

# **CHAPTER 1**

## **REPRODUCTIVE AND PERINATAL HEALTH, ARIZONA, 2004-2014**

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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**

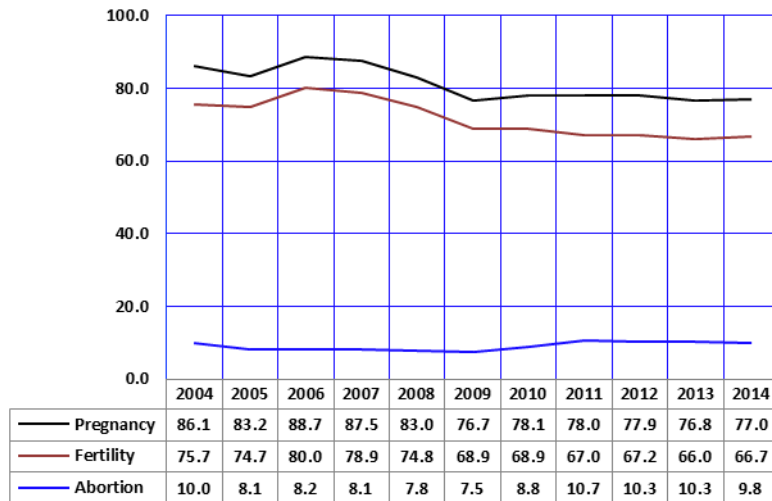
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The expression “reproductive and perinatal health” refers to a variety of health and sociodemographic characteristics of women who became pregnant, factors related to the course of their pregnancies, and the status of pregnancy outcomes. In this report, 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 99,914 pregnancies in Arizona in 2014 compared to 98,762 in 2013 and 103,172 in 2009. The number of resident live births increased by 2.0 percent from 84,963 in 2013 to 86,648 in 2014 (**Table 1A-1**). The number of reported abortions decreased by 3.8 percent, from 13,254 in 2013 to 12,747 in 2014. The number of reportable spontaneous fetal losses decreased 4.8 percent from 545 in 2013 to 519 in 2014.

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, 2004 - 2014**



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 increased from 76.8 pregnancies per 1,000 females of childbearing age in 2013 to 77.0/1,000 in 2014 (**Figure 1A-1, Table 1A-1**).

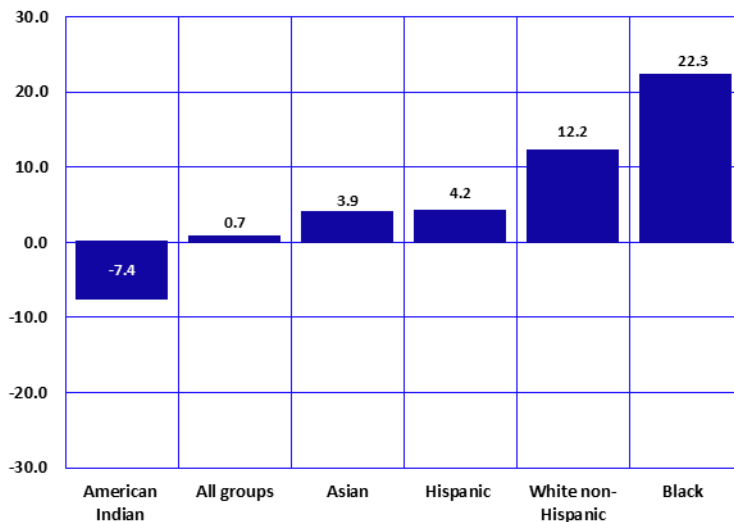
The fertility rate (the number of births per 1,000 women of childbearing age) also increased from 66.0/1,000 in 2013 to 66.7/1,000 in 2014. The fertility rate in 2014 was 16.6 percent lower than the recent high of 2006.

The abortion rate (the number of abortions per 1,000 women of childbearing age) decreased 4.9 percent from 2013 to 2014.

It is important to note that the number of females aged 15-44 years estimated in 2014 (n=1,298,305) was lower than in 2013 (n = 1,286,457).

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

**Figure 1A-2**  
**Percent Change from 2011 to 2014 in the Number of Pregnancies by Woman's Race/Ethnicity, Arizona**



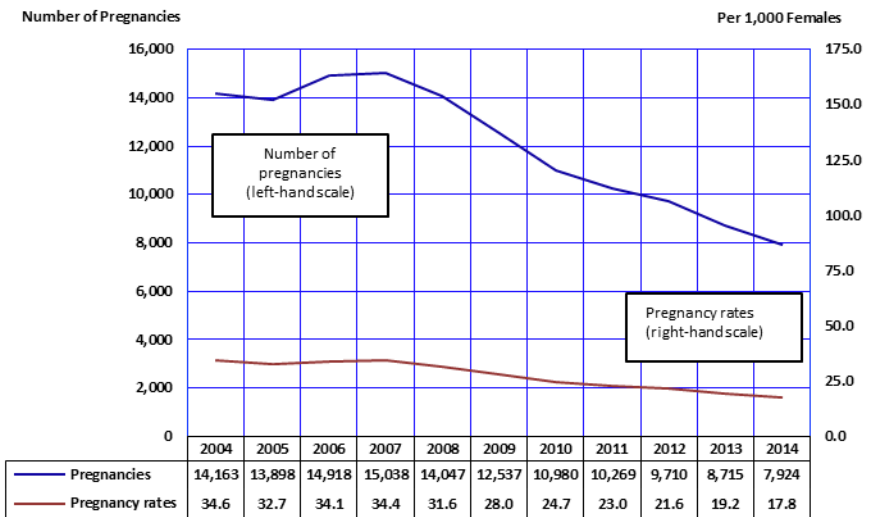
Overall, pregnancies in Arizona increased 0.7 percent from 2011 to 2014. The changes in number of pregnancies varied by race/ethnicity. The overall number of pregnancies increased for almost all racial/ethnic groups from 2011 to 2014, except among American Indian females. Black females (22.3 percent) and White non-Hispanic females (12.2 percent) experienced the largest percent increase in number of pregnancies from 2011 to 2014, while the number of pregnancies for American Indian females decreased 7.4 percent from 2011 to 2014 (**Figure 1A-2, Table 1A-1**).

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

**Figure 1A-3**  
Trends in the Number of Pregnancies and Pregnancy Rates<sup>a</sup> among Females 19 or Younger, Arizona, 2004 - 2014

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 47.3 percent from 15,038 in 2007 to 7,924 in 2014 (Figure 1A-3). The teen pregnancy rate declined even more, by 48.2 percent, from 34.4 pregnancies per 1,000 females 10-19 years in 2007 to 17.8/1,000 in 2014. The number of teenage pregnancies and the teen pregnancy rate of 2014 were the lowest recorded since at least 1980.

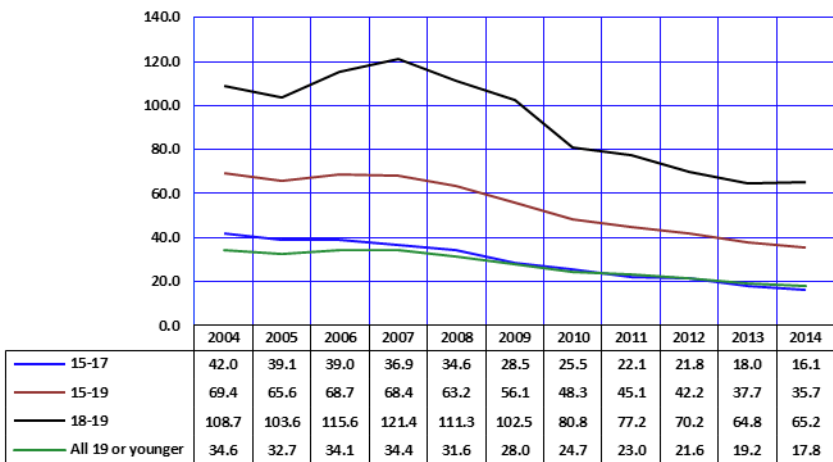


Note: <sup>a</sup> Pregnancy rate is the number of pregnancies per 1,000 females in specified age group.

**Figure 1A-4**  
Pregnancy Rates<sup>a</sup> by Age Group and Year among Females 19 or Younger, Arizona, 2004 - 2014

The pregnancy rate for Arizona teenagers 15-19 years old in 2014 was 35.7 pregnancies per 1,000 females (Figure 1A-4, Table 5A-2), 5.3 percent lower than 2013 and 47.8 percent lower than in 2007. The pregnancy rate for younger teenagers 15-17 years old declined by 56.4 percent (Table 1A-3) from 36.9/1,000 in 2007 to 16.1/1,000 in 2014. The pregnancy rate for older teenagers 18-19 years old declined by 46.3 percent from 121.4/1,000 in 2007 to 65.2/1,000 in 2014 (Table 1A-4).

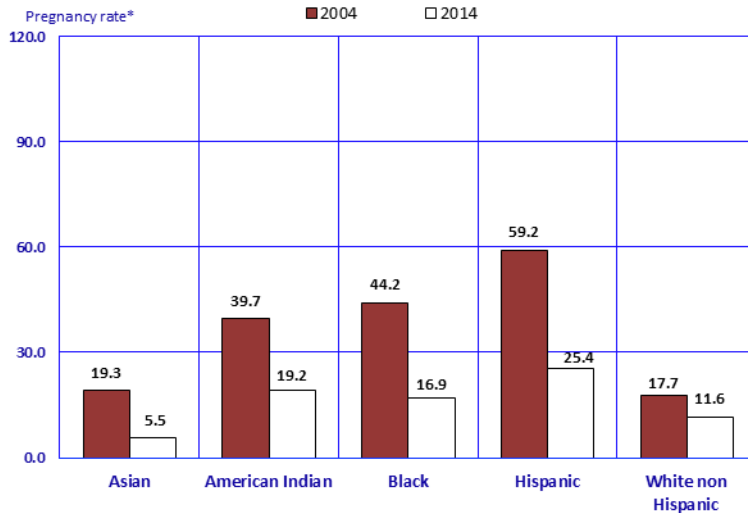
County-level information about teen pregnancies and pregnancy rates is provided in Table 5A-2, Table 5A-3, and Table 5A-5. Pregnancy statistics for Arizona are not available on a sub-county level.



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, 2004, and 2014**



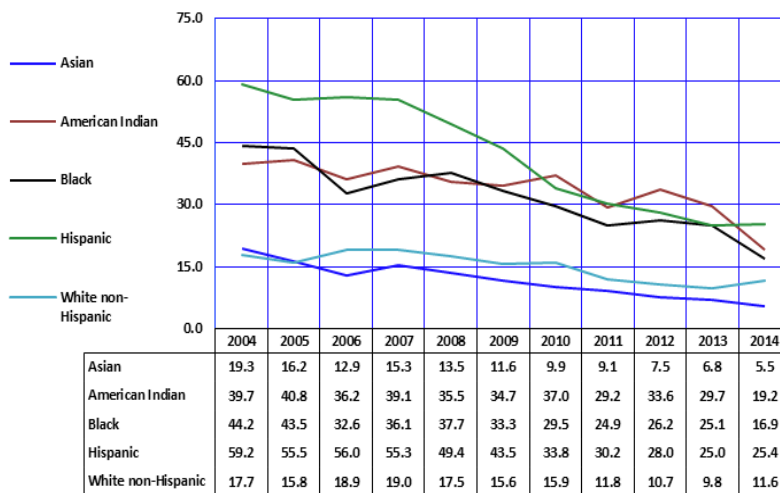
Note: <sup>a</sup> All rates per 1,000 females in specified age group.

Teen pregnancy rates differ by race/ethnicity.

Between 2004 and 2014, 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 71.5 percent drop from 2004 to 2014. The Hispanic teenage pregnancy rate decreased 57.1 percent from 59.2 in 2004 to 25.4 in 2014, representing a much larger decline in the absolute number of pregnant teenage Hispanics compared to Asians.

The changes in annual teen pregnancy rates from 2004 to 2014 are shown in detail below.

**Figure 1A-6**  
**Pregnancy Rates<sup>a</sup> by Race/Ethnicity and Year among Females**  
**19 or Younger, Arizona, 2004 - 2014**



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

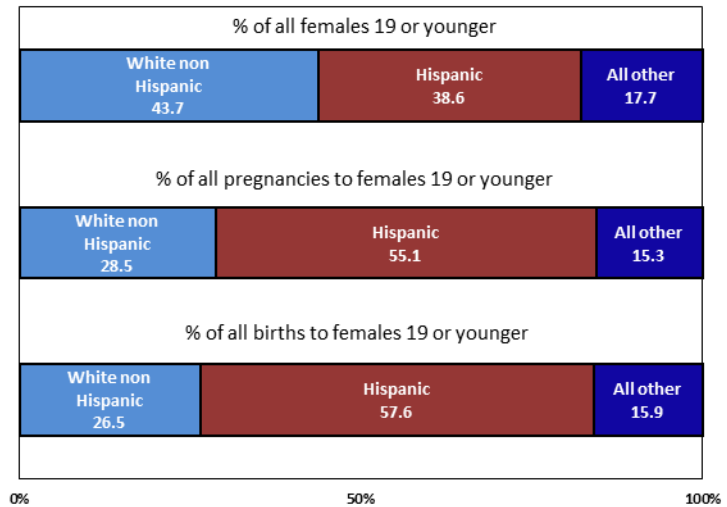
The teen pregnancy rates for all racial/ethnic groups were lower in 2014 than in 2004 (**Figure 1A-6**). Compared to 2013, the teen pregnancy rate decreased for all racial/ethnic groups, except for Hispanics and Whites.

From 2013 to 2014, teenage pregnancy rates decreased 35.3 percent for American Indian females, 32.7 percent for black females and 19 percent for Asian or Pacific Islander females, while the rate increased among Hispanic or Latino females and more so among White non-Hispanic females.

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

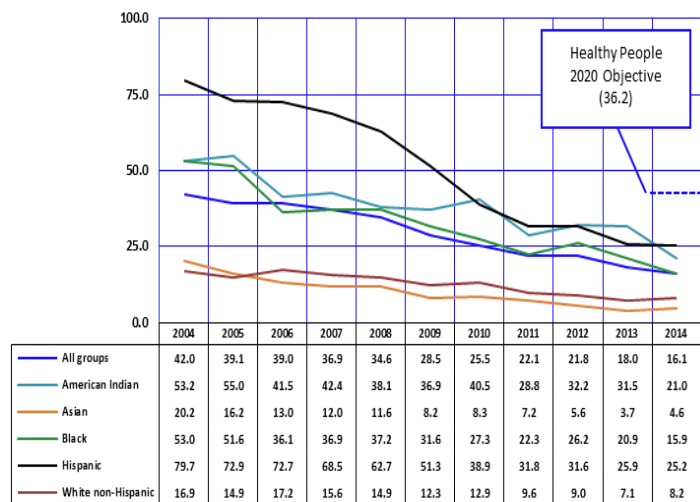
**Figure 1A-7**  
**Proportional Contribution by Race/Ethnicity to Pregnancies and Live Births among Females 19 or Younger, Arizona, 2014**

In 2014, Hispanic females accounted for approximately 38.6 percent of all females 10-19 years old in Arizona. As in the past, they accounted for a large percentage of teen pregnancies (55.1 percent) and live births (57.6 percent; **Figure 1A-7**). In contrast, White non-Hispanic females made up a larger proportion of all females 10-19 years old in Arizona, but had a lower proportional contribution to teen pregnancies (28.5 percent) and live births (26.5 percent). Note: percentages are based on the number of pregnancies and births in **Table 1A-5**.



In 2014, the pregnancy rate of 16.1 pregnancies per 1,000 adolescent females 15-17 years old in Arizona was 55.5 percent lower than the **Healthy People 2020** objective of 36.2/1,000 (**Figure 1A-8, Table 1A-3**). For all racial/ethnic groups in Arizona, the pregnancy rates for females age 15-17 years were below the Healthy People 2020 objective. The 2014 pregnancy rate among Asians age 15-17 was 7.9 times lower than the objective and among White non-Hispanics 4.4 times lower than the objective. While lower than the 2020 objective, the pregnancy rates of American Indians, Hispanics, and Blacks were substantially higher than their White non-Hispanic and Asian counterparts.

**Figure 1A-8**  
**Pregnancy Rates by Race/Ethnicity and Year among Females 15-17 Years: 2004 - 2014 and the "Healthy Arizona 2020" Objective**



Note: \* 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, 2004-2014**

Race/ethnicity Pregnancy outcome	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2014 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	45,236	44,296	48,329	47,633	46,860	44,737	44,174	40,868	40,769	40,982	45,864	<b>70.9</b>
Births	39,271	39,657	43,013	42,216	41,925	39,781	38,777	38,294	38,670	38,220	40,097	<b>62.0</b>
Abortions	5,726	4,431	5,106	5,202	4,737	4,759	5,241	2,385	1,904	2,515	5,562	<b>8.6</b>
Fetal deaths	239	208	210	215	198	197	156	189	195	247	205	<b>0.3</b>
<b>HISPANIC OR LATINO, total:</b>	45,534	45,500	48,266	49,717	45,997	41,869	37,953	36,853	36,720	37,469	38,396	<b>90.2</b>
Births	40,822	42,156	44,862	45,731	42,639	38,362	34,333	32,398	33,146	33,075	33,715	<b>79.2</b>
Abortions	4,485	3,112	3,160	3,719	3,124	3,303	3,422	4,274	3,393	4,189	4,499	<b>10.6</b>
Fetal deaths	227	232	244	267	234	204	198	181	181	205	182	<b>0.4</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	3,972	4,068	4,484	4,884	5,089	5,166	4,843	4,538	4,867	4,955	5,551	<b>72.5</b>
Births	3,216	3,450	3,864	4,165	4,301	4,378	4,328	4,366	4,715	4,726	4,522	<b>59.0</b>
Abortions	723	585	581	675	744	736	476	145	116	189	981	<b>12.8</b>
Fetal deaths	33	33	39	44	44	52	39	27	36	40	48	<b>0.6</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	6,497	6,691	6,744	6,757	6,706	6,516	6,063	5,921	5,650	5,577	5,483	<b>63.6</b>
Births	6,120	6,293	6,364	6,408	6,362	6,170	5,815	5,830	5,569	5,476	5,145	<b>59.7</b>
Abortions	341	353	342	310	297	300	218	48	38	61	291	<b>3.4</b>
Fetal deaths	36	45	38	39	47	46	30	43	43	40	47	<b>0.5</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	3,075	3,195	3,537	3,883	3,856	3,797	3,564	3,579	3,715	3,589	3,720	<b>59.0</b>
Births	2,614	2,805	3,136	3,412	3,425	3,396	3,293	3,505	3,625	3,466	3,169	<b>50.3</b>
Abortions	444	379	391	454	412	390	254	47	75	110	534	<b>8.5</b>
Fetal deaths	17	11	10	17	19	11	17	27	15	13	17	<b>0.3</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>c</sup>, total:</b>	106,252	106,776	113,091	113,756	110,155	103,172	98,548	99,266	99,324	98,762	99,914	<b>77.0</b>
Births	93,396	95,798	102,042	102,687	99,215	92,616	87,053	85,190	85,725	84,963	86,648	<b>66.7</b>
Abortions	12,301	10,446	10,506	10,486	10,396	10,045	11,059	13,606	13,129	13,254	12,747	<b>9.8</b>
Fetal deaths	505 <sup>e</sup>	532	543	583	544	511	443	470	470	545	519	<b>0.4</b>
<b>Pregnancy rate, total:</b>	<b>86.1</b>	<b>83.2</b>	<b>88.7</b>	<b>87.5</b>	<b>83.0</b>	<b>76.7</b>	<b>78.1</b>	<b>78.0</b>	<b>77.9</b>	<b>76.8</b>	<b>77.0</b>	
<b>Fertility rate<sup>d</sup></b>	<b>75.7</b>	<b>74.7</b>	<b>80.0</b>	<b>78.9</b>	<b>74.8</b>	<b>68.9</b>	<b>68.9</b>	<b>67.0</b>	<b>67.2</b>	<b>66.0</b>	<b>66.7</b>	
<b>Abortion rate</b>	<b>10.0</b>	<b>8.1</b>	<b>8.2</b>	<b>8.1</b>	<b>7.8</b>	<b>7.5</b>	<b>8.8</b>	<b>10.7</b>	<b>10.3</b>	<b>10.3</b>	<b>9.8</b>	

Notes: <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> Includes other and unspecified ethnicity; <sup>d</sup> Number of births per 1,000 females of childbearing age; <sup>e</sup> The total number of fetal deaths for 2004 was revised from 555 to 505; for the revised 2004 counts of fetal deaths by race/ethnicity see Table 1C-4.



**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, 2004-2014**

Race/ethnicity Pregnancy outcome	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2014 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	1,129	1,028	1,204	1,165	1,074	894	770	600	564	448	496	<b>3.2</b>
Births	764	728	871	805	784	669	553	507	483	373	352	<b>2.3</b>
Abortions	360	293	324	353	287	218	214	90	71	72	140	<b>0.9</b>
<b>HISPANIC OR LATINO, total:</b>	3,198	3,043	3,281	3,286	3,057	2,496	2,106	1,731	1,728	1,443	1,292	<b>9.3</b>
Births	2,916	2,858	3,046	3,007	2,835	2,340	1,927	1,528	1,574	1,291	1,138	<b>8.2</b>
Abortions	267	172	217	254	207	144	167	196	150	142	141	<b>1.0</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	241	247	255	268	266	221	189	170†	174	140	145	<b>6.2</b>
Births	192	207	194	207	215	187	161	162	164	128	107	<b>4.6</b>
Abortions	47	37	57	55	48	31	25	*	9	9	36	<b>1.5</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	495	530	477	504	452	436	361	310†	260†	260†	217	<b>8.2</b>
Births	473	499	449	471	430	411	345	307	258	251	205	<b>7.8</b>
Abortions	18	25	25	30	19	22	15	*	*	*	7	<b>0.3</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	46	39	43	43	41	30	30†	30†	20†	20†	25	<b>1.8</b>
Births	26	29	29	31	27	20	24	28	18	13	14	<b>1.0</b>
Abortions	20	10	14	12	14	9	*	*	*	*	11	<b>0.8</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	5,188	5,029	5,347	5,300	4,970	4,101	3,513	3,089	2,976	2,476	2,193	<b>6.1</b>
Births	4,415	4,364	4,620	4,541	4,312	3,633	3,015	2,548	2,497	2,056	1,816	<b>5.1</b>
Abortions	747	636	693	718	634	442	479	527	463	402	352	<b>1.0</b>
<b>Pregnancy rate, total:</b>	<b>15.9</b>	<b>14.8</b>	<b>15.1</b>	<b>14.8</b>	<b>13.7</b>	<b>11.2</b>	<b>10.0</b>	<b>8.7</b>	<b>8.4</b>	<b>6.9</b>	<b>6.1</b>	
<b>Fertility rate<sup>e</sup></b>	<b>13.5</b>	<b>12.9</b>	<b>13.0</b>	<b>12.7</b>	<b>11.9</b>	<b>9.9</b>	<b>8.6</b>	<b>7.2</b>	<b>7.1</b>	<b>5.8</b>	<b>5.1</b>	
<b>Abortion rate</b>	<b>2.3</b>	<b>1.9</b>	<b>2.0</b>	<b>2.0</b>	<b>1.7</b>	<b>1.2</b>	<b>1.4</b>	<b>1.5</b>	<b>1.3</b>	<b>1.1</b>	<b>1.0</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> 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, 2004-2014**

Race/ethnicity Pregnancy outcome	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2014 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	1,093	996	1,157	1,067	1,038	863	742	577	549	434	481	<b>8.2</b>
Births	747	711	852	779	769	649	541	494	475	365	344	<b>5.9</b>
Abortions	341	278	296	282	266	207	198	80	65	66	133	<b>2.3</b>
<b>HISPANIC OR LATINO, total:</b>	3,040	2,885	3,131	3,126	2,911	2,401	2,021	1,653	1,670	1,390	1,262	<b>25.2</b>
Births	2,779	2,721	2,923	2,892	2,724	2,253	1,859	1,467	1,528	1,244	1,115	<b>22.3</b>
Abortions	247	151	193	210	173	136	151	179	138	136	134	<b>2.7</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	228	234	239	242	248	212	178	160†	166	133	138	<b>15.9</b>
Births	180	199	187	195	203	181	151	152	159	122	102	<b>11.7</b>
Abortions	46	32	48	42	43	28	24	*	6	8	34	<b>3.9</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	473	505	457	470	428	419	345	300†	250†	250†	210†	<b>21.0</b>
Births	452	478	430	445	408	394	331	293	251	243	196	<b>19.9</b>
Abortions	17	21	24	22	17	22	13	*	*	*	*	<b>**</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	44	38	39	39	38	30†	30†	26	20†	10†	23	<b>4.6</b>
Births	25	28	28	31	26	18	23	26	17	11	13	<b>2.6</b>
Abortions	19	10	11	8	12	*	*	0	*	*	10	<b>2.0</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	4,955	4,790	5,105	4,975	4,740	3,945	3,363	2,939	2,860	2,385	2,125	<b>16.1</b>
Births	4,227	4,179	4,450	4,361	4,151	3,501	2,910	2,447	2,430	1,985	1,770	<b>13.4</b>
Abortions	703	582	624	576	567	418	435	478	414	382	330	<b>2.5</b>
<b>Pregnancy rate, total:</b>	<b>42.0</b>	<b>39.1</b>	<b>39.0</b>	<b>36.9</b>	<b>34.6</b>	<b>28.5</b>	<b>25.5</b>	<b>22.1</b>	<b>21.8</b>	<b>18.0</b>	<b>16.1</b>	
<b>Fertility rate<sup>e</sup></b>	<b>35.8</b>	<b>34.1</b>	<b>34.0</b>	<b>32.3</b>	<b>30.3</b>	<b>25.3</b>	<b>22.1</b>	<b>18.4</b>	<b>18.5</b>	<b>15.0</b>	<b>13.4</b>	
<b>Abortion rate</b>	<b>6.0</b>	<b>4.8</b>	<b>4.8</b>	<b>4.3</b>	<b>4.1</b>	<b>3.0</b>	<b>3.3</b>	<b>3.6</b>	<b>3.1</b>	<b>2.9</b>	<b>2.5</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, 2004-2014**

Race/ethnicity Pregnancy outcome	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2014 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	2,795	2,603	2,944	2,936	2,778	2,560	2,316	1,792	1,675	1,602	1,759	<b>45.5</b>
Births	2,042	2,016	2,338	2,295	2,209	2,046	1,833	1,582	1,494	1,408	1,405	<b>36.4</b>
Abortions	735	574	593	629	554	502	480	199	167	185	348	<b>9.0</b>
<b>HISPANIC OR LATINO, total:</b>	4,767	4,705	5,115	5,259	4,707	4,400	3,812	3,566	3,357	3,175	3,078	<b>91.7</b>
Births	4,222	4,330	4,692	4,775	4,333	4,001	3,421	3,103	3,053	2,789	2,675	<b>79.7</b>
Abortions	517	350	392	456	354	381	365	442	291	367	390	<b>11.6</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	430	441	476	498	546	501	446	413	390†	397	345	<b>59.4</b>
Births	348	362	407	414	441	416	401	399	380	379	287	<b>49.4</b>
Abortions	78	77	67	81	95	79	42	13	*	14	54	<b>9.3</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	720	759	800	849	794	793	664	690†	640†	530†	417	<b>62.7</b>
Births	669	705	767	814	755	759	643	680	632	524	397	<b>59.7</b>
Abortions	47	51	30	33	35	30	21	*	*	*	18	<b>2.7</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	102	93	89	124	108	99	88	90†	68	70†	67	<b>20.3</b>
Births	66	67	63	72	86	68	79	83	61	66	43	<b>13.0</b>
Abortions	36	25	26	51	22	31	9	*	7	*	24	<b>7.3</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	8,975	8,869	9,571	9,738	9,077	8,436	7,467	7,180	6,734	6,239	5,731	<b>65.2</b>
Births	7,448	7,569	8,296	8,431	7,849	7,319	6,401	5,887	5,620	5,166	4,807	<b>54.7</b>
Abortions	1,473	1,256	1,226	1,261	1,179	1,077	1,033	1,258	1,077	1,039	897	<b>10.2</b>
<b>Pregnancy rate, total:</b>	<b>108.7</b>	<b>103.6</b>	<b>115.6</b>	<b>121.4</b>	<b>111.3</b>	<b>102.5</b>	<b>80.8</b>	<b>77.2</b>	<b>70.2</b>	<b>64.8</b>	<b>65.2</b>	
<b>Fertility rate<sup>e</sup></b>	<b>90.2</b>	<b>88.4</b>	<b>100.2</b>	<b>105.1</b>	<b>96.3</b>	<b>89.0</b>	<b>69.2</b>	<b>63.3</b>	<b>58.6</b>	<b>53.6</b>	<b>54.7</b>	
<b>Abortion rate</b>	<b>17.8</b>	<b>14.7</b>	<b>14.8</b>	<b>15.7</b>	<b>14.5</b>	<b>13.1</b>	<b>11.2</b>	<b>13.5</b>	<b>11.2</b>	<b>10.8</b>	<b>10.2</b>	

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> 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, 2004-2014**

Race/ethnicity Pregnancy outcome	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2014 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	3,924	3,631	4,148	4,101	3,852	3,454	3,086	2,392	2,239	2,050	2,255	<b>11.6</b>
Births	2,806	2,744	3,209	3,100	2,993	2,715	2,386	2,089	1,977	1,781	1,757	<b>9.0</b>
Abortions	1,095	867	917	982	841	720	694	289	238	257	488	<b>2.5</b>
<b>HISPANIC OR LATINO, total:</b>	7,965	7,748	8,396	8,545	7,764	6,896	5,918	5,297	5,085	4,618	4,370	<b>25.4</b>
Births	7,138	7,188	7,738	7,782	7,168	6,341	5,348	4,631	4,627	4,080	3,813	<b>22.2</b>
Abortions	784	522	609	710	561	525	532	638	441	509	531	<b>3.1</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	671	688	731	766	812	722	635	580	562	537	490	<b>16.9</b>
Births	540	569	601	621	656	603	562	561	544	507	394	<b>13.6</b>
Abortions	125	114	124	136	143	110	67	17	14	23	90	<b>3.1</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	1,215	1,289	1,277	1,353	1,246	1,229	1,025	1,000 <sup>†</sup>	900 <sup>†</sup>	787	634	<b>19.2</b>
Births	1,142	1,204	1,216	1,285	1,185	1,170	988	987	890	775	602	<b>18.3</b>
Abortions	65	76	55	63	54	52	36	*	*	8	25	<b>0.8</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	148	132	132	167	149	129	117	120 <sup>†</sup>	88	80 <sup>†</sup>	92	<b>5.5</b>
Births	92	96	92	103	113	88	103	111	79	79	57	<b>3.4</b>
Abortions	56	35	40	63	36	40	14	*	9	*	35	<b>2.1</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	14,163	13,898	14,918	15,038	14,047	12,537	10,980	10,269	9,710	8,715	7,924	<b>17.8</b>
Births	11,863	11,933	12,916	12,972	12,161	10,952	9,416	8,435	8,117	7,222	6,623	<b>14.9</b>
Abortions	2,220	1,892	1,919	1,979	1,813	1,519	1,512	1,785	1,539	1,441	1,249	<b>2.8</b>
<b>Pregnancy rate, total:</b>	<b>34.6</b>	<b>32.7</b>	<b>34.1</b>	<b>34.4</b>	<b>31.6</b>	<b>28.0</b>	<b>24.7</b>	<b>23.0</b>	<b>21.6</b>	<b>19.2</b>	<b>17.8</b>	
<b>Fertility rate<sup>e</sup></b>	<b>29.0</b>	<b>28.1</b>	<b>29.6</b>	<b>29.7</b>	<b>27.4</b>	<b>24.4</b>	<b>21.2</b>	<b>18.9</b>	<b>18.0</b>	<b>15.9</b>	<b>14.9</b>	
<b>Abortion rate</b>	<b>5.4</b>	<b>4.5</b>	<b>4.4</b>	<b>4.5</b>	<b>4.1</b>	<b>3.4</b>	<b>3.4</b>	<b>4.0</b>	<b>3.4</b>	<b>3.2</b>	<b>2.8</b>	

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

**TABLE 1A-6  
NUMBER OF PREGNANCIES<sup>a</sup> BY PREGNANCY OUTCOME, AGE GROUP, AND RACE/ETHNICITY, ARIZONA, 2014  
PREGNANCIES BY OUTCOME:**

	All ages	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un- known
<b>All groups</b>											
Total pregnancies	99,914	68	2,125	5,731	25,625	28,527	23,490	11,465	2,660	216	10†
Births	86,648	46	1,770	4,807	21,329	25,052	21,235	10,103	2,125	176	*
Abortions <sup>b</sup>	12,747	22	330	897	4,176	3,344	2,138	1,295	505	40	0
Fetal deaths	519	0	25	27	120	131	117	67	30	0	*
<b>White non Hispanic</b>											
Total pregnancies	45,864	15	480†	1,759	9,851	13,728	12,671	5,928	1,265	162	0†
Births	40,097	8	344	1,405	8,034	12,239	11,652	5,262	1,019	131	*
Abortions <sup>b</sup>	5,562	7	133	348	1,783	1,438	961	625	236	31	0
Fetal deaths	210†	0	*	6	34	51	58	41	10	0	*
<b>Hispanic or Latino</b>											
Total pregnancies	38,396	30	1,262	3,078	11,585	10,374	7,323	3,763	944	40†	0†
Births	33,715	23	1,115	2,675	10,004	9,151	6,572	3,370	773	31	*
Abortions <sup>b</sup>	4,500†	7	134	390	1,532	1,174	717	380	160	*	0
Fetal deaths	182	0	13	13	49	49	34	13	11	0	0
<b>Black or African American</b>											
Total pregnancies	5,551	10†	140†	350†	1,655	1,596	1,150	510†	140†	10†	0†
Births	4,520†	*	102	287	1,290	1,296	993	435	104	9	*
Abortions <sup>b</sup>	980†	*	34	54	350	292	148	71	28	*	0
Fetal deaths	50†	0	*	*	15	8	9	*	*	0	0
<b>American Indian or Alaska Native</b>											
Total pregnancies	5,480†	10†	210†	420†	1,809	1,570	916	460†	100†	0†	0
Births	5,150†	9	196	397	1,693	1,475	865	418	89	*	0
Abortions <sup>b</sup>	290†	*	*	18	98	83	45	34	6	0	0
Fetal deaths	50†	0	*	*	18	12	6	*	*	0	0
<b>Asian or Pacific Islander</b>											
Total pregnancies	3,720†	0†	23	67	440†	1,020†	1,268	720†	180†	0†	0
Births	3,170†	*	13	43	308	891	1,153	618	140	*	0
Abortions <sup>b</sup>	530†	*	10	24	126	126	108	96	41	*	0
Fetal deaths	20†	0	0	0	*	*	7	*	*	0	0

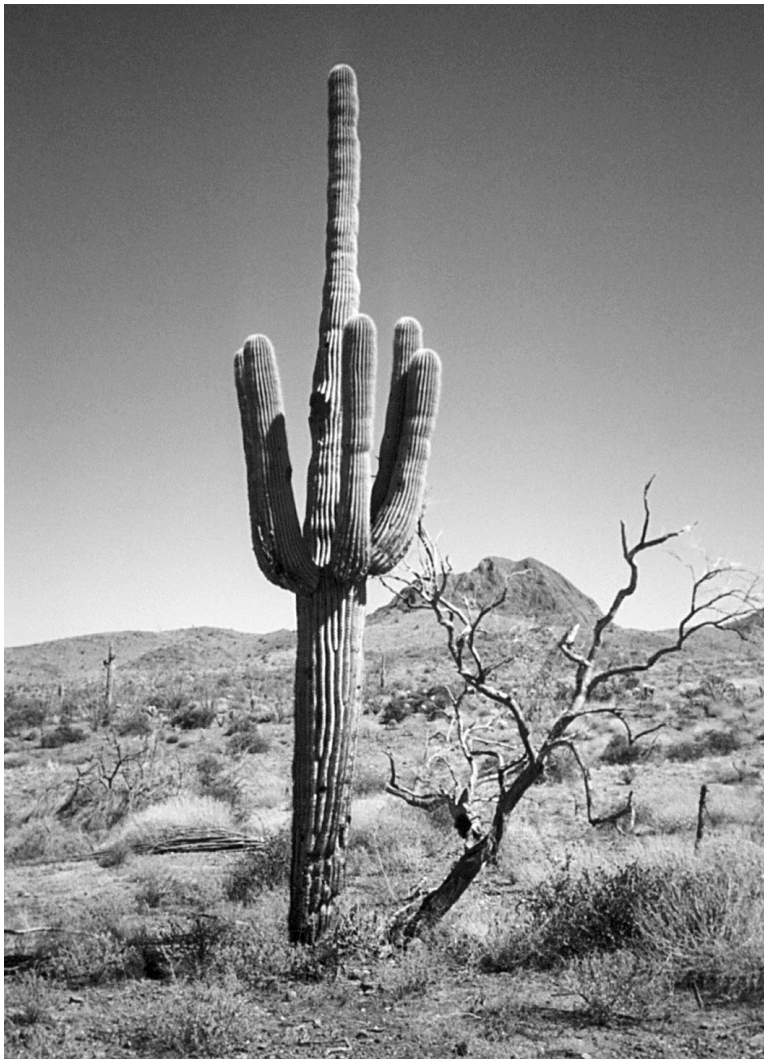
Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> The sum of recorded live births, spontaneous fetal losses and abortions; <sup>b</sup> Abortions include unknown or multiple race.

