCCCS. About 26.8 percent of all AHCCCS births were to White non-Hispanic women (based on data in **Table 1B-27**).

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



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**Figure 1B-19**  
**Percent of Low Birthweight<sup>a</sup> by Mother's Race/Ethnicity,**  
**Arizona Residents, 2022**

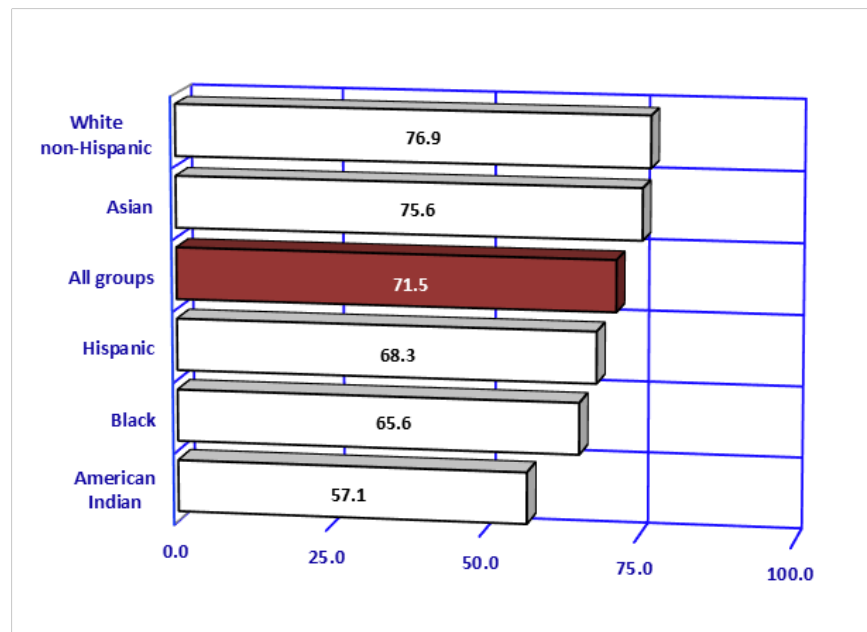


Note: <sup>a</sup> Low birthweight is less than 2,500 grams (less than 5 pounds 8 ounces).

In 2022, 7.8 percent of all Arizona infants were born at a low birthweight (LBW), or at less than 2,500 grams (5 pounds 8 ounces).

In Arizona, LBW rates differed by mother's racial/ethnic group. LBW rates were highest for newborns of Black or African American mothers (12.9 percent), Asian or Pacific Islander mothers (10.6 percent), and American Indian mothers (8.7 percent). Newborns of Hispanic or Latino and White non-Hispanic had the lowest LBW rates among all racial/ethnic groups (Figure 1B-19, based on data in **Table 1B-25**).

**Figure 1B-20**  
**First Trimester Prenatal Care by Mother's Race/Ethnicity,**  
**Arizona Residents, 2022**

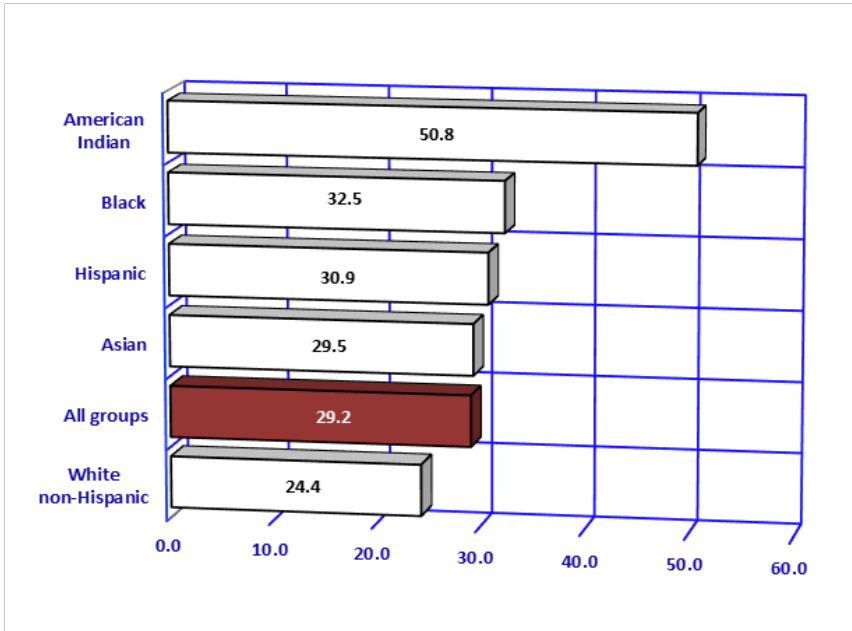


The percent of Arizona mothers giving birth who received early prenatal care (i.e., in the first trimester) has decreased from 2012 (82.6 percent) to 2022 (71.5 percent; **Table 1B-2**). It should be noted that with the adoption of the 2003 revised U.S. birth certificate in 2014, trend analysis of the 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 2014-2022 may be attributable for the most part to differences in reporting. Starting in 2014, prenatal care beginning in the first trimester has been minimally increasing from a low of 66.0 percent in 2014 to a high of 71.7 in 2021.

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

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

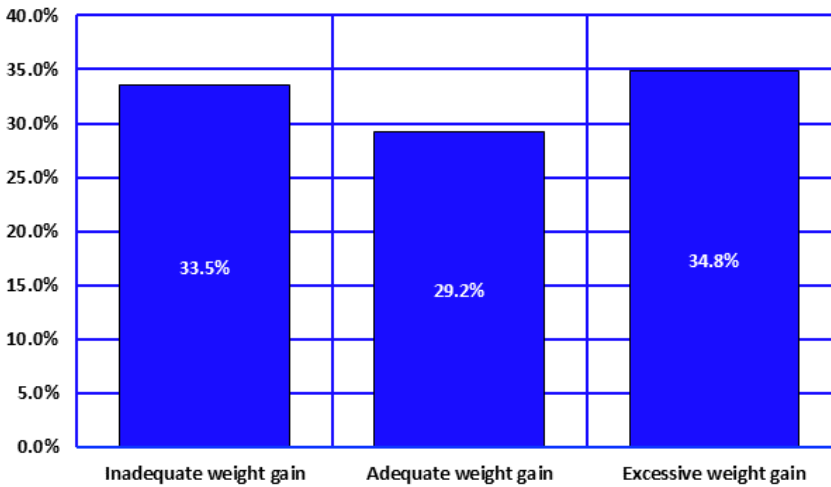
**Figure 1B-21**  
**Maternal Medical Risk Factors<sup>a</sup> by Mother's Race/Ethnicity, Arizona, 2022**



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 2022, with exception to White non-Hispanic 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, 2022**



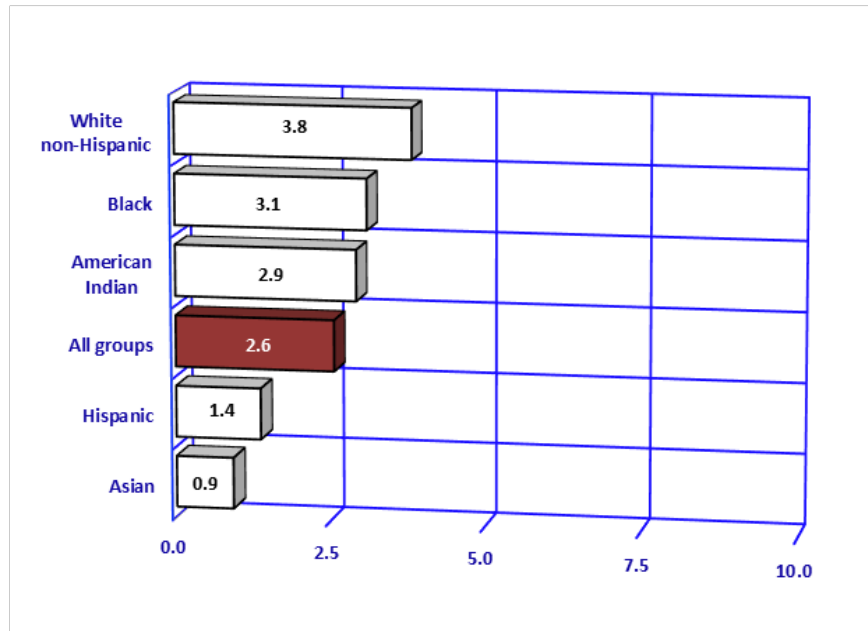
Maternal weight gain during pregnancy is a determinant of both fetal growth and birthweight. Insufficient or excessive weight gain during pregnancy can negatively influence outcomes of both mother and infant. Based on the [Institute of Medicine](#) guidelines, women who are of normal weight (body mass 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 2022, the proportion of newborns with low birthweight was the lowest among mothers who gained the recommended amount of weight during pregnancy (**Figure 1B-22**).

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**Figure 1B-23**  
Self-reported Tobacco Use during Pregnancy<sup>a</sup> by Race/Ethnicity, Arizona, 2022

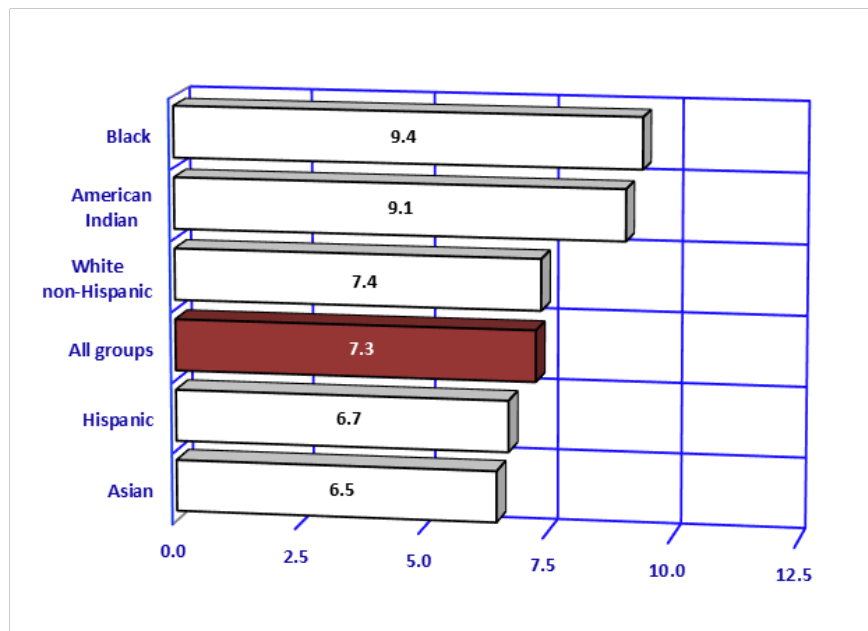
Cigarette smoking during pregnancy has been associated with reduced infant weight at birth, intrauterine growth retardation, and preterm births. Smoking during pregnancy was reported by 2.6 percent of women giving birth in 2022 (**Table 1B-25, Table 5B-30**), compared to 10.5 percent in 1989, when this 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, 2022

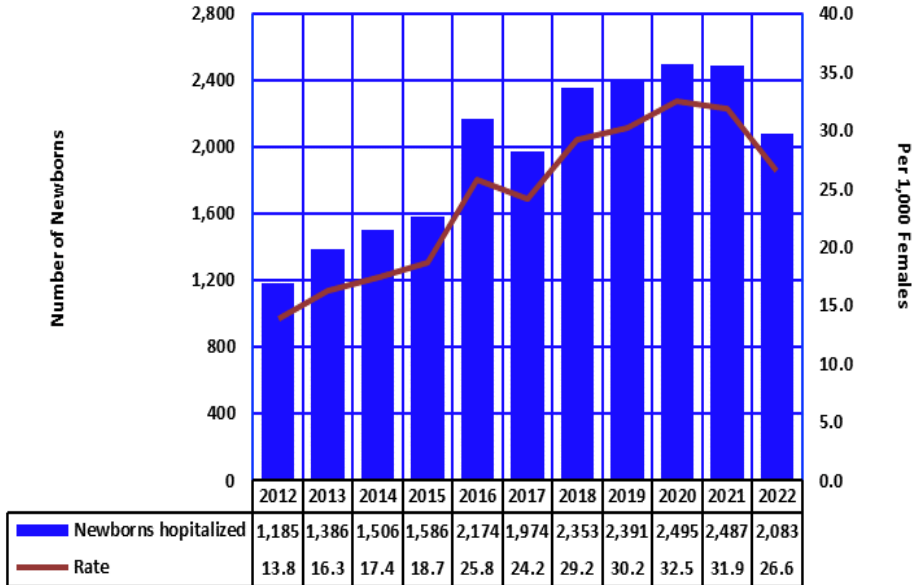
In 2022, 5,713 or 7.3 percent of newborns were admitted to newborn intensive care units (NICUs). The proportion of NICU admissions differed among racial/ethnic groups. Black or African American, American Indian, and White non-Hispanic newborns had the highest rates of NICU admissions compared the other racial/ethnic groups (**Table 1B-25**). Prematurity, i.e., gestational age before 37 weeks lead to more NICU admissions (58.8 percent) than did LBW (49.0 percent) (**Table 1B-32**).



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

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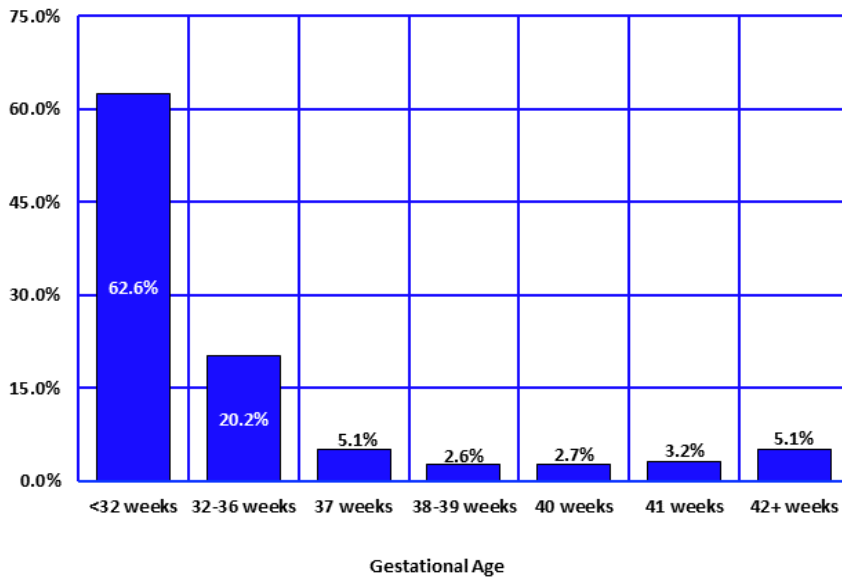
**Figure 1B-25**  
**Newborns Who Were Hospitalized after Birth because They Were Affected by Maternal Use of Drugs during Pregnancy, Arizona, 2012-2022**



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 13.8/1,000 in 2012 to 26.6/1,000 in 2022.

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, 2022**



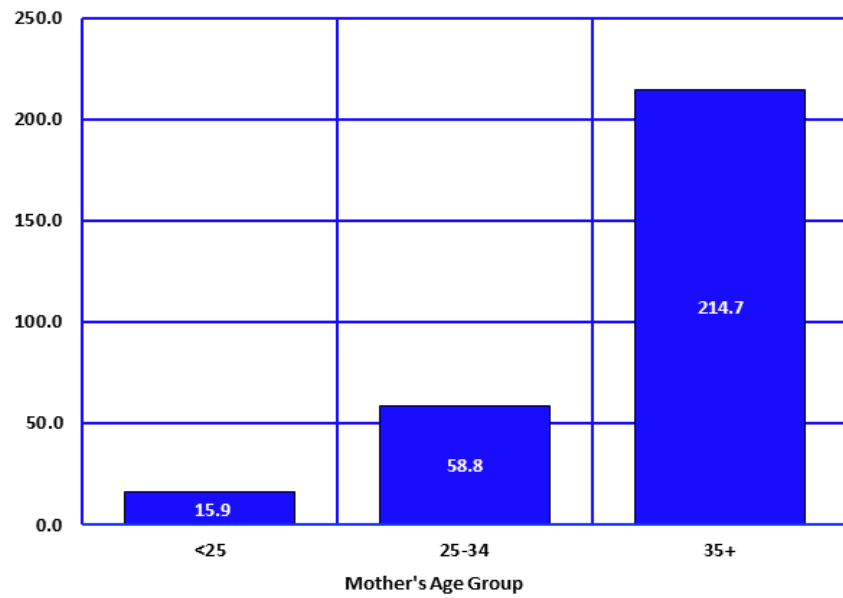
With the implementation of the revised birth certificate, three of the six specific abnormal conditions listed on the birth certificate have been reported most frequently: *assisted ventilation immediately after delivery, assisted ventilation for more than six hours, and suspected neonatal sepsis (Table 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, 2022**

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 2022 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 214.7 cases of Down's Syndrome per 100,000 births to women 35 years or older was 13.5 times greater than the incidence rate of 15.9 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>, 2012-2022**

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
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
2022	AZ	10.6	55.0	1,613	791	0.1	15.1	62.7	92.8	92.7	47.0	11.2	0.8
	U.S.	11.0	56.0	1,657	N/A	0.2	13.6	57.5	93.5	97.5	55.3	12.6	1.1

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 2022 TFR of 1,613 can be interpreted at the individual level as the average number of children a female resident would have by age 50 (1,613/1000 = 2 live births) if she were subjected throughout her life to the age-specific birth rates observed in 2022.

<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 2012-2022.

<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/natality-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, 2012-2022**  
**(ALL RACE/ETHNIC GROUPS)**

Characteristic	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Number of births</b>	85,725	84,963	86,648	85,024	84,404	81,664	80,539	79,183	76,781	77,857	78,355
<b>Age of mother</b>											
≤19 years	9.5	8.5	7.6	6.9	6.4	6.2	5.8	5.5	5.1	4.6	4.6
≥30 years	36.7	37.2	38.8	39.3	40.2	40.9	42.0	42.6	43.9	44.9	45.8
<b>Marital status</b>											
Unmarried	45.2	45.1	44.7	45.3	44.8	44.4	44.6	45.0	45.0	45.2	44.9
<b>Mother's education</b>											
<9 years	4.3	3.8	3.7	3.5	3.2	3.1	3.0	2.8	2.5	2.3	2.3
<b>Mother's race/ethnicity</b>											
White <sup>b</sup>	45.1	45.0	46.3	44.9	44.7	43.7	43.3	43.1	43.1	43.5	41.9
Hispanic	38.7	38.9	38.9	40.3	40.1	40.6	41.0	41.1	41.5	41.5	42.9
Black	5.5	5.6	5.2	5.1	5.2	5.6	5.8	6.1	6.2	6.2	6.2
American Indian	6.5	6.4	5.9	5.9	6.0	6.0	5.8	5.6	5.3	5.0	5.1
Asian	4.2	4.1	3.7	3.8	4.0	4.1	4.1	4.0	3.9	3.9	4.0
<b>Prenatal care begin</b>											
1 <sup>st</sup> Trimester	82.6	81.3	66.0	67.9	68.9	68.3	68.8	68.9	68.8	71.7	71.5
3 <sup>rd</sup> Trimester	3.2	3.6	5.3	5.5	5.8	5.7	6.2	6.8	6.7	6.1	5.7
No Care	1.2	1.4	2.1	2.2	2.4	2.9	2.8	2.6	2.5	2.5	2.3
<b>Prenatal visits</b>											
1-4	3.6	3.8	4.4	4.4	4.6	4.6	5.0	5.6	5.4	4.8	4.7
≥5	94.9	94.7	92.1	92.2	91.5	90.8	90.9	89.9	90.2	91.7	91.5
≥9	81.3	81.2	77.6	77.0	76.0	75.6	74.5	72.4	72.0	74.8	74.6
≥13	34.6	34.8	30.7	30.4	29.9	31.2	31.0	29.2	29.2	30.4	30.0
<b>Medical risk/ Complications<sup>c</sup></b>	52.4	55.5	<b>34.5</b>	<b>39.0</b>	40.7	42.7	44.2	46.9	49.1	50.2	50.3
<b>Gestational age<sup>d</sup></b>											
Preterm (<37 weeks)	9.2	9.0	9.0	9.0	9.0	9.3	9.5	9.3	9.5	10.0	9.8
<b>Birth weight</b>											
<2,500 grams	6.9	6.9	7.0	7.2	7.3	7.5	7.6	7.4	7.4	7.9	7.8
<1,500 grams	1.2	1.1	1.2	1.1	1.2	1.2	1.2	1.1	1.1	1.3	1.2
<b>Child's sex</b>											
Male	51.2	51.4	51.3	51.3	50.9	50.8	51.2	51.2	50.9	51.2	51.0
Female	48.8	48.6	48.7	48.7	49.1	49.2	48.8	48.8	49.1	48.8	49.0
<b>Plurality</b>											
Multiple births	2.8	3.0	3.0	3.0	3.1	3.3	3.3	3.0	3.0	3.0	3.0
<b>Caesarean delivery</b>	27.6	27.8	27.7	27.5	27.5	26.8	27.5	27.8	28.4	28.7	28.6
<b>Place of delivery</b>											
Hospital <sup>e</sup>	98.6	98.7	98.5	98.5	98.3	98.3	98.2	98.3	97.9	97.5	97.4
<b>Attendant at birth</b>											
Midwife <sup>f</sup>	7.2	7.4	10.2	11.8	12.8	13.5	13.1	13.9	13.6	13.1	13.4
<b>Previous live births</b>											
1 or more	62.7	63.6	64.0	64.3	64.8	64.4	64.2	63.9	63.1	63.0	62.1

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 corrections.

