

CHAPTER 1

REPRODUCTIVE AND PERINATAL HEALTH, ARIZONA, 2007-2017

- 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.

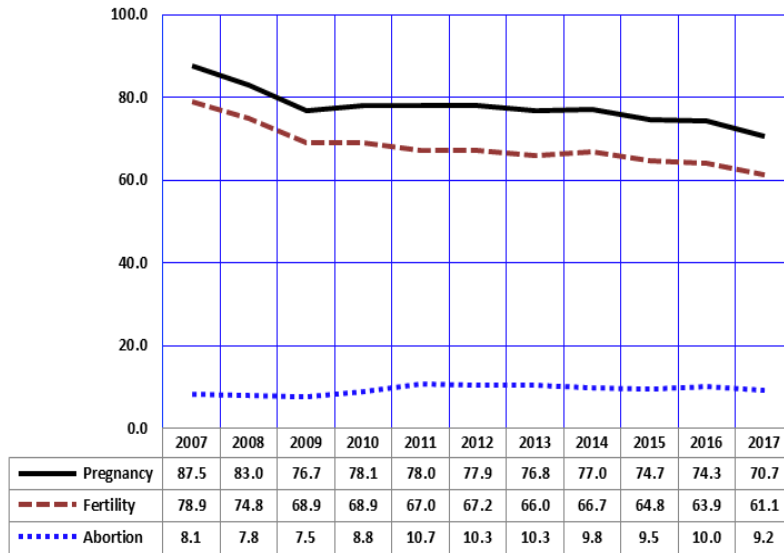
PREGNANCIES BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND AGE GROUP

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 94,481 pregnancies in Arizona in 2017 compared to 98,060 in 2016, 98,027 in 2015, and 113,756 in 2007. The number of resident live births decreased by 3.2 percent, from 84,404 in 2016 to 81,664 in 2017 (**Table 1A-1**). The number of reported abortions decreased by 6.3 percent, from 13,170 in 2016 to 12,336 in 2017. The number of reportable spontaneous fetal losses decreased 1.0 percent, from 486 in 2016 to 481 in 2017.

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

Figure 1A-1
Pregnancy, Fertility, and Abortion Rates^a by Outcome and Year among Females of Childbearing Ages (15 – 44 years), Arizona, 2007-2017



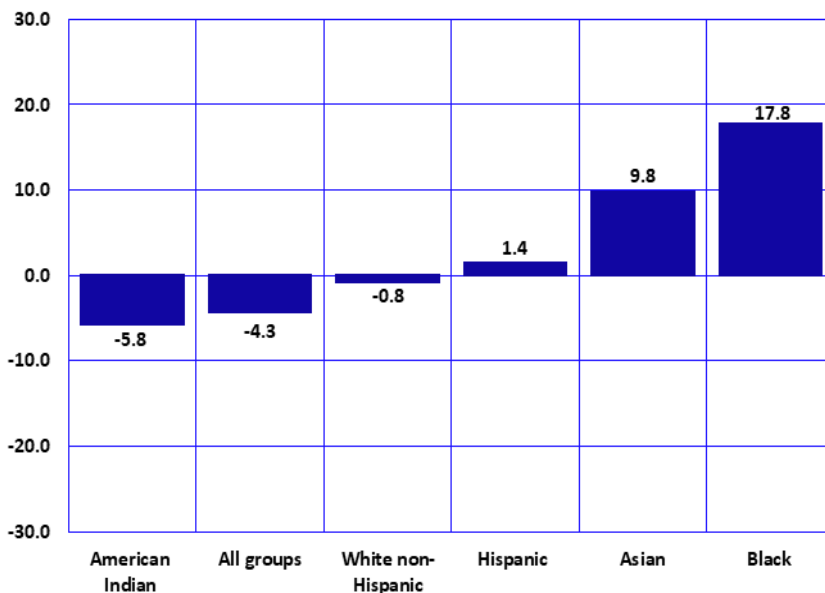
Rate is a measure of the frequency of some event (such as pregnancy, or live birth) in relation to a unit of population during a specified time period such as a year; events in the numerator of the year occur to individuals in the denominator. The pregnancy rate decreased slightly from 74.3 pregnancies per 1,000 females of childbearing age in 2016 to 70.7 pregnancies per 1,000 females of childbearing age in 2017 (**Figure 1A-1, Table 1A-1**).

The fertility rate (the number of births per 1,000 women of childbearing age) also decreased from 63.9/1,000 in 2016 to 61.1/1,000 in 2017. In 2017, the fertility rate was 22.5 percent lower than the high rate recorded in 2007.

Between 2016 and 2017, the abortion rate (the number of abortions per 1,000 women of childbearing age) decreased 8.0 percent from 10.0 to 9.2 per 1,000 women of childbearing age.

Note: ^aAll rates per 1,000 females in specified age group.

Figure 1A-2
Percent Change from 2013 to 2017 in the Number of Pregnancies by Woman's Race/Ethnicity, Arizona



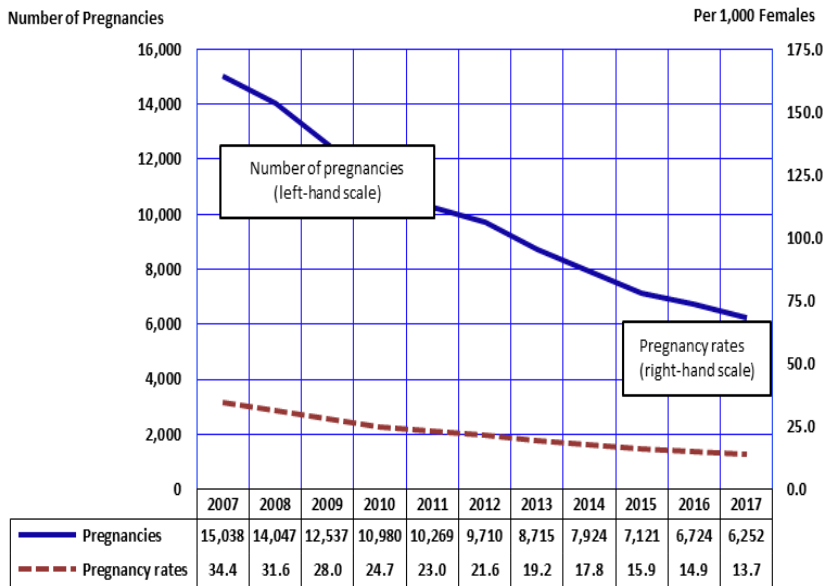
Overall, pregnancies in Arizona decreased 4.3 percent from 2013 to 2017. The changes in number of pregnancies varied by race/ethnicity. Between 2013 and 2017, while American Indian (5.8 percent) and White non-Hispanic females (0.8 percent) experienced a decrease in number of pregnancies, Black (17.8 percent), Asian (9.8 percent), and Hispanic females (1.4 percent) witnessed an increase in their pregnancy counts (**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^a
among Females 19 or Younger, Arizona, 2007-2017

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 58.4 percent from 15,038 in 2007 to 6,252 in 2017 (Figure 1A-3). The teen pregnancy rate declined even more, by 60.0 percent, from 34.4 pregnancies per 1,000 females 10-19 years in 2007 to 13.7 per 1,000 females in 2017. The number of teenage pregnancies and the teen pregnancy rate of 2017 were the lowest recorded since at least 1980.

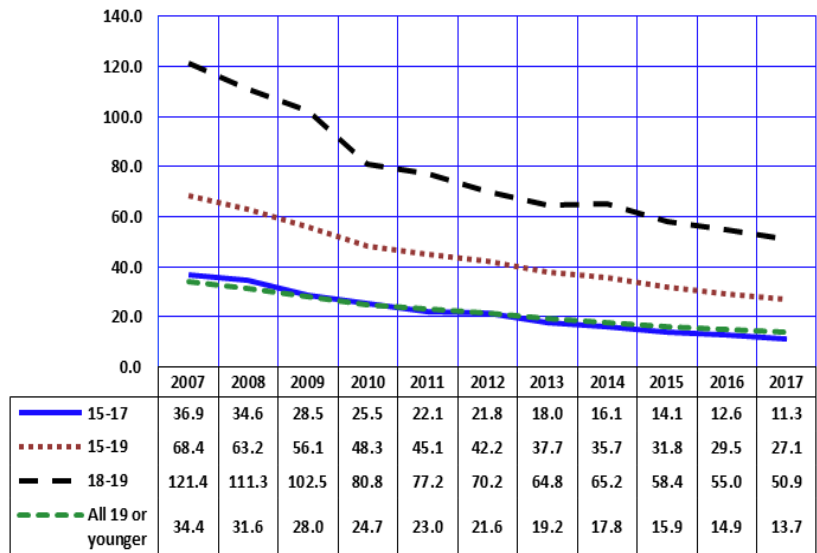


Note: ^a Pregnancy rate is the number of pregnancies per 1,000 females in specified age group.

Figure 1A-4
Pregnancy Rates^a by Age Group and Year among Females
19 or Younger, Arizona, 2007-2017

The pregnancy rate for Arizona teenagers 15-19 years old in 2017 was 27.1 pregnancies per 1,000 females (Figure 1A-4, Table 5A-2), 8.2 percent lower than 2016 and 60.4 percent lower than in 2007. The pregnancy rate for younger teenagers 15-17 years old declined by 69.4 percent (Table 1A-3) from 36.9/1,000 in 2007 to 11.3/1,000 in 2017. The pregnancy rate for older teenagers 18-19 years old declined by 58.0 percent from 121.4/1,000 in 2007 to 50.9/1,000 in 2017 (Table 1A-4).

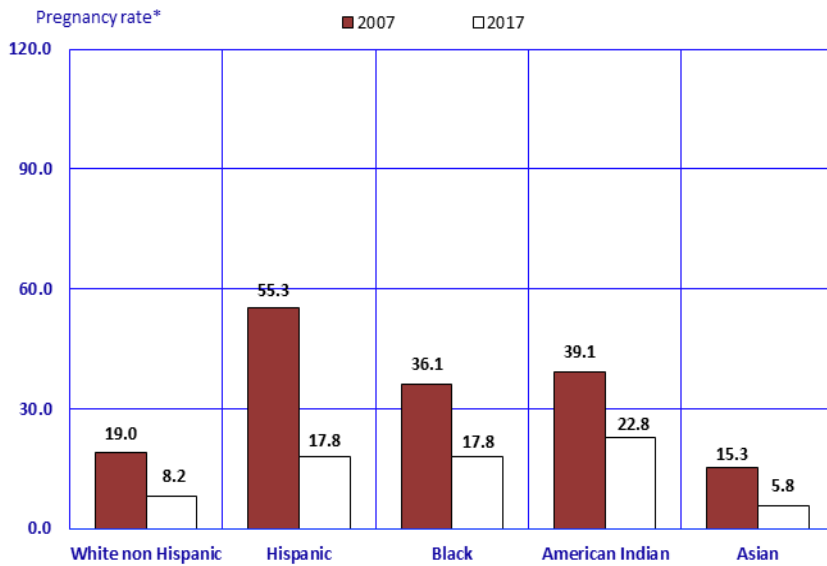
County-level information about teen pregnancies and pregnancy rates is provided in Table 5A-2, Table 5A-3, and Table 5A-5. Pregnancy statistics for Arizona are not available on a sub-county level.



Note: ^a 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^a by Race/Ethnicity and Year among
Females 19 or Younger in Arizona, 2007 and 2017



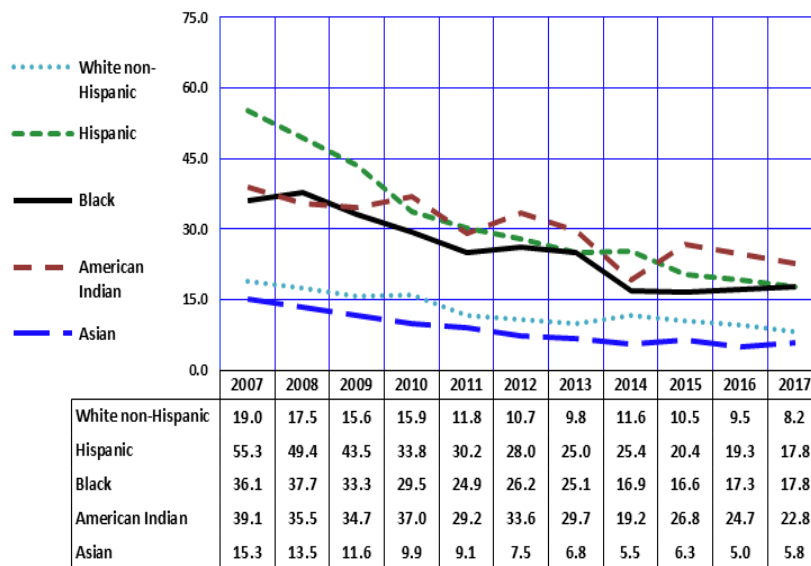
Teen pregnancy rates differ by race/ethnicity.

Between 2007 and 2017, 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 Hispanic females, who experienced a 67.8 percent drop from 2007 to 2017. The Asian teenage pregnancy rate decreased greatly also, by 62.1 percent from 15.3 in 2007 to 5.8 in 2017.

The changes in annual teen pregnancy rates from 2007 to 2017 are shown in detail below.

Note: ^a All rates per 1,000 females in specified age group.

Figure 1A-6
Pregnancy Rates^a by Race/Ethnicity and Year among Females
19 or Younger, Arizona, 2007-2017



The teen pregnancy rates for all racial/ethnic groups were lower in 2017 than in 2007 (Figure 1A-6). Compared to 2017, the teen pregnancy rate decreased for all racial/ethnic groups, but more so among Hispanics and Asians than the remaining groups.

From 2016 to 2017, teenage pregnancy rates decreased 13.7 percent for White non-Hispanic females, 7.8 percent among American Indian and 7.6 percent for Hispanic females, while the rate increased 15.3 percent for Asian and 2.9 percent for Black females.

Note: ^a All rates per 1,000 females in specified age group.

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

In 2017, Hispanic females accounted for approximately 43.3 percent of all females 10-19 years old in Arizona. As in the past, they accounted for a large percentage of teen pregnancies (56.2 percent) and live births (59.0 percent; **Figure 1A-7**). In contrast, White non-Hispanic females made up 42.5 percent of all females 10-19 years old in Arizona, but had a lower proportional contribution to teen pregnancies (25.2 percent) and live births (23.1 percent). Note: percentages are based on the number of pregnancies and births in **Table 1A-5**.

Figure 1A-7
Proportional Contribution by Race/Ethnicity to Pregnancies and Live Births among Females 19 or Younger, Arizona, 2017

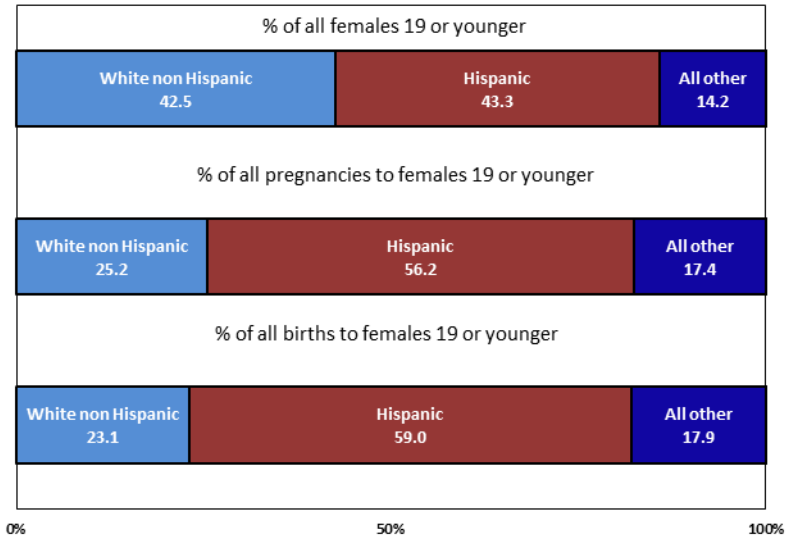
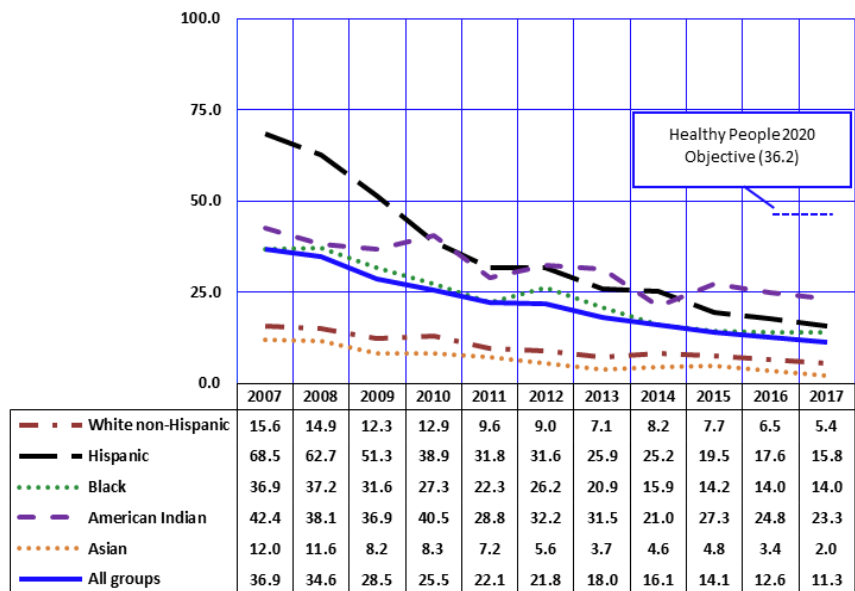


Figure 1A-8
Pregnancy Rates^a by Race/Ethnicity and Year among Females 15-17 Years: 2007-2017 and the "Healthy Arizona 2020" Objective

In 2017, the pregnancy rate of 11.3 pregnancies per 1,000 adolescent females 15-17 years old in Arizona was 68.8 percent lower than the **Healthy People 2020** objective of 36.2/1,000 (**Figure 1A-8**, **Table 1A-3**). The 2017 pregnancy rate among Asians age 15-17 was 94.5 percent than the objective and among White non-Hispanics 85.1 percent 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.



Note: ^a All rates per 1,000 females in specified age group.

**TABLE 1A-1
NUMBER OF PREGNANCIES^a BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR WITH RATES^b, ARIZONA, 2007-2017**

Race/ethnicity Pregnancy outcome	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2017 Rates
WHITE^c NON-HISPANIC, total:	47,633	46,860	44,737	44,174	40,871	40,769	40,982	45,864	43,758	43,287	40,654	63.4
Births	42,216	41,925	39,781	38,777	38,294	38,670	38,220	40,097	38,180	37,762	35,685	55.6
Abortions	5,202	4,737	4,759	5,241	2,385	1,904	2,515	5,562	5,378	5,321	4,762	7.4
Fetal deaths	215	198	197	156	192	195	247	205	200	204	207	0.3
HISPANIC OR LATINO, total:	49,717	45,997	41,869	37,953	36,853	36,720	37,469	38,396	38,841	38,892	38,001	76.4
Births	45,731	42,639	38,362	34,333	32,398	33,146	33,075	33,715	34,264	33,874	33,191	66.7
Abortions	3,719	3,124	3,303	3,422	4,274	3,393	4,189	4,499	4,350	4,823	4,639	9.3
Fetal deaths	267	234	204	198	181	181	205	182	227	195	171	0.3
BLACK OR AFRICAN AMERICAN^d, total:	4,884	5,089	5,166	4,843	4,538	4,867	4,955	5,551	5,485	5,688	5,838	82.9
Births	4,165	4,301	4,378	4,328	4,366	4,715	4,726	4,522	4,361	4,388	4,595	65.3
Abortions	675	744	736	476	145	116	189	981	1,074	1,253	1,196	17.0
Fetal deaths	44	44	52	39	27	36	40	48	50	47	47	0.7
AMERICAN INDIAN OR ALASKA NATIVE^e, total:	6,757	6,706	6,516	6,063	5,921	5,650	5,577	5,483	5,355	5,406	5,254	79.2
Births	6,408	6,362	6,170	5,815	5,830	5,569	5,476	5,145	4,984	5,030	4,866	73.4
Abortions	310	297	300	218	48	38	61	291	331	340	348	5.2
Fetal deaths	39	47	46	30	43	43	40	47	40	36	40	0.6
ASIAN OR PACIFIC ISLANDER^f, total:	3,883	3,856	3,797	3,564	3,579	3,715	3,589	3,720	3,774	3,960 [†]	3,941	65.2
Births	3,412	3,425	3,396	3,293	3,505	3,625	3,466	3,169	3,235	3,350	3,327	55.1
Abortions	454	412	390	254	47	75	110	534	532	608	598	9.9
Fetal deaths	17	19	11	17	27	15	13	17	7	*	16	0.3
ALL RACIAL/ETHNIC GROUPS^d, total:	113,756	110,155	103,172	98,548	99,266	99,324	98,762	99,914	98,027	98,060	94,481	70.7
Births	102,687	99,215	92,616	87,053	85,190	85,725	84,963	86,648	85,024	84,404	81,664	61.1
Abortions	10,486	10,396	10,045	11,059	13,606	13,129	13,254	12,747	12,479	13,170	12,336	9.2
Fetal deaths	583	544	511	443	470	470	545	519	524	486	481	0.4
Pregnancy rate, total:	87.5	83.0	76.7	78.1	78.0	77.9	76.8	77.0	74.7	74.3	70.7	
Fertility rate^g	78.9	74.8	68.9	68.9	67.0	67.2	66.0	66.7	64.8	63.9	61.1	
Abortion rate	8.1	7.8	7.5	8.8	10.7	10.3	10.3	9.8	9.5	10.0	9.2	

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; ^a 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); ^b All rates per 1,000 females of childbearing age (15-44 years); ^c Not of Hispanic origin; ^d Includes other and unspecified ethnicity; ^e Number of births per 1,000 females of childbearing age.

**TABLE 1A-2
NUMBER OF PREGNANCIES^a BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES AGED 17
AND YOUNGER WITH RATES^b, ARIZONA, 2007-2017**

Race/ethnicity Pregnancy outcome	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2017 Rates
WHITE^c NON-HISPANIC, total:	1,165	1,074	894	770	600	564	448	496	462	401	327	2.1
Births	805	784	669	553	507	483	373	352	344	291	225	1.5
Abortions	353	287	218	214	90	71	72	140	117	107	100	0.7
HISPANIC OR LATINO, total:	3,286	3,057	2,496	2,106	1,731	1,728	1,443	1,292	1,144	1,055	976	6.1
Births	3,007	2,835	2,340	1,927	1,528	1,574	1,291	1,138	1,000	909	837	5.3
Abortions	254	207	144	167	196	150	142	141	131	139	136	0.9
BLACK OR AFRICAN AMERICAN, total:	268	266	221	189	170†	174	140	145	106	111	111	5.5
Births	207	215	187	161	162	164	128	107	78	84	76	3.8
Abortions	55	48	31	25	*	9	9	36	27	27	34	1.7
AMERICAN INDIAN OR ALASKA NATIVE, total:	504	452	436	361	310†	260†	260†	217	204	191	180†	9.2
Births	471	430	411	345	307	258	251	205	184	178	171	8.9
Abortions	30	19	22	15	*	*	*	7	17	13	*	**
ASIAN OR PACIFIC ISLANDER, total:	43	41	30	30†	30†	20†	20†	25	20†	20†	10†	0.8
Births	31	27	20	24	28	18	13	14	17	12	7	0.6
Abortions	12	14	9	*	*	*	*	11	*	*	*	**
ALL RACIAL/ETHNIC GROUPS^d, total:	5,300	4,970	4,101	3,513	3,089	2,976	2,476	2,193	1,953	1,792	1,619	4.4
Births	4,541	4,312	3,633	3,015	2,548	2,497	2,056	1,816	1,623	1,474	1,316	3.6
Abortions	718	634	442	479	527	463	402	352	312	308	296	0.8
Pregnancy rate, total:	14.8	13.7	11.2	10.0	8.7	8.4	6.9	6.1	5.4	5.0	4.4	
Fertility rate^e	12.7	11.9	9.9	8.6	7.2	7.1	5.8	5.1	4.5	4.1	3.6	
Abortion rate	2.0	1.7	1.2	1.4	1.5	1.3	1.1	1.0	0.9	0.9	0.8	

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 added less than 6; ^a Fetal deaths are included in the total counts of pregnancies; ^b All rates per 1,000 females 10-17 years old; ^c Not of Hispanic origin; ^d Includes other and unspecified ethnicity; ^e Number of births per 1,000 females 10-17 years old.

**TABLE 1A-3
NUMBER OF PREGNANCIES^a BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES 15-17 YEARS OLD
WITH RATES^b, ARIZONA, 2007-2017**

Race/ethnicity Pregnancy outcome	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2017 Rates
WHITE^c NON-HISPANIC, total:	1,067	1,038	863	742	577	549	434	481	451	382	319	5.4
Births	779	769	649	541	494	475	365	344	339	283	224	3.8
Abortions	282	266	207	198	80	65	66	133	111	96	93	1.6
HISPANIC OR LATINO, total:	3,126	2,911	2,401	2,021	1,653	1,670	1,390	1,262	1,103	1,015	936	15.8
Births	2,892	2,724	2,253	1,859	1,467	1,528	1,244	1,115	972	877	816	13.8
Abortions	210	173	136	151	179	138	136	134	118	131	117	2.0
BLACK OR AFRICAN AMERICAN, total:	242	248	212	178	160†	166	133	138	103	104	105	14.0
Births	195	203	181	151	152	159	122	102	77	81	71	9.5
Abortions	42	43	28	24	*	6	8	34	25	23	33	4.4
AMERICAN INDIAN OR ALASKA NATIVE, total:	470	428	419	345	300†	250†	250†	210†	193	178	170†	23.3
Births	445	408	394	331	293	251	243	196	177	167	163	22.7
Abortions	22	17	22	13	*	*	*	*	13	11	*	**
ASIAN OR PACIFIC ISLANDER, total:	39	38	30†	30†	26	20†	10†	23	20†	20†	10†	2.0
Births	31	26	18	23	26	17	11	13	17	12	6	1.3
Abortions	8	12	*	*	0	*	*	10	*	*	*	**
ALL RACIAL/ETHNIC GROUPS^d, total:	4,975	4,740	3,945	3,363	2,939	2,860	2,385	2,125	1,887	1,707	1,554	11.3
Births	4,361	4,151	3,501	2,910	2,447	2,430	1,985	1,770	1,582	1,420	1,280	9.3
Abortions	576	567	418	435	478	414	382	330	287	277	267	1.9
Pregnancy rate, total:	36.9	34.6	28.5	25.5	22.1	21.8	18.0	16.1	14.1	12.6	11.3	
Fertility rate^e	32.3	30.3	25.3	22.1	18.4	18.5	15.0	13.4	11.8	10.5	9.3	
Abortion rate	4.3	4.1	3.0	3.3	3.6	3.1	2.9	2.5	2.1	2.0	1.9	

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; ^a Fetal deaths are included in the total counts of pregnancies; ^b All rates per 1,000 females 15-17 years old; ^c Not of Hispanic origin; ^d Includes other and unspecified ethnicity; ^e Number of births per 1,000 females 15-17 years old.