**TABLE 1A-7  
PREGNANCY RATES<sup>a</sup> AND NUMBER OF LIVE BIRTHS, FETAL DEATHS, AND  
ABORTIONS TO TEENS BY INDIVIDUAL AGE, ARIZONA, 2014**

Age	Population	PREGNANCIES BY OUTCOME			TOTAL PREGNANCIES	
		Live births	Abortions	Spontaneous fetal losses	Number	Rate
<b>10</b>	44,767	0	0	0	0	<b>0.0</b>
<b>11</b>	44,337	0	*	0	*	<b>**</b>
<b>12</b>	45,362	0	0	0	0	<b>0.0</b>
<b>13</b>	45,889	6	*	0	11	<b>0.2</b>
<b>14</b>	44,725	40	15	0	55	<b>1.2</b>
<b>10-14</b>	225,080	46	22	0	68	<b>0.3</b>
<b>15</b>	44,036	184	60	*	246	<b>5.6</b>
<b>16</b>	44,155	531	111	8	650	<b>14.7</b>
<b>17</b>	43,985	1,055	159	15	1,229	<b>27.9</b>
<b>15-17</b>	132,176	1,770	330	25	2,125	<b>16.1</b>
<b>18</b>	44,120	1,886	408	10	2,304	<b>52.2</b>
<b>19</b>	43,838	2,921	489	17	3,427	<b>78.2</b>
<b>18-19</b>	87,958	4,807	897	27	5,731	<b>65.2</b>
<b>Total 10-19</b>	445,214	6,623	1,250 <sup>†</sup>	50 <sup>†</sup>	7,920 <sup>†</sup>	<b>17.8</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> Rates per 1,000 female population in specific group.



## 1B.

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

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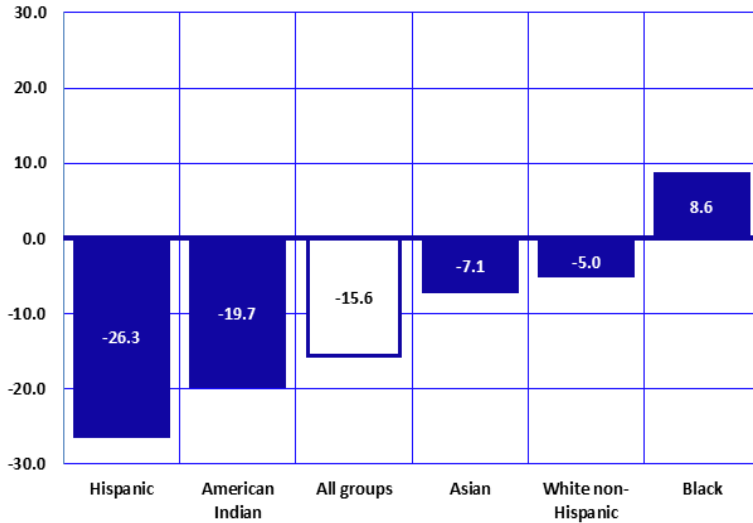
The number of resident births reached its recent peak in 2007 at 102,687 (**Table 1B-2**). In 2008, the number of resident births declined to 99,215; the first annual decline since 1991 (which, like 2008, also was an economic downturn year). Since 2008, the number of births declined until 2013, reaching a low of 84,963 resident births, the lowest number of births recorded in Arizona since 1999 (n = 80,505). In 2014, the number of resident births substantially increased to 86,648.

There were striking differences in how the number of births changed from 2007 to 2014 by mother's race/ethnicity. Compared to 2007, the number of births for all combined racial/ethnic groups was 15.6 percent lower in 2014, although the number of births rose by 8.6 percent for Black or African American mothers. Hispanic or Latino women experienced a decrease of 26.3 percent during this period (**Figure 1B-1**).

Since the 2008 edition of this report, we have been pointing out that Hispanics in Arizona, were hit hardest by the recession, and observed declines in their birth rate are the result of this. However, it is also important to note that the decline in births to Hispanic or Latino mothers started well before the recession, accelerated during the recession, and continued even as the economy was recovering. From 2007 - 2014 the estimated number of Hispanic women of childbearing age (15 - 44 years) increased from 405,306 to 425,744. Hence, the decrease in Hispanic births may only be attributed in part to the unfavorable economic conditions of this group. Changes in patterns of childbearing behaviors, as more Hispanic women are delaying motherhood, is also a factor in the observed downward trend.

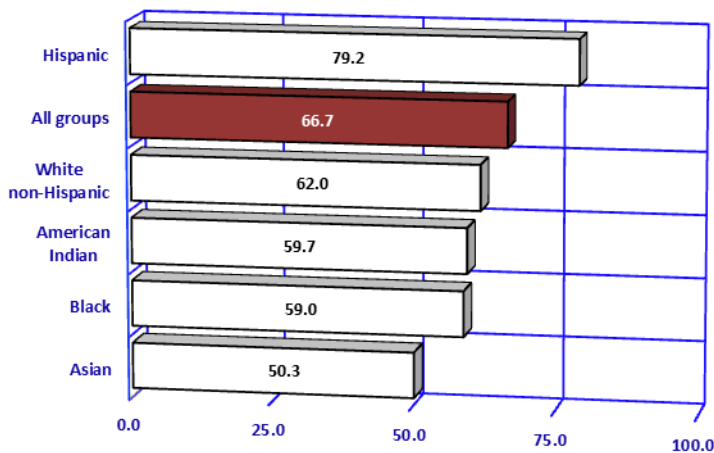
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-1**  
**Percent Change from 2007 to 2014 in the Number of Resident Live Births by**  
**Mother's Race/Ethnicity, Arizona**



From 2007 to 2014, the number of resident live births declined by 15.6 percent (**Figure 1B-1**). All racial/ethnic groups experienced a decrease in the number of live births, with exception of blacks. The magnitude of the reduction in the number of births was the largest among Hispanics or Latinos (-26.3 percent) and American Indians (-19.7 percent).

**Figure 1B-2**  
**General Fertility Rates<sup>a</sup> by Race/Ethnicity among Females of all Ages,**  
**Arizona, 2014**



From among 1,298,305 women of childbearing age (15-44 years), 6.6 percent gave birth in 2014. 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 White non-Hispanic, 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**.

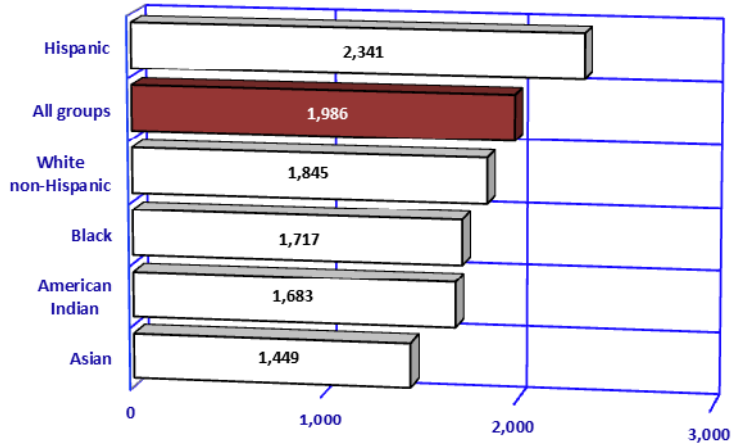
Note: <sup>a</sup> Number of births per 1,000 females 15-44 years old in specified group.



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

**Figure 1B-3**  
Total Fertility Rates<sup>a</sup> by Race/Ethnicity, Arizona, 2014

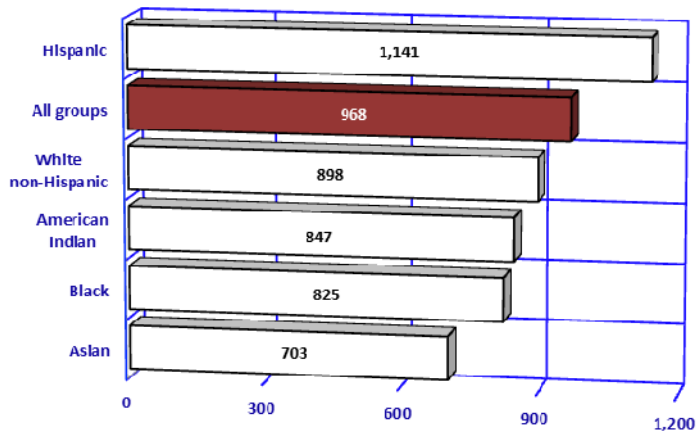
The *total fertility rate* (TFR) indicates the average number of births to a hypothetical cohort of 1,000 women, if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. From 2003 to 2008, Arizona's TFRs always exceeded the rate of "replacement" (2,110 births per 1,000 women, **Table 1B-1**). The "replacement" rate is considered the value at which a given generation can exactly replace itself. The TFR was 2,058 births per 1,000 women of childbearing age in 2009 and 2010, decreasing to 1,986 in 2014. The 2014 TFR of 2,341 for Hispanic women exceeded the generation replacement rate by 11.0 percent. The rate for Asian women (1,449) was 31.3 percent lower than the replacement rate.



Note: <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 1,986 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 2014, they would have a total of 1,986 children (or 2.0 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, 2014

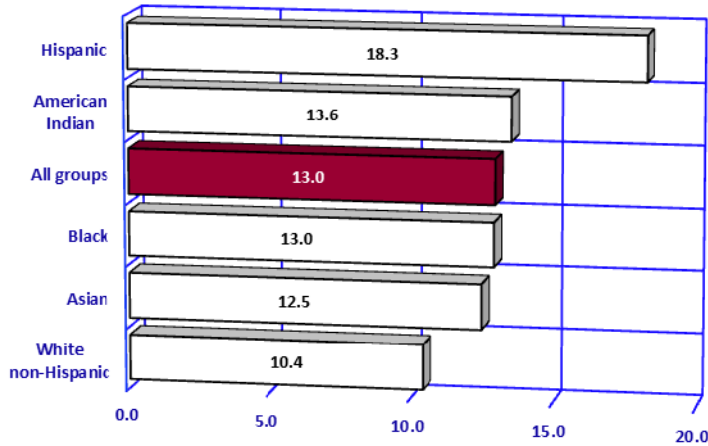
Another measure used to summarize reproduction patterns is the *gross reproduction rate* (GRR). It represents the average number of daughters born to a hypothetical cohort of 1,000 women if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. This 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 2014, the gross reproduction rates in Arizona ranged from 703 for Asian women to 1,141 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 by Race/Ethnicity, Arizona, 2014**



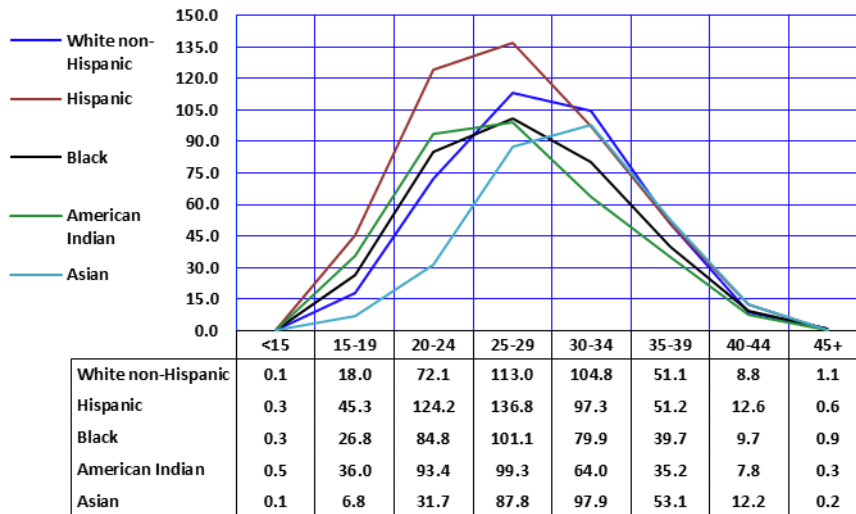
Note: <sup>a</sup> Number of births per 1,000 population in specified group.

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 increased from 12.9/1,000 in 2013 to 13.0 in 2014.

In 2014 the crude birth rates by mother's race/ethnicity ranged from 10.4 births per 1,000 White non-Hispanics to 18.3 per 1,000 Hispanics (**Figure 1B-5**).

**Figure 1B-6**  
**Birth Rates<sup>a</sup> by Mother's Age Group and Race/Ethnicity, Arizona, 2014**



Note: <sup>a</sup> Number of births per 1,000 population 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 2014, Hispanic, Black, American Indian, and white women had the highest birth rates for women in age groups up to 29 years. The birth rates for women aged 30 years or older were the highest among Asian women. In general, Hispanic, Black, and American Indian women tend to give birth at younger ages (before the age of 20) than Asian and non-Hispanic White women.

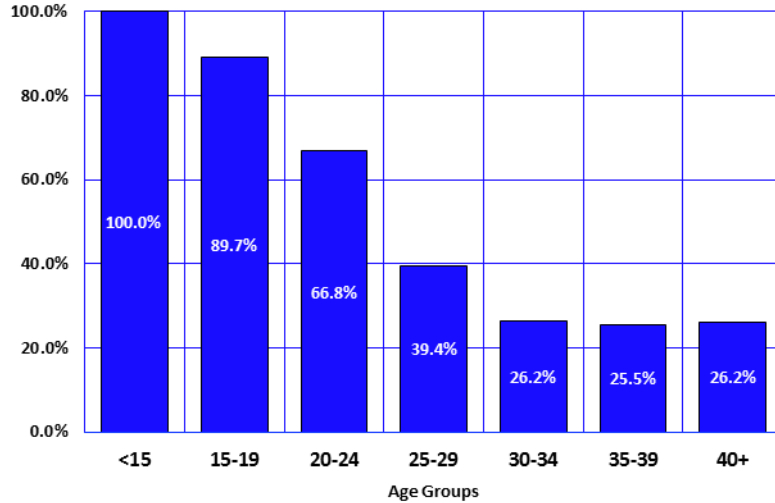
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-7**  
Percent Births to Unmarried Mothers by Age Group, Arizona, 2014

Unmarried mothers have accounted for an increasing annual proportion of births throughout the 1980s and 1990s, with 44.7 percent in 2014 (Table 1B-2). In 2014, 38,767 infants were born to unmarried mothers compared to 39,145 in 2004 (Table 1B-25)

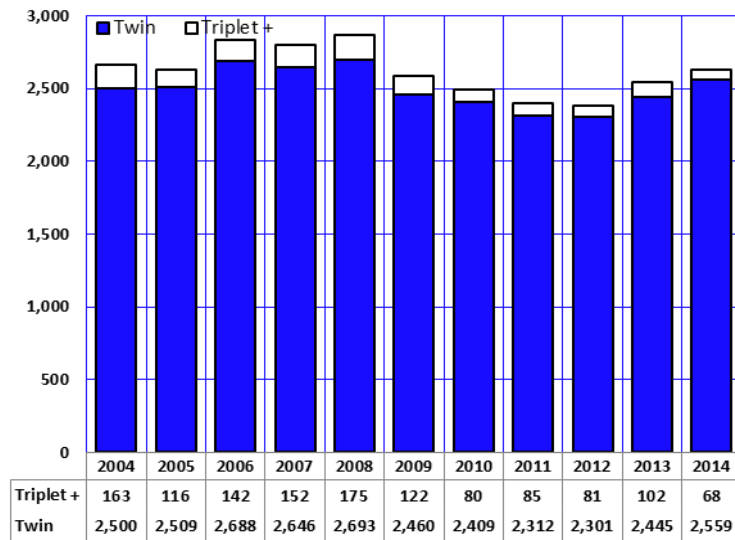
A decade ago, the proportion of births among unmarried women aged 20-24 years was 55.6 percent. This proportion has continued to rise from 2004 to 2014. In 2014, nearly 7 out of ten (66.8 percent) mothers 20-24 years old were unmarried (Figure 1B-7).

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).



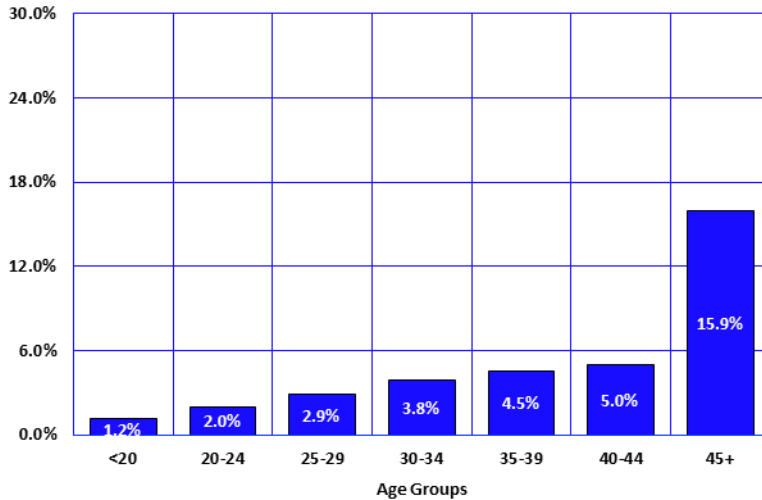
**Figure 1B-8**  
Number of Births in Twin and Triplet+ Deliveries by Year, Arizona, 2004-2014

The number of multiple birth events in Arizona declined from 2,868 in 2008, (the highest number ever recorded) to 2,627 in 2014 (Figure 1B-8). The number of babies born in twin deliveries decreased from 2,693 in 2008 to 2,559 in 2014 (Figure 1B-8). The number of triplet and higher order multiple birth events decreased by 61.1 percent from 175 in 2008 to 68 in 2014.



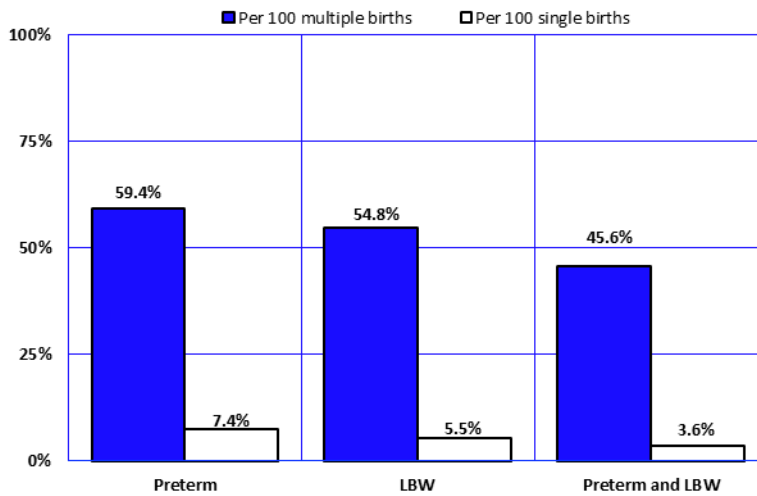
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-9**  
**Risk for Multiple Births by Mother's Age Group, Arizona, 2014**



In 2014, the proportion of multiple births gradually increased with maternal age among mothers below 45 years of age and sharply increased among mothers age 45 years and older. Among women aged 45 years and older, 15.9 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 6.2 percent in 2012 to 19.9 percent in 2013 and decreased to 15.9 percent in 2014. Continued 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, 2014**



Infants born in multiple deliveries tend to be born at shorter gestations and smaller than those born in singleton deliveries (**Figure 1B-10**). In 2014, infants born in multiple deliveries were 12.7 times more likely (45.6 vs. 3.6 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 55.6 percent of all infant deaths (only those with matching death records; (**Figure 2C-4** in section 2C on Age-Specific Mortality)). The weight of the newborn also is an important predictor of future morbidity and mortality. Infants born at low birth weight (< 1,500 grams) account for 49.9 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.

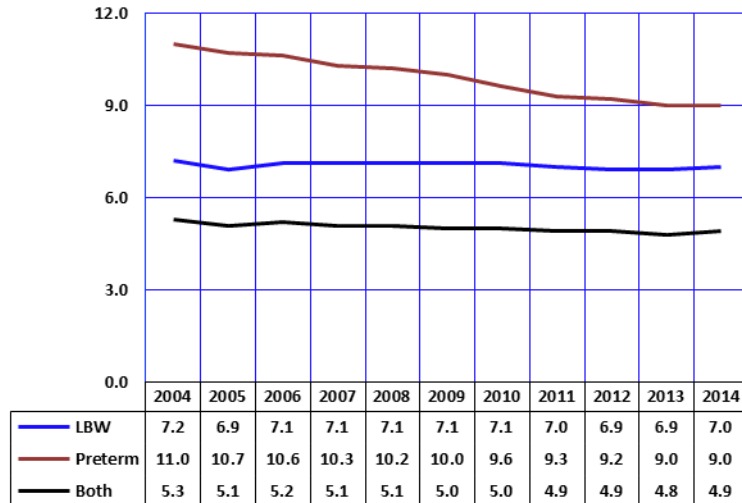
## 1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

The proportion of preterm births decreased from 9.2 percent of all births in 2012 to 9.0 percent in 2013, and remained unchanged in 2014.

The proportion of infants born earlier than expected who were also low birth weight (LBW; at less than 2,500 grams) was 4.9/100 births in 2014 (**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**.

**Figure 1B-11**  
Preterm<sup>a</sup> and Low Birthweight (LBW)<sup>b</sup> Births by Year, Arizona, 2004-2014

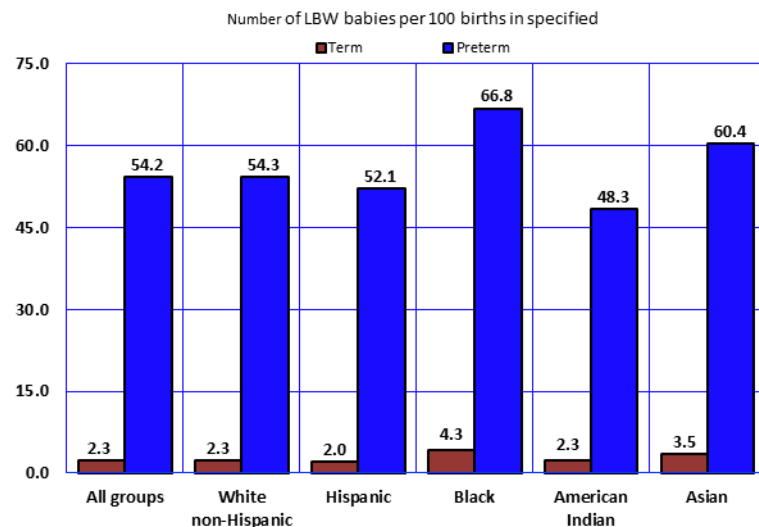


Notes: <sup>a</sup> Preterm: < 37 weeks of gestation; <sup>b</sup> Low birthweight (less than 2,500 grams or 5 pounds 8 ounces); In this report, the primary measure used to determine the gestational age is the clinical estimate of gestation as reported on the birth certificate.

From 2004 to 2014, between 7.2 and 7.0 percent of all babies were born at low birthweight (LBW), or at less than 2,500 grams (5 pounds 8 ounces). Preterm delivery is the strongest risk factor for LBW. Infants born at less than 37 completed weeks of gestation were 23.1 times (54.2 vs. 2.3 percent) more likely to be LBW than infants born at term (**Figure 1B-12**). Seven out of ten (69.4 percent) LBW babies born in 2014 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**.

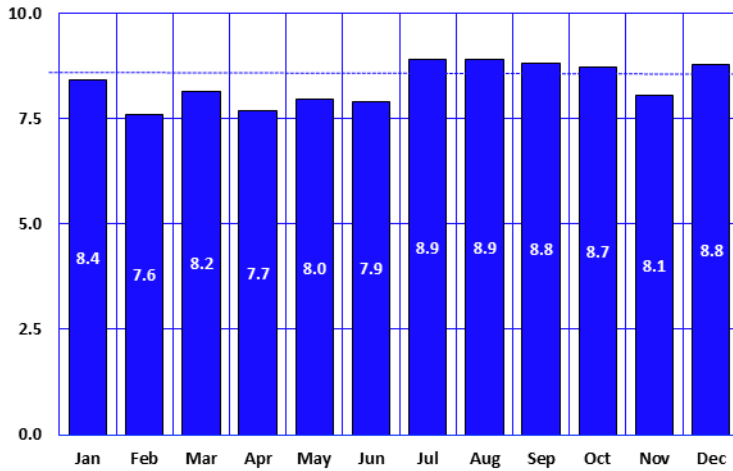
**Figure 1B-12**  
Low-Birthweight (LBW) Births by Length of Gestation and Mother's Race/Ethnicity, Arizona, 2014



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).

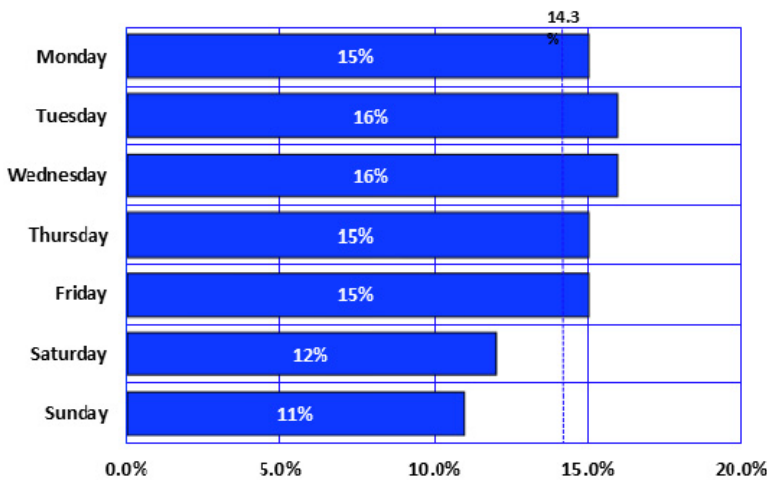
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-13**  
Percent of Resident Births by Month, Arizona, 2014



Historically, births in Arizona have peaked during August and September, with a monthly average around 8.3 percent. (**Figure 1B-13**). In 2014, the seasonal fluctuation of the frequency of births is marked by peak in July and August.

**Figure 1B-14**  
Percent of Resident Births by Day of the Week, Arizona, 2014



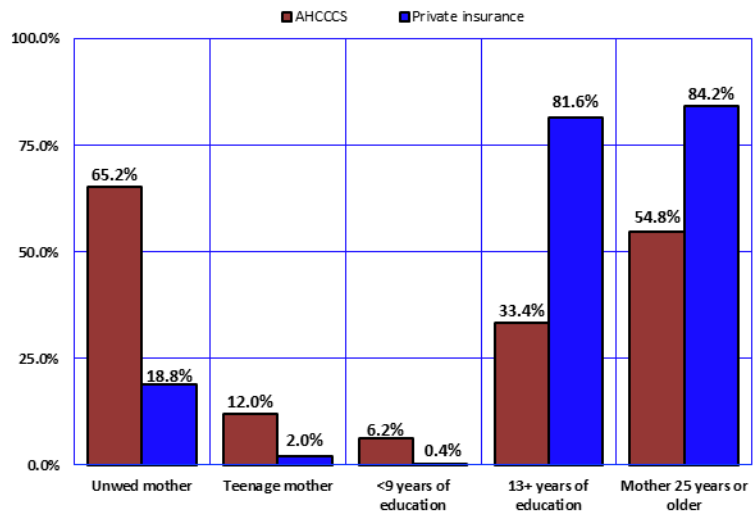
On average 237 infants were born per day in 2014 to Arizona residents. The daily average of resident live births in 2014 was substantially lower on weekends than on weekdays (**Figure 1B-14**). Many studies suggest that weekly, daily, and hourly variations observed in hospitals and clinics are not due 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 2014, only 7.7 percent of cesarean deliveries occurred on Sundays, compared to 16.6 percent on Mondays. The average rate of induction of labor was substantially lower on weekend days (10.9 percent) than it was on week days (15.7 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 2.4 times more likely to have some college education than were AHCCCS mothers (81.6 and 33.4 percent respectively, **Figure 1B-15**). Around 6 percent of AHCCCS mothers had 0-8 years of education, 15.3 times the proportion of PHI mothers. Only 18.8 percent of mothers with PHI were unmarried compared to 65.2 percent of AHCCCS mothers. Eight out of ten mothers with PHI were at least 25 years old compared to 5 out of 10 AHCCCS mothers.