<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, 2012-2022  
(ALL RACE/ETHNIC GROUPS)**

<b>Characteristic</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>2022</b>
<b>Number of births</b>	5,946	5,849	6,069	6,093	6,186	6,109	6,106	5,829	5,650	6,140	6,113
<b>Age of mother</b>											
≤19 years	10.7	8.9	7.8	7.8	7.0	7.1	6.5	5.7	5.6	5.3	5.4
≥30 years	39.4	37.9	40.9	42.0	42.4	43.0	46.3	45.6	46.7	49.2	48.8
<b>Marital status</b>											
Unmarried	51.4	51.3	49.1	47.5	48.2	49.6	49.8	50.0	50.2	51.1	51.0
<b>Mother's education</b>											
<9 years	4.5	4.2	3.8	3.5	3.7	3.0	3.0	2.9	2.8	2.6	2.5
<b>Mother's race/ethnicity</b>											
White <sup>b</sup>	42.1	42.0	44.7	41.7	41.8	41.0	40.3	40.0	39.8	39.9	38.5
Hispanic	37.9	37.6	37.0	38.8	38.8	38.3	38.9	39.0	39.2	40.0	40.1
Black	9.3	8.9	8.8	8.8	8.5	9.4	9.4	10.2	10.8	10.6	10.3
American Indian	6.3	6.7	5.2	6.0	5.9	6.2	6.1	6.1	5.2	5.0	5.7
Asian	4.4	4.7	4.2	4.8	5.1	5.2	5.2	4.7	5.0	4.5	5.4
<b>Prenatal care began</b>											
1st Trimester	80.0	78.9	63.6	65.0	66.0	65.9	64.2	64.5	65.4	66.8	68.5
3rd Trimester	2.7	3.4	4.1	3.9	4.5	4.0	4.8	4.9	5.3	4.5	4.3
No Care	2.9	2.9	4.8	5.2	5.0	5.6	6.9	6.7	5.6	5.9	5.3
<b>Prenatal visits</b>											
1-4	8.6	8.2	8.6	9.4	9.5	9.4	10.2	11.4	11.5	10.0	10.1
≥5	87.9	88.5	84.8	83.1	82.6	82.3	79.6	78.9	80.0	82.2	82.3
≥9	65.5	66.4	60.4	58.1	57.4	56.1	52.1	51.9	51.7	53.5	53.8
≥13	26.7	27.7	22.1	20.2	20.1	21.3	20.1	19.1	18.4	19.8	19.1
<b>Medical risks/ Complications<sup>c</sup></b>	73.2	72.5	<b>58.9</b>	<b>60.0</b>	62.0	65.1	68.7	68.5	70.5	70.0	70.4
<b>Gestational age<sup>d</sup></b>											
Preterm (<37 weeks)	71.2	70.2	69.4	68.8	68.7	67.8	69.2	68.5	69.3	70.2	68.7
<b>Birth weight</b>											
<1,500 grams	16.6	15.8	16.8	16.0	16.3	15.8	16.1	15.5	15.6	16.0	15.3
<1,000 grams	8.1	7.4	8.4	7.4	8.0	7.7	7.8	7.2	7.8	7.7	7.2
<b>Child's sex</b>											
Male	48.7	49.3	47.7	47.4	48.0	46.9	47.2	48.0	47.9	46.8	47.1
Female	51.3	50.7	52.3	52.6	52.0	53.1	52.8	52.0	52.1	53.2	52.9
<b>Plurality</b>											
Multiple births	23.0	24.4	23.7	22.5	23.9	22.8	24.6	22.7	22.4	21.3	19.8
<b>Caesarean delivery</b>	47.7	47.6	47.4	48.6	48.4	47.0	49.1	50.1	50.1	51.8	49.8
<b>Place of delivery</b>											
Hospital <sup>e</sup>	99.7	99.7	99.7	99.5	99.4	99.3	99.6	99.4	99.3	99.5	99.2
<b>Attendant at birth</b>											
Midwife <sup>f</sup>	2.5	2.7	9.5	10.5	11.0	12.3	11.8	12.9	12.6	11.9	11.9
<b>Previous live births</b>											
1 or more	61.4	60.5	61.4	60.9	61.0	60.7	61.8	61.2	59.8	61.1	58.3

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 corrections.

<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, 2012-2022  
(URBAN REGIONS)<sup>b</sup>**

Characteristic	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Number of births</b>	74,128	73,493	74,677	73,547	72,899	70,780	69,890	68,797	66,845	67,950	68,504
<b>Age of mother</b>											
≤19 years	9.0	8.2	7.3	6.6	6.1	5.8	5.5	5.2	4.9	4.3	4.3
≥30 years	37.9	38.4	40.0	40.6	41.2	42.0	43.1	43.5	44.8	45.9	46.6
<b>Marital status</b>											
Unmarried	44.1	44.1	43.6	44.1	43.7	43.2	43.4	43.9	44.0	44.2	43.9
<b>Mother's education</b>											
<9 years	4.7	4.0	3.9	3.7	3.5	3.2	3.1	3.0	2.6	2.5	2.4
<b>Mother's race/ethnicity</b>											
White <sup>c</sup>	44.6	44.3	45.7	44.5	44.0	43.1	42.6	42.2	42.2	42.3	40.8
Hispanic	40.9	41.3	41.3	42.5	42.5	43.0	43.2	43.4	43.7	43.7	44.9
Black	6.1	6.2	5.9	5.8	5.9	6.3	6.5	6.9	6.9	6.9	6.9
American Indian	3.7	3.7	3.1	3.1	3.2	3.1	3.2	3.1	3.0	2.8	3.0
Asian	4.7	4.5	4.0	4.2	4.4	4.5	4.4	4.4	4.2	4.2	4.3
<b>Prenatal care began</b>											
1st Trimester	83.4	82.1	66.6	68.3	69.4	68.7	69.5	69.9	69.4	72.5	72.1
3rd Trimester	3.1	3.5	5.2	5.3	5.6	5.4	6.1	6.6	6.5	5.9	5.6
No care	1.2	1.3	2.1	2.1	2.3	2.8	2.6	2.3	2.3	2.4	2.2
<b>Prenatal visits</b>											
1-4	3.2	3.5	4.0	4.1	4.3	4.2	4.7	5.3	5.2	4.5	4.5
≥5	95.3	95.1	92.4	92.6	91.9	91.2	91.5	90.5	90.7	92.3	91.7
≥9	82.4	82.3	78.7	78.2	77.1	76.7	75.6	73.2	72.8	75.8	75.3
≥13	35.1	35.3	31.1	31.0	30.1	31.7	31.7	29.8	29.8	31.2	30.6
<b>Medical risks/complications<sup>d</sup></b>	52.5	56.1	<b>34.5</b>	<b>39.4</b>	41.4	43.1	44.7	47.5	49.7	50.8	50.8
<b>Gestational age<sup>e</sup></b>											
Preterm (<37 weeks)	9.2	9.1	9.1	9.0	9.0	9.2	9.5	9.3	9.4	10.0	9.8
<b>Birth weight</b>											
<2,500 grams	6.9	6.8	7.0	7.1	7.2	7.4	7.6	7.3	7.3	7.8	7.7
<1,500 grams	1.2	1.1	1.2	1.1	1.2	1.2	1.2	1.1	1.1	1.3	1.2
<b>Child's sex</b>											
Male	51.2	51.4	51.3	51.3	51.0	50.7	51.1	51.3	50.8	51.1	51.0
Female	48.8	48.6	48.7	48.7	49.0	49.3	48.9	48.7	49.2	48.9	49.0
<b>Plurality</b>											
Multiple births	2.9	3.1	3.1	3.0	3.2	3.3	3.3	3.0	3.0	3.0	3.1
<b>Caesarean delivery</b>	27.9	28.1	28.1	27.9	27.7	27.2	27.7	28.0	28.8	29.0	29.0
<b>Place of delivery</b>											
Hospital <sup>f</sup>	98.7	98.7	98.7	98.6	98.4	98.4	98.3	98.4	98.0	97.6	97.6
<b>Attendant at birth</b>											
Midwife <sup>g</sup>	6.3	6.3	10.1	12.1	13.0	13.8	13.1	14.1	13.6	13.2	13.6
<b>Previous live births</b>	62.6	63.4	63.7	64.0	64.6	64.0	63.9	63.6	62.7	62.5	61.7
<b>Number of LBW births</b>	5,096	5,013	5,232	5,199	5,270	5,224	5,277	5,030	4,886	5,326	5,291
<b>Age of mother</b>											
≤19 years	10.2	8.8	7.3	7.4	6.3	6.9	6.1	5.8	5.4	5.2	5.1
≥30 years	40.4	39.3	42.0	43.6	44.2	44.1	47.5	46.3	47.6	50.2	49.5
<b>Marital status</b>											
Unmarried	50.1	50.8	48.3	49.5	47.1	48.4	48.1	49.0	49.1	50.3	50.1
<b>Mother's education</b>											
<9 years	4.7	4.3	4.0	3.6	3.9	3.2	3.2	3.0	2.8	2.7	2.5
<b>Mother's race/ethnicity</b>											
White <sup>c</sup>	41.1	40.9	43.3	40.4	41.1	40.2	39.9	38.9	38.5	38.4	37.2
Hispanic	40.2	39.8	39.4	41.3	40.8	40.6	40.7	41.2	41.0	41.9	41.9
Black	10.4	10.2	9.9	10.0	9.7	10.8	10.5	11.6	12.1	12.1	11.6
American Indian	3.3	4.0	2.7	3.0	2.8	2.7	3.2	3.0	2.8	2.8	3.4
Asian	4.9	5.1	4.6	5.3	5.7	5.6	5.7	5.2	5.6	4.8	5.9
<b>Prenatal care began</b>											
1st Trimester	80.5	79.8	63.8	66.0	66.8	66.7	65.2	66.0	66.4	67.8	69.8
3rd Trimester	2.6	3.3	4.1	3.8	4.3	3.8	4.7	4.8	5.1	4.3	4.1
No care	2.8	2.7	4.9	4.8	4.3	5.3	6.2	5.7	5.3	5.8	5.1
<b>Prenatal visits</b>											
1-4	7.8	7.8	8.4	8.9	8.6	8.7	9.7	11.0	11.6	9.6	9.9
≥5	88.9	89.1	84.8	84.1	84.0	83.3	81.0	80.1	80.6	83.0	82.8
≥9	66.5	67.7	60.8	59.6	58.6	57.7	53.7	52.7	52.4	54.2	54.9
≥13	27.3	28.4	22.6	20.6	20.6	21.8	21.0	19.3	18.5	20.3	19.6
<b>Medical risks/complications<sup>d</sup></b>	74.2	73.7	<b>59.0</b>	<b>60.0</b>	61.7	65.3	68.3	68.6	70.2	70.0	70.8
<b>Gestational age<sup>e</sup></b>											
Preterm (<37 weeks)	71.3	70.8	70.7	69.5	69.5	67.7	69.6	68.4	70.0	71.1	69.0
<b>Birth weight</b>											
<1,500 grams	16.9	15.9	17.0	16.0	16.6	15.7	16.0	15.3	15.4	16.4	15.5
<1,000 grams	8.4	7.6	8.6	7.7	8.2	7.9	7.7	7.3	7.7	7.9	7.4
<b>Child's sex</b>											
Male	48.6	49.2	48.1	47.8	48.3	46.8	46.9	48.2	48.3	47.1	46.9
Female	51.4	50.8	51.9	52.2	51.7	53.2	53.1	51.8	51.7	52.9	53.1
<b>Plurality</b>											
Multiple births	23.9	25.2	24.3	23.4	24.6	23.9	25.4	23.0	22.7	21.6	20.2
<b>Caesarean delivery</b>	48.7	48.0	48.3	49.2	48.8	47.5	49.4	50.5	50.7	52.3	50.6
<b>Place of delivery</b>											
Hospital <sup>f</sup>	99.8	99.8	99.8	99.7	99.6	99.5	99.8	99.4	99.4	99.5	99.3
<b>Attendant at birth</b>											
Midwife <sup>g</sup>	2.0	2.2	9.5	10.6	11.0	12.3	11.9	13.2	12.4	11.9	12.3
<b>Previous live births</b>	61.2	60.0	61.4	60.6	61.0	60.2	61.4	60.3	59.8	60.4	57.6

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 corrections.

<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, 2012-2022  
(RURAL REGIONS)<sup>b</sup>**

Characteristic		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Number of births</b>		11,597	11,470	11,955	11,467	11,502	10,873	10,640	10,368	9,881	9,810	9,798
<b>Age of mother</b>	≤19 years	12.2	10.6	9.8	9.0	8.5	8.3	7.5	6.9	6.7	6.5	6.2
	≥30 years	29.3	29.4	31.3	30.9	33.4	33.9	34.7	36.2	37.6	38.1	40.1
<b>Marital status</b>	Unmarried	52.4	52.0	51.7	53.0	51.8	52.8	52.3	52.2	51.6	52.5	51.9
<b>Mother's education</b>	<9 years	2.2	2.4	2.3	1.9	1.8	1.9	1.9	1.7	1.8	1.5	1.9
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	48.7	49.1	49.8	47.7	49.3	47.5	47.9	48.7	49.3	51.2	49.0
	Hispanic	24.1	24.0	24.2	26.4	25.3	25.1	26.3	26.3	26.9	26.1	28.4
	Black	1.5	1.3	0.9	0.9	1.0	1.1	1.0	1.0	1.2	1.2	1.1
	American Indian	24.2	24.0	23.5	23.6	23.2	24.7	23.2	22.6	20.9	20.2	19.9
	Asian	1.5	1.7	1.5	1.4	1.2	1.6	1.6	1.4	1.7	1.4	1.5
<b>Prenatal care began</b>	1st Trimester	77.7	76.3	62.5	64.8	65.4	65.4	64.0	62.4	64.3	66.7	67.1
	3rd Trimester	4.3	4.1	6.3	6.7	7.3	7.3	7.1	8.0	7.6	7.1	6.6
	No care	1.5	2.2	1.9	3.0	3.0	3.1	4.1	4.1	3.3	3.1	3.1
<b>Prenatal visits</b>	1-4	5.7	5.6	6.6	6.2	7.0	7.4	7.0	7.3	6.9	6.7	5.6
	≥5	92.4	92.0	90.5	89.9	89.1	88.5	86.9	85.9	86.8	88.3	90.1
	≥9	73.9	73.8	71.1	69.5	69.1	68.4	67.3	66.6	66.4	68.3	69.5
	≥13	31.0	31.7	28.3	26.7	28.4	28.2	26.4	25.0	25.4	25.4	25.7
<b>Medical risks/complications<sup>d</sup></b>		52.0	51.8	<b>34.1</b>	<b>36.7</b>	37.8	39.8	41.3	43.1	45.2	46.2	47.4
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	9.1	8.7	8.3	8.9	9.1	9.6	9.3	9.4	9.5	10.1	9.7
<b>Birth weight</b>	<2,500 grams	7.3	7.3	7.0	7.8	8.0	8.1	7.8	7.7	7.7	8.2	8.3
	<1,500 grams	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.1	1.2
<b>Child's sex</b>	Male	51.2	51.3	51.1	51.0	50.3	51.6	51.9	50.7	51.4	51.5	50.7
	Female	48.8	48.7	48.9	49.0	49.7	48.4	48.1	49.3	48.6	48.5	49.3
<b>Plurality</b>	Multiple births	2.2	2.4	2.5	2.6	2.9	2.9	2.7	2.7	2.8	2.7	2.6
<b>Caesarean delivery</b>		25.7	25.8	25.2	25.0	26.2	24.6	26.1	25.8	25.7	26.0	26.0
<b>Place of delivery</b>	Hospital <sup>f</sup>	98.0	98.2	97.7	97.6	97.3	97.1	97.4	97.6	97.1	96.7	96.2
<b>Attendant at birth</b>	Midwife <sup>g</sup>	13.4	14.2	10.7	10.2	11.3	11.2	13.1	12.8	13.9	13.0	12.1
<b>Previous live births</b>	1 or more	63.3	64.8	66.0	65.8	66.3	67.1	66.5	65.8	65.3	65.7	65.1
<b>Number of LBW births</b>		850	836	835	891	916	884	827	799	758	803	816
<b>Age of mother</b>	≤19 years	13.9	9.7	11.3	10.3	10.6	8.6	9.1	5.0	7.1	6.0	7.8
	≥30 years	32.8	29.9	34.5	32.8	32.3	36.5	38.8	40.7	40.6	42.8	44.6
<b>Marital status</b>	Unmarried	59.1	54.2	53.9	57.1	54.3	56.3	60.5	55.9	57.9	56.8	56.6
<b>Mother's education</b>	<9 years	3.1	3.0	2.3	2.5	2.3	1.9	1.6	2.3	3.0	1.7	2.3
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	48.1	49.2	53.5	49.2	46.0	45.7	43.0	46.7	48.0	49.1	47.2
	Hispanic	24.2	24.4	22.0	24.2	27.4	24.5	27.7	25.3	27.7	27.4	28.3
	Black	2.2	1.4	2.2	1.5	1.6	0.9	2.2	1.6	2.0	1.4	1.7
	American Indian	24.0	22.8	20.7	23.2	23.5	26.6	24.8	25.2	21.0	19.7	20.7
	Asian	1.4	2.2	1.6	1.9	1.5	2.3	2.3	1.3	1.3	2.5	2.1
<b>Prenatal care began</b>	1st Trimester	76.5	74.0	62.5	59.5	61.6	61.4	58.2	55.3	59.4	61.0	60.3
	3rd Trimester	3.4	4.2	4.0	5.1	5.6	5.0	5.3	5.1	6.5	5.5	5.6
	No care	3.8	4.1	4.0	7.3	8.7	7.2	11.2	12.4	7.4	6.2	6.4
<b>Prenatal visits</b>	1-4	13.1	10.3	9.7	12.2	14.3	13.1	13.3	13.5	10.6	13.0	11.0
	≥5	82.0	84.7	84.9	77.6	74.7	77.0	70.9	71.1	76.8	77.5	79.8
	≥9	59.2	58.9	58.2	49.5	50.0	46.9	41.5	46.4	48.2	49.1	46.9
	≥13	22.9	23.3	19.2	17.8	17.6	18.8	14.1	17.8	17.4	17.1	15.6
<b>Medical risks/complications<sup>d</sup></b>		67.4	65.4	<b>58.0</b>	<b>59.9</b>	63.9	63.6	70.9	68.0	72.2	70.4	68.3
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	70.5	66.6	61.0	65.2	63.6	67.9	66.5	68.8	64.2	64.4	66.1
<b>Birth weight</b>	<1,500 grams	14.5	15.7	15.3	10.0	14.7	16.4	17.0	16.3	16.5	13.6	14.2
	<1,000 grams	6.2	6.3	7.1	5.7	6.7	6.7	8.6	6.6	8.2	6.1	5.5
<b>Child's sex</b>	Male	49.2	50.0	45.0	44.6	46.4	47.9	49.0	47.1	45.6	45.2	48.8
	Female	50.8	50.0	55.0	55.4	53.6	52.1	51.0	52.9	54.4	54.8	51.2
<b>Plurality</b>	Multiple births	17.9	19.5	20.2	17.5	19.8	16.5	19.2	20.9	20.3	19.2	17.6
<b>Caesarean delivery</b>		41.8	45.5	42.3	45.2	46.0	44.3	47.2	47.6	46.0	48.4	44.7
<b>Place of delivery</b>	Hospital <sup>f</sup>	98.9	99.2	99.0	98.4	98.1	98.0	98.8	99.5	98.8	99.1	98.4
<b>Attendant at birth</b>	Midwife <sup>g</sup>	5.2	5.7	9.2	9.7	10.7	11.9	11.4	10.6	13.9	12.0	8.9
<b>Previous live births</b>	1 or more	62.4	63.3	61.1	62.3	61.0	63.7	64.1	66.8	59.9	65.5	62.7

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 corrections.

<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, 2012-2022**  
**(WHITE NON-HISPANIC MOTHERS)**

Characteristic	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Number of births</b>	38,670	38,220	40,097	38,180	37,762	35,685	34,909	34,118	33,101	33,851	32,792
<b>Age of mother</b>											
≤19 Years	5.1	4.7	4.4	4.0	3.6	3.3	3.1	2.9	2.7	2.4	2.3
≥30 Years	42.9	43.2	45.1	45.6	47.0	48.0	49.2	49.3	51.1	52.2	52.7
<b>Marital status</b>											
Unmarried	30.4	30.3	31.1	31.5	31.3	30.7	31.1	31.3	31.1	30.5	30.2
<b>Mother's education</b>											
<9 years	1.0	0.8	0.7	0.8	0.6	0.8	0.7	0.7	0.7	0.7	0.8
<b>Prenatal care began</b>											
1st Trimester	88.4	87.4	71.7	73.2	74.7	74.6	75.7	75.8	75.1	77.3	76.9
3rd Trimester	1.8	2.0	3.5	3.7	3.9	4.2	4.3	4.8	4.7	4.5	4.1
No Care	0.6	0.7	1.1	1.3	1.4	1.6	1.6	1.5	1.5	1.7	1.7
<b>Prenatal visits</b>											
1-4	2.0	2.1	2.6	2.7	2.8	3.1	3.2	3.7	3.6	3.2	3.1
≥5	97.1	97.1	94.8	94.5	94.0	93.8	94.0	92.6	92.6	94.0	93.8
≥9	87.3	87.2	83.7	83.2	82.2	82.0	81.5	78.8	77.8	80.3	80.1
≥13	41.2	41.9	36.6	36.2	35.5	37.3	36.8	33.1	32.5	33.2	33.2
<b>Medical risks/ Complications<sup>b</sup></b>	50.6	55.1	<b>32.8</b>	<b>35.4</b>	37.9	39.7	40.3	43.3	45.4	46.4	46.9
<b>Gestational Age<sup>c</sup></b>											
Preterm (<37 weeks)	8.7	8.4	8.6	8.6	8.5	8.6	8.9	8.7	8.9	9.5	9.2
<b>Birth weight</b>											
<2,500 grams	6.5	6.4	6.8	6.6	6.8	7.0	7.1	6.8	6.8	7.2	7.2
<1,500 grams	1.0	1.0	1.1	1.0	1.1	1.0	1.1	1.0	1.0	1.1	1.0
<b>Child's sex</b>											
Male	51.3	51.3	51.3	51.6	50.9	50.7	51.5	51.7	50.6	51.5	50.9
Female	48.7	48.7	48.7	48.4	49.1	49.3	48.5	48.3	49.4	48.5	49.1
<b>Plurality</b>											
Multiple births	3.4	3.6	3.7	3.4	3.8	3.9	3.7	3.5	3.4	3.3	3.4
<b>Caesarean delivery</b>	28.7	28.4	28.8	28.1	28.0	27.2	27.4	27.8	28.3	28.5	28.2
<b>Place of delivery</b>											
Hospital <sup>d</sup>	97.4	97.6	97.4	97.2	96.9	96.9	96.8	97.0	96.4	95.8	95.5
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	6.0	6.5	12.6	14.1	15.1	15.6	15.4	16.4	16.1	15.9	16.1
<b>Previous live births</b>											
1 or more	59.6	60.5	60.9	61.5	62.2	61.7	62.0	61.3	60.6	61.1	59.3

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 corrections.