**TABLE 1A-4
NUMBER OF PREGNANCIES^a BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES 18-19 YEARS OLD
WITH RATES^b, ARIZONA, 2007-2017**

Race/ethnicity Pregnancy outcome	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2017 Rates
WHITE^c NON-HISPANIC, total:	2,936	2,778	2,560	2,316	1,792	1,675	1,602	1,759	1,562	1,433	1,248	31.5
Births	2,295	2,209	2,046	1,833	1,582	1,494	1,408	1,405	1,187	1,056	939	23.7
Abortions	629	554	502	480	199	167	185	348	371	369	300	7.6
HISPANIC OR LATINO, total:	5,259	4,707	4,400	3,812	3,566	3,357	3,175	3,078	2,764	2,668	2,537	66.5
Births	4,775	4,333	4,001	3,421	3,103	3,053	2,789	2,675	2,409	2,227	2,137	56.0
Abortions	456	354	381	365	442	291	367	390	336	425	390	10.2
BLACK OR AFRICAN AMERICAN, total:	498	546	501	446	413	390 [†]	397	345	294	320	339	64.9
Births	414	441	416	401	399	380	379	287	234	232	253	48.4
Abortions	81	95	79	42	13	*	14	54	58	86	83	15.9
AMERICAN INDIAN OR ALASKA NATIVE, total:	849	794	793	664	690 [†]	640 [†]	530 [†]	417	423	388	369	78.9
Births	814	755	759	643	680	632	524	397	385	362	348	74.4
Abortions	33	35	30	21	*	*	*	18	34	25	18	3.8
ASIAN OR PACIFIC ISLANDER, total:	124	108	99	88	90 [†]	68	70 [†]	67	72	61	79	24.2
Births	72	86	68	79	83	61	66	43	46	39	48	14.7
Abortions	51	22	31	9	*	7	*	24	25	22	31	9.5
ALL RACIAL/ETHNIC GROUPS^d, total:	9,738	9,077	8,436	7,467	7,180	6,734	6,239	5,731	5,168	4,932	4,633	50.9
Births	8,431	7,849	7,319	6,401	5,887	5,620	5,166	4,807	4,261	3,916	3,725	41.0
Abortions	1,261	1,179	1,077	1,033	1,258	1,077	1,039	897	877	989	883	9.7
Pregnancy rate, total:	121.4	111.3	102.5	80.8	77.2	70.2	64.8	65.2	58.4	55.0	50.9	
Fertility rate^e	105.1	96.3	89.0	69.2	63.3	58.6	53.6	54.7	48.2	43.7	41.0	
Abortion rate	15.7	14.5	13.1	11.2	13.5	11.2	10.8	10.2	9.9	11.0	9.7	

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 Fetal deaths are included in the total count of pregnancies; ^b All rates per 1,000 females 18-19 years old; ^c Not of Hispanic origin; ^d Includes other and unspecified ethnicity; ^e Number of births per 1,000 females 18-19 years old.

**TABLE 1A-5
NUMBER OF PREGNANCIES^a BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES 19 AND YOUNGER,
WITH RATES^b, ARIZONA, 2007-2017**

Race/ethnicity Pregnancy outcome	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2017 Rates
WHITE^c NON-HISPANIC, total:	4,101	3,852	3,454	3,086	2,392	2,239	2,050	2,255	2,024	1,834	1,575	8.2
Births	3,100	2,993	2,715	2,386	2,089	1,977	1,781	1,757	1,531	1,347	1,164	6.0
Abortions	982	841	720	694	289	238	257	488	488	476	400	2.1
HISPANIC OR LATINO, total:	8,545	7,764	6,896	5,918	5,297	5,085	4,618	4,370	3,908	3,723	3,513	17.8
Births	7,782	7,168	6,341	5,348	4,631	4,627	4,080	3,813	3,409	3,136	2,974	15.1
Abortions	710	561	525	532	638	441	509	531	467	564	526	2.7
BLACK OR AFRICAN AMERICAN, total:	766	812	722	635	580	562	537	490	400	431	450	17.8
Births	621	656	603	562	561	544	507	394	312	316	329	13.0
Abortions	136	143	110	67	17	14	23	90	85	113	117	4.6
AMERICAN INDIAN OR ALASKA NATIVE, total:	1,353	1,246	1,229	1,025	1,000 [†]	900 [†]	787	634	627	579	546	22.8
Births	1,285	1,185	1,170	988	987	890	775	602	569	540	519	21.6
Abortions	63	54	52	36	*	*	8	25	51	38	23	1.0
ASIAN OR PACIFIC ISLANDER, total:	167	149	129	117	120 [†]	88	80 [†]	92	92	77	89	5.8
Births	103	113	88	103	111	79	79	57	63	51	55	3.6
Abortions	63	36	40	14	*	9	*	35	28	26	34	2.2
ALL RACIAL/ETHNIC GROUPS^d, total:	15,038	14,047	12,537	10,980	10,269	9,710	8,715	7,924	7,121	6,724	6,252	13.7
Births	12,972	12,161	10,952	9,416	8,435	8,117	7,222	6,623	5,884	5,390	5,041	11.1
Abortions	1,979	1,813	1,519	1,512	1,785	1,539	1,441	1,249	1,189	1,297	1,179	2.6
Pregnancy rate, total:	34.4	31.6	28.0	24.7	23.0	21.6	19.2	17.8	15.9	14.9	13.7	
Fertility rate^e	29.7	27.4	24.4	21.2	18.9	18.0	15.9	14.9	13.1	12.0	11.1	
Abortion rate	4.5	4.1	3.4	3.4	4.0	3.4	3.2	2.8	2.7	2.9	2.6	

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; ^a Fetal deaths are included in the total counts of pregnancies; ^b All rates per 1,000 females 19 or younger; ^c Not of Hispanic origin; ^d Includes other and unspecified ethnicity; ^e Number of births per 1,000 females 19 or younger.

**TABLE 1A-6
NUMBER OF PREGNANCIES^a BY PREGNANCY OUTCOME, AGE GROUP, AND RACE/ETHNICITY, ARIZONA, 2017
PREGNANCIES BY OUTCOME:**

	All ages	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un- known
All groups											
Total pregnancies	94,481	65	1,554	4,633	22,347	28,303	22,971	11,690	2,635	270†	10†
Births	81,664	36	1,280	3,725	18,447	24,736	20,747	10,262	2,193	235	*
Abortions^b	12,336	29	267	883	3,796	3,449	2,099	1,353	424	36	0
Fetal deaths	480†	0	7	25	104	118	125	75	18	*	6
White non Hispanic											
Total pregnancies	40,654	10†	320†	1,248	7,783	12,410	11,703	5,812	1,202	160†	0†
Births	35,690†	*	224	939	6,414	10,983	10,779	5,193	1,004	145	*
Abortions^b	4,762	7	93	300	1,338	1,369	865	583	191	16	0
Fetal deaths	210†	0	*	9	32	58	59	36	7	*	*
Hispanic or Latino											
Total pregnancies	38,001	40	940†	2,537	10,933	11,169	7,485	3,910	924	62	10†
Births	33,191	21	816	2,137	9,283	9,887	6,716	3,482	795	54	0
Abortions^b	4,639	19	117	390	1,601	1,245	731	406	122	8	0
Fetal deaths	170†	0	*	10	49	37	38	22	7	0	*
Black or African American											
Total pregnancies	5,838	10†	110†	340†	1,506	1,782	1,271	642	170†	20†	0
Births	4,600†	*	71	253	1,131	1,432	1,058	505	126	14	0
Abortions^b	1,200†	*	33	83	364	339	204	128	40	*	0
Fetal deaths	50†	0	*	*	11	11	9	9	*	0	0
American Indian or Alaska Native											
Total pregnancies	5,250†	10†	170†	370†	1,459	1,618	1,011	497	121	0†	0
Births	4,870†	8	163	348	1,334	1,505	937	459	110	*	0
Abortions^b	350†	*	*	18	115	104	64	31	11	0	0
Fetal deaths	40†	0	*	*	10	9	10	7	0	0	0
Asian or Pacific Islander											
Total pregnancies	3,940†	0†	10†	79	430†	1,090†	1,376	740†	190†	30†	0
Births	3,330†	*	6	48	285	929	1,257	623	158	20	0
Abortions^b	600†	0	*	31	144	161	110	111	33	*	0
Fetal deaths	20†	0	0	0	*	*	9	*	*	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; ^a The sum of recorded live births, spontaneous fetal losses and abortions; ^b Abortions include unknown or multiple race.

**TABLE 1A-7
PREGNANCY RATES^a AND NUMBER OF LIVE BIRTHS, FETAL DEATHS, AND
ABORTIONS TO TEENS BY INDIVIDUAL AGE, ARIZONA, 2017**

Age	Population	PREGNANCIES BY OUTCOME			TOTAL PREGNANCIES	
		Live births	Abortions	Spontaneous fetal losses	Number	Rate
10	45,913	0	0	0	0	0.0
11	45,779	0	*	0	*	**
12	44,602	0	*	0	*	**
13	45,272	6	*	0	7	0.2
14	44,765	30	22	0	52	1.2
10-14	226,331	36	29	0	65	0.3
15	45,798	148	51	*	201	4.4
16	46,475	389	72	*	463	10.0
17	45,353	743	144	*	890	19.6
15-17	137,626	1,280	267	7	1,554	11.3
18	45,770	1,417	361	12	1,790	39.1
19	45,187	2,308	522	13	2,843	62.9
18-19	90,957	3,725	883	25	4,633	50.9
Total 10-19	454,914	5,041	1,180†	30†	6,250†	13.7

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; ^a Rates per 1,000 female population in specific group.



1B.

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

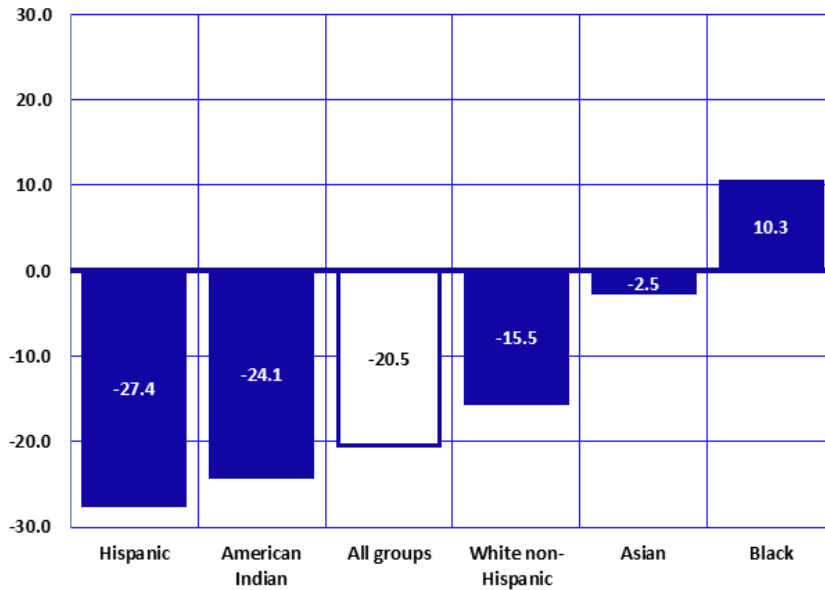
The number of resident births reached its recent peak in 2007 at 102,687 (**Table 1B-2**). In 2008, the number of resident births declined to 99,215; the first annual decline since 1991 (which, like 2008, also was an economic downturn year). Since 2008, the number of births declined until 2013, reaching a low of 84,963 resident births, the lowest number of births recorded in Arizona since 1999 (80,505). In 2017, there were 81,664 resident births, representing a reduction from the 84,404 births that occurred in 2016.

There were striking differences in how the number of births changed from 2007 to 2017 by mother's race/ethnicity. Compared to 2007, the number of births for all combined racial/ethnic groups was 20.5 percent lower in 2017, although the number of births rose by 10.3 percent for Black or African American mothers. Hispanic or Latino women experienced a decrease of 27.4 percent during this period (**Figure 1B-1**).

Since the 2008 edition of this report, we have been pointing out that Hispanics, unlike any other racial/ethnic group in the State were hit the hardest by the recession, which may explain the decline in their birth rate. However, it is important to note that the decline in births to Hispanic or Latino mothers started before the recession, then accelerated during the recession and even as the economy was recovering. Meanwhile, the estimated number of Hispanic women of childbearing age (15–44 years) has increased from 405,306 in 2007 to 497,456 in 2017. Hence, the decrease in Hispanic births may only be attributed in part to the unfavorable economic conditions of this group, and to a large extent to changes in childbearing behaviors, as more Hispanic women are delaying motherhood.

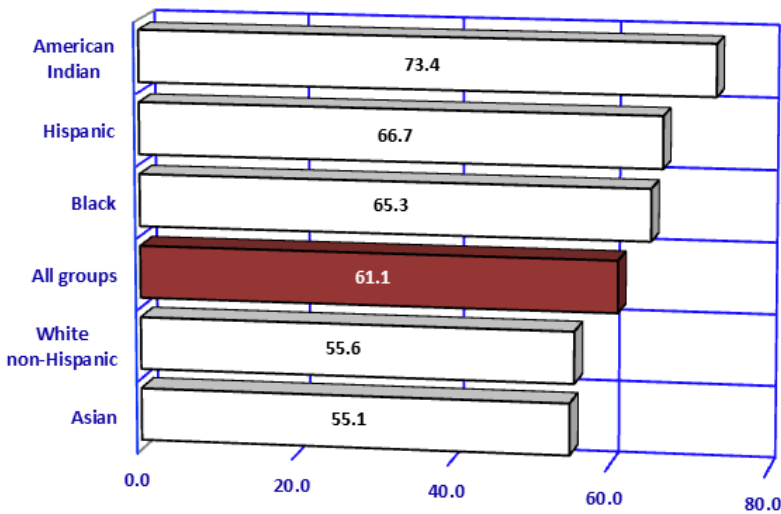
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-1
Percent Change from 2007 to 2017 in the Number of Resident Live Births by
Mother's Race/Ethnicity, Arizona



From 2007 to 2017, the number of resident live births declined by 20.5 percent (**Figure 1B-1**). All racial/ethnic groups experienced a decrease in the number of live births, with the exception of Blacks. The magnitude of the reduction in the number of births was the largest among Hispanics or Latinos (-27.4 percent) and American Indians (-24.1 percent).

Figure 1B-2
General Fertility Rates^a by Race/Ethnicity among Females of all Ages,
Arizona, 2017



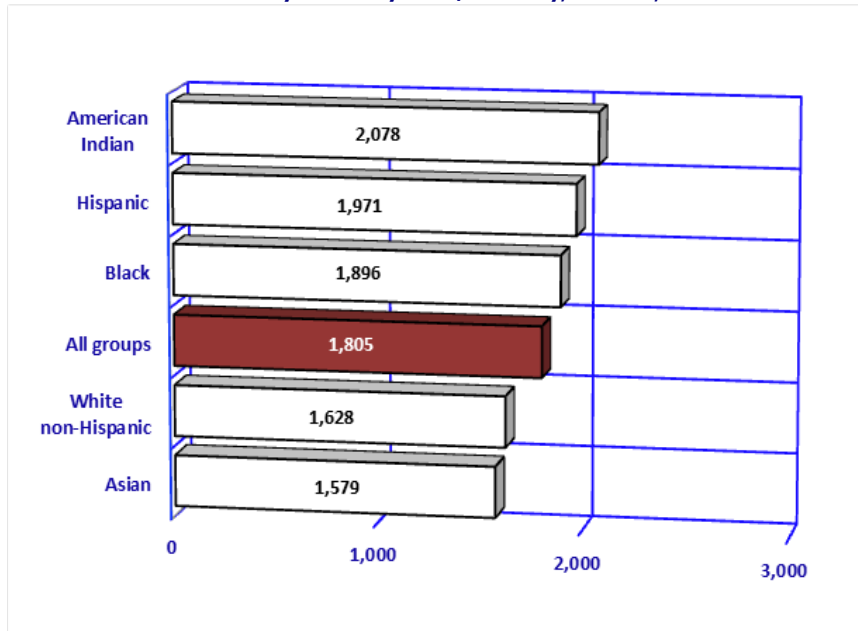
From among 1,336,057 women of childbearing age (15-44 years), 6.0 percent gave birth in 2017. The *general fertility rate* (the number of births per 1,000 women 15-44 years old; GFR) was the highest for American Indian followed by Hispanic females, and Black females. The GFR for Asian females was the lowest of all racial/ethnic groups.

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

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

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

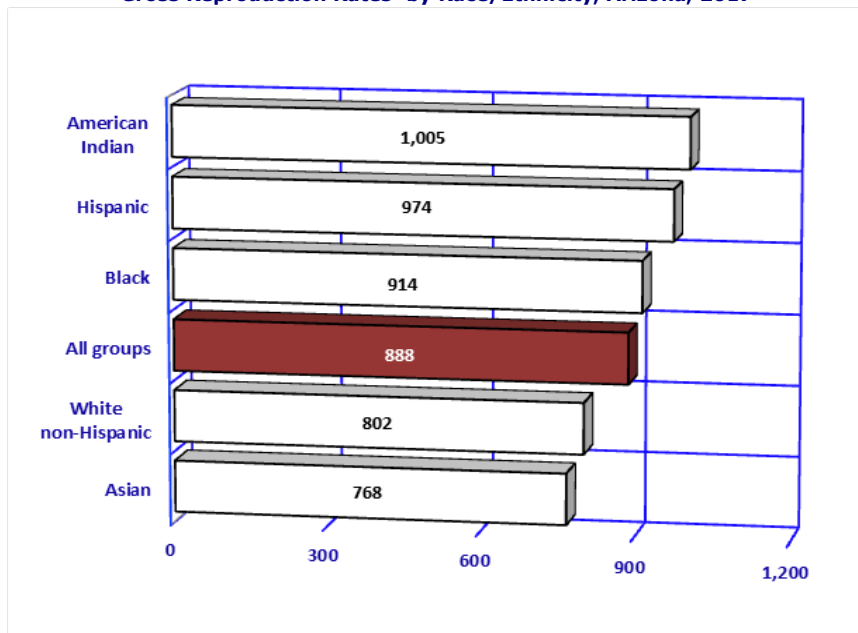
Figure 1B-3
Total Fertility Rates^a by Race/Ethnicity, Arizona, 2017



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 1,805 in 2017. In 2017, The TFR for American Indian women (2,078) fell below the generation replacement rate by 1.5 percent. The rate for Asian women (1,579), -the lowest of all groups- was 25.2 percent lower than the replacement rate.

Notes: ^a The sum of age group-specific birth rates multiplied by five (the number of years in the age group). The rate of 1,805 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 2017, they would have a total of 1,805 children (or 1.8 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^a by Race/Ethnicity, Arizona, 2017

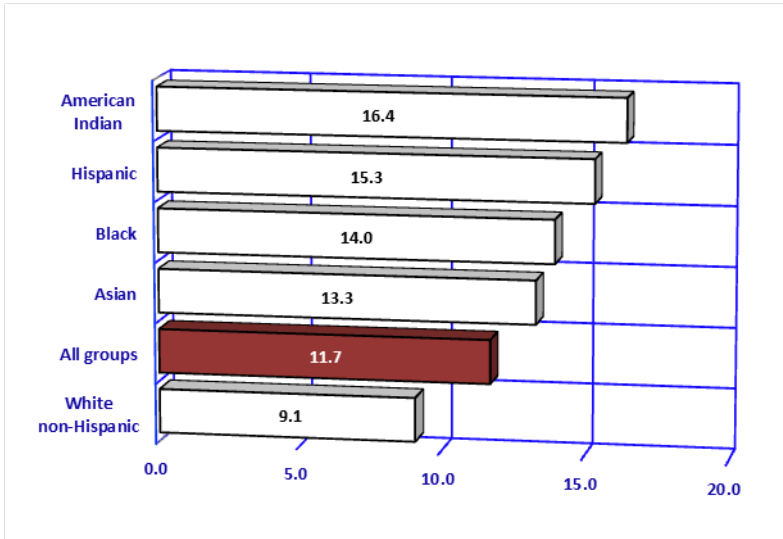


Another measure used to summarize reproduction patterns is the *gross reproduction rate* (GRR). It represents the average number of daughters born to a hypothetical cohort of 1,000 women if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. This 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 2017, the gross reproduction rates in Arizona ranged from 768 for Asian women to 1,005 for American Indian women (**Figure 1B-4, Table 1B-1**).

Notes: ^a 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^a by Race/Ethnicity, Arizona, 2017



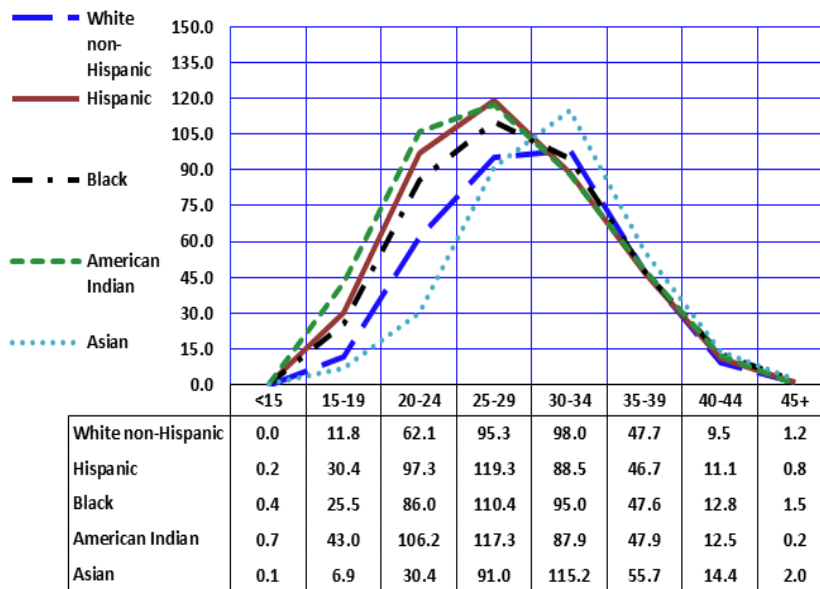
The crude birth rate, often simply called the birth rate, relates the number of births to the total population in a specified group. The birth rate is expressed as the total number of births per 1,000 persons, without regard to the age or sex distribution of the population.

The birth rate for Arizona decreased from 12.3 in 2016 to 11.7 in 2017.

In 2017, the crude birth rates by mother's race/ethnicity ranged from 9.1 births per 1,000 White non-Hispanics to 16.4 per 1,000 American Indians (**Figure 1B-5**).

Note: ^a Number of births per 1,000 population in specified group.

Figure 1B-6
Birth Rates^a by Mother's Age Group and Race/Ethnicity, Arizona, 2017



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 2017, American Indian and Hispanic women had the highest birth rates for women under the age of 25 years. The birth rates for women between the ages of 30-34 and 35-39 were the highest among Asian women. In general, Hispanic, Black, and American Indian women tend to give birth at younger ages than Asian and non-Hispanic White women.

Note: ^a Number of births per 1,000 females in specified group.

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

Figure 1B-7
Percent of Births to Unmarried Mothers by Age Group, Arizona, 2017

Unmarried mothers have accounted for an increasing annual proportion of births throughout the 1980s and 1990s, with 44.8 percent in 2016 (Table 1B-2). In 2017, 36,298 infants were born to unmarried mothers compared to 46,195 in 2007. It is important to note that beginning 2015, divorced mothers have been included in the proportion of unmarried mothers; therefore caution should be exercised in comparing data for this year to those of the previous years.

A decade ago, the proportion of births among unmarried women aged 20-24 years was 60.3 percent, while in 2017, approximately 66 percent of mothers 20-24 years old were unmarried (Figure 1B-7).

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

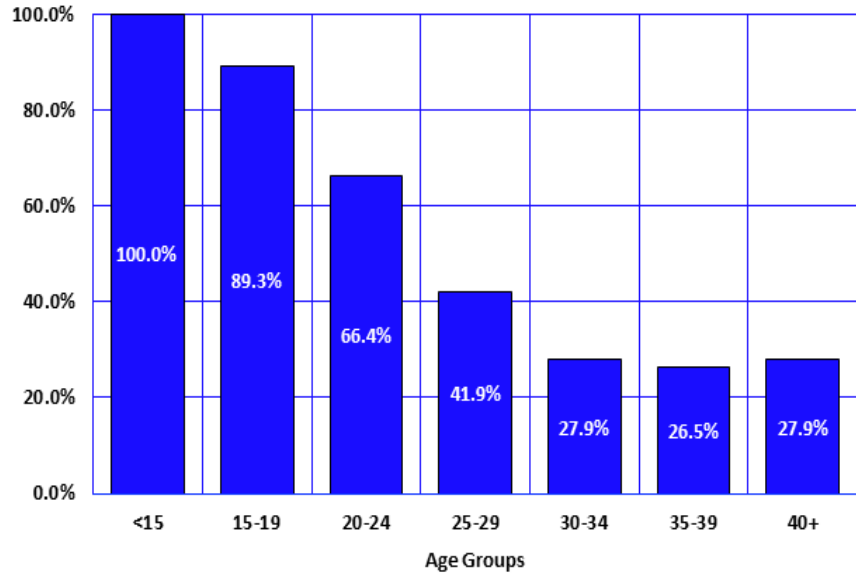
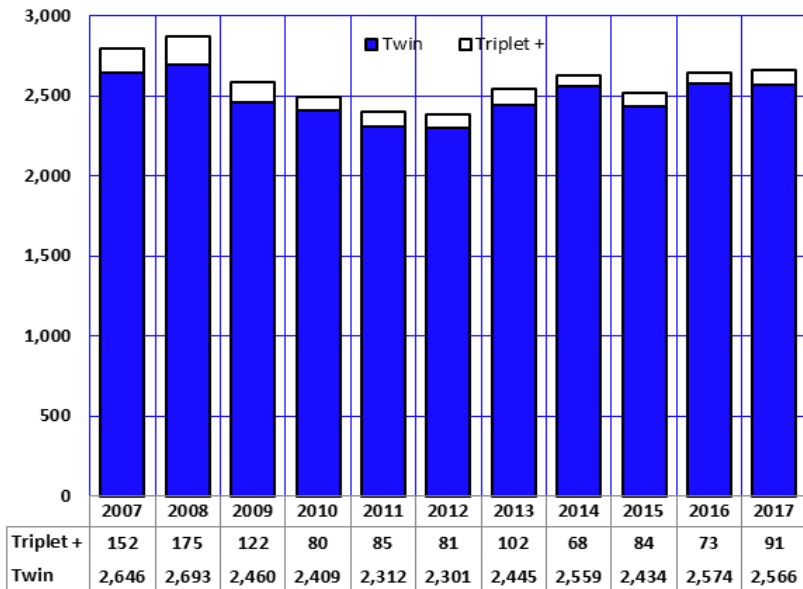


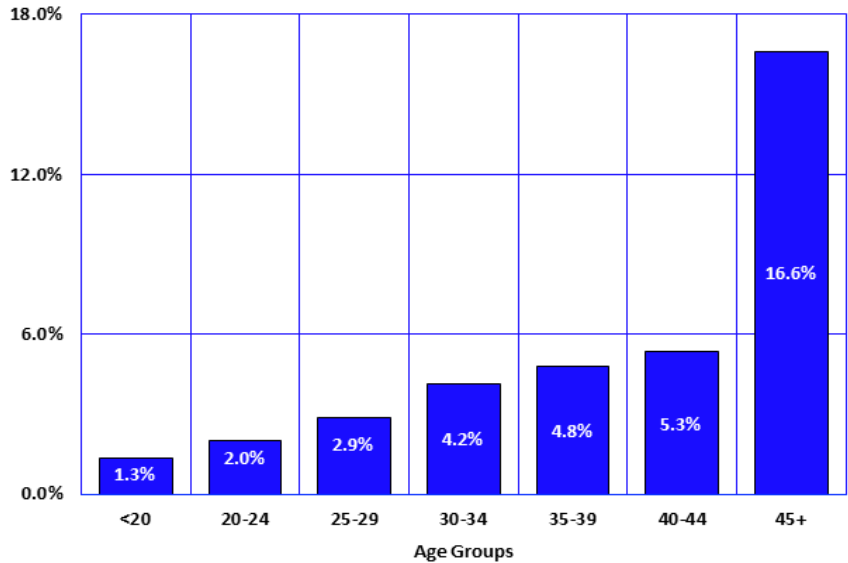
Figure 1B-8
Number of Births in Twin and Triplet+ Deliveries by Year, Arizona, 2007-2017

The number of multiple birth events in Arizona declined from 2,868 in 2008, (the highest number ever recorded) to 2,657 in 2017 (Figure 1B-8). The number of babies born in twin deliveries decreased from 2,693 in 2008 to 2,566 in 2017 (Figure 1B-8). The number of triplets and higher order multiple birth events decreased by 48.0 percent from 175 in 2008 to 91 in 2017.