**Figure 1B-15**  
Comparison of Selected Sociodemographic Characteristics by the Payer for Delivery, Arizona, 2014

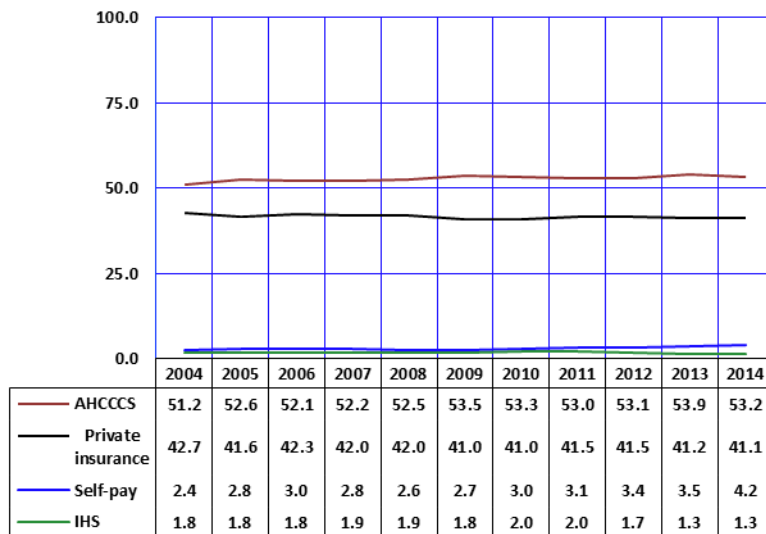


Notes: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.

Since 2002, the share of resident births paid for by AHCCCS has exceeded the share paid by private health insurance (**Figure 1B-16**). In 2004, private insurance funded 42.7 percent of births and AHCCCS paid for 51.2 percent of births. Compared to 2004, AHCCCS paid for 3.8 percent more births in 2014 and private insurance paid for 3.7 percent fewer births in 2014.

The share of AHCCCS funded births varied little from 2005 to 2014. The share of private health insurance also remained stable during this time period. In 2014, the payment source was the mothers themselves and/or their families (i.e., self-pay) in 4.2 percent of the deliveries. The Indian Health Service (IHS) paid for 1.3 percent of the births in 2014, a proportion that remained unchanged from last year (**Table 1B-27**); see also **Table 1B-25**).

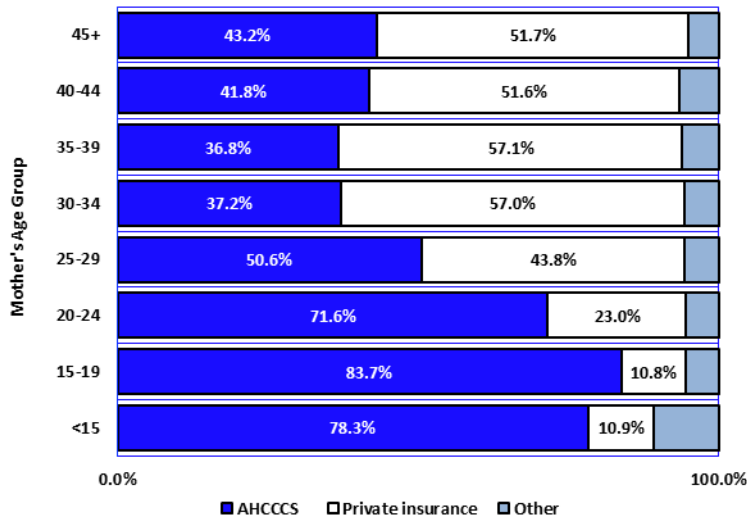
**Figure 1B-16**  
Births by Payer and Year, Arizona, 2004-2014



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**  
**Payee for Delivery by Mother's Age Group, Arizona, 2014**



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

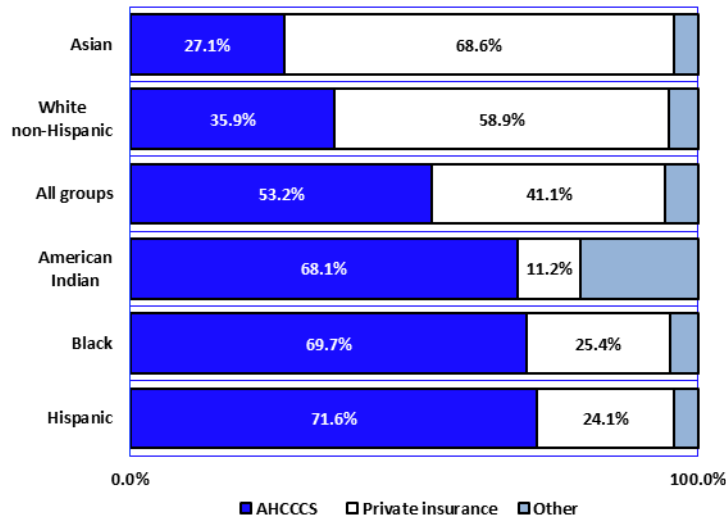
In 2014, the Arizona Health Care Cost Containment System (AHCCCS) paid for the majority of the deliveries to mothers 29 years or younger (**Figure 1B-17**). In contrast, private insurance was the largest payer for the deliveries of women giving birth who were 30 years old or older in 2014 (based on data in **Table 1B-28**).

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

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

From 1989 to 2013, the share of births paid for by AHCCCS more than doubled among mothers 20 years old or older.

**Figure 1B-18**  
**Payee for Delivery by Mother's Race/Ethnicity, Arizona, 2014**



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

In 2014, private insurance was the largest payer for deliveries of Asian (a 68.6 percent) and White non-Hispanic infants (at 58.9 percent). In contrast, the Arizona Health Care Cost Containment System was the largest payer for deliveries of Hispanic or Latino (71.6 percent), Black or African American (69.7 percent) and American Indian women ( 68.1 percent).

The Indian Health Service as a payer accounted for 18.8 percent of deliveries of American Indian or Alaska Native infants in the State (**Figure 1B-18**, based on data in **Table 1B-27**).

Hispanics or Latinos accounted for 52.4 percent of the 33,715 deliveries paid for by AHCCCS. Thirty-one percent of all AHCCCS births were to White non-Hispanic women (based on data in **Table 1B-27**).

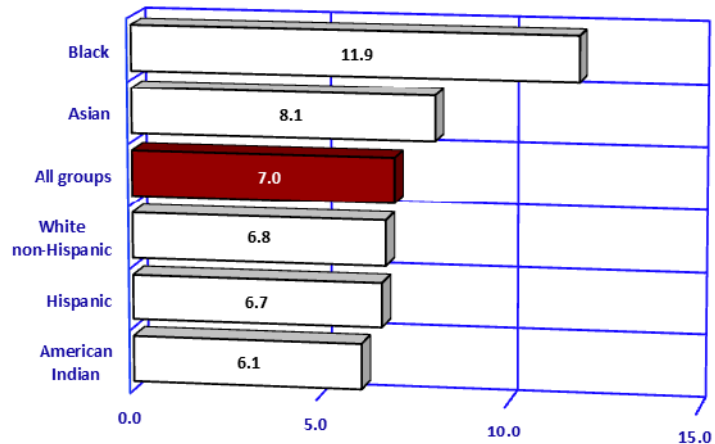


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**Figure 1B-19**  
Percent Low Birthweight<sup>a</sup> by Mother's Race/Ethnicity,  
Arizona Residents, 2014

In 2014, 7.0 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 (11.9 percent), and Asian or Pacific Islander mothers (8.1 percent). Newborns of White non-Hispanic, Hispanic or Latino, and American Indian mothers had the lowest LBW rates (6.8, 6.7, and 6.1 percent respectively; based on data in **Table 1B-25**).

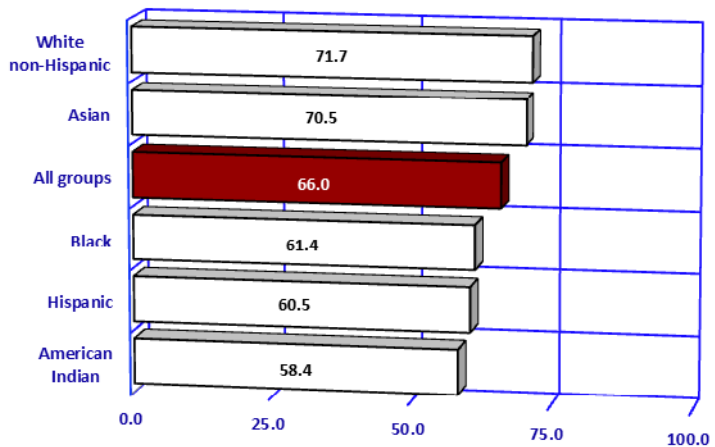


Notes: <sup>a</sup> Low birthweight is less than 2,500 grams (less than 5 pounds 8 ounces).

The percent of Arizona mothers giving birth who received early prenatal care (i.e., in the first trimester) has remained relatively stable from 2008 (79.4 percent) to 2013 (81.3 percent; **Table 1B-2**). In 2014, only 66 percent of Arizona mothers initiated prenatal care during the first trimester. It should be noted that with the adoption of the 200 revised US birth certificate in 2014, trend analysis of the timing of prenatal care is compromised by significant changes in reporting of prenatal care initiation. Hence, the low proportion of women with timely entry to prenatal care in 2014 may be attributable for the most part to differences in reporting.

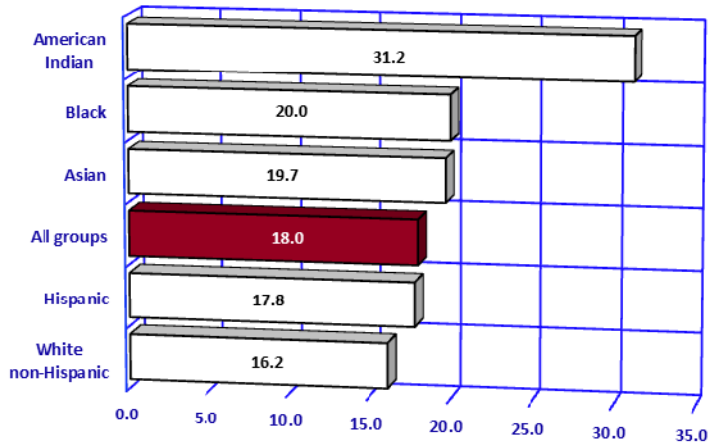
In Arizona, American Indian, Hispanic or Latino, and Black or African American mothers were least likely to begin prenatal care in the first trimester (**Figure 1B-20**). Timely entry to prenatal care was essentially reported among White non-Hispanic and Asian or Pacific Islander mothers (based on data in **Table 1B-25**).

**Figure 1B-20**  
First Trimester Prenatal Care by Mother's Race/Ethnicity,  
Arizona Residents, 2014



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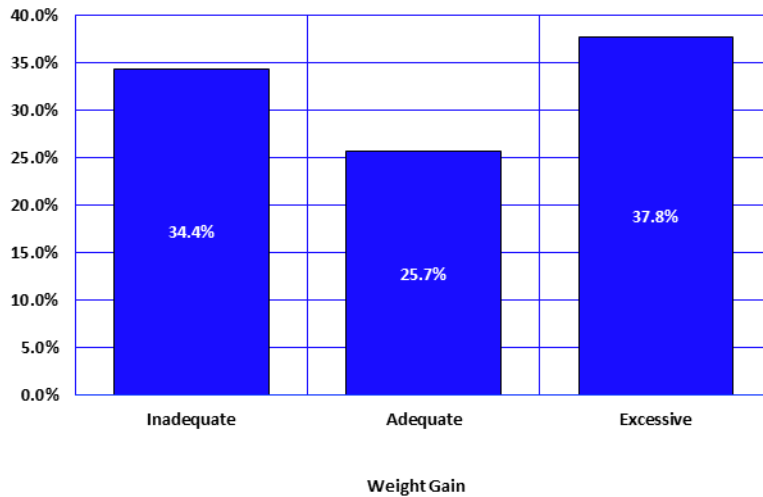
**Figure 1B-21**  
**Maternal Medical Risk Factors<sup>a</sup> by Mother's Race/Ethnicity, Arizona, 2014**



Notes: <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 2014, American Indian or Alaskan Native, Black or African American, and Asian women giving birth had the highest proportion of medical risk factors (31.2, 20.0, and 19.7 percent respectively; **Figure 1B-21**).

**Figure 1B-22**  
**Low-Birthweight by Maternal Weight Gain during Pregnancy, Arizona, 2014**

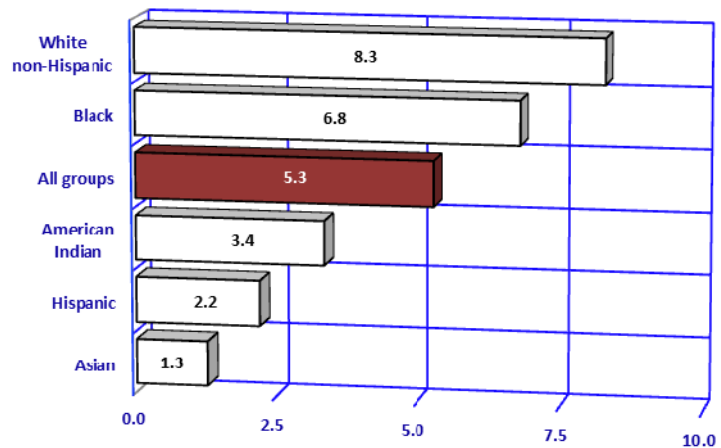


Maternal weight gain during pregnancy is a determinant of both fetal growth and birthweight. Insufficient or excessive weight gain during pregnancy can negatively influence outcomes of both mother and infant. Based on the Institute of Medicine guidelines, women who are of normal weight (body mass index 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 2014, 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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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 5.3 percent of women giving birth in 2014 (Table 1B-25, Table 5B-30), compared to 10.5 percent in 1989, when this information was first reported on Arizona birth certificates. It is unclear whether this decline means that women giving birth in Arizona are less likely to use tobacco during pregnancy or, perhaps, less likely to report it if they use. White non-Hispanic and Black mothers continued to be more likely to report smoking than American Indian, Hispanic, and Asian mothers (Figure 1B-23).

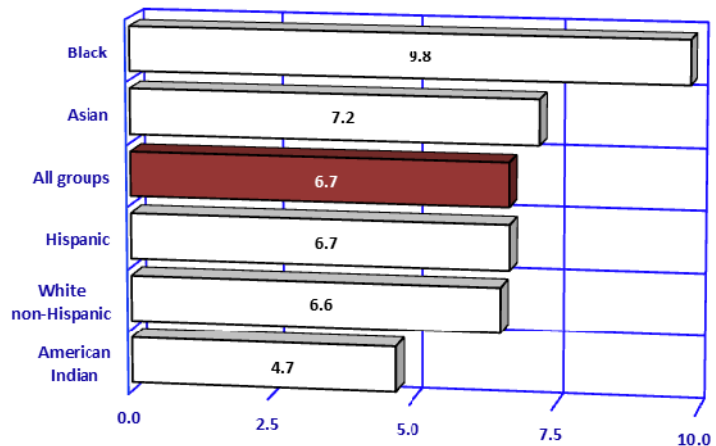
**Figure 1B-23**  
Self-reported Tobacco Use during Pregnancy<sup>a</sup> by Race/Ethnicity, Arizona, 2014



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

In 2014, 5,810, or 6.7 percent of newborns were admitted to newborn intensive care units (NICUs). Around 44.0 percent of the NICU admissions were low birthweight (LBW) babies. Prematurity, i.e., gestational age before 37 weeks captured more NICU admissions than did LBW, with 52.5 percent of NICU admissions being premature (based on data in Table 1B-32). The proportion of NICU admissions differed among racial/ethnic groups. In 2014 the rate of NICU admissions for Black or African American births was the highest among racial/ethnic groups (9.8 percent; Table 1B-25).

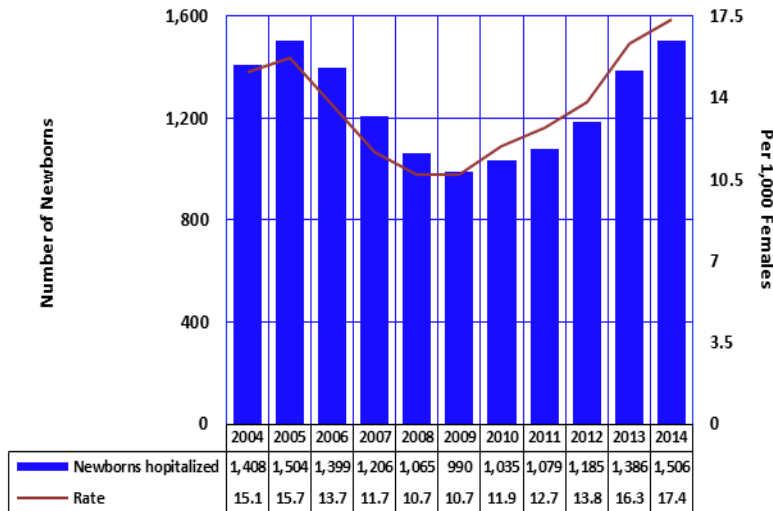
**Figure 1B-24**  
Rates of Admission to Newborn Intensive Care Units<sup>a</sup> by Mother's Race/Ethnicity, Arizona, 2014



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

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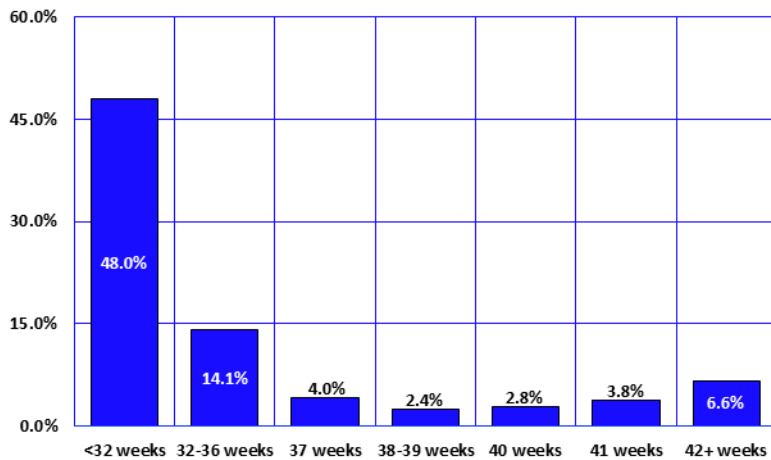
**Figure 1B-25**  
**Newborns Who Were Hospitalized after Birth because They Were Affected by Maternal Use of Drugs during Pregnancy, Arizona, 2004-2014**



Notes: <sup>a</sup> Rate is the number of newborns admitted to Intensive Care Units per 100 births in specified group.

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. Following the four years of decline between 2005 and 2009 in the number of newborns hospitalized after birth due to maternal drug use during pregnancy, the rate increased from 10.7/1,000 in 2009 to 17.4/1,000 in 2014, representing a 62.4 percent increase.

**Figure 1B-26**  
**Abnormal Conditions of the Newborn by Gestational Age, Arizona, 2014**



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

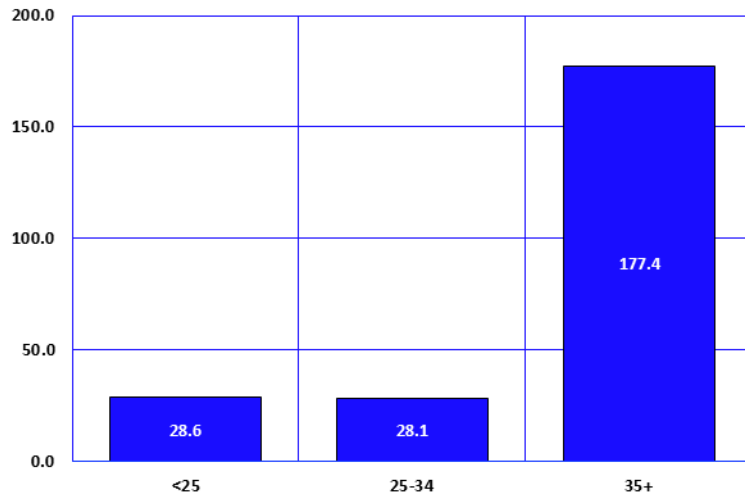
## 1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

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**Figure 1B-27**  
**The Incidence of Down Syndrome by Mother's Age, Arizona, 2014**

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

For various anomalies, rates vary widely with maternal age. For example, in 2014 as in prior years, the rate of Down's Syndrome, the most frequently recognized cause of mental retardation, was substantially higher for births to mothers aged 35 years and over (**Figure 1B-27, Table 1B-33**). The incidence rate of 177.4 cases of Down's Syndrome per 100,000 births to women 35 years or older was 6.2 times greater than the incidence rate of 28.6 for women aged 24 years or younger.



**TABLE 1B-1 (CORRECTION)**  
**BIRTH RATE<sup>a</sup>, GENERAL FERTILITY RATE<sup>b</sup>, TOTAL FERTILITY RATE<sup>c</sup>,**  
**GROSS REPRODUCTION RATE, AND AGE-SPECIFIC BIRTH RATES<sup>d</sup> BY YEAR,**  
**ARIZONA AND UNITED STATES, 2004-2014**

Year	Area	Birth rate	General fertility rate	Total fertility rate <sup>e</sup>	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 years and over
2004	AZ	16.0	75.7	2,309	1,127	0.9	58.2	131.4	125.7	95.7	40.0	9.2	0.6
	U.S.	14.0	66.4	2,046	NA	0.7	41.1	101.7	115.5	95.3	45.4	9.0	0.6
2005	AZ	15.8	74.7	2,278	1,111	0.9	56.5	129.8	125.3	94.5	39.3	8.6	0.6
	U.S.	14.0	66.7	2,054	NA	0.7	40.5	102.2	115.6	95.9	46.3	9.1	0.6
2006	AZ	16.4	80.0	2,392	1,167	0.8	59.6	131.8	132.5	95.6	48.5	9.3	0.3
	U.S.	14.2	68.5	2,101	NA	0.6	41.9	105.9	116.8	97.7	47.3	9.4	0.6
2007	AZ	16.0	78.9	2,364	1,154	0.8	59.5	132.2	124.7	98.6	46.8	9.5	0.7
	U.S.	14.3	69.5	2,122	NA	0.6	42.5	106.3	117.5	99.9	47.5	9.5	0.6
2008	AZ	15.2	74.8	2,236	1,093	0.7	54.9	122.2	119.5	94.2	46.2	9.0	0.6
	U.S.	14.0	68.6	2,084	NA	0.6	41.5	103.0	115.1	99.3	46.9	9.8	0.7
2009	AZ	14.0	68.9	2,058	1,006	0.6	49.1	110.4	110.7	88.6	42.5	8.9	0.8
	U.S.	13.5	66.7	2,007	NA	0.5	39.1	96.3	110.5	97.7	46.5	10.1	0.7
2010	AZ	13.6	68.9	2,058	1,011	0.5	41.6	104.3	116.1	94.4	44.4	9.7	0.7
	U.S.	13.0	64.1	1,931	NA	0.4	34.2	90.0	108.3	96.5	45.9	10.2	0.7
2011	AZ	13.2	67.0	2,001	976	0.5	36.9	101.4	112.3	94.0	44.2	10.3	0.2
	U.S.	12.7	63.2	1,894	NA	0.4	31.3	85.3	107.2	96.5	47.2	10.3	0.7
2012	AZ	13.2	67.2	2,018	984	0.3	35.4	100.1	116.4	94.6	459.0	10.3	0.6
	U.S.	12.6	63.0	1,881	NA	0.4	29.4	83.1	106.5	97.3	48.3	10.4	0.7
2013	AZ	12.9	66.0	1,981	963	0.3	31.3	96.7	118.4	93.0	46.4	9.8	0.1
	U.S.	12.5	62.5	1,870	NA	0.3	26.6	81.2	106.2	98.7	49.6	10.5	0.8
2014	AZ	13.0	66.7	<b>1,986</b>	<b>968</b>	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	105.7	100.8	50.9	10.6	0.8

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 2014 TFR of 1,986 can be interpreted at the individual level as the average number of children a female resident would have by age 50 ( $1,986/1000 = 2$  live births) if she were subject throughout her life to the age-specific birth rates observed in 2014.

<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 2004-2014.

<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.

**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, 2004-2014  
(ALL RACE/ETHNIC GROUPS)**

<b>Characteristic</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
<b>Number of births</b>	93,396	95,798	102,042	102,687	99,215	92,616	87,053	85,190	85,725	84,963	86,648
<b>Age of mother</b>											
≤19 years	12.7	12.5	12.7	12.6	12.3	11.8	10.8	9.9	9.5	8.5	7.6
≥30 years	32.3	32.2	31.6	32.3	33.1	33.8	35.0	36.1	36.7	37.2	38.8
<b>Marital status</b>											
Unmarried	41.9	42.8	43.9	45.0	45.1	45.2	44.7	44.3	45.2	45.1	44.7
<b>Mother's education</b>											
<9 years	9.3	8.7	8.2	7.8	6.9	6.1	5.3	4.6	4.3	3.8	3.7
<b>Mother's race/ethnicity</b>											
White <sup>b</sup>	42.0	41.4	42.2	41.1	42.3	43.0	44.5	45.0	45.1	45.0	46.3
Hispanic	43.7	44.0	44.0	44.5	43.0	41.4	39.4	38.0	38.7	38.9	38.9
Black	3.4	3.6	3.8	4.1	4.3	4.7	5.0	5.1	5.5	5.6	5.2
American Indian	6.6	6.6	6.2	6.2	6.4	6.7	6.7	6.8	6.5	6.4	5.9
Asian or Pacific Islander	4.2	4.4	3.9	4.0	4.1	4.2	4.4	5.0	4.2	4.1	3.7
<b>Prenatal care begin</b>											
1 <sup>st</sup> Trimester	76.3	77.7	77.7	77.6	79.4	80.3	81.9	81.7	82.6	81.3	66.0
3 <sup>rd</sup> Trimester	4.4	3.8	3.7	3.7	3.6	3.4	3.2	3.1	3.2	3.6	5.3
No Care	2.8	2.3	2.4	2.2	1.8	1.8	1.6	1.6	1.2	1.4	2.1
<b>Prenatal visits</b>											
1-4	4.6	4.2	4.0	3.9	3.6	3.5	3.3	3.4	3.6	3.8	4.4
≥5	91.7	93.3	93.5	93.9	94.5	94.5	94.9	94.5	94.9	94.7	92.1
≥9	75.5	76.6	76.4	76.7	77.8	78.9	80.5	80.6	81.3	81.2	77.6
≥13	27.6	25.9	27.5	29.4	29.9	30.0	31.6	33.7	34.6	34.8	30.7
<b>Medical risk/ Complications<sup>c</sup></b>	44.6	44.7	44.3	45.3	46.5	48.1	49.7	46.3	52.4	55.5	18.0
<b>Gestational age<sup>d</sup></b>											
Preterm (<37 weeks)	11.0	10.7	10.6	10.3	10.2	10.0	9.6	9.3	9.2	9.0	9.0
<b>Birth weight</b>											
<2,500 grams	7.2	6.9	7.1	7.1	7.1	7.1	7.1	7.0	6.9	6.9	7.0
<1,500 grams	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.2	1.2	1.1	1.2
<b>Child's sex</b>											
Male	51.2	51.2	51.2	51.2	51.1	51.1	50.9	51.2	51.2	51.4	51.3
Female	48.8	48.8	48.8	48.8	48.9	48.9	49.1	48.8	48.8	48.6	48.7
<b>Plurality</b>											
Multiple births	2.9	2.7	2.8	2.7	2.9	2.8	2.9	2.8	2.8	3.0	3.0
<b>Caesarean delivery</b>	23.7	25.0	26.0	26.6	27.5	27.7	27.6	27.9	27.6	27.8	27.7
<b>Place of delivery</b>											
Hospital <sup>e</sup>	98.8	98.9	98.9	99.0	99.0	98.8	98.8	98.5	98.6	98.7	98.5
<b>Attendant at birth</b>											
Midwife <sup>f</sup>	6.7	6.1	5.6	5.7	6.1	6.5	6.6	6.4	7.2	7.4	10.2
<b>Previous live births</b>											
1 or more	62.9	63.0	62.5	63.1	63.3	63.1	63.0	62.6	62.7	63.6	64.0

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

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

<sup>c</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery.

<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, 2004-2014  
(ALL RACE/ETHNIC GROUPS)**

<b>Characteristic</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
<b>Number of births</b>	6,704	6,640	7,266	7,285	7,026	6,573	6,155	5,949	5,946	5,849	6,069
<b>Age of mother</b>											
≤19 years	14.3	14.2	14.5	14.2	13.2	13.1	12.3	11.6	10.7	8.9	7.8
≥30 years	34.3	33.5	34.3	34.7	35.8	37.4	37.8	37.9	39.4	37.9	40.9
<b>Marital status</b>											
Unmarried	46.5	48.3	48.3	49.2	48.6	48.5	49.4	50.0	51.4	51.3	49.1
<b>Mother's education</b>											
<9 years	8.7	8.3	7.8	7.7	6.3	5.7	4.7	4.5	4.5	4.2	3.8
<b>Mother's race/ethnicity</b>											
White <sup>b</sup>	42.3	41.1	39.8	40.9	41.0	41.5	41.9	43.5	42.1	42.0	44.7
Hispanic	41.2	40.8	42.3	41.5	40.8	38.7	38.1	34.9	37.9	37.6	37.0
Black	5.6	6.6	6.7	7.3	7.2	8.5	8.0	9.2	9.3	8.9	8.8
American Indian	6.6	6.9	6.5	5.8	6.1	6.0	6.6	6.8	6.3	6.7	5.2
Asian or Pacific Islander	4.4	4.7	4.7	4.5	5.0	5.2	5.4	5.7	4.4	4.7	4.2
<b>Prenatal care began</b>											
1st Trimester	75.4	77.4	77.2	77.4	79.5	80.6	81.0	81.2	80.0	78.9	63.6
3rd Trimester	2.9	2.7	2.8	3.1	2.9	2.6	2.7	2.3	2.7	3.4	4.1
No Care	4.5	4.7	4.9	4.5	3.8	3.6	3.2	3.2	2.9	2.9	4.8
<b>Prenatal visits</b>											
1-4	9.3	9.4	8.5	8.2	7.7	7.6	7.5	7.3	8.6	8.2	8.6
≥5	84.7	85.6	86.3	87.1	88.2	88.3	88.8	88.5	87.9	88.5	84.8
≥9	59.8	60.3	60.1	61.2	63.0	64.1	65.2	65.0	65.5	66.4	60.4
≥13	23.9	22.1	21.9	25.1	25.6	25.7	27.1	28.5	26.7	27.7	22.1
<b>Medical risks/ Complications<sup>c</sup></b>	63.8	67.2	65.1	65.9	68.7	70.5	73.3	69.2	73.2	72.5	33.3
<b>Gestational age<sup>d</sup></b>											
Preterm (<37 weeks)	73.3	73.7	72.7	72.3	71.7	71.2	70.2	70.1	71.2	70.2	69.4
<b>Birth weight</b>											
<1,500 grams	16.4	16.9	16.9	16.8	16.5	16.7	15.3	16.8	16.6	15.8	16.8
<1,000 grams	7.9	8.7	7.7	8.1	7.7	8.0	7.1	8.3	8.1	7.4	8.4
<b>Child's sex</b>											
Male	48.0	47.1	47.5	47.9	48.1	47.8	46.5	46.8	48.7	49.3	47.7
Female	52.0	52.9	52.5	52.1	51.9	52.2	53.5	53.2	51.3	50.7	52.3
<b>Plurality</b>											
Multiple births	23.7	22.2	22.5	23.1	23.3	22.1	23.1	22.8	23.0	24.4	23.7
<b>Caesarean delivery</b>	40.8	42.5	43.2	44.2	46.7	46.4	46.5	46.8	47.7	47.6	47.4
<b>Place of delivery</b>											
Hospital <sup>e</sup>	99.6	99.6	99.7	99.6	99.7	99.8	99.6	99.4	99.7	99.7	99.7
<b>Attendant at birth</b>											
Midwife <sup>f</sup>	3.1	2.5	1.9	2.5	2.6	2.3	2.6	2.3	2.5	2.7	9.5
<b>Previous live births</b>											
1 or more	58.1	58.3	59.6	60.5	60.5	59.7	60.3	59.6	61.4	60.5	61.4

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.