<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, 2012-2022  
(WHITE NON-HISPANIC MOTHERS)**

<b>Characteristic</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>2022</b>
<b>Number of LBW births</b>	2,505	2,459	2,715	2,538	2,585	2,507	2,463	2,331	2,248	2,449	2,355
<b>Age of mother</b>											
≤19 years	6.5	5.2	4.8	5.5	4.3	4.4	3.7	3.3	2.9	3.2	3.7
≥30 years	45.5	42.5	47.5	47.8	49.5	49.9	54.1	50.6	52.7	55.0	53.6
<b>Marital status</b>											
Unmarried	37.2	36.9	37.9	39.9	35.8	37.5	37.0	39.3	37.6	37.8	38.2
<b>Mother's education</b>											
<9 years	1.4	1.6	1.1	0.9	0.8	0.7	1.0	0.9	1.0	1.3	0.8
<b>Prenatal care began</b>											
1st Trimester	84.2	83.9	69.4	71.1	70.9	71.5	70.8	69.5	71.6	70.7	73.4
3rd Trimester	2.0	2.2	3.2	3.0	3.8	3.7	3.8	3.9	4.3	3.3	3.4
No Care	2.2	1.6	3.4	3.9	3.6	3.8	5.0	4.4	4.4	5.5	4.4
<b>Prenatal visits</b>											
1-4	6.1	5.6	6.0	7.8	7.0	8.0	8.7	8.6	9.1	8.1	8.1
≥5	91.1	92.4	88.7	85.3	86.0	85.5	82.8	83.0	82.9	84.2	85.3
≥9	71.4	70.6	67.4	64.3	63.5	61.1	57.3	56.6	55.9	57.0	57.8
≥13	31.7	33.0	28.4	24.0	25.3	25.5	24.8	21.4	20.3	21.1	20.8
<b>Medical risks/ Complications<sup>b</sup></b>	74.2	75.2	<b>60.4</b>	<b>58.6</b>	62.3	64.5	67.5	64.8	69.1	68.1	67.8
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	71.4	70.7	68.7	70.0	69.4	66.5	70.8	67.8	70.2	71.6	69.9
<b>Birth weight</b>											
<1,500 grams	16.1	15.3	16.4	8.8	15.6	13.6	15.1	14.2	14.9	14.5	14.4
<1,000 grams	7.6	6.9	7.3	6.3	7.0	6.1	7.2	5.8	7.1	6.3	6.0
<b>Child's sex</b>											
Male	46.7	49.3	47.0	46.7	45.9	45.8	46.7	48.8	45.4	46.6	45.7
Female	53.3	50.7	53.0	53.3	54.1	54.2	53.3	51.2	54.6	53.4	54.3
<b>Plurality</b>											
Multiple births	28.8	29.7	30.3	27.2	30.6	27.3	30.1	27.5	27.4	24.5	24.5
<b>Caesarean delivery</b>	52.5	49.5	52.2	52.2	52.3	49.3	51.1	51.6	53.5	53.4	51.8
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.4	99.6	99.5	99.3	99.2	99.0	99.4	99.3	99.0	99.3	99.2
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	1.3	1.7	11.4	11.9	12.8	13.3	14.0	14.5	16.1	14.8	13.9
<b>Previous live births</b>											
1 or more	57.9	56.8	58.8	56.5	59.1	57.1	59.9	57.4	57.3	58.4	54.8

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

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

<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, 2012-2022**  
**(HISPANIC OR LATINO MOTHERS)**

Characteristic	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Number of births</b>	33,146	33,075	33,715	34,264	33,874	33,191	32,995	32,575	31,859	32,288	33,584
<b>Age of mother</b>											
≤19 years	14.0	12.3	11.3	9.9	9.3	9.0	8.5	8.0	7.6	6.8	6.6
≥30 years	30.2	30.6	31.9	32.3	32.5	33.3	33.6	34.5	35.7	36.1	37.4
<b>Marital status</b>											
Unmarried	57.2	57.1	56.1	56.2	55.8	55.1	54.7	55.0	55.0	56.2	55.5
<b>Mother's education</b>											
<9 years	8.7	7.6	7.5	6.7	6.2	5.5	5.3	5.0	4.5	4.0	3.8
<b>Prenatal care began</b>											
1st Trimester	78.2	76.2	60.5	63.6	63.9	63.4	63.8	64.2	64.4	68.1	68.3
3rd Trimester	4.3	5.0	6.9	6.9	7.4	6.8	7.7	8.4	8.1	7.2	6.9
No Care	1.9	2.1	3.2	3.0	3.4	4.1	3.7	3.4	3.2	3.1	2.7
<b>Prenatal visits</b>											
1-4	4.5	4.8	5.4	5.3	5.6	5.3	6.1	6.7	6.3	5.6	5.4
≥5	93.3	93.0	90.2	90.9	89.9	88.8	89.0	88.5	88.9	90.7	90.6
≥9	77.0	77.0	73.5	73.0	72.0	71.6	70.3	68.6	68.8	71.8	71.8
≥13	29.1	29.0	26.2	26.1	25.8	26.8	26.9	26.7	27.1	28.6	28.1
<b>Medical risks/ Complications<sup>b</sup></b>	52.6	54.6	<b>34.2</b>	<b>40.0</b>	41.6	43.0	45.2	47.6	50.4	51.6	51.0
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	9.4	9.3	9.2	9.0	9.2	9.3	9.5	9.2	9.3	9.6	9.6
<b>Birth weight</b>											
<2,500 grams	6.8	6.6	6.7	6.9	7.1	7.0	7.2	7.0	7.0	7.6	7.3
<1,500 grams	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.1	1.1	1.3	1.1
<b>Child's sex</b>											
Male	51.2	51.3	51.3	50.9	50.9	50.6	51.1	50.7	51.0	50.9	51.2
Female	48.8	48.7	48.7	49.1	49.1	49.4	48.9	49.3	49.0	49.1	48.8
<b>Plurality</b>											
Multiple births	2.1	2.4	2.2	2.4	2.5	2.6	2.8	2.2	2.5	2.6	2.7
<b>Caesarean delivery</b>	26.0	26.7	26.1	26.3	26.3	25.6	26.7	26.9	27.3	27.9	28.2
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.6	99.6	99.5	99.5	99.4	99.3	99.3	99.3	99.2	99.0	98.9
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	6.1	5.9	7.4	9.8	10.9	11.8	11.4	12.1	11.5	10.7	11.4
<b>Previous live births</b>											
1 or more	66.2	67.0	67.4	67.1	67.7	66.8	65.9	65.7	64.8	64.0	63.5

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 corrections.

<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, 2012-2022**  
**(HISPANIC OR LATINO MOTHERS)**

Characteristic	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Number of LBW births</b>	2,256	2,199	2,247	2,364	2,400	2,339	2,378	2,276	2,215	2,455	2,452
<b>Age of mother</b>											
≤19 years	15.0	12.9	11.7	10.9	9.9	10.0	9.3	8.1	8.2	7.2	7.3
≥30 years	32.3	31.7	33.0	35.4	35.0	34.7	37.2	39.9	39.9	41.8	41.4
<b>Marital status</b>											
Unmarried	61.9	61.5	58.1	58.5	58.4	58.4	58.8	56.0	58.1	59.7	58.7
<b>Mother's education</b>											
<9 years	8.5	7.2	7.4	6.4	7.0	5.6	5.1	5.1	5.1	3.7	4.1
<b>Prenatal care began</b>											
1st Trimester	76.5	74.8	59.3	60.3	62.2	61.9	60.6	62.6	61.8	65.3	65.6
3rd Trimester	3.2	3.8	4.9	4.4	5.0	4.9	5.6	6.1	5.6	5.1	5.1
No Care	3.7	4.2	5.8	5.6	6.1	7.1	7.4	7.3	7.1	6.2	5.3
<b>Prenatal visits</b>											
1-4	10.6	9.5	10.5	9.5	10.7	10.7	10.8	13.3	12.8	10.4	11.3
≥5	85.4	85.9	82.2	83.4	80.7	79.9	78.8	77.3	78.1	82.1	81.5
≥9	59.9	63.7	55.2	54.0	52.2	52.5	48.9	49.6	48.0	51.1	51.2
≥13	21.9	24.1	16.3	15.7	16.3	17.2	16.5	17.4	16.7	18.7	17.9
<b>Medical risks</b>											
<b>Complications<sup>b</sup></b>	73.8	70.3	<b>57.1</b>	<b>61.1</b>	61.0	65.2	69.2	70.7	71.2	70.4	70.8
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	72.0	71.5	72.0	69.4	68.6	69.9	70.0	69.7	69.4	69.5	69.5
<b>Birth weight</b>											
<1,500 grams	16.8	16.7	16.6	16.2	16.3	17.9	17.4	15.9	15.3	16.5	15.5
<1,000 grams	8.2	8.0	8.9	7.7	8.1	9.1	8.3	7.9	7.9	8.7	7.5
<b>Child's sex</b>											
Male	51.1	49.9	49.3	48.3	50.5	48.2	49.0	48.5	50.1	47.3	48.1
Female	48.9	50.1	50.7	51.7	49.5	51.8	51.0	51.5	49.9	52.7	51.9
<b>Plurality</b>											
Multiple births	18.5	21.3	18.0	18.4	19.5	20.9	21.6	19.1	19.4	19.4	18.0
<b>Caesarean delivery</b>	43.3	46.5	42.9	45.3	45.4	44.5	48.0	49.2	46.0	50.6	48.4
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.8	99.8	99.9	99.7	99.5	99.5	100.0	99.6	99.5	99.7	99.3
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	3.0	2.5	7.0	9.1	9.6	11.3	10.3	11.6	10.1	9.2	10.5
<b>Previous live births</b>											
1 or more	63.9	63.4	63.7	64.0	63.1	63.1	62.8	63.4	60.3	62.3	59.3

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 corrections.

<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, 2012-2022**  
**(BLACK OR AFRICAN AMERICAN MOTHERS)**

Characteristic	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Number of births</b>	4,715	4,726	4,522	4,361	4,388	4,595	4,655	4,865	4,766	4,795	4,847
<b>Age of mother</b>											
≤19 years	11.5	10.7	8.7	7.2	7.2	7.2	5.8	5.8	5.4	4.5	5.3
≥30 years	30.2	30.6	34.1	36.0	35.0	37.1	39.0	41.4	41.8	43.4	45.7
<b>Marital status</b>											
Unmarried	64.8	63.7	62.5	63.2	61.3	60.6	60.6	62.7	62.9	64.3	61.6
<b>Mother's education</b>											
<9 years	4.3	3.7	3.3	4.1	4.3	4.7	3.7	4.4	3.6	3.5	3.8
<b>Prenatal care began</b>											
1st Trimester	79.9	78.2	61.4	62.2	62.8	61.4	62.4	59.8	60.3	65.1	65.6
3rd Trimester	3.4	4.5	7.7	6.9	7.9	6.5	7.6	8.3	8.1	7.3	6.4
No Care	1.1	1.3	2.8	2.5	2.2	3.3	3.0	3.0	2.7	2.6	2.9
<b>Prenatal visits</b>											
1-4	4.5	4.7	6.2	6.4	6.3	5.6	6.4	7.2	7.3	6.1	6.5
≥5	94.1	93.8	89.7	89.9	89.6	88.2	88.8	87.7	87.5	90.5	89.1
≥9	78.5	79.1	72.1	71.5	70.2	69.2	68.2	64.5	65.0	69.2	68.5
≥13	32.7	31.0	24.7	25.4	25.7	26.3	28.3	25.8	27.3	29.3	27.7
<b>Medical risks</b>											
<b>Complications<sup>b</sup></b>	56.6	57.2	<b>36.0</b>	<b>44.3</b>	44.3	45.8	49.6	53.6	54.1	55.3	54.4
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	11.9	11.8	12.1	12.2	12.4	12.4	12.4	13.2	13.1	14.1	12.7
<b>Birth weight</b>											
<2,500 grams	11.7	11.1	11.9	12.3	12.0	12.4	12.3	12.3	12.8	13.6	12.9
<1,500 grams	2.3	2.0	2.5	2.3	2.4	2.3	2.1	2.4	2.6	2.6	2.4
<b>Child's sex</b>											
Male	50.5	51.8	51.9	51.5	50.7	51.8	49.0	51.7	50.7	50.0	50.8
Female	49.5	48.2	48.1	48.5	49.3	48.2	51.0	48.3	49.3	50.0	49.2
<b>Plurality</b>											
Multiple births	4.1	3.7	4.7	3.9	3.3	4.0	4.7	4.4	4.2	4.2	4.2
<b>Caesarean delivery</b>	31.9	31.4	33.0	32.8	32.4	30.8	33.7	34.1	34.6	34.2	32.3
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.6	99.3	99.5	99.6	99.1	99.0	99.1	98.8	98.0	97.7	97.5
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	3.5	3.9	8.8	11.7	12.0	13.2	12.0	12.1	12.0	11.5	11.3
<b>Previous live births</b>											
1 or more	63.8	64.6	66.9	66.2	66.2	67.1	67.4	68.4	67.4	67.1	66.6

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 corrections.

<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, 2012-2022**  
**(BLACK OR AFRICAN AMERICAN MOTHERS)**

Characteristic	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Number of LBW births</b>	551	523	536	535	525	572	573	596	608	653	627
<b>Age of mother</b>											
≤19 years	10.2	12.8	9.0	6.9	9.1	7.9	7.5	7.6	7.1	7.5	6.7
≥30 years	32.3	33.8	35.8	38.7	33.9	38.6	40.1	40.4	42.6	45.2	47.7
<b>Marital status</b>											
Unmarried	69.0	72.8	67.0	64.9	64.0	64.2	64.9	67.6	68.4	69.8	70.2
<b>Mother's education</b>											
<9 years	2.9	3.1	2.4	3.0	4.6	3.0	2.8	3.4	1.8	4.0	2.6
<b>Prenatal care began</b>											
1st Trimester	78.8	77.8	59.1	63.9	62.5	61.0	60.0	57.2	60.7	63.4	64.3
3rd Trimester	3.4	3.3	4.7	4.5	5.1	2.8	5.4	4.0	6.3	4.9	4.5
No Care	2.4	3.4	6.2	5.0	4.6	6.5	7.2	7.7	4.9	5.7	6.5
<b>Prenatal visits</b>											
1-4	10.3	8.6	11.2	12.9	10.9	9.3	10.8	13.1	12.8	12.4	12.6
≥5	86.0	87.2	81.2	80.4	81.0	80.6	79.1	75.3	79.9	81.2	78.6
≥9	64.4	66.7	55.2	55.7	55.6	51.6	53.9	46.8	50.8	53.3	52.8
≥13	27.6	25.2	20.1	22.2	16.0	20.1	20.9	17.1	17.9	20.1	20.4
<b>Medical risks</b>											
<b>Complications<sup>b</sup></b>	68.4	70.0	<b>56.7</b>	<b>57.9</b>	59.4	61.0	68.1	67.8	69.9	70.6	71.5
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	65.7	66.9	68.3	65.0	68.2	65.2	62.8	68.3	67.3	69.8	62.4
<b>Birth weight</b>											
<1,500 grams	20.0	18.0	21.5	18.5	20.0	18.4	16.9	19.8	20.4	19.3	18.2
<1,000 grams	10.3	10.3	12.9	10.5	11.4	11.4	9.2	10.6	11.3	10.1	9.4
<b>Child's sex</b>											
Male	45.7	47.2	45.9	46.9	46.1	44.9	41.7	43.5	47.2	45.6	44.7
Female	54.3	52.8	54.1	53.1	53.9	55.1	58.3	56.5	52.8	54.4	55.3
<b>Plurality</b>											
Multiple births	21.2	21.4	22.2	22.8	15.6	20.6	22.7	24.0	19.9	21.9	17.9
<b>Caesarean delivery</b>	45.6	42.8	45.9	47.9	47.6	44.8	49.7	50.8	50.3	51.9	49.4
<b>Place of delivery</b>											
Hospital <sup>d</sup>	100.0	99.0	99.8	100.0	99.6	99.5	99.7	99.2	99.3	98.9	99.2
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	0.9	1.9	8.6	10.3	11.2	12.2	12.0	12.4	11.0	11.3	12.0
<b>Previous live births</b>											
1 or more	65.2	61.8	66.6	64.9	60.6	68.9	64.6	65.4	67.3	66.2	63.5

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 corrections.

<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, 2012-2022**  
**(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)**

Characteristic	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Number of births</b>	5,569	5,476	5,145	4,984	5,030	4,866	4,709	4,462	4,087	3,906	4,010
<b>Age of mother</b>											
≤19 years	16.0	14.2	11.7	11.4	10.7	10.7	9.8	9.2	8.4	8.8	7.3
≥30 years	25.2	26.6	26.7	28.9	31.3	31.0	34.4	34.6	36.7	37.9	41.1
<b>Marital status</b>											
Unmarried	78.5	79.2	78.9	79.6	78.1	77.9	78.9	78.4	78.7	79.5	78.2
<b>Mother's education</b>											
<9 years	2.5	2.4	2.2	2.1	1.9	1.7	1.9	1.6	1.4	1.6	1.2
<b>Prenatal care began</b>											
1st Trimester	68.2	68.7	58.4	58.5	60.7	59.4	56.5	57.4	57.1	57.7	57.1
3rd Trimester	7.0	6.1	7.5	8.4	8.2	8.4	9.4	9.0	10.8	10.2	9.2
No Care	2.0	2.4	2.9	4.3	4.0	4.1	5.1	5.3	4.3	5.4	4.4
<b>Prenatal visits</b>											
1-4	9.1	9.5	10.5	10.4	11.0	11.5	11.2	12.0	12.1	11.4	9.7
≥5	88.4	87.7	85.0	84.2	83.9	83.0	81.5	80.1	80.8	80.4	81.4
≥9	64.0	63.7	59.3	60.0	59.9	58.8	55.5	55.7	54.0	55.7	56.9
≥13	20.7	21.3	18.2	18.7	19.0	19.9	18.4	18.6	19.6	20.4	19.9
<b>Medical risks/ Complications<sup>b</sup></b>	60.4	61.7	<b>45.9</b>	<b>52.4</b>	53.5	56.1	59.2	60.4	60.6	64.3	66.6
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	9.7	9.7	8.2	9.6	9.9	10.9	10.4	10.6	10.8	12.4	12.5
<b>Birth weight</b>											
<2,500 grams	6.7	7.2	6.1	7.3	7.2	7.7	7.9	7.9	7.2	7.8	8.7
<1,500 grams	1.1	1.0	0.9	1.3	1.3	1.3	1.4	1.3	1.2	1.3	1.6
<b>Child's sex</b>											
Male	50.5	51.6	49.7	50.8	50.4	51.6	52.0	51.3	51.8	51.0	50.4
Female	49.5	48.4	50.3	49.2	49.6	48.4	48.0	48.7	48.2	49.0	49.6
<b>Plurality</b>											
Multiple births	1.6	1.8	1.3	1.8	2.2	2.2	2.0	2.1	1.7	2.2	2.1
<b>Caesarean delivery</b>	23.8	24.0	22.7	22.6	23.5	24.4	25.2	24.6	26.8	26.2	27.1
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.7	99.7	99.7	99.4	99.5	99.5	99.2	99.5	99.4	99.5	99.4
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	27.8	27.6	10.6	9.1	9.8	10.0	10.0	10.0	11.9	11.0	9.7
<b>Previous live births</b>											
1 or more	67.6	68.5	70.0	71.0	71.4	70.5	71.2	70.5	69.9	70.5	71.6

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 corrections.

<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, 2012-2022**  
**(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)**

Characteristic	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Number of LBW births</b>	372	393	315	365	363	376	373	353	294	306	349
<b>Age of mother</b>											
≤19 years	18.0	10.2	10.8	10.1	8.5	10.4	9.4	6.2	8.5	5.9	6.0
≤30 years	33.1	29.5	30.8	34.5	35.5	38.0	42.9	41.6	38.8	51.6	50.4
<b>Marital status</b>											
Unmarried	80.9	82.2	78.4	81.9	75.2	79.8	80.7	79.9	83.0	79.1	79.1
<b>Mother's education</b>											
<9 years	3.2	5.1	2.9	3.6	1.1	2.9	2.4	2.3	2.0	2.3	2.9
<b>Prenatal care began</b>											
1st Trimester	69.1	66.9	46.7	48.5	54.0	54.0	45.0	47.3	50.0	47.1	55.3
3rd Trimester	4.3	8.4	5.1	6.6	6.3	4.3	5.9	4.2	9.2	10.5	5.4
No Care	5.9	4.3	8.6	13.7	9.9	10.1	17.2	19.3	8.2	9.8	10.0
<b>Prenatal visits</b>											
1-4	15.1	17.6	15.6	15.3	18.5	15.2	17.7	18.7	22.8	18.6	14.9
≥5	78.2	76.8	72.7	66.6	69.4	70.5	59.5	58.4	63.9	64.1	68.5
≥9	51.6	50.6	40.6	40.5	41.3	40.2	28.7	34.0	39.8	36.3	39.5
≥13	16.4	15.3	10.2	11.2	12.9	14.9	8.8	10.2	14.3	14.7	12.3
<b>Medical risks/ Complications<sup>b</sup></b>	70.2	71.2	<b>65.7</b>	<b>68.5</b>	70.8	71.3	77.2	85.0	80.6	85.3	85.1
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	79.0	70.7	65.1	69.9	71.1	72.1	68.1	70.3	69.4	72.9	75.1
<b>Birth weight</b>											
<1,500 grams	16.7	13.7	14.6	18.1	17.6	16.8	17.4	16.1	17.3	16.7	18.6
<1,000 grams	8.9	4.6	7.9	8.5	7.7	6.4	8.3	6.5	8.2	6.5	8.9
<b>Child's sex</b>											
Male	49.2	51.4	44.4	45.8	52.1	50.3	49.9	43.6	51.0	44.8	51.9
Female	50.8	48.6	55.6	54.2	47.9	49.7	50.1	56.4	49.0	55.2	48.1
<b>Plurality</b>											
Multiple births	15.6	12.7	9.8	13.4	17.4	10.6	13.1	13.9	12.9	14.4	10.9
<b>Caesarean delivery</b>	47.3	44.3	41.9	43.8	43.3	47.3	42.9	49.0	53.1	52.6	49.6
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.7	100.0	100.0	98.6	99.2	99.2	98.4	99.7	100.0	99.7	98.6
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	8.9	11.5	10.2	7.9	8.5	11.4	8.6	8.8	7.5	8.8	7.4
<b>Previous live births</b>											
1 or more	69.6	68.7	69.8	70.4	69.7	68.4	71.3	72.5	66.7	70.6	73.4

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 corrections.