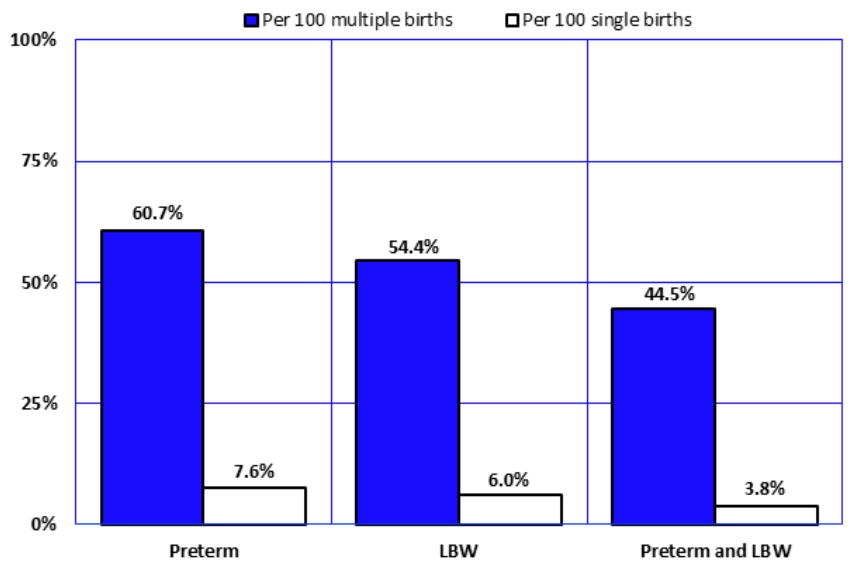
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-9
Multiple Births by Mother's Age Group, Arizona, 2017



In 2017, 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, 16.6 percent of all births were twins, triplets, or quadruplets (**Figure 1B-9**). The percent of all births that were multiple births to women age 45 and over increased from 15.8 percent in 2016 to 16.6 percent in 2017. Ongoing monitoring of multiple births among older mothers will help better understand the recent variation that has been found in this measure.

Figure 1B-10
Infants Born too Early (Preterm)^a and Infants Born too Small (LBW)^b among Multiple and Single Births, Arizona, 2017



Infants born in multiple deliveries tend to be born at shorter gestation age and with low birth weight than those born in singleton deliveries (**Figure 1B-10**). In 2017, infants born in multiple deliveries were 11.7 times more likely (44.5 vs. 3.8 percent) to be born earlier than expected (at less than 37 completed weeks of gestation) and smaller (at less than 2,500 grams) than singleton births.

Preterm birth is a leading cause of infant morbidity and mortality, accounting for 62.1 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 47.5 percent of all infant deaths (**Figure 2C-3**).

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

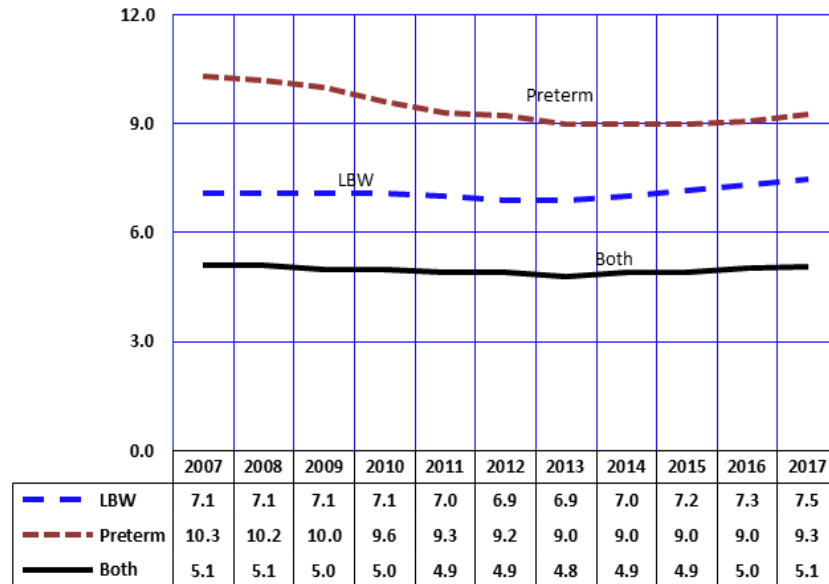
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-11
Preterm^a and Low Birthweight (LBW)^b Births by Year, Arizona, 2007-2017

The proportion of preterm births reached 9.3 percent of all births in 2017, an increase from 9.0 percent, the recorded rate since 2013.

The proportion of infants born prematurely and who were also low birth weight (LBW; at less than 2,500 grams) slightly increased from 5.0/100 births in 2016 to 5.1/100 births in 2017 (Figure 1B-11).

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

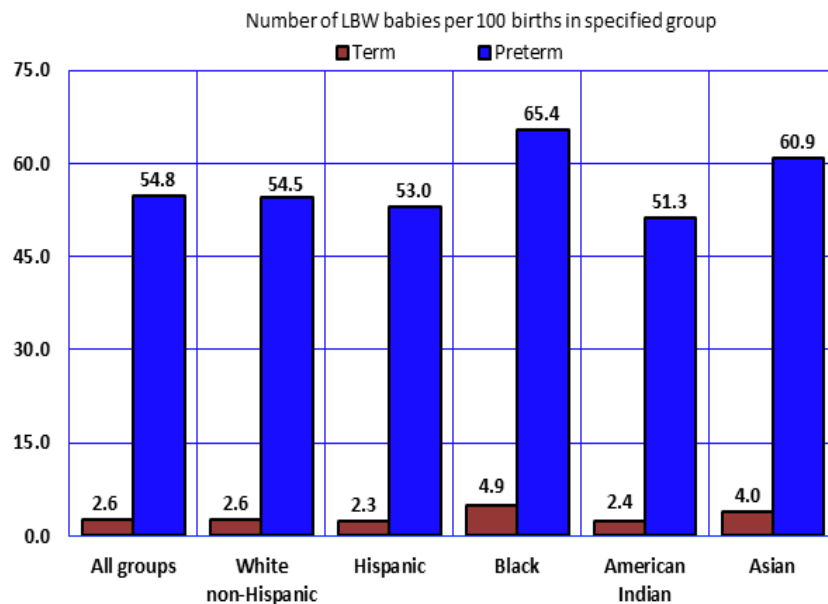


Notes: ^a Preterm: < 37 weeks of gestation; ^b Low birthweight (less than 2,500 grams or 5 pounds 8 ounces); In this report, the primary measure used to determine the gestational age is the clinical estimate of gestation as reported on the birth certificate.

Figure 1B-12
Low-Birthweight (LBW) Births by Length of Gestation and Mother's Race/Ethnicity, Arizona, 2017

From 2007 to 2017, between 7.1 and 7.5 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 20.8 times (54.8 vs. 2.6 percent)* more likely to be LBW than infants born at term (Figure 1B-12). Seven out of ten (67.8 percent) LBW babies born in 2017 were preterm (Table 1B-3).

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

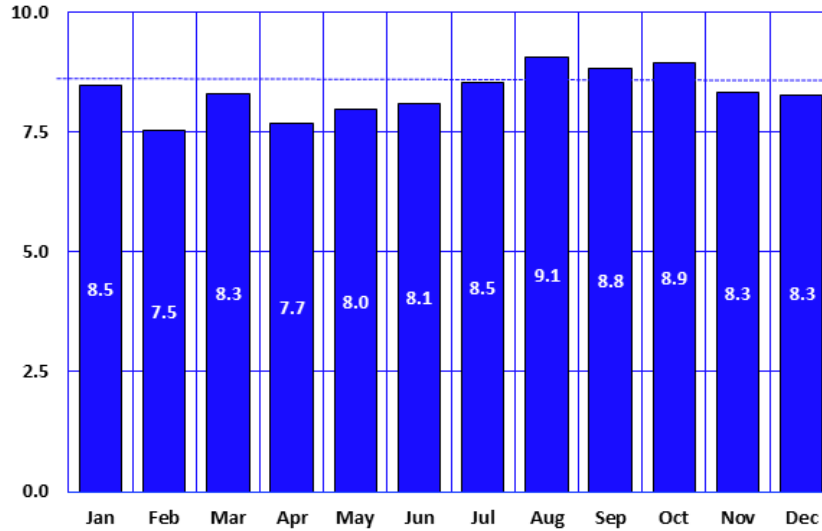


Notes: Number of LBW babies per 100 births in specified group; Preterm: < 37 weeks of gestation; Low birthweight (less than 2,500 grams or 5 pounds 8 ounces).

*A production error occurred in the 2016 report and has now been corrected. The updated statement is as follows: Infants born at less than 37 completed weeks of gestation were 22.2 times (55.6 vs. 2.5 percent) more likely to be LBW than infants born at term.

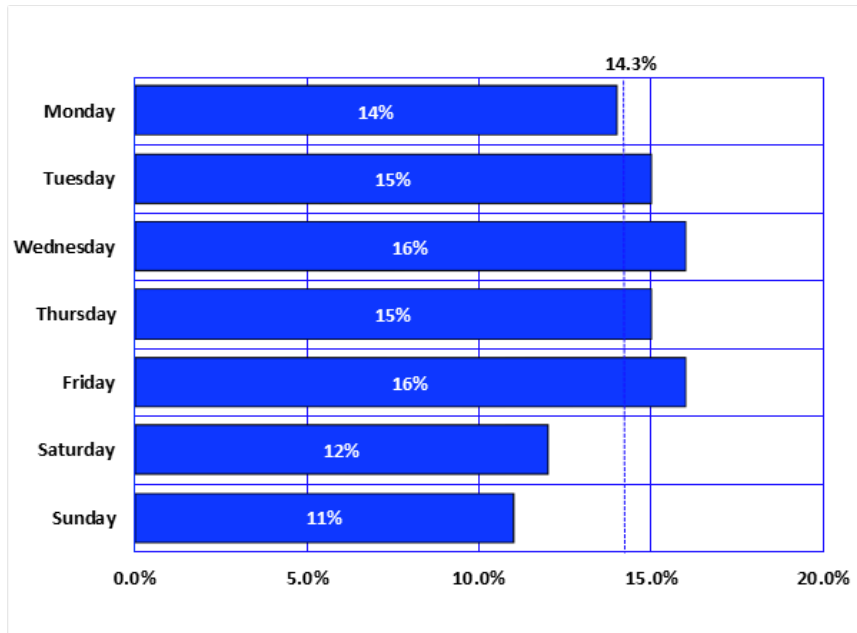
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-13
Percent of Resident Births by Month, Arizona, 2017



Historically, births in Arizona have peaked during August and September, with a monthly average around 8.3 percent. (Figure 1B-13). In 2017, the seasonal fluctuation of the frequency of births is marked by peak in August, September, and October.

Figure 1B-14
Percent of Resident Births by Day of the Week, Arizona, 2017



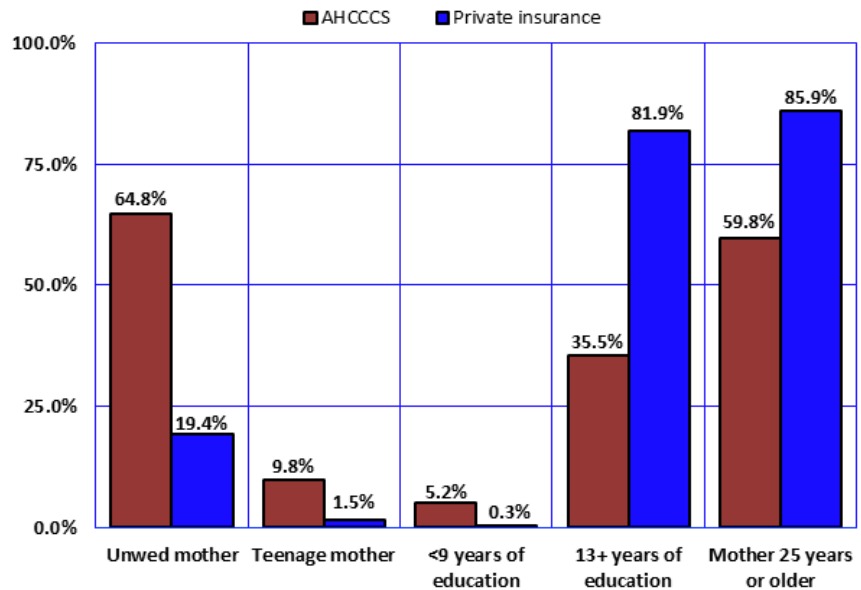
On average, 224 infants were born per day in 2017 to Arizona residents. The daily average of resident live births in 2017 was substantially lower on weekends than on weekdays (Figure 1B-14). Many studies suggest that weekly, daily, and hourly variations observed in hospitals and clinics are not due to 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 2017, only 8.5 percent of cesarean deliveries occurred on Sundays, compared to 16.4 percent on Mondays. The average rate of induction of labor was substantially lower on weekend days (11.5 percent) than it was on week days (15.4 percent).

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

The number of years of maternal education was the only possible proxy of socioeconomic status (SES) on the birth certificate prior to 1989. Paying party for the delivery became another SES indicator in 1989. The Arizona Health Care Cost Containment System (AHCCCS, the State's Medicaid Program) versus private health insurance (PHI) compares mothers of lower and higher SES respectively. PHI mothers were 2.3 times more likely to have some college education than were AHCCCS mothers (81.9 and 35.5 percent respectively, **Figure 1B-15**). Around 5 percent of AHCCCS mothers had 0-8 years of education, 16.0 times the proportion of PHI mothers. Only 19.4 percent of mothers with PHI were unmarried compared to 64.8 percent of AHCCCS mothers. Nine out of ten mothers with PHI were at least 25 years old compared to 6 out of 10 AHCCCS mothers.

Figure 1B-15
Comparison of Selected Sociodemographic Characteristics by the Payer for Delivery, Arizona, 2017

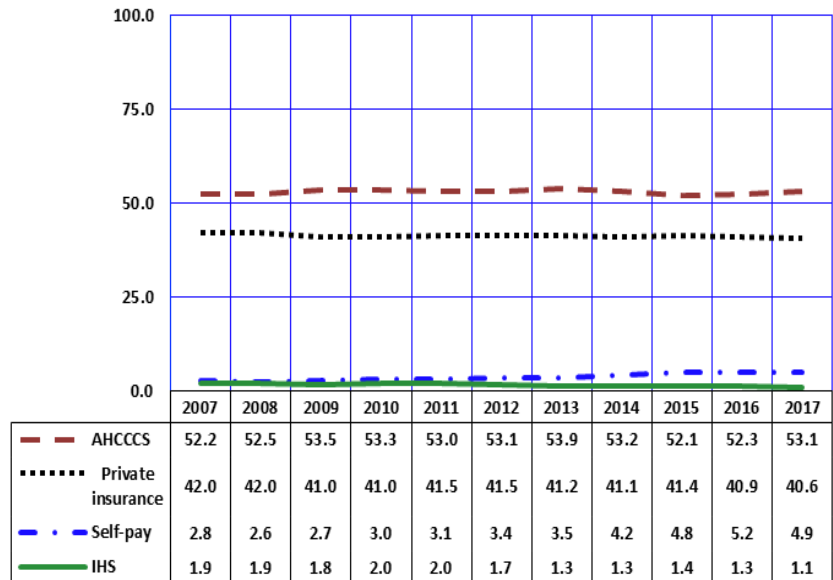


Note: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.

Since 2002, the share of resident births paid for by AHCCCS has exceeded the share paid by private health insurance (**Figure 1B-16**). In 2007, private insurance funded 42.0 percent of births and AHCCCS paid for 52.2 percent of births. Compared to 2007, AHCCCS paid for 1.7 percent more births in 2017 and private insurance paid for 3.2 percent fewer births in 2017.

The share of AHCCCS funded births varied little from 2007 to 2017. The share of private health insurance also remained stable during this time period. In 2017, the payment source was the mothers themselves and/or their families (i.e. self-pay) in 4.9 percent of the deliveries. The Indian Health Service (IHS) paid for 1.1 percent of the births in 2017, a slight decrease from last year (**Table 1B-25 and Table 1B-27**).

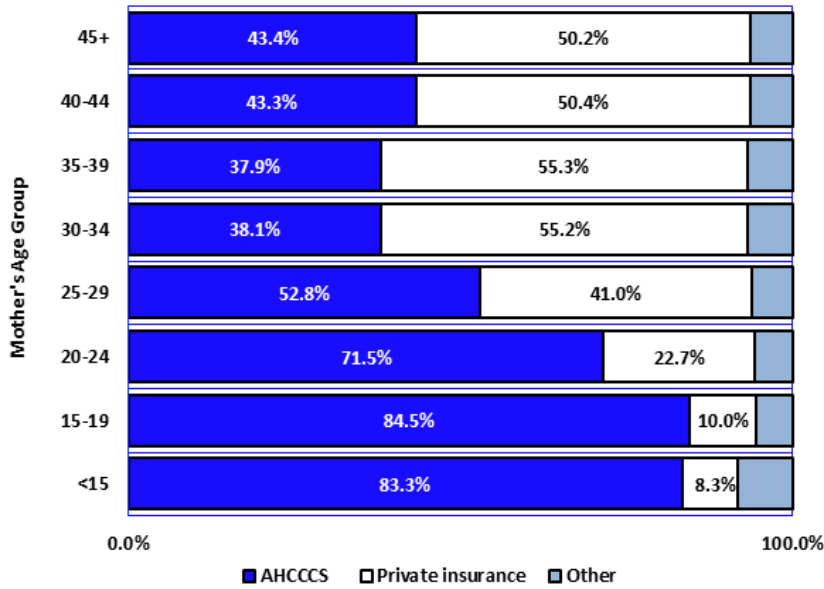
Figure 1B-16
Births by Payer and Year, Arizona, 2007-2017



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

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

Figure 1B-17
Payer for Delivery by Mother's Age Group, Arizona, 2017



In 2017, 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 2017 (based on data in **Table 1B-28**).

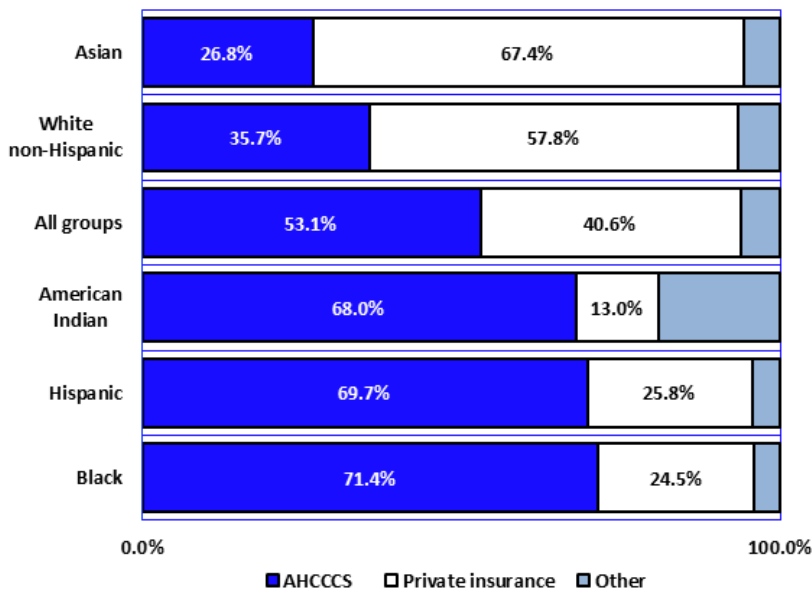
For each of the age groups the AHCCCS share substantially increased since 1989. Below are the proportions of deliveries paid for by AHCCCS in 1989:

- <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 2017, the share of births paid for by AHCCCS more than doubled among mothers 20 years old or younger.

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

Figure 1B-18
Payer for Delivery by Mother's Race/Ethnicity, Arizona, 2017



In 2017, private insurance was the largest payer for deliveries of Asian (67.4 percent) and White non-Hispanic infants (57.8 percent). In contrast, the Arizona Health Care Cost Containment System was the largest payer for deliveries of Black or African American (71.4 percent), Hispanic or Latino (69.7 percent), and American Indian women (68.0 percent).

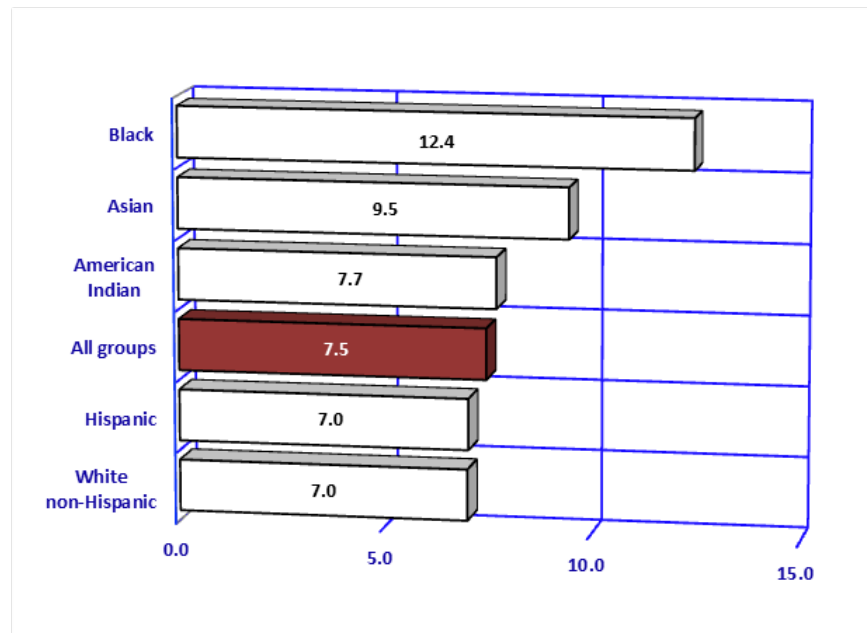
The Indian Health Service as a payer accounted for 16.6 percent of deliveries of American Indian or Alaska Native infants in the State (**Figure 1B-18**, based on data in **Table 1B-27**).

Hispanics or Latinos accounted for 53.4 percent of the 43,366 deliveries paid for by AHCCCS. About 29.4 percent of all AHCCCS births were to White non-Hispanic women (based on data in **Table 1B-27**).

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

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

Figure 1B-19
Percent of Low Birthweight^a by Mother's Race/Ethnicity,
Arizona Residents, 2017

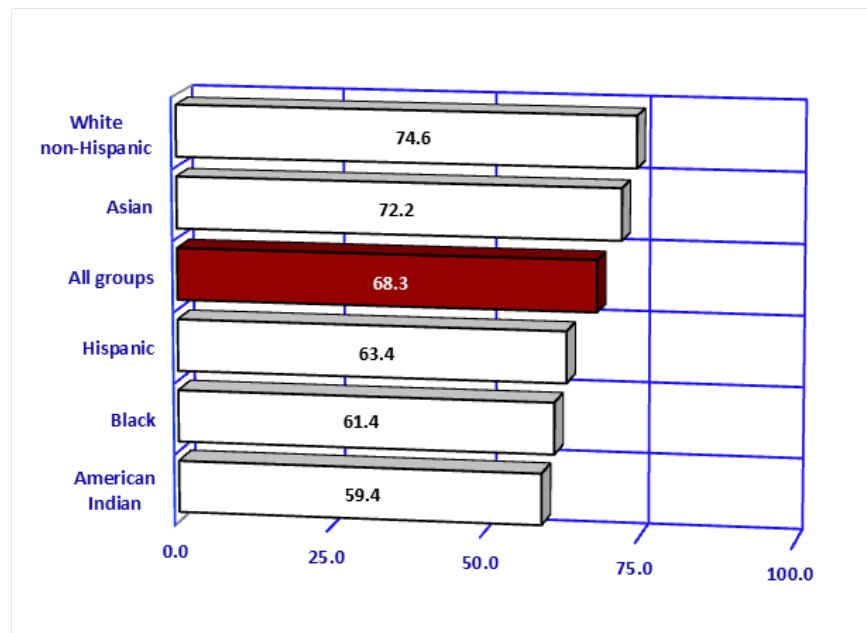


Note: ^a Low birthweight is less than 2,500 grams (less than 5 pounds 8 ounces).

In 2017, 7.5 percent of all Arizona infants were born at a low birthweight (LBW), or at less than 2,500 grams (5 pounds 8 ounces).

In Arizona, LBW rates differed by mother's racial/ethnic group. LBW rates were highest for newborns of Black or African American mothers (12.4 percent), Asian or Pacific Islander mothers (9.5 percent), and American Indian mothers (7.7 percent). Newborns of Hispanic or Latino and White non-Hispanic had the lowest LBW rates at 7.0 percent; based on data in **Table 1B-25**).

Figure 1B-20
First Trimester Prenatal Care by Mother's Race/Ethnicity,
Arizona Residents, 2017

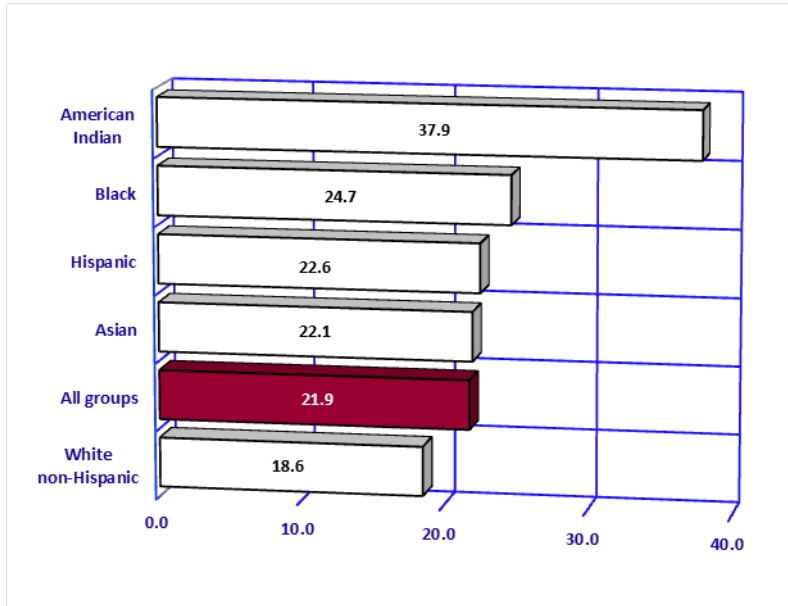


The percent of Arizona mothers giving birth who received early prenatal care (i.e., in the first trimester) has remained relatively stable from 2008 (79.4 percent) to 2013 (81.3 percent; **Table 1B-2**). In 2017, 68.3 percent of Arizona mothers initiated prenatal care during the first trimester. It should be noted that with the adoption of the 2003 revised U.S. birth certificate in 2014, trend analysis of the timing of prenatal care is compromised by significant changes in reporting of prenatal care initiation. Hence, the low proportion of women with timely entry to prenatal care in 2017 may be attributable for the most part to differences in reporting.

In Arizona, American Indian, Black or African American, and Hispanic or Latino mothers were least likely to begin prenatal care in the first trimester (**Figure 1B-20**). 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**).

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

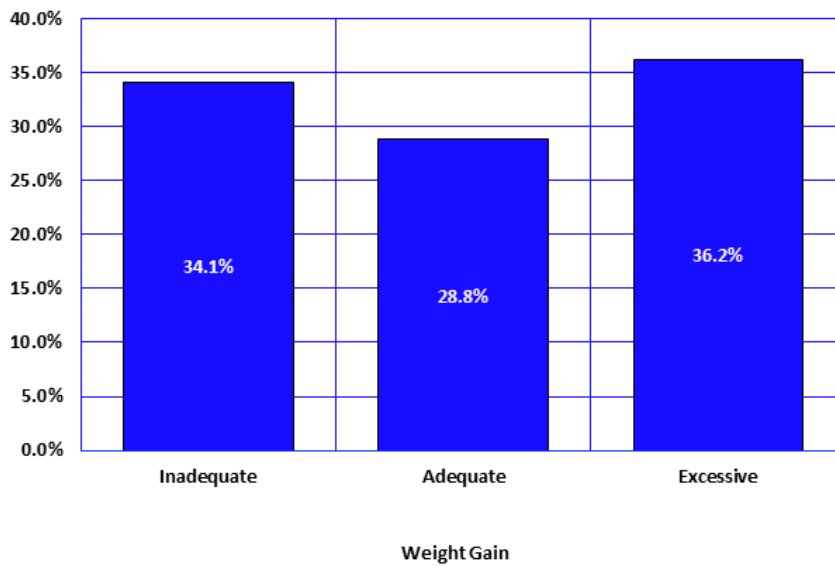
Figure 1B-21
Maternal Medical Risk Factors^a by Mother's Race/Ethnicity, Arizona, 2017



Note: ^a 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 2017, with exception to White non-Hispanic mothers, all the mothers from the remaining race/ethnic groups recorded highest proportions of medical risk factors (**Figure 1B-21**).