<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, 2004-2014**  
**(URBAN REGIONS)<sup>b</sup>**

Characteristic		2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Number of births</b>		79,951	82,141	87,910	88,266	85,263	79,046	74,624	73,040	74,128	73,493	74,677
<b>Age of mother</b>	≤19 years	12.2	12.0	12.3	12.1	11.7	11.2	10.3	9.4	9.0	8.2	7.3
	≥30 years	33.1	32.9	32.5	33.3	34.1	35.1	36.2	37.4	37.9	38.4	40.0
<b>Marital status</b>	Unmarried	41.1	41.9	43.0	44.3	44.1	44.2	43.6	43.2	44.1	44.1	43.6
<b>Mother's education</b>	<9 years	9.9	9.3	8.8	8.3	7.4	6.5	5.6	4.9	4.7	4.0	3.9
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	41.4	40.8	41.5	40.2	41.5	42.1	44.1	45.0	44.6	44.3	45.7
	Hispanic	46.7	46.9	46.7	47.5	45.8	44.4	42.0	40.5	40.9	41.3	41.3
	Black	3.8	4.0	4.2	4.5	4.8	5.3	5.6	5.7	6.1	6.2	5.9
	American Indian	3.4	3.4	3.5	3.5	3.5	3.6	3.6	3.7	3.7	3.7	3.1
	Asian or Pacific Islander	4.6	4.8	4.1	4.3	4.3	4.6	4.7	5.0	4.7	4.5	4.0
<b>Prenatal care began</b>	1st Trimester	77.1	78.4	78.4	78.2	80.4	81.5	83.1	82.5	83.4	82.1	66.6
	3rd Trimester	4.3	3.6	3.5	3.5	3.3	3.0	2.9	2.9	3.1	3.5	5.2
	No care	2.9	2.4	2.4	2.2	1.7	1.9	1.6	1.6	1.2	1.3	2.1
<b>Prenatal visits</b>	1-4	4.3	3.9	3.7	3.5	3.1	3.0	2.9	3.0	3.2	3.5	4.0
	≥5	92.0	93.7	93.7	94.2	95.1	94.9	95.4	94.8	95.3	95.1	92.4
	≥9	76.6	77.4	77.2	77.5	79.1	80.1	81.9	81.8	82.4	82.3	78.7
	≥13	27.7	25.5	27.5	29.6	30.1	30.6	32.1	34.1	35.1	35.3	31.1
<b>Medical risks/complications<sup>d</sup></b>		42.6	42.4	42.8	44.4	46.3	48.6	50.1	47.2	52.5	56.1	17.8
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	11.0	10.8	10.7	10.3	10.2	10.1	9.7	9.4	9.2	9.1	9.1
<b>Birth weight</b>	<2,500 grams	7.1	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.8	7.0
	<1,500 grams	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.2	1.2	1.1	1.2
<b>Child's sex</b>	Male	51.1	51.1	51.2	51.3	51.0	51.3	50.8	51.2	51.2	51.4	51.3
	Female	48.9	48.9	48.8	48.7	49.0	48.7	49.2	48.8	48.8	48.6	48.7
<b>Plurality</b>	Multiple births	3.0	2.8	2.8	2.8	3.0	2.8	3.0	2.9	2.9	3.1	3.1
<b>Caesarean delivery</b>		23.8	25.4	26.0	26.8	27.8	28.1	28.0	28.3	27.9	28.1	28.1
<b>Place of delivery</b>	Hospital <sup>f</sup>	99.1	99.2	99.2	99.3	99.3	99.1	99.0	98.8	98.7	98.7	98.7
<b>Attendant at birth</b>	Midwife <sup>g</sup>	5.7	5.0	4.5	4.6	5.1	5.5	5.4	5.2	6.3	6.3	10.1
<b>Previous live births</b>	1 or more	62.7	62.9	62.3	62.9	63.1	62.9	62.8	62.4	62.6	63.4	63.7
<b>Number of LBW births</b>		5,666	5,630	6,175	6,205	5,974	5,548	5,238	5,065	5,096	5,013	5,232
<b>Age of mother</b>	≤19 years	13.6	13.7	14.3	13.7	12.6	12.7	12.1	10.9	10.2	8.8	7.3
	≥30 years	35.5	33.9	35.3	35.9	37.0	38.5	38.8	39.3	40.4	39.3	42.0
<b>Marital status</b>	Unmarried	45.5	47.2	47.2	48.6	47.4	48.1	48.4	49.0	50.1	50.8	48.3
<b>Mother's education</b>	<9 years	9.2	8.9	8.2	8.2	6.7	5.8	5.2	4.9	4.7	4.3	4.0
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	42.0	40.5	39.1	39.6	39.8	40.5	41.1	42.8	41.1	40.9	43.3
	Hispanic	43.6	43.7	44.6	44.2	43.6	40.9	40.5	37.2	40.2	39.8	39.4
	Black	6.3	7.4	7.6	8.3	8.0	9.8	9.1	10.3	10.4	10.2	9.9
	American Indian	3.3	3.5	3.8	3.1	3.2	3.0	3.5	3.4	3.3	4.0	2.7
	Asian or Pacific Islander	4.9	4.9	4.9	4.8	5.5	5.7	5.7	6.3	4.9	5.1	4.6
<b>Prenatal care began</b>	1st Trimester	75.9	78.0	78.1	77.6	80.2	81.3	82.1	81.9	80.5	79.8	63.8
	3rd Trimester	2.9	2.4	2.6	2.9	2.6	2.2	2.4	2.0	2.6	3.3	4.1
	No care	4.7	4.7	4.9	4.5	3.9	3.8	3.0	3.0	2.8	2.7	4.9
<b>Prenatal visits</b>	1-4	9.1	9.3	8.4	8.1	7.3	7.2	7.1	7.0	7.8	7.8	8.4
	≥5	84.8	85.8	86.5	87.3	88.6	88.7	89.5	88.8	88.9	89.1	84.8
	≥9	60.5	60.9	60.6	61.7	63.7	65.0	66.6	65.8	66.5	67.7	60.8
	≥13	24.6	22.1	22.4	25.6	25.7	26.3	28.1	29.1	27.3	28.4	22.6
<b>Medical risks/complications<sup>d</sup></b>		62.7	65.7	64.4	66.0	69.6	71.8	74.6	70.8	74.2	73.7	33.2
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	74.1	75.0	73.5	72.9	72.7	72.2	70.6	71.2	71.3	70.8	70.7
<b>Birth weight</b>	<1,500 grams	16.6	17.2	17.1	17.1	16.8	17.2	15.3	17.4	16.9	15.9	17.0
	<1,000 grams	8.1	9.0	8.0	8.3	8.0	8.3	7.3	8.7	8.4	7.6	8.6
<b>Child's sex</b>	Male	47.7	46.8	47.1	48.2	47.9	48.0	45.9	47.0	48.6	49.2	48.1
	Female	52.2	53.2	52.9	51.8	52.1	52.0	54.1	53.0	51.4	50.8	51.9
<b>Plurality</b>	Multiple births	25.3	22.9	23.2	24.4	23.9	22.8	24.0	23.3	23.9	25.2	24.3
<b>Caesarean delivery</b>		41.1	43.1	43.4	45.1	47.4	47.2	47.0	47.7	48.7	48.0	48.3
<b>Place of delivery</b>	Hospital <sup>f</sup>	99.7	99.7	99.8	99.7	99.8	99.8	99.7	99.5	99.8	99.8	99.8
<b>Attendant at birth</b>	Midwife <sup>g</sup>	2.4	1.8	1.4	1.9	2.2	1.9	2.1	1.6	2.0	2.2	9.5
<b>Previous live births</b>	1 or more	58.4	58.1	58.9	60.1	59.8	59.7	59.3	59.2	61.2	60.0	61.4

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

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

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

<sup>d</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery.

<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, 2004-2014  
(RURAL REGIONS)<sup>b</sup>**

Characteristic		2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Number of births</b>		13,409	13,603	14,083	14,413	13,952	13,570	12,429	12,150	11,597	11,470	11,955
<b>Age of mother</b>	≤19 years	15.5	15.5	14.9	15.8	15.4	15.4	13.9	12.7	12.2	10.6	9.8
	≥30 years	27.3	27.9	26.6	26.2	26.8	26.7	27.9	28.2	29.3	29.4	31.3
<b>Marital status</b>	Unmarried	46.8	48.4	49.2	49.4	51.1	50.7	51.2	51.0	52.4	52.0	51.7
<b>Mother's education</b>	<9 years	5.6	5.4	4.9	4.5	4.0	4.0	3.1	2.5	2.2	2.4	2.3
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	45.7	45.0	46.5	46.6	46.7	48.1	47.2	47.9	48.7	49.1	49.8
	Hispanic	26.1	26.3	26.7	26.6	25.7	24.3	24.4	23.0	24.1	24.0	24.2
	Black	1.1	1.0	1.1	1.1	1.3	1.2	1.2	1.4	1.5	1.3	0.9
	American Indian	25.2	25.4	23.5	23.2	24.4	24.4	25.0	25.7	24.2	24.0	23.5
	Asian or Pacific Islander	1.9	2.2	2.2	2.6	2.0	2.1	2.2	2.0	1.5	1.7	1.5
<b>Prenatal care began</b>	1st Trimester	71.4	73.9	73.5	73.7	72.7	73.3	74.8	77.1	77.7	76.3	62.5
	3rd Trimester	4.8	4.7	4.9	4.8	5.2	5.5	5.3	4.1	4.3	4.1	6.3
	No care	2.1	2.1	1.9	1.9	1.9	1.5	1.8	1.5	1.5	2.2	1.9
<b>Prenatal visits</b>	1-4	6.5	6.1	6.2	6.0	6.8	6.1	5.9	5.7	5.7	5.6	6.6
	≥5	90.1	91.5	91.7	91.9	91.1	92.0	91.8	92.3	92.4	92.0	90.5
	≥9	68.9	72.4	71.1	71.4	69.7	71.5	71.9	73.3	73.9	73.8	71.1
	≥13	26.7	28.0	27.6	27.9	28.8	26.5	28.7	31.2	31.0	31.7	28.3
<b>Medical risks/complications<sup>d</sup></b>		56.6	58.3	53.5	50.7	48.2	45.1	47.9	41.1	52.0	51.8	19.7
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	10.9	10.0	10.0	10.0	9.7	9.7	9.4	8.8	9.1	8.7	8.3
<b>Birth weight</b>	<2,500 grams	7.7	7.4	7.7	7.5	7.5	7.6	7.4	7.3	7.3	7.3	7.0
	<1,500 grams	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1
<b>Child's sex</b>	Male	51.5	51.7	51.0	50.0	51.3	50.3	51.4	51.3	51.2	51.3	51.1
	Female	48.5	48.3	49.0	50.0	48.7	49.7	48.6	48.7	48.8	48.7	48.9
<b>Plurality</b>	Multiple births	2.0	2.3	2.4	2.2	2.4	2.5	2.3	2.6	2.2	2.4	2.5
<b>Caesarean delivery</b>		22.9	23.1	25.8	25.3	26.0	25.4	25.2	25.8	25.7	25.8	25.2
<b>Place of delivery</b>	Hospital <sup>f</sup>	96.8	96.9	97.2	97.3	97.1	96.9	97.2	97.0	98.0	98.2	97.7
<b>Attendant at birth</b>	Midwife <sup>g</sup>	12.6	12.9	12.4	12.5	12.7	12.6	13.4	14.0	13.4	14.2	10.7
<b>Previous live births</b>	1 or more	64.4	64.1	64.3	64.5	64.4	64.3	64.3	63.8	63.3	64.8	66.0
<b>Number of LBW births</b>		1,030	1,003	1,080	1,080	1,052	1,025	917	884	850	836	835
<b>Age of mother</b>	≤19 years	17.8	17.5	16.0	17.2	16.4	15.1	13.1	15.5	13.9	9.7	11.3
	≥30 years	27.6	31.5	28.8	28.1	29.4	31.1	31.7	30.1	32.8	29.9	34.5
<b>Marital status</b>	Unmarried	52.1	54.0	54.9	53.1	55.2	50.6	55.2	55.7	59.1	54.2	53.9
<b>Mother's education</b>	<9 years	6.2	5.4	5.4	4.8	3.9	4.9	2.3	2.3	3.1	3.0	2.3
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	43.8	44.8	43.5	48.0	47.6	46.8	46.6	47.3	48.1	49.2	53.5
	Hispanic	28.2	24.7	29.5	25.8	24.9	26.9	24.1	21.6	24.2	24.4	22.0
	Black	1.7	1.8	1.8	1.8	2.6	1.3	1.4	2.6	2.2	1.4	2.2
	American Indian	24.5	26.2	21.9	21.4	22.7	22.2	24.1	26.2	24.0	22.8	20.7
	Asian or Pacific Islander	1.9	2.5	3.3	3.1	2.2	2.8	3.8	2.3	1.4	2.2	1.6
<b>Prenatal care began</b>	1st Trimester	72.5	74.1	72.0	76.0	75.7	76.7	74.3	77.3	76.5	74.0	62.5
	3rd Trimester	2.4	4.7	4.3	4.2	4.1	4.4	4.0	3.5	3.4	4.2	4.0
	No care	3.5	4.4	5.2	4.5	3.5	2.6	4.4	4.0	3.8	4.1	4.0
<b>Prenatal visits</b>	1-4	10.6	9.9	9.4	9.4	10.2	9.8	9.5	8.7	13.1	10.3	9.7
	≥5	83.7	85.0	84.9	85.9	85.8	86.4	85.1	86.2	82.0	84.7	84.9
	≥9	55.9	57.3	56.8	58.1	59.0	59.2	57.4	60.4	59.2	58.9	58.2
	≥13	20.1	22.1	19.3	22.0	24.9	22.6	21.3	25.2	22.9	23.3	19.2
<b>Medical risks/complications<sup>d</sup></b>		69.3	75.3	69.2	65.1	63.9	63.6	66.1	60.2	67.4	65.4	33.7
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	69.5	66.1	68.0	68.9	65.9	65.7	67.8	64.0	70.5	66.6	61.0
<b>Birth weight</b>	<1,500 grams	15.2	14.8	15.7	15.3	14.5	14.4	15.3	13.5	14.5	15.7	15.3
	<1,000 grams	6.7	7.1	6.2	7.1	5.7	5.9	6.3	6.0	6.2	6.3	7.1
<b>Child's sex</b>	Male	49.2	48.5	49.8	46.1	49.1	47.0	50.2	45.9	49.2	50.0	45.0
	Female	50.8	51.5	50.2	53.9	50.8	53.0	49.8	54.1	50.8	50.0	55.0
<b>Plurality</b>	Multiple births	15.0	17.8	18.2	15.9	19.8	18.4	17.9	20.5	17.9	19.5	20.2
<b>Caesarean delivery</b>		39.0	38.6	41.6	39.2	42.7	42.0	43.2	41.4	41.8	45.5	42.3
<b>Place of delivery</b>	Hospital <sup>f</sup>	99.1	98.8	99.4	99.3	99.1	99.4	99.2	98.5	98.9	99.2	99.0
<b>Attendant at birth</b>	Midwife <sup>g</sup>	6.5	6.1	5.3	5.6	5.1	4.6	5.3	6.3	5.2	5.7	9.2
<b>Previous live births</b>	1 or more	56.6	59.5	63.1	62.2	64.6	59.8	65.6	62.2	62.4	63.3	61.1

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.

<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, 2004-2014  
(WHITE NON-HISPANIC MOTHERS)**

<b>Characteristic</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
<b>Number of births</b>	39,271	39,657	43,013	42,216	41,925	39,781	38,777	38,294	38,670	38,220	40,097
<b>Age of mother</b>											
≤19 Years	7.1	6.9	7.5	7.3	7.1	6.8	6.2	5.5	5.1	4.7	4.4
≥30 Years	40.3	39.3	37.9	38.5	38.7	39.3	40.4	41.5	42.9	43.2	45.1
<b>Marital status</b>											
Unmarried	24.8	26.1	27.7	28.4	29.5	29.7	29.9	29.5	30.4	30.3	31.1
<b>Mother's education</b>											
<9 years	1.4	1.3	1.2	1.2	1.1	1.2	1.1	1.2	1.0	0.8	0.7
<b>Prenatal care began</b>											
1st Trimester	87.3	87.7	86.9	86.5	87.3	87.9	88.2	88.0	88.4	87.4	71.7
3rd Trimester	1.9	1.8	2.0	2.1	1.9	1.9	2.1	1.8	1.8	2.0	3.5
No Care	0.7	0.8	0.9	0.9	0.7	0.7	0.6	0.6	0.6	0.7	1.1
<b>Prenatal visits</b>											
1-4	2.1	2.0	2.0	2.1	2.0	1.8	1.7	1.7	2.0	2.1	2.6
≥5	96.1	97.1	96.9	97.0	97.2	97.3	97.5	97.1	97.1	97.1	94.8
≥9	85.2	85.7	84.9	84.6	85.0	86.4	87.6	86.9	87.3	87.2	83.7
≥13	30.6	29.9	32.4	34.6	34.8	35.0	37.4	39.7	41.2	41.9	36.6
<b>Medical risks/ Complications<sup>b</sup></b>	58.7	48.1	45.4	47.5	47.7	48.1	49.5	46.1	50.6	55.1	16.2
<b>Gestational Age<sup>c</sup></b>											
Preterm (<37 weeks)	11.4	10.9	10.5	10.4	10.1	9.9	9.2	9.1	8.7	8.4	8.6
<b>Birth weight</b>											
<2,500 grams	7.2	6.9	6.7	7.1	6.9	6.9	6.7	6.7	6.5	6.4	6.8
<1,500 grams	1.1	1.1	1.1	1.1	1.1	1.1	0.9	1.1	1.0	1.0	1.1
<b>Child's sex</b>											
Male	51.0	51.5	51.3	50.8	51.1	51.2	51.4	51.1	51.3	51.3	51.3
Female	49.0	48.5	48.7	49.2	48.9	48.8	48.6	48.9	48.7	48.7	48.7
<b>Plurality</b>											
Multiple births	3.8	3.4	3.2	3.5	3.6	3.4	3.5	3.5	3.4	3.6	3.7
<b>Caesarean delivery</b>	25.9	27.1	27.9	28.6	29.5	29.5	29.1	29.4	28.7	28.4	28.8
<b>Place of delivery</b>											
Hospital <sup>d</sup>	97.6	97.8	97.9	97.9	97.9	97.6	97.7	97.4	97.4	97.6	97.4
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	3.6	3.1	3.8	3.6	4.0	4.5	4.8	4.9	6.0	6.5	12.6
<b>Previous live births</b>											
1 or more	59.8	59.2	58.9	59.7	59.5	59.4	59.6	59.2	59.6	60.5	60.9

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

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery.

<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, 2004-2014**  
**(WHITE NON-HISPANIC MOTHERS)**

Characteristic	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Number of LBW births</b>	2,836	2,729	2,891	2,978	2,878	2,727	2,579	2,586	2,505	2,459	2,715
<b>Age of mother</b>											
≤19 years	9.3	8.6	8.6	8.8	7.6	8.7	7.1	6.8	6.5	5.2	4.8
≥30 years	41.9	40.5	41.8	40.9	41.8	43.2	43.6	44.8	45.5	42.5	47.5
<b>Marital status</b>											
Unmarried	30.3	32.7	33.0	34.6	34.1	33.5	34.7	36.2	37.2	36.9	37.9
<b>Mother's education</b>											
<9 years	1.6	1.8	1.8	1.6	1.4	1.1	1.1	1.5	1.4	1.6	1.1
<b>Prenatal care began</b>											
1st Trimester	84.8	86.9	85.6	86.2	86.5	86.8	86.1	86.4	84.2	83.9	69.4
3rd Trimester	1.7	1.6	1.7	1.8	1.7	1.9	2.1	1.4	2.0	2.2	3.2
No Care	1.9	2.1	3.0	2.4	2.1	1.9	2.2	1.7	2.2	1.6	3.4
<b>Prenatal visits</b>											
1-4	5.7	5.8	5.2	5.5	4.7	5.3	4.5	4.5	6.1	5.6	6.0
≥5	90.4	92.0	91.6	92.0	92.9	92.4	92.9	92.5	91.1	92.4	88.7
≥9	69.6	69.7	68.6	70.1	69.8	70.6	74.4	71.5	71.4	70.6	67.4
≥13	29.4	28.1	27.1	31.0	29.9	30.5	34.3	34.6	31.7	33.0	28.4
<b>Medical risks/ Complications<sup>b</sup></b>	66.2	70.9	66.5	68.6	71.5	71.5	73.2	72.2	74.2	75.2	32.3
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	76.8	74.3	74.6	74.0	72.9	71.7	69.5	70.9	71.4	70.7	68.7
<b>Birth weight</b>											
<1,500 grams	14.9	15.8	16.1	15.0	15.7	15.5	13.3	16.7	16.1	15.3	16.4
<1,000 grams	7.1	8.4	7.1	6.2	6.8	6.9	5.7	7.6	7.6	6.9	7.3
<b>Child's sex</b>											
Male	47.2	46.2	47.4	46.9	47.0	46.3	45.4	47.1	46.7	49.3	47.0
Female	52.8	53.8	52.6	53.1	53.0	53.7	54.6	52.9	53.3	50.7	53.0
<b>Plurality</b>											
Multiple births	30.3	28.8	28.7	29.6	30.1	26.7	29.2	29.1	28.8	29.7	30.3
<b>Caesarean delivery</b>	46.8	47.9	48.4	49.6	53.2	50.5	51.1	50.9	52.5	49.5	52.2
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.5	99.6	99.5	99.5	99.4	99.7	99.5	99.2	99.4	99.6	99.5
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	1.4	0.9	0.9	1.2	1.3	1.1	1.1	1.0	1.3	1.7	11.4
<b>Previous live births</b>											
1 or more	54.6	54.3	56.9	57.5	58.3	56.7	58.2	56.2	57.9	56.8	58.8

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

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery.

<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, 2004-2014**  
**(HISPANIC OR LATINO MOTHERS)**

Characteristic	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Number of births</b>	40,822	42,156	44,862	45,731	42,639	38,362	34,333	32,398	33,146	33,075	33,715
<b>Age of mother</b>											
≤19 years	17.5	17.1	17.2	17.0	16.8	16.5	15.6	14.3	14.0	12.3	11.3
≥30 years	24.7	25.6	25.5	26.5	27.5	28.4	29.4	29.8	30.2	30.6	31.9
<b>Marital status</b>											
Unmarried	53.9	54.3	55.4	56.7	56.5	56.9	56.2	56.6	57.2	57.1	56.1
<b>Mother's education</b>											
<9 years	18.8	17.5	16.4	15.4	13.9	12.3	10.7	9.3	8.7	7.6	7.5
<b>Prenatal care began</b>											
1st Trimester	67.0	69.5	70.1	70.5	73.4	74.1	76.6	76.5	78.2	76.2	60.5
3rd Trimester	6.3	5.2	5.1	4.9	4.5	4.4	4.1	4.1	4.3	5.0	6.9
No Care	4.5	3.6	3.6	3.2	2.5	2.9	2.6	2.5	1.9	2.1	3.2
<b>Prenatal visits</b>											
1-4	6.4	5.5	5.2	4.9	4.4	4.5	4.2	4.4	4.5	4.8	5.4
≥5	88.4	90.8	91.0	91.8	93.0	92.4	93.0	92.7	93.3	93.0	90.2
≥9	67.9	70.0	70.3	71.2	73.3	73.4	75.0	76.3	77.0	77.0	73.5
≥13	25.8	22.9	23.9	25.7	26.7	26.3	27.2	28.8	29.1	29.0	26.2
<b>Medical risks/ Complications<sup>b</sup></b>	39.3	40.5	41.5	41.4	43.7	46.4	48.0	44.2	52.6	54.6	17.8
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	10.3	10.1	10.1	9.8	9.9	9.7	9.5	9.1	9.4	9.3	9.2
<b>Birth weight</b>											
<2,500 grams	6.8	6.4	6.9	6.6	6.7	6.6	6.8	6.4	6.8	6.6	6.7
<1,500 grams	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
<b>Child's sex</b>											
Male	51.2	51.1	51.2	51.4	51.0	51.1	50.5	51.4	51.2	51.3	51.3
Female	48.8	48.9	48.8	48.6	49.0	48.9	49.5	48.6	48.8	48.7	48.7
<b>Plurality</b>											
Multiple births	2.2	2.3	2.4	2.2	2.2	2.2	2.3	2.1	2.1	2.4	2.2
<b>Caesarean delivery</b>	21.9	23.5	24.0	24.6	25.7	25.8	25.9	26.1	26.0	26.7	26.1
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.7	99.7	99.8	99.7	99.8	99.7	99.7	99.6	99.6	99.6	99.5
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	5.9	5.2	4.6	4.9	5.6	6.0	5.7	5.3	6.1	5.9	7.4
<b>Previous live births</b>											
1 or more	65.9	66.7	66.0	66.4	67.4	67.2	66.9	66.6	66.2	67.0	67.4

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

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery.

<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, 2004-2014  
(HISPANIC OR LATINO MOTHERS)**

<b>Characteristic</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
<b>Number of LBW births</b>	2,759	2,710	3,074	3,021	2,866	2,546	2,342	2,075	2,256	2,199	2,247
<b>Age of mother</b>											
≤19 years	18.9	19.6	20.5	19.4	18.7	18.1	17.1	16.6	15.0	12.9	11.7
≥30 years	26.7	26.6	27.0	28.5	29.0	31.7	32.6	29.3	32.3	31.7	33.0
<b>Marital status</b>											
Unmarried	58.0	59.2	58.6	60.2	58.6	58.7	60.6	61.7	61.9	61.5	58.1
<b>Mother's education</b>											
<9 years	18.2	16.8	15.0	15.7	12.2	12.2	9.5	9.3	8.5	7.2	7.4
<b>Prenatal care began</b>											
1st Trimester	67.2	69.5	71.1	69.7	74.8	75.9	76.7	77.2	76.5	74.8	59.3
3rd Trimester	3.9	3.4	3.6	4.0	3.2	2.7	3.2	2.7	3.2	3.8	4.9
No Care	6.5	6.7	6.4	6.0	4.7	5.2	3.9	4.3	3.7	4.2	5.8
<b>Prenatal visits</b>											
1-4	12.5	12.5	11.0	10.7	9.6	9.5	9.2	9.7	10.6	9.5	10.5
≥5	79.9	80.6	82.3	83.1	85.5	85.0	86.2	85.4	85.4	85.9	82.2
≥9	50.9	52.7	53.5	54.4	58.5	58.2	58.7	59.9	59.9	63.7	55.2
≥13	19.9	16.9	18.6	20.7	22.5	21.3	21.4	23.6	21.9	24.1	16.3
<b>Medical risks</b>											
<b>Complications<sup>b</sup></b>	61.1	63.5	62.4	62.2	67.1	69.0	72.8	66.4	73.8	70.3	32.7
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	71.7	74.3	71.5	71.6	72.0	71.1	70.9	71.4	72.0	71.5	72.0
<b>Birth weight</b>											
<1,500 grams	18.2	18.0	18.2	18.2	16.3	17.1	15.6	16.6	16.8	16.7	16.6
<1,000 grams	9.0	9.4	8.6	9.8	7.4	8.4	7.3	8.9	8.2	8.0	8.9
<b>Child's sex</b>											
Male	48.1	47.1	47.2	49.3	48.9	48.5	47.8	46.7	51.1	49.9	49.3
Female	51.9	52.9	52.8	50.7	51.1	51.5	52.2	53.3	48.9	50.1	50.7
<b>Plurality</b>											
Multiple births	19.5	18.9	19.1	19.5	18.3	18.6	18.8	18.1	18.5	21.3	18.0
<b>Caesarean delivery</b>	36.5	38.3	39.8	40.1	41.4	42.6	42.5	44.4	43.3	46.5	42.9
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.7	99.6	99.9	99.7	99.9	99.9	99.9	99.6	99.8	99.8	99.9
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	2.8	2.5	1.5	2.4	2.9	2.6	3.0	2.4	3.0	2.5	7.0
<b>Previous live births</b>											
1 or more	60.7	60.8	61.2	63.8	62.2	63.0	63.0	62.8	63.9	63.4	63.7

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

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery.

<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, 2004-2014**  
**(BLACK OR AFRICAN AMERICAN MOTHERS)**

Characteristic	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Number of births</b>	3,216	3,450	3,864	4,165	4,301	4,378	4,328	4,366	4,715	4,726	4,522
<b>Age of mother</b>											
≤19 years	16.8	16.5	15.6	14.9	15.3	13.8	13.0	12.8	11.5	10.7	8.7
≥30 years	25.7	25.3	26.2	27.0	26.7	28.2	28.3	30.3	30.2	30.6	34.1
<b>Marital status</b>											
Unmarried	62.0	61.9	62.3	61.9	62.6	62.7	63.1	63.6	64.8	63.7	62.5
<b>Mother's education</b>											
<9 years	3.0	4.8	4.6	4.4	5.0	4.4	5.2	4.3	4.3	3.7	3.3
<b>Prenatal care began</b>											
1st Trimester	75.8	76.6	77.4	76.8	77.6	80.3	81.6	80.4	79.9	78.2	61.4
3rd Trimester	4.4	3.4	2.8	3.7	3.7	2.9	3.3	3.0	3.4	4.5	7.7
No Care	3.3	2.6	2.3	2.7	2.1	1.6	1.7	1.6	1.1	1.3	2.8
<b>Prenatal visits</b>											
1-4	4.6	4.5	4.1	4.4	3.7	3.6	4.1	4.0	4.5	4.7	6.2
≥5	91.0	92.7	93.3	92.8	93.9	94.5	94.0	93.4	94.1	93.8	89.7
≥9	75.2	74.4	74.6	75.0	75.4	78.6	78.4	79.1	78.5	79.1	72.1
≥13	28.5	24.6	26.9	28.2	28.5	29.5	30.4	33.6	32.7	31.0	24.7
<b>Medical risks</b>											
<b>Complications<sup>b</sup></b>	44.1	44.4	44.4	46.4	50.3	53.4	56.0	52.0	56.6	57.2	20.0
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	14.4	16.4	14.5	14.9	14.0	14.4	12.3	12.7	11.9	11.8	12.1
<b>Birth weight</b>											
<2,500 grams	11.6	12.6	12.7	12.8	11.7	12.8	11.4	12.5	11.7	11.1	11.9
<1,500 grams	2.5	2.5	2.3	2.6	2.6	2.8	2.6	2.5	2.3	2.0	2.5
<b>Child's sex</b>											
Male	51.3	50.5	50.8	51.8	52.4	52.0	50.8	50.5	50.5	51.8	51.9
Female	48.7	49.5	49.2	48.2	47.6	48.0	49.2	49.5	49.5	48.2	48.1
<b>Plurality</b>											
Multiple births	3.4	3.1	3.8	3.6	4.1	4.2	3.3	3.6	4.1	3.7	4.7
<b>Caesarean delivery</b>	25.8	27.4	29.1	30.3	30.5	30.9	30.7	31.1	31.9	31.4	33.0
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.3	99.5	99.3	99.6	99.4	99.6	99.5	99.3	99.6	99.3	99.5
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	3.5	3.0	2.6	2.4	3.4	3.2	3.4	2.7	3.5	3.9	8.8
<b>Previous live births</b>											
1 or more	63.5	62.3	61.4	63.2	62.7	62.8	62.8	63.0	63.8	64.6	66.9

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

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery.

<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, 2004-2014  
(BLACK OR AFRICAN AMERICAN MOTHERS)**

<b>Characteristic</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
<b>Number of LBW births</b>	373	435	489	532	503	559	492	546	551	523	536
<b>Age of mother</b>											
≤19 years	18.0	16.8	17.0	15.8	16.7	13.8	17.5	13.7	10.2	12.8	9.0
≥30 years	26.8	26.7	29.2	28.2	31.8	30.6	27.6	33.5	32.3	33.8	35.8
<b>Marital status</b>											
Unmarried	68.4	65.7	66.1	66.4	65.2	69.8	72.2	67.9	69.0	72.8	67.0
<b>Mother's education</b>											
<9 years	2.1	6.2	4.3	5.5	4.4	3.2	4.3	2.9	2.9	3.1	2.4
<b>Prenatal care began</b>											
1st Trimester	72.1	75.6	75.9	77.4	77.7	79.4	82.5	80.0	78.8	77.8	59.1
3rd Trimester	3.5	2.3	1.6	3.4	3.4	2.5	1.6	3.1	3.4	3.3	4.7
No Care	6.7	4.4	3.5	3.6	4.4	4.1	2.4	2.4	2.4	3.4	6.2
<b>Prenatal visits</b>											
1-4	9.4	9.0	9.4	9.0	6.8	7.3	9.3	9.5	10.3	8.6	11.2
≥5	82.3	85.5	86.7	87.4	88.5	88.0	87.8	86.3	86.0	87.2	81.2
≥9	59.5	57.7	60.9	60.0	62.0	64.0	60.4	64.1	64.4	66.7	55.2
≥13	24.1	23.4	21.3	22.9	21.3	23.8	26.6	29.3	27.6	25.2	20.1
<b>Medical risks</b>											
<b>Complications<sup>b</sup></b>	61.7	64.1	63.0	67.7	68.4	72.8	74.0	68.7	68.4	70.0	34.9
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	71.6	74.3	70.6	70.1	71.6	72.1	68.9	65.6	65.7	66.9	68.3
<b>Birth weight</b>											
<1,500 grams	21.7	20.0	18.2	20.3	22.1	22.2	23.0	20.0	20.0	18.0	21.5
<1,000 grams	10.5	11.0	9.8	10.2	13.1	10.9	12.6	10.8	10.3	10.3	12.9
<b>Child's sex</b>											
Male	47.5	47.1	45.2	47.9	49.7	49.7	42.3	46.0	45.7	47.2	45.9
Female	52.5	52.9	54.6	52.1	50.3	50.3	57.7	54.0	54.3	52.8	54.1
<b>Plurality</b>											
Multiple births	20.1	14.5	18.2	18.6	19.1	22.0	19.7	17.8	21.2	21.4	22.2
<b>Caesarean delivery</b>	36.2	39.3	37.4	43.0	44.9	45.6	43.9	43.4	45.6	42.8	45.9
<b>Place of delivery</b>											
Hospital <sup>d</sup>	98.7	100.0	99.6	100.0	99.8	99.6	99.4	99.8	100.0	99.0	99.8
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	1.6	1.1	1.0	1.1	2.0	1.3	2.0	2.6	0.9	1.9	8.6
<b>Previous live births</b>											
1 or more	63.5	59.8	62.8	64.5	62.8	61.4	59.3	62.5	65.2	61.8	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.