<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, 2012-2022**  
**(ASIAN OR PACIFIC ISLANDER MOTHERS)**

Characteristic	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Number of births</b>	3,625	3,466	3,169	3,235	3,350	3,327	3,271	3,163	2,968	3,017	3,122
<b>Age of mother</b>											
≤19 years	2.2	2.3	1.8	1.9	1.5	1.7	1.3	1.3	1.0	0.7	1.0
≥30 years	57.3	59.2	60.4	60.5	60.8	61.9	65.1	65.6	64.9	68.7	69.2
<b>Marital status</b>											
Unmarried	17.3	16.0	15.2	14.3	15.4	14.6	14.8	14.8	16.4	17.6	16.4
<b>Mother's education</b>											
<9 years	3.1	2.7	3.0	3.1	3.0	2.9	3.0	2.3	2.3	1.8	2.0
<b>Prenatal care began</b>											
1st Trimester	87.1	86.4	70.5	71.8	73.2	72.2	72.5	73.2	74.3	77.7	75.6
3rd Trimester	2.0	2.9	4.5	5.0	4.3	4.7	5.0	6.5	5.2	4.9	4.4
No Care	0.7	0.7	1.4	1.2	1.3	1.9	1.9	1.3	1.7	1.6	1.6
<b>Prenatal visits</b>											
1-4	2.4	2.6	2.6	3.6	3.1	2.8	3.3	3.9	3.3	3.3	3.6
≥5	96.8	96.6	94.5	93.9	93.7	93.9	93.6	93.2	93.6	94.2	93.7
≥9	86.2	85.6	82.3	80.6	79.8	81.2	79.0	77.3	77.0	79.2	79.3
≥13	37.2	39.2	33.7	31.6	29.9	34.7	33.5	32.2	31.7	33.4	32.5
<b>Medical risks/ Complications<sup>b</sup></b>	52.9	57.4	<b>37.9</b>	<b>42.2</b>	44.4	47.0	47.1	49.4	51.2	51.7	52.0
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	8.4	8.9	8.0	9.4	8.7	9.6	10.0	9.5	9.3	10.3	10.5
<b>Birth weight</b>											
<2,500 grams	7.2	7.9	8.1	9.0	9.3	9.5	9.8	8.6	9.6	9.2	10.6
<1,500 grams	0.8	1.1	1.2	1.2	1.4	1.1	1.2	1.0	1.1	1.4	1.3
<b>Child's sex</b>											
Male	52.1	51.4	51.5	51.5	51.7	51.3	51.2	51.9	51.2	52.3	50.5
Female	47.9	48.6	48.5	48.5	48.3	48.7	48.8	48.1	48.8	47.7	49.5
<b>Plurality</b>											
Multiple births	2.5	3.2	3.2	3.3	3.7	3.4	3.0	3.2	2.6	2.5	2.6
<b>Caesarean delivery</b>	32.1	33.2	32.4	34.0	32.5	32.3	30.9	31.0	33.6	32.8	34.3
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.2	99.1	99.3	99.4	99.3	99.3	99.1	98.8	98.9	98.6	98.9
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	4.0	3.3	10.0	10.4	11.1	11.8	11.4	13.5	14.5	13.5	13.5
<b>Previous live births</b>											
1 or more	55.5	56.2	53.4	54.0	54.1	56.6	56.3	56.7	56.2	56.7	56.9

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

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

<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, 2012-2022**  
**(ASIAN OR PACIFIC ISLANDER MOTHERS)**

Characteristic	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Number of LBW births</b>	262	275	256	291	313	315	319	273	285	277	330
<b>Age of mother</b>											
≤19 years	5.0	1.5	1.2	1.7	1.0	1.9	2.2	1.8	0.7	1.4	0.9
≤30 years	64.9	66.2	64.1	61.5	63.3	63.5	69.3	66.7	69.5	70.8	70.0
<b>Marital status</b>											
Unmarried	18.3	12.4	14.1	15.1	13.7	17.1	17.9	13.2	16.5	17.7	18.2
<b>Mother's education</b>											
<9 years	3.8	3.6	4.3	2.7	3.2	2.9	3.1	1.5	3.5	1.8	1.8
<b>Prenatal care began</b>											
1st Trimester	87.8	86.9	70.3	72.9	74.4	74.0	70.2	76.2	70.2	76.9	77.0
3rd Trimester	0.4	3.6	4.7	3.8	2.9	2.5	4.1	5.1	3.5	1.8	3.3
No Care	0.8	0.7	3.5	2.7	2.9	2.5	4.7	1.8	2.5	3.6	3.0
<b>Prenatal visits</b>											
1-4	2.3	6.2	4.7	8.6	7.0	4.4	7.2	5.9	6.0	7.9	6.1
≥5	96.9	93.1	88.7	86.9	87.2	92.1	85.9	91.2	89.5	87.4	89.4
≥9	78.6	73.5	66.8	64.6	67.7	70.5	58.9	64.8	61.8	62.8	61.8
≥13	32.8	31.6	25.4	29.6	22.0	28.3	22.3	29.7	21.1	23.1	19.7
<b>Medical risks/ Complications<sup>b</sup></b>	72.5	73.8	<b>54.7</b>	<b>56.0</b>	61.0	67.9	64.9	63.0	66.0	65.7	68.2
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	63.0	61.1	60.2	60.1	60.7	61.9	63.9	63.0	65.6	62.5	59.4
<b>Birth weight</b>											
<1,500 grams	11.5	13.5	15.2	13.1	15.3	11.7	11.9	11.7	11.2	14.8	12.4
<1,000 grams	5.3	6.2	6.6	6.5	8.6	6.0	5.3	6.2	4.9	6.9	6.7
<b>Child's sex</b>											
Male	52.7	46.5	49.2	48.8	45.4	46.0	44.2	53.5	49.5	49.1	49.1
Female	47.3	53.5	50.8	51.2	54.6	54.0	55.8	46.5	50.5	50.9	50.9
<b>Plurality</b>											
Multiple births	20.2	23.6	24.2	25.1	24.0	20.3	20.4	20.9	21.1	15.5	13.6
<b>Caesarean delivery</b>	44.3	53.1	47.7	51.5	47.0	50.8	48.3	44.7	51.2	46.6	46.4
<b>Place of delivery</b>											
Hospital <sup>d</sup>	100.0	100.0	100.0	100.0	99.7	99.7	99.7	98.5	99.6	99.6	99.7
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	2.7	2.2	12.1	12.0	8.6	12.4	9.4	15.4	13.3	15.2	11.8
<b>Previous live births</b>											
1 or more	53.1	56.4	46.9	54.6	50.8	47.6	52.7	52.0	53.0	51.6	50.6

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 corrections.

<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, 2012-2022**

Weight in grams	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Under 1,000, total</b>	480	433	509	448	492	472	476	419	441	472	438
<b>Single</b>	383	332	384	358	380	375	383	319	341	383	374
<b>Plural</b>	97	101	125	90	112	97	93	100	100	89	64
<b>1,000-1,499, total</b>	506	494	509	523	519	492	509	483	438	508	500
<b>Single</b>	387	341	379	386	395	369	358	361	327	390	401
<b>Plural</b>	119	153	130	137	124	123	151	122	111	118	99
<b>1,500-1,999, total</b>	1,197	1,152	1,156	1,133	1,166	1,105	1,257	1,134	1,073	1,196	1,141
<b>Single</b>	814	830	803	793	808	784	837	795	758	848	820
<b>Plural</b>	383	322	353	340	358	321	420	339	315	348	321
<b>2,000-2,499, total</b>	3,763	3,770	3,895	3,988	4,009	4,040	3,864	3,793	3,698	3,964	4,034
<b>Single</b>	2,994	2,920	3,063	3,186	3,124	3,186	3,028	3,030	2,960	3,213	3,305
<b>Plural</b>	769	850	832	802	885	854	836	763	738	751	729
<b>2,500-3,999, total</b>	73,096	72,494	73,627	72,240	71,613	69,200	68,157	67,354	65,280	65,815	66,525
<b>Single</b>	72,085	71,377	72,449	71,109	70,450	67,940	67,032	66,337	64,270	64,809	65,373
<b>Plural</b>	1,011	1,117	1,178	1,131	1,163	1,260	1,125	1,017	1,010	1,006	1,152
<b>4,000 and over, total</b>	6,680†	6,540†	6,900†	6,630†	6,570†	6,310†	6,240†	5,950†	5,790†	5,842	5,660†
<b>Single</b>	6,674	6,537	6,900	6,633	6,569	6,310	6,234	5,951	5,787	5,842	5,658
<b>Plural</b>	*	*	*	*	*	*	*	*	*	0	*
<b>All weights, total<sup>a</sup></b>	85,725	84,963	86,648	85,024	84,404	81,664	80,539	79,183	76,781	77,857	78,355
<b>Single</b>	83,342	82,415	84,014	82,501	81,752	79,005	77,909	76,837	74,501	75,543	75,985
<b>Plural</b>	2,380†	2,550†	2,630†	2,518	2,647	2,657	2,630	2,343	2,280	2,313	2,369

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, 2012-2022**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<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
<b>2022</b>	6,564	5,992	6,470	5,951	5,998	6,245	6,720	7,078	6,834	6,639	6,821	7,043	78,355
<b>Percent</b>	8.4	7.6	8.3	7.6	7.7	8.0	8.6	9.0	8.7	8.5	8.7	9.0	100.0

**TABLE 1B-18  
BIRTHS BY DAY AND MONTH OF OCCURRENCE, ARIZONA RESIDENTS, 2022**

TOTAL	Month of birth												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
<b>TOTAL</b>	78,355	6,564	5,992	6,470	5,951	5,998	6,245	6,720	7,078	6,834	6,639	6,821	7,043
<b>Day of birth</b>	<b>1</b>	165	223	213	237	151	212	219	225	232	199	253	284
	<b>2</b>	170	267	242	174	190	229	210	217	252	166	259	284
	<b>3</b>	191	228	255	160	185	267	168	240	230	209	272	188
	<b>4</b>	222	226	228	205	201	186	172	254	187	252	243	168
	<b>5</b>	225	189	186	210	192	164	195	223	205	231	195	237
	<b>6</b>	251	163	167	226	204	204	241	203	219	242	183	251
	<b>7</b>	234	228	225	214	160	224	261	178	245	207	220	239
	<b>8</b>	174	233	218	219	132	242	240	217	256	212	246	236
	<b>9</b>	190	212	221	192	200	230	190	259	260	140	229	240
	<b>10</b>	238	216	240	175	210	198	184	236	221	236	236	188
	<b>11</b>	241	235	220	198	221	180	226	262	199	227	253	182
	<b>12</b>	215	181	185	225	248	174	211	251	246	220	203	243
	<b>13</b>	210	176	159	224	209	188	222	227	223	229	177	255
	<b>14</b>	227	217	208	215	174	224	237	197	249	214	236	230
	<b>15</b>	169	236	220	196	157	204	260	245	253	207	246	239
	<b>16</b>	188	250	225	142	180	229	176	244	237	173	259	257
	<b>17</b>	235	224	251	143	191	215	174	246	194	220	231	204
	<b>18</b>	221	229	213	185	227	177	231	232	179	215	239	179
	<b>19</b>	244	176	210	217	223	146	228	243	247	224	226	231
	<b>20</b>	236	184	154	221	224	217	262	207	243	256	191	241
	<b>21</b>	228	195	181	211	188	208	230	191	246	231	234	234
	<b>22</b>	197	254	198	223	164	207	247	239	262	193	269	255
	<b>23</b>	184	234	208	164	195	238	189	238	257	166	257	247
	<b>24</b>	204	214	219	136	210	219	206	238	203	229	172	198
	<b>25</b>	227	223	225	216	216	201	216	247	166	243	179	142
	<b>26</b>	251	211	162	198	224	176	236	236	216	234	187	180
	<b>27</b>	236	158	168	217	203	217	252	205	211	246	190	237
	<b>28</b>	223	210	232	220	179	226	233	178	249	255	243	286
	<b>29</b>	183		198	205	144	213	237	230	218	195	259	250
	<b>30</b>	175		228	183	168	230	185	248	229	159	234	245
	<b>31</b>	210		211		228		182	222		209		193

**TABLE 1B-19  
LIVE BIRTHS BY MOTHER'S AGE AND FATHER'S AGE, ARIZONA, 2022**

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	0†
15-17	6	186	72	15	*	0	0	0	0	0	280†
18-19	0	187	716	321	19	*	*	*	0	0	1,250†
20-24	*	80	992	6,855	1,239	209	50	7	0	0	9,430†
25-29	0	*	138	4,111	11,067	2,063	301	44	*	0	17,730†
30-34	0	*	42	1,017	6,618	10,697	1,720	149	*	0	20,250†
35-39	0	0	15	288	1,612	5,650	4,787	497	10	*	12,860
40-44	0	0	8	112	447	1,407	2,285	943	49	0	5,251
45-49	0	0	*	41	129	333	611	397	57	0	1,570†
50-54	0	0	*	20	62	133	181	125	24	*	550†
55+	0	0	0	10	36	69	83	61	14	*	274
Unknown	25	394	702	2,548	2,334	1,799	844	230	30	0	8,906
<b>TOTAL</b>	<b>30†</b>	<b>850†</b>	<b>2,690†</b>	<b>15,338</b>	<b>23,570†</b>	<b>22,360†</b>	<b>10,860†</b>	<b>2,450†</b>	<b>190†</b>	<b>0†</b>	<b>78,355</b>

**TABLE 1B-20  
LIVE BIRTHS BY MOTHER'S RACE/ETHNICITY AND FATHER'S RACE/ETHNICITY, ARIZONA, 2022**

Father's race/ethnicity	Mother's race/ethnicity					TOTAL
	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	
White non-Hispanic	26,031	9,771	1,620	1,201	873	39,496
Hispanic or Latino	4,855	22,123	297	598	277	28,150
Black or African American	1,209	1,100	2,871	83	99	5,362
American Indian or Alaska Native	239	327	27	2,103	15	2,711
Asian or Pacific Islander	458	263	32	25	1,858	2,636
<b>TOTAL</b>	<b>32,792</b>	<b>33,584</b>	<b>4,847</b>	<b>4,010</b>	<b>3,122</b>	<b>78,355</b>

**TABLE 1B-21  
LIVE BIRTHS BY MOTHER'S AND FATHER'S EDUCATION, ARIZONA, 2022**

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	704	434	567	188	140	76	22	*	2,136
Some High School	303	2,838	2,805	1,201	344	268	63	16	7,838
High School/ GED	248	2,155	10,164	4,504	1,640	1,765	466	34	20,976
Some College	88	593	2,935	5,652	1,584	2,658	920	25	14,455
Associate Degree	49	160	857	1,220	1,182	1,371	466	9	5,314
Bachelor's Degree	23	116	967	1,716	983	5,738	2,528	18	12,089
Postgraduate Education	14	37	276	452	377	2,403	2,664	10	6,233
Unknown	402	2,423	3,500	1,652	492	379	138	328	9,314
<b>TOTAL</b>	<b>1,831</b>	<b>8,756</b>	<b>22,071</b>	<b>16,585</b>	<b>6,742</b>	<b>14,658</b>	<b>7,267</b>	<b>445</b>	<b>78,355</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; 445 cases were missing mother's education and 9,314 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, 2022**

			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>Married</b>	Count	42,380†	0	8	244	4,408	13,106	15,192	7,636	1,663	123	*
		Percent	54.1%	0.0%	0.9%	9.1%	28.7%	55.6%	67.9%	70.3%	67.8%	64.7%	**
	<b>Unmarried</b>	Count	35,180†	33	846	2,435	10,842	10,233	6,931	3,079	740	43	*
		Percent	44.9%	100.0%	99.1%	90.6%	70.7%	43.4%	31.0%	28.3%	30.2%	22.6%	**
	<b>Unknown</b>	Count	790†	0	0	10	88	226	241	149	51	24	*
		Percent	1.0%	0.0%	0.0%	0.4%	0.6%	1.0%	1.1%	1.4%	2.1%	12.6%	**
	<b>TOTAL</b>	Count	78,360†	33	854	2,689	15,338	23,565	22,364	10,864	2,454	190	*
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**
<b>White non- Hispanic</b>	<b>Married</b>	Count	22,550†	0	*	84	2,055	6,864	8,495	4,124	869	56	*
		Percent	68.8%	0.0%	**	13.6%	41.7%	70.0%	78.8%	78.5%	74.7%	56.6%	**
	<b>Unmarried</b>	Count	9,900†	*	146	529	2,834	2,862	2,175	1,067	264	20	*
		Percent	30.2%	**	98.6%	85.7%	57.6%	29.2%	20.2%	20.3%	22.7%	20.2%	**
	<b>Unknown</b>	Count	340†	0	0	*	35	78	108	63	30	23	*
		Percent	1.0%	0.0%	0.0%	**	0.7%	0.8%	1.0%	1.2%	2.6%	23.2%	**
	<b>TOTAL</b>	Count	32,790†	*	148	617	4,924	9,804	10,778	5,254	1,163	99	*
		Percent	100.0%	**	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**
<b>Hispanic or Latino</b>	<b>Married</b>	Count	14,590	0	6	146	1,986	4,988	4,665	2,227	526	46	0
		Percent	43.4%	0.0%	1.1%	8.9%	24.1%	47.2%	58.3%	61.0%	62.0%	76.7%	0.0%
	<b>Unmarried</b>	Count	18,648	21	564	1,485	6,200	5,460	3,225	1,371	308	14	0
		Percent	55.5%	100.0%	98.9%	90.8%	75.3%	51.7%	40.3%	37.6%	36.3%	23.3%	0.0%
	<b>Unknown</b>	Count	350†	0	0	*	50	119	105	53	14	0	0
		Percent	1.0%	0.0%	0.0%	**	0.6%	1.1%	1.3%	1.5%	1.7%	0.0%	0.0%
	<b>TOTAL</b>	Count	33,584	21	570	1,636	8,236	10,567	7,995	3,651	848	60	0
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
<b>Black or African American</b>	<b>Married</b>	Count	1,809	0	0	6	162	480	659	397	95	10	0
		Percent	37.3%	0.0%	0.0%	3.1%	16.4%	34.6%	48.3%	59.0%	56.9%	76.9%	0.0%
	<b>Unmarried</b>	Count	2,990†	*	60	186	822	890	691	263	70	*	0
		Percent	61.6%	**	100.0%	96.4%	83.5%	64.1%	50.7%	39.1%	41.9%	**	0.0%
	<b>Unknown</b>	Count	50†	0	0	*	*	19	13	13	*	*	0
		Percent	1.0%	0.0%	0.0%	**	**	1.4%	1.0%	1.9%	**	**	0.0%
	<b>TOTAL</b>	Count	4,850†	*	60	193	985	1,389	1,363	673	167	13	0
		Percent	100.0%	**	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
<b>American Indian or Alaska Native</b>	<b>Married</b>	Count	830†	0	0	*	93	228	291	179	36	*	0
		Percent	20.7%	0.0%	0.0%	**	9.6%	20.7%	28.0%	36.2%	32.1%	**	0.0%
	<b>Unmarried</b>	Count	3,140†	7	69	214	872	865	735	299	72	*	0
		Percent	78.2%	100.0%	100.0%	98.2%	90.2%	78.6%	70.7%	60.5%	64.3%	**	0.0%
	<b>Unknown</b>	Count	40†	0	0	0	*	8	13	16	*	0	0
		Percent	1.1%	0.0%	0.0%	0.0%	**	0.7%	1.3%	3.2%	**	0.0%	0.0%
	<b>TOTAL</b>	Count	4,010†	7	69	218	967	1,101	1,039	494	112	*	0
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**	0.0%
<b>Asian or Pacific Islander</b>	<b>Married</b>	Count	2,600†	0	0	*	112	546	1,082	709	137	10	0
		Percent	83.3%	0.0%	0.0%	**	49.6%	77.6%	91.0%	89.5%	83.5%	66.7%	0.0%
	<b>Unmarried</b>	Count	510†	0	7	21	114	156	105	79	26	*	0
		Percent	16.4%	0.0%	100.0%	84.0%	50.4%	22.2%	8.8%	10.0%	15.9%	**	0.0%
	<b>Unknown</b>	Count	10†	0	0	0	0	*	*	*	*	0	0
		Percent	0.3%	0.0%	0.0%	0.0%	0.0%	**	**	**	**	0.0%	0.0%
	<b>TOTAL</b>	Count	3,122	0	7	25	226	704	1,189	792	164	15	0
		Percent	100.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%

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

**TABLE 1B-23  
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND NUMBER OF  
PREVIOUS LIVE BIRTHS, ARIZONA, 2022**

		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>	78,355	30†	854	2,690†	15,338	23,565	22,364	10,864	2,454	190	0†
	<b>None</b>	29,676	30	787	2,274	8,676	8,765	6,329	2,290	483	42	0
	<b>1</b>	23,520†	*	66	380	4,701	7,729	6,862	3,146	585	48	*
	<b>2</b>	13,484	0	0	30	1,495	4,381	4,722	2,337	499	19	*
	<b>3</b>	6,650†	0	0	*	360	1,802	2,601	1,520	332	26	0
	<b>4 or more</b>	5,010†	0	0	*	103	882	1,844	1,569	554	54	*
	<b>Unknown</b>	20†	0	*	0	*	6	6	*	*	*	0
<b>White non- Hispanic</b>	<b>TOTAL</b>	32,790†	0†	148	620†	4,924	9,804	10,778	5,254	1,163	99	0†
	<b>None</b>	13,320†	*	141	545	2,971	4,281	3,717	1,359	284	25	0
	<b>1</b>	10,308	0	6	67	1,453	3,260	3,474	1,704	315	28	*
	<b>2</b>	5,270†	0	0	*	390	1,509	2,050	1,077	228	9	*
	<b>3</b>	2,310†	0	0	*	90	551	960	570	121	13	0
	<b>4 or more</b>	1,568	0	0	0	18	198	571	542	214	23	*
	<b>Unknown</b>	20†	0	*	0	*	*	6	*	*	*	0
<b>Hispanic or Latino</b>	<b>TOTAL</b>	33,584	20†	570	1,640†	8,236	10,567	7,995	3,651	848	60	0
	<b>None</b>	12,250	19	522	1,372	4,561	3,418	1,675	549	124	10	0
	<b>1</b>	9,810†	*	48	243	2,599	3,534	2,349	868	156	13	0
	<b>2</b>	6,215	0	0	19	827	2,263	2,004	906	188	8	0
	<b>3</b>	3,130†	0	0	*	191	913	1,186	670	162	8	0
	<b>4 or more</b>	2,170†	0	0	*	57	438	781	658	218	21	0
	<b>Unknown</b>	0†	0	0	0	*	*	0	0	0	0	0
<b>Black or African American</b>	<b>TOTAL</b>	4,850†	0†	60†	190†	985	1,389	1,363	673	167	10†	0
	<b>None</b>	1,620†	*	55	165	538	421	292	117	26	*	0
	<b>1</b>	1,220†	0	*	25	264	413	346	133	33	*	0
	<b>2</b>	890†	0	0	*	125	274	309	142	32	*	0
	<b>3</b>	530†	0	0	*	41	158	203	110	17	*	0
	<b>4 or more</b>	590†	0	0	0	17	123	213	171	59	*	0
	<b>Unknown</b>	0	0	0	0	0	0	0	0	0	0	0
<b>American Indian or Alaska Native</b>	<b>TOTAL</b>	4,010†	10†	69	220†	967	1,101	1,039	494	112	0†	0
	<b>None</b>	1,140†	6	62	171	469	256	127	37	8	*	0
	<b>1</b>	1,010†	*	7	41	331	311	219	81	22	0	0
	<b>2</b>	760†	0	0	*	126	275	245	88	19	0	0
	<b>3</b>	520†	0	0	*	31	155	199	123	14	*	0
	<b>4 or more</b>	580†	0	0	0	10	104	249	165	49	*	0
	<b>Unknown</b>	0	0	0	0	0	0	0	0	0	0	0
<b>Asian or Pacific Islander</b>	<b>TOTAL</b>	3,122	0	7	30†	230†	704	1,189	792	164	20†	0
	<b>None</b>	1,350†	0	7	21	137	389	518	228	41	*	0
	<b>1</b>	1,170†	0	0	*	54	211	474	360	59	*	0
	<b>2</b>	357	0	0	0	27	60	114	124	32	0	0
	<b>3</b>	150†	0	0	0	7	25	53	47	18	*	0
	<b>4 or more</b>	100†	0	0	0	*	19	30	33	14	*	0
	<b>Unknown</b>	0	0	0	0	0	0	0	0	0	0	0