Figure 1B-22
Low-Birthweight by Maternal Weight Gain during Pregnancy, Arizona, 2017



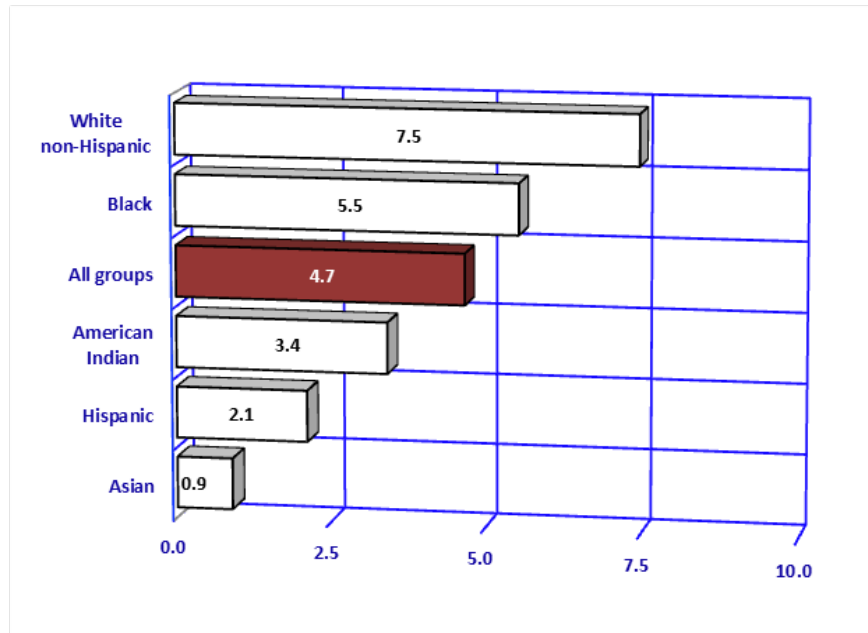
Maternal weight gain during pregnancy is a determinant of both fetal growth and birthweight. Insufficient or excessive weight gain during pregnancy can negatively influence outcomes of both mother and infant. Based on the Institute of Medicine guidelines, women who are of normal weight (body mass index 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 2017, the proportion of newborns with low birthweight was the lowest among mothers who gained the recommended amount of weight during pregnancy (**Figure 1B-22**).

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

Figure 1B-23
Self-reported Tobacco Use during Pregnancy^a by Race/Ethnicity, Arizona, 2017

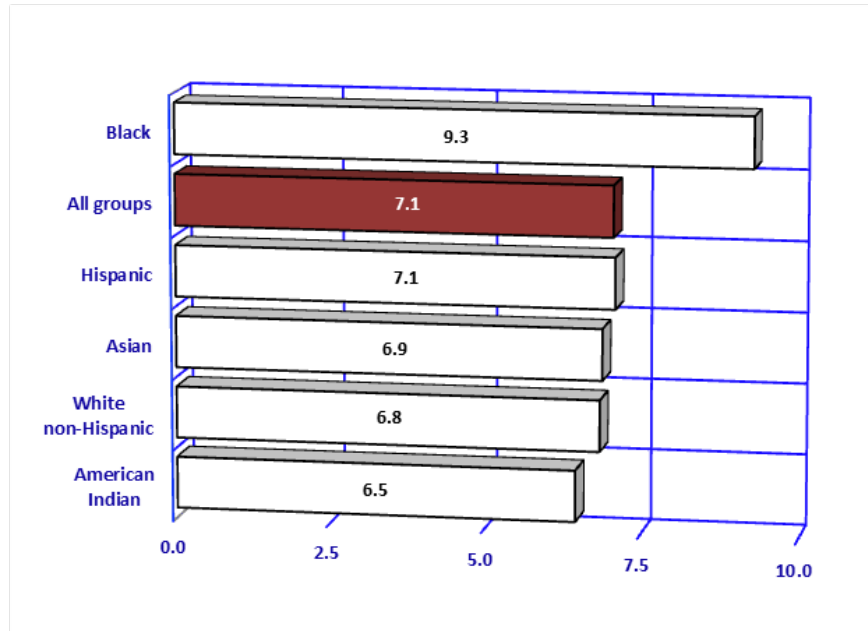
Cigarette smoking during pregnancy has been associated with reduced infant weight at birth, intrauterine growth retardation, and preterm births. Smoking during pregnancy was reported by 4.7 percent of women giving birth in 2017 (**Table 1B-25, Table 5B-30**), compared to 10.5 percent in 1989, when this information was first reported on Arizona birth certificates. It is unclear whether this decline means that women giving birth in Arizona are less likely to use tobacco during pregnancy or, perhaps, less likely to report it if they use. White non-Hispanic and Black mothers continued to be more likely to report smoking than American Indian, Hispanic, and Asian mothers (**Figure 1B-23**).



Note: ^a Mothers giving birth who reported tobacco use per 100 births in specified group.

Figure 1B-24
Rates of Admission to Newborn Intensive Care Units^a by Mother's Race/Ethnicity, Arizona, 2017

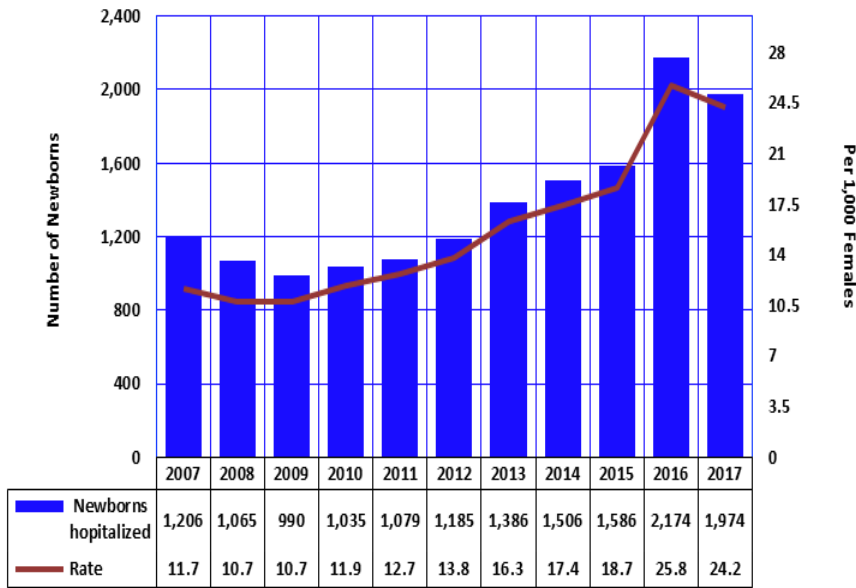
In 2017, 5,763 or 7.1 percent of newborns were admitted to newborn intensive care units (NICUs). Around 43.6 percent of the NICU admissions were low birthweight (LBW) babies. Prematurity, i.e., gestational age before 37 weeks captured more NICU admissions than did LBW, with 52.8 percent of NICU admissions being premature (based on data in **Table 1B-32**). The proportion of NICU admissions differed among racial/ethnic groups. In 2017 the rate of NICU admissions for Black or African American births was the highest among racial/ethnic groups (9.3 percent; **Table 1B-25**).



Note: ^a The number of newborns admitted to Intensive Care Units per 100 births in specified group.

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

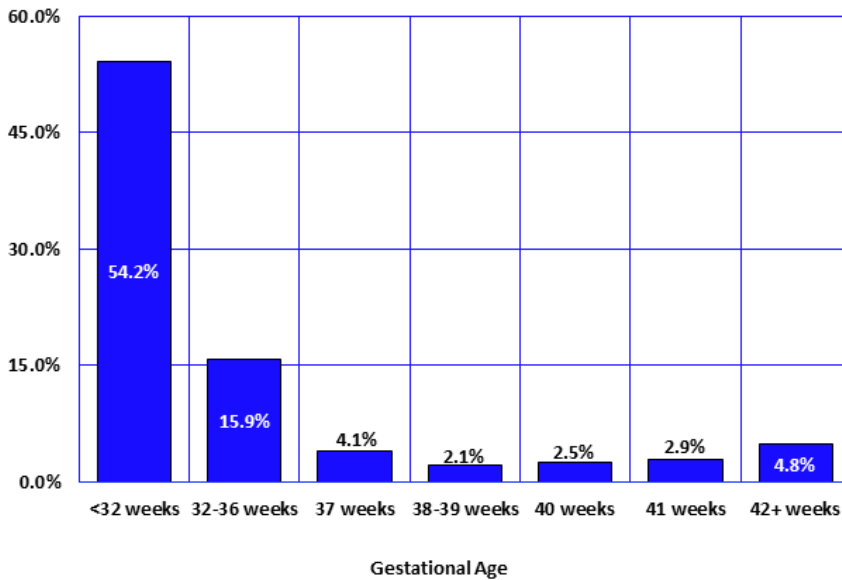
Figure 1B-25
Newborns Who Were Hospitalized after Birth because They Were Affected by Maternal Use of Drugs during Pregnancy, Arizona, 2007-2017



Note: 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 4 year-period of decline (2007-2009) 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 24.2/1,000 in 2017.

Figure 1B-26
Abnormal Conditions of the Newborn by Gestational Age, Arizona, 2017



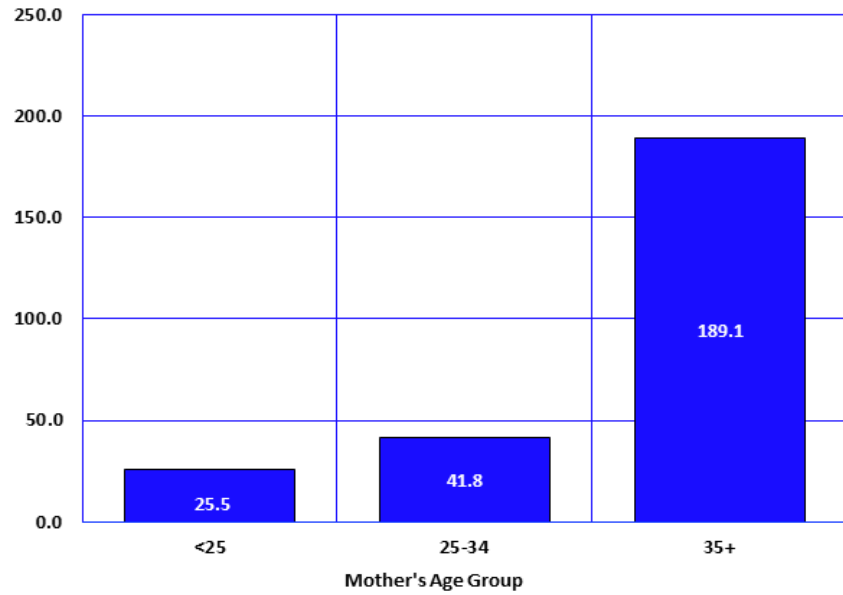
With the implementation of the revised birth certificate, three of the six specific abnormal conditions listed on the birth certificate have been reported most frequently: *assisted ventilation immediately after delivery*, *assisted ventilation for more than six hours*, and *suspected neonatal sepsis*.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

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

Figure 1B-27
The Incidence of Down Syndrome by Mother's Age Group, Arizona, 2017

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 2017 as in prior years, the rate of Down's Syndrome, the most frequently recognized cause of intellectual disability, was substantially higher for births to mothers aged 35 years and older (**Figure 1B-27, Table 1B-33**). The incidence rate of 189.1 cases of Down's Syndrome per 100,000 births to women 35 years or older was 7.4 times greater than the incidence rate of 25.5 for women aged 24 years or younger.



**TABLE 1B-1
BIRTH RATE^a, GENERAL FERTILITY RATE^b, TOTAL FERTILITY RATE^c,
GROSS REPRODUCTION RATE^d, AND AGE-SPECIFIC BIRTH RATES^e BY YEAR,
ARIZONA AND UNITED STATES^f, 2007-2017**

Year	Area	Birth rate	General fertility rate	Total fertility rate	Gross reproduction rate	Age specific birth rates:							
						Under 15 years	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years
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	1,986	968	0.2	29.9	90.7	117.6	98.1	49.7	10.1	0.9
	U.S.	12.5	62.9	1,863	NA	0.3	24.2	79.0	105.8	100.8	51.0	10.6	0.8
2015	AZ	12.6	64.8	1,924	938	0.2	26.3	86.6	115.4	95.9	48.9	10.5	0.9
	U.S.	12.5	62.5	1,843	NA	0.2	22.3	76.9	104.3	101.4	51.7	11.0	0.8
2016	AZ	12.3	63.9	1,895	930	0.2	23.7	84.2	112.9	98.2	48.7	10.2	0.8
	U.S.	12.4	62.0	1,818	NA	0.2	20.3	73.7	101.9	102.6	52.6	11.4	0.9
2017	AZ	11.7	61.1	1,805	888	0.2	21.9	78.9	105.6	94.9	47.8	10.6	1.1
	U.S.	12.2	60.3	1764	NA	0.2	18.8	71.0	97.9	100.3	52.2	11.6	0.9

Notes: ^a The number of births per 1,000 population.

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

^c 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 2017 TFR of 1,805 can be interpreted at the individual level as the average number of children a female resident would have by age 50 ($1,805/1000 = 2$ live births) if she were subjected throughout her life to the age-specific birth rates observed in 2017.

^d 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 2007-2017.

^e 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.

^f The U.S. rates are from the National Center for Health Statistics:

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

**TABLE 1B-2
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE
AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX,
BIRTH ORDER, AND BIRTH COMPLICATIONS^a, ARIZONA, 2007-2017
(ALL RACE/ETHNIC GROUPS)**

Characteristic	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Number of births	102,687	99,215	92,616	87,053	85,190	85,725	84,963	86,648	85,024	84,404	81,664
Age of mother											
≤19 years	12.6	12.3	11.8	10.8	9.9	9.5	8.5	7.6	6.9	6.4	6.2
≥30 years	32.3	33.1	33.8	35.0	36.1	36.7	37.2	38.8	39.3	40.2	40.9
Marital status											
Unmarried	45.0	45.1	45.2	44.7	44.3	45.2	45.1	44.7	45.3	44.8	44.4
Mother's education											
<9 years	7.8	6.9	6.1	5.3	4.6	4.3	3.8	3.7	3.5	3.2	3.1
Mother's race/ethnicity											
White ^b	41.1	42.3	43.0	44.5	45.0	45.1	45.0	46.3	44.9	44.7	43.7
Hispanic	44.5	43.0	41.4	39.4	38.0	38.7	38.9	38.9	40.3	40.1	40.6
Black	4.1	4.3	4.7	5.0	5.1	5.5	5.6	5.2	5.1	5.2	5.6
American Indian	6.2	6.4	6.7	6.7	6.8	6.5	6.4	5.9	5.9	6.0	6.0
Asian or Pacific Islander	4.0	4.1	4.2	4.4	5.0	4.2	4.1	3.7	3.8	4.0	4.1
Prenatal care begin											
1 st Trimester	77.6	79.4	80.3	81.9	81.7	82.6	81.3	66.0	67.9	68.9	68.3
3 rd Trimester	3.7	3.6	3.4	3.2	3.1	3.2	3.6	5.3	5.5	5.8	5.7
No Care	2.2	1.8	1.8	1.6	1.6	1.2	1.4	2.1	2.2	2.4	2.9
Prenatal visits											
1-4	3.9	3.6	3.5	3.3	3.4	3.6	3.8	4.4	4.4	4.6	4.6
≥5	93.9	94.5	94.5	94.9	94.5	94.9	94.7	92.1	92.2	91.5	90.8
≥9	76.7	77.8	78.9	80.5	80.6	81.3	81.2	77.6	77.0	76.0	75.6
≥13	29.4	29.9	30.0	31.6	33.7	34.6	34.8	30.7	30.4	29.9	31.2
Medical risk/ Complications^c	45.3	46.5	48.1	49.7	46.3	52.4	55.5	34.5	39.0	40.7	42.7
Gestational age^d											
Preterm (<37 weeks)	10.3	10.2	10.0	9.6	9.3	9.2	9.0	9.0	9.0	9.0	9.3
Birth weight											
<2,500 grams	7.1	7.1	7.1	7.1	7.0	6.9	6.9	7.0	7.2	7.3	7.5
<1,500 grams	1.2	1.2	1.2	1.1	1.2	1.2	1.1	1.2	1.1	1.2	1.2
Child's sex											
Male	51.2	51.1	51.1	50.9	51.2	51.2	51.4	51.3	51.3	50.9	50.8
Female	48.8	48.9	48.9	49.1	48.8	48.8	48.6	48.7	48.7	49.1	49.2
Plurality											
Multiple births	2.7	2.9	2.8	2.9	2.8	2.8	3.0	3.0	3.0	3.1	3.3
Caesarean delivery	26.6	27.5	27.7	27.6	27.9	27.6	27.8	27.7	27.5	27.5	26.8
Place of delivery											
Hospital ^e	99.0	99.0	98.8	98.8	98.5	98.6	98.7	98.5	98.5	98.3	98.3
Attendant at birth											
Midwife ^f	5.7	6.1	6.5	6.6	6.4	7.2	7.4	10.2	11.8	12.8	13.5
Previous live births											
1 or more	63.1	63.3	63.1	63.0	62.6	62.7	63.6	64.0	64.3	64.8	64.4

Notes: ^a Rates per 100 births.

^b Non-Hispanic.

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

^d Physician's estimate.

^e Hospital, clinic, medical center or maternity home.

^f 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^a, ARIZONA, 2007-2017
(ALL RACE/ETHNIC GROUPS)

Characteristic	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Number of births	7,285	7,026	6,573	6,155	5,949	5,946	5,849	6,069	6,093	6,186	6,109
Age of mother											
≤19 years	14.2	13.2	13.1	12.3	11.6	10.7	8.9	7.8	7.8	7.0	7.1
≥30 years	34.7	35.8	37.4	37.8	37.9	39.4	37.9	40.9	42.0	42.4	43.0
Marital status											
Unmarried	49.2	48.6	48.5	49.4	50.0	51.4	51.3	49.1	47.5	48.2	49.6
Mother's education											
<9 years	7.7	6.3	5.7	4.7	4.5	4.5	4.2	3.8	3.5	3.7	3.0
Mother's race/ethnicity											
White ^b	40.9	41.0	41.5	41.9	43.5	42.1	42.0	44.7	41.7	41.8	41.0
Hispanic	41.5	40.8	38.7	38.1	34.9	37.9	37.6	37.0	38.8	38.8	38.3
Black	7.3	7.2	8.5	8.0	9.2	9.3	8.9	8.8	8.8	8.5	9.4
American Indian	5.8	6.1	6.0	6.6	6.8	6.3	6.7	5.2	6.0	5.9	6.2
Asian or Pacific Islander	4.5	5.0	5.2	5.4	5.7	4.4	4.7	4.2	4.8	5.1	5.2
Prenatal care began											
1st Trimester	77.4	79.5	80.6	81.0	81.2	80.0	78.9	63.6	65.0	66.0	65.9
3rd Trimester	3.1	2.9	2.6	2.7	2.3	2.7	3.4	4.1	3.9	4.5	4.0
No Care	4.5	3.8	3.6	3.2	3.2	2.9	2.9	4.8	5.2	5.0	5.6
Prenatal visits											
1-4	8.2	7.7	7.6	7.5	7.3	8.6	8.2	8.6	9.4	9.5	9.4
≥5	87.1	88.2	88.3	88.8	88.5	87.9	88.5	84.8	83.1	82.6	82.3
≥9	61.2	63.0	64.1	65.2	65.0	65.5	66.4	60.4	58.1	57.4	56.1
≥13	25.1	25.6	25.7	27.1	28.5	26.7	27.7	22.1	20.2	20.1	21.3
Medical risks/											
Complications^c	65.9	68.7	70.5	73.3	69.2	73.2	72.5	58.9	60.0	62.0	65.1
Gestational age^d											
Preterm (<37 weeks)	72.3	71.7	71.2	70.2	70.1	71.2	70.2	69.4	68.8	68.7	67.8
Birth weight											
<1,500 grams	16.8	16.5	16.7	15.3	16.8	16.6	15.8	16.8	16.0	16.3	15.8
<1,000 grams	8.1	7.7	8.0	7.1	8.3	8.1	7.4	8.4	7.4	8.0	7.7
Child's sex											
Male	47.9	48.1	47.8	46.5	46.8	48.7	49.3	47.7	47.4	48.0	46.9
Female	52.1	51.9	52.2	53.5	53.2	51.3	50.7	52.3	52.6	52.0	53.1
Plurality											
Multiple births	23.1	23.3	22.1	23.1	22.8	23.0	24.4	23.7	22.5	23.9	22.8
Caesarean delivery	44.2	46.7	46.4	46.5	46.8	47.7	47.6	47.4	48.6	48.4	47.0
Place of delivery											
Hospital ^e	99.6	99.7	99.8	99.6	99.4	99.7	99.7	99.7	99.5	99.4	99.3
Attendant at birth											
Midwife ^f	2.5	2.6	2.3	2.6	2.3	2.5	2.7	9.5	10.5	11.0	12.3
Previous live births											
1 or more	60.5	60.5	59.7	60.3	59.6	61.4	60.5	61.4	60.9	61.0	60.7

Notes: ^a Rates per 100 births.

^b Non-Hispanic.

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

^d Physician's estimate.

^e Hospital, clinic, medical center or maternity home.

^f 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^a, ARIZONA, 2007-2017
(RURAL REGIONS)^b**

Characteristic		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Number of births		14,413	13,952	13,570	12,429	12,150	11,597	11,470	11,955	11,467	11,502	10,873
Age of mother	≤19 years	15.8	15.4	15.4	13.9	12.7	12.2	10.6	9.8	9.0	8.5	8.3
	≥30 years	26.2	26.8	26.7	27.9	28.2	29.3	29.4	31.3	30.9	33.4	33.9
Marital status	Unmarried	49.4	51.1	50.7	51.2	51.0	52.4	52.0	51.7	53.0	51.8	52.8
Mother's education	<9 years	4.5	4.0	4.0	3.1	2.5	2.2	2.4	2.3	1.9	1.8	1.9
Mother's race/ethnicity	White ^c	46.6	46.7	48.1	47.2	47.9	48.7	49.1	49.8	47.7	49.3	47.5
	Hispanic	26.6	25.7	24.3	24.4	23.0	24.1	24.0	24.2	26.4	25.3	25.1
	Black	1.1	1.3	1.2	1.2	1.4	1.5	1.3	0.9	0.9	1.0	1.1
	American Indian	23.2	24.4	24.4	25.0	25.7	24.2	24.0	23.5	23.6	23.2	24.7
	Asian or Pacific Islander	2.6	2.0	2.1	2.2	2.0	1.5	1.7	1.5	1.4	1.2	1.6
Prenatal care began	1st Trimester	73.7	72.7	73.3	74.8	77.1	77.7	76.3	62.5	64.8	65.4	65.4
	3rd Trimester	4.8	5.2	5.5	5.3	4.1	4.3	4.1	6.3	6.7	7.3	7.3
	No care	1.9	1.9	1.5	1.8	1.5	1.5	2.2	1.9	3.0	3.0	3.1
Prenatal visits	1-4	6.0	6.8	6.1	5.9	5.7	5.7	5.6	6.6	6.2	7.0	7.4
	≥5	91.9	91.1	92.0	91.8	92.3	92.4	92.0	90.5	89.9	89.1	88.5
	≥9	71.4	69.7	71.5	71.9	73.3	73.9	73.8	71.1	69.5	69.1	68.4
	≥13	27.9	28.8	26.5	28.7	31.2	31.0	31.7	28.3	26.7	28.4	28.2
Medical risks/complications^d		50.7	48.2	45.1	47.9	41.1	52.0	51.8	34.1	36.7	37.8	39.8
Gestational age^e	Preterm (<37 weeks)	10.0	9.7	9.7	9.4	8.8	9.1	8.7	8.3	8.9	9.1	9.6
Birth weight	<2,500 grams	7.5	7.5	7.6	7.4	7.3	7.3	7.3	7.0	7.8	8.0	8.1
	<1,500 grams	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.2	1.2	1.3
Child's sex	Male	50.0	51.3	50.3	51.4	51.3	51.2	51.3	51.1	51.0	50.3	51.6
	Female	50.0	48.7	49.7	48.6	48.7	48.8	48.7	48.9	49.0	49.7	48.4
Plurality	Multiple births	2.2	2.4	2.5	2.3	2.6	2.2	2.4	2.5	2.6	2.9	2.9
Caesarean delivery		25.3	26.0	25.4	25.2	25.8	25.7	25.8	25.2	25.0	26.2	24.6
Place of delivery	Hospital ^f	97.3	97.1	96.9	97.2	97.0	98.0	98.2	97.7	97.6	97.3	97.1
Attendant at birth	Midwife ^g	12.5	12.7	12.6	13.4	14.0	13.4	14.2	10.7	10.2	11.3	11.2
Previous live births	1 or more	64.5	64.4	64.3	64.3	63.8	63.3	64.8	66.0	65.8	66.3	67.1
Number of LBW births		1,080	1,052	1,025	917	884	850	836	835	891	916	884
Age of mother	≤19 years	17.2	16.4	15.1	13.1	15.5	13.9	9.7	11.3	10.3	10.6	8.6
	≥30 years	28.1	29.4	31.1	31.7	30.1	32.8	29.9	34.5	32.8	32.3	36.5
Marital status	Unmarried	53.1	55.2	50.6	55.2	55.7	59.1	54.2	53.9	57.1	54.3	56.3
Mother's education	<9 years	4.8	3.9	4.9	2.3	2.3	3.1	3.0	2.3	2.5	2.3	1.9
Mother's race/ethnicity	White ^c	48.0	47.6	46.8	46.6	47.3	48.1	49.2	53.5	49.2	46.0	45.7
	Hispanic	25.8	24.9	26.9	24.1	21.6	24.2	24.4	22.0	24.2	27.4	24.5
	Black	1.8	2.6	1.3	1.4	2.6	2.2	1.4	2.2	1.5	1.6	0.9
	American Indian	21.4	22.7	22.2	24.1	26.2	24.0	22.8	20.7	23.2	23.5	26.6
	Asian or Pacific Islander	3.1	2.2	2.8	3.8	2.3	1.4	2.2	1.6	1.9	1.5	2.3
Prenatal care began	1st Trimester	76.0	75.7	76.7	74.3	77.3	76.5	74.0	62.5	59.5	61.6	61.4
	3rd Trimester	4.2	4.1	4.4	4.0	3.5	3.4	4.2	4.0	5.1	5.6	5.0
	No care	4.5	3.5	2.6	4.4	4.0	3.8	4.1	4.0	7.3	8.7	7.2
Prenatal visits	1-4	9.4	10.2	9.8	9.5	8.7	13.1	10.3	9.7	12.2	14.3	13.1
	≥5	85.9	85.8	86.4	85.1	86.2	82.0	84.7	84.9	77.6	74.7	77.0
	≥9	58.1	59.0	59.2	57.4	60.4	59.2	58.9	58.2	49.5	50.0	46.9
	≥13	22.0	24.9	22.6	21.3	25.2	22.9	23.3	19.2	17.8	17.6	18.8
Medical risks/complications^d		65.1	63.9	63.6	66.1	60.2	67.4	65.4	58.0	59.9	63.9	63.6
Gestational age^e	Preterm (<37 weeks)	68.9	65.9	65.7	67.8	64.0	70.5	66.6	61.0	65.2	63.6	67.9
Birth weight	<1,500 grams	15.3	14.5	14.4	15.3	13.5	14.5	15.7	15.3	10.0	14.7	16.4
	<1,000 grams	7.1	5.7	5.9	6.3	6.0	6.2	6.3	7.1	5.7	6.7	6.7
Child's sex	Male	46.1	49.1	47.0	50.2	45.9	49.2	50.0	45.0	44.6	46.4	47.9
	Female	53.9	50.8	53.0	49.8	54.1	50.8	50.0	55.0	55.4	53.6	52.1
Plurality	Multiple births	15.9	19.8	18.4	17.9	20.5	17.9	19.5	20.2	17.5	19.8	16.5
Caesarean delivery		39.2	42.7	42.0	43.2	41.4	41.8	45.5	42.3	45.2	46.0	44.3
Place of delivery	Hospital ^f	99.3	99.1	99.4	99.2	98.5	98.9	99.2	99.0	98.4	98.1	98.0
Attendant at birth	Midwife ^g	5.6	5.1	4.6	5.3	6.3	5.2	5.7	9.2	9.7	10.7	11.9
Previous live births	1 or more	62.2	64.6	59.8	65.6	62.2	62.4	63.3	61.1	62.3	61.0	63.7

Notes: ^a Rates per 100 births.