<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, 2004-2014**  
**(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)**

Characteristic	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Number of births</b>	6,120	6,293	6,364	6,408	6,362	6,170	5,815	5,830	5,569	5,476	5,145
<b>Age of mother</b>											
≤19 years	18.7	19.1	19.1	20.1	18.6	19.0	17.0	16.9	16.0	14.2	11.7
≥30 years	24.9	25.4	23.6	24.0	24.0	23.8	24.1	25.0	25.2	26.6	26.7
<b>Marital status</b>											
Unmarried	73.1	72.9	74.8	75.9	75.8	76.9	77.7	77.1	78.5	79.2	78.9
<b>Mother's education</b>											
<9 years	3.9	3.5	3.5	3.0	3.2	2.8	2.8	2.5	2.5	2.4	2.2
<b>Prenatal care began</b>											
1st Trimester	69.0	67.9	65.9	65.9	65.1	66.0	69.4	68.6	68.2	68.7	58.4
3rd Trimester	5.6	6.6	7.0	6.6	7.8	7.4	6.2	6.1	7.0	6.1	7.5
No Care	3.0	3.0	3.5	3.2	3.1	2.1	2.3	2.5	2.0	2.4	2.9
<b>Prenatal visits</b>											
1-4	9.0	9.6	9.7	8.8	9.3	8.6	8.8	9.0	9.1	9.5	10.5
≥5	87.0	87.3	86.5	87.7	87.4	88.9	88.5	87.8	88.4	87.7	85.0
≥9	62.5	63.3	60.5	61.2	59.9	61.5	64.0	62.8	64.0	63.7	59.3
≥13	20.6	19.5	18.3	19.4	18.7	17.9	18.8	19.7	20.7	21.3	18.2
<b>Medical risks/ Complications<sup>b</sup></b>	55.7	55.1	56.5	57.2	54.8	54.3	55.3	53.8	60.4	61.7	31.2
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	10.9	10.6	11.7	10.4	9.8	9.6	10.6	9.0	9.7	9.7	8.2
<b>Birth weight</b>											
<2,500 grams	7.2	7.3	7.4	6.6	6.7	6.4	7.0	6.9	6.7	7.2	6.1
<1,500 grams	0.9	1.1	1.1	1.0	1.1	0.9	1.2	1.3	1.1	1.0	0.9
<b>Child's sex</b>											
Male	51.2	50.9	50.0	50.2	50.1	50.4	50.4	50.7	50.5	51.6	49.7
Female	48.8	49.1	50.0	49.8	49.9	49.6	49.6	49.3	49.5	48.4	50.3
<b>Plurality</b>											
Multiple births	1.7	1.9	1.8	1.4	1.5	1.6	1.8	1.5	1.6	1.8	1.3
<b>Caesarean delivery</b>	19.4	20.6	22.4	22.9	23.1	23.2	22.9	23.1	23.8	24.0	22.7
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.6	99.5	99.6	99.7	99.7	99.7	99.6	99.6	99.7	99.7	99.7
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	32.3	31.6	28.8	29.3	28.0	27.6	28.6	27.9	27.8	27.6	10.6
<b>Previous live births</b>											
1 or more	67.2	67.5	68.1	66.5	66.9	66.6	67.3	66.5	67.6	68.5	70.0

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

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery.

<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, 2004-2014**  
**(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)**

Characteristic	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Number of LBW births</b>	441	460	473	426	428	396	406	403	372	393	315
<b>Age of mother</b>											
≤19 years	18.6	19.6	19.2	22.8	16.8	18.2	15.3	18.9	18.0	10.2	10.8
≤30 years	28.3	29.8	28.5	28.4	26.6	28.8	29.6	26.8	33.1	29.5	30.8
<b>Marital status</b>											
Unmarried	74.6	73.3	76.5	75.8	80.1	79.3	75.4	81.1	80.9	82.2	78.4
<b>Mother's education</b>											
<9 years	4.5	3.9	4.2	2.1	4.4	2.5	3.0	2.0	3.2	5.1	2.9
<b>Prenatal care began</b>											
1st Trimester	67.1	67.0	63.0	67.4	66.8	65.2	69.7	70.0	69.1	66.9	46.7
3rd Trimester	3.2	4.8	7.0	5.4	6.8	5.8	4.2	4.0	4.3	8.4	5.1
No Care	5.9	8.5	9.5	8.5	7.5	4.3	6.7	6.7	5.9	4.3	8.6
<b>Prenatal visits</b>											
1-4	13.8	13.0	15.0	11.5	16.4	12.1	13.5	11.4	15.1	17.6	15.6
≥5	78.9	77.4	74.8	79.6	75.7	81.8	78.8	79.7	78.2	76.8	72.7
≥9	50.8	50.2	44.4	46.2	44.6	52.0	47.8	47.4	51.6	50.6	40.6
≥13	16.3	15.4	11.4	15.7	16.6	16.9	15.5	13.9	16.4	15.3	10.2
<b>Medical risks/ Complications<sup>b</sup></b>	71.7	72.8	74.8	69.7	66.1	69.4	74.4	65.5	70.2	71.2	43.5
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	68.5	70.2	74.2	71.8	71.7	69.7	74.9	69.0	79.0	70.7	65.1
<b>Birth weight</b>											
<1,500 grams	12.7	15.2	15.4	15.3	16.8	14.4	16.7	18.4	16.7	13.7	14.6
<1,000 grams	5.2	6.5	5.5	7.5	7.9	8.1	7.4	9.2	8.9	4.6	7.9
<b>Child's sex</b>											
Male	53.7	51.3	52.0	46.0	45.6	48.2	54.9	46.4	49.2	51.4	44.4
Female	46.3	48.7	48.0	54.0	54.4	51.8	45.1	53.6	50.8	48.6	55.6
<b>Plurality</b>											
Multiple births	13.2	11.7	13.5	11.3	13.3	13.1	15.5	11.7	15.6	12.7	9.8
<b>Caesarean delivery</b>	36.5	36.5	39.3	40.1	39.3	39.4	44.6	34.5	47.3	44.3	41.9
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.8	98.9	99.8	99.8	99.8	99.5	99.8	99.5	99.7	100.0	100.0
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	16.1	13.3	11.8	14.3	10.7	11.1	11.1	10.7	8.9	11.5	10.2
<b>Previous live births</b>											
1 or more	62.4	66.5	68.1	59.9	66.4	64.1	67.2	64.3	69.6	68.7	69.8

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

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery.

<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, 2004-2014**  
**(ASIAN OR PACIFIC ISLANDER MOTHERS)**

Characteristic	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Number of births</b>	2,614	2,805	3,136	3,412	3,425	3,396	3,293	3,505	3,625	3,466	3,169
<b>Age of mother</b>											
≤19 years	3.5	3.4	2.9	3.0	3.3	2.6	3.1	3.2	2.2	2.3	1.8
≥30 years	52.8	52.7	53.7	53.9	55.9	55.6	55.9	57.4	57.3	59.2	60.4
<b>Marital status</b>											
Unmarried	15.8	17.0	16.2	17.6	17.4	15.8	17.4	17.3	17.3	16.0	15.2
<b>Mother's education</b>											
<9 years	2.4	1.8	2.4	1.6	2.3	2.2	3.3	3.1	3.1	2.7	3.0
<b>Prenatal care began</b>											
1st Trimester	84.7	86.3	86.1	86.5	86.4	88.1	88.1	86.5	87.1	86.4	70.5
3rd Trimester	3.1	1.9	2.1	2.1	3.1	1.9	2.3	2.3	2.0	2.9	4.5
No Care	1.5	1.0	1.2	1.5	1.3	1.3	1.2	1.0	0.7	0.7	1.4
<b>Prenatal visits</b>											
1-4	2.9	2.5	2.0	1.8	2.4	2.1	1.9	2.3	2.4	2.6	2.6
≥5	94.9	96.4	96.5	96.6	96.2	96.4	96.7	96.2	96.8	96.6	94.5
≥9	82.3	84.1	82.7	83.9	83.2	85.6	86.7	84.2	86.2	85.6	82.3
≥13	24.6	25.8	30.3	35.3	33.5	35.6	36.0	37.9	37.2	39.2	33.7
<b>Medical risks/ Complications<sup>b</sup></b>	47.1	45.0	43.5	45.4	46.4	48.1	51.5	47.4	52.9	57.4	19.7
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	11.0	10.2	10.4	9.6	10.0	10.0	9.9	9.0	8.4	8.9	8.0
<b>Birth weight</b>											
<2,500 grams	8.0	8.0	8.5	8.0	9.1	8.8	8.5	8.3	7.2	7.9	8.1
<1,500 grams	1.1	1.2	1.1	1.0	1.5	1.5	1.4	1.1	0.8	1.1	1.2
<b>Child's sex</b>											
Male	52.5	50.7	52.2	53.2	51.3	51.7	50.7	52.4	52.1	51.4	51.5
Female	47.5	49.3	47.8	46.8	48.7	48.3	49.3	47.6	47.9	48.6	48.5
<b>Plurality</b>											
Multiple births	2.4	2.0	2.7	2.3	3.6	2.9	2.5	3.3	2.5	3.2	3.2
<b>Caesarean delivery</b>	26.5	28.1	30.5	30.0	32.0	32.6	32.8	33.0	32.1	33.2	32.4
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.3	99.5	99.4	99.5	99.4	99.4	99.6	99.3	99.2	99.1	99.3
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	2.8	2.3	2.1	1.7	2.7	3.0	2.8	3.1	4.0	3.3	10.0
<b>Previous live births</b>											
1 or more	53.8	54.4	53.3	54.5	52.9	54.8	55.5	54.6	55.5	56.2	53.4

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

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery.

<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, 2004-2014**  
**(ASIAN OR PACIFIC ISLANDER MOTHERS)**

<b>Characteristic</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
<b>Number of LBW births</b>	210	223	268	272	311	299	280	292	262	275	256
<b>Age of mother</b>											
≤19 years	6.2	3.6	1.1	2.2	3.5	3.3	5.4	5.1	5.0	1.5	1.2
≤30 years	51.9	50.2	53.7	55.5	59.5	54.8	52.1	58.6	64.9	66.2	64.1
<b>Marital status</b>											
Unmarried	20.0	22.4	18.7	16.9	21.5	20.4	18.9	18.2	18.3	12.4	14.1
<b>Mother's education</b>											
<9 years	1.9	1.3	3.0	1.1	2.6	1.7	3.2	4.1	3.8	3.6	4.3
<b>Prenatal care began</b>											
1st Trimester	87.6	83.9	87.7	83.8	82.6	87.0	84.3	83.9	87.8	86.9	70.3
3rd Trimester	2.4	3.6	1.5	1.5	3.5	3.0	2.9	2.1	0.4	3.6	4.7
No Care	1.9	2.7	3.0	3.7	4.2	2.0	1.4	2.7	0.8	0.7	3.5
<b>Prenatal visits</b>											
1-4	6.7	7.2	3.7	4.0	7.7	7.4	6.8	4.8	2.3	6.2	4.7
≥5	90.0	89.7	92.9	92.3	88.1	90.0	91.4	92.5	96.9	93.1	88.7
≥9	67.1	67.3	68.7	67.6	69.8	72.6	70.7	72.9	78.6	73.5	66.8
≥13	19.0	22.4	22.8	29.4	34.1	34.4	27.1	30.8	32.8	31.6	25.4
<b>Medical risks/ Complications<sup>b</sup></b>	59.5	67.7	67.9	66.5	61.1	70.2	74.3	68.8	72.5	73.8	32.4
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	60.0	65.9	67.2	68.0	60.5	66.2	65.4	64.7	63.0	61.1	60.2
<b>Birth weight</b>											
<1,500 grams	13.8	15.7	13.4	12.9	16.1	17.4	16.4	12.7	11.5	13.5	15.2
<1,000 grams	9.0	5.8	5.2	4.8	9.3	8.7	7.9	6.2	5.3	6.2	6.6
<b>Child's sex</b>											
Male	45.7	47.1	49.3	47.4	51.8	50.2	45.0	46.9	52.7	46.5	49.2
Female	54.3	52.9	50.7	52.6	48.2	49.8	55.0	53.1	47.3	53.5	50.8
<b>Plurality</b>											
Multiple births	21.4	19.7	19.0	21.7	26.7	22.4	18.9	25.7	20.2	23.6	24.2
<b>Caesarean delivery</b>	38.1	46.6	44.4	40.4	49.8	51.5	45.4	51.4	44.3	53.1	47.7
<b>Place of delivery</b>											
Hospital <sup>d</sup>	100.0	100.0	100.0	100.0	99.7	100.0	100.0	99.7	100.0	100.0	100.0
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	1.4	0.4	1.9	1.1	2.6	1.7	1.1	0.3	2.7	2.2	12.1
<b>Previous live births</b>											
1 or more	51.4	55.6	50.0	47.1	51.8	48.8	49.6	55.5	53.1	56.4	46.9

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

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery.

<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, 2004-2014**

Weight in grams	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Under 1000, total</b>	531	579	559	589	538	523	439	496	480	433	509
<b>Single</b>	434	452	413	450	419	431	346	379	383	332	384
<b>Plural</b>	97	127	146	139	119	92	93	117	97	101	125
<b>1,000-1,499, total</b>	569	540	670	634	618	577	505	505	506	494	509
<b>Single</b>	426	404	469	452	431	420	386	374	387	341	379
<b>Plural</b>	143	136	201	182	187	157	119	131	119	153	130
<b>1,500-1,999, total</b>	1,309	1,254	1,425	1,362	1,360	1,211	1,194	1,131	1,197	1,152	1,156
<b>Single</b>	882	909	979	935	944	835	823	794	814	830	803
<b>Plural</b>	427	345	446	427	416	376	371	337	383	322	353
<b>2,000-2,499, total</b>	4,295	4,267	4,612	4,700	4,510	4,262	4,017	3,817	3,763	3,770	3,895
<b>Single</b>	3,370	3,397	3,771	3,762	3,598	3,432	3,178	3,043	2,994	2,920	3,063
<b>Plural</b>	925	870	841	938	912	830	839	774	769	850	832
<b>2,500-3,999, total</b>	79,390	81,676	86,943	87,739	84,904	79,423	74,680	72,777	73,096	72,494	73,627
<b>Single</b>	78,324	80,530	85,755	86,631	83,674	78,297	73,596	71,741	72,085	71,377	72,449
<b>Plural</b>	1,066	1,146	1,188	1,108	1,230	1,126	1,084	1,036	1,011	1,117	1,178
<b>4,000 and over, total</b>	7,270†	7,460†	7,820†	7,640†	7,270†	6,601	6,200†	6,450†	6,680†	6,540†	6,900†
<b>Single</b>	7,266	7,462	7,817	7,634	7,267	6,601	6,194	6,450	6,674	6,537	6,900
<b>Plural</b>	*	*	*	*	*	0	*	*	*	*	*
<b>All weights, total<sup>a</sup></b>	93,396	95,798	102,042	102,687	99,215	92,616	87,053	85,190	85,725	84,963	86,648
<b>Single</b>	90,732	93,173	99,216	99,889	96,347	90,034	84,535	82,793	83,342	82,415	84,014
<b>Plural</b>	2,660†	2,630†	2,830†	2,800†	2,870†	2,582	2,510†	2,400†	2,380†	2,550†	2,630†

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, 2004-2014**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>2004</b>	7,570	7,191	7,742	7,196	7,231	7,305	8,005	8,174	8,585	8,346	8,014	8,037	93,396
<b>Percent</b>	8.1	7.7	8.3	7.7	7.7	7.8	8.6	8.8	9.2	8.9	8.6	8.6	100.0
<b>2005</b>	7,700	7,146	7,946	7,515	7,583	7,802	8,286	8,746	8,712	8,058	7,926	8,378	95,798
<b>Percent</b>	8.0	7.5	8.3	7.8	7.9	8.1	8.6	9.1	9.1	8.4	8.3	8.7	100.0
<b>2006</b>	8,089	7,614	8,371	7,724	8,088	8,311	8,897	9,265	9,166	9,140	8,618	8,759	102,042
<b>Percent</b>	7.9	7.5	8.2	7.6	7.9	8.1	8.7	9.1	9.0	9.0	8.4	8.6	100.0
<b>2007</b>	8,659	7,721	8,324	7,885	8,207	8,341	9,011	9,396	9,077	9,101	8,388	8,577	102,687
<b>Percent</b>	8.4	7.5	8.1	7.7	8.0	8.1	8.8	9.2	8.8	8.9	8.2	8.4	100.0
<b>2008</b>	8,656	8,158	8,094	7,694	8,124	7,677	8,783	8,779	8,760	8,411	7,740	8,339	99,215
<b>Percent</b>	8.7	8.2	8.2	7.8	8.2	7.7	8.9	8.8	8.8	8.5	7.8	8.4	100.0
<b>2009</b>	7,784	7,333	8,069	7,371	7,464	7,377	8,060	8,194	8,097	7,872	7,267	7,728	92,616
<b>Percent</b>	8.4	7.9	8.7	8.0	8.1	8.0	8.7	8.8	8.7	8.5	7.8	8.3	100.0
<b>2010</b>	7,342	6,812	7,521	6,886	6,989	6,982	7,153	7,637	7,977	7,331	7,038	7,378	87,053 <sup>a</sup>
<b>Percent</b>	8.4	7.8	8.6	7.9	8.0	8.0	8.2	8.8	9.2	8.4	8.1	8.5	100.0
<b>2011</b>	7,127	6,500	7,254	6,498	6,678	7,086	7,222	7,688	7,750	7,361	6,987	7,039	85,190
<b>Percent</b>	8.4	7.6	8.5	7.6	7.8	8.3	8.5	9.0	9.1	8.6	8.2	8.3	100.0
<b>2012</b>	7,006	6,732	7,100	6,603	6,777	6,725	7,368	7,772	7,689	7,629	7,101	7,223	85,725
<b>Percent</b>	8.2	7.9	8.3	7.7	7.9	7.8	8.6	9.1	9.0	8.9	8.3	8.4	100.0
<b>2013</b>	7,090	6,414	7,083	6,694	6,681	6,685	7,337	7,436	7,538	7,515	7,130	7,360	84,963
<b>Percent</b>	8.3	7.5	8.3	7.9	7.9	7.9	8.6	8.8	8.9	8.8	8.4	8.7	100.0
<b>2014</b>	7,313	6,593	7,068	6,672	6,893	6,856	7,731	7,718	7,651	7,554	6,994	7,605	86,648
<b>Percent</b>	8.4	7.6	8.2	7.7	8.0	7.9	8.9	8.9	8.8	8.7	8.1	8.8	100.0

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

**TABLE 1B-18  
BIRTHS BY DAY AND MONTH OF OCCURRENCE, ARIZONA RESIDENTS, 2014**

TOTAL	Month of birth												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
<b>TOTAL</b>	86,648	7,313	6,593	7,068	6,672	6,893	6,856	7,731	7,718	7,651	7,554	6,994	7,605
<b>1</b>	2,750	187	216	199	230	239	172	267	280	209	269	222	260
<b>2</b>	2,841	237	196	195	224	276	207	276	208	267	288	191	276
<b>3</b>	2,907	262	218	234	268	185	244	283	172	266	261	238	276
<b>4</b>	2,921	211	246	269	255	160	263	220	242	305	208	255	287
<b>5</b>	2,839	175	269	268	202	246	250	189	258	294	178	266	244
<b>6</b>	2,778	240	226	251	175	251	243	200	253	231	271	239	198
<b>7</b>	2,896	270	255	264	233	249	213	255	271	184	256	250	196
<b>8</b>	2,776	254	205	196	226	229	179	242	244	270	258	223	250
<b>9</b>	2,802	246	184	175	240	231	236	270	236	277	248	178	281
<b>10</b>	2,947	250	275	219	229	225	244	265	185	285	263	245	262
<b>11</b>	2,877	196	240	239	236	170	242	274	255	263	203	281	278
<b>12</b>	2,820	181	284	252	183	205	225	193	275	276	197	296	253
<b>13</b>	2,778	236	253	238	164	247	263	193	272	213	237	252	210
<b>14</b>	2,874	245	269	245	222	260	190	262	275	191	272	256	187
<b>15</b>	2,882	255	195	204	256	219	184	278	278	272	261	221	259
<b>16</b>	2,813	246	187	151	235	244	227	261	222	304	286	171	279
<b>17</b>	3,064	276	273	234	254	188	258	287	208	288	268	261	269
<b>18</b>	2,913	201	223	253	231	187	269	269	268	277	187	266	282
<b>19</b>	2,802	181	260	217	161	249	259	217	238	289	174	242	315
<b>20</b>	2,854	257	274	248	138	272	242	179	302	239	228	278	197
<b>21</b>	2,906	269	268	265	244	234	193	275	283	166	262	266	181
<b>22</b>	2,864	262	177	190	283	253	175	280	256	245	283	203	257
<b>23</b>	2,748	263	170	158	245	239	242	253	207	273	252	171	275
<b>24</b>	2,888	252	221	229	258	194	245	263	199	268	252	284	223
<b>25</b>	2,831	190	258	263	224	150	252	265	270	278	209	298	174
<b>26</b>	2,692	166	265	268	184	157	240	207	282	267	210	234	212
<b>27</b>	2,764	254	255	265	176	236	248	229	278	224	249	159	191
<b>28</b>	2,841	267	231	263	228	234	213	263	273	203	262	219	185
<b>29</b>	2,672	267		213	240	241	202	267	301	262	248	160	271
<b>30</b>	2,658	264		176	228	245	236	283	238	265	266	169	288
<b>31</b>	1,650	253		227		178		266	189		248		289

**TABLE 1B-19  
LIVE BIRTHS BY MOTHER'S AGE AND FATHER'S AGE, ARIZONA, 2014**

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	10†
15-17	14	323	150	37	6	*	*	*	0	0	530†
18-19	*	466	1,065	486	29	*	*	0	0	0	2,050†
20-24	0	253	1,904	8,628	1,543	284	56	11	*	0	12,680†
25-29	0	31	347	6,016	10,739	2,148	413	57	*	0	19,760†
30-34	0	9	74	1,628	7,355	9,805	1,748	175	0	0	20,794
35-39	0	*	29	460	1,885	5,374	4,165	393	17	0	12,330†
40-44	0	0	6	138	544	1,439	2,080	746	30	*	4,984
45-49	0	*	*	41	161	422	602	363	49	*	1,640†
50-54	0	*	*	15	65	129	156	112	29	0	510†
55+	0	0	*	14	25	57	71	48	17	0	230†
Unknown	29	681	1,228	3,864	2,700	1,571	809	219	28	*	11,132
<b>TOTAL</b>	50†	1,770†	4,810†	21,330†	25,052	21,240†	10,100†	2,130†	180†	10†	86,648

**TABLE 1B-20  
LIVE BIRTHS BY MOTHER'S RACE/ETHNICITY AND FATHER'S RACE/ETHNICITY, ARIZONA, 2014**

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	33,370	9,946	1,679	1,409	874	47,278
Hispanic or Latino	4,731	22,451	220	552	206	28,160
Black or African American	1,216	825	2,597	106	84	4,828
American Indian or Alaska Native	329	300	15	3,048	13	3,705
Asian or Pacific Islander	451	193	11	30	1,992	2,677
<b>TOTAL</b>	40,097	33,715	4,522	5,145	3,169	86,648

**TABLE 1B-21  
LIVE BIRTHS BY MOTHER'S AND FATHER'S EDUCATION, ARIZONA, 2014**

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	1,236	919	716	256	92	56	19	*	3,299
Some High School	604	4,568	3,131	1,565	374	227	90	27	10,586
High School/ GED	464	3,138	9,438	4,644	1,419	1,418	425	38	20,984
Some College	102	976	3,050	7,323	1,842	2,423	742	26	16,484
Associate Degree	23	225	880	1,539	1,210	1,241	455	8	5,581
Bachelor's Degree	44	164	853	1,814	1,117	5,302	2,123	*	11,419
Postgraduate Education	9	30	237	579	402	2,483	2,496	6	6,242
Unknown	705	3,695	3,748	2,435	516	366	142	446	12,053
<b>TOTAL</b>	3,187	13,715	22,053	20,155	6,972	13,516	6,492	558	86,648

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; 558 cases were missing mother's education, 12,053 cases were missing father's education.



**TABLE 1B-22  
TOTAL BIRTHS AND RATIOS OF BIRTH BY MOTHER'S MARITAL STATUS,  
AGE GROUP, AND RACE/ETHNICITY, ARIZONA, 2014**

			TOTAL	Mother's age group									Un-known
				<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	
All racial/ ethnic groups	Married	Count	46,412	0	85	615	6,814	14,756	15,277	7,291	1,469	104	*
		Percent	53.6%	0.0%	4.8%	12.8%	31.9%	58.9%	71.9%	72.2%	69.1%	59.1%	**
	Unmarried	Count	38,767	46	1,683	4,173	14,241	9,870	5,572	2,580	572	30	0
		Percent	44.7%	100.0%	95.1%	86.8%	66.8%	39.4%	26.2%	25.5%	26.9%	17.0%	0.0%
	Other <sup>a</sup>	Count	1,470†	0	*	19	274	426	386	232	84	42	*
		Percent	1.7%	0.0%	**	0.4%	1.3%	1.7%	1.8%	2.3%	4.0%	23.9%	**
	TOTAL	Count	86,648	46	1,770	4,807	21,329	25,052	21,235	10,103	2,125	176	*
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**
White non- Hispanic	Married	Count	26,823	0	21	203	3,328	8,694	9,501	4,248	752	76	0
		Percent	66.9%	0.0%	6.1%	14.4%	41.4%	71.0%	81.5%	80.7%	73.8%	58.0%	0.0%
	Unmarried	Count	12,489	8	322	1,194	4,576	3,319	1,952	887	216	15	0
		Percent	31.1%	100.0%	93.6%	85.0%	57.0%	27.1%	16.8%	16.9%	21.2%	11.5%	0.0%
	Other	Count	790†	0	*	8	130	226	199	127	51	40	*
		Percent	2.0%	0.0%	**	0.6%	1.6%	1.8%	1.7%	2.4%	5.0%	30.5%	**
	TOTAL	Count	40,097	8	344	1,405	8,034	12,239	11,652	5,262	1,019	131	*
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**
Hispanic or Latino	Married	Count	14,272	0	59	362	2,905	4,459	3,934	2,048	486	19	0
		Percent	42.3%	0.0%	5.3%	13.5%	29.0%	48.7%	59.9%	60.8%	62.9%	61.3%	0.0%
	Unmarried	Count	18,914	23	1,055	2,303	6,977	4,541	2,509	1,236	260	10	0
		Percent	56.1%	100.0%	94.6%	86.1%	69.7%	49.6%	38.2%	36.7%	33.6%	32.3%	0.0%
	Other	Count	530†	0	*	10	122	151	129	86	27	*	*
		Percent	1.6%	0.0%	**	0.4%	1.2%	1.7%	2.0%	2.6%	3.5%	**	**
	TOTAL	Count	33,715	23	1,115	2,675	10,004	9,151	6,572	3,370	773	31	*
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**
Black or African American	Married	Count	1,630†	0	*	24	237	504	537	251	69	6	*
		Percent	36.1%	0.0%	**	8.4%	18.4%	38.9%	54.1%	57.7%	66.3%	66.7%	**
	Unmarried	Count	2,830†	*	100	263	1,041	775	428	177	34	*	0
		Percent	62.5%	**	98.0%	91.6%	80.7%	59.8%	43.1%	40.7%	32.7%	**	0.0%
	Other	Count	70†	0	0	0	12	17	28	7	*	0	0
		Percent	1.4%	0.0%	0.0%	0.0%	0.9%	1.3%	2.8%	1.6%	**	0.0%	0.0%
	TOTAL	Count	4,520†	*	102	287	1,290	1,296	993	435	104	9	*
		Percent	100.0%	**	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**
American Indian or Alaska Native	Married	Count	1,020†	0	*	13	179	344	268	175	43	*	0
		Percent	19.9%	0.0%	**	3.3%	10.6%	23.3%	31.0%	41.9%	48.3%	**	0.0%
	Unmarried	Count	4,060†	9	195	383	1,508	1,111	572	235	42	*	0
		Percent	78.9%	100.0%	99.5%	96.5%	89.1%	75.3%	66.1%	56.2%	47.2%	**	0.0%
	Other	Count	60†	0	0	*	6	20	25	8	*	0	0
		Percent	1.2%	0.0%	0.0%	**	0.4%	1.4%	2.9%	1.9%	**	0.0%	0.0%
	TOTAL	Count	5,150†	9	196	397	1,693	1,475	865	418	89	*	0
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**	0.0%
Asian or Pacific Islander	Married	Count	2,660†	0	*	13	165	755	1,037	569	119	*	0
		Percent	84.0%	0.0%	**	30.2%	53.6%	84.7%	89.9%	92.1%	85.0%	**	0.0%
	Unmarried	Count	480†	*	11	30	139	124	111	45	20	0	0
		Percent	15.2%	**	84.6%	69.8%	45.1%	13.9%	9.6%	7.3%	14.3%	0.0%	0.0%
	Other	Count	30†	0	0	0	*	12	*	*	*	0	0
		Percent	0.8%	0.0%	0.0%	0.0%	**	1.3%	**	**	**	0.0%	0.0%
	TOTAL	Count	3,170†	*	13	43	308	891	1,153	618	140	*	0
		Percent	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> May include the following: "Refused", "Yes, divorced" and "Unknown".

**TABLE 1B-23  
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND NUMBER OF  
PREVIOUS LIVE BIRTHS, ARIZONA, 2014**

	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>	86,648	46	1,770†	4,810†	21,329	25,052	21,235	10,103	2,125	176	10†
	<b>None</b>	31,149	46	1624	3790	10201	7893	5258	1915	379	42	*
	<b>1</b>	25,933	0	139	872	7190	8086	6405	2716	488	35	*
	<b>2</b>	15,620†	0	*	129	2823	5301	4684	2232	419	25	*
	<b>3</b>	7,905	0	0	14	854	2429	2733	1522	325	28	0
	<b>4 or more</b>	6,000†	0	*	*	256	1332	2145	1714	510	44	0
	<b>Unknown</b>	40†	0	*	*	*	11	10	*	*	*	*
<b>White non- Hispanic</b>	<b>TOTAL</b>	40,097	8	340†	1,410†	8,034	12,239	11,652	5,262	1,019	131	0†
	<b>None</b>	15,661	8	323	1188	4383	4758	3478	1252	238	33	0
	<b>1</b>	12,734	0	19	193	2577	4096	3862	1657	298	30	*
	<b>2</b>	6,589	0	0	21	825	2139	2280	1112	193	19	0
	<b>3</b>	3,030†	0	0	*	200	869	1224	612	103	19	0
	<b>4 or more</b>	2,060†	0	*	0	47	369	801	625	184	28	0
	<b>Unknown</b>	30†	0	*	0	*	8	7	*	*	*	*
<b>Hispanic or Latino</b>	<b>TOTAL</b>	33,715	23	1,120†	2,675	10,004	9,151	6,572	3,370	773	30†	0†
	<b>None</b>	10,980†	23	1013	2050	4366	2046	1023	370	81	*	0
	<b>1</b>	9,620†	0	98	531	3583	2983	1657	648	113	*	0
	<b>2</b>	6,780†	0	*	85	1474	2363	1828	856	164	*	*
	<b>3</b>	3,649	0	0	8	440	1130	1175	722	168	6	0
	<b>4 or more</b>	2,688	0	0	0	140	629	886	774	247	12	0
	<b>Unknown</b>	10†	0	0	*	*	0	*	0	0	0	0
<b>Black or African American</b>	<b>TOTAL</b>	4,520†	10†	102	290†	1,290	1,296	993	435	104	10†	0†
	<b>None</b>	1,490†	*	93	222	580	329	176	69	16	*	*
	<b>1</b>	1,210†	0	9	54	408	357	260	96	26	*	0
	<b>2</b>	870†	0	0	9	195	324	241	81	16	*	0
	<b>3</b>	470†	0	0	*	80	167	128	72	22	*	0
	<b>4 or more</b>	480†	0	0	0	27	116	188	117	24	*	0
	<b>Unknown</b>	0†	0	0	0	0	*	0	0	0	0	0
<b>American Indian or Alaska Native</b>	<b>TOTAL</b>	5,150†	9	200†	400†	1,693	1,475	865	418	89	0†	0
	<b>None</b>	1,543	9	182	294	667	240	109	34	8	0	0
	<b>1</b>	1,257	0	13	87	551	402	140	55	9	0	0
	<b>2</b>	1,011	0	0	14	304	396	206	78	13	0	0
	<b>3</b>	620†	0	0	*	128	231	159	86	15	*	0
	<b>4 or more</b>	710†	0	*	*	41	206	251	165	44	*	0
	<b>Unknown</b>	0†	0	0	0	*	0	0	0	0	0	0
<b>Asian or Pacific Islander</b>	<b>TOTAL</b>	3,170†	0†	13	43	310†	891	1,153	618	140	0†	0
	<b>None</b>	1,480†	*	13	36	205	520	472	190	36	*	0
	<b>1</b>	1,114	0	0	7	71	248	486	260	42	0	0
	<b>2</b>	371	0	0	0	25	79	129	105	33	0	0
	<b>3</b>	132	0	0	0	6	32	47	30	17	0	0
	<b>4 or more</b>	80†	0	0	0	*	12	19	33	11	0	0
	<b>Unknown</b>	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 2004 TO 2014 IN SELECTED CHARACTERISTICS OF NEWBORNS AND ARIZONA WOMEN GIVING BIRTH  
BY AREA AND RACE/ETHNICITY**

Characteristics <sup>a</sup>	Urban <sup>b</sup>		Rural		White non-Hispanic		Hispanic or Latino		Black or African American		American Indian or Alaska Native		Asian or Pacific Islander		
	2004	2014	2004	% Change	2004	% Change	2004	% Change	2004	% Change	2004	% Change	2004	% Change	
<b>Number of births</b>	79,951	74,677	13,409	-6.6	39,271	40,097	40,822	-17.4	3,216	4,522	6,120	-15.9	2,614	3,169	21.2
<b>Per 100 births:</b>															
<b>Teenage mother<sup>c</sup></b>	12.2	7.3	15.5	-40.2	7.1	4.4	17.5	-38.3	16.8	8.7	18.7	-48.1	3.5	1.8	-48.6
<b>Unwed mother</b>	41.1	43.6	46.8	6.2	40.3	31.1	53.9	-22.7	62.0	62.5	73.1	0.8	15.8	15.2	-3.9
<b>Early prenatal care<sup>d</sup></b>	77.1	66.6	71.4	-13.7	87.3	71.7	67.0	-17.8	75.8	61.4	69.0	-19.0	84.7	70.5	-16.8
<b>0-4 prenatal visits</b>	7.2	6.2	8.6	-14.5	2.8	3.7	10.9	-21.0	7.9	9.0	12.0	14.2	4.4	4.0	-9.6
<b>C-Section</b>	23.8	28.1	22.9	18.3	25.9	28.8	21.9	19.3	25.8	33.0	19.4	27.7	26.5	32.4	22.2
<b>LBW rate</b>	7.1	7.0	7.7	-1.3	7.2	6.8	6.8	-2.0	11.6	11.9	7.2	2.2	8.0	8.1	1.0
<b>Newborn intensive care</b>	5.8	7.1	5.5	22.9	6.4	6.6	5.2	29.1	7.2	9.8	4.4	36.7	5.8	7.2	24.6
<b>Preterm births (&lt; 37 weeks)</b>	11.0	9.1	10.9	-17.5	11.4	8.6	10.3	-24.8	14.4	12.1	10.9	-15.8	11.0	8.0	-26.8
<b>Births paid for by the AHCCCS<sup>e</sup></b>	50.8	51.9	53.8	2.3	29.3	35.9	73.1	-2.0	59.9	69.7	52.9	16.5	21.2	27.1	28.0

Notes: <sup>a</sup> Per 100 live 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> Less than 20 years old; <sup>d</sup> Entered care in first trimester of pregnancy; <sup>e</sup> The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.