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

**TABLE 1B-24  
CHANGES FROM 2012 TO 2022 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								
	2012	2022	% Change	2012	2022	% Change	2012	2022	% Change	2012	2022	% Change	2012	2022	% Change						
<b>Number of births<sup>b</sup></b>	74,128	68,504	<b>-7.6</b>	11,597	9,798	<b>-15.5</b>	38,670	32,792	<b>-15.2</b>	33,146	33,584	<b>1.3</b>	4,715	4,847	<b>2.8</b>	5,569	4,010	<b>-28.0</b>	3,625	3,122	<b>-13.9</b>
<b>Per 100 births:</b>																					
<b>Teenage mother<sup>f</sup></b>	9.0	4.3	<b>-52.2</b>	12.2	6.2	<b>-49.2</b>	5.1	2.3	<b>-54.9</b>	14.0	6.6	<b>-52.9</b>	11.5	5.3	<b>-53.9</b>	16.0	7.3	<b>-54.4</b>	2.2	1.0	<b>-54.5</b>
<b>Unwed mother<sup>d</sup></b>	44.1	43.9	<b>-0.5</b>	52.4	51.9	<b>-1.0</b>	30.4	30.2	<b>-0.7</b>	57.2	55.5	<b>-3.0</b>	64.8	61.6	<b>-4.9</b>	78.5	78.2	<b>-0.4</b>	17.3	16.4	<b>-5.2</b>
<b>Early prenatal care<sup>e</sup></b>	83.4	72.1	<b>-13.5</b>	77.7	67.1	<b>-13.6</b>	88.4	76.9	<b>-13.0</b>	78.2	68.3	<b>-12.7</b>	79.9	65.6	<b>-17.9</b>	68.2	57.1	<b>-16.3</b>	87.1	75.6	<b>-13.2</b>
<b>0-4 prenatal visits</b>	1.2	6.7	<b>458.3</b>	1.5	8.7	<b>480.0</b>	0.6	4.8	<b>700.0</b>	1.9	8.2	<b>331.6</b>	1.1	9.4	<b>754.5</b>	2.0	14.0	<b>600.0</b>	0.7	5.2	<b>642.9</b>
<b>C-Section</b>	27.9	29.0	<b>3.9</b>	25.7	26.0	<b>1.2</b>	28.7	28.2	<b>-1.7</b>	26.0	28.2	<b>8.5</b>	31.9	32.3	<b>1.3</b>	23.8	27.1	<b>13.9</b>	32.1	34.3	<b>6.9</b>
<b>LBW rate</b>	6.9	7.7	<b>11.6</b>	7.3	8.3	<b>13.7</b>	6.5	7.2	<b>10.8</b>	6.8	7.3	<b>7.4</b>	11.7	12.9	<b>10.3</b>	6.7	8.7	<b>29.9</b>	7.2	10.6	<b>47.2</b>
<b>Newborn intensive care</b>	5.1	7.2	<b>41.2</b>	3.5	8.0	<b>128.6</b>	4.7	7.4	<b>57.4</b>	4.9	6.7	<b>36.7</b>	6.9	9.4	<b>36.2</b>	4.2	9.1	<b>116.7</b>	4.1	6.5	<b>58.5</b>
<b>Preterm births (&lt; 37 weeks)</b>	9.2	9.8	<b>6.5</b>	9.1	9.7	<b>6.6</b>	8.7	9.2	<b>5.7</b>	9.4	9.6	<b>2.1</b>	11.9	12.7	<b>6.7</b>	9.7	12.5	<b>28.9</b>	8.4	10.5	<b>25.0</b>
<b>Births paid for by the AHCCCS<sup>f</sup></b>	52.4	44.4	<b>-15.3</b>	57.5	57.4	<b>-0.2</b>	35.0	29.5	<b>-15.7</b>	73.1	59.7	<b>-18.3</b>	68.3	65.5	<b>-4.1</b>	62.2	62.3	<b>0.2</b>	29.3	21.1	<b>-28.0</b>

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

**TABLE 1B-25  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,  
ARIZONA, 2022**

	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>	78,355	68,504	9,798	50†	32,790†	33,584	4,850†	4,010†	3,122
<b>Mother's age group</b>									
<15	30†	24	9	0	*	21	*	7	0
15-17	854	713	141	0	148	570	60	69	7
18-19	2,689	2,227	461	*	617	1,636	193	218	25
20-24	15,338	12,956	2,379	*	4,924	8,236	985	967	226
25-29	23,565	20,675	2,881	9	9,804	10,567	1,389	1,101	704
30-34	22,364	19,853	2,500	11	10,778	7,995	1,363	1,039	1,189
35-39	10,864	9,713	1,141	10	5,254	3,651	673	494	792
40-44	2,454	2,177	271	6	1,163	848	167	112	164
45+	190†	164	15	11	99	60	13	*	15
Unknown	0†	*	0	*	*	0	0	0	0
<b>Payer for birth</b>									
AHCCCS	36,055	30,404	5,621	30	9,671	20,054	3,173	2,498	659
IHS	890†	664	227	*	47	39	0	805	*
Private insurance	34,283	31,348	2,927	8	19,842	10,221	1,357	615	2,248
Self-pay	4,261	3,556	696	9	2,058	1,897	149	50	107
Unknown	2,864	2,532	327	*	1,174	1,373	168	42	107
<b>Mother's education</b>									
8th Grade or Less	1,831	1,645	185	*	252	1,281	185	50	63
Some High School	8,756	7,411	1,343	*	1,849	5,477	498	808	124
High School / GED	22,071	18,779	3,282	10	6,715	11,751	1,625	1,562	418
Some College	16,585	14,245	2,338	*	7,056	7,038	1,169	1,003	319
Associate Degree	6,742	5,815	927	0	3,035	2,794	396	317	200
Bachelor's Degree	14,658	13,454	1,200	*	9,006	3,828	596	185	1,043
Postgraduate Education	7,267	6,783	482	*	4,570	1,338	346	70	943
Unknown	445	372	41	32	309	77	32	15	12
<b>Marital status</b>									
Married	42,381	37,767	4,609	*	22,550	14,590	1,809	832	2,600
Unmarried <sup>b</sup>	35,183	30,096	5,083	*	9,899	18,648	2,988	3,135	513
Unknown	791	641	106	44	343	346	50	43	9
<b>Weight gain</b>									
Inadequate	17,900	15,500	2,388	12	6,526	8,257	1,246	972	899
Adequate	23,486	20,665	2,811	10	9,970	9,991	1,302	1,097	1,126
Excessive	35,762	31,259	4,484	19	15,938	14,690	2,190	1,869	1,075
Unknown	1,207	1,080	115	12	358	646	109	72	22
<b>Smoking during pregnancy</b>									
Non-smoker	75,621	66,792	8,806	23	31,153	32,968	4,673	3,746	3,081
Light smoker (less than 10 cigarettes per day)	1,218	906	306	6	671	323	116	87	21
Heavy smoker (10 or more cigarettes per day)	804	562	237	*	589	141	35	31	8
Unknown	712	244	449	19	379	152	23	146	12
<b>Length of gestation</b>									
<37 weeks	7,698	6,739	947	12	3,013	3,239	617	501	328
37-41 weeks	70,398	61,569	8,791	38	29,642	30,267	4,210	3,488	2,791
42+ weeks	160†	128	28	0	86	44	15	9	*
Unknown	100†	68	32	*	51	34	*	12	*
<b>Weight at birth</b>									
<1,000 grams	438	390	45	*	141	185	59	31	22
1,000-1,499	500	428	71	*	197	195	55	34	19
1,500-2,499	5,175	4,473	700	*	2,017	2,072	513	284	289
2,500-3,999	66,525	58,102	8,381	42	27,717	28,855	3,996	3,305	2,652
4,000+ grams	5,662	5,076	583	42	2,691	2,263	216	355	137
Unknown	60†	35	18	*	29	14	8	*	*

**TABLE 1B-25 (continued)**  
**SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,**  
**ARIZONA, 2022**

	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	1,829	1,513	301	15	547	914	142	175	51			
1st trimester	56,004	49,418	6,572	14	25,227	22,948	3,178	2,290	2,361			
2nd trimester	13,102	11,127	1,966	9	4,528	6,208	996	892	478			
3rd trimester	4,487	3,836	646	*	1,351	2,316	312	370	138			
Unknown	2,933	2,610	313	10	1,139	1,198	219	283	94			
<b>Prenatal visits</b>												
No visits	1,829	1,513	301	15	547	914	142	175	51			
1-4 visits	3,663	3,104	552	7	1,019	1,829	315	388	112			
5-8 visits	13,261	11,234	2,019	8	4,504	6,323	1,001	983	450			
9-12 visits	34,967	30,660	4,295	12	15,372	14,675	1,973	1,485	1,462			
13+ visits	23,469	20,951	2,515	*	10,887	9,426	1,345	797	1,014			
Unknown	1,166	1,042	116	8	463	417	71	182	33			
<b>Newborn intensive care</b>												
Yes	5,713	4,919	783	11	2,425	2,265	456	364	203			
No	72,642	63,585	9,015	42	30,367	31,319	4,391	3,646	2,919			
<b>Method of delivery</b>												
Vaginal	53,908	47,007	6,864	37	22,663	23,252	3,161	2,875	1,957			
C-Section	22,421	19,867	2,543	11	9,232	9,468	1,565	1,085	1,071			
Forceps	236	206	29	*	111	105	8	6	6			
Vacuum	1,786	1,421	362	*	782	759	113	44	88			
Unknown	0†	*	0	*	*	0	0	0	0			
<b>Obstetric procedures<sup>c</sup></b>												
Total	39,692	34,739	4,938	15	16,084	17,714	2,314	2,150	1,430			
Induction of labor	24,231	21,104	3,120	7	10,222	10,400	1,484	1,331	794			
Augmentation of labor	22,270	20,128	2,132	10	8,445	10,499	1,286	1,171	869			
Cervical cerclage	177	156	21	0	64	76	20	7	10			
Tocolysis	260†	166	96	*	101	109	21	29	*			
External cephalic version successful	100†	81	22	0	41	44	*	13	*			
External cephalic version failed	144	121	23	0	68	43	7	19	7			
<b>Births with medical risk factors<sup>c</sup></b>												
Total	22,917	19,990	2,915	12	8,005	10,381	1,575	2,036	920			
Pre-existing diabetes	979	780	199	0	257	434	58	195	35			
Gestational diabetes	8,001	6,958	1,041	*	2,568	3,671	336	884	542			
Pre-existing hypertension	1,478	1,298	179	*	550	606	136	141	45			
Gestational hypertension	7,757	6,806	946	*	3,052	3,240	596	681	188			
Eclampsia	130†	108	18	0	67	44	7	7	*			
Previous preterm birth	3,385	2,905	477	*	1,231	1,532	261	263	98			
Other previous poor pregnancy outcome	4,238	3,881	357	0	1,439	2,078	366	219	136			
Gonorrhea	237	195	41	*	58	97	37	45	0			
Syphilis	350†	264	87	*	69	161	25	95	*			
Chlamydia	1,842	1,520	321	*	314	1,061	144	292	31			
Hepatitis B	100†	92	*	0	19	12	28	*	35			
Hepatitis C	190†	154	39	0	102	64	14	12	*			

**TABLE 1B-25 (continued)**  
**SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,**  
**ARIZONA, 2022**

	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	24,282	21,609	2,658	15	10,029	10,222	1,658	1,377	996		
Premature rupture of the membranes	3,875	3,363	509	*	1,464	1,706	239	321	145		
Precipitous labor	4,815	4,281	529	*	2,434	1,666	271	243	201		
Prolonged labor	2,012	1,686	324	*	805	866	133	127	81		
Breech presentation	3,040	2,654	385	*	1,397	1,185	187	158	113		
Chorioamnionitis	1,692	1,545	146	*	479	928	98	94	93		
Meconium staining of the amniotic fluid	5,457	4,952	502	*	2,061	2,496	389	298	213		
Fetal intolerance	7,786	7,050	733	*	2,924	3,439	652	453	318		
Maternal transfusion	499	394	105	0	156	207	43	77	16		
Third or fourth degree perineal laceration	445	397	48	0	201	157	29	22	36		
Ruptured uterus	30†	30	*	0	11	15	6	0	*		
Unplanned Hysterectomy	40†	29	12	0	10	20	*	*	*		
Admission to intensive care unit	126	100	26	0	43	43	14	20	6		
Unplanned surgery following delivery	200	148	52	0	74	69	21	27	9		
Total	4,124	3,318	799	7	1,807	1,567	326	283	141		
<b>Abnormal conditions of the newborn<sup>c</sup></b>											
Assisted ventilation immediately after delivery	3,386	2,708	672	6	1,530	1,257	273	215	111		
Assisted ventilation for more than 6 hours	2,061	1,701	358	*	905	761	184	144	67		
Surfactant replacement therapy	370	316	53	*	156	137	32	33	12		
Suspected neonatal sepsis	1,560	1,296	260	*	620	643	122	120	55		
Seizure or serious neurologic dysfunction	30†	23	*	0	14	8	*	*	*		
Significant birth injury	50†	29	17	0	21	12	*	10	*		
Total	335	259	75	1	130	148	13	33	11		
<b>Congenital anomalies of the newborn<sup>c</sup></b>											
Anencephalus	0†	*	0	0	*	0	0	0	0		
Spina bifida / Meningocele	20†	14	6	0	*	13	0	*	0		
Cyanotic congenital heart disease	60†	52	10	0	29	25	*	*	*		
Congenital diaphragmatic hernia	20†	12	*	0	*	8	0	*	*		
Omphalocele / Gastroschisis	30†	25	*	0	8	16	*	*	*		
Limb reduction defect	10†	9	*	0	*	6	*	0	0		
Cleft lip / palate	60†	39	17	0	19	22	*	8	*		
Down syndrome	60†	47	12	0	23	25	*	6	*		
Suspected chromosomal disorder	50†	36	11	0	16	27	*	*	*		
Hypospadias	20†	17	*	0	7	9	*	*	0		
Unknown congenital anomalies	60†	34	20	*	27	19	*	*	*		

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 2012 TO 2022 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					
	2012	2022	% Change	2012	2022	% Change	2012	2022	% Change			
<b>Number of births<sup>b</sup></b>	45,511	36,055	<b>-20.8</b>	1,487	892	<b>-40.0</b>	35,599	34,283	<b>-3.7</b>	2,953	4,261	<b>44.3</b>
<b>Per 100 births:</b>												
<b>Teenage mother<sup>c</sup></b>	14.9	7.9	<b>-47.0</b>	15.5	6.7	<b>-56.8</b>	2.5	1.2	<b>-52.0</b>	7.1	3.6	<b>-49.3</b>
<b>Unwed mother<sup>d</sup></b>	66.0	67.9	<b>2.9</b>	78.6	79.7	<b>1.4</b>	18.4	22.9	<b>24.5</b>	30.6	29.7	<b>-2.9</b>
<b>Early prenatal care<sup>e</sup></b>	76.7	64.9	<b>-15.4</b>	62.7	49.2	<b>-21.5</b>	92.0	81.4	<b>-11.5</b>	73.1	57.4	<b>-21.5</b>
<b>0-4 prenatal visits</b>	6.6	9.9	<b>50.0</b>	14.5	18.0	<b>24.1</b>	1.4	2.7	<b>92.9</b>	13.5	13.8	<b>2.2</b>
<b>C-Section<sup>f</sup></b>	25.9	27.8	<b>7.3</b>	20.3	27.9	<b>37.4</b>	31.0	30.8	<b>-0.6</b>	17.9	18.8	<b>5.0</b>
<b>LBW rate</b>	7.5	8.8	<b>17.3</b>	5.6	7.2	<b>28.6</b>	6.3	7.1	<b>12.7</b>	5.2	5.4	<b>3.8</b>
<b>Newborn intensive care</b>	5.0	8.4	<b>68.0</b>	2.6	7.0	<b>169.2</b>	4.8	6.4	<b>33.3</b>	3.9	4.7	<b>20.5</b>
<b>Preterm birth &lt; 37 weeks</b>	9.8	11.0	<b>12.2</b>	8.7	10.5	<b>20.7</b>	8.6	9.0	<b>4.7</b>	7.2	6.4	<b>-11.1</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, 2022**

	TOTAL	Payer for birth				
		AHCCCS <sup>a</sup>	IHS	Private Insurance	Self-pay	Unknown
<b>TOTAL</b>	78,355	36,055	890†	34,280†	4,260†	2,860†
<b>Mother's age group</b>						
<15	30†	23	*	*	*	*
15-17	854	665	18	95	51	25
18-19	2,689	2,172	39	314	100	64
20-24	15,338	10,116	217	3,702	673	630
25-29	23,565	10,934	253	10,184	1,291	903
30-34	22,364	7,804	242	12,275	1,312	731
35-39	10,864	3,444	97	6,292	638	393
40-44	2,454	824	22	1,326	179	103
45+	190†	71	*	89	16	13
Unknown	0†	*	0	*	0	0
<b>Mother's race/ethnicity</b>						
White non-Hispanic	32,792	9,671	47	19,842	2,058	1,174
Hispanic or Latino	33,584	20,054	39	10,221	1,897	1,373
Black or African American	4,847	3,173	0	1,357	149	168
American Indian or Alaska Native	4,010	2,498	805	615	50	42
Asian or Pacific Islander	3,120†	659	*	2,248	107	107
8th Grade or Less	1,831	1,348	21	106	125	231
Some High School	8,756	7,185	207	761	307	296
High School / GED	22,071	14,422	346	5,696	941	666
Some College	16,585	7,660	191	7,194	919	621
Associate Degree	6,742	2,532	73	3,448	406	283
Bachelor's Degree	14,658	2,099	33	10,888	1,128	510
Postgraduate Education	7,267	538	17	6,087	401	224
Unknown	450†	271	*	103	34	33
<b>Marital status</b>						
Married	42,381	11,026	168	26,318	2,940	1,929
Unmarried <sup>b</sup>	35,183	24,477	711	7,835	1,267	893
Unknown	791	552	13	130	54	42
<b>Weight gain</b>						
Inadequate	17,900	9,078	197	6,802	1,029	794
Adequate	23,486	10,169	226	10,825	1,393	873
Excessive	35,762	16,079	451	16,405	1,710	1,117
Unknown	1,207	729	18	251	129	80
<b>Smoking during pregnancy</b>						
Non-smoker	75,621	34,186	845	33,781	4,022	2,787
Light smoker (less than 10 cigarettes per day)	1,218	947	22	187	44	18
Heavy smoker (10 or more cigarettes per day)	804	643	7	110	22	22
Unknown	712	279	18	205	173	37
<b>Length of gestation</b>						
<37 weeks	7,698	3,960	94	3,094	272	278
37-41 weeks	70,398	31,987	792	31,113	3,941	2,565
42+ weeks	160†	57	*	64	26	*
Unknown	100†	51	*	12	22	16
<b>Weight at birth</b>						
<1,000 grams	440†	241	*	157	19	17
1,000-1,499	500	252	6	198	20	24
1,500-2,499	5,175	2,684	54	2,077	193	167
2,500-3,999	66,525	30,592	724	29,190	3,582	2,437
4,000+ grams	5,662	2,263	103	2,655	432	209
Unknown	60†	23	*	6	15	10



**TABLE 1B-27 (continued)**  
**PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2022**

	TOTAL	Payer for birth				
		AHCCCS <sup>a</sup>	IHS	Private Insurance	Self-pay	Unknown
<b>Prenatal care</b>						
No care	1,829	1,214	50	204	303	58
1st trimester	56,004	23,401	439	27,922	2,447	1,795
2nd trimester	13,102	7,285	181	4,113	899	624
3rd trimester	4,487	2,692	98	1,051	391	255
Unknown	2,933	1,463	124	993	221	132
<b>Prenatal visits</b>						
No visits	1,829	1,214	50	204	303	58
1-4 visits	3,663	2,373	111	718	284	177
5-8 visits	13,261	7,510	229	4,256	753	513
9-12 visits	34,967	14,954	253	16,795	1,749	1,216
13+ visits	23,469	9,483	149	11,941	1,070	826
Unknown	1,166	521	100	369	102	74
<b>Newborn intensive care</b>						
Yes	5,713	3,020	62	2,211	201	219
No	72,642	33,035	830	32,072	4,060	2,645
<b>Method of delivery</b>						
Vaginal	53,908	25,131	626	22,798	3,351	2,002
C-Section	22,421	10,039	249	10,567	802	764
Forceps	240†	99	*	111	12	12
Vacuum	1,786	786	15	807	96	82
Unknown	4	0	0	0	0	*
<b>Obstetric procedures<sup>c</sup></b>						
Total	39,692	18,612	525	17,294	1,574	1,687
Induction of labor	24,231	11,274	327	10,752	909	969
Augmentation of labor	22,270	10,380	347	9,558	922	1,063
Cervical cerclage	177	75	0	91	8	*
Tocolysis	260†	146	*	90	6	17
External cephalic version successful	100†	44	*	44	*	9
External cephalic version failed	140†	62	*	60	8	11
Total	22,917	11,678	474	9,010	800	955
<b>Births with medical risk factors<sup>c</sup></b>						
Pre-existing diabetes	979	518	51	347	18	45
Gestational diabetes	8,001	3,817	185	3,477	248	274
Pre-existing hypertension	1,478	711	41	609	45	72
Gestational hypertension	7,757	3,644	180	3,296	281	356
Eclampsia	130†	67	*	51	*	*
Previous preterm birth	3,385	1,918	43	1,107	133	184
Other previous poor pregnancy outcome	4,238	2,245	55	1,627	134	177
Gonorrhea	240†	184	16	29	*	*
Syphilis	354	281	22	27	6	18
Chlamydia	1,842	1,354	74	269	71	74
Hepatitis B	100†	49	0	37	*	6
Hepatitis C	190†	157	*	18	*	9

**TABLE 1B-27 (continued)**  
**PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2022**

	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	24,282	10,708	381	10,912	1,182	1,099
Premature rupture of the membranes	3,875	1,658	112	1,684	189	232
Precipitous labor	4,815	1,904	36	2,409	305	161
Prolonged labor	2,012	828	42	966	101	75
Breech presentation	3,040	1,288	34	1,491	125	102
Chorioamnionitis	1,692	780	31	727	76	78
Meconium staining of the amniotic fluid	5,457	2,678	77	2,258	255	189
Fetal intolerance	7,786	3,478	181	3,299	331	497
Maternal transfusion	499	262	17	170	18	32
Third or fourth degree perineal laceration	445	141	7	233	23	41
Ruptured uterus	33	19	0	13	0	*
Unplanned Hysterectomy	40†	19	0	19	*	*
Admission to intensive care unit	130†	71	*	39	*	6
Unplanned surgery following delivery	200	95	6	78	8	13
Total	4,124	2,098	53	1,625	177	171
<b>Abnormal conditions of the newborn<sup>c</sup></b>						
Assisted ventilation immediately after delivery	3,386	1,686	38	1,374	152	136
Assisted ventilation for more than 6 hours	2,061	1,080	25	804	77	75
Surfactant replacement therapy	370	174	8	140	25	23
Suspected neonatal sepsis	1,560	840	25	565	66	64
Seizure or serious neurologic dysfunction	30†	15	0	9	*	*
Significant birth injury	50†	25	0	15	*	*
Total	335	181	7	110	17	20
<b>Congenital anomalies of the newborn<sup>c</sup></b>						
Anencephalus	0†	*	0	0	0	0
Spina bifida / Meningocele	20†	13	0	6	*	0
Cyanotic congenital heart disease	60†	31	*	17	*	7
Congenital diaphragmatic hernia	20†	9	0	*	*	0
Omphalocele / Gastroschisis	30	22	0	8	0	0
Limb reduction defect	10†	*	0	*	*	0
Cleft lip / palate	60†	29	*	21	*	*
Down syndrome	60†	25	*	20	*	8
Suspected chromosomal disorder	50†	22	0	21	*	*
Hypospadias	20†	10	0	7	*	0
Unknown congenital anomalies	60†	32	*	16	*	*