^b 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.

^c Non-Hispanic.

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

^e Physician's estimate.

^f Hospital, clinic, medical center or maternity home.

^g 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^a, ARIZONA, 2007-2017
(WHITE NON-HISPANIC MOTHERS)

Characteristic	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Number of births	42,216	41,925	39,781	38,777	38,294	38,670	38,220	40,097	38,180	37,762	35,685
Age of mother											
≤19 Years	7.3	7.1	6.8	6.2	5.5	5.1	4.7	4.4	4.0	3.6	3.3
≥30 Years	38.5	38.7	39.3	40.4	41.5	42.9	43.2	45.1	45.6	47.0	48.0
Marital status											
Unmarried	28.4	29.5	29.7	29.9	29.5	30.4	30.3	31.1	31.5	31.3	30.7
Mother's education											
<9 years	1.2	1.1	1.2	1.1	1.2	1.0	0.8	0.7	0.8	0.6	0.8
Prenatal care began											
1st Trimester	86.5	87.3	87.9	88.2	88.0	88.4	87.4	71.7	73.2	74.7	74.6
3rd Trimester	2.1	1.9	1.9	2.1	1.8	1.8	2.0	3.5	3.7	3.9	4.2
No Care	0.9	0.7	0.7	0.6	0.6	0.6	0.7	1.1	1.3	1.4	1.6
Prenatal visits											
1-4	2.1	2.0	1.8	1.7	1.7	2.0	2.1	2.6	2.7	2.8	3.1
≥5	97.0	97.2	97.3	97.5	97.1	97.1	97.1	94.8	94.5	94.0	93.8
≥9	84.6	85.0	86.4	87.6	86.9	87.3	87.2	83.7	83.2	82.2	82.0
≥13	34.6	34.8	35.0	37.4	39.7	41.2	41.9	36.6	36.2	35.5	37.3
Medical risks/											
Complications^b	47.5	47.7	48.1	49.5	46.1	50.6	55.1	32.8	35.4	37.9	39.7
Gestational Age^c											
Preterm (<37 weeks)	10.4	10.1	9.9	9.2	9.1	8.7	8.4	8.6	8.6	8.5	8.6
Birth weight											
<2,500 grams	7.1	6.9	6.9	6.7	6.7	6.5	6.4	6.8	6.6	6.8	7.0
<1,500 grams	1.1	1.1	1.1	0.9	1.1	1.0	1.0	1.1	1.0	1.1	1.0
Child's sex											
Male	50.8	51.1	51.2	51.4	51.1	51.3	51.3	51.3	51.6	50.9	50.7
Female	49.2	48.9	48.8	48.6	48.9	48.7	48.7	48.7	48.4	49.1	49.3
Plurality											
Multiple births	3.5	3.6	3.4	3.5	3.5	3.4	3.6	3.7	3.4	3.8	3.9
Caesarean delivery											
	28.6	29.5	29.5	29.1	29.4	28.7	28.4	28.8	28.1	28.0	27.2
Place of delivery											
Hospital ^d	97.9	97.9	97.6	97.7	97.4	97.4	97.6	97.4	97.2	96.9	96.9
Attendant at birth											
Midwife ^e	3.6	4.0	4.5	4.8	4.9	6.0	6.5	12.6	14.1	15.1	15.6
Previous live births											
1 or more	59.7	59.5	59.4	59.6	59.2	59.6	60.5	60.9	61.5	62.2	61.7

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

^d Hospital, clinic, medical center or maternity home.

^e 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^a, ARIZONA, 2007-2017
(WHITE NON-HISPANIC MOTHERS)**

Characteristic	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Number of LBW births	2,978	2,878	2,727	2,579	2,586	2,505	2,459	2,715	2,538	2,585	2,507
Age of mother											
≤19 years	8.8	7.6	8.7	7.1	6.8	6.5	5.2	4.8	5.5	4.3	4.4
≥30 years	40.9	41.8	43.2	43.6	44.8	45.5	42.5	47.5	47.8	49.5	49.9
Marital status											
Unmarried	34.6	34.1	33.5	34.7	36.2	37.2	36.9	37.9	39.9	35.8	37.5
Mother's education											
<9 years	1.6	1.4	1.1	1.1	1.5	1.4	1.6	1.1	0.9	0.8	0.7
Prenatal care began											
1st Trimester	86.2	86.5	86.8	86.1	86.4	84.2	83.9	69.4	71.1	70.9	71.5
3rd Trimester	1.8	1.7	1.9	2.1	1.4	2.0	2.2	3.2	3.0	3.8	3.7
No Care	2.4	2.1	1.9	2.2	1.7	2.2	1.6	3.4	3.9	3.6	3.8
Prenatal visits											
1-4	5.5	4.7	5.3	4.5	4.5	6.1	5.6	6.0	7.8	7.0	8.0
≥5	92.0	92.9	92.4	92.9	92.5	91.1	92.4	88.7	85.3	86.0	85.5
≥9	70.1	69.8	70.6	74.4	71.5	71.4	70.6	67.4	64.3	63.5	61.1
≥13	31.0	29.9	30.5	34.3	34.6	31.7	33.0	28.4	24.0	25.3	25.5
Medical risks/ Complications^b											
Gestational age ^c	68.6	71.5	71.5	73.2	72.2	74.2	75.2	60.4	58.6	62.3	64.5
Preterm (<37 weeks)	74.0	72.9	71.7	69.5	70.9	71.4	70.7	68.7	70.0	69.4	66.5
Birth weight											
<1,500 grams	15.0	15.7	15.5	13.3	16.7	16.1	15.3	16.4	8.8	15.6	13.6
<1,000 grams	6.2	6.8	6.9	5.7	7.6	7.6	6.9	7.3	6.3	7.0	6.1
Child's sex											
Male	46.9	47.0	46.3	45.4	47.1	46.7	49.3	47.0	46.7	45.9	45.8
Female	53.1	53.0	53.7	54.6	52.9	53.3	50.7	53.0	53.3	54.1	54.2
Plurality											
Multiple births	29.6	30.1	26.7	29.2	29.1	28.8	29.7	30.3	27.2	30.6	27.3
Caesarean delivery											
Caesarean delivery	49.6	53.2	50.5	51.1	50.9	52.5	49.5	52.2	52.2	52.3	49.3
Place of delivery											
Hospital ^d	99.5	99.4	99.7	99.5	99.2	99.4	99.6	99.5	99.3	99.2	99.0
Attendant at birth											
Midwife ^e	1.2	1.3	1.1	1.1	1.0	1.3	1.7	11.4	11.9	12.8	13.3
Previous live births											
1 or more	57.5	58.3	56.7	58.2	56.2	57.9	56.8	58.8	56.5	59.1	57.1

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

^d Hospital, clinic, medical center or maternity home.

^e 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^a, ARIZONA, 2007-2017
(HISPANIC OR LATINO MOTHERS)**

Characteristic	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Number of births	45,731	42,639	38,362	34,333	32,398	33,146	33,075	33,715	34,264	33,874	33,191
Age of mother											
≤19 years	17.0	16.8	16.5	15.6	14.3	14.0	12.3	11.3	9.9	9.3	9.0
≥30 years	26.5	27.5	28.4	29.4	29.8	30.2	30.6	31.9	32.3	32.5	33.3
Marital status											
Unmarried	56.7	56.5	56.9	56.2	56.6	57.2	57.1	56.1	56.2	55.8	55.1
Mother's education											
<9 years	15.4	13.9	12.3	10.7	9.3	8.7	7.6	7.5	6.7	6.2	5.5
Prenatal care began											
1st Trimester	70.5	73.4	74.1	76.6	76.5	78.2	76.2	60.5	63.6	63.9	63.4
3rd Trimester	4.9	4.5	4.4	4.1	4.1	4.3	5.0	6.9	6.9	7.4	6.8
No Care	3.2	2.5	2.9	2.6	2.5	1.9	2.1	3.2	3.0	3.4	4.1
Prenatal visits											
1-4	4.9	4.4	4.5	4.2	4.4	4.5	4.8	5.4	5.3	5.6	5.3
≥5	91.8	93.0	92.4	93.0	92.7	93.3	93.0	90.2	90.9	89.9	88.8
≥9	71.2	73.3	73.4	75.0	76.3	77.0	77.0	73.5	73.0	72.0	71.6
≥13	25.7	26.7	26.3	27.2	28.8	29.1	29.0	26.2	26.1	25.8	26.8
Medical risks/ Complications^b	41.4	43.7	46.4	48.0	44.2	52.6	54.6	34.2	40.0	41.6	43.0
Gestational age^c											
Preterm (<37 weeks)	9.8	9.9	9.7	9.5	9.1	9.4	9.3	9.2	9.0	9.2	9.3
Birth weight											
<2,500 grams	6.6	6.7	6.6	6.8	6.4	6.8	6.6	6.7	6.9	7.1	7.0
<1,500 grams	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3
Child's sex											
Male	51.4	51.0	51.1	50.5	51.4	51.2	51.3	51.3	50.9	50.9	50.6
Female	48.6	49.0	48.9	49.5	48.6	48.8	48.7	48.7	49.1	49.1	49.4
Plurality											
Multiple births	2.2	2.2	2.2	2.3	2.1	2.1	2.4	2.2	2.4	2.5	2.6
Caesarean delivery	24.6	25.7	25.8	25.9	26.1	26.0	26.7	26.1	26.3	26.3	25.6
Place of delivery											
Hospital ^d	99.7	99.8	99.7	99.7	99.6	99.6	99.6	99.5	99.5	99.4	99.3
Attendant at birth											
Midwife ^e	4.9	5.6	6.0	5.7	5.3	6.1	5.9	7.4	9.8	10.9	11.8
Previous live births											
1 or more	66.4	67.4	67.2	66.9	66.6	66.2	67.0	67.4	67.1	67.7	66.8

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

^d Hospital, clinic, medical center or maternity home.

^e 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^a, ARIZONA, 2007-2017
(HISPANIC OR LATINO MOTHERS)**

Characteristic	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Number of LBW births	3,021	2,866	2,546	2,342	2,075	2,256	2,199	2,247	2,364	2,400	2,339
Age of mother											
≤19 years	19.4	18.7	18.1	17.1	16.6	15.0	12.9	11.7	10.9	9.9	10.0
≥30 years	28.5	29.0	31.7	32.6	29.3	32.3	31.7	33.0	35.4	35.0	34.7
Marital status											
Unmarried	60.2	58.6	58.7	60.6	61.7	61.9	61.5	58.1	58.5	58.4	58.4
Mother's education											
<9 years	15.7	12.2	12.2	9.5	9.3	8.5	7.2	7.4	6.4	7.0	5.6
Prenatal care began											
1st Trimester	69.7	74.8	75.9	76.7	77.2	76.5	74.8	59.3	60.3	62.2	61.9
3rd Trimester	4.0	3.2	2.7	3.2	2.7	3.2	3.8	4.9	4.4	5.0	4.9
No Care	6.0	4.7	5.2	3.9	4.3	3.7	4.2	5.8	5.6	6.1	7.1
Prenatal visits											
1-4	10.7	9.6	9.5	9.2	9.7	10.6	9.5	10.5	9.5	10.7	10.7
≥5	83.1	85.5	85.0	86.2	85.4	85.4	85.9	82.2	83.4	80.7	79.9
≥9	54.4	58.5	58.2	58.7	59.9	59.9	63.7	55.2	54.0	52.2	52.5
≥13	20.7	22.5	21.3	21.4	23.6	21.9	24.1	16.3	15.7	16.3	17.2
Medical risks											
Complications^b	62.2	67.1	69.0	72.8	66.4	73.8	70.3	57.1	61.1	61.0	65.2
Gestational age^c											
Preterm (<37 weeks)	71.6	72.0	71.1	70.9	71.4	72.0	71.5	72.0	69.4	68.6	69.9
Birth weight											
<1,500 grams	18.2	16.3	17.1	15.6	16.6	16.8	16.7	16.6	16.2	16.3	17.9
<1,000 grams	9.8	7.4	8.4	7.3	8.9	8.2	8.0	8.9	7.7	8.1	9.1
Child's sex											
Male	49.3	48.9	48.5	47.8	46.7	51.1	49.9	49.3	48.3	50.5	48.2
Female	50.7	51.1	51.5	52.2	53.3	48.9	50.1	50.7	51.7	49.5	51.8
Plurality											
Multiple births	19.5	18.3	18.6	18.8	18.1	18.5	21.3	18.0	18.4	19.5	20.9
Caesarean delivery	40.1	41.4	42.6	42.5	44.4	43.3	46.5	42.9	45.3	45.4	44.5
Place of delivery											
Hospital ^d	99.7	99.9	99.9	99.9	99.6	99.8	99.8	99.9	99.7	99.5	99.5
Attendant at birth											
Midwife ^e	2.4	2.9	2.6	3.0	2.4	3.0	2.5	7.0	9.1	9.6	11.3
Previous live births											
1 or more	63.8	62.2	63.0	63.0	62.8	63.9	63.4	63.7	64.0	63.1	63.1

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

^d Hospital, clinic, medical center or maternity home.

^e 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^a, ARIZONA, 2007-2017
(BLACK OR AFRICAN AMERICAN MOTHERS)

Characteristic	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Number of births	4,165	4,301	4,378	4,328	4,366	4,715	4,726	4,522	4,361	4,388	4,595
Age of mother											
≤19 years	14.9	15.3	13.8	13.0	12.8	11.5	10.7	8.7	7.2	7.2	7.2
≥30 years	27.0	26.7	28.2	28.3	30.3	30.2	30.6	34.1	36.0	35.0	37.1
Marital status											
Unmarried	61.9	62.6	62.7	63.1	63.6	64.8	63.7	62.5	63.2	61.3	60.6
Mother's education											
<9 years	4.4	5.0	4.4	5.2	4.3	4.3	3.7	3.3	4.1	4.3	4.7
Prenatal care began											
1st Trimester	76.8	77.6	80.3	81.6	80.4	79.9	78.2	61.4	62.2	62.8	61.4
3rd Trimester	3.7	3.7	2.9	3.3	3.0	3.4	4.5	7.7	6.9	7.9	6.5
No Care	2.7	2.1	1.6	1.7	1.6	1.1	1.3	2.8	2.5	2.2	3.3
Prenatal visits											
1-4	4.4	3.7	3.6	4.1	4.0	4.5	4.7	6.2	6.4	6.3	5.6
≥5	92.8	93.9	94.5	94.0	93.4	94.1	93.8	89.7	89.9	89.6	88.2
≥9	75.0	75.4	78.6	78.4	79.1	78.5	79.1	72.1	71.5	70.2	69.2
≥13	28.2	28.5	29.5	30.4	33.6	32.7	31.0	24.7	25.4	25.7	26.3
Medical risks											
Complications^b	46.4	50.3	53.4	56.0	52.0	56.6	57.2	36.0	44.3	44.3	45.8
Gestational age^c											
Preterm (<37 weeks)	14.9	14.0	14.4	12.3	12.7	11.9	11.8	12.1	12.2	12.4	12.4
Birth weight											
<2,500 grams	12.8	11.7	12.8	11.4	12.5	11.7	11.1	11.9	12.3	12.0	12.4
<1,500 grams	2.6	2.6	2.8	2.6	2.5	2.3	2.0	2.5	2.3	2.4	2.3
Child's sex											
Male	51.8	52.4	52.0	50.8	50.5	50.5	51.8	51.9	51.5	50.7	51.8
Female	48.2	47.6	48.0	49.2	49.5	49.5	48.2	48.1	48.5	49.3	48.2
Plurality											
Multiple births	3.6	4.1	4.2	3.3	3.6	4.1	3.7	4.7	3.9	3.3	4.0
Caesarean delivery	30.3	30.5	30.9	30.7	31.1	31.9	31.4	33.0	32.8	32.4	30.8
Place of delivery											
Hospital ^d	99.6	99.4	99.6	99.5	99.3	99.6	99.3	99.5	99.6	99.1	99.0
Attendant at birth											
Midwife ^e	2.4	3.4	3.2	3.4	2.7	3.5	3.9	8.8	11.7	12.0	13.2
Previous live births											
1 or more	63.2	62.7	62.8	62.8	63.0	63.8	64.6	66.9	66.2	66.2	67.1

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

^d Hospital, clinic, medical center or maternity home.

^e 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^a, ARIZONA, 2007-2017
(BLACK OR AFRICAN AMERICAN MOTHERS)**

Characteristic	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Number of LBW births	532	503	559	492	546	551	523	536	535	525	572
Age of mother											
≤19 years	15.8	16.7	13.8	17.5	13.7	10.2	12.8	9.0	6.9	9.1	7.9
≥30 years	28.2	31.8	30.6	27.6	33.5	32.3	33.8	35.8	38.7	33.9	38.6
Marital status											
Unmarried	66.4	65.2	69.8	72.2	67.9	69.0	72.8	67.0	64.9	64.0	64.2
Mother's education											
<9 years	5.5	4.4	3.2	4.3	2.9	2.9	3.1	2.4	3.0	4.6	3.0
Prenatal care began											
1st Trimester	77.4	77.7	79.4	82.5	80.0	78.8	77.8	59.1	63.9	62.5	61.0
3rd Trimester	3.4	3.4	2.5	1.6	3.1	3.4	3.3	4.7	4.5	5.1	2.8
No Care	3.6	4.4	4.1	2.4	2.4	2.4	3.4	6.2	5.0	4.6	6.5
Prenatal visits											
1-4	9.0	6.8	7.3	9.3	9.5	10.3	8.6	11.2	12.9	10.9	9.3
≥5	87.4	88.5	88.0	87.8	86.3	86.0	87.2	81.2	80.4	81.0	80.6
≥9	60.0	62.0	64.0	60.4	64.1	64.4	66.7	55.2	55.7	55.6	51.6
≥13	22.9	21.3	23.8	26.6	29.3	27.6	25.2	20.1	22.2	16.0	20.1
Medical risks											
Complications^b	67.7	68.4	72.8	74.0	68.7	68.4	70.0	56.7	57.9	59.4	61.0
Gestational age^c											
Preterm (<37 weeks)	70.1	71.6	72.1	68.9	65.6	65.7	66.9	68.3	65.0	68.2	65.2
Birth weight											
<1,500 grams	20.3	22.1	22.2	23.0	20.0	20.0	18.0	21.5	18.5	20.0	18.4
<1,000 grams	10.2	13.1	10.9	12.6	10.8	10.3	10.3	12.9	10.5	11.4	11.4
Child's sex											
Male	47.9	49.7	49.7	42.3	46.0	45.7	47.2	45.9	46.9	46.1	44.9
Female	52.1	50.3	50.3	57.7	54.0	54.3	52.8	54.1	53.1	53.9	55.1
Plurality											
Multiple births	18.6	19.1	22.0	19.7	17.8	21.2	21.4	22.2	22.8	15.6	20.6
Caesarean delivery											
	43.0	44.9	45.6	43.9	43.4	45.6	42.8	45.9	47.9	47.6	44.8
Place of delivery											
Hospital ^d	100.0	99.8	99.6	99.4	99.8	100.0	99.0	99.8	100.0	99.6	99.5
Attendant at birth											
Midwife ^e	1.1	2.0	1.3	2.0	2.6	0.9	1.9	8.6	10.3	11.2	12.2
Previous live births											
1 or more	64.5	62.8	61.4	59.3	62.5	65.2	61.8	66.6	64.9	60.6	68.9

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

^d Hospital, clinic, medical center or maternity home.

^e 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^a, ARIZONA, 2007-2017
(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)

Characteristic	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Number of births	6,408	6,362	6,170	5,815	5,830	5,569	5,476	5,145	4,984	5,030	4,866
Age of mother											
≤19 years	20.1	18.6	19.0	17.0	16.9	16.0	14.2	11.7	11.4	10.7	10.7
≥30 years	24.0	24.0	23.8	24.1	25.0	25.2	26.6	26.7	28.9	31.3	31.0
Marital status											
Unmarried	75.9	75.8	76.9	77.7	77.1	78.5	79.2	78.9	79.6	78.1	77.9
Mother's education											
<9 years	3.0	3.2	2.8	2.8	2.5	2.5	2.4	2.2	2.1	1.9	1.7
Prenatal care began											
1st Trimester	65.9	65.1	66.0	69.4	68.6	68.2	68.7	58.4	58.5	60.7	59.4
3rd Trimester	6.6	7.8	7.4	6.2	6.1	7.0	6.1	7.5	8.4	8.2	8.4
No Care	3.2	3.1	2.1	2.3	2.5	2.0	2.4	2.9	4.3	4.0	4.1
Prenatal visits											
1-4	8.8	9.3	8.6	8.8	9.0	9.1	9.5	10.5	10.4	11.0	11.5
≥5	87.7	87.4	88.9	88.5	87.8	88.4	87.7	85.0	84.2	83.9	83.0
≥9	61.2	59.9	61.5	64.0	62.8	64.0	63.7	59.3	60.0	59.9	58.8
≥13	19.4	18.7	17.9	18.8	19.7	20.7	21.3	18.2	18.7	19.0	19.9
Medical risks/ Complications^b	57.2	54.8	54.3	55.3	53.8	60.4	61.7	45.9	52.4	53.5	56.1
Gestational age^c											
Preterm (<37 weeks)	10.4	9.8	9.6	10.6	9.0	9.7	9.7	8.2	9.6	9.9	10.9
Birth weight											
<2,500 grams	6.6	6.7	6.4	7.0	6.9	6.7	7.2	6.1	7.3	7.2	7.7
<1,500 grams	1.0	1.1	0.9	1.2	1.3	1.1	1.0	0.9	1.3	1.3	1.3
Child's sex											
Male	50.2	50.1	50.4	50.4	50.7	50.5	51.6	49.7	50.8	50.4	51.6
Female	49.8	49.9	49.6	49.6	49.3	49.5	48.4	50.3	49.2	49.6	48.4
Plurality											
Multiple births	1.4	1.5	1.6	1.8	1.5	1.6	1.8	1.3	1.8	2.2	2.2
Caesarean delivery	22.9	23.1	23.2	22.9	23.1	23.8	24.0	22.7	22.6	23.5	24.4
Place of delivery											
Hospital ^d	99.7	99.7	99.7	99.6	99.6	99.7	99.7	99.7	99.4	99.5	99.5
Attendant at birth											
Midwife ^e	29.3	28.0	27.6	28.6	27.9	27.8	27.6	10.6	9.1	9.8	10.0
Previous live births											
1 or more	66.5	66.9	66.6	67.3	66.5	67.6	68.5	70.0	71.0	71.4	70.5

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

^d Hospital, clinic, medical center or maternity home.

^e 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^a, ARIZONA, 2007-2017
(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)**

Characteristic	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Number of LBW births	426	428	396	406	403	372	393	315	365	363	376
Age of mother											
≤19 years	22.8	16.8	18.2	15.3	18.9	18.0	10.2	10.8	10.1	8.5	10.4
≤30 years	28.4	26.6	28.8	29.6	26.8	33.1	29.5	30.8	34.5	35.5	38.0
Marital status											
Unmarried	75.8	80.1	79.3	75.4	81.1	80.9	82.2	78.4	81.9	75.2	79.8
Mother's education											
<9 years	2.1	4.4	2.5	3.0	2.0	3.2	5.1	2.9	3.6	1.1	2.9
Prenatal care began											
1st Trimester	67.4	66.8	65.2	69.7	70.0	69.1	66.9	46.7	48.5	54.0	54.0
3rd Trimester	5.4	6.8	5.8	4.2	4.0	4.3	8.4	5.1	6.6	6.3	4.3
No Care	8.5	7.5	4.3	6.7	6.7	5.9	4.3	8.6	13.7	9.9	10.1
Prenatal visits											
1-4	11.5	16.4	12.1	13.5	11.4	15.1	17.6	15.6	15.3	18.5	15.2
≥5	79.6	75.7	81.8	78.8	79.7	78.2	76.8	72.7	66.6	69.4	70.5
≥9	46.2	44.6	52.0	47.8	47.4	51.6	50.6	40.6	40.5	41.3	40.2
≥13	15.7	16.6	16.9	15.5	13.9	16.4	15.3	10.2	11.2	12.9	14.9
Medical risks/ Complications^b	69.7	66.1	69.4	74.4	65.5	70.2	71.2	65.7	68.5	70.8	71.3
Gestational age^c											
Preterm (<37 weeks)	71.8	71.7	69.7	74.9	69.0	79.0	70.7	65.1	69.9	71.1	72.1
Birth weight											
<1,500 grams	15.3	16.8	14.4	16.7	18.4	16.7	13.7	14.6	18.1	17.6	16.8
<1,000 grams	7.5	7.9	8.1	7.4	9.2	8.9	4.6	7.9	8.5	7.7	6.4
Child's sex											
Male	46.0	45.6	48.2	54.9	46.4	49.2	51.4	44.4	45.8	52.1	50.3
Female	54.0	54.4	51.8	45.1	53.6	50.8	48.6	55.6	54.2	47.9	49.7
Plurality											
Multiple births	11.3	13.3	13.1	15.5	11.7	15.6	12.7	9.8	13.4	17.4	10.6
Caesarean delivery	40.1	39.3	39.4	44.6	34.5	47.3	44.3	41.9	43.8	43.3	47.3
Place of delivery											
Hospital ^d	99.8	99.8	99.5	99.8	99.5	99.7	100.0	100.0	98.6	99.2	99.2
Attendant at birth											
Midwife ^e	14.3	10.7	11.1	11.1	10.7	8.9	11.5	10.2	7.9	8.5	11.4
Previous live births											
1 or more	59.9	66.4	64.1	67.2	64.3	69.6	68.7	69.8	70.4	69.7	68.4

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

^d Hospital, clinic, medical center or maternity home.

^e 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^a, ARIZONA, 2007-2017
(ASIAN OR PACIFIC ISLANDER MOTHERS)

Characteristic	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Number of births	3,412	3,425	3,396	3,293	3,505	3,625	3,466	3,169	3,235	3,350	3,327
Age of mother											
≤19 years	3.0	3.3	2.6	3.1	3.2	2.2	2.3	1.8	1.9	1.5	1.7
≥30 years	53.9	55.9	55.6	55.9	57.4	57.3	59.2	60.4	60.5	60.8	61.9
Marital status											
Unmarried	17.6	17.4	15.8	17.4	17.3	17.3	16.0	15.2	14.3	15.4	14.6
Mother's education											
<9 years	1.6	2.3	2.2	3.3	3.1	3.1	2.7	3.0	3.1	3.0	2.9
Prenatal care began											
1st Trimester	86.5	86.4	88.1	88.1	86.5	87.1	86.4	70.5	71.8	73.2	72.2
3rd Trimester	2.1	3.1	1.9	2.3	2.3	2.0	2.9	4.5	5.0	4.3	4.7
No Care	1.5	1.3	1.3	1.2	1.0	0.7	0.7	1.4	1.2	1.3	1.9
Prenatal visits											
1-4	1.8	2.4	2.1	1.9	2.3	2.4	2.6	2.6	3.6	3.1	2.8
≥5	96.6	96.2	96.4	96.7	96.2	96.8	96.6	94.5	93.9	93.7	93.9
≥9	83.9	83.2	85.6	86.7	84.2	86.2	85.6	82.3	80.6	79.8	81.2
≥13	35.3	33.5	35.6	36.0	37.9	37.2	39.2	33.7	31.6	29.9	34.7
Medical risks/											
Complications^b	45.4	46.4	48.1	51.5	47.4	52.9	57.4	37.9	42.2	44.4	47.0
Gestational age^c											
Preterm (<37 weeks)	9.6	10.0	10.0	9.9	9.0	8.4	8.9	8.0	9.4	8.7	9.6
Birth weight											
<2,500 grams	8.0	9.1	8.8	8.5	8.3	7.2	7.9	8.1	9.0	9.3	9.5
<1,500 grams	1.0	1.5	1.5	1.4	1.1	0.8	1.1	1.2	1.2	1.4	1.1
Child's sex											
Male	53.2	51.3	51.7	50.7	52.4	52.1	51.4	51.5	51.5	51.7	51.3
Female	46.8	48.7	48.3	49.3	47.6	47.9	48.6	48.5	48.5	48.3	48.7
Plurality											
Multiple births	2.3	3.6	2.9	2.5	3.3	2.5	3.2	3.2	3.3	3.7	3.4
Caesarean delivery											
	30.0	32.0	32.6	32.8	33.0	32.1	33.2	32.4	34.0	32.5	32.3
Place of delivery											
Hospital ^d	99.5	99.4	99.4	99.6	99.3	99.2	99.1	99.3	99.4	99.3	99.3
Attendant at birth											
Midwife ^e	1.7	2.7	3.0	2.8	3.1	4.0	3.3	10.0	10.4	11.1	11.8
Previous live births											
1 or more	54.5	52.9	54.8	55.5	54.6	55.5	56.2	53.4	54.0	54.1	56.6

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

^d Hospital, clinic, medical center or maternity home.