**TABLE 1B-25 (CORRECTION)  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,  
ARIZONA, 2014**

	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>	86,648	74,677	11,955	20†	40,097	33,715	4,520†	5,150†	3,170†
<b>Mother's age group</b>									
<15	50†	33	13	0	8	23	*	9	*
15-17	1,770	1,459	310	*	344	1,115	102	196	13
18-19	4,807	3,955	852	0	1,405	2,675	287	397	43
20-24	21,329	17,777	3,547	*	8,034	10,004	1,290	1,693	308
25-29	25,052	21,551	3,493	8	12,239	9,151	1,296	1,475	891
30-34	21,235	18,836	2,398	*	11,652	6,572	993	865	1,153
35-39	10,103	9,030	1,072	*	5,262	3,370	435	418	618
40-44	2,125	1,878	247	0	1,019	773	104	89	140
45+	180†	153	23	0	131	31	9	*	*
Unknown	10†	*	0	0	*	*	*	0	0
<b>Payee for birth</b>									
AHCCCS	46,064	38,790	7,267	7	14,396	24,148	3,154	3,506	860
IHS	1,170†	605	562	0	122	70	*	969	*
Private insurance	35,643	32,100	3,539	*	23,632	8,111	1,148	577	2,175
Self-pay	3,600	3,046	549	*	1,861	1,334	203	72	130
Unknown	170†	136	38	0	86	52	13	21	*
<b>Mother's education</b>									
8th Grade or Less	3,187	2,908	278	*	291	2,538	151	113	94
Some High School	13,715	11,608	2,104	*	2,952	8,581	661	1,341	180
High School / GED	22,053	18,290	3,759	*	7,917	10,624	1,350	1,765	397
Some College	20,155	17,092	3,060	*	10,412	6,756	1,258	1,318	411
Associate Degree	6,972	5,912	1,060	0	4,081	1,984	330	343	234
Bachelor's Degree	13,516	12,358	1,154	*	9,517	2,317	500	169	1,013
Postgraduate Education	6,492	6,027	464	*	4,514	820	254	68	836
Unknown	560†	482	76	0	413	95	18	28	*
<b>Marital status</b>									
Married	46,412	40,885	5,521	6	26,823	14,272	1,631	1,024	2,662
Unmarried	38,767	32,583	6,175	9	12,489	18,914	2,826	4,057	481
Other/Unknown <sup>b</sup>	1,469	1,209	259	*	785	529	65	64	26
<b>Weight gain</b>									
Inadequate	18,895	16,281	2,608	6	7,198	8,545	1,073	1,185	894
Adequate	26,650	23,045	3,601	*	12,463	10,267	1,229	1,506	1,185
Excessive	40,311	34,677	5,630	*	20,146	14,532	2,176	2,383	1,074
Unknown	792	674	116	*	290	371	44	71	16
<b>Smoking during pregnancy</b>									
Non-smoker	81,490	70,928	10,556	6	36,400	32,858	4,193	4,920	3,119
Light smoker (less than 10 cigarettes per day)	2,746	2,139	607	0	1,806	542	230	136	32
Heavy smoker (10 or more cigarettes per day)	1,851	1,373	478	0	1,522	206	78	37	8
Unknown	561	237	314	10	369	109	21	52	10
<b>Length of gestation</b>									
<37 weeks	7,772	6,774	994	*	3,437	3,108	548	424	255
37-41 weeks	78,442	67,560	10,872	12	36,450	30,473	3,942	4,669	2,908
42+ weeks	290†	240	46	0	151	90	25	17	*
Unknown	150†	103	45	0	59	44	7	35	*

**TABLE 1B-25 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,  
ARIZONA, 2014**

	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>Weight at birth</b>												
<1,000 grams	509	449	59	*	199	199	69	25	17			
1,000-1,499	509	440	69	0	246	174	46	21	22			
1,500-2,499	5,051	4,343	707	*	2,270	1,874	421	269	217			
2,500-3,999	73,627	63,308	10,305	14	33,837	28,937	3,788	4,310	2,755			
4000+ grams	6,901	6,096	805	0	3,516	2,520	196	514	155			
Unknown	50†	41	10	0	29	11	*	6	*			
<b>Prenatal care</b>												
No care	1,835	1,602	231	*	447	1,071	126	147	44			
1st trimester	57,180	49,699	7,474	7	28,760	20,408	2,775	3,003	2,234			
2nd trimester	16,083	13,412	2,668	*	6,003	7,432	932	1,226	490			
3rd trimester	4,617	3,862	755	0	1,408	2,331	349	387	142			
Unknown	6,933	6,102	827	*	3,479	2,473	340	382	259			
<b>Prenatal visits</b>												
No visits	1,835	1,602	231	*	447	1,071	126	147	44			
1-4 visits	3,785	2,995	789	*	1,051	1,832	282	538	82			
5-8 visits	12,564	10,234	2,322	8	4,424	5,635	794	1,323	388			
9-12 visits	40,656	35,547	5,107	*	18,901	15,953	2,146	2,116	1,540			
13+ visits	26,623	23,232	3,389	*	14,667	8,839	1,116	934	1,067			
Unknown	1,185	1,067	117	*	607	385	58	87	48			
<b>Newborn intensive care</b>												
Yes	5,810	5,322	488	0	2,630	2,264	445	242	229			
No	80,838	69,355	11,467	16	37,467	31,451	4,077	4,903	2,940			
<b>Method of delivery</b>												
Vaginal	60,278	51,770	8,494	14	27,442	24,058	2,914	3,884	1,980			
C-Section	24,038	21,020	3,016	*	11,545	8,807	1,490	1,170	1,026			
Forceps	389	344	45	0	204	132	15	19	19			
Vacuum	1,937	1,537	400	0	900	718	103	72	144			
Unknown	6	6	0	0	6	0	0	0	0			
<b>Obstetric procedures<sup>c</sup></b>												
Total	37,163	31,700	5,458	5	17,373	14,631	1,765	2,129	1,265			
Induction of labor	22,350	19,085	3,264	*	10,972	8,350	1,151	1,196	681			
Augmentation of labor	18,114	15,521	2,589	*	7,790	7,729	768	1,121	706			
Cervical cerclage	171	149	22	0	81	61	13	10	6			
Tocolysis	267	164	102	*	138	79	7	43	0			
External cephalic version successful	80†	54	22	0	46	15	*	11	*			
External cephalic version failed	90†	58	29	0	40	20	*	23	*			
<b>Births with medical risk factors<sup>c</sup></b>												
Total	15,625	13,269	2,352	4	6,477	6,012	905	1,606	625			
Pre-existing diabetes	809	680	129	0	255	344	40	144	26			
Gestational diabetes	5,309	4,621	686	*	1,959	2,157	208	625	360			
Pre-existing hypertension	1,036	896	140	0	457	359	94	98	28			
Gestational hypertension	4,542	3,855	685	*	2,091	1,598	314	442	97			
Eclampsia	331	296	35	0	148	125	25	23	10			
Other preterm birth	3,042	2,534	508	0	1,420	1,131	186	228	77			
Previous preterm pregnancy outcome	890	720	170	0	482	251	49	74	34			
Gonorrhea	190†	167	22	0	60	75	30	23	*			
Syphilis	70†	56	9	0	17	32	6	9	*			
Chlamydia	2,019	1,608	411	0	525	960	133	363	38			
Hepatitis B	100†	92	7	0	28	14	16	*	38			
Hepatitis C	140†	123	21	0	80	38	7	16	*			

**TABLE 1B-25 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,  
ARIZONA, 2014**

	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	18,509	16,261	2,245	3	8,324	7,255	1,005	1,162	763		
Premature rupture of the membranes	3,430	2,931	499	0	1,670	1,137	163	331	129		
Precipitous labor	5,269	4,762	506	*	1,671	2,735	392	284	187		
Prolonged labor	1,807	1,577	229	*	889	593	89	145	91		
Breech presentation	3,325	2,880	445	0	1,769	1,099	160	180	117		
Chorioamnionitis	1,665	1,520	145	0	626	763	77	99	100		
Meconium staining of the amniotic fluid	4,696	4,245	450	*	1,951	2,027	292	256	170		
Fetal intolerance	4,917	4,345	571	*	2,546	1,668	242	244	217		
Maternal transfusion	235	173	62	0	100	72	14	42	7		
Third or fourth degree perineal laceration	491	406	85	0	245	139	19	29	59		
Ruptured uterus	40 <sup>†</sup>	35	6	0	18	17	*	*	*		
Unplanned Hysterectomy	30 <sup>†</sup>	21	*	0	10	10	*	*	*		
Admission to intensive care unit	101	81	20	0	43	29	7	14	8		
Unplanned surgery following delivery	150 <sup>†</sup>	114	38	0	70	52	7	20	*		
<b>Total</b>	<b>3,673</b>	<b>3,096</b>	<b>575</b>	<b>2</b>	<b>1,841</b>	<b>1,251</b>	<b>230</b>	<b>204</b>	<b>147</b>		
<b>Abnormal conditions of the newborn<sup>c</sup></b>											
Assisted ventilation immediately after delivery	2,410	1,973	437	0	1,215	828	161	121	85		
Assisted ventilation for more than 6 hours	1,151	1,025	126	0	589	388	81	46	47		
Surfactant replacement therapy	356	324	32	0	164	130	30	16	16		
Suspected neonatal sepsis	1,509	1,306	201	*	748	484	90	110	77		
Seizure or serious neurologic dysfunction	30 <sup>†</sup>	20	7	0	10	11	*	*	0		
Significant birth injury	243	229	14	0	117	106	8	6	6		
<b>Total</b>	<b>420</b>	<b>338</b>	<b>82</b>	<b>0</b>	<b>202</b>	<b>158</b>	<b>13</b>	<b>41</b>	<b>6</b>		
<b>Congenital anomalies of the newborn<sup>c</sup></b>											
Anencephalus	20 <sup>†</sup>	18	*	0	7	12	0	*	0		
Spina bifida / Meningocele	10 <sup>†</sup>	9	*	0	*	*	0	*	0		
Cyanotic congenital heart disease	50 <sup>†</sup>	41	*	0	26	13	*	*	*		
Congenital diaphragmatic hernia	10 <sup>†</sup>	*	*	0	*	*	0	0	0		
Omphalocele / Gastroschisis	50 <sup>†</sup>	37	8	0	17	21	*	*	*		
Limb reduction defect	20 <sup>†</sup>	15	*	0	7	9	0	*	0		
Cleft lip / palate	70 <sup>†</sup>	56	18	0	32	28	*	11	0		
Down syndrome	40 <sup>†</sup>	39	*	0	25	14	*	*	*		
Suspected chromosomal disorder	40 <sup>†</sup>	32	*	0	15	15	*	*	*		
Hypospadias	40 <sup>†</sup>	28	8	0	28	7	0	*	*		
<b>Unknown congenital anomalies</b>	<b>110<sup>†</sup></b>	<b>83</b>	<b>27</b>	<b>0</b>	<b>49</b>	<b>41</b>	<b>6</b>	<b>11</b>	<b>*</b>		

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; a Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see Technical Notes for more information; <sup>b</sup> "refused", "yes, divorced", "unknown"; <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 2004 TO 2014 IN SELECTED CHARACTERISTICS OF NEWBORNS AND ARIZONA WOMEN GIVING BIRTH  
WHICH DIFFER BY PAYEE FOR THE DELIVERY**

Characteristics <sup>a</sup>	AHCCCS <sup>b</sup>			Indian Health Service			Private Health Insurance			Self-pay		
	2004	2014	% Change	2004	2014	% Change	2004	2014	% Change	2004	2014	% Change
<b>Number of births</b>	47,823	46,064	<b>-3.7</b>	1,706	1,167	<b>-31.6</b>	39,893	35,643	<b>-10.7</b>	2,258	3,600	<b>59.4</b>
<b>Per 100 births:</b>												
<b>Teenage mother<sup>c</sup></b>	19.7	12.0	<b>-38.9</b>	19.8	12.4	<b>-37.2</b>	4.1	2.0	<b>-51.0</b>	10.5	5.6	<b>-47.1</b>
<b>Unwed mother</b>	62.8	65.2	<b>3.8</b>	73.6	76.8	<b>4.3</b>	15.9	18.8	<b>18.2</b>	36.9	29.6	<b>-19.9</b>
<b>Early prenatal care<sup>d</sup></b>	65.8	58.9	<b>-10.4</b>	61.5	54.2	<b>-11.9</b>	90.9	77.3	<b>-14.9</b>	61.7	49.2	<b>-20.3</b>
<b>0-4 prenatal visits</b>	10.9	8.7	<b>-19.9</b>	14.4	16.5	<b>14.3</b>	1.7	2.0	<b>17.5</b>	22.9	18.5	<b>-19.3</b>
<b>C-Section<sup>e</sup></b>	21.7	26.4	<b>21.6</b>	18.3	24.8	<b>35.3</b>	26.8	30.4	<b>13.6</b>	16.4	19.6	<b>19.2</b>
<b>LBW rate</b>	7.5	7.5	<b>0.0</b>	5.7	5.6	<b>-2.3</b>	6.7	6.5	<b>-2.3</b>	7.1	5.5	<b>-22.9</b>
<b>Newborn intensive care</b>	5.7	7.1	<b>24.3</b>	1.6	6.4	<b>301.7</b>	5.9	6.3	<b>6.2</b>	6.5	6.1	<b>-5.6</b>
<b>Preterm birth &lt; 37 weeks</b>	11.2	9.5	<b>-14.8</b>	8.3	9.0	<b>8.4</b>	10.8	8.4	<b>-22.1</b>	10.5	7.1	<b>-32.5</b>

Notes: <sup>a</sup> Per 100 live births; <sup>b</sup> The Arizona Health Care Cost Containment System is the State's Medicaid program; <sup>c</sup> Less than 20 years old; <sup>d</sup> Entered care in first trimester of pregnancy; <sup>e</sup> C-section includes primary and repeat.

**TABLE 1B-27 (CORRECTION)  
PAYEE FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2014**

	TOTAL	Payee for birth				
		AHCCCS <sup>a</sup>	IHS	Private Insurance	Self-pay	Unknown
<b>TOTAL</b>	86,648	46,064	1,170†	35,640†	3,600†	170†
<b>Mother's age group</b>	50†	36	*	*	*	*
<15	1,770	1,435	46	199	82	8
15-17	4,807	4,072	97	512	116	10
18-19	21,329	15,265	364	4,904	744	52
20-24	25,052	12,666	321	10,968	1,052	45
25-29	21,235	7,905	204	12,098	994	34
30-34	10,103	3,721	116	5,767	484	15
35-39	2,125	888	17	1,096	118	6
40-44	176	76	0	91	7	*
45+	10†	0	0	*	*	*
<b>Mother's race/ethnicity</b>	40,097	14,396	122	23,632	1,861	86
White non-Hispanic	33,715	24,148	70	8,111	1,334	52
Hispanic or Latino	4,520†	3,154	*	1,148	203	13
Black or African American	5,145	3,506	969	577	72	21
American Indian or Alaska Native	3,170†	860	*	2,175	130	*
Asian or Pacific Islander	3,187	2,849	30	144	151	13
8th Grade or Less	13,715	11,832	328	1,096	436	23
Some High School	22,053	15,642	391	5,201	776	43
High School / GED	20,155	10,390	277	8,650	801	37
Some College	6,972	2,556	66	4,022	314	14
Associate Degree	13,516	1,931	45	10,757	771	12
Bachelor's Degree	6,492	498	23	5,663	305	*
Postgraduate Education	558	366	7	110	46	29
<b>Unknown</b>	46,412	14,955	260	28,689	2,444	64
<b>Marital status</b>	38,767	30,016	896	6,699	1,064	92
Married	1,469	1,093	11	255	92	18
Unmarried	18,895	11,334	281	6,410	828	42
Other/Unknown <sup>b</sup>	26,650	13,531	345	11,596	1,131	47
Inadequate	40,311	20,706	521	17,474	1,547	63
Adequate	792	493	20	163	94	22
Excessive	<b>81,490</b>	<b>42,222</b>	<b>1,082</b>	<b>34,767</b>	<b>3,294</b>	<b>125</b>
Unknown	2,746	2,160	35	458	84	9
<b>Smoking during pregnancy</b>	<b>1,851</b>	<b>1,485</b>	<b>14</b>	<b>277</b>	<b>66</b>	<b>9</b>
Non-smoker	561	197	36	141	156	31
Light smoker (less than 10 cigarettes per day)	7,772	4,394	105	2,997	255	21
Heavy smoker (10 or more cigarettes per day)	78,442	41,463	1,049	32,511	3,289	130
Unknown	290†	134	*	115	30	*
<b>Length of gestation</b>	148	73	10	20	26	19
<37 weeks						
37-41 weeks						
42+ weeks						
Unknown						



**TABLE 1B-27 (continued)  
PAYEE FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2014**

	TOTAL	Payee for birth				
		AHCCCS <sup>a</sup>	IHS	Private Insurance	Self-pay	Unknown
<b>Weight at birth</b>						
<1,000 grams	509	275	9	200	22	*
1,000-1,499	509	285	6	203	11	*
1,500-2,499	5,051	2,894	50	1,930	164	13
2,500-3,999	73,627	39,343	988	30,144	3,020	132
4000+ grams	6,901	3,246	114	3,158	373	10
Unknown	51	21	0	8	10	12
<b>Prenatal care</b>						
No care	1,835	1,264	40	155	359	17
1st trimester	57,180	27,146	632	27,568	1,770	64
2nd trimester	16,083	10,910	274	4,144	732	23
3rd trimester	4,617	3,236	97	880	397	7
Unknown	6,933	3,508	124	2,896	342	63
<b>Prenatal visits</b>						
No visits	1,835	1,264	40	155	359	17
1-4 visits	3,785	2,757	152	557	306	13
5-8 visits	12,564	8,375	310	3,279	575	25
9-12 visits	40,656	21,405	465	17,432	1,307	47
13+ visits	26,623	11,726	164	13,751	953	29
Unknown	1,185	537	36	469	100	43
<b>Newborn intensive care</b>						
Yes	5,810	3,264	75	2,233	221	17
No	80,838	42,800	1,092	33,410	3,379	157
<b>Method of delivery</b>						
Vaginal	60,278	32,746	855	23,768	2,786	123
C-Section	24,038	12,155	289	10,850	704	40
Forceps	390†	184	*	185	16	*
Vacuum	1,937	979	20	840	94	*
Unknown	6	0	0	0	0	6
<b>Obstetric procedures<sup>c</sup></b>						
Total	37,163	19,755	15,592	1,318	446	52
Induction of labor	22,350	11,783	249	9,593	690	35
Augmentation of labor	18,114	9,662	248	7,408	776	20
Cervical cerclage	170†	78	*	76	14	*
Tocolysis	267	146	7	102	9	*
External cephalic version successful	80†	35	*	37	*	0
External cephalic version failed	90†	43	*	40	*	0
<b>Births with medical risk factors<sup>c</sup></b>						
Total	15,625	8,847	5,907	478	365	28
Pre-existing diabetes	809	492	42	263	9	*
Gestational diabetes	5,309	2,786	149	2,232	136	6
Pre-existing hypertension	1,036	549	22	436	26	*
Gestational hypertension	4,542	2,414	94	1,885	144	*
Eclampsia	330†	185	*	138	*	0
Previous preterm birth	3,042	1,794	48	1,079	117	*
Other previous poor pregnancy outcome	890	417	17	421	33	*
Gonorrhea	190†	147	9	28	*	*
Syphilis	70†	54	*	8	*	0
Chlamydia	2,019	1,582	89	273	67	8
Hepatitis B	100†	56	0	40	*	0
Hepatitis C	140†	107	6	23	*	*

**TABLE 1B-27 (continued)  
PAYEE FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2014**

	TOTAL	Payee 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	18,509	9,660	7,667	850	295	37
Premature rupture of the membranes	3,430	1,661	91	1,550	122	6
Precipitous labor	5,269	3,446	70	1,354	389	10
Prolonged labor	1,807	825	36	882	60	*
Breech presentation	3,325	1,582	35	1,590	107	11
Chorioamnionitis	1,665	883	20	694	68	0
Meconium staining of the amniotic fluid	4,696	2,640	64	1,797	182	13
Fetal intolerance	4,917	2,238	65	2,437	169	8
Maternal transfusion	235	110	19	94	12	0
Third or fourth degree perineal laceration	491	178	11	269	32	*
Ruptured uterus	40†	20	0	19	*	0
Unplanned Hysterectomy	30†	13	*	9	*	0
Admission to intensive care unit	100†	59	*	34	*	0
Unplanned surgery following delivery	152	74	8	58	12	0
<b>Total</b>	<b>3,673</b>	<b>1,900</b>	<b>1,543</b>	<b>155</b>	<b>64</b>	<b>11</b>
<b>Abnormal conditions of the newborn<sup>c</sup></b>						
Assisted ventilation immediately after delivery	2,410	1,279	40	980	107	*
Assisted ventilation for more than 6 hours	1,151	604	12	492	42	*
Surfactant replacement therapy	356	223	7	109	15	*
Suspected neonatal sepsis	1,509	796	29	622	55	7
Seizure or serious neurologic dysfunction	30†	17	0	8	*	0
Significant birth injury	240†	124	*	104	14	0
<b>Total</b>	<b>420</b>	<b>230</b>	<b>150</b>	<b>24</b>	<b>12</b>	<b>4</b>
<b>Congenital anomalies of the newborn<sup>c</sup></b>						
Anencephalus	20†	13	*	7	*	0
Spina bifida / Meningocele	10†	*	0	*	*	0
Cyanotic congenital heart disease	50†	21	*	20	*	0
Congenital diaphragmatic hernia	10†	*	0	*	0	0
Omphalocele / Gastroschisis	50†	25	*	18	*	0
Limb reduction defect	20†	11	0	*	*	0
Cleft lip / palate	70†	45	0	25	*	0
Down syndrome	40†	22	*	19	*	0
Suspected chromosomal disorder	40†	22	0	10	*	0
Hypospadias	40†	14	*	15	6	0
<b>Unknown congenital anomalies</b>	<b>110†</b>	<b>60</b>	<b>6</b>	<b>35</b>	<b>*</b>	<b>*</b>

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program; <sup>b</sup> "refused", "yes, divorced", "unknown"; <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, 2014**

		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>	46,064	36	1,435	4,072	15,265	12,666	7,905	3,721	888	76	0
	<b>IHS</b>	1,170†	*	46	97	364	321	204	116	17	0	0
	<b>Private insurance</b>	35,640†	*	199	512	4,904	10,968	12,098	5,767	1,096	91	*
	<b>Self-pay</b>	3,600†	*	82	116	744	1,052	994	484	118	7	*
	<b>Unknown</b>	170†	*	8	10	52	45	34	15	6	*	*
	<b>TOTAL</b>	86,648	50†	1,770	4,807	21,329	25,052	21,235	10,103	2,125	176	10†
<b>White non-Hispanic</b>	<b>AHCCCS</b>	14,396	6	243	1,119	4,744	4,339	2,598	1,061	237	49	0
	<b>IHS</b>	120†	0	*	*	26	36	33	18	*	0	0
	<b>Private insurance</b>	23,630†	*	77	250	2,918	7,290	8,417	3,891	711	75	*
	<b>Self-pay</b>	1,860†	0	20	30	325	545	586	285	65	*	0
	<b>Unknown</b>	90†	*	*	*	21	29	18	7	*	*	*
	<b>TOTAL</b>	40,097	10†	340†	1,410†	8,034	12,239	11,652	5,262	1,020†	130†	0†
<b>Hispanic or Latino</b>	<b>AHCCCS</b>	24,148	18	956	2,388	8,081	6,118	3,970	2,082	513	22	0
	<b>IHS</b>	70†	0	*	6	21	21	16	*	0	0	0
	<b>Private insurance</b>	8,110†	*	95	202	1,542	2,624	2,288	1,126	223	8	0
	<b>Self-pay</b>	1,330†	*	57	74	342	381	286	153	37	*	*
	<b>Unknown</b>	50†	0	*	*	18	7	12	*	0	0	0
	<b>TOTAL</b>	33,715	20†	1,120†	2,675	10,004	9,151	6,572	3,370†	773	30†	0†
<b>Black or African American</b>	<b>AHCCCS</b>	3,150†	*	88	246	1,049	913	561	237	53	*	0
	<b>IHS</b>	0†	0	0	0	*	*	*	*	0	0	0
	<b>Private insurance</b>	1,148	0	13	33	203	313	358	177	44	6	*
	<b>Self-pay</b>	200†	0	*	7	33	66	71	18	6	*	0
	<b>Unknown</b>	10†	0	0	*	*	*	*	*	*	0	0
	<b>TOTAL</b>	4,520†	10†	100†	287	1,290†	1,300†	990†	440†	104	10†	0†
<b>American Indian or Alaska Native</b>	<b>AHCCCS</b>	3,510†	6	137	286	1,225	1,028	540	232	50	*	0
	<b>IHS</b>	970†	*	41	88	316	263	153	92	14	0	0
	<b>Private insurance</b>	580†	*	12	18	117	158	159	89	22	*	0
	<b>Self-pay</b>	70†	0	*	*	26	20	12	*	*	0	0
	<b>Unknown</b>	20†	0	*	*	9	6	*	*	*	0	0
	<b>TOTAL</b>	5,150†	10†	200†	400†	1,693	1,475	865	420†	90†	0†	0
<b>Asian or Pacific Islander</b>	<b>AHCCCS</b>	860†	*	11	33	166	268	236	109	35	*	0
	<b>IHS</b>	0†	0	0	0	0	0	*	*	0	0	0
	<b>Private insurance</b>	2,180†	0	*	9	124	583	876	484	96	*	0
	<b>Self-pay</b>	130†	0	0	*	18	40	39	24	8	0	0
	<b>Unknown</b>	0†	0	0	0	0	0	*	0	*	0	0
	<b>TOTAL</b>	3,170†	0†	10†	40†	308	891	1,150†	620†	140	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.

**TABLE 1B-29  
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND TRIMESTER  
OF PREGNANCY PRENATAL CARE BEGAN, ARIZONA, 2014**

		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>	1,840†	*	62	173	570	475	334	166	43	8	0
	<b>1st trimester</b>	57,180	11	834	2,613	12,934	16,965	15,135	7,149	1,439	98	*
	<b>2nd trimester</b>	16,083	14	521	1,251	4,727	4,320	3,183	1,638	386	42	*
	<b>3rd trimester</b>	4,617	6	213	384	1,396	1,229	870	404	99	15	*
	<b>Unknown</b>	6,933	11	140	386	1,702	2,063	1,713	746	158	13	*
	<b>TOTAL</b>	86,648	50†	1,770	4,807	21,329	25,052	21,235	10,103	2,125	176	10†
<b>White non-Hispanic</b>	<b>No care</b>	450†	0	*	18	120	128	96	55	17	8	0
	<b>1st trimester</b>	28,760†	*	180	842	5,261	8,867	8,824	3,948	760	73	*
	<b>2nd trimester</b>	6,000†	*	106	354	1,573	1,728	1,399	677	133	30	0
	<b>3rd trimester</b>	1,408	0	27	78	401	413	294	154	31	10	0
	<b>Unknown</b>	3,480†	*	26	113	679	1,103	1,039	428	78	10	*
	<b>TOTAL</b>	40,097	10†	340†	1,405	8,034	12,239	11,652	5,262	1,019	131	0†
<b>Hispanic or Latino</b>	<b>No care</b>	1,070†	*	51	130	357	251	179	81	20	0	0
	<b>1st trimester</b>	20,410†	*	520	1,386	5,726	5,825	4,287	2,179	464	17	0
	<b>2nd trimester</b>	7,432	7	314	705	2,380	1,831	1,297	707	183	8	0
	<b>3rd trimester</b>	2,330†	*	142	247	769	564	365	185	51	*	*
	<b>Unknown</b>	2,470†	6	88	207	772	680	444	218	55	*	0
	<b>TOTAL</b>	33,715	20†	1,115	2,675	10,004	9,151	6,572	3,370	773	30†	0†
<b>Black or African American</b>	<b>No care</b>	130†	0	*	17	36	39	19	10	*	0	0
	<b>1st trimester</b>	2,780†	*	47	149	772	799	649	281	71	6	0
	<b>2nd trimester</b>	930†	*	32	70	297	268	153	89	18	*	*
	<b>3rd trimester</b>	350†	*	10	23	87	95	102	21	9	*	0
	<b>Unknown</b>	340†	*	9	28	98	95	70	34	*	0	0
	<b>TOTAL</b>	4,520†	10†	100†	287	1,290	1,296	993	435	100†	10†	0†
<b>American Indian or Alaska Native</b>	<b>No care</b>	150†	*	*	8	50	41	28	14	*	0	0
	<b>1st trimester</b>	3,000†	*	81	218	998	862	511	275	54	*	0
	<b>2nd trimester</b>	1,230†	*	65	107	403	351	189	81	27	*	0
	<b>3rd trimester</b>	390†	*	32	34	114	115	64	25	*	0	0
	<b>Unknown</b>	380†	*	16	30	128	106	73	23	*	0	0
	<b>TOTAL</b>	5,150†	10†	200†	397	1,693	1,475	865	418	90†	0†	0
<b>Asian or Pacific Islander</b>	<b>No care</b>	40†	0	0	0	7	16	12	6	*	0	0
	<b>1st trimester</b>	2,230†	0	6	18	177	612	864	466	90	*	0
	<b>2nd trimester</b>	490†	*	*	15	74	142	145	84	25	0	0
	<b>3rd trimester</b>	140†	0	*	*	25	42	45	19	6	*	0
	<b>Unknown</b>	260†	0	*	8	25	79	87	43	16	0	0
	<b>TOTAL</b>	3,170†	0†	10†	40†	308	891	1,153	618	140†	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.