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, 2022**

		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>	36,055	23	665	2,172	10,116	10,934	7,804	3,444	824	71	*
	<b>IHS</b>	890†	*	18	39	217	253	242	97	22	*	0
	<b>Private insurance</b>	34,280†	*	95	314	3,702	10,184	12,275	6,292	1,326	89	*
	<b>Self-pay</b>	4,260†	*	51	100	673	1,291	1,312	638	179	16	0
	<b>Unknown</b>	2,860†	*	25	64	630	903	731	393	103	13	0
	<b>TOTAL</b>	78,355	30†	854	2,689	15,338	23,565	22,364	10,864	2,454	190†	0†
<b>White non- Hispanic</b>	<b>AHCCCS</b>	9,671	0	104	448	2,535	2,985	2,327	998	240	32	*
	<b>IHS</b>	50†	0	*	0	10	14	15	*	*	*	0
	<b>Private insurance</b>	19,842	0	32	129	1,890	5,758	7,421	3,765	787	58	*
	<b>Self-pay</b>	2,060†	0	9	22	253	632	683	348	107	*	0
	<b>Unknown</b>	1,170†	*	*	18	236	415	332	139	27	*	0
	<b>TOTAL</b>	32,790†	1	150†	617	4,924	9,804	10,778	5,250†	1,160†	100†	0†
<b>Hispanic or Latino</b>	<b>AHCCCS</b>	20,054	16	465	1,376	6,051	6,104	3,903	1,706	406	27	0
	<b>IHS</b>	40†	0	*	*	10	10	11	*	0	0	0
	<b>Private insurance</b>	10,220†	*	46	146	1,471	3,472	3,241	1,507	318	17	0
	<b>Self-pay</b>	1,900†	*	36	71	379	582	531	227	62	8	0
	<b>Unknown</b>	1,370†	*	21	41	325	399	309	207	62	8	0
	<b>TOTAL</b>	33,584	20†	570†	1,640†	8,236	10,567	7,995	3,650†	848	60	0
<b>Black or African American</b>	<b>AHCCCS</b>	3,170†	*	46	171	770	958	782	353	83	6	0
	<b>IHS</b>	0	0	0	0	0	0	0	0	0	0	0
	<b>Private insurance</b>	1,360†	0	11	15	152	343	493	266	72	*	0
	<b>Self-pay</b>	150†	0	*	*	25	37	42	32	6	*	0
	<b>Unknown</b>	170†	0	*	*	38	51	46	22	6	0	0
	<b>TOTAL</b>	4,850†	0†	60†	190†	985	1,389	1,363	673	167	10†	0
<b>American Indian or Alaska Native</b>	<b>AHCCCS</b>	2,500†	*	45	156	642	688	619	283	60	*	0
	<b>IHS</b>	810†	*	15	37	197	229	216	88	20	0	0
	<b>Private insurance</b>	620†	*	*	20	105	160	183	111	29	*	0
	<b>Self-pay</b>	50†	0	*	*	10	17	11	*	*	0	0
	<b>Unknown</b>	40†	0	0	*	13	7	10	8	*	0	0
	<b>TOTAL</b>	4,010†	10†	70†	220†	967	1,101	1,039	490†	110†	0†	0
<b>Asian or Pacific Islander</b>	<b>AHCCCS</b>	660†	0	*	21	118	199	173	104	35	*	0
	<b>IHS</b>	0†	0	0	0	0	0	0	*	0	0	0
	<b>Private insurance</b>	2,250†	0	*	*	84	451	937	643	120	8	0
	<b>Self-pay</b>	110†	0	*	0	6	23	45	27	*	*	0
	<b>Unknown</b>	110†	0	0	0	18	31	34	17	6	*	0
	<b>TOTAL</b>	3,120†	0	10†	30†	226	704	1,189	790†	160†	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, 2022**

		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>	1,829	6	59	103	444	492	413	225	73	13	*
	<b>1st trimester</b>	56,004	9	387	1,502	10,239	17,067	16,808	8,129	1,749	112	*
	<b>2nd trimester</b>	13,102	9	242	669	2,935	3,832	3,298	1,655	427	34	*
	<b>3rd trimester</b>	4,487	8	130	302	1,110	1,260	1,053	479	130	15	0
	<b>Unknown</b>	2,930†	*	36	113	610	914	792	376	75	16	0
	<b>TOTAL</b>	78,355	33	854	2,689	15,338	23,565	22,364	10,864	2,454	190	0†
<b>White non- Hispanic</b>	<b>No care</b>	550†	*	6	18	104	135	152	80	38	12	*
	<b>1st trimester</b>	25,227	0	89	388	3,532	7,530	8,569	4,186	874	57	*
	<b>2nd trimester</b>	4,528	0	35	134	820	1,378	1,322	647	178	13	*
	<b>3rd trimester</b>	1,350†	0	11	53	287	395	389	178	34	*	0
	<b>Unknown</b>	1,139	0	7	24	181	366	346	163	39	13	0
	<b>TOTAL</b>	32,790†	0†	148	617	4,924	9,804	10,778	5,254	1,163	100†	0†
<b>Hispanic or Latino</b>	<b>No care</b>	910†	*	39	65	262	258	176	87	23	*	0
	<b>1st trimester</b>	22,948	6	245	881	5,415	7,494	5,710	2,581	579	37	0
	<b>2nd trimester</b>	6,210†	*	165	432	1,609	1,813	1,363	647	161	13	0
	<b>3rd trimester</b>	2,316	6	98	200	630	644	461	210	61	6	0
	<b>Unknown</b>	1,200†	*	23	58	320	358	285	126	24	*	0
	<b>TOTAL</b>	33,584	20†	570	1,636	8,236	10,567	7,995	3,651	848	60†	0
<b>Black or African American</b>	<b>No care</b>	140†	0	*	6	37	40	32	16	7	0	0
	<b>1st trimester</b>	3,180†	*	28	117	603	920	951	450	101	6	0
	<b>2nd trimester</b>	1,000†	*	18	38	231	270	250	143	40	*	0
	<b>3rd trimester</b>	310†	0	7	21	80	82	71	33	15	*	0
	<b>Unknown</b>	220†	0	*	11	34	77	59	31	*	0	0
	<b>TOTAL</b>	4,850†	0†	60†	193	985	1,389	1,363	673	167	10†	0
<b>American Indian or Alaska Native</b>	<b>No care</b>	180†	*	9	13	30	41	43	33	*	0	0
	<b>1st trimester</b>	2,290†	*	23	98	548	628	637	282	71	*	0
	<b>2nd trimester</b>	890†	*	21	60	230	241	204	110	24	0	0
	<b>3rd trimester</b>	370†	*	13	27	94	104	83	36	10	*	0
	<b>Unknown</b>	280†	0	*	20	65	87	72	33	*	0	0
	<b>TOTAL</b>	4,010†	10†	69	218	967	1,101	1,039	494	110†	0†	0
<b>Asian or Pacific Islander</b>	<b>No care</b>	50†	0	*	*	11	18	10	9	*	0	0
	<b>1st trimester</b>	2,360†	0	*	18	141	495	941	630	124	10	0
	<b>2nd trimester</b>	480†	0	*	*	45	130	159	108	24	*	0
	<b>3rd trimester</b>	140†	0	*	*	19	35	49	22	10	*	0
	<b>Unknown</b>	90†	0	0	0	10	26	30	23	*	0	0
	<b>TOTAL</b>	3,122	0	10†	30†	226	704	1,189	792	160†	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, 2022**

		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>	1,829	6	59	103	444	492	413	225	73	13	*
	<b>1-4 visits</b>	3,663	7	105	223	914	1,039	875	400	90	9	*
	<b>5-8 visits</b>	13,260†	*	209	656	2,998	3,957	3,466	1,552	388	30	0
	<b>9-12 visits</b>	34,967	10	309	1,023	6,565	10,657	10,424	4,872	1,040	65	*
	<b>13+ visits</b>	23,470†	*	155	631	4,183	7,044	6,864	3,683	839	65	0
	<b>Unknown</b>	1,166	0	17	53	234	376	322	132	24	8	0
	<b>TOTAL</b>	78,355	30†	854	2,689	15,338	23,565	22,364	10,864	2,454	190	0†
<b>White non- Hispanic</b>	<b>No visits</b>	550†	*	6	18	104	135	152	80	38	12	*
	<b>1-4 visits</b>	1,020†	0	10	37	224	294	284	130	35	*	*
	<b>5-8 visits</b>	4,504	0	30	119	795	1,372	1,373	642	157	16	0
	<b>9-12 visits</b>	15,372	0	66	251	2,215	4,580	5,273	2,459	494	32	*
	<b>13+ visits</b>	10,887	0	32	176	1,515	3,270	3,551	1,890	426	27	0
	<b>Unknown</b>	460†	0	*	16	71	153	145	53	13	8	0
	<b>TOTAL</b>	32,790†	0†	148	617	4,924	9,804	10,778	5,254	1,163	100†	0†
<b>Hispanic or Latino</b>	<b>No visits</b>	910†	*	39	65	262	258	176	87	23	*	0
	<b>1-4 visits</b>	1,830†	7	77	147	504	510	389	162	30	*	0
	<b>5-8 visits</b>	6,320†	*	148	415	1,677	1,916	1,412	594	150	10	0
	<b>9-12 visits</b>	14,675	6	193	616	3,497	4,772	3,632	1,569	370	20	0
	<b>13+ visits</b>	9,430†	*	103	372	2,193	2,978	2,287	1,194	269	26	0
	<b>Unknown</b>	417	0	10	21	103	133	99	45	6	0	0
	<b>TOTAL</b>	33,584	20†	570	1,636	8,236	10,567	7,995	3,651	848	60†	0
<b>Black or African American</b>	<b>No visits</b>	140†	0	*	6	37	40	32	16	7	0	0
	<b>1-4 visits</b>	320†	0	10	15	70	88	76	44	10	*	0
	<b>5-8 visits</b>	1,000†	*	11	55	229	290	261	119	34	*	0
	<b>9-12 visits</b>	1,970†	*	24	73	377	570	571	290	59	7	0
	<b>13+ visits</b>	1,350†	*	10	40	260	372	407	197	55	*	0
	<b>Unknown</b>	70†	0	*	*	12	29	16	7	*	0	0
	<b>TOTAL</b>	4,850†	0†	60†	193	985	1,389	1,363	673	167	10†	0
<b>American Indian or Alaska Native</b>	<b>No visits</b>	180†	*	9	13	30	41	43	33	*	0	0
	<b>1-4 visits</b>	388	0	7	21	98	119	92	44	7	0	0
	<b>5-8 visits</b>	980†	*	19	63	256	251	256	110	24	*	0
	<b>9-12 visits</b>	1,490†	*	22	75	381	419	362	176	47	*	0
	<b>13+ visits</b>	800†	0	10	34	160	218	234	112	28	*	0
	<b>Unknown</b>	180†	0	*	12	42	53	52	19	*	0	0
	<b>TOTAL</b>	4,010†	10†	69	218	967	1,101	1,039	494	110†	0†	0
<b>Asian or Pacific Islander</b>	<b>No visits</b>	50†	0	*	*	11	18	10	9	*	0	0
	<b>1-4 visits</b>	110†	0	*	*	18	28	34	20	8	0	0
	<b>5-8 visits</b>	450†	0	*	*	41	128	164	87	23	*	0
	<b>9-12 visits</b>	1,460†	0	*	8	95	316	586	378	70	*	0
	<b>13+ visits</b>	1,014	0	0	9	55	206	385	290	61	8	0
	<b>Unknown</b>	30†	0	0	0	6	8	10	8	*	0	0
	<b>TOTAL</b>	3,122	0	10†	30†	226	704	1,189	792	160†	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-31  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2022**

	TOTAL	Prenatal care				Visits			
		No care	1st trimester	2nd trimester	3rd trimester	Un-known	Less than 5	5 or more	Un-known
<b>Mother's age group</b>	78,355	1,829	56,004	13,102	4,490†	2,930†	5,492	71,697	1,170†
<15	33	6	9	9	8	*	13	20	0
15-17	854	59	387	242	130	36	164	673	17
18-19	2,689	103	1,502	669	302	113	326	2,310	53
20-24	15,338	444	10,239	2,935	1,110	610	1,358	13,746	234
25-29	23,565	492	17,067	3,832	1,260	914	1,531	21,658	376
30-34	22,364	413	16,808	3,298	1,053	792	1,288	20,754	322
35-39	10,864	225	8,129	1,655	479	376	625	10,107	132
40-44	2,454	73	1,749	427	130	75	163	2,267	24
45+	190	13	112	34	15	16	22	160	8
Unknown	0†	*	*	*	0	0	*	*	0
<b>Payer for birth</b>	36,055	1,214	23,401	7,285	2,692	1,463	3,587	31,947	521
AHCCCS	892	50	439	181	98	124	161	631	100
IHS	34,283	204	27,922	4,113	1,051	993	922	32,992	369
Private insurance	4,261	303	2,447	899	391	221	587	3,572	102
Self-pay	2,864	58	1,795	624	255	132	235	2,555	74
Unknown	1,831	153	880	507	211	80	324	1,472	35
<b>Mother's education</b>	8,756	463	5,072	2,029	802	390	1,249	7,365	142
8th Grade or Less	22,071	617	14,952	4,185	1,392	925	1,836	19,881	354
Some High School	16,585	236	12,204	2,680	869	596	898	15,425	262
Some High School / GED	6,742	102	5,100	1,000	304	236	345	6,304	93
High School / GED	14,658	115	11,584	1,876	624	459	511	13,963	184
Some College	7,267	35	6,053	753	243	183	179	7,041	47
Associate Degree	445	108	159	72	42	64	150	246	49
Bachelor's Degree	42,381	460	32,647	6,029	1,862	1,383	1,788	40,076	517
Postgraduate Education	35,183	1,278	22,925	6,922	2,562	1,496	3,542	31,025	616
Unknown	791	91	432	151	63	54	162	596	33
<b>Marital status</b>	17,900	584	11,805	3,267	1,520	724	1,873	15,709	318
Married	23,486	480	17,076	3,947	1,210	773	1,424	21,788	274
Unmarried <sup>a</sup>	35,762	532	26,693	5,707	1,620	1,210	1,828	33,512	422
Inadequate	1,207	233	430	181	137	226	367	688	152
Adequate	75,621	1,521	54,587	12,531	4,248	2,734	4,877	69,703	1,041
Excessive	1,218	132	657	236	120	73	281	902	35
Unknown	804	115	390	189	64	46	218	568	18
<b>Smoking during pregnancy</b>	712	61	370	146	55	80	116	524	72
Non-smoker	7,698	517	5,331	1,102	297	451	1,258	6,249	191
Light smoker (less than 10 cigarettes per day)	70,398	1,274	50,610	11,927	4,165	2,422	4,176	65,293	929
Heavy smoker (10 or more cigarettes per day)	156	10	62	48	22	14	23	127	6
Unknown	100†	28	*	25	*	46	35	28	40

**TABLE 1B-31 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2022**

	TOTAL	Prenatal care				Visits			
		No care	1st trimester	2nd trimester	3rd trimester	Un-known	Less than 5	5 or more	Un-known
<b>Weight at birth</b>									
<1,000 grams	440†	54	294	59	*	30	188	233	17
1,000-1,499	500	36	337	82	10	35	114	374	12
1,500-2,499	5,175	231	3,556	870	252	266	637	4,427	111
2,500-3,999	66,525	1,409	47,658	11,132	3,908	2,418	4,252	61,328	945
4,000+ grams	5,662	92	4,150	947	313	160	287	5,315	60
Unknown	60†	7	9	12	*	24	14	20	21
<b>Newborn intensive care</b>									
Yes	5,713	407	3,768	952	291	295	952	4,613	148
No	72,642	1,422	52,236	12,150	4,196	2,638	4,540	67,084	1,018
<b>Method of delivery</b>									
Vaginal	53,908	1,347	38,169	9,110	3,162	2,120	3,839	49,189	880
C-Section	22,421	417	16,414	3,650	1,193	747	1,493	20,666	262
Forceps	236	6	166	42	15	7	17	218	*
Vacuum	1,786	59	1,255	300	117	55	143	1,624	19
Unknown	4	0	0	0	0	*	0	0	*
<b>Total</b>	39,692	592	28,502	6,855	2,402	1,341	2,231	36,867	594
<b>Obstetric procedures<sup>b</sup></b>									
Induction of labor	24,231	198	17,577	4,252	1,510	694	1,077	22,898	256
Augmentation of labor	22,270	438	15,838	3,807	1,347	840	1,470	20,386	414
Cervical cerclage	180†	*	145	15	6	9	9	165	*
Tocolysis	263	12	181	34	15	21	30	219	14
External cephalic version successful	100†	0	80	13	*	*	*	100	*
External cephalic version failed	140†	*	97	28	9	9	7	132	*
<b>Total</b>	22,917	519	16,345	3,953	1,287	813	1,713	20,837	367
<b>Births with medical risk factors<sup>b</sup></b>									
Pre-existing diabetes	979	11	728	156	46	38	77	886	16
Gestational diabetes	8,001	63	5,993	1,293	404	248	348	7,564	89
Pre-existing hypertension	1,478	37	1,090	224	70	57	110	1,348	20
Gestational hypertension	7,757	189	5,500	1,353	433	282	585	7,015	157
Eclampsia	126	6	87	19	7	7	14	112	0
Previous preterm birth	3,385	133	2,364	554	175	159	379	2,919	87
Other previous poor pregnancy outcome	4,238	86	3,132	702	194	124	290	3,900	48
Gonorrhea	237	17	115	63	23	19	47	182	8
Syphilis	354	53	167	82	32	20	93	247	14
Chlamydia	1,842	62	1,091	435	183	71	235	1,569	38
Hepatitis B	100†	*	60	25	8	*	7	89	*
Hepatitis C	193	22	87	43	25	16	53	132	8

**TABLE 1B-31 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2022**

	TOTAL	Prenatal care				Visits			
		No care	1st trimester	2nd trimester	3rd trimester	Un-known	Less than 5	5 or more	Un-known
<b>Births with complications of labor and delivery<sup>b</sup></b>									
Total	24,282	756	17,090	4,116	1,369	951	2,043	21,767	472
Premature rupture of the membranes	3,875	131	2,780	619	178	167	378	3,396	101
Precipitous labor	4,815	183	3,427	770	270	165	470	4,263	82
Prolonged labor	2,012	45	1,416	369	109	73	150	1,834	28
Breech presentation	3,040	100	2,168	504	142	126	307	2,683	50
Chorioamnionitis	1,692	48	1,176	310	109	49	130	1,535	27
Meconium staining of the amniotic fluid	5,457	219	3,704	1,003	351	180	505	4,854	98
Fetal intolerance	7,786	201	5,407	1,368	446	364	570	7,024	192
Maternal transfusion	499	34	323	97	23	22	71	417	11
Third or fourth degree perineal laceration	445	11	327	63	29	15	21	415	9
Ruptured uterus	30†	*	22	6	*	*	*	29	*
Unplanned Hysterectomy	40†	*	31	*	*	*	*	39	0
Admission to intensive care unit	130†	16	75	13	*	19	27	88	11
Unplanned surgery following delivery	200	7	138	33	10	12	19	173	8
<b>Total</b>	<b>4,124</b>	<b>263</b>	<b>2,735</b>	<b>707</b>	<b>210</b>	<b>209</b>	<b>610</b>	<b>3,403</b>	<b>111</b>
<b>Abnormal conditions of the newborn<sup>b</sup></b>									
Total	3,386	209	2,254	592	175	156	507	2,801	78
Assisted ventilation immediately after delivery	2,061	157	1,356	342	93	113	374	1,624	63
Assisted ventilation for more than 6 hours	370	47	233	55	11	24	94	259	17
Surfactant replacement therapy	1,560	154	991	251	73	91	305	1,205	50
Suspected neonatal sepsis	30†	6	16	*	*	*	6	20	*
Seizure or serious neurologic dysfunction	50†	*	26	9	*	*	6	39	*
Significant birth injury	335	17	198	72	24	24	36	284	15
<b>Total</b>	<b>0†</b>	<b>0</b>	<b>*</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>*</b>	<b>0</b>
<b>Congenital anomalies of the newborn<sup>b</sup></b>									
Total	20†	*	12	*	*	0	*	18	0
Anencephalus	60†	*	33	14	8	6	*	55	*
Spina bifida / Meningocele	20†	0	7	*	*	*	*	11	*
Cyanotic congenital heart disease	30†	*	15	11	*	0	*	25	0
Congenital diaphragmatic hernia	10†	0	8	*	0	*	*	9	*
Omphalocele / Gastroschisis	60†	*	32	14	*	*	9	45	*
Limb reduction defect	60†	*	38	13	*	*	6	52	*
Cleft lip / palate	50†	*	28	14	*	*	*	39	*
Down syndrome	20†	*	14	*	0	*	*	17	0
Suspected chromosomal disorder	60†	*	28	10	*	10	7	43	*
Hypospadias	20†	*	14	*	0	*	*	17	0
Unknown congenital anomalies	60†	*	28	10	*	10	7	43	*

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



**TABLE 1B-32  
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2022**

	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>	78,355	6,110†	72,187	60†	7,700†	70,398	160†	100†
<b>Mother's age group</b>								
<15	30†	*	29	0	*	29	0	0
15-17	850†	97	756	*	84	765	*	*
18-19	2,690†	231	2,457	*	242	2,440	*	*
20-24	15,338	1,185	14,146	7	1,401	13,882	35	20
25-29	23,565	1,610	21,944	11	2,045	21,451	45	24
30-34	22,364	1,746	20,601	17	2,242	20,054	38	30
35-39	10,864	947	9,905	12	1,274	9,548	25	17
40-44	2,450†	265	2,184	*	370	2,074	*	*
45+	190†	27	162	*	34	153	*	*
Unknown	0†	*	*	0	*	*	0	0
<b>Payer for birth</b>								
AHCCCS	36,055	3,177	32,855	23	3,960	31,987	57	51
IHS	890†	64	827	*	94	792	*	*
Private insurance	34,283	2,432	31,845	6	3,094	31,113	64	12
Self-pay	4,261	232	4,014	15	272	3,941	26	22
Unknown	2,860†	208	2,646	10	278	2,565	*	16
<b>Mother's education</b>								
8th Grade or Less	1,831	151	1,678	*	206	1,615	8	*
Some High School	8,756	851	7,902	*	1,040	7,688	15	13
High School / GED	22,071	1,786	20,273	12	2,206	19,784	45	36
Some College	16,585	1,259	15,312	14	1,577	14,952	34	22
Associate Degree	6,742	482	6,256	*	663	6,063	10	6
Bachelor's Degree	14,658	1,010	13,638	10	1,276	13,342	31	9
Postgraduate Education	7,267	509	6,756	*	631	6,625	11	0
Unknown	450†	65	372	8	99	329	*	15
<b>Marital status</b>								
Married	42,381	2,893	39,465	23	3,841	38,416	91	33
Unmarried <sup>a</sup>	35,183	3,115	32,043	25	3,709	31,347	63	64
Unknown	790†	105	679	7	148	635	*	6
<b>Weight gain</b>								
Inadequate	17,900	2,050	15,831	19	2,227	15,614	30	29
Adequate	23,486	1,784	21,689	13	2,172	21,245	44	25
Excessive	35,762	2,126	33,623	13	3,087	32,572	77	26
Unknown	1,210†	153	1,044	10	212	967	*	23
<b>Smoking during pregnancy</b>								
Non-smoker	75,621	5,665	69,913	43	7,184	68,207	151	79
Light smoker (less than 10 cigarettes per day)	1,220†	185	1,029	*	218	993	*	6
Heavy smoker (10 or more cigarettes per day)	804	144	657	*	147	652	0	*
Unknown	710†	119	588	*	149	546	*	13