^e 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^a, ARIZONA, 2007-2017
(ASIAN OR PACIFIC ISLANDER MOTHERS)

Characteristic	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Number of LBW births	272	311	299	280	292	262	275	256	291	313	315
Age of mother											
≤19 years	2.2	3.5	3.3	5.4	5.1	5.0	1.5	1.2	1.7	1.0	1.9
≤30 years	55.5	59.5	54.8	52.1	58.6	64.9	66.2	64.1	61.5	63.3	63.5
Marital status											
Unmarried	16.9	21.5	20.4	18.9	18.2	18.3	12.4	14.1	15.1	13.7	17.1
Mother's education											
<9 years	1.1	2.6	1.7	3.2	4.1	3.8	3.6	4.3	2.7	3.2	2.9
Prenatal care began											
1st Trimester	83.8	82.6	87.0	84.3	83.9	87.8	86.9	70.3	72.9	74.4	74.0
3rd Trimester	1.5	3.5	3.0	2.9	2.1	0.4	3.6	4.7	3.8	2.9	2.5
No Care	3.7	4.2	2.0	1.4	2.7	0.8	0.7	3.5	2.7	2.9	2.5
Prenatal visits											
1-4	4.0	7.7	7.4	6.8	4.8	2.3	6.2	4.7	8.6	7.0	4.4
≥5	92.3	88.1	90.0	91.4	92.5	96.9	93.1	88.7	86.9	87.2	92.1
≥9	67.6	69.8	72.6	70.7	72.9	78.6	73.5	66.8	64.6	67.7	70.5
≥13	29.4	34.1	34.4	27.1	30.8	32.8	31.6	25.4	29.6	22.0	28.3
Medical risks/											
Complications^b	66.5	61.1	70.2	74.3	68.8	72.5	73.8	54.7	56.0	61.0	67.9
Gestational age^c											
Preterm (<37 weeks)	68.0	60.5	66.2	65.4	64.7	63.0	61.1	60.2	60.1	60.7	61.9
Birth weight											
<1,500 grams	12.9	16.1	17.4	16.4	12.7	11.5	13.5	15.2	13.1	15.3	11.7
<1,000 grams	4.8	9.3	8.7	7.9	6.2	5.3	6.2	6.6	6.5	8.6	6.0
Child's sex											
Male	47.4	51.8	50.2	45.0	46.9	52.7	46.5	49.2	48.8	45.4	46.0
Female	52.6	48.2	49.8	55.0	53.1	47.3	53.5	50.8	51.2	54.6	54.0
Plurality											
Multiple births	21.7	26.7	22.4	18.9	25.7	20.2	23.6	24.2	25.1	24.0	20.3
Caesarean delivery	40.4	49.8	51.5	45.4	51.4	44.3	53.1	47.7	51.5	47.0	50.8
Place of delivery											
Hospital ^d	100.0	99.7	100.0	100.0	99.7	100.0	100.0	100.0	100.0	99.7	99.7
Attendant at birth											
Midwife ^e	1.1	2.6	1.7	1.1	0.3	2.7	2.2	12.1	12.0	8.6	12.4
Previous live births											
1 or more	47.1	51.8	48.8	49.6	55.5	53.1	56.4	46.9	54.6	50.8	47.6

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

^d Hospital, clinic, medical center or maternity home.

^e Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-16
SINGLE AND PLURAL LIVE BIRTHS BY BIRTHWEIGHT, ARIZONA RESIDENTS, 2007-2017**

Weight in grams	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Under 1,000, total	589	538	523	439	496	480	433	509	448	492	472
Single	450	419	431	346	379	383	332	384	358	380	375
Plural	139	119	92	93	117	97	101	125	90	112	97
1,000-1,499, total	634	618	577	505	505	506	494	509	523	519	492
Single	452	431	420	386	374	387	341	379	386	395	369
Plural	182	187	157	119	131	119	153	130	137	124	123
1,500-1,999, total	1,362	1,360	1,211	1,194	1,131	1,197	1,152	1,156	1,133	1,166	1,105
Single	935	944	835	823	794	814	830	803	793	808	784
Plural	427	416	376	371	337	383	322	353	340	358	321
2,000-2,499, total	4,700	4,510	4,262	4,017	3,817	3,763	3,770	3,895	3,988	4,009	4,040
Single	3,762	3,598	3,432	3,178	3,043	2,994	2,920	3,063	3,186	3,124	3,186
Plural	938	912	830	839	774	769	850	832	802	885	854
2,500-3,999, total	87,739	84,904	79,423	74,680	72,777	73,096	72,494	73,627	72,240	71,613	69,200
Single	86,631	83,674	78,297	73,596	71,741	72,085	71,377	72,449	71,109	70,450	67,940
Plural	1,108	1,230	1,126	1,084	1,036	1,011	1,117	1,178	1,131	1,163	1,260
4,000 and over, total	7,640†	7,270†	6,601	6,200†	6,450†	6,680†	6,540†	6,900†	6,630†	6,570†	6,310†
Single	7,634	7,267	6,601	6,194	6,450	6,674	6,537	6,900	6,633	6,569	6,310
Plural	*	*	0	*	*	*	*	*	*	*	*
All weights, total^a	102,687	99,215	92,616	87,053	85,190	85,725	84,963	86,648	85,024	84,404	81,664
Single	99,889	96,347	90,034	84,535	82,793	83,342	82,415	84,014	82,501	81,752	79,005
Plural	2,800†	2,870†	2,582	2,510†	2,400†	2,380†	2,550†	2,630†	2,518	2,647	2,657

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 Includes records with unknown weight and/or plurality.

**TABLE 1B-17
RESIDENT BIRTHS BY MONTH OF OCCURRENCE, ARIZONA, 2007-2017**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2007	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
Percent	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
2008	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
Percent	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
2009	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
Percent	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
2010	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 ^a
Percent	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
2011	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
Percent	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
2012	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
Percent	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
2013	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
Percent	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
2014	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
Percent	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
2015	7,169	6,660	7,175	6,613	6,814	6,770	7,030	7,372	7,685	7,487	6,940	7,309	85,024
Percent	8.4	7.8	8.4	7.8	8.0	8.0	8.3	8.7	9.0	8.8	8.2	8.6	100.0
2016	7,053	6,729	6,830	6,558	6,724	6,754	7,045	7,711	7,687	7,192	6,898	7,223	84,404
Percent	8.4	8.0	8.1	7.8	8.0	8.0	8.3	9.1	9.1	8.5	8.2	8.6	100.0
2017	6,931	6,147	6,774	6,285	6,507	6,613	6,964	7,402	7,200	7,299	6,791	6,751	81,664
Percent	8.5	7.5	8.3	7.7	8.0	8.1	8.5	9.1	8.8	8.9	8.3	8.3	100.0

Note: ^a Includes 7 records where month of birth is missing.

**TABLE 1B-18
BIRTHS BY DAY AND MONTH OF OCCURRENCE, ARIZONA RESIDENTS, 2017**

TOTAL	Month of birth											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL	81,664	6,147	6,774	6,285	6,507	6,613	6,964	7,402	7,200	7,299	6,791	6,751
Day of birth												
1	163	257	251	171	204	235	204	267	300	194	235	222
2	192	248	223	156	203	238	166	228	207	233	249	201
3	247	236	245	224	242	216	236	250	190	239	240	150
4	231	190	170	226	228	156	191	246	221	283	204	233
5	248	191	158	214	231	238	216	185	244	271	166	235
6	244	219	216	238	190	235	230	201	276	249	243	241
7	198	241	232	206	160	213	315	244	245	213	260	224
8	177	241	239	145	213	224	222	235	262	201	245	258
9	221	250	250	169	217	255	187	255	200	223	250	214
10	244	261	228	234	231	189	223	283	189	225	252	159
11	234	205	205	219	235	163	269	271	223	276	196	228
12	244	165	196	226	260	214	258	179	266	262	190	244
13	253	211	214	237	187	236	231	172	255	231	217	234
14	218	223	226	231	161	245	244	224	291	196	240	235
15	178	229	227	171	208	215	202	231	278	170	248	238
16	237	236	240	157	210	246	184	256	225	251	256	215
17	232	224	222	218	230	209	249	266	194	288	259	186
18	264	180	199	225	232	158	226	274	245	258	204	237
19	226	153	177	235	237	208	257	183	269	251	167	257
20	253	222	235	238	182	256	222	189	272	240	237	244
21	211	245	240	246	164	200	248	257	267	183	260	242
22	184	233	235	186	233	231	209	249	274	199	225	240
23	226	247	212	164	223	230	167	274	206	233	197	207
24	239	226	214	241	242	184	250	257	149	278	188	162
25	236	183	159	231	232	158	241	288	235	233	177	145
26	255	173	174	218	212	234	267	206	232	266	161	198
27	236	238	202	232	180	264	231	194	287	260	254	242
28	201	220	255	246	155	271	234	264	236	213	261	250
29	169		255	202	151	229	183	241	244	179	273	235
30	225		225	179	206	263	183	269	218	255	237	198
31	245		250		248		219	264		246		177

**TABLE 1B-19
LIVE BIRTHS BY MOTHER'S AGE AND FATHER'S AGE, ARIZONA, 2017**

Father's age group	Mother's age group										
	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known	TOTAL
<15	*	0	0	0	0	0	0	0	0	0	0†
15-17	8	276	119	22	*	0	0	0	0	0	430†
18-19	*	303	860	407	35	8	*	0	0	0	1,620†
20-24	*	145	1,515	7,510	1,372	201	55	9	0	0	10,810†
25-29	0	7	235	5,368	10,830	2,054	372	53	*	0	18,920†
30-34	0	*	65	1,374	6,997	9,573	1,686	163	*	*	19,870†
35-39	0	0	20	412	1,956	5,334	4,345	421	24	0	12,512
40-44	0	0	*	132	557	1,389	2,103	775	42	*	5,000†
45-49	0	0	*	55	192	448	619	414	67	0	1,800†
50-54	0	0	*	24	57	134	187	123	35	0	560†
55+	0	0	*	9	37	68	74	43	27	0	260†
Unknown	25	547	898	3,134	2,698	1,538	818	192	34	0	9,884
TOTAL	40†	1,280†	3,730†	18,447	24,740†	20,747	10,260†	2,193	240†	0†	81,664

**TABLE 1B-20
LIVE BIRTHS BY MOTHER'S RACE/ETHNICITY AND FATHER'S RACE/ETHNICITY, ARIZONA, 2017**

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	28,979	9,641	1,606	1,378	833	42,437
Hispanic or Latino	4,697	22,080	290	591	209	27,867
Black or African American	1,215	907	2,664	91	88	4,965
American Indian or Alaska Native	303	348	17	2,773	16	3,457
Asian or Pacific Islander	491	215	18	33	2,181	2,938
TOTAL	35,685	33,191	4,595	4,866	3,327	81,664

**TABLE 1B-21
LIVE BIRTHS BY MOTHER'S AND FATHER'S EDUCATION, ARIZONA, 2017**

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	886	612	535	213	127	60	27	15	2,475
Some High School	482	3,770	3,007	1,426	362	240	72	49	9,408
High School/ GED	391	2,701	9,263	4,674	1,478	1,398	411	77	20,393
Some College	96	924	3,110	6,872	1,747	2,424	814	31	16,018
Associate Degree	53	200	940	1,542	1,129	1,245	421	10	5,540
Bachelor's Degree	39	115	803	1,740	1,034	5,112	2,299	13	11,155
Postgraduate Education	12	36	242	538	366	2,206	2,575	*	5,978
Unknown	540	3,100	3,474	2,127	503	315	114	524	10,697
TOTAL	2,499	11,458	21,374	19,132	6,746	13,000	6,733	722	81,664

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; 722 cases were missing mother's education, 10,697 cases were missing father's education.

**TABLE 1B-22
TOTAL BIRTHS AND RATIOS OF BIRTH BY MOTHER'S MARITAL STATUS^a,
AGE GROUP, AND RACE/ETHNICITY, ARIZONA, 2017**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	
All racial/ ethnic groups	Married	Count	44,333	0	43	479	6,051	14,068	14,699	7,368	1,490	135
		Percent	54.3%	0.0%	3.4%	12.9%	32.8%	56.9%	70.8%	71.8%	67.9%	57.4%
	Unmarried	Count	36,298	36	1,235	3,234	12,243	10,366	5,788	2,719	640	37
		Percent	44.4%	100.0%	96.5%	86.8%	66.4%	41.9%	27.9%	26.5%	29.2%	15.7%
	Unknown	Count	1,030†	0	*	12	153	302	260	175	63	63
		Percent	1.3%	0.0%	**	0.3%	0.8%	1.2%	1.3%	1.7%	2.9%	26.8%
	TOTAL	Count	81,664	36	1,280	3,725	18,447	24,736	20,747	10,262	2,193	235
		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	24,167	0	6	150	2,777	7,533	8,664	4,221	744	72
		Percent	67.7%	0.0%	2.7%	16.0%	43.3%	68.6%	80.4%	81.3%	74.1%	49.7%
	Unmarried	Count	10,960†	*	217	781	3,559	3,303	1,978	882	225	12
		Percent	30.7%	**	96.9%	83.2%	55.5%	30.1%	18.4%	17.0%	22.4%	8.3%
	Unknown	Count	560†	0	*	8	78	147	137	90	35	61
		Percent	1.6%	0.0%	**	0.9%	1.2%	1.3%	1.3%	1.7%	3.5%	42.1%
	TOTAL	Count	35,690†	*	224	939	6,414	10,983	10,779	5,193	1,004	145
		Percent	100.0%	**	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Hispanic or Latino	Married	Count	14,570	0	31	285	2,763	4,836	4,001	2,136	484	34
		Percent	43.9%	0.0%	3.8%	13.3%	29.8%	48.9%	59.6%	61.3%	60.9%	63.0%
	Unmarried	Count	18,280	21	784	1,848	6,456	4,932	2,641	1,290	290	18
		Percent	55.1%	100.0%	96.1%	86.5%	69.5%	49.9%	39.3%	37.0%	36.5%	33.3%
	Unknown	Count	340†	0	*	*	64	119	74	56	21	*
		Percent	1.0%	0.0%	**	**	0.7%	1.2%	1.1%	1.6%	2.6%	**
	TOTAL	Count	33,191	21	816	2,137	9,283	9,887	6,716	3,482	795	54
		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	1,760†	0	*	17	220	547	589	290	83	14
		Percent	38.3%	0.0%	**	6.7%	19.5%	38.2%	55.7%	57.4%	65.9%	100.0%
	Unmarried	Count	2,780†	*	69	236	907	871	447	208	41	0
		Percent	60.6%	**	97.2%	93.3%	80.2%	60.8%	42.2%	41.2%	32.5%	0.0%
	Unknown	Count	50†	0	0	0	*	14	22	7	*	0
		Percent	1.1%	0.0%	0.0%	0.0%	**	1.0%	2.1%	1.4%	**	0.0%
	TOTAL	Count	4,600†	*	71	253	1,131	1,432	1,058	505	126	14
		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	1,010†	0	*	13	139	348	298	162	45	*
		Percent	20.7%	0.0%	**	3.7%	10.4%	23.1%	31.8%	35.3%	40.9%	**
	Unmarried	Count	3,790†	8	161	335	1,188	1,141	616	278	61	*
		Percent	77.9%	100.0%	98.8%	96.3%	89.1%	75.8%	65.7%	60.6%	55.5%	**
	Unknown	Count	70†	0	0	0	7	16	23	19	*	0
		Percent	1.4%	0.0%	0.0%	0.0%	0.5%	1.1%	2.5%	4.1%	**	0.0%
	TOTAL	Count	4,870†	8	163	348	1,334	1,505	937	459	110	*
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**
Asian or Pacific Islander	Married	Count	2,830†	0	*	14	152	804	1,147	559	134	14
		Percent	84.9%	0.0%	**	29.2%	53.3%	86.5%	91.2%	89.7%	84.8%	70.0%
	Unmarried	Count	490†	*	*	34	133	119	106	61	23	6
		Percent	14.6%	**	**	70.8%	46.7%	12.8%	8.4%	9.8%	14.6%	30.0%
	Unknown	Count	10†	0	0	0	0	6	*	*	*	0
		Percent	0.4%	0.0%	0.0%	0.0%	0.0%	0.6%	**	**	**	0.0%
	TOTAL	Count	3,330†	*	6	48	285	929	1,257	623	158	20
		Percent	100.0%	**	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

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; ^a Beginning with data year 2015, the coding of marital status has
changed as such unmarried category includes divorced.

**TABLE 1B-23
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND NUMBER OF
PREVIOUS LIVE BIRTHS, ARIZONA, 2017**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un- known
All racial/ ethnic groups	TOTAL	81,664	40†	1,280†	3,730†	18,447	24,736	20,747	10,262	2,193	235	0†
	None	29,025	35	1,188	3,005	9,275	7,980	5,149	1,945	391	56	*
	1	24,630†	*	86	630	6,134	8,082	6,354	2,804	487	48	0
	2	14,760†	0	*	83	2,202	5,095	4,640	2,256	429	49	*
	3	7,440†	0	0	*	624	2,325	2,573	1,553	330	25	0
	4 or more	5,790†	0	0	*	203	1,245	2,022	1,700	556	56	*
	Unknown	30†	0	*	0	9	9	9	*	0	*	0
White non- Hispanic	TOTAL	35,690†	0†	220†	940†	6,414	10,983	10,779	5,193	1,004	145	0†
	None	13,640†	*	209	793	3,623	4,248	3,228	1,247	247	39	*
	1	11,358	0	12	132	2,018	3,720	3,562	1,621	261	32	0
	2	5,980†	0	*	13	574	1,924	2,193	1,059	184	28	*
	3	2,770†	0	0	*	146	767	1,109	602	125	18	0
	4 or more	1,922	0	0	0	46	316	684	661	187	27	*
	Unknown	20†	0	*	0	7	8	*	*	0	*	0
Hispanic or Latino	TOTAL	33,191	20†	820†	2,140†	9,283	9,887	6,716	3,482	795	54	0
	None	11,005	20	765	1,700	4,364	2,524	1,124	419	81	8	0
	1	9,590†	*	49	382	3,224	3,234	1,813	742	140	7	0
	2	6,620†	0	*	53	1,253	2,417	1,840	875	173	10	0
	3	3,450†	0	0	*	336	1,115	1,101	741	149	6	0
	4 or more	2,520†	0	0	*	105	597	835	705	252	23	0
	Unknown	0†	0	0	0	*	0	*	0	0	0	0
Black or African American	TOTAL	4,600†	10†	71	250†	1,131	1,432	1,058	505	126	10†	0
	None	1,510†	*	65	204	530	401	204	81	15	*	0
	1	1,240†	0	6	38	374	416	263	116	25	*	0
	2	831	0	0	7	150	306	245	98	19	6	0
	3	470†	0	0	*	56	178	138	74	24	0	0
	4 or more	540†	0	0	*	21	130	206	135	43	*	0
	Unknown	0†	0	0	0	0	*	*	*	0	0	0
American Indian or Alaska Native	TOTAL	4,870†	8	160†	348	1,334	1,505	937	459	110	0†	0
	None	1,432	8	144	270	588	274	90	50	8	0	0
	1	1,215	0	18	68	438	442	178	59	12	0	0
	2	910†	0	*	10	196	368	223	95	14	0	0
	3	600†	0	0	0	80	234	177	87	18	*	0
	4 or more	710†	0	0	0	31	187	268	168	58	*	0
	Unknown	0†	0	0	0	*	0	*	0	0	0	0
Asian or Pacific Islander	TOTAL	3,330†	0†	10†	48	285	929	1,257	623	158	20†	0
	None	1,440†	*	*	38	170	533	503	148	40	6	0
	1	1,220†	0	*	10	80	270	538	266	49	8	0
	2	420†	0	0	0	29	80	139	129	39	*	0
	3	148	0	0	0	6	31	48	49	14	0	0
	4 or more	90†	0	0	0	0	15	29	31	16	*	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0

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

**TABLE 1B-24
CHANGES FROM 2007 TO 2017 IN SELECTED CHARACTERISTICS OF NEWBORNS AND ARIZONA WOMEN GIVING BIRTH
BY AREA AND RACE/ETHNICITY**

Characteristics	Urban ^a		Rural		White non-Hispanic		Hispanic or Latino		Black or African American		American Indian or Alaska Native		Asian or Pacific Islander								
	2007	2017	% Change	2007	2017	% Change	2007	2017	% Change	2007	2017	% Change	2007	2017	% Change						
Number of births^b	88,266	70,780	-19.8	14,413	10,873	-24.6	42,216	35,685	-15.5	45,731	33,191	-27.4	4,165	4,595	10.3	6,408	4,866	-24.1	3,412	3,327	-2.5
Per 100 births:																					
Teenage mother^c	12.1	5.8	-52.1	15.8	8.3	-47.5	7.3	3.3	-54.8	17.0	9.0	-47.1	14.9	7.2	-51.7	20.1	10.7	-46.8	3.0	1.7	-43.3
Unwed mother^d	44.3	43.2	-2.5	49.4	52.8	6.9	28.4	30.7	8.1	56.7	55.1	-2.8	61.9	60.6	-2.1	75.9	77.9	2.6	17.6	14.6	-17.0
Early prenatal care^e	78.2	68.7	-12.1	73.7	65.4	-11.3	86.5	74.6	-13.8	70.5	63.4	-10.1	76.8	61.4	-20.1	65.9	59.4	-9.9	86.5	72.2	-16.5
0-4 prenatal visits	5.7	7.0	22.8	7.9	10.5	32.9	3.0	4.7	56.7	8.1	9.5	17.3	7.1	8.9	25.4	12.0	15.6	30.0	3.3	4.7	42.4
C-Section	26.8	27.2	1.5	25.3	24.6	-2.8	28.6	27.2	-4.9	24.6	25.6	4.1	30.3	30.8	1.7	22.9	24.4	6.6	30.0	32.3	7.7
LBW rate	7.0	7.4	5.7	7.5	8.1	8.0	7.1	7.0	-1.4	6.6	7.0	6.1	12.8	12.4	-3.1	6.6	7.7	16.7	8.0	9.5	18.8
Newborn intensive care	5.3	7.2	35.8	4.3	6.1	41.9	5.7	6.8	19.3	4.5	7.1	57.8	7.3	9.3	27.4	4.5	6.5	44.4	4.9	6.9	40.8
Preterm births (< 37 weeks)	10.3	9.2	-10.7	10.0	9.6	-4.0	10.4	8.6	-17.3	9.8	9.3	-5.1	14.9	12.4	-16.8	10.4	10.9	4.8	9.6	9.6	0.0
Births paid for by the AHCCCS^f	51.8	51.6	-0.4	54.8	63.1	15.1	30.5	35.7	17.0	73.4	69.7	-5.0	61.2	71.4	16.7	53.9	68.0	26.2	23.0	26.8	16.5

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

**TABLE 1B-25
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
ARIZONA, 2017**

	TOTAL	Urban ^a	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
TOTAL	81,664	70,780	10,873	10†	35,690†	33,191	4,600†	4,870†	3,330†
Mother's age group	40†	28	8	0	*	21	*	8	*
15-17	1,280	1,054	226	0	224	816	71	163	6
18-19	3,725	3,057	667	*	939	2,137	253	348	48
20-24	18,447	15,552	2,894	*	6,414	9,283	1,131	1,334	285
25-29	24,736	21,344	3,391	*	10,983	9,887	1,432	1,505	929
30-34	20,747	18,425	2,319	*	10,779	6,716	1,058	937	1,257
35-39	10,262	9,162	1,100	0	5,193	3,482	505	459	623
40-44	2,193	1,949	244	0	1,004	795	126	110	158
45+	240†	209	24	*	145	54	14	*	20
Unknown	0†	0	0	*	*	0	0	0	0
Payer for birth	43,366	36,497	6,860	9	12,742	23,143	3,280	3,308	893
AHCCCS	910†	580	328	0	54	43	*	810	0
IHS	33,196	30,161	3,035	0	20,616	8,577	1,128	632	2,243
Private insurance	4,019	3,403	615	*	2,188	1,372	173	99	187
Self-pay	180†	139	35	*	85	56	13	17	*
Unknown	2,499	2,288	210	*	274	1,834	214	81	96
Mother's education	11,458	9,680	1,778	0	2,388	7,109	584	1,194	183
8th Grade or Less	21,374	17,940	3,433	*	7,153	10,796	1,337	1,664	424
Some High School	19,132	16,247	2,885	0	8,844	7,241	1,332	1,300	415
High School / GED	6,746	5,781	964	*	3,503	2,322	370	356	195
Some College	13,000	11,959	1,040	*	8,637	2,671	448	174	1,070
Associate Degree	6,733	6,252	481	0	4,453	1,020	262	75	923
Bachelor's Degree	722	633	82	7	433	198	48	22	21
Postgraduate Education	44,333	39,409	4,924	0	24,167	14,570	1,762	1,008	2,826
Unknown	36,298	30,555	5,738	*	10,958	18,280	2,784	3,789	487
Marital status	1,033	816	211	6	560	341	49	69	14
Married	18,351	15,801	2,545	*	6,818	8,266	1,188	1,143	936
Unmarried ^b	25,204	21,930	3,272	*	11,042	10,245	1,275	1,405	1,237
Inadequate	37,745	32,771	4,971	*	17,699	14,544	2,090	2,265	1,147
Adequate	364	278	85	*	126	136	42	53	7
Excessive	77,065	67,553	9,505	7	32,657	32,345	4,289	4,499	3,275
Unknown	2,244	1,738	506	0	1,406	491	192	137	18
Smoking during pregnancy	1,579	1,121	458	0	1,259	215	63	30	12
Non-smoker	776	368	404	*	363	140	51	200	22
Light smoker (less than 10 cigarettes per day)	7,559	6,518	1,040	*	3,057	3,084	570	528	320
Heavy smoker (10 or more cigarettes per day)	73,740	63,950	9,780	10	32,459	29,979	3,994	4,310	2,998
Unknown	210†	178	29	0	109	61	18	16	*
Length of gestation	158	134	24	0	60	67	13	12	6
<37 weeks	472	413	59	0	152	212	65	24	19
37-41 weeks	492	406	86	0	189	206	40	39	18
42+ weeks	5,145	4,405	739	*	2,166	1,921	467	313	278
Unknown	69,200	59,904	9,286	10	30,028	28,443	3,807	4,053	2,869
Weight at birth	6,312	5,620	692	0	3,119	2,406	213	432	142
<1,000 grams	40†	32	11	0	31	*	*	*	*
1,000-1,499									
1,500-2,499									
2,500-3,999									
4,000+ grams									
Unknown									