**TABLE 1B-30  
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND NUMBER OF PRENATAL VISITS,  
ARIZONA, 2014**

		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>	1,840†	*	62	173	570	475	334	166	43	8	0
	<b>1-4 visits</b>	3,785	7	158	316	1,206	976	702	344	68	8	0
	<b>5-8 visits</b>	12,564	16	383	985	3,787	3,403	2,444	1,243	276	26	*
	<b>9-12 visits</b>	40,656	11	810	2,227	9,900	11,887	10,233	4,597	909	79	*
	<b>13+ visits</b>	26,623	6	327	1,033	5,581	7,950	7,225	3,645	804	52	0
	<b>Unknown</b>	1,190†	*	30	73	285	361	297	108	25	*	*
	<b>TOTAL</b>	86,648	50†	1,770	4,807	21,329	25,052	21,235	10,103	2,125	176	10†
<b>White non- Hispanic</b>	<b>No visits</b>	450†	0	*	18	120	128	96	55	17	8	0
	<b>1-4 visits</b>	1,050†	0	12	73	282	313	220	122	24	*	0
	<b>5-8 visits</b>	4,420†	*	71	245	1,157	1,272	1,022	526	109	20	0
	<b>9-12 visits</b>	18,900†	*	171	658	3,749	5,766	5,668	2,388	436	61	*
	<b>13+ visits</b>	14,670†	*	81	394	2,606	4,570	4,463	2,099	417	34	0
	<b>Unknown</b>	610†	*	*	17	120	190	183	72	16	*	*
	<b>TOTAL</b>	40,097	10†	340†	1,405	8,034	12,239	11,652	5,262	1,019	130†	0†
<b>Hispanic or Latino</b>	<b>No visits</b>	1,070†	*	51	130	357	251	179	81	20	0	0
	<b>1-4 visits</b>	1,830†	*	114	172	637	425	290	156	33	*	0
	<b>5-8 visits</b>	5,640†	10	218	576	1,862	1,410	946	487	120	*	*
	<b>9-12 visits</b>	15,950†	*	505	1,227	4,686	4,435	3,186	1,564	331	14	0
	<b>13+ visits</b>	8,840†	*	208	527	2,343	2,517	1,906	1,062	264	10	0
	<b>Unknown</b>	390†	*	19	43	119	113	65	20	*	0	0
	<b>TOTAL</b>	33,715	20†	1,115	2,675	10,004	9,151	6,572	3,370	773	30†	0†
<b>Black or African American</b>	<b>No visits</b>	130†	0	*	17	36	39	19	10	*	0	0
	<b>1-4 visits</b>	280†	*	7	23	84	71	69	23	*	0	0
	<b>5-8 visits</b>	790†	*	24	53	231	230	170	68	15	*	0
	<b>9-12 visits</b>	2,150†	*	49	144	638	620	442	199	50	*	*
	<b>13+ visits</b>	1,116	0	15	47	283	318	282	131	34	6	0
	<b>Unknown</b>	60†	0	*	*	18	18	11	*	*	0	0
	<b>TOTAL</b>	4,520†	10†	100†	287	1,290	1,296	993	435	100†	10†	0†
<b>American Indian or Alaska Native</b>	<b>No visits</b>	150†	*	*	8	50	41	28	14	*	0	0
	<b>1-4 visits</b>	540†	*	23	46	182	151	100	30	*	0	0
	<b>5-8 visits</b>	1,320†	*	69	106	474	369	180	106	18	0	0
	<b>9-12 visits</b>	2,120†	*	78	176	682	626	351	161	37	*	0
	<b>13+ visits</b>	930†	*	20	52	282	262	188	100	28	*	0
	<b>Unknown</b>	90†	0	*	9	23	26	18	7	0	0	0
	<b>TOTAL</b>	5,150†	10†	200†	397	1,693	1,475	865	418	90†	0†	0
<b>Asian or Pacific Islander</b>	<b>No visits</b>	40†	0	0	0	7	16	12	6	*	0	0
	<b>1-4 visits</b>	80†	0	*	*	21	16	23	13	*	*	0
	<b>5-8 visits</b>	390†	*	*	*	63	122	126	56	14	0	0
	<b>9-12 visits</b>	1,540	0	7	22	145	440	586	285	55	0	0
	<b>13+ visits</b>	1,070†	0	*	13	67	283	386	253	61	*	0
	<b>Unknown</b>	50†	0	0	*	*	14	20	*	*	0	0
	<b>TOTAL</b>	3,170†	0†	10†	40†	308	891	1,153	618	140†	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.

**TABLE 1B-31 (CORRECTION)  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2014**

	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>									
<b>TOTAL</b>	86,648	1,840†	57,180	16,083	4,620†	6,933	5,620	79,843	1,190†
<15	50†	*	11	14	6	11	11	33	*
15-17	1,770	62	834	521	213	140	220	1,520	30
18-19	4,807	173	2,613	1,251	384	386	489	4,245	73
20-24	21,329	570	12,934	4,727	1,396	1,702	1,776	19,268	285
25-29	25,052	475	16,965	4,320	1,229	2,063	1,451	23,240	361
30-34	21,235	334	15,135	3,183	870	1,713	1,036	19,902	297
35-39	10,103	166	7,149	1,638	404	746	510	9,485	108
40-44	2,125	43	1,439	386	99	158	111	1,989	25
45+	176	8	98	42	15	13	16	157	*
Unknown	10†	0	*	*	*	*	0	*	*
<b>Payee for birth</b>									
AHCCCS	46,064	1,264	27,146	10,910	3,236	3,508	4,021	41,506	537
IHS	1,167	40	632	274	97	124	192	939	36
Private insurance	35,643	155	27,568	4,144	880	2,896	712	34,462	469
Self-pay	3,600	359	1,770	732	397	342	665	2,835	100
Unknown	174	17	64	23	7	63	30	101	43
<b>Mother's education</b>									
8th Grade or Less	3,187	198	1,590	847	299	253	445	2,682	60
Some High School	13,715	583	7,325	3,512	1,182	1,113	1,682	11,845	188
High School / GED	22,053	530	13,831	4,742	1,257	1,693	1,622	20,155	276
Some College	20,155	254	13,781	3,627	924	1,569	956	18,940	259
Associate Degree	6,972	76	5,067	1,107	210	512	234	6,653	85
Bachelor's Degree	13,516	100	10,289	1,558	455	1,114	389	12,945	182
Postgraduate Education	6,492	30	5,081	591	220	570	152	6,257	83
Unknown	558	64	216	99	70	109	140	366	52
<b>Marital status</b>									
Married	46,412	488	33,411	6,873	1,850	3,790	1,707	44,106	599
Unmarried	38,767	1,253	22,958	8,895	2,644	3,017	3,698	34,522	547
Other/Unknown <sup>a</sup>	1,469	94	811	315	123	126	215	1,215	39
<b>Weight gain</b>									
Inadequate	18,895	601	11,428	3,734	1,454	1,678	1,956	16,647	292
Adequate	26,650	502	17,909	5,029	1,242	1,968	1,519	24,801	330
Excessive	40,311	587	27,537	7,218	1,873	3,096	1,929	37,921	461
Unknown	792	145	306	102	48	191	216	474	102
<b>Smoking during pregnancy</b>									
Non-smoker	81,490	1,558	54,342	14,881	4,201	6,508	4,908	75,528	1,054
Light smoker (less than 10 cigarettes per day)	2,746	133	1,547	652	215	199	358	2,341	47
Heavy smoker (10 or more cigarettes per day)	1,851	106	1,029	434	154	128	271	1,537	43
Unknown	561	38	262	116	47	98	83	437	41

**TABLE 1B-31 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2014**

	TOTAL	Prenatal care					Visits					
		No care	1st trimester	2nd trimester	3rd trimester	Un-known	Less than 5	5 or more	Un-known			
<b>Length of gestation</b>												
<37 weeks	7,772	420	4,995	1,364	314	679	1,116	6,521	135			
37-41 weeks	78,442	1,353	52,025	14,667	4,267	6,130	4,405	73,052	985			
42+ weeks	286	25	139	43	32	47	48	228	10			
Unknown	150†	37	21	9	*	77	51	42	55			
<b>Weight at birth</b>												
<1,000 grams	510†	53	305	76	*	72	179	307	23			
1,000-1,499	509	30	336	95	14	34	99	401	9			
1,500-2,499	5,051	208	3,220	989	233	401	534	4,438	79			
2,500-3,999	73,627	1,448	48,622	13,739	4,061	5,757	4,496	68,178	953			
4000+ grams	6,901	92	4,679	1,179	305	646	300	6,491	110			
Unknown	50†	*	18	*	*	23	12	28	11			
<b>Newborn intensive care</b>												
Yes	5,810	292	3,734	1,097	363	324	718	5,011	81			
No	80,838	1,543	53,446	14,986	4,254	6,609	4,902	74,832	1,104			
<b>Method of delivery</b>												
Vaginal	60,278	1,393	39,157	11,412	3,208	5,108	4,038	55,376	864			
C-Section	24,038	398	16,509	4,185	1,253	1,693	1,435	22,312	291			
Forceps	389	7	249	79	28	26	25	359	*			
Vacuum	1,937	37	1,265	407	128	100	122	1,796	19			
Unknown	6	0	0	0	0	6	0	0	6			
<b>Obstetric procedures<sup>b</sup></b>												
Total	37,163	710	24,584	7,396	2,281	2,192	2,252	34,519	392			
Induction of labor	22,350	305	14,997	4,347	1,328	1,373	1,099	21,054	197			
Augmentation of labor	18,114	490	11,734	3,655	1,203	1,032	1,372	16,500	242			
Cervical cerclage	170†	*	119	33	*	12	9	158	*			
Tocolysis	270†	11	183	53	*	16	25	236	6			
External cephalic version successful	80†	0	50	13	*	9	*	73	*			
External cephalic version failed	90†	*	63	15	*	*	*	84	0			
<b>Births with medical risk factors<sup>b</sup></b>												
Total	15,625	339	10,314	3,035	967	970	1,117	14,334	174			
Pre-existing diabetes	809	18	544	160	32	55	47	754	8			
Gestational diabetes	5,309	50	3,652	991	284	332	203	5,055	51			
Pre-existing hypertension	1,036	24	683	203	55	71	75	954	7			
Gestational hypertension	4,542	112	3,015	854	291	270	334	4,152	56			
Eclampsia	331	6	238	54	18	15	21	306	*			
Previous preterm birth	3,042	109	2,040	533	185	175	298	2,703	41			
Other previous poor pregnancy outcome	890	12	618	160	45	55	64	820	6			
Gonorrhea	190†	*	105	45	20	14	23	162	*			
Syphilis	70†	*	27	15	11	8	12	53	0			
Chlamydia	2,019	62	1,096	547	202	112	230	1,766	23			
Hepatitis B	100†	*	56	21	*	13	11	87	*			
Hepatitis C	144	8	71	32	16	17	30	109	*			

**TABLE 1B-31 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2014**

	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	18,509	666	11,726	3,621	1,214	1,282	1,652	16,524	333
Premature rupture of the membranes	3,430	105	2,248	565	123	389	306	2,976	148
Precipitous labor	5,269	392	2,727	1,299	562	289	779	4,388	102
Prolonged labor	1,807	32	1,200	319	78	178	89	1,679	39
Breech presentation	3,325	86	2,291	584	147	217	253	3,031	41
Chorioamnionitis	1,665	60	1,079	337	105	84	145	1,502	18
Meconium staining of the amniotic fluid	4,696	162	2,865	938	329	402	409	4,202	85
Fetal intolerance	4,917	83	3,399	860	286	289	310	4,557	50
Maternal transfusion	235	8	150	42	21	14	33	194	8
Third or fourth degree perineal laceration	491	14	329	83	46	19	36	451	*
Ruptured uterus	40†	*	24	7	*	*	10	31	0
Unplanned Hysterectomy	30†	0	18	*	*	*	*	22	*
Admission to intensive care unit	100†	8	58	18	*	13	15	80	6
Unplanned surgery following delivery	150†	*	104	28	6	12	11	136	*
<b>Abnormal conditions of the newborn<sup>b</sup></b>									
Total	3,673	151	2,450	640	178	254	397	3,222	54
Assisted ventilation immediately after delivery	2,410	115	1,520	453	121	201	314	2,055	41
Assisted ventilation for more than 6 hours	1,151	45	794	201	40	71	157	970	24
Surfactant replacement therapy	356	18	250	49	15	24	73	274	9
Suspected neonatal sepsis	1,509	55	1,092	231	57	74	147	1,340	22
Seizure or serious neurologic dysfunction	30†	0	12	9	*	*	0	27	0
Significant birth injury	240†	*	176	39	16	9	13	227	*
<b>Congenital anomalies of the newborn<sup>b</sup></b>									
Total	420	9	248	98	28	37	44	366	10
Anencephalus	20†	*	14	*	*	*	*	20	0
Spina bifida / Meningocele	10†	*	7	*	0	*	*	9	*
Cyanotic congenital heart disease	50†	*	28	7	6	*	*	39	*
Congenital diaphragmatic hernia	10†	0	*	*	0	*	0	6	0
Omphalocele / Gastroschisis	50†	*	27	11	*	*	9	36	0
Limb reduction defect	20†	*	10	*	*	*	*	12	0
Cleft lip / palate	70†	0	45	24	*	*	*	70	*
Down syndrome	40†	*	24	13	*	*	*	40	0
Suspected chromosomal disorder	40†	0	22	10	*	*	*	34	0
Hypospadias	40†	0	22	8	*	*	*	31	0
Unknown congenital anomalies	110†	*	62	24	*	17	12	92	6

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> "refused", "yes, divorced", "unknown"; <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 (CORRECTION)  
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2014**

	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>	86,648	6,070†	80,528	50†	7,772	78,442	290†	150†
<b>Mother's age group</b>								
<15	50†	*	44	0	8	37	0	*
15-17	1,770	127	1,642	*	159	1,601	6	*
18-19	4,807	347	4,458	*	396	4,389	15	7
20-24	21,329	1,489	19,828	12	1,822	19,420	48	39
25-29	25,052	1,617	23,423	12	2,119	22,786	104	43
30-34	21,235	1,401	19,821	13	1,868	19,271	76	20
35-39	10,103	822	9,275	6	1,072	8,974	30	27
40-44	2,125	218	1,904	*	282	1,832	7	*
45+	176	44	131	*	44	130	0	*
Unknown	10†	*	*	*	*	*	0	*
<b>Payee for birth</b>								
AHCCCS	46,064	3,454	42,589	21	4,394	41,463	134	73
IHS	1,170†	65	1,102	0	105	1,049	*	10
Private insurance	35,643	2,333	33,302	8	2,997	32,511	115	20
Self-pay	3,600	197	3,393	10	255	3,289	30	26
Unknown	170†	20	142	12	21	130	*	19
<b>Mother's education</b>								
8th Grade or Less	3,187	230	2,955	*	318	2,839	19	11
Some High School	13,715	1,021	12,681	13	1,335	12,295	44	41
High School / GED	22,053	1,650	20,398	*	2,069	19,901	54	29
Some College	20,155	1,442	18,703	10	1,841	18,232	55	27
Associate Degree	6,972	426	6,543	*	590	6,360	18	*
Bachelor's Degree	13,516	804	12,706	6	1,025	12,414	66	11
Postgraduate Education	6,492	427	6,062	*	514	5,939	29	10
Unknown	560†	69	480	9	80	462	*	15
<b>Marital status</b>								
Married	46,412	2,944	43,443	25	3,869	42,325	172	46
Unmarried	38,767	2,977	35,769	21	3,712	34,862	109	84
Other/Unknown <sup>a</sup>	1,470†	148	1,316	*	191	1,255	*	18
<b>Weight gain</b>								
Inadequate	18,895	2,102	16,772	21	2,374	16,427	54	40
Adequate	26,650	1,710	24,929	11	2,169	24,379	64	38
Excessive	40,311	2,165	38,135	11	3,126	36,993	159	33
Unknown	792	92	692	8	103	643	9	37
<b>Smoking during pregnancy</b>								
Non-smoker	81,490	5,464	75,985	41	7,147	73,959	271	113
Light smoker (less than 10 cigarettes per day)	2,746	286	2,459	*	301	2,428	6	11
Heavy smoker (10 or more cigarettes per day)	1,850†	249	1,600	*	250	1,589	*	7
Unknown	560†	70	484	7	74	466	*	17

TABLE 1B-32 (continued)  
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2014

	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	1,835	291	1,540	*	420	1,353	25	37
1st trimester	57,180	3,861	53,301	18	4,995	52,025	139	21
2nd trimester	16,083	1,160	14,918	*	1,364	14,667	43	9
3rd trimester	4,617	250	4,366	*	314	4,267	32	*
Unknown	6,933	507	6,403	23	679	6,130	47	77
<b>Prenatal visits</b>								
No visits	1,835	291	1,540	*	420	1,353	25	37
1-4 visits	3,785	521	3,256	8	696	3,052	23	14
5-8 visits	12,564	1,480	11,077	7	1,904	10,626	27	7
9-12 visits	40,656	2,322	38,320	14	3,019	37,540	79	18
13+ visits	26,623	1,344	25,272	7	1,598	24,886	122	17
Unknown	1,185	111	1,063	11	135	985	10	55
<b>Newborn intensive care</b>								
Yes	5,810	2,555	3,248	7	3,049	2,725	26	10
No	80,838	3,514	77,280	44	4,723	75,717	260	138
<b>Method of delivery</b>								
Vaginal	60,278	3,077	57,165	36	4,112	55,841	208	117
C-Section	24,038	2,879	21,150	9	3,530	20,419	69	20
Forceps	390†	27	362	0	23	364	*	*
Vacuum	1,937	86	1,851	0	107	1,818	8	*
Unknown	6	0	0	6	0	0	0	6
<b>Obstetric procedures<sup>b</sup></b>								
Total	37,163	35,213	1,943	7	2,329	34,645	159	30
Induction of labor	22,350	1,212	21,134	*	1,181	21,049	109	11
Augmentation of labor	18,114	776	17,335	*	1,200	16,820	72	22
Cervical cerclage	171	126	45	0	58	112	0	*
Tocolysis	267	174	93	0	112	154	0	*
External cephalic version successful	80†	*	72	0	8	68	0	0
External cephalic version failed	90†	6	81	0	*	83	0	0
<b>Births with medical risk factors<sup>b</sup></b>								
Total	15,625	13,603	2,019	3	2,750	12,837	20	18
Pre-existing diabetes	810†	91	718	0	181	627	*	0
Gestational diabetes	5,309	432	4,876	*	717	4,583	7	*
Pre-existing hypertension	1,036	189	846	*	224	811	0	*
Gestational hypertension	4,542	865	3,677	0	1,043	3,485	7	7
Eclampsia	331	118	213	0	135	196	0	0
Previous preterm birth	3,040†	556	2,485	*	866	2,171	*	*
Other previous poor pregnancy outcome	890†	149	740	*	170	718	*	*
Gonorrhea	189	14	175	0	16	171	0	*
Syphilis	65	13	52	0	10	55	0	0
Chlamydia	2,020†	127	1,892	0	164	1,846	*	*
Hepatitis B	99	8	91	0	12	87	0	0
Hepatitis C	144	17	127	0	22	122	0	0

**TABLE 1B-32 (continued)  
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2014**

	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	18,509	16,088	2,406	15	2,963	15,431	80	35
Premature rupture of the membranes	3,430†	807	2,618	*	1,139	2,278	*	8
Precipitous labor	5,269	470	4,792	7	603	4,620	27	19
Prolonged labor	1,807	104	1,703	0	144	1,647	15	*
Breech presentation	3,330†	913	2,408	*	1,012	2,306	*	*
Chorioamnionitis	1,665	124	1,541	0	156	1,499	9	*
Meconium staining of the amniotic fluid	4,696	221	4,475	0	231	4,431	27	7
Fetal intolerance	4,917	516	4,401	0	546	4,334	32	*
Maternal transfusion	235	38	197	0	45	190	0	0
Third or fourth degree perineal laceration	490†	12	478	*	17	471	*	0
Ruptured uterus	41	13	28	0	16	25	0	0
Unplanned Hysterectomy	30†	*	23	0	6	20	0	0
Admission to intensive care unit	101	37	64	0	41	58	0	*
Unplanned surgery following delivery	152	25	125	*	25	126	0	*
Total	3,673	2,360	1,307	6	1,497	2,149	19	8
<b>Abnormal conditions of the newborn<sup>b</sup></b>								
Total	2,410	999	1,405	6	1,115	1,280	11	*
Assisted ventilation immediately after delivery	1,151	686	463	*	763	380	7	*
Assisted ventilation for more than 6 hours	356	282	74	0	307	48	0	*
Surfactant replacement therapy	1,509	584	924	*	682	814	8	*
Suspected neonatal sepsis	27	6	21	0	7	20	0	0
Seizure or serious neurologic dysfunction	240†	12	231	0	18	224	*	0
Significant birth injury	420†	309	109	2	105	309	2	4
Total	20†	13	10	0	*	17	*	0
Anencephalus	10†	*	10	0	*	8	0	0
Spina bifida / Meningocele	46	12	34	0	12	34	0	0
Cyanotic congenital heart disease	10†	*	*	0	*	*	0	0
Congenital diaphragmatic hernia	45	22	23	0	22	23	0	0
Omphalocele / Gastroschisis	20†	*	12	*	6	11	0	0
Limb reduction defect	74	11	63	0	9	64	0	*
Cleft lip / palate	43	7	36	0	10	33	0	0
Down syndrome	35	14	21	0	13	22	0	0
Suspected chromosomal disorder	40†	*	31	0	*	31	0	0
Hypospadias	110†	29	80	*	30	76	*	*
Unknown congenital anomalies								

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> "refused", "yes, divorced", "unknown"; <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 (CORRECTION)  
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2014**

	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>	86,648	46	1,770	4,807	21,329	25,052	21,235	10,103	2,125	176	5	
<b>Mother's race/ethnicity</b>												
White non-Hispanic	40,097	8	344	1,405	8,034	12,239	11,652	5,262	1,019	131	*	
Hispanic or Latino	33,715	23	1,115	2,675	10,004	9,151	6,572	3,370	773	31	*	
Black or African American	4,520†	*	102	287	1,290	1,296	993	435	104	9	*	
American Indian or Alaska Native	5,150†	9	196	397	1,693	1,475	865	418	89	*	0	
Asian or Pacific Islander	3,170†	*	13	43	308	891	1,153	618	140	*	0	
<b>Payee for birth</b>												
AHCCCS	46,064	36	1,435	4,072	15,265	12,666	7,905	3,721	888	76	0	
IHS	1,170†	*	46	97	364	321	204	116	17	0	0	
Private insurance	35,640†	*	199	512	4,904	10,968	12,098	5,767	1,096	91	*	
Self-pay	3,600†	*	82	116	744	1,052	994	484	118	7	*	
Unknown	170†	*	8	10	52	45	34	15	6	*	*	
<b>Mother's education</b>												
8th Grade or Less	3,187	31	131	153	541	720	797	610	197	7	0	
Some High School	13,715	15	1,460	2,020	4,284	2,968	1,828	917	214	9	0	
High School / GED	22,050†	0	156	2,026	8,145	6,250	3,560	1,530	367	19	0	
Some College	20,160†	0	14	553	6,181	6,778	4,422	1,840	351	16	0	
Associate Degree	6,970†	0	0	31	1,189	2,511	2,095	945	184	17	0	
Bachelor's Degree	13,520†	0	0	0	841	4,412	5,346	2,481	404	31	*	
Postgraduate Education	6,490†	0	0	0	76	1,305	3,043	1,678	357	33	0	
Unknown	560†	0	9	24	72	108	144	102	51	44	*	
<b>Marital status</b>												
Married	46,410†	0	85	615	6,814	14,756	15,277	7,291	1,469	104	*	
Unmarried	38,767	46	1,683	4,173	14,241	9,870	5,572	2,580	572	30	0	
Other/Unknown <sup>a</sup>	1,470†	0	*	19	274	426	386	232	84	42	*	
<b>Weight gain</b>												
Inadequate	18,895	16	453	1,153	5,016	5,259	4,289	2,182	483	43	*	
Adequate	26,650	11	521	1,353	6,268	7,781	6,783	3,200	676	55	*	
Excessive	40,311	18	774	2,258	9,834	11,782	10,001	4,629	941	74	0	
Unknown	790†	*	22	43	211	230	162	92	25	*	*	
<b>Smoking during pregnancy</b>												
Non-smoker	81,490	44	1,703	4,494	19,667	23,511	20,250	9,662	2,006	149	*	
Light smoker (less than 10 cigarettes per day)	2,750†	*	44	187	930	814	502	210	45	13	0	
Heavy smoker (10 or more cigarettes per day)	1,850†	0	15	94	572	568	381	161	51	9	0	
Unknown	560†	*	6	34	154	153	114	70	23	*	*	
<b>Length of gestation</b>												
<37 weeks	7,772	8	159	396	1,822	2,119	1,868	1,072	282	44	*	
37-41 weeks	78,442	37	1,601	4,389	19,420	22,786	19,271	8,974	1,832	130	*	
42+ weeks	290†	0	6	15	48	104	76	30	7	0	0	
Unknown	150†	*	*	7	39	43	20	27	*	*	*	
<b>Weight at birth</b>												
<1,000 grams	510†	0	10	29	123	128	118	80	19	*	0	
1,000-1,499	510†	0	14	25	113	132	125	77	20	*	0	
1,500-2,499	5,050†	*	103	293	1,253	1,357	1,158	665	179	39	*	
2,500-3,999	73,627	43	1,575	4,230	18,540	21,322	17,780	8,301	1,710	124	*	
4000+ grams	6,900†	*	67	228	1,288	2,101	2,041	974	194	7	0	
Unknown	50†	0	*	*	12	12	13	6	*	*	*	

**TABLE 1B-33 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2014**

	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	1,840†	*	62	173	570	475	334	166	43	8	0			
1st trimester	57,180	11	834	2,613	12,934	16,965	15,135	7,149	1,439	98	*			
2nd trimester	16,083	14	521	1,251	4,727	4,320	3,183	1,638	386	42	*			
3rd trimester	4,617	6	213	384	1,396	1,229	870	404	99	15	*			
Unknown	6,933	11	140	386	1,702	2,063	1,713	746	158	13	*			
<b>Prenatal visits</b>														
No visits	1,840†	*	62	173	570	475	334	166	43	8	0			
1-4 visits	3,785	7	158	316	1,206	976	702	344	68	8	0			
5-8 visits	12,564	16	383	985	3,787	3,403	2,444	1,243	276	26	*			
9-12 visits	40,656	11	810	2,227	9,900	11,887	10,233	4,597	909	79	*			
13+ visits	26,623	6	327	1,033	5,581	7,950	7,225	3,645	804	52	0			
Unknown	1,190†	*	30	73	285	361	297	108	25	*	*			
<b>Newborn intensive care</b>														
Yes	5,810†	*	119	304	1,382	1,522	1,431	777	243	26	*			
No	80,838	42	1,651	4,503	19,947	23,530	19,804	9,326	1,882	150	*			
<b>Method of delivery</b>														
Vaginal	60,278	40	1,445	3,785	15,850	17,702	14,123	6,092	1,153	86	*			
C-Section	24,040†	*	247	835	4,843	6,713	6,586	3,796	926	87	*			
Forceps	390†	*	10	26	91	101	106	43	11	0	0			
Vacuum	1,940†	*	68	161	545	536	418	171	34	*	0			
Unknown	10†	0	0	0	0	0	*	*	*	*	*			
<b>Obstetric procedures<sup>b</sup></b>														
Total	37,163	19	879	2,411	9,889	10,691	8,451	3,936	820	63	4			
Induction of labor	22,350	12	499	1,293	5,718	6,417	5,221	2,585	553	50	*			
Augmentation of labor	18,114	6	484	1,336	5,008	5,245	3,974	1,692	348	17	*			
Cervical cerclage	170†	0	*	*	34	41	44	33	10	0	0			
Tocolysis	270†	0	12	13	81	79	54	24	*	0	0			
External cephalic version successful	80†	*	0	*	15	23	21	11	*	0	0			
External cephalic version failed	90†	0	0	9	18	25	21	9	*	0	0			
<b>Births with medical risk factors<sup>b</sup></b>														
Total	15,630†	3	270	728	3,369	4,076	4,029	2,444	641	63	2			
Pre-existing diabetes	810†	0	*	20	107	162	251	191	69	6	0			
Gestational diabetes	5,310†	0	29	108	748	1,339	1,595	1,122	347	21	0			
Pre-existing hypertension	1,040†	*	8	18	123	241	341	230	68	6	0			
Gestational hypertension	4,540†	*	97	250	1,055	1,213	1,143	609	151	21	*			
Eclampsia	330†	0	10	22	65	82	76	62	11	*	0			
Previous preterm birth	3,040†	0	10	49	564	905	872	522	109	11	0			
Other previous poor pregnancy outcome	890†	0	*	20	135	249	284	154	38	*	0			
Gonorrhea	190†	0	9	21	82	46	20	6	*	*	0			
Syphilis	70†	0	*	*	17	17	16	7	*	0	0			
Chlamydia	2,020†	*	130	307	917	417	179	55	10	*	0			
Hepatitis B	100†	0	*	6	17	23	25	20	6	*	0			
Hepatitis C	140†	0	*	*	27	51	33	18	7	*	0			

**TABLE 1B-33 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2014**

	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	18,509	11	430	1,080	4,479	5,118	4,561	2,253	528	46	3			
Premature rupture of the membranes	3,430†	*	103	211	883	965	808	359	93	6	0			
Precipitous labor	5,270†	*	119	283	1,228	1,453	1,337	668	164	14	0			
Prolonged labor	1,810†	*	47	128	482	548	381	182	37	*	0			
Breech presentation	3,330†	*	43	130	608	896	964	539	124	18	*			
Chorioamnionitis	1,670†	0	69	173	526	422	300	140	35	0	0			
Meconium staining of the amniotic fluid	4,700†	*	105	311	1,257	1,311	1,123	472	110	*	*			
Fetal intolerance	4,920†	*	108	303	1,279	1,339	1,166	578	129	12	*			
Maternal transfusion	240†	*	8	8	51	66	58	34	9	0	0			
Third or fourth degree perineal laceration	490†	*	10	38	104	136	139	51	12	0	0			
Ruptured uterus	40†	0	0	*	6	13	12	8	*	0	0			
Unplanned Hysterectomy	30†	0	0	0	*	6	9	6	*	0	0			
Admission to intensive care unit	100†	0	*	6	15	23	20	26	8	0	*			
Unplanned surgery following delivery	150†	0	*	7	30	35	50	20	6	0	0			
<b>Abnormal conditions of the newborn<sup>b</sup></b>														
Total	3,670†	2	77	240	907	998	869	449	119	10	2			
Assisted ventilation immediately after delivery	2,410†	*	48	149	561	637	604	315	85	8	*			
Assisted ventilation for more than 6 hours	1,150†	*	18	59	267	303	301	155	43	*	0			
Surfactant replacement therapy	360†	0	6	17	98	93	82	45	15	0	0			
Suspected neonatal sepsis	1,510†	0	40	105	419	401	339	156	46	*	*			
Seizure or serious neurologic dysfunction	30†	0	*	*	*	11	8	*	0	0	0			
Significant birth injury	240†	0	*	20	60	76	44	34	*	*	0			
Total	420†	0	9	26	109	99	86	61	28	1	1			
<b>Congenital anomalies of the newborn<sup>b</sup></b>														
Anencephalus	20†	0	*	*	*	7	8	*	0	0	0			
Spina bifida / Meningocele	10†	0	0	*	*	*	*	0	0	0	0			
Cyanotic congenital heart disease	50†	0	0	*	9	11	11	6	6	0	0			
Congenital diaphragmatic hernia	10†	0	0	0	*	*	*	*	*	0	0			
Omphalocele / Gastroschisis	50†	0	*	*	22	9	*	*	*	0	0			
Limb reduction defect	20†	0	*	*	*	*	*	0	*	0	0			
Cleft lip / palate	70†	0	*	*	22	15	18	11	*	0	0			
Down syndrome	40†	0	0	*	7	*	9	13	8	*	0			
Suspected chromosomal disorder	40†	0	*	0	6	6	7	10	*	0	0			
Hypospadias	40†	0	0	*	10	13	7	*	0	0	0			
Unknown congenital anomalies	110†	0	*	8	25	29	22	16	6	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> "refused", "yes, divorced", "unknown"; <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, 2014**

	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>	420	241	179	202	122	80	158	84	74	13	6	7	41	25	16	6	4	2
<b>Anencephalus</b>	23	9	14	10†	*	*	10†	*	8	0	0	0	0†	*	*	0	0	0
<b>Spina bifida / Meningocele</b>	10†	8	*	10†	*	*	0†	*	*	0	0	0	0†	*	*	0	0	0
<b>Cyanotic congenital heart disease</b>	46	22	24	26	14	12	13	6	7	0†	0	*	0†	*	*	0†	*	0
<b>Congenital diaphragmatic hernia</b>	10†	*	*	0†	*	*	0†	*	*	0	0	0	0	0	0	0	0	0
<b>Omphalocele / Gastroschisis</b>	45	22	23	17	9	8	21	10	11	0†	0	*	10†	*	*	0†	*	0
<b>Limb reduction defect</b>	17	10	7	10†	*	*	10†	6	*	0	0	0	0†	*	0	0	0	0
<b>Cleft lip / palate</b>	74	44	30	32	20	12	28	14	14	0†	*	*	10†	8	*	0	0	0
<b>Down syndrome</b>	43	22	21	25	13	12	14	8	6	0†	0	*	0†	*	*	0†	0	*
<b>Suspected chromosomal disorder</b>	35	21	14	15	8	7	20†	10	*	0†	*	*	0†	*	*	0†	*	0
<b>Hypospadias</b>	36	36	0	28	28	0	7	7	0	0	0	0	0†	*	0	0	0	0
<b>Unknown congenital anomalies</b>	110	56	54	49	22	27	41	20	21	10†	*	*	10†	8	*	0†	*	*
<b>Ratio per 100 births<sup>a</sup></b>	<b>0.5</b>	<b>0.5</b>	<b>0.4</b>	<b>0.5</b>	<b>0.6</b>	<b>0.4</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>	<b>0.3</b>	<b>0.8</b>	<b>1.0</b>	<b>0.6</b>	<b>0.2</b>	<b>0.2</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.**

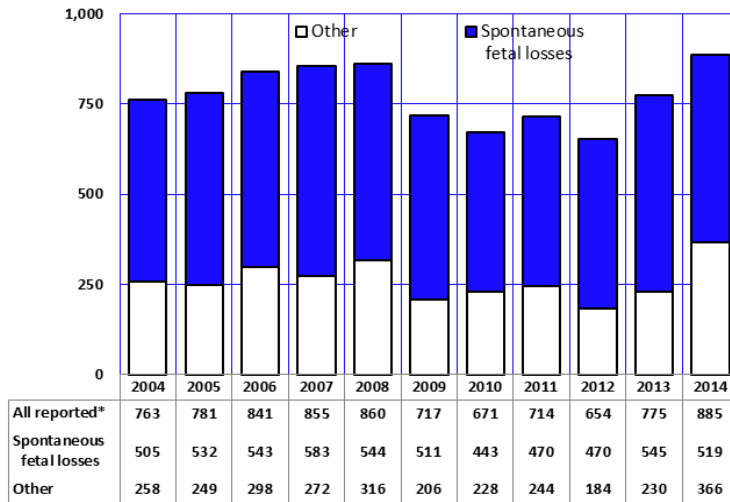
**FETAL, PERINATAL, AND MATERNAL DEATHS**

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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

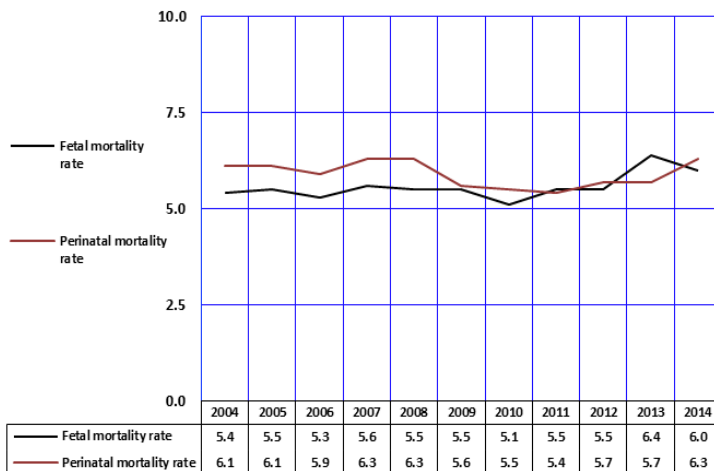
**Figure 1C-1**  
**Trends in Fetal Deaths, Arizona, 2004-2014**



The number of all reported fetal deaths in Arizona (including late term abortions) in 2014 was 885, a 14.2 percent increase from 2013 (**Figure 1C-1, Table 1C-3**). In 2014, the annual number of reportable spontaneous fetal losses declined 4.8 percent from 545 in 2013 to 519, and remained lower than the recent high of 583 in 2007 (**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, 2004 – 2014**



The fetal mortality rate fell 6.3 percent from 2013 to 2014 to a rate of 6.0 deaths at 20 or more weeks of gestation per 1,000 live births. The number of spontaneous fetal losses declined 5.0 percent from 2013 to 2014 to a total of 519 spontaneous fetal losses.