**TABLE 1B-32 (continued)  
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2022**

	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	1,829	321	1,501	7	517	1,274	10	28
1st trimester	56,004	4,187	51,808	9	5,331	50,610	62	*
2nd trimester	13,102	1,011	12,079	12	1,102	11,927	48	25
3rd trimester	4,487	263	4,221	*	297	4,165	22	*
Unknown	2,933	331	2,578	24	451	2,422	14	46
<b>Prenatal visits</b>								
No visits	1,829	321	1,501	7	517	1,274	10	28
1-4 visits	3,663	618	3,038	7	741	2,902	13	7
5-8 visits	13,261	1,744	11,509	8	2,234	10,999	20	8
9-12 visits	34,967	2,125	32,838	*	2,651	32,257	47	12
13+ visits	23,469	1,165	22,296	8	1,364	22,037	60	8
Unknown	1,166	140	1,005	21	191	929	6	40
<b>Newborn intensive care</b>								
Yes	5,713	2,800	2,904	9	3,358	2,330	12	13
No	72,642	3,313	69,283	46	4,340	68,068	144	90
<b>Method of delivery</b>								
Vaginal	53,908	2,962	50,898	48	3,756	49,956	106	90
C-Section	22,421	3,042	19,374	*	3,813	18,557	42	9
Forceps	240†	16	220	0	19	215	*	0
Vacuum	1,786	93	1,692	*	110	1,670	6	0
Unknown	0†	0	*	*	0	0	0	*
<b>Obstetric procedures<sup>b</sup></b>								
Total	39,692	2,266	37,423	3	2,633	36,954	87	18
Induction of labor	24,231	1,575	22,653	*	1,502	22,651	68	10
Augmentation of labor	22,270	1,021	21,248	*	1,465	20,751	42	12
Cervical cerclage	177	54	123	0	62	115	0	0
Tocolysis	263	90	173	0	117	146	0	0
External cephalic version successful	100†	6	97	0	10	92	*	0
External cephalic version failed	140†	*	141	0	7	137	0	0
Total	22,917	2,880	20,024	13	3,841	19,034	18	24
<b>Births with medical risk factors<sup>b</sup></b>								
Pre-existing diabetes	980†	122	857	0	280	697	*	*
Gestational diabetes	8,000†	692	7,307	*	1,038	6,960	*	*
Pre-existing hypertension	1,478	256	1,221	*	337	1,138	0	*
Gestational hypertension	7,757	1,344	6,411	*	1,705	6,037	8	7
Eclampsia	126	40	86	0	45	81	0	0
Previous preterm birth	3,390†	700	2,679	6	1,105	2,274	*	*
Other previous poor pregnancy outcome	4,240†	535	3,700	*	615	3,616	*	*
Gonorrhea	240†	37	200	0	33	203	*	0
Syphilis	350†	58	296	0	70	278	*	*
Chlamydia	1,840†	155	1,687	0	186	1,652	*	*
Hepatitis B	97	14	83	0	16	80	0	*
Hepatitis C	193	24	169	0	32	160	0	*

**TABLE 1B-32 (continued)  
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2022**

	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	24,282	2,807	21,458	17	3,368	20,813	67	34
Premature rupture of the membranes	3,875	787	3,087	*	1,082	2,779	9	*
Precipitous labor	4,815	399	4,407	9	459	4,336	7	13
Prolonged labor	2,012	172	1,839	*	215	1,781	14	*
Breech presentation	3,040†	884	2,154	*	1,021	2,014	*	*
Chorioamnionitis	1,692	117	1,575	0	151	1,532	8	*
Meconium staining of the amniotic fluid	5,457	240	5,216	*	280	5,139	31	7
Fetal intolerance	7,786	895	6,889	*	947	6,811	21	7
Maternal transfusion	500†	101	398	0	131	366	*	*
Third or fourth degree perineal laceration	450†	12	433	0	14	427	*	*
Ruptured uterus	30†	*	29	*	7	25	0	*
Unplanned Hysterectomy	41	11	30	0	16	25	0	0
Admission to intensive care unit	130†	48	77	*	61	63	*	*
Unplanned surgery following delivery	200†	27	172	*	39	160	*	0
<b>Abnormal conditions of the newborn<sup>b</sup></b>								
Total	4,124	1,683	2,433	8	2,010	2,097	8	9
Assisted ventilation immediately after delivery	3,386	1,379	1,999	8	1,611	1,762	6	7
Assisted ventilation for more than 6 hours	2,060†	1,133	922	6	1,321	731	*	*
Surfactant replacement therapy	370	293	76	*	326	43	0	*
Suspected neonatal sepsis	1,560†	808	751	*	958	594	*	*
Seizure or serious neurologic dysfunction	30†	*	23	*	9	19	0	0
Significant birth injury	50†	*	42	0	10	35	0	*
Total	335	105	227	3	107	223	0	5
<b>Congenital anomalies of the newborn<sup>b</sup></b>								
Anencephalus	0†	*	0	0	0	*	0	0
Spina bifida / Meningocele	20	10	10	0	10	10	0	0
Cyanotic congenital heart disease	62	18	44	0	14	48	0	0
Congenital diaphragmatic hernia	20†	*	11	0	*	11	0	0
Omphalocele / Gastroschisis	30	16	14	0	15	15	0	0
Limb reduction defect	10†	*	7	0	6	*	0	0
Cleft lip / palate	56	14	42	0	12	43	0	*
Down syndrome	59	22	37	0	25	33	0	*
Suspected chromosomal disorder	47	20	27	0	19	28	0	0
Hypospadias	20†	*	13	0	*	13	0	0
Unknown congenital anomalies	55	14	38	*	16	36	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> 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, 2022**

	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>	78,355	33	854	2,689	15,338	23,565	22,364	10,864	2,454	190	4	
<b>Mother's race/ethnicity</b>												
White non-Hispanic	32,790†	*	148	617	4,924	9,804	10,778	5,254	1,163	99	*	
Hispanic or Latino	33,584	21	570	1,636	8,236	10,567	7,995	3,651	848	60	0	
Black or African American	4,850†	*	60	193	985	1,389	1,363	673	167	13	0	
American Indian or Alaska Native	4,010†	7	69	218	967	1,101	1,039	494	112	*	0	
Asian or Pacific Islander	3,120†	0	7	25	226	704	1,189	792	164	15	0	
<b>Payer for birth</b>												
AHCCCS	36,055	23	665	2,172	10,116	10,934	7,804	3,444	824	71	*	
IHS	890†	*	18	39	217	253	242	97	22	*	0	
Private insurance	34,280†	*	95	314	3,702	10,184	12,275	6,292	1,326	89	*	
Self-pay	4,260†	*	51	100	673	1,291	1,312	638	179	16	0	
Unknown	2,860†	*	25	64	630	903	731	393	103	13	0	
<b>Mother's education</b>												
8th Grade or Less	1,831	19	76	100	330	445	398	316	135	12	0	
Some High School	8,756	13	681	1,121	2,722	1,980	1,387	662	170	20	0	
High School / GED	22,070†	0	88	1,232	6,990	6,989	4,485	1,854	411	22	0	
Some College	16,590†	0	*	200	3,510	5,767	4,676	1,990	421	16	0	
Associate Degree	6,740†	0	0	22	874	2,374	2,158	1,061	239	14	0	
Bachelor's Degree	14,660†	0	0	*	789	4,611	5,834	2,781	602	40	0	
Postgraduate Education	7,270†	0	0	0	72	1,302	3,293	2,117	444	39	0	
Unknown	450†	*	*	13	51	97	133	83	32	27	*	
<b>Marital status</b>												
Married	42,380†	0	8	244	4,408	13,106	15,192	7,636	1,663	123	*	
Unmarried*	35,183	33	846	2,435	10,842	10,233	6,931	3,079	740	43	*	
Unknown	790†	0	0	10	88	226	241	149	51	24	*	
<b>Weight gain</b>												
Inadequate	17,900	12	274	715	3,549	5,283	4,876	2,545	585	59	*	
Adequate	23,486	8	221	691	4,252	7,021	7,014	3,420	797	62	0	
Excessive	35,762	10	333	1,228	7,264	10,893	10,178	4,747	1,042	65	*	
Unknown	1,210†	*	26	55	273	368	296	152	30	*	0	
<b>Smoking during pregnancy</b>												
Non-smoker	75,621	31	833	2,611	14,851	22,791	21,547	10,443	2,343	167	*	
Light smoker (less than 10 cigarettes per day)	1,220†	0	11	33	221	349	384	168	43	9	0	
Heavy smoker (10 or more cigarettes per day)	800†	0	*	8	116	224	253	148	45	8	0	
Unknown	710†	*	8	37	150	201	180	105	23	6	0	
<b>Length of gestation</b>												
<37 weeks	7,700†	*	84	242	1,401	2,045	2,242	1,274	370	34	*	
37-41 weeks	70,398	29	765	2,440	13,882	21,451	20,054	9,548	2,074	153	*	
42+ weeks	160†	0	*	*	35	45	38	25	*	*	0	
Unknown	100†	0	*	*	20	24	30	17	*	*	0	
<b>Weight at birth</b>												
<1,000 grams	440†	0	11	14	97	115	118	63	19	*	0	
1,000-1,499	500†	0	7	25	95	135	139	73	23	*	*	
1,500-2,499	5,180†	*	79	192	993	1,360	1,489	811	223	24	0	
2,500-3,999	66,525	28	734	2,344	13,256	20,169	18,789	9,043	2,011	148	*	
4,000+ grams	5,660†	*	22	113	890	1,775	1,812	862	173	14	0	
Unknown	60†	0	*	*	7	11	17	12	*	*	0	

**TABLE 1B-33 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2022**

	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	1,829	6	59	103	444	492	413	225	73	13	*			
1st trimester	56,004	9	387	1,502	10,239	17,067	16,808	8,129	1,749	112	*			
2nd trimester	13,102	9	242	669	2,935	3,832	3,298	1,655	427	34	*			
3rd trimester	4,487	8	130	302	1,110	1,260	1,053	479	130	15	0			
Unknown	2,930†	*	36	113	610	914	792	376	75	16	0			
<b>Prenatal visits</b>														
No visits	1,829	6	59	103	444	492	413	225	73	13	*			
1-4 visits	3,663	7	105	223	914	1,039	875	400	90	9	*			
5-8 visits	13,260†	*	209	656	2,998	3,957	3,466	1,552	388	30	0			
9-12 visits	34,967	10	309	1,023	6,565	10,657	10,424	4,872	1,040	65	*			
13+ visits	23,470†	*	155	631	4,183	7,044	6,864	3,683	839	65	0			
Unknown	1,170†	0	17	53	234	376	322	132	24	8	0			
<b>Newborn intensive care</b>														
Yes	5,710†	*	68	196	1,093	1,553	1,615	897	255	31	*			
No	72,642	30	786	2,493	14,245	22,012	20,749	9,967	2,199	159	*			
<b>Method of delivery</b>														
Vaginal	53,908	28	679	2,151	11,500	16,863	14,682	6,560	1,358	84	*			
C-Section	22,420†	*	132	445	3,360	6,131	7,136	4,078	1,036	99	*			
Forceps	240†	*	*	10	52	67	62	32	8	*	0			
Vacuum	1,790†	*	40	83	426	502	484	194	52	*	0			
Unknown	0†	0	*	0	0	*	0	0	0	*	0			
<b>Obstetric procedures<sup>b</sup></b>														
Total	39,692	20	522	1,689	8,776	12,166	10,276	5,009	1,158	75	1			
Induction of labor	24,231	10	264	894	5,048	7,272	6,320	3,483	885	55	0			
Augmentation of labor	22,270	16	329	1,052	5,201	6,977	5,677	2,507	477	33	*			
Cervical cerclage	180†	0	*	*	14	46	61	39	12	0	0			
Tocolysis	260†	0	*	14	64	73	74	23	11	*	*			
External cephalic version successful	100†	0	0	*	11	25	36	24	6	0	0			
External cephalic version failed	140†	0	*	*	20	39	51	20	9	*	0			
<b>Births with medical risk factors<sup>b</sup></b>														
Total	22,917	8	189	653	3,966	6,398	6,682	3,905	1,035	78	3			
Pre-existing diabetes	980†	0	*	14	99	264	286	215	86	12	0			
Gestational diabetes	8,000†	0	17	91	909	2,147	2,626	1,707	470	33	*			
Pre-existing hypertension	1,480†	0	*	13	148	356	471	335	140	12	*			
Gestational hypertension	7,760†	*	68	274	1,598	2,148	2,108	1,238	290	28	0			
Eclampsia	130†	0	*	*	20	29	37	22	12	*	0			
Previous preterm birth	3,390†	0	*	31	423	915	1,095	702	201	13	*			
Other previous poor pregnancy outcome	4,240†	0	12	61	621	1,272	1,339	725	198	10	0			
Gonorrhea	240†	*	16	24	73	67	35	15	*	*	0			
Syphilis	350†	0	*	15	92	94	99	45	*	*	0			
Chlamydia	1,840†	*	90	227	735	467	222	82	15	*	0			
Hepatitis B	100†	0	0	*	14	22	32	19	6	*	0			
Hepatitis C	190†	0	0	*	24	52	83	25	7	*	0			

**TABLE 1B-33 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2022**

	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	24,282	11	314	901	4,944	7,195	6,858	3,275	734	50	0			
Premature rupture of the membranes	3,880†	*	56	176	901	1,120	1,048	456	111	6	0			
Precipitous labor	4,820†	*	40	106	749	1,390	1,577	792	148	11	0			
Prolonged labor	2,010†	0	23	82	474	615	553	212	51	*	0			
Breech presentation	3,040†	*	20	65	472	817	952	567	132	14	0			
Chorioamnionitis	1,690†	*	39	109	482	518	367	141	32	*	0			
Meconium staining of the amniotic fluid	5,460†	*	85	250	1,206	1,710	1,431	632	132	8	0			
Fetal intolerance	7,790†	*	102	330	1,734	2,325	2,044	996	238	15	0			
Maternal transfusion	500†	*	8	20	93	150	137	64	25	*	0			
Third or fourth degree perineal laceration	450†	*	14	19	105	126	134	39	7	0	0			
Ruptured uterus	30†	0	0	0	*	12	14	*	*	0	0			
Unplanned Hysterectomy	40†	0	0	0	*	10	16	8	6	0	0			
Admission to intensive care unit	130†	0	*	*	20	31	36	25	12	0	0			
Unplanned surgery following delivery	200†	*	*	7	33	46	72	32	7	0	0			
<b>Abnormal conditions of the newborn<sup>b</sup></b>														
Total	4,120†	5	52	162	800	1,165	1,119	621	182	17	1			
Assisted ventilation immediately after delivery	3,390†	*	37	125	654	989	905	511	148	12	*			
Assisted ventilation for more than 6 hours	2,060†	*	30	77	377	558	580	335	94	7	*			
Surfactant replacement therapy	370†	0	*	17	81	80	113	53	21	0	*			
Suspected neonatal sepsis	1,560†	*	25	71	339	420	419	208	65	9	*			
Seizure or serious neurologic dysfunction	30†	0	0	*	*	7	8	*	*	0	0			
Significant birth injury	50†	0	*	*	*	15	14	*	*	0	0			
<b>Congenital anomalies of the newborn<sup>b</sup></b>														
Total	340†	0	6	17	50	90	93	50	25	4	0			
Anencephalus	0†	0	0	0	0	0	0	*	0	0	0			
Spina bifida / Meningocele	20†	0	*	0	*	*	7	*	*	*	0			
Cyanotic congenital heart disease	60†	0	*	*	8	11	25	10	*	0	0			
Congenital diaphragmatic hernia	20†	0	0	*	*	6	*	*	*	0	0			
Omphalocele / Gastroschisis	30†	0	*	*	8	8	*	*	0	0	0			
Limb reduction defect	10†	0	0	*	*	*	*	0	*	0	0			
Cleft lip / palate	60†	0	*	*	9	16	19	8	*	0	0			
Down syndrome	60†	0	0	*	*	14	13	17	11	*	0			
Suspected chromosomal disorder	50†	0	*	*	7	8	14	6	9	0	0			
Hypospadias	20†	0	0	*	6	*	*	*	0	*	0			
Unknown congenital anomalies	60†	0	0	*	9	18	14	8	*	*	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, 2022**

	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>	335	194	141	130	79	51	148	81	67	13	7	6	33	17	16	11	10	1
<b>Anencephalus</b>	0†	0	*	0†	0	*	0	0	0	0	0	0	0	0	0	0	0	0
<b>Spina bifida / Meningocele</b>	20	6	14	10†	0	*	10†	*	8	0	0	0	0†	*	*	0	0	0
<b>Cyanotic congenital heart disease</b>	62	36	26	29	17	12	25	15	10	0†	*	*	10†	*	*	0†	0	*
<b>Congenital diaphragmatic hernia</b>	20†	*	10	10†	*	*	10†	*	6	0	0	0	0†	0	*	0†	0	*
<b>Omphalocele / Gastroschisis</b>	30	18	12	10†	6	*	16	7	9	0†	*	0	0†	*	*	0†	*	0
<b>Limb reduction defect</b>	10†	*	7	0†	*	*	10†	*	*	0†	0	*	0	0	0	0	0	0
<b>Cleft lip / palate</b>	56	35	21	19	12	7	22	15	7	0†	*	*	10†	*	*	0†	*	0
<b>Down syndrome</b>	59	33	26	23	11	12	25	14	11	0†	*	0	10†	*	*	0†	*	0
<b>Suspected chromosomal disorder</b>	47	29	18	20†	11	*	27	14	13	0†	*	0	0†	*	0	0†	*	0
<b>Hypospadias</b>	20†	17	*	7	7	0	9	9	0	0†	*	0	0†	0	*	0	0	0
<b>Unknown congenital anomalies</b>	55	30	25	27	15	12	19	10	9	0†	*	*	10†	*	*	0†	*	0
<b>Ratio per 100 births<sup>a</sup></b>	<b>0.4</b>	<b>0.5</b>	<b>0.4</b>	<b>0.4</b>	<b>0.5</b>	<b>0.3</b>	<b>0.4</b>	<b>0.5</b>	<b>0.4</b>	<b>0.3</b>	<b>0.3</b>	<b>0.3</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.4</b>	<b>0.6</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.**

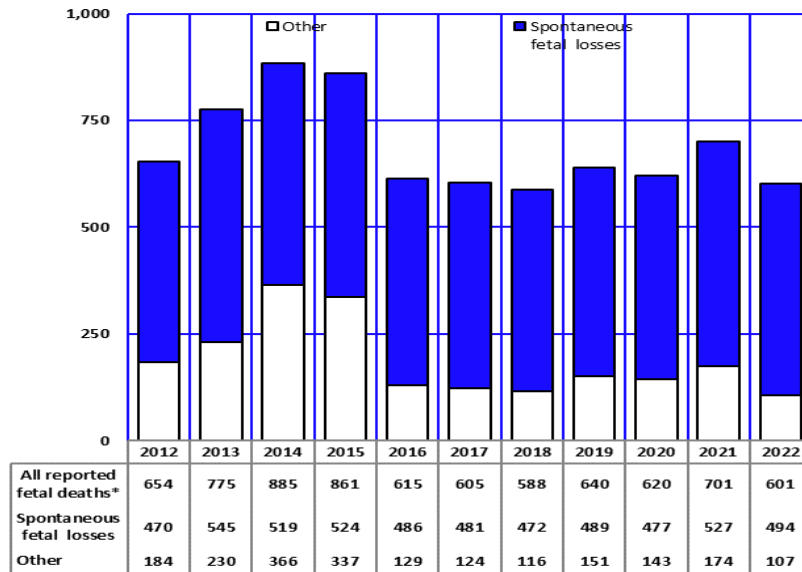
### **FETAL, PERINATAL, AND MATERNAL DEATHS**

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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

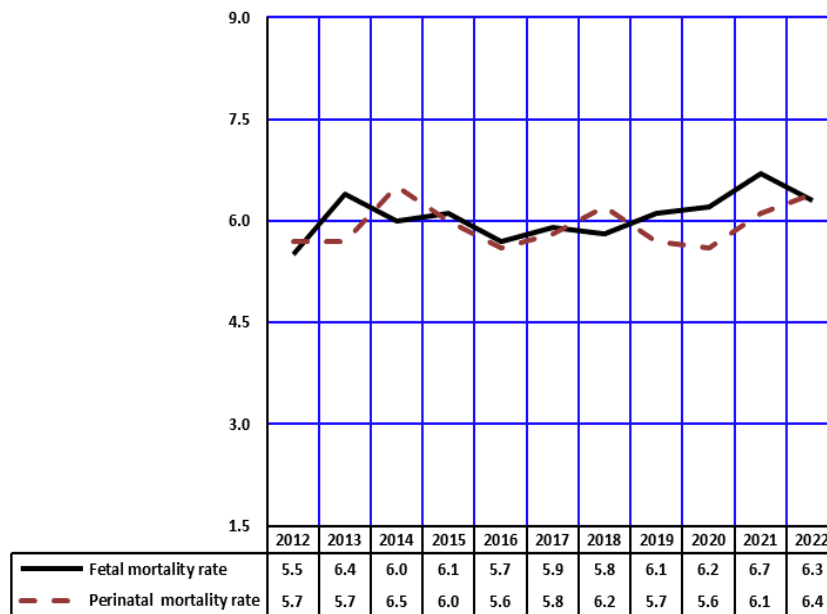
**Figure 1C-1**  
Trends in Fetal Deaths, Arizona, 2012-2022



The number of all reported fetal deaths in Arizona (including late term abortions) in 2022 was 601, a 14.3 percent decrease from 2021 (**Figure 1C-1, Table 1C-3**). The annual number of reportable spontaneous fetal losses decreased 6.6 percent from 527 in 2021 to 494 in 2022. (**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, 2012-2022



The fetal mortality rate decreased slightly from a rate of 6.7 deaths at 20 or more weeks of gestation per 1,000 live births in 2021 to a rate of 6.3 deaths in 2022.

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 had a slight decrease at 5 in 2011, but then increased again at 7 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 and 6.4 in 2022 (**Figure 1C-2, Table 1C-3**).

Early infant deaths accounted for 261 or 52.1 percent of the 501 perinatal deaths in 2022 (**Figure 1C-2, Table 1C-3**).

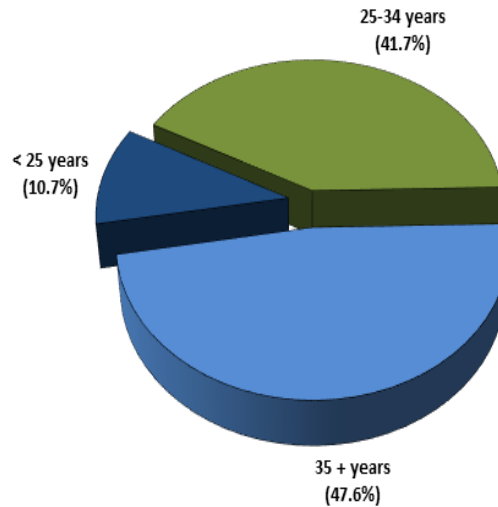
Notes: <sup>a</sup>Rate is the number of events per 1,000 live births and fetal deaths. <sup>b</sup> Infant deaths of less than 7 days and fetal deaths with gestation of 28 weeks or more, per 1,000 live births and fetal deaths.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

**Figure 1C-3**  
**Percent of Death from Maternal Causes by Mother's Age Group, Arizona, 2012-2022**

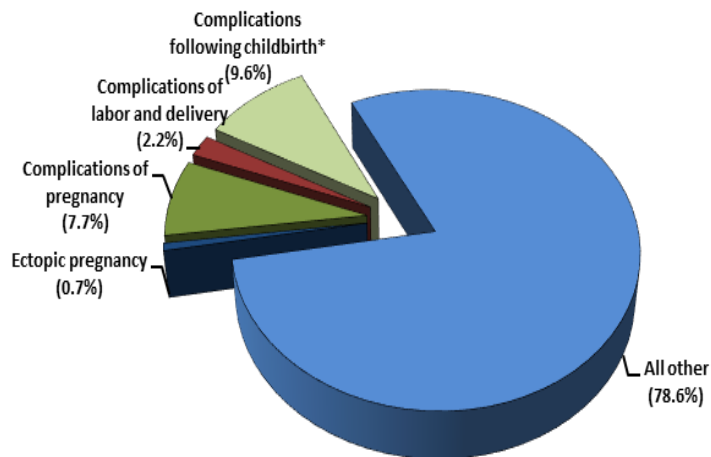
In 2022, 26 women giving birth were reported to have died from maternal causes (**Table 1C-1**). This represents a 31.6 percent decrease from the number of maternal deaths recorded in 2021. The number of maternal deaths does not include all deaths occurring to pregnant women, but only those deaths assigned to causes related to or aggravated by pregnancy or pregnancy management.