**TABLE 1B-25 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
ARIZONA, 2017**

	TOTAL	Urban ^a	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		
Prenatal care											
No care	2,344	2,001	342	*	566	1,363	153	200	62		
1st trimester	55,762	48,650	7,109	*	26,610	21,037	2,823	2,890	2,402		
2nd trimester	14,564	12,329	2,233	*	5,102	6,707	1,019	1,179	557		
3rd trimester	4,639	3,845	791	*	1,512	2,264	297	409	157		
Unknown	4,355	3,955	398	*	1,895	1,820	303	188	149		
Prenatal visits											
No visits	2,344	2,001	342	*	566	1,363	153	200	62		
1-4 visits	3,786	2,982	801	*	1,099	1,774	258	561	94		
5-8 visits	12,417	10,238	2,178	*	4,226	5,724	870	1,175	422		
9-12 visits	36,247	31,871	4,371	*	15,956	14,879	1,973	1,893	1,546		
13+ visits	25,517	22,447	3,070	0	13,300	8,884	1,208	969	1,156		
Unknown	1,353	1,241	111	*	538	567	133	68	47		
Yes	5,763	5,102	658	*	2,442	2,352	426	314	229		
No	75,901	65,678	10,215	8	33,243	30,839	4,169	4,552	3,098		
Method of delivery											
Vaginal	57,545	49,745	7,790	10	24,948	23,807	3,050	3,611	2,129		
C-Section	21,907	19,235	2,671	*	9,722	8,509	1,417	1,185	1,074		
Forceps	316	276	40	0	127	138	22	12	17		
Vacuum	1,894	1,522	372	0	886	737	106	58	107		
Unknown	0†	*	0	0	*	0	0	0	0		
Total	37,467	32,292	5,171	4	16,079	15,746	2,011	2,262	1,369		
Obstetric procedures^c											
Induction of labor	23,668	20,377	3,290	*	10,682	9,495	1,343	1,346	802		
Augmentation of labor	18,768	16,394	2,371	*	7,468	8,445	947	1,154	754		
Cervical cerclage	160†	143	13	0	61	67	17	*	10		
Tocolysis	406	328	78	0	173	143	41	35	14		
External cephalic version successful	70†	53	15	0	37	15	*	9	*		
External cephalic version failed	90†	66	22	0	40	24	*	17	6		
Total	17,845	15,368	2,477	0	6,632	7,499	1,137	1,843	734		
Births with medical risk factors^c											
Pre-existing diabetes	854	707	147	0	259	376	39	150	30		
Gestational diabetes	6,251	5,487	764	0	2,167	2,652	263	720	449		
Pre-existing hypertension	1,058	919	139	0	418	425	97	83	35		
Gestational hypertension	5,501	4,767	734	0	2,296	2,140	381	545	139		
Eclampsia	150†	129	17	0	46	73	11	11	*		
Previous preterm birth	3,516	3,033	483	0	1,402	1,521	249	262	82		
Other previous poor pregnancy outcome	1,320	1,108	212	0	507	550	107	126	30		
Gonorrhea	250†	194	54	0	55	107	32	51	*		
Syphilis	102	84	18	0	27	48	10	17	0		
Chlamydia	2,196	1,773	423	0	443	1,157	169	399	28		
Hepatitis B	120†	106	11	0	34	19	27	*	32		
Hepatitis C	190†	154	39	0	125	42	6	17	*		

TABLE 1B-25 (continued)
**SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
 ARIZONA, 2017**

	TOTAL	Urban ^a	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		
Births with complications of labor and delivery^c											
Total	22,960	20,382	2,578	0	9,672	9,295	1,398	1,502	1,093		
Premature rupture of the membranes	3,765	3,320	445	0	1,599	1,464	202	323	177		
Precipitous labor	4,403	3,897	506	0	1,488	2,177	296	280	162		
Prolonged labor	1,792	1,509	283	0	807	642	87	180	76		
Breech presentation	3,647	3,204	443	0	1,971	1,100	194	189	193		
Chorioamnionitis	1,759	1,641	118	0	601	866	70	124	98		
Meconium staining of the amniotic fluid	5,799	5,241	558	0	2,272	2,572	339	369	247		
Fetal intolerance	5,633	5,054	579	0	2,503	2,065	461	311	293		
Maternal transfusion	494	383	111	0	147	215	21	88	23		
Third or fourth degree perineal laceration	398	347	51	0	203	114	13	23	45		
Ruptured uterus	30†	28	*	0	13	13	*	*	0		
Unplanned Hysterectomy	40†	25	13	0	13	11	*	8	*		
Admission to intensive care unit	136	105	31	0	41	54	10	21	10		
Unplanned surgery following delivery	150†	97	50	0	56	49	*	33	7		
Total	3,425	2,824	601	0	1,594	1,256	213	229	133		
Abnormal conditions of the newborn^c											
Assisted ventilation immediately after delivery	2,326	1,855	471	0	1,154	790	156	142	84		
Assisted ventilation for more than 6 hours	1,449	1,219	230	0	716	502	105	85	41		
Surfactant replacement therapy	396	341	55	0	188	141	37	19	11		
Suspected neonatal sepsis	1,553	1,334	219	0	685	619	83	106	60		
Seizure or serious neurologic dysfunction	20†	20	*	0	12	*	6	*	0		
Significant birth injury	60†	47	11	0	29	15	*	6	*		
Total	438	346	92	0	203	168	19	40	8		
Congenital anomalies of the newborn^c											
Anencephalus	10†	10	*	0	*	6	0	0	0		
Spina bifida / Meningocele	10†	8	*	0	*	6	*	*	0		
Cyanotic congenital heart disease	30†	31	*	0	19	13	0	*	0		
Congenital diaphragmatic hernia	10†	6	*	0	*	*	0	0	0		
Omphalocele / Gastroschisis	40†	29	8	0	10	23	0	*	0		
Limb reduction defect	20†	14	6	0	8	6	*	*	*		
Cleft lip / palate	70†	53	20	0	32	30	0	9	*		
Down syndrome	50†	43	6	0	20	21	*	*	0		
Suspected chromosomal disorder	40†	37	6	0	21	15	*	*	*		
Hypospadias	20†	18	*	0	12	6	*	0	0		
Unknown congenital anomalies	150†	109	36	0	72	46	10	14	*		

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, and Yuma counties; the remaining counties comprise Arizona's rural areas; see Technical Notes for more information; ^b Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; ^c 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 2007 TO 2017 IN SELECTED CHARACTERISTICS OF NEWBORNS AND ARIZONA WOMEN GIVING BIRTH
WHICH DIFFER BY PAYER FOR THE DELIVERY**

Characteristics	AHCCCS ^a			Indian Health Service			Private Health Insurance			Self-pay		
	2007	2017	% Change	2007	2017	% Change	2007	2017	% Change	2007	2017	% Change
Number of births^b	53,625	43,366	-19.1	1,967	908	-53.8	43,172	33,196	-23.1	2,889	4,019	39.1
Per 100 births:												
Teenage mother^c	19.4	9.8	-49.5	21.2	12.6	-40.6	4.1	1.5	-63.4	9.3	3.7	-60.2
Unwed mother^d	66.2	64.8	-2.1	78.3	77.9	-0.5	17.8	19.4	9.0	61.0	24.6	-59.7
Early prenatal care^e	68.5	61.1	-10.8	60.9	53.0	-13.0	91.1	79.5	-12.7	63.4	58.4	-7.9
0-4 prenatal visits	8.4	10.0	19.0	15.2	23.7	55.9	1.6	3.0	87.5	19.5	13.5	-30.8
C-Section^f	24.6	25.5	3.7	22.8	24.0	5.3	29.9	29.3	-2.0	19.7	20.8	5.6
LBW rate	7.4	8.1	9.5	5.8	6.9	19.0	6.8	6.9	1.5	6.6	5.8	-12.1
Newborn intensive care	5.0	7.6	52.0	2.3	8.0	247.8	5.5	6.4	16.4	4.7	6.4	36.2
Preterm birth < 37 weeks	10.4	9.9	-4.8	8.4	8.9	6.0	10.2	8.7	-14.7	9.4	7.4	-21.3

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

**TABLE 1B-27
PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2017**

	TOTAL	Payer for birth				
		AHCCCS ^a	IHS	Private Insurance	Self-pay	Unknown
TOTAL	81,664	43,366	910†	33,200†	4,020†	180†
Mother's age group						
<15	40†	30	*	*	*	0
15-17	1,280	1,072	31	123	50	*
18-19	3,725	3,157	81	379	99	9
20-24	18,447	13,189	243	4,191	778	46
25-29	24,736	13,068	285	10,150	1,191	42
30-34	20,747	7,905	169	11,451	1,176	46
35-39	10,262	3,891	75	5,675	597	24
40-44	2,193	949	21	1,106	114	*
45+	240†	102	*	118	13	*
Unknown	0†	*	0	0	0	0
Mother's race/ethnicity						
White non-Hispanic	35,685	12,742	54	20,616	2,188	85
Hispanic or Latino	33,191	23,143	43	8,577	1,372	56
Black or African American	4,600†	3,280	*	1,128	173	13
American Indian or Alaska Native	4,866	3,308	810	632	99	17
Asian or Pacific Islander	3,327	893	0	2,243	187	*
8th Grade or Less	2,499	2,235	30	107	125	*
Some High School	11,458	9,952	270	893	327	16
High School / GED	21,374	15,275	321	4,915	807	56
Some College	19,132	10,046	195	7,889	975	27
Associate Degree	6,746	2,705	42	3,571	416	12
Bachelor's Degree	13,000	2,074	31	9,960	925	10
Postgraduate Education	6,733	569	11	5,753	393	7
Unknown	722	510	8	108	51	45
Marital status						
Married	44,333	14,507	190	26,609	2,958	69
Unmarried ^b	36,298	28,089	707	6,429	990	83
Unknown	1,033	770	11	158	71	23
Weight gain						
Inadequate	18,351	10,845	207	6,373	879	47
Adequate	25,204	12,751	260	10,793	1,359	41
Excessive	37,745	19,547	431	15,966	1,744	57
Unknown	364	223	10	64	37	30
Smoking during pregnancy						
Non-smoker	77,065	39,956	850	32,379	3,745	135
Light smoker (less than 10 cigarettes per day)	2,244	1,765	24	382	68	*
Heavy smoker (10 or more cigarettes per day)	1,579	1,261	10	239	64	*
Unknown	776	384	24	196	142	30
Length of gestation						
<37 weeks	7,559	4,281	81	2,872	299	26
37-41 weeks	73,740	38,883	823	30,219	3,685	130
42+ weeks	210†	105	*	83	18	0
Unknown	160†	97	*	22	17	19
Weight at birth						
<1,000 grams	470†	295	*	155	17	0
1,000-1,499	490†	285	*	183	18	*
1,500-2,499	5,145	2,943	53	1,936	197	16
2,500-3,999	69,200	36,831	746	28,116	3,372	135
4,000+ grams	6,312	2,997	99	2,801	403	12
Unknown	40†	15	0	*	12	11

TABLE 1B-27 (continued)
PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2017

	TOTAL	Payer for birth				
		AHCCCS ^a	IHS	Private Insurance	Self-pay	Unknown
Prenatal care						
No care	2,344	1,636	57	319	309	23
1st trimester	55,762	26,486	481	26,382	2,347	66
2nd trimester	14,564	9,506	233	4,027	775	23
3rd trimester	4,639	3,255	110	940	328	6
Unknown	4,355	2,483	27	1,528	260	57
Prenatal visits						
No visits	2,344	1,636	57	319	309	23
1-4 visits	3,786	2,716	158	666	234	12
5-8 visits	12,417	8,222	253	3,330	596	16
9-12 visits	36,247	18,838	317	15,400	1,650	42
13+ visits	25,517	11,120	115	13,112	1,135	35
Unknown	1,353	834	8	369	95	47
Newborn intensive care						
Yes	5,763	3,300	73	2,112	256	22
No	75,901	40,066	835	31,084	3,763	153
Method of delivery						
Vaginal	57,545	31,181	672	22,503	3,056	133
C-Section	21,907	11,072	218	9,743	836	38
Forceps	320†	165	*	134	13	*
Vacuum	1,894	948	15	816	114	*
Unknown	2	0	0	0	0	*
Obstetric procedures^c						
Total	37,467	20,454	395	15,045	1,515	58
Induction of labor	23,668	12,709	222	9,802	900	35
Augmentation of labor	18,768	10,500	208	7,250	777	33
Cervical cerclage	160†	61	0	91	*	0
Tocolysis	406	213	8	170	14	*
External cephalic version successful	70†	32	*	31	*	0
External cephalic version failed	90†	37	*	45	*	0
Total	17,845	10,383	356	6,444	631	31
Births with medical risk factors^c						
Pre-existing diabetes	854	507	36	282	29	0
Gestational diabetes	6,251	3,247	134	2,659	198	13
Pre-existing hypertension	1,058	593	20	401	39	*
Gestational hypertension	5,501	3,005	108	2,210	169	9
Eclampsia	150†	84	*	56	*	0
Previous preterm birth	3,516	2,203	61	1,105	142	*
Other previous poor pregnancy outcome	1,320	809	25	413	72	*
Gonorrhea	248	213	7	19	9	0
Syphilis	100†	87	*	*	6	0
Chlamydia	2,196	1,777	76	278	63	*
Hepatitis B	117	71	0	39	7	0
Hepatitis C	193	156	7	22	8	0

**TABLE 1B-27 (continued)
PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2017**

	TOTAL	Payer for birth				
		AHCCCS ^a	IHS	Private Insurance	Self-pay	Unknown
Births with complications of labor and delivery^c						
Total	22,960	11,879	311	9,601	1,117	52
Premature rupture of the membranes	3,765	1,808	62	1,719	169	7
Precipitous labor	4,403	2,775	62	1,263	296	7
Prolonged labor	1,792	824	28	845	91	*
Breech presentation	3,647	1,511	28	1,955	148	*
Chorioamnionitis	1,759	915	28	736	77	*
Meconium staining of the amniotic fluid	5,799	3,065	99	2,363	263	9
Fetal intolerance	5,633	2,905	72	2,399	235	22
Maternal transfusion	494	282	20	165	26	*
Third or fourth degree perineal laceration	398	166	7	200	23	*
Ruptured uterus	30†	17	0	13	*	0
Unplanned Hysterectomy	40†	24	0	12	*	0
Admission to intensive care unit	140†	97	*	33	*	*
Unplanned surgery following delivery	150†	91	*	45	8	0
Total	3,425	1,844	48	1,366	157	10
Abnormal conditions of the newborn^c						
Assisted ventilation immediately after delivery	2,326	1,242	24	945	108	7
Assisted ventilation for more than 6 hours	1,449	761	17	610	57	*
Surfactant replacement therapy	400†	210	*	163	18	0
Suspected neonatal sepsis	1,553	843	25	604	79	*
Seizure or serious neurologic dysfunction	20†	16	*	6	*	0
Significant birth injury	60†	30	*	23	*	0
Total	440†	251	3	154	22	8
Congenital anomalies of the newborn^c						
Anencephalus	10†	8	0	*	0	0
Spina bifida / Meningocele	10†	*	0	7	0	0
Cyanotic congenital heart disease	30†	17	0	16	*	0
Congenital diaphragmatic hernia	10†	*	0	*	0	0
Omphalocele / Gastroschisis	37	27	0	10	0	0
Limb reduction defect	20†	13	0	6	*	0
Cleft lip / palate	70†	49	*	18	*	0
Down syndrome	50†	27	*	15	*	0
Suspected chromosomal disorder	43	25	0	18	0	0
Hypospadias	20†	7	0	11	*	0
Unknown congenital anomalies	145	81	0	49	7	8

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 The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program; ^b Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; ^c 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, 2017**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known
All racial/ ethnic groups	AHCCCS	43,366	30	1,072	3,157	13,189	13,068	7,905	3,891	949	102	*
	IHS	910†	*	31	81	243	285	169	75	21	*	0
	Private insurance	33,200†	*	123	379	4,191	10,150	11,451	5,675	1,106	118	0
	Self-pay	4,020†	*	50	99	778	1,191	1,176	597	114	13	0
	Unknown	180†	0	*	9	46	42	46	24	*	*	0
	TOTAL	81,664	40†	1,280	3,725	18,447	24,736	20,747	10,262	2,193	240†	0†
White non- Hispanic	AHCCCS	12,740†	*	188	719	3,743	4,132	2,536	1,097	261	62	*
	IHS	50†	0	0	*	13	19	11	6	0	*	0
	Private insurance	20,616	0	30	167	2,270	6,153	7,505	3,726	690	75	0
	Self-pay	2,188	0	6	44	366	662	701	352	51	6	0
	Unknown	90†	0	0	*	22	17	26	12	*	*	0
	TOTAL	35,690†	0†	224	940†	6,414	10,983	10,779	5,193	1,004	150†	0†
Hispanic or Latino	AHCCCS	23,143	17	696	1,920	7,396	6,580	3,885	2,114	505	30	0
	IHS	40†	0	0	*	12	16	10	*	*	0	0
	Private insurance	8,580†	*	79	162	1,531	2,870	2,474	1,194	243	21	0
	Self-pay	1,370†	*	38	49	327	406	335	168	45	*	0
	Unknown	60†	0	*	*	17	15	12	*	*	0	0
	TOTAL	33,191	20†	816	2,140†	9,283	9,887	6,716	3,480†	800†	50†	0
Black or African American	AHCCCS	3,280†	*	64	228	934	1,043	659	262	80	*	0
	IHS	0†	0	0	0	0	0	0	*	0	0	0
	Private insurance	1,130†	0	*	22	160	334	350	212	41	6	0
	Self-pay	170†	0	*	*	35	52	45	27	*	*	0
	Unknown	10†	0	*	0	*	*	*	*	0	0	0
	TOTAL	4,600†	10†	70†	250†	1,131	1,432	1,058	510†	130†	10†	0
American Indian or Alaska Native	AHCCCS	3,310†	6	119	255	952	1,032	597	282	63	*	0
	IHS	810†	*	31	75	218	250	148	66	20	0	0
	Private insurance	632	0	10	16	132	191	161	98	24	0	0
	Self-pay	100†	0	*	*	27	26	27	11	*	0	0
	Unknown	20†	0	0	0	*	6	*	*	0	0	0
	TOTAL	4,870†	10†	160†	350†	1,334	1,505	937	459	110†	0†	0
Asian or Pacific Islander	AHCCCS	890†	*	*	35	164	281	228	136	40	*	0
	IHS	0	0	0	0	0	0	0	0	0	0	0
	Private insurance	2,240†	0	*	12	98	602	961	445	108	16	0
	Self-pay	190†	0	0	*	23	45	68	39	10	*	0
	Unknown	0†	0	0	0	0	*	0	*	0	0	0
	TOTAL	3,330†	0†	10†	50†	285	929	1,257	623	158	20†	0

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

**TABLE 1B-29
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND TRIMESTER
OF PREGNANCY PRENATAL CARE BEGAN, ARIZONA, 2017**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known
All racial/ethnic groups	No care	2,340†	*	79	148	676	671	440	259	49	17	*
	1st trimester	55,762	13	576	2,093	11,522	17,216	15,238	7,416	1,539	149	0
	2nd trimester	14,564	8	397	948	3,872	4,192	3,106	1,608	391	41	*
	3rd trimester	4,639	7	161	342	1,314	1,302	941	452	104	15	*
	Unknown	4,360†	*	67	194	1,063	1,355	1,022	527	110	13	0
	TOTAL	81,664	40†	1,280	3,725	18,447	24,736	20,747	10,262	2,193	235	0†
White non-Hispanic	No care	566	0	7	17	117	164	146	84	14	16	*
	1st trimester	26,610	0	127	588	4,369	8,266	8,400	4,019	756	85	0
	2nd trimester	5,102	0	55	210	1,137	1,543	1,335	640	155	26	*
	3rd trimester	1,512	0	22	71	397	417	373	186	35	10	*
	Unknown	1,900†	*	13	53	394	593	525	264	44	8	0
	TOTAL	35,690†	1	224	939	6,414	10,983	10,779	5,193	1,004	145	0†
Hispanic or Latino	No care	1,360†	*	65	106	440	389	208	128	23	*	0
	1st trimester	21,037	7	346	1,166	5,545	6,496	4,594	2,332	515	36	0
	2nd trimester	6,707	6	250	551	2,074	1,809	1,169	672	165	11	0
	3rd trimester	2,260†	*	109	207	698	641	382	171	49	*	0
	Unknown	1,820†	0	46	107	526	552	363	179	43	*	0
	TOTAL	33,191	20†	816	2,137	9,283	9,887	6,716	3,482	795	50†	0
Black or African American	No care	150†	0	*	13	32	53	35	14	*	0	0
	1st trimester	2,820†	*	31	144	662	883	691	323	75	12	0
	2nd trimester	1,020†	*	28	65	263	308	218	105	29	*	0
	3rd trimester	297	0	6	17	98	76	62	29	9	0	0
	Unknown	300†	*	*	14	76	112	52	34	11	0	0
	TOTAL	4,600†	10†	70†	253	1,131	1,432	1,058	505	130†	10†	0
American Indian or Alaska Native	No care	200†	*	*	9	69	48	39	22	9	0	0
	1st trimester	2,890†	*	68	174	783	907	605	276	72	*	0
	2nd trimester	1,180†	*	62	109	330	370	187	100	19	*	0
	3rd trimester	410†	*	24	40	100	118	78	44	*	0	0
	Unknown	190†	*	6	16	52	62	28	17	6	0	0
	TOTAL	4,870†	10†	160†	348	1,334	1,505	937	459	110†	0†	0
Asian or Pacific Islander	No care	60†	0	0	*	18	17	12	11	*	0	0
	1st trimester	2,400†	0	*	21	163	664	948	466	121	15	0
	2nd trimester	560†	0	*	13	68	162	197	91	23	*	0
	3rd trimester	160†	*	0	7	21	50	46	22	7	*	0
	Unknown	150†	0	0	*	15	36	54	33	6	*	0
	TOTAL	3,330†	0†	10†	50†	285	929	1,257	623	160†	20†	0

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

**TABLE 1B-30
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND NUMBER OF PRENATAL VISITS,
ARIZONA, 2017**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known
All racial/ ethnic groups	No visits	2,340†	*	79	148	676	671	440	259	49	17	*
	1-4 visits	3,790†	*	127	272	1,042	1,117	765	339	102	17	*
	5-8 visits	12,417	10	318	810	3,357	3,648	2,635	1,302	302	34	*
	9-12 visits	36,247	15	527	1,571	8,101	11,162	9,452	4,451	881	87	0
	13+ visits	25,520†	*	204	846	4,922	7,727	7,162	3,755	827	73	0
	Unknown	1,350†	*	25	78	349	411	293	156	32	7	0
	TOTAL	81,664	40†	1,280	3,725	18,447	24,736	20,747	10,262	2,193	235	0†
White non- Hispanic	No visits	566	0	7	17	117	164	146	84	14	16	*
	1-4 visits	1,100†	*	18	52	270	318	264	126	38	11	*
	5-8 visits	4,226	0	43	164	963	1,224	1,133	565	114	19	*
	9-12 visits	15,956	0	92	407	2,821	5,024	4,930	2,232	402	48	0
	13+ visits	13,300	0	58	275	2,116	4,100	4,170	2,112	423	46	0
	Unknown	540†	0	6	24	127	153	136	74	13	*	0
	TOTAL	35,690†	0†	224	939	6,414	10,983	10,779	5,193	1,004	145	0†
Hispanic or Latino	No visits	1,360†	*	65	106	440	389	208	128	23	*	0
	1-4 visits	1,770†	*	81	151	528	516	314	137	41	*	0
	5-8 visits	5,724	6	197	471	1,768	1,634	998	516	125	9	0
	9-12 visits	14,879	10	345	917	4,124	4,490	3,087	1,549	334	23	0
	13+ visits	8,884	0	114	456	2,253	2,674	2,006	1,108	257	16	0
	Unknown	570†	0	14	36	170	184	103	44	15	*	0
	TOTAL	33,191	20†	816	2,137	9,283	9,887	6,716	3,482	795	50†	0
Black or African American	No visits	150†	0	*	13	32	53	35	14	*	0	0
	1-4 visits	258	0	6	15	76	83	55	16	7	0	0
	5-8 visits	870†	0	19	62	237	273	172	80	23	*	0
	9-12 visits	1,970†	*	28	103	513	600	474	204	43	*	0
	13+ visits	1,210†	0	13	50	241	377	300	172	50	*	0
	Unknown	130†	*	*	10	32	46	22	19	*	0	0
	TOTAL	4,600†	10†	70†	253	1,131	1,432	1,058	505	130†	10†	0
American Indian or Alaska Native	No visits	200†	*	*	9	69	48	39	22	9	0	0
	1-4 visits	560†	*	22	48	152	177	103	48	10	0	0
	5-8 visits	1,180†	*	56	106	328	377	200	80	24	*	0
	9-12 visits	1,890†	*	59	124	517	606	367	182	35	*	0
	13+ visits	970†	*	19	55	248	277	218	121	30	0	0
	Unknown	70†	0	*	6	20	20	10	6	*	0	0
	TOTAL	4,870†	10†	160†	348	1,334	1,505	937	459	110	0†	0
Asian or Pacific Islander	No visits	60†	0	0	*	18	17	12	11	*	0	0
	1-4 visits	90†	0	0	6	16	23	29	12	6	*	0
	5-8 visits	420†	*	*	7	61	140	132	61	16	*	0
	9-12 visits	1,550†	0	*	20	126	442	594	284	67	10	0
	13+ visits	1,156	0	0	10	64	299	468	242	67	6	0
	Unknown	50†	0	0	*	0	8	22	13	*	*	0
	TOTAL	3,330†	0†	10†	50†	285	929	1,257	623	160†	20†	0

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

**TABLE 1B-31
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2017**

	TOTAL	Prenatal care			Visits				
		No care	1st trimester	2nd trimester	3rd trimester	Un-known	Less than 5	5 or more	Un-known
TOTAL	81,664	2,340†	55,762	14,564	4,640†	4,360†	6,130	74,181	1,350†
Mother's age group									
<15	40†	*	13	8	7	*	8	26	*
15-17	1,280	79	576	397	161	67	206	1,049	25
18-19	3,725	148	2,093	948	342	194	420	3,227	78
20-24	18,447	676	11,522	3,872	1,314	1,063	1,718	16,380	349
25-29	24,736	671	17,216	4,192	1,302	1,355	1,788	22,537	411
30-34	20,747	440	15,238	3,106	941	1,022	1,205	19,249	293
35-39	10,262	259	7,416	1,608	452	527	598	9,508	156
40-44	2,193	49	1,539	391	104	110	151	2,010	32
45+	235	17	149	41	15	13	34	194	7
Unknown	0†	*	0	*	*	0	*	*	0
Payer for birth									
AHCCCS	43,366	1,636	26,486	9,506	3,255	2,483	4,352	38,180	834
IHS	908	57	481	233	110	27	215	685	8
Private insurance	33,196	319	26,382	4,027	940	1,528	985	31,842	369
Self-pay	4,019	309	2,347	775	328	260	543	3,381	95
Unknown	175	23	66	23	6	57	35	93	47
Mother's education									
8th Grade or Less	2,499	185	1,246	669	261	138	372	2,091	36
Some High School	11,458	625	6,244	2,865	1,055	669	1,616	9,605	237
High School / GED	21,374	748	13,736	4,372	1,309	1,209	1,904	19,075	395
Some College	19,132	387	13,578	3,180	918	1,069	1,112	17,683	337
Associate Degree	6,746	114	4,988	1,010	314	320	313	6,350	83
Bachelor's Degree	13,000	149	10,200	1,568	485	598	443	12,416	141
Postgraduate Education	6,733	41	5,476	750	207	259	183	6,490	60
Unknown	722	95	294	150	90	93	187	471	64
Marital status									
Married	44,333	718	32,955	6,496	1,926	2,238	2,028	41,727	578
Unmarried*	36,298	1,523	22,267	7,872	2,608	2,028	3,881	31,693	724
Unknown	1,033	103	540	196	105	89	221	761	51
Inadequate	18,351	807	11,578	3,498	1,372	1,096	2,052	15,943	356
Adequate	25,204	636	17,366	4,546	1,338	1,318	1,721	23,073	410
Excessive	37,745	822	26,696	6,473	1,895	1,859	2,238	34,987	520
Unknown	364	79	122	47	34	82	119	178	67
Smoking during pregnancy									
Non-smoker	77,065	2,039	53,170	13,565	4,249	4,042	5,381	70,474	1,210
Light smoker (less than 10 cigarettes per day)	2,244	158	1,273	512	185	116	367	1,832	45
Heavy smoker (10 or more cigarettes per day)	2,244	158	1,273	512	185	116	256	1,281	42
Unknown	1,579	97	896	332	139	115	126	594	56