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. The perinatal mortality rate in 2014 was 6.3, up 10.5 percent from 2013 (**Figure 1C-2, Table 1C-3**).

Early infant deaths accounted for 286 or 52.0 percent of the 551 perinatal deaths in 2014 (**Figure 1C-2, Table 1C-3**).

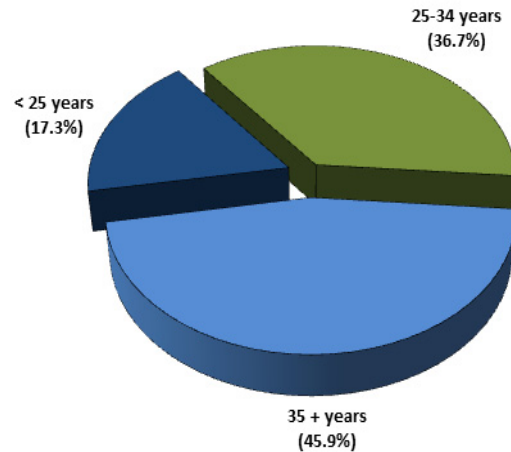
Notes: <sup>a</sup> Rate is the number of events per 1,000 live births and fetal deaths. <sup>b</sup> Infant deaths of less than 7 days and fetal deaths with gestation of 28 weeks or more, per 1,000 live births and fetal deaths.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

**Figure 1C-3**  
**Percent of Death from Maternal Causes by Mother's Age Group, Arizona, 2004- 2014**

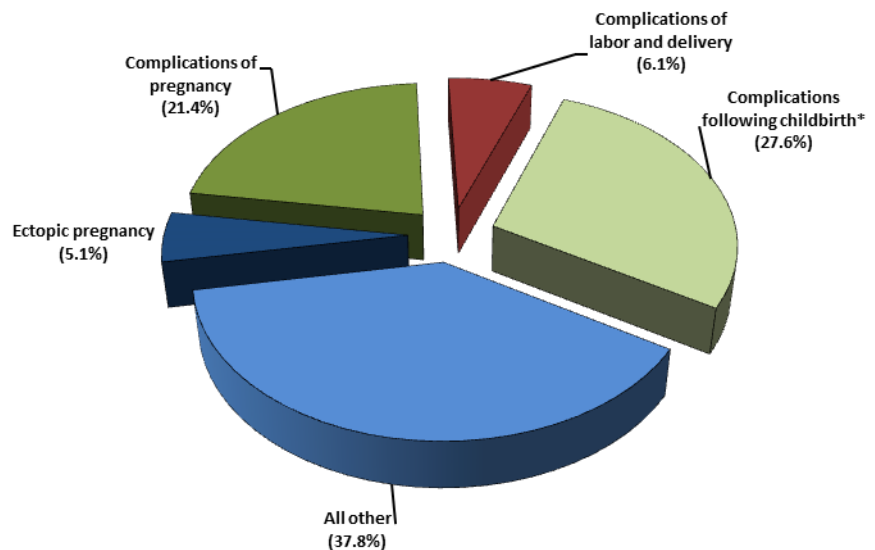
The number of women who died from maternal causes remained unchanged from 2013 to 2014. In 2014, 9 women giving birth were reported to have died from maternal causes (**Table 1C-1**). The number of maternal deaths does not include all deaths occurring to pregnant women, but only those deaths assigned to causes related to or aggravated by pregnancy or pregnancy management.

Based on the total number of 98 maternal deaths from 2004 to 2014, women age 35 and greater 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, 2004-2014**

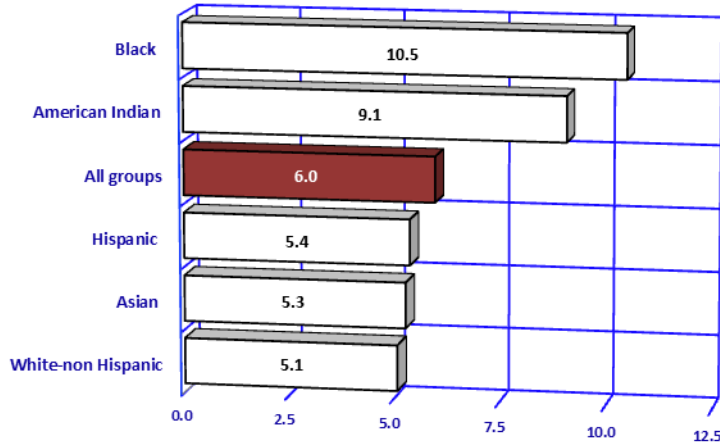
In the eleven-year period from 2004 to 2014, the major causes of maternal deaths in the State have included complications following childbirth (i.e. complications of the puerperium), complications mainly related to pregnancy, complications occurring in the course of labor and delivery, and ectopic pregnancy. All other possible causes of maternal death accounted for 38.5 percent of the maternal deaths from 2004 to 2014 (**Figure 1C-4**, **Table 1C-2**).



Notes: <sup>a</sup> Based on the total number of maternal deaths from 2003 to 2013; \* Complications of the puerperium.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

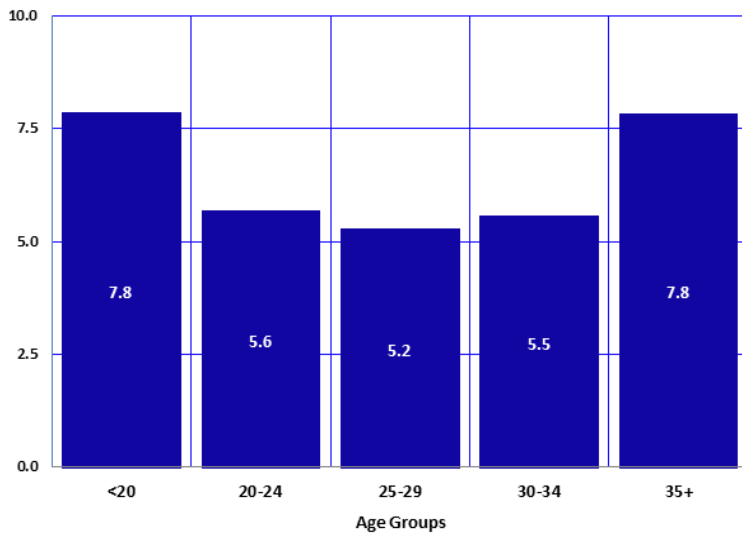
**Figure 1C-5**  
**Fetal Mortality Rates<sup>a</sup> by Race/Ethnicity, Arizona, 2014**



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 10.5 per 1,000 live births plus fetal deaths, the highest rate among the racial/ethnic groups. The fetal mortality rate was equally high for American Indian women (9.1), while the rates of Hispanic or Latino (5.4), Asian (5.3) and White non-Hispanic women (5.1) 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<sup>a</sup> by Mother's Age Group, Arizona, 2014**



Fetal mortality rates also vary by maternal age (**Figure 1C-6**). In 2014, fetal mortality rates were lowest for women aged 25-29 years and highest for women aged less than 20 years and those aged 35 years and older. The fetal mortality rate for mothers aged 35 and older, although high, dropped by 3.2 percent from 2013.

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, 2004-2014**

Year	Total maternal deaths	Under <15	15-19	20-24	25-29	30-34	35-39	40-44	45+
2004	0†	0	0	*	*	0	0	0	0
2005	10†	0	0	*	*	0	*	*	0
2006	10†	0	*	*	*	*	*	*	0
2007	10†	0	*	0	0	*	*	*	0
2008	10†	0	0	*	*	*	*	0	0
2009	10†	0	0	0	*	*	*	0	0
2010	10†	0	*	*	*	*	*	*	*
2011	10†	0	0	*	*	0	*	*	0
2012	20†	0	0	0	*	*	*	*	*
2013	10†	0	0	*	*	*	*	0	*
2014	10†	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; <sup>a</sup> Maternal deaths are those assigned to complications of pregnancy, childbirth, and puerperium, category numbers 630-676 of the Ninth Revision, *International Classification of Diseases*; beginning in 2000, these are category codes O00-O99 according to the Tenth Revision of the *International Classification of Diseases*.

**TABLE 1C-2  
MATERNAL DEATHS BY CAUSE AND YEAR, ARIZONA, 2004-2014**

Cause of death (ICD-9/ICD-10 codes)	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>PREGNANCY WITH ABORTIVE OUTCOME (630-636/O00-O07)</b>	0	0	*	*	*	*	*	0	0	*	*
Ectopic pregnancy (633/O00)	0	*	*	*	*	*	0	0	0	0	*
<b>COMPLICATIONS MAINLY RELATED TO PREGNANCY (640-648/O10-O16)</b>	0	0	0	*	*	*	*	*	*	*	*
<b>COMPLICATIONS OCCURRING IN THE COURSE OF LABOR AND DELIVERY (660-669/O60-O75)</b>	*	0	*	0	*	*	*	0	0	*	0
<b>COMPLICATIONS OF THE PUERPERIUM<sup>a</sup> (670-676/O85-O92)</b>	0	*	*	*	*	*	*	*	7	0	0
<b>ALL OTHER</b>	*	*	*	*	*	0	*	*	8	*	7
<b>TOTAL</b>	0†	10†	10†	10†	10†	10†	10†	10†	20†	10†	10†

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; in parentheses are category codes from the Ninth Revision/Tenth Revision of the *International Classification of Diseases*.

**TABLE 1C-3  
FETAL AND PERINATAL DEATHS AND RATES BY YEAR, ARIZONA, 2004-2014**

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>NUMBER OF ALL REPORTED FETAL DEATHS</b> Include 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.	763	781	841	855	860	717	671	714	654	775	885
<b>NUMBER OF REPORTABLE FETAL DEATHS</b> Include spontaneous and induced terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight)	581	597	690	729	724	621	581	619	588	554	653
<b>NUMBER OF REPORTABLE SPONTANEOUS FETAL LOSSES</b> Include 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), exclude induced terminations of pregnancy	505	532	543	583	544	511	443	470	470	545	519
<b>RATE OF REPORTABLE SPONTANEOUS FETAL LOSSES<sup>a</sup></b>	<b>5.4</b>	<b>5.5</b>	<b>5.3</b>	<b>5.6</b>	<b>5.5</b>	<b>5.5</b>	<b>5.1</b>	<b>5.5</b>	<b>5.5</b>	<b>6.4</b>	<b>6.0</b>
<b>NUMBER OF PERINATAL DEATHS</b>  Spontaneous fetal losses of 28 or more weeks of gestation	590	588	599	649	632	524	483	465	487	483	551
Infant deaths of less than 7 days	271	266	259	290	293	243	214	216	221	262	265
<b>PERINATAL DEATH RATE<sup>b</sup></b>	<b>6.1</b>	<b>6.1</b>	<b>5.9</b>	<b>6.3</b>	<b>6.3</b>	<b>5.6</b>	<b>5.5</b>	<b>5.4</b>	<b>5.7</b>	<b>5.7</b>	<b>6.5</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

**TABLE 1C-4  
SELECTED CHARACTERISTICS OF REPORTABLE SPONTANEOUS<sup>a</sup> FETAL LOSSES BY YEAR, ARIZONA, 2004-2014**

Characteristic	Year										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Total reportable spontaneous fetal losses</b>	505	532	543	583	544	511	443	470	470	545	519
<b>Gender</b>											
Male	231	262	286	300	295	262	229	218	239	260	293
Female	270	268	252	277	246	244	208	245	222	256	222
Unknown	*	*	*	*	*	*	6	7	9	29	*
<b>Mother's race/ethnicity</b>											
White non-Hispanic	210	208	210	215	198	197	156	192	195	247	205
Hispanic or Latino	214	232	244	267	234	204	198	181	181	205	182
Black or African American	30	33	39	44	44	52	39	27	36	40	48
American Indian or Alaska Native	31	45	38	39	47	46	30	43	43	40	47
Asian or Pacific Islander	17	11	10	17	19	11	17	27	15	13	17
Unknown	*	*	*	*	*	*	*	0	0	0	20
<b>Mother's age group</b>											
<15	*	0	*	*	*	0	*	0	*	0	0
15-17	25	29	31	38	22	26	18	14	16	18	25
18-19	50	44	49	46	49	40	33	35	37	34	27
20-24	130	141	117	152	132	111	104	117	130	115	120
25-29	106	125	138	144	141	126	114	111	100	159	131
30-34	105	112	98	99	113	105	74	114	98	123	117
35-39	67	58	73	81	63	76	75	56	58	79	67
40-44	17	17	26	15	18	24	20	22	27	13	30
45+	*	*	*	*	*	*	*	*	*	*	0
Unknown	*	*	*	*	*	*	*	0	*	*	*
<b>Gestational age<sup>b</sup></b>											
20-27 weeks	254	263	284	292	250	264	227	255	248	282	250
28+ weeks	249	266	259	290	293	243	214	215	221	262	265
Unknown	*	*	0	*	*	*	*	0	*	*	*
<b>Weight in grams</b>											
<350 grams	83	95	101	96	63	110	105	96	119	108	99
350-499	83	79	106	83	54	69	66	80	68	73	74
500-2,500	219	225	223	264	253	219	173	193	179	229	236
2,501-3,999	84	102	88	108	103	89	74	80	87	103	85
4,000+	21	13	13	19	9	13	20	11	14	6	9
Unknown	15	18	12	13	62	11	*	10	*	26	16

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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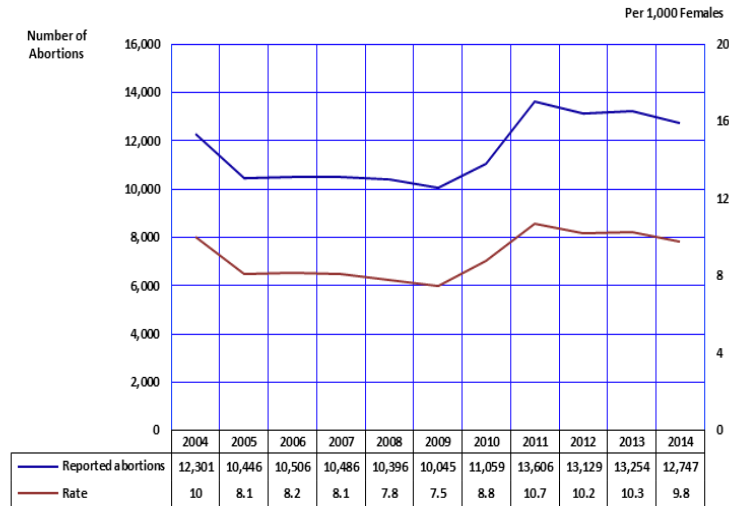
In July 1976, the Arizona Department of Health Services (ADHS) began an Abortion Surveillance Program (*Arizona Administrative Code, R9-19-302D*, as authorized by the *Arizona Revised Statute 36-344*). The program required the reporting of induced terminations of pregnancy performed in hospitals, outpatient treatment centers, and physicians' offices throughout the State.

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 office of the Courts were 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 was begun 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 2014, 4.1 percent (n = 519) of abortion records had race and ethnicity identified as unknown, and 2.8 percent (n = 361) of abortion records had two or more racial/ethnic group 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, 2004-2014**



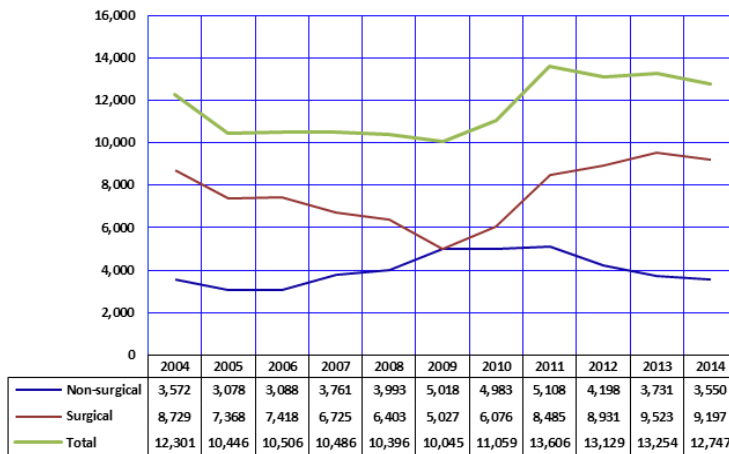
In calendar year 2014, the Arizona Department of Health Services received 12,747 reports of abortions obtained by Arizona residents, 507 less than the 13,254 reported in 2013 (**Figure 1-D1, Table 1D-1**).

There were 12,671 abortions in non-hospital clinics (**Table 1D-1**). Hospitals accounted for 70 abortion procedures, with 6 procedures being performed outside of clinics and hospitals.

Ninety-one percent of all reported abortions occurred at or before 13 weeks of pregnancy. Few reported abortions occurred after 14 or more weeks of gestation: 7.6 percent at 14 weeks or more (percentages based on data in **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, 2004-2014**

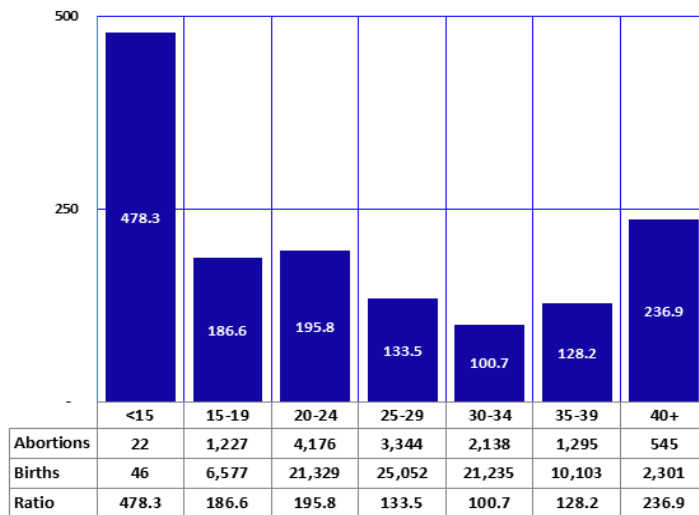


The rate of induced terminations of pregnancy per 1,000 female residents aged 15-44 dropped 4.9 percent to 9.8 in 2014 (**Table 1D-1**). The relative stability in the abortion ratios and rates from 2011 through 2014, when compared to the variability observed from 2010 to 2011, reflects the new reporting abortion requirements implemented mid-year in 2010.

Trends in the percent of abortions conducted through surgical and non-surgical means from 2004 to 2014 indicate shifting practices in methods used to complete abortions. In 2004, 71.0 percent of all abortion procedures were surgical procedures. By 2009, the number of abortions performed by surgical versus non-surgical means was nearly equal. Since then, the proportion of abortions conducted through surgical means has again increased, with 72.2 percent of all abortion procedures conducted in 2014 being surgical procedures.

## 1D. ABORTIONS

**Figure 1D-3**  
Abortion Ratios<sup>a</sup> by Age Group, Arizona Residents, 2014

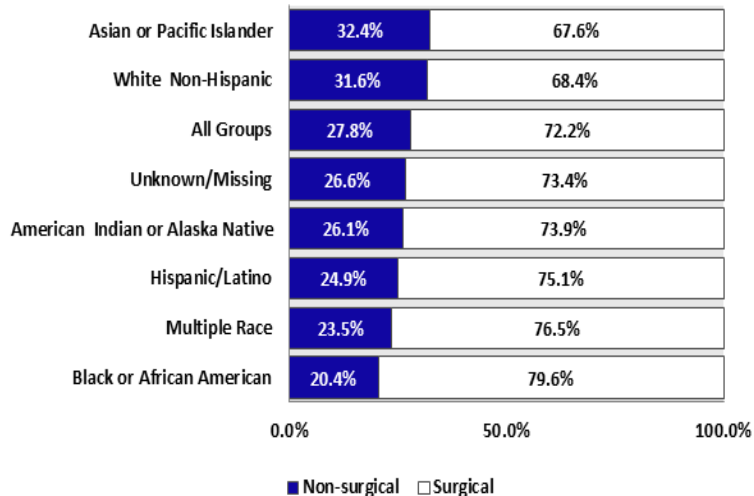


Abortion ratios (the number of abortions per 1,000 live births in each age group) vary by age at reported termination of pregnancy. Ratios tend to be higher at the extremes of the age distribution of the childbearing period, i.e. among women under age 15 and those aged 40 years or older (**Figure 1D-3**).

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

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

**Figure 1D-4**  
Proportional Contribution of Non-Surgical<sup>a</sup> and Surgical Abortions by Race/Ethnicity, Arizona Residents, 2014



In 2014, non-surgical (also called “medical”) abortions made up 27.8 percent of all procedures reported in Arizona. Among Asians and White non-Hispanics, the proportion of non-surgical abortions exceeded the average for all groups (**Figure 1D-4**). The ratios of non-surgical abortions among Black or African American women were the lowest among racial/ethnic groups.

Notes: <sup>a</sup> Non-surgical: Mifepristone, Methotrexate, RU486, etc.; Reporting changes related to race/ethnicity makes comparisons with previous years difficult.

**TABLE 1D-1  
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 2004-2014**

Characteristics	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>ABORTIONS PERFORMED IN ARIZONA</b>	12,690	10,723	10,836	10,721	10,660	10,271	11,438	14,401	13,340	13,401	12,900
<b>RESIDENT ABORTIONS</b>	12,301	10,446	10,506	10,486	10,396	10,045	11,059	13,606	13,129	13,254	12,747
<b>RACE/ETHNICITY</b>											
White non-Hispanic	5,276	4,431	5,106	5,202	4,737	4,759	5,241	2,385	1,904	2,515	5,562
Hispanic or Latino	4,485	3,112	3,160	3,719	3,124	3,303	3,422	4,274	3,393	4,189	4,499
Black or African American	723	585	581	675	744	736	476	145	116	189	981
American Indian	341	353	342	310	297	300	218	48	38	61	291
Asian or other Pacific Islander	444	379	391	454	412	390	254	47	75	110	534
Multiple race <sup>a</sup>	NA	NA	NA	NA	NA	NA	NA	4,442	2,985	4,257	361
Unknown	1,032	1,586	926	126	1,082	557	1,448	2,265	4,618	1,933	519
<b>AGE</b>											
19 years and under	2,220	1,892	1,919	1,979	1,813	1,519	1,512	1,785	1,539	1,441	1,249
20-29 years	6,800	5,684	5,770	5,839	5,854	5,753	6,278	7,814	7,602	7,676	7,520
30 years and over	2,939	2,436	2,702	2,652	2,403	2,532	3,113	4,007	3,987	4,136	3,978
Not stated	342	434	115	16	326	241	156	NA	*	*	0
<b>YEARS OF EDUCATION</b>											
Elementary/secondary (1-12)	3,321	1,435	6,226	9,293	6,964	5,244	4,316	4,757	3,615	2,400	1,372
College (1-4 or 5+)	2,726	1,330	1,415	1,193	2,565	3,372	3,199	2,252	2,518	2,522	2,706
Not stated or unknown	6,254	7,681	2,865	0	867	1,429	3,544	6,597	6,996	8,332	8,064
<b>WEEKS OF GESTATION</b>											
12 weeks or under	10,678	8,558	9,470	9,498	9,175	9,238	9,967	12,156	11,677	11,767	11,232
13 weeks or over	1,224	1,068	948	974	916	597	948	1,427	1,432	1,487	1,507
Not stated or unknown	399	820	88	14	305	210	144	23	20	0	8
<b>FACILITY</b>											
Clinic	12,281	10,442	10,560	10,486	10,391	9,362	9,689	14,358	13,072	13,023	12,671
Hospital	0	0	0	0	0	0	16	42	54	152	70
Other	20	*	0	0	*	683	<sup>d</sup> 1354	0	*	79	6

**TABLE 1D-1 (continued)  
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 2004-2014**

Characteristics	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>PREVIOUS LIVE BIRTHS</b>											
None	5,215	4,593	4,798	4,517	4,441	4,377	4,867	5,820	5,829	5,810	5,201
One or more	7,086	5,853	5,708	5,969	5,955	5,668	6,178	7,772	7,280	7,387	7,337
<b>PREVIOUS ABORTIONS</b>											
None	7,778	6,453	6,390	6,453	6,338	5,874	6,746	8,382	8,445	8,450	7,872
One or more	4,523	3,993	4,116	4,033	4,058	4,171	4,282	5,183	4,616	4,672	4,616
<b>PREVIOUS SPONTANEOUS TERMINATIONS OF PREGNANCY</b>											
None	10,454	8,916	8,864	8,807	8,756	8,424	9,300	11,257	10,941	10,825	10,241
One or more	1,847	1,530	1,642	1,679	1,640	1,621	1,643	2,301	2,108	2,283	2,213
<b>NONSURGICAL ABORTIONS</b>											
	3,572	3,078	3,088	3,761	3,993	5,018	4,983	5,108	4,198	3,731	3,550
<b>ABORTION RATIO<sup>b</sup></b>											
	<b>131.7</b>	<b>109.0</b>	<b>103.0</b>	<b>102.1</b>	<b>104.8</b>	<b>108.5</b>	<b>127.0</b>	<b>159.7</b>	<b>153.0</b>	<b>156.0</b>	<b>147.1</b>
<b>ABORTION RATE<sup>c</sup></b>											
	<b>10.0</b>	<b>8.1</b>	<b>8.2</b>	<b>8.1</b>	<b>7.8</b>	<b>7.5</b>	<b>8.8</b>	<b>10.7</b>	<b>10.2</b>	<b>10.3</b>	<b>9.8</b>

Notes: \*Cell suppressed due to count less than 6; <sup>a</sup> Multiple race data was not available for previous years (2004-2010); <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>a</sup> OF ABORTIONS BY RACE/ETHNICITY PER YEAR, ARIZONA, 2004-2014**

Race and Ethnicity	Year												
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013 <sup>e</sup>	2014		
<b>Percent of Abortions<sup>b</sup></b>													
White non-Hispanic	42.9	42.4	48.6	49.6	45.6	47.4	47.4	17.5	14.5	19.0	43.6		
Hispanic or Latino	36.5	29.8	30.1	35.5	30.1	32.9	30.9	31.4	25.9	31.6	35.3		
Black or African American	5.9	5.6	5.5	6.4	7.2	7.3	4.3	1.1	0.9	1.4	7.7		
American Indian or Alaska Native	2.8	3.4	3.3	3.0	2.9	3.0	2.0	0.4	0.3	0.5	2.3		
Asian or Pacific Islander	3.6	3.6	3.7	4.3	4.0	3.9	2.3	0.4	0.6	0.8	4.2		
Multiple races	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.7	22.7	32.1	2.8		
Unknown	8.4	15.2	8.8	1.2	10.4	5.6	13.1	16.7	35.2	14.6	4.1		
<b>Abortion Rates<sup>c</sup></b>													
White non-Hispanic	7.7	5.7	7.2	7.3	6.5	6.4	8.2	3.7	2.9	3.8	8.6		
Hispanic or Latino	12.9	8.6	8.1	9.2	7.6	8.0	8.1	10.0	7.6	9.2	10.6		
Black or African American	17.7	13.0	10.3	12.7	13.8	13.3	8.5	2.5	2.0	3.2	12.8		
American Indian or Alaska Native	5.1	5.1	4.4	3.8	3.6	3.6	3.2	0.6	0.6	0.9	3.4		
Asian or Pacific Islander	14.7	11.3	9.3	10.4	9.3	8.7	5.2	0.9	1.6	2.3	8.5		
Multiple races	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA		
Unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA		
<b>Abortion Ratio<sup>d</sup></b>													
White non-Hispanic	134	112	119	123	113	115	135	62	49	66	139		
Hispanic or Latino	110	74	70	81	73	86	100	129	102	126	134		
Black or African American	225	170	150	162	173	168	110	33	24	40	218		
American Indian or Alaska Native	56	56	54	48	47	49	38	44	7	11	57		
Asian or Pacific Islander	170	135	125	133	120	115	77	8	21	32	169		
Multiple races	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA		
Unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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 obtained by women, ages 15-44 in a given race and/or ethnic group per 1,000 live births to women in the same group; <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, 2014**

Age	Gestational Age <sup>a</sup>					
	≤13 weeks		14 to 20 weeks		≥21 or more weeks	
	Count	Percent	Count	Percent	Count	Percent
<15 yrs	19	86.4	*	**	0	0.0
15-19 yrs	1,066	86.9	142	11.6	18	1.5
20-24 yrs	3,795	90.9	327	7.8	52	1.2
25-29 yrs	3,086	92.4	220	6.6	34	1.0
30-34 yrs	1,983	92.8	136	6.4	19	0.9
35-39 yrs	1,186	91.7	101	7.8	7	0.5
≥40 yrs	506	92.8	37	6.8	*	**
<b>Totals</b>	<b>11,641</b>	<b>91.4</b>	<b>970<sup>†</sup></b>	<b>7.6</b>	<b>130<sup>†</sup></b>	<b>1.0</b>

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Totals do not add to 12,747 due to 8 unknown gestational age.

**TABLE 1D-4  
ABORTIONS BY WEEK OF GESTATION AND RACE/ETHNICITY, ARIZONA, 2014**

Week of gestation	Total	Race/ethnicity							Multiple race	Unknown race
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Multiple race	Unknown race		
<b>Total</b>	12,747	5,562	4,499	980†	290†	530†	360†	520†		
<b>6 weeks or less</b>	3,625	1,752	1,149	198	60	218	101	147		
<b>7</b>	2,782	1,198	1,017	217	54	115	70	111		
<b>8</b>	1,871	819	674	138	41	68	46	85		
<b>9</b>	1,090	442	400	109	20	39	34	46		
<b>10</b>	849	344	326	88	19	26	25	21		
<b>11</b>	670	257	253	71	20	16	20	33		
<b>12</b>	345	146	121	24	14	11	18	11		
<b>13</b>	409	151	176	33	16	6	8	19		
<b>14</b>	260†	114	85	25	12	*	6	15		
<b>15</b>	210†	85	68	27	10	*	10	8		
<b>16</b>	136	49	50	14	6	6	6	*		
<b>17</b>	140†	59	46	11	6	*	7	6		
<b>18</b>	70†	26	27	8	*	*	*	*		
<b>19</b>	80†	39	29	*	*	*	*	*		
<b>20</b>	60†	25	22	7	*	*	0	*		
<b>21+</b>	130†	53	51	6	*	7	*	6		
<b>Unknown</b>	10†	*	*	0	0	0	0	0		

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