Based on the total number of 271 maternal deaths from 2012 to 2022, 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, 2012-2022**

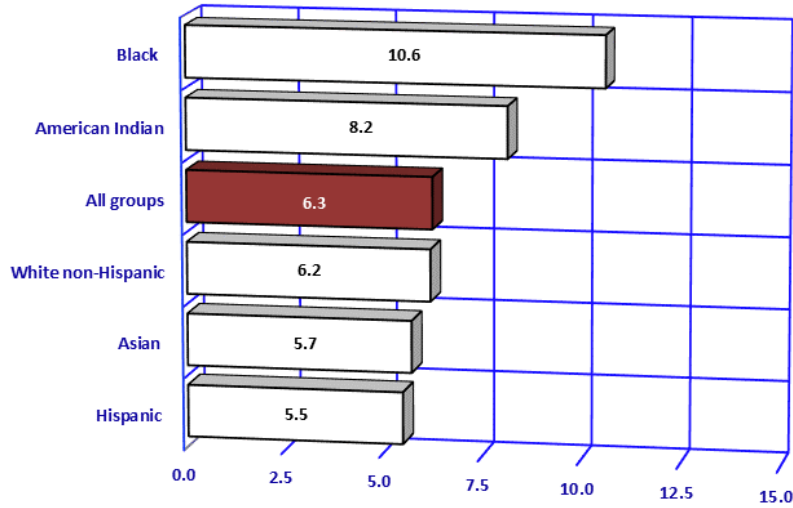
In the eleven-year period from 2012 to 2022, the major causes of maternal deaths in the state have included complications following childbirth (i.e. complications of the puerperium), complications mainly related to pregnancy, complications occurring in the course of labor and delivery, and ectopic pregnancy. All other possible causes of maternal death accounted for 78.6 percent of the maternal deaths from 2012 to 2022 (**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

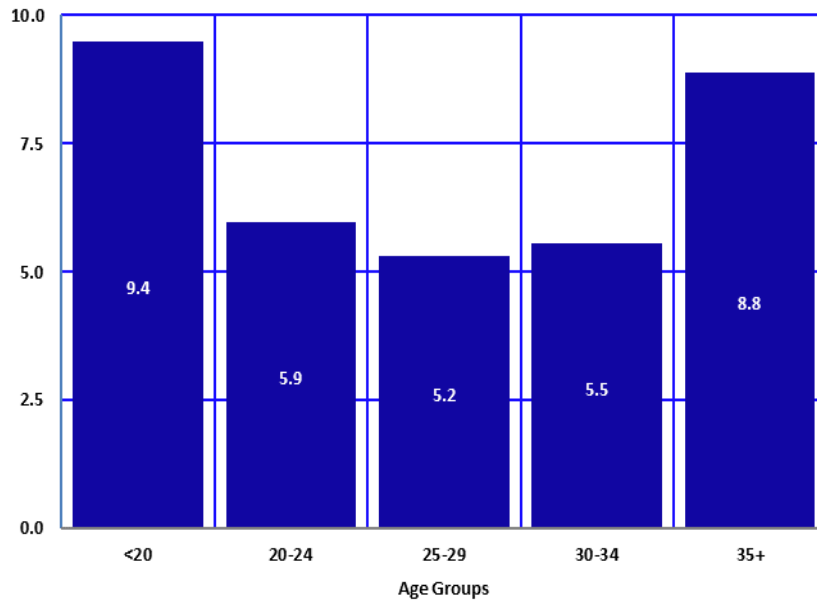
**Figure 1C-5**  
**Fetal Mortality Rates by Race/Ethnicity, Arizona, 2022**



Fetal mortality rates vary by the race/ethnicity of the mother (**Figure 1C-5**). The fetal mortality rate for Black or African American women was 10.6 per 1,000 live births plus fetal deaths, the highest rate among the racial/ethnic groups. The fetal mortality rate was also higher than the state average for American Indian or Alaska Native women (8.2) while the rates of White non-Hispanic women (6.2), Asian or Pacific Islander (5.7), and Hispanic or Latino (5.5), 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, 2022**



Fetal mortality rates vary by maternal age (**Figure 1C-6**). In 2022 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 8.1 in 2021 to 8.8 in 2022.

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, 2012-2022**

Year	Total maternal deaths <sup>b</sup>	Under <15	15-19	20-24	25-29	30-34	35-39	40-44	45+
2012	20†	0	0	0	*	*	*	*	*
2013	10†	0	0	*	*	*	*	0	*
2014	10†	0	*	0	*	0	*	*	*
2015	10†	0	0	0	*	0	*	*	0
2016	30†	0	*	*	*	7	*	*	0
2017	20†	0	*	*	*	*	9	*	0
2018	30†	0	0	*	*	9	6	*	9
2019	40†	0	0	*	6	10	11	*	9
2020	40†	0	*	*	9	12	8	*	0
2021	40†	0	0	*	9	10	12	*	0
2022	30†	0	*	*	7	6	*	*	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <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, 2012-2022**

Cause of death (ICD-9/ICD-10 codes)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>PREGNANCY WITH ABORTIVE OUTCOME (O00-O07)</b>	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	*	*	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	22
<b>TOTAL</b>	20†	10†	10†	10†	30†	23	30†	40†	40†	40†	30†

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, 2012-2022**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<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.	654	775	885	861	615	605	588	640	620	701	601
<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).	588	554	653	665	613	602	583	638	617	698	595
<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	545	519	524	486	481	472	489	477	527	494
<b>RATE OF REPORTABLE SPONTANEOUS FETAL LOSSES<sup>a</sup></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>6.3</b>
<b>NUMBER OF PERINATAL DEATHS</b>	487	483	551	510	475	472	501	453	434	480	501
Spontaneous fetal losses of 28 or more weeks of gestation	221	262	265	275	236	238	247	247	223	242	240
Infant deaths of less than 7 days	266	221	286	235	239	234	254	206	211	238	261
<b>PERINATAL DEATH RATE<sup>b</sup></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>	<b>6.4</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, 2012-2022**

Characteristic	Year										
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Total reportable spontaneous fetal losses</b>	470	545	519	524	486	481	472	489	477	527	494
<b>Gender</b>											
Male	239	260	293	296	248	226	222	271	236	254	267
Female	222	256	222	225	227	234	246	215	219	223	221
Unknown	9	29	*	*	11	21	*	*	22	50	6
<b>Mother's race/ethnicity</b>											
White non-Hispanic	195	247	205	200	204	207	205	187	186	214	205
Hispanic or Latino	181	205	182	227	195	171	174	196	177	202	186
Black or African American	36	40	48	50	47	47	42	58	50	64	52
American Indian or Alaska Native	43	40	47	40	36	40	36	37	41	26	33
Asian or Pacific Islander	15	13	17	7	*	16	15	11	23	21	18
Refused/Unknown	0	0	20	0	0	0	0	0	0	0	0
<b>Mother's age group</b>											
<15	*	0	0	0	0	0	0	0	*	*	0
15-17	16	18	25	18	10	7	8	7	10	*	9
18-19	37	34	27	30	27	25	16	26	16	27	25
20-24	130	115	120	101	94	104	85	89	107	108	91
25-29	100	159	131	135	123	118	138	132	123	142	124
30-34	98	123	117	122	121	125	125	133	116	135	123
35-39	58	79	67	83	71	75	75	76	86	81	89
40-44	27	13	30	27	36	18	22	24	14	26	29
45+	*	*	0	*	*	*	*	0	*	*	*
Unknown	*	*	*	*	*	6	0	*	0	*	*
<b>Gestational age<sup>b</sup></b>											
20-27 weeks	248	282	250	248	239	241	223	242	254	283	248
28+ weeks	221	262	265	275	236	238	247	247	223	242	240
Unknown	*	*	*	*	11	*	*	0	0	*	6
<b>Weight in grams</b>											
<350 grams	119	108	99	117	97	99	93	120	103	113	109
350-499	68	73	74	75	77	75	60	61	73	90	66
500-2,499	179	229	236	216	217	199	216	202	210	240	232
2,500-3,999	87	103	85	85	77	81	91	95	71	69	74
4,000+	14	6	9	9	6	14	8	7	12	11	6
Unknown	*	26	16	22	12	13	*	*	8	*	7

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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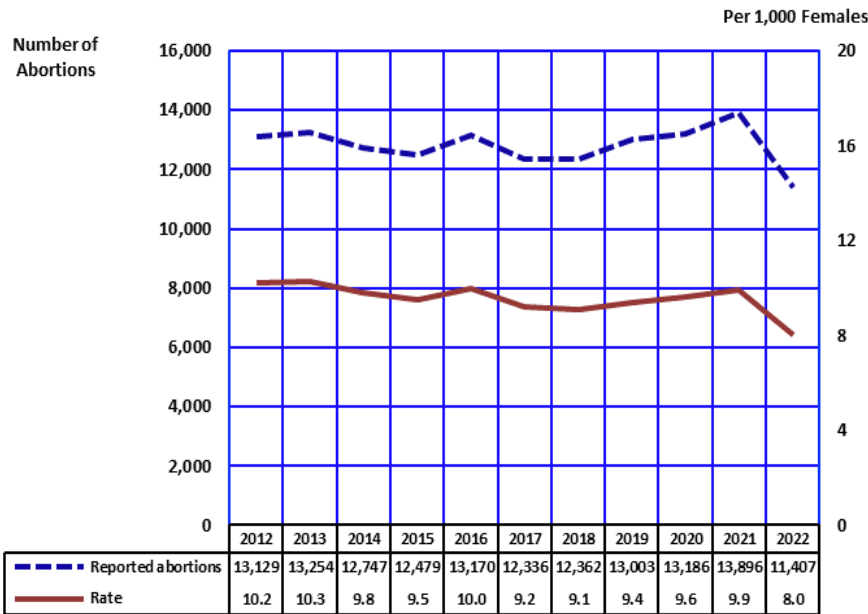
The Arizona Department of Health Services was authorized by Arizona Revised Statute §36-2161 to require healthcare facilities, providers, and physicians to submit abortion procedure reports to the department in order to develop statewide annual abortion statistics and demographic characteristics of women 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 2022, 2.5 percent (286) of abortion records had race and ethnicity identified as unknown, and 2.2 percent (254) 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, 2012-2022**



During calendar year 2022, the Arizona Department of Health Services received a total of 11,407 reports of abortions obtained by Arizona residents, 2,489 less than the 13,896 reported in 2021 (**Figure 1D-1, Table 1D-1**).

There were 11,373 abortions in non-hospital clinics (**Table 1D-1**). Hospitals accounted for 29 abortion procedures, with five procedures being performed outside of clinics or hospitals.

Ninety-two percent of all reported abortions occurred at or before 13 weeks of pregnancy. Few (7.6%) 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, 2012-2022**

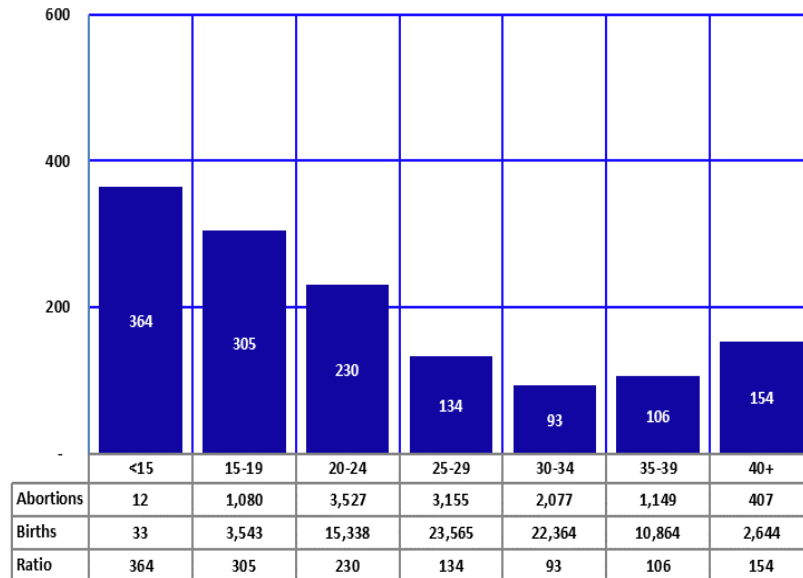


The rate of induced terminations of pregnancy per 1,000 female residents aged 15-44 decreased from 9.9 in 2021 to 8.0 in 2022 (**Figure 1D-1**).

Trends in the percent of abortions conducted through surgical and non-surgical from 2012 to 2022 indicate shifting practices in methods used to complete abortions. In 2012, 68.0 percent of all abortion procedures were surgical procedures. Since then, the proportion of abortions conducted through surgical means has decreased, with 49.2 percent of all abortion procedures conducted in 2022 being surgical procedures.

## 1D. ABORTIONS

**Figure 1D-3**  
Abortion Ratios<sup>a</sup> by Age Group, Arizona Residents, 2022

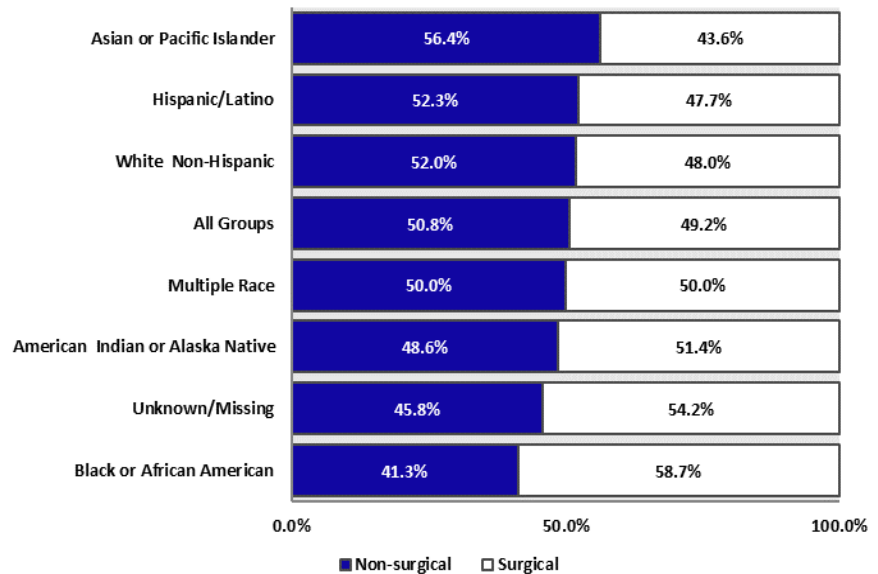


Abortion ratios (the number of abortions per 1,000 live births in each age group) vary by age at reported termination of pregnancy. Ratios were higher at the lower end of the age distribution of the childbearing period, i.e., among women under age 15, 15-19, and 20-24 years of age (**Figure-1D-3**).

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, 2022



In 2022, non-surgical (also called “medical”) abortions made up 50.8 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, 2012-2022**

Characteristics	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>ABORTIONS PERFORMED IN ARIZONA</b>	13,340	13,401	12,900	12,655	13,332	12,533	12,438	13,097	13,273	13,998	11,530
<b>RESIDENT ABORTIONS</b>	13,129	13,254	12,747	12,479	13,170	12,336	12,362	13,003	13,186	13,896	11,407
<b>RACE/ETHNICITY</b>											
White non-Hispanic	1,904	2,515	5,562	5,378	5,321	4,762	4,807	4,798	4,684	4,645	3,761
Hispanic or Latino	3,393	4,189	4,499	4,350	4,823	4,639	4,679	5,093	5,349	6,080	5,103
Black or African American	116	189	981	1,074	1,253	1,196	1,229	1,372	1,594	1,662	1,314
American Indian	38	61	291	331	340	348	315	344	372	399	276
Asian or other Pacific Islander	75	110	534	532	608	598	552	612	550	530	413
Multiple race <sup>a</sup>	2,985	4,257	361	175	244	216	259	290	323	317	254
Refused/Unknown	4,618	1,933	519	639	581	577	521	494	314	263	286
<b>AGE</b>											
19 years and under	1,539	1,441	1,249	1,189	1,297	1,179	1,146	1,169	1,218	1,299	1,092
20-29 years	7,602	7,676	7,520	7,265	7,680	7,245	7,212	7,520	7,644	8,067	6,682
30 years and over	3,987	4,136	3,978	4,021	4,186	3,912	4,004	4,314	4,324	4,530	3,633
Not stated	*	*	0	*	7	0	0	0	0	0	0
<b>YEARS OF EDUCATION</b>											
Elementary/secondary (1-12)	3,615	2,400	1,372	2,561	3,234	3,228	3,457	3,971	3,820	4,659	3,563
College (1-4 or 5+)	2,518	2,522	2,706	3,203	3,801	3,365	2,966	3,355	3,045	3,864	2,896
None, not stated, or unknown	6,996	8,332	8,064	6,715	6,135	5,743	5,939	5,677	6,321	5,373	4,948
<b>WEEKS OF GESTATION</b>											
12 weeks or under	11,677	11,742	11,232	11,062	11,762	10,917	10,924	11,510	11,708	12,066	10,238
13 weeks or over	1,432	1,487	1,507	1,411	1,396	1,419	1,438	1,493	1,478	1,830	1,058
Not stated or unknown	20	25	8	6	12	0	0	0	0	0	111
<b>FACILITY</b>											
Clinic	13,072	13,023	12,671	12,065	13,139	12,301	12,308	12,957	13,140	13,838	11,373
Hospital	54	152	70	24	27	31	51	41	41	58	29
Other	*	79	6	390	*	*	*	*	*	0	*

**TABLE 1D-1 (continued)  
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 2012-2022**

Characteristics	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>PREVIOUS LIVE BIRTHS</b>											
None	5,829	5,810	5,201	5,267	5,586	5,326	5,430	5,656	5,705	6,159	5,351
One or more	7,280	7,387	7,337	7,187	7,542	6,972	6,856	7,212	7,365	7,596	5,874
<b>PREVIOUS ABORTIONS</b>											
None	8,445	8,450	7,872	7,843	8,177	7,900	7,893	8,406	8,503	9,148	7,410
One or more	4,616	4,672	4,616	4,549	4,913	4,365	4,346	4,424	4,533	4,553	3,775
<b>PREVIOUS SPONTANEOUS TERMINATIONS OF PREGNANCY</b>											
None	10,941	10,825	10,241	10,146	10,462	9,930	9,932	10,460	10,532	10,976	9,012
One or more	2,108	2,283	2,213	2,220	2,613	2,307	2,302	2,324	2,456	2,613	2,062
<b>NONSURGICAL ABORTIONS</b>											
	4,198	3,731	3,550	3,996	4,412	4,529	4,973	5,156	6,624	6,715	5,791
<b>ABORTION RATIO<sup>b</sup></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>145.6</b>
<b>ABORTION RATE<sup>c</sup></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>	<b>8.0</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, 2012-2022**

Race and Ethnicity	Year											
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
<b>Percent of Abortions<sup>b</sup></b>												
White non-Hispanic	14.5	19.0	43.6	43.1	40.4	38.6	38.9	36.9	35.5	33.4	33.0	
Hispanic or Latino	25.8	31.6	35.3	34.9	36.6	37.6	37.8	39.2	40.6	43.8	44.7	
Black or African American	0.9	1.4	7.7	8.6	9.5	9.7	9.9	10.6	12.1	12.0	11.5	
American Indian or Alaska Native	0.3	0.5	2.3	2.7	2.6	2.8	2.5	2.6	2.8	2.9	2.4	
Asian or Pacific Islander	0.6	0.8	4.2	4.3	4.6	4.8	4.5	4.7	4.2	3.8	3.6	
Multiple races	22.7	32.1	2.8	1.4	1.9	1.8	2.1	2.2	2.5	2.3	2.2	
Refused/Unknown	35.2	14.6	4.1	5.1	4.4	4.7	4.2	3.8	2.4	1.9	2.5	
<b>Abortion Rates<sup>c</sup></b>												
White non-Hispanic	2.9	3.8	8.6	8.3	8.3	7.4	7.5	7.4	7.3	7.1	5.7	
Hispanic or Latino	7.7	9.3	10.6	9.1	9.9	9.3	9.2	9.7	10.2	11.4	9.4	
Black or African American	2.0	3.2	12.8	16.3	18.4	17.0	16.8	18.0	20.2	20.3	15.8	
American Indian or Alaska Native	0.6	0.9	3.4	5.1	5.2	5.2	4.7	5.1	5.7	6.0	4.1	
Asian or Pacific Islander	1.6	2.3	8.5	9.2	10.1	9.9	8.8	9.1	8.1	7.7	5.9	
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	49	66	139	141	141	133	138	141	142	137	115	
Hispanic or Latino	102	127	133	127	142	140	142	156	168	188	152	
Black or African American	25	40	217	246	286	260	264	282	334	347	271	
American Indian or Alaska Native	7	11	57	65	68	72	67	77	91	102	69	
Asian or Pacific Islander	21	32	169	164	181	180	169	194	185	176	132	
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, 2022**

Age	Gestational Age					
	≤13 weeks		14 to 20 weeks		≥21 or more weeks	
	Count	Percent	Count	Percent	Count	Percent
<15 yrs	12	100.0	0	0.0	0	0.0
15-19 yrs	961	89.0	97	9.0	22	2.0
20-24 yrs	3,261	92.5	228	6.5	38	1.1
25-29 yrs	2,952	93.6	170	5.4	33	1.0
30-34 yrs	1,925	92.7	125	6.0	27	1.3
35-39 yrs	1,052	91.6	83	7.2	14	1.2
≥40 yrs	376	92.4	29	7.1	*	**
<b>Totals</b>	<b>10,539</b>	<b>92.4</b>	<b>732</b>	<b>6.4</b>	<b>140†</b>	<b>1.2</b>

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

**TABLE 1D-4  
ABORTIONS BY WEEK OF GESTATION AND RACE/ETHNICITY, ARIZONA, 2022**

Week of gestation	Total	Race/ethnicity							Refused / Unknown race
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Multiple race		
<b>Total</b>	11,407	3,761	5,103	1,310†	280†	410†	250†	290†	
<b>6 weeks or less</b>	3,397	1,264	1,429	327	55	147	74	101	
<b>7</b>	2,442	836	1,093	259	43	103	50	58	
<b>8</b>	1,611	493	733	209	41	53	39	43	
<b>9</b>	1,218	349	617	145	23	34	26	24	
<b>10</b>	806	248	362	114	27	25	10	20	
<b>11</b>	458	138	198	72	17	11	12	10	
<b>12</b>	310†	81	145	41	15	*	9	10	
<b>13</b>	301	92	140	36	13	7	9	*	
<b>14</b>	210†	56	96	35	6	*	*	*	
<b>15</b>	170†	49	76	25	9	*	*	*	
<b>16</b>	90†	24	43	13	*	*	*	*	
<b>17</b>	90†	38	34	12	*	6	*	0	
<b>18</b>	70†	18	29	8	6	*	*	0	
<b>19</b>	60†	14	28	*	*	*	*	*	
<b>20</b>	50†	12	22	*	*	*	*	0	
<b>21+</b>	140†	49	58	10	6	*	7	*	

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