**TABLE 1B-31
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2017**

	TOTAL	Prenatal care				Visits			
		No care	1st trimester	2nd trimester	3rd trimester	Un-known	Less than 5	5 or more	Un-known
Length of gestation									
<37 weeks	7,559	496	4,986	1,205	292	580	1,239	6,130	190
37-41 weeks	73,740	1,806	50,678	13,285	4,315	3,656	4,826	67,856	1,058
42+ weeks	207	22	98	46	30	11	40	162	*
Unknown	160†	20	0	28	*	108	25	33	100
Weight at birth									
<1,000 grams	472	54	302	67	0	49	185	272	15
1,000-1,499	492	44	314	82	8	44	113	363	16
1,500-2,499	5,145	245	3,410	919	238	333	619	4,395	131
2,500-3,999	69,200	1,864	47,276	12,415	4,043	3,602	4,876	63,221	1,103
4,000+ grams	6,312	134	4,449	1,077	350	302	332	5,915	65
Unknown	40†	*	11	*	0	25	*	15	23
Newborn intensive care									
Yes	5,763	357	3,727	1,051	335	293	898	4,741	124
No	75,901	1,987	52,035	13,513	4,304	4,062	5,232	69,440	1,229
Method of delivery									
Vaginal	57,545	1,779	38,810	10,414	3,301	3,241	4,384	52,114	1,047
C-Section	21,907	514	15,449	3,732	1,182	1,030	1,588	20,031	288
Forceps	316	8	221	59	21	7	25	289	*
Vacuum	1,894	43	1,282	359	135	75	133	1,747	14
Unknown	2	0	0	0	0	*	0	0	*
Obstetric procedures^b									
Total	37,467	981	25,560	7,077	2,272	1,577	2,617	34,439	411
Induction of labor	23,668	515	16,527	4,307	1,413	906	1,390	22,089	189
Augmentation of labor	18,768	584	12,454	3,678	1,186	866	1,490	17,027	251
Cervical cerclage	160†	*	119	24	*	6	7	147	*
Tocolysis	406	36	265	77	19	9	97	302	7
External cephalic version successful	70†	0	51	16	*	0	*	66	0
External cephalic version failed	90†	0	62	20	6	0	*	84	0
Births with medical risk factors^b									
Total	17,845	535	12,071	3,418	1,089	732	1,577	16,067	201
Pre-existing diabetes	854	20	624	141	42	27	67	776	11
Gestational diabetes	6,251	96	4,460	1,112	310	273	350	5,842	59
Pre-existing hypertension	1,058	32	771	179	44	32	96	955	7
Gestational hypertension	5,501	169	3,751	1,020	317	244	468	4,958	75
Eclampsia	146	9	101	22	8	6	16	127	*
Previous preterm birth	3,516	160	2,350	651	210	145	426	3,045	45
Other previous poor pregnancy outcome	1,320	50	880	270	68	52	126	1,179	15
Gonorrhea	248	15	125	73	27	8	50	196	*
Syphilis	102	10	49	24	14	*	24	75	*
Chlamydia	2,196	87	1,221	589	246	53	318	1,860	18
Hepatitis B	117	8	69	24	9	7	16	99	*
Hepatitis C	193	23	99	40	19	12	53	133	7

**TABLE 1B-31
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2017**

	TOTAL	Prenatal care				Visits			
		No care	1st trimester	2nd trimester	3rd trimester	Un-known	Less than 5	5 or more	Un-known
Births with complications of labor and delivery^b									
Total	22,960	828	15,301	4,300	1,367	1,164	2,063	20,522	375
Premature rupture of the membranes	3,765	187	2,624	595	193	166	435	3,274	56
Precipitous labor	4,403	261	2,638	960	346	198	561	3,768	74
Prolonged labor	1,792	38	1,267	318	96	73	118	1,657	17
Breech presentation	3,647	101	2,587	628	173	158	325	3,267	55
Chorioamnionitis	1,759	56	1,177	346	119	61	147	1,593	19
Meconium staining of the amniotic fluid	5,799	198	3,797	1,084	377	343	500	5,227	72
Fetal intolerance	5,633	133	3,775	1,076	279	370	344	5,145	144
Maternal transfusion	494	28	313	111	28	14	73	415	6
Third or fourth degree perineal laceration	398	12	264	69	32	21	37	357	*
Ruptured uterus	30†	*	18	7	*	*	7	25	0
Unplanned Hysterectomy	40†	0	30	*	*	0	*	34	0
Admission to intensive care unit	136	13	84	25	9	*	28	105	*
Unplanned surgery following delivery	150†	*	101	29	10	*	10	136	*
Abnormal conditions of the newborn^b									
Total	3,425	176	2,285	618	181	165	500	2,858	67
Assisted ventilation immediately after delivery	2,326	135	1,560	405	118	108	371	1,907	48
Assisted ventilation for more than 6 hours	1,449	85	973	249	60	82	250	1,164	35
Surfactant replacement therapy	396	32	265	73	7	19	82	305	9
Suspected neonatal sepsis	1,553	82	1,029	287	82	73	217	1,306	30
Seizure or serious neurologic dysfunction	20†	*	11	*	*	*	*	16	*
Significant birth injury	60†	0	44	10	*	*	*	54	*
Congenital anomalies of the newborn^b									
Total	438	28	248	90	35	37	70	354	14
Anencephalus	10†	*	6	*	0	0	*	8	0
Spina bifida / Meningocele	10†	0	6	*	*	*	*	10	0
Cyanotic congenital heart disease	30†	*	20	*	6	*	*	27	*
Congenital diaphragmatic hernia	10†	0	*	*	*	0	*	6	0
Omphalocele / Gastroschisis	40†	*	16	10	*	*	12	25	0
Limb reduction defect	20†	0	10	7	*	0	*	19	0
Cleft lip / palate	70†	*	48	13	*	*	8	64	*
Down syndrome	50†	*	32	9	*	*	7	40	*
Suspected chromosomal disorder	40†	*	24	14	*	*	*	37	*
Hypospadias	20†	*	15	0	*	*	*	19	0
Unknown congenital anomalies	145	14	71	29	7	24	28	108	9

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 Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; ^b Total birth where an obstetric procedure; medical risk factor; complication of labor and delivery; abnormal condition of the newborn; or a congenital anomaly of the newborn was identified.

**TABLE 1B-32
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2017**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
TOTAL	81,664	6,110†	75,512	40†	7,560†	73,740	210†	160†
Mother's age group								
<15	40†	*	35	0	*	31	0	*
15-17	1,280†	102	1,178	0	128	1,145	*	*
18-19	3,725	332	3,392	*	354	3,352	7	12
20-24	18,447	1,274	17,164	9	1,483	16,892	33	39
25-29	24,736	1,774	22,955	7	2,185	22,442	65	44
30-34	20,747	1,477	19,255	15	1,911	18,747	56	33
35-39	10,262	848	9,404	10	1,127	9,078	34	23
40-44	2,193	254	1,938	*	317	1,866	7	*
45+	240†	47	188	0	49	185	*	0
Unknown	0†	0	*	0	*	*	0	0
Payer for birth								
AHCCCS	43,366	3,523	39,828	15	4,281	38,883	105	97
IHS	910†	63	845	0	81	823	*	*
Private insurance	33,196	2,274	30,917	*	2,872	30,219	83	22
Self-pay	4,019	232	3,775	12	299	3,685	18	17
Unknown	175	17	147	11	26	130	0	19
Mother's education								
8th Grade or Less	2,499	186	2,313	0	248	2,230	15	6
Some High School	11,458	936	10,521	*	1,160	10,237	27	34
High School / GED	21,374	1,686	19,680	8	1,988	19,305	42	39
Some College	19,132	1,432	17,691	9	1,833	17,222	44	33
Associate Degree	6,746	474	6,271	*	626	6,095	13	12
Bachelor's Degree	13,000	840	12,155	*	1,043	11,908	43	6
Postgraduate Education	6,733	471	6,258	*	555	6,156	19	*
Unknown	720†	84	623	15	106	587	*	25
Marital status								
Married	44,333	2,947	41,373	13	3,730	40,435	120	48
Unmarried ^a	36,298	3,028	33,250	20	3,671	32,452	83	92
Unknown	1,030†	134	889	10	158	853	*	18
Weight gain								
Inadequate	18,351	2,081	16,263	7	2,290	15,973	39	49
Adequate	25,204	1,762	23,436	6	2,078	23,019	64	43
Excessive	37,745	2,212	35,519	14	3,117	34,486	103	39
Unknown	360†	54	294	16	74	262	*	27
Smoking during pregnancy								
Non-smoker	77,065	5,480	71,556	29	6,928	69,810	193	134
Light smoker (less than 10 cigarettes per day)	2,244	280	1,962	*	282	1,951	8	*
Heavy smoker (10 or more cigarettes per day)	1,580†	239	1,336	*	216	1,350	*	9
Unknown	780†	110	658	8	133	629	*	12

TABLE 1B-32 (continued)
 SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2017

	TOTAL	Weight at birth			Length of gestation			Unknown
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	
Prenatal care								
No care	2,344	343	1,998	*	496	1,806	22	20
1st trimester	55,762	4,026	51,725	11	4,986	50,678	98	0
2nd trimester	14,564	1,068	13,492	*	1,205	13,285	46	28
3rd trimester	4,639	246	4,393	0	292	4,315	30	*
Unknown	4,355	426	3,904	25	580	3,656	11	108
Prenatal visits								
No visits	2,344	343	1,998	*	496	1,806	22	20
1-4 visits	3,786	574	3,210	*	743	3,020	18	*
5-8 visits	12,417	1,603	10,811	*	1,942	10,451	16	8
9-12 visits	36,247	2,124	34,118	*	2,762	33,419	50	16
13+ visits	25,517	1,303	24,207	7	1,426	23,986	96	9
Unknown	1,350†	162	1,168	23	190	1,058	*	100
Newborn intensive care								
Yes	5,763	2,512	3,247	*	3,042	2,697	17	7
No	75,901	3,597	72,265	39	4,517	71,043	190	151
Method of delivery								
Vaginal	57,545	3,133	54,373	39	3,959	53,302	143	141
C-Section	21,907	2,871	19,034	*	3,464	18,370	59	14
Forceps	316	18	298	0	25	291	0	0
Vacuum	1,890†	87	1,807	0	111	1,777	*	*
Unknown	2	0	0	*	0	0	0	*
Obstetric procedures^b								
Total	37,467	2,175	35,291	1	2,515	34,795	128	29
Induction of labor	23,668	1,462	22,206	0	1,425	22,123	109	11
Augmentation of labor	18,768	811	17,956	*	1,183	17,515	51	19
Cervical cerclage	156	62	94	0	66	90	0	0
Tocolysis	406	210	196	0	237	169	0	0
External cephalic version successful	70†	8	60	0	*	63	0	0
External cephalic version failed	90†	*	83	0	8	80	0	0
Births with medical risk factors^b								
Total	17,845	2,351	15,492	2	3,134	14,675	22	14
Pre-existing diabetes	850†	101	753	0	204	649	*	0
Gestational diabetes	6,250†	579	5,672	0	871	5,371	*	*
Pre-existing hypertension	1,060†	189	868	*	231	826	*	0
Gestational hypertension	5,500†	997	4,504	0	1,277	4,213	*	7
Eclampsia	150†	54	92	0	67	78	*	0
Previous preterm birth	3,516	633	2,881	*	957	2,558	0	*
Other previous poor pregnancy outcome	1,320†	222	1,098	0	231	1,085	*	*
Gonorrhea	248	29	219	0	35	213	0	0
Syphilis	102	17	85	0	19	83	0	0
Chlamydia	2,196	175	2,020	*	202	1,986	7	*
Hepatitis B	117	12	105	0	12	105	0	0
Hepatitis C	193	34	159	0	37	156	0	0

TABLE 1B-32 (continued)
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2017

	TOTAL	Weight at birth			Length of gestation		
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks
Births with complications of labor and delivery^b							
Total	22,960	2,722	20,233	5	3,335	19,512	80
Premature rupture of the membranes	3,765	814	2,949	*	1,185	2,568	7
Precipitous labor	4,403	383	4,018	*	473	3,904	15
Prolonged labor	1,792	121	1,671	0	161	1,620	10
Breech presentation	3,650†	981	2,665	*	1,122	2,514	*
Chorioamnionitis	1,759	90	1,669	0	124	1,628	6
Meconium staining of the amniotic fluid	5,799	244	5,555	0	276	5,476	40
Fetal intolerance	5,633	658	4,975	0	688	4,916	22
Maternal transfusion	490†	114	380	0	137	354	*
Third or fourth degree perineal laceration	400†	8	390	0	13	383	*
Ruptured uterus	32	7	25	0	9	23	0
Unplanned Hysterectomy	40†	*	33	0	7	29	*
Admission to intensive care unit	140†	45	91	0	61	73	*
Unplanned surgery following delivery	150†	17	130	0	20	126	*
Abnormal conditions of the newborn^b							
Total	3,425	1,357	2,065	3	1,625	1,787	10
Assisted ventilation immediately after delivery	2,326	1,049	1,276	*	1,229	1,086	8
Assisted ventilation for more than 6 hours	1,450†	846	601	*	984	462	*
Surfactant replacement therapy	396	328	68	0	346	49	0
Suspected neonatal sepsis	1,550†	625	928	0	755	795	*
Seizure or serious neurologic dysfunction	20†	*	21	*	7	17	0
Significant birth injury	60†	*	55	0	6	52	0
Congenital anomalies of the newborn^b							
Total	440†	139	290	9	142	285	4
Anencephalus	10†	6	*	0	*	*	*
Spina bifida / Meningocele	10†	*	8	0	*	9	0
Cyanotic congenital heart disease	34	8	26	0	6	28	0
Congenital diaphragmatic hernia	10†	*	*	*	*	6	0
Omphalocele / Gastroschisis	40†	14	23	0	20	16	*
Limb reduction defect	20†	7	13	0	*	15	0
Cleft lip / palate	70†	11	62	0	12	60	*
Down syndrome	49	8	40	*	11	38	0
Suspected chromosomal disorder	40†	18	25	0	15	27	*
Hypospadias	20†	*	19	0	*	19	0
Unknown congenital anomalies	145	63	75	7	68	70	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; ^a Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; ^b Total birth where an obstetric procedure; medical risk factor; complication of labor and delivery; abnormal condition of the newborn; or a congenital anomaly of the newborn was identified.

TABLE 1B-33
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2017

	TOTAL	Mother's age group										Un- known
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+		
TOTAL	81,664	36	1,280	3,725	18,447	24,736	20,747	10,262	2,193	235	3	
Mother's race/ethnicity												
White non-Hispanic	35,690†	*	224	939	6,414	10,983	10,779	5,193	1,004	145	*	
Hispanic or Latino	33,191	21	816	2,137	9,283	9,887	6,716	3,482	795	54	0	
Black or African American	4,600†	*	71	253	1,131	1,432	1,058	505	126	14	0	
American Indian or Alaska Native	4,870†	8	163	348	1,334	1,505	937	459	110	*	0	
Asian or Pacific Islander	3,330†	*	6	48	285	929	1,257	623	158	20	0	
Payer for birth												
AHCCCS	43,366	30	1,072	3,157	13,189	13,068	7,905	3,891	949	102	*	
IHS	910†	*	31	81	243	285	169	75	21	*	0	
Private insurance	33,200†	*	123	379	4,191	10,150	11,451	5,675	1,106	118	0	
Self-pay	4,020†	*	50	99	778	1,191	1,176	597	114	13	0	
Unknown	180†	0	*	9	46	42	46	24	*	*	0	
Mother's education												
8th Grade or Less	2,499	13	103	112	398	553	606	528	169	17	0	
Some High School	11,458	23	1,042	1,555	3,577	2,635	1,564	837	217	8	0	
High School / GED	21,370†	0	118	1,584	7,459	6,559	3,713	1,600	316	25	0	
Some College	19,130†	0	7	431	5,106	6,847	4,450	1,890	382	19	0	
Associate Degree	6,750†	0	0	23	959	2,466	2,099	973	217	9	0	
Bachelor's Degree	13,000†	0	0	0	746	4,224	5,078	2,440	452	60	0	
Postgraduate Education	6,730†	0	0	0	75	1,281	3,067	1,881	394	35	0	
Unknown	720†	0	10	20	127	171	170	113	46	62	*	
Marital status												
Married	44,330†	0	43	479	6,051	14,068	14,699	7,368	1,490	135	0	
Unmarried ^a	36,298	36	1,235	3,234	12,243	10,366	5,788	2,719	640	37	0	
Unknown	1,030†	0	*	12	153	302	260	175	63	63	*	
Weight gain												
Inadequate	18,351	13	358	933	4,313	5,559	4,421	2,201	498	54	*	
Adequate	25,204	11	369	1,028	5,434	7,699	6,601	3,262	735	64	*	
Excessive	37,745	12	546	1,744	8,609	11,376	9,638	4,754	949	116	*	
Unknown	360†	0	7	20	91	102	87	45	11	*	0	
Smoking during pregnancy												
Non-smoker	77,065	35	1,238	3,509	17,254	23,214	19,705	9,830	2,080	197	*	
Light smoker (less than 10 cigarettes per day)	2,240†	0	21	113	634	731	481	188	59	17	0	
Heavy smoker (10 or more cigarettes per day)	1,580†	0	7	59	374	557	365	172	34	11	0	
Unknown	780†	*	14	44	185	234	196	72	20	10	0	
Length of gestation												
<37 weeks	7,560†	*	128	354	1,483	2,185	1,911	1,127	317	49	*	
37-41 weeks	73,740	31	1,145	3,352	16,892	22,442	18,747	9,078	1,866	185	*	
42+ weeks	210†	0	*	7	33	65	56	34	7	*	0	
Unknown	160†	*	*	12	39	44	33	23	*	0	0	
Weight at birth												
<1,000 grams	470†	0	6	36	87	135	117	73	17	*	0	
1,000-1,499	490†	0	11	26	96	130	110	92	21	6	0	
1,500-2,499	5,150†	*	85	270	1,091	1,509	1,250	683	216	40	0	
2,500-3,999	69,200	33	1,130	3,206	15,993	21,084	17,356	8,456	1,763	176	*	
4,000+ grams	6,310†	*	48	186	1,171	1,871	1,899	948	175	12	0	
Unknown	40†	0	0	*	9	7	15	10	*	0	0	

**TABLE 1B-33 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2017**

	TOTAL	Mother's age group										Un- known		
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+				
Prenatal care														
No care	2,340†	*	79	148	676	671	440	259	49	17	*			
1st trimester	55,762	13	576	2,093	11,522	17,216	15,238	7,416	1,539	149	0			
2nd trimester	14,564	8	397	948	3,872	4,192	3,106	1,608	391	41	*			
3rd trimester	4,639	7	161	342	1,314	1,302	941	452	104	15	*			
Unknown	4,360†	*	67	194	1,063	1,355	1,022	527	110	13	0			
Prenatal visits														
No visits	2,340†	*	79	148	676	671	440	259	49	17	*			
1-4 visits	3,790†	*	127	272	1,042	1,117	765	339	102	17	*			
5-8 visits	12,417	10	318	810	3,357	3,648	2,635	1,302	302	34	*			
9-12 visits	36,247	15	527	1,571	8,101	11,162	9,452	4,451	881	87	0			
13+ visits	25,520†	*	204	846	4,922	7,727	7,162	3,755	827	73	0			
Unknown	1,350†	*	25	78	349	411	293	156	32	7	0			
Newborn intensive care														
Yes	5,760†	*	91	267	1,179	1,652	1,466	849	212	45	0			
No	75,901	34	1,189	3,458	17,268	23,084	19,281	9,413	1,981	190	*			
Method of delivery														
Vaginal	57,545	27	1,066	2,992	14,075	17,679	13,874	6,488	1,232	110	*			
C-Section	21,907	8	157	601	3,833	6,385	6,346	3,542	914	120	*			
Forceps	320†	0	8	21	71	112	64	33	*	*	0			
Vacuum	1,890†	*	49	111	468	559	462	199	42	*	0			
Unknown	0†	0	0	0	0	*	*	0	0	0	0			
Obstetric procedures^b														
Total	37,467	22	712	2,012	9,344	11,426	8,642	4,294	933	81	1			
Induction of labor	23,668	10	374	1,156	5,587	7,152	5,604	3,024	701	59	*			
Augmentation of labor	18,768	13	414	1,133	4,958	5,779	4,198	1,871	372	30	0			
Cervical cerclage	160†	0	*	*	23	45	50	22	9	*	0			
Tocolysis	410†	0	10	19	88	139	89	47	12	*	0			
External cephalic version successful	70†	0	0	*	12	24	17	12	*	*	0			
External cephalic version failed	90†	0	*	*	13	20	33	17	*	0	0			
Births with medical risk factors^b														
Total	17,850†	5	253	762	3,477	4,961	4,692	2,883	734	78	0			
Pre-existing diabetes	850†	0	*	20	125	210	259	182	49	*	0			
Gestational diabetes	6,250†	*	23	103	780	1,677	1,934	1,325	378	30	0			
Pre-existing hypertension	1,060†	0	*	17	104	250	322	248	105	8	0			
Gestational hypertension	5,500†	*	98	273	1,183	1,532	1,363	818	200	31	0			
Eclampsia	150†	0	*	9	19	42	38	28	7	*	0			
Previous preterm birth	3,520†	0	*	48	584	1,068	1,050	619	133	10	0			
Other previous poor pregnancy outcome	1,320†	0	*	26	185	361	394	269	74	7	0			
Gonorrhea	250†	*	11	39	90	61	33	9	*	*	0			
Syphilis	100†	0	*	7	22	31	26	9	*	*	0			
Chlamydia	2,200†	*	129	336	920	544	186	64	11	*	0			
Hepatitis B	120†	0	*	*	18	30	33	24	7	*	0			
Hepatitis C	190†	0	*	*	30	68	53	27	12	*	0			

**TABLE 1B-33 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2017**

	TOTAL	Mother's age group										Un- known	
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+			
Births with complications of labor and delivery^b													
Total	22,960	12	390	1,101	5,233	6,709	5,760	2,984	695	76	0		
Premature rupture of the membranes	3,770†	*	67	222	872	1,105	936	454	94	13	0		
Precipitous labor	4,400†	*	90	193	932	1,254	1,094	686	135	16	0		
Prolonged labor	1,790†	0	38	124	460	525	415	187	38	*	0		
Breech presentation	3,650†	0	35	73	528	966	1,167	656	198	24	0		
Chorioamnionitis	1,760†	*	45	127	543	550	342	124	26	0	0		
Meconium staining of the amniotic fluid	5,800†	*	94	280	1,453	1,723	1,421	665	151	11	0		
Fetal intolerance	5,630†	*	89	310	1,403	1,757	1,280	627	144	19	0		
Maternal transfusion	490†	0	15	27	113	121	118	83	15	*	0		
Third or fourth degree perineal laceration	400†	*	10	18	93	141	98	34	*	0	0		
Ruptured uterus	30†	0	0	*	7	7	11	*	*	0	0		
Unplanned Hysterectomy	40†	0	0	0	*	*	11	13	*	0	0		
Admission to intensive care unit	140†	0	*	6	26	26	33	33	11	0	0		
Unplanned surgery following delivery	150†	0	*	*	30	36	41	29	*	0	0		
Abnormal conditions of the newborn^b													
Total	3,430†	2	66	174	776	1,002	845	428	115	17	0		
Assisted ventilation immediately after delivery	2,330†	0	35	103	501	687	581	316	92	11	0		
Assisted ventilation for more than 6 hours	1,450†	0	27	63	305	430	363	206	48	7	0		
Surfactant replacement therapy	400†	0	6	17	77	111	106	61	14	*	0		
Suspected neonatal sepsis	1,550†	*	40	94	366	474	352	174	38	13	0		
Seizure or serious neurologic dysfunction	20†	0	0	0	10	6	*	*	0	*	0		
Significant birth injury	60†	0	*	0	13	24	10	8	*	*	0		
Congenital anomalies of the newborn^b													
Total	440†	0	3	28	105	131	88	52	29	2	0		
Anencephalus	10†	0	0	*	*	*	*	*	0	0	0		
Spina bifida / Meningocele	10†	0	0	0	*	*	*	*	0	0	0		
Cyanotic congenital heart disease	30†	0	0	0	8	10	11	*	*	0	0		
Congenital diaphragmatic hernia	10†	0	0	*	*	*	*	0	0	0	0		
Omphalocele / Gastroschisis	40†	0	0	6	14	12	*	*	0	0	0		
Limb reduction defect	20†	0	0	*	*	7	*	0	*	0	0		
Cleft lip / palate	70†	0	*	*	19	22	15	10	*	0	0		
Down syndrome	50†	0	0	0	6	12	7	10	13	*	0		
Suspected chromosomal disorder	40†	0	0	*	6	11	10	*	10	0	0		
Hypospadias	20†	0	0	*	*	8	*	*	0	0	0		
Unknown congenital anomalies	150†	0	*	10	37	48	24	20	*	*	0		

Notes: * Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; ^a Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; ^b 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, 2017**

	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
Total	438	248	190	203	102	101	168	108	60	19	12	7	40	22	18	8	4	4
Anencephalus	10†	8	*	10†	*	*	10†	*	*	0	0	0	0	0	0	0	0	0
Spina bifida / Meningocele	10†	*	7	0†	0	*	10†	*	*	0†	*	0	0†	0	*	0	0	0
Cyanotic congenital heart disease	34	19	15	19	10	9	13	7	6	0	0	0	0†	*	0	0	0	0
Congenital diaphragmatic hernia	10†	*	*	0†	*	*	0†	*	*	0	0	0	0	0	0	0	0	0
Omphalocele / Gastroschisis	37	20	17	10†	*	6	23	15	8	0	0	0	0†	*	*	0	0	0
Limb reduction defect	20†	15	*	10†	6	*	10†	*	*	0†	*	0	0†	*	*	0†	*	0
Cleft lip / palate	73	38	35	32	14	18	30	20	10	0	0	0	10†	*	*	0†	0	*
Down syndrome	49	25	24	20	10	10	21	9	12	0†	*	*	10†	*	*	0	0	0
Suspected chromosomal disorder	43	15	28	21	7	14	15	6	9	0†	*	*	0†	*	*	0†	0	*
Hypospadias	21	21	0	12	12	0	6	6	0	0†	*	0	0	0	0	0	0	0
Unknown congenital anomalies	145	81	64	72	34	38	46	32	14	10†	*	6	14	8	6	0†	*	0
Ratio per 100 births^a	0.5	0.6	0.5	0.6	0.6	0.6	0.5	0.6	0.4	0.4	0.5	0.3	0.8	0.9	0.8	0.2	0.2	0.2

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 For denominators see Table 5B-8.



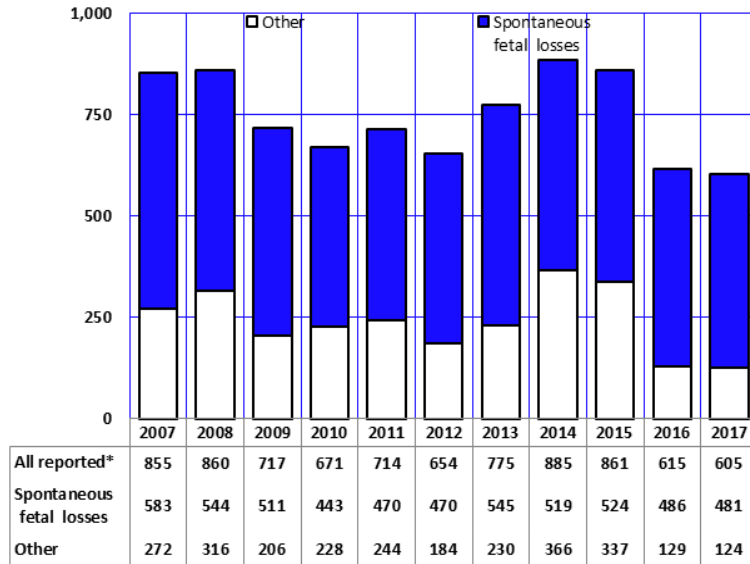
1C.

FETAL, PERINATAL, AND MATERNAL DEATHS

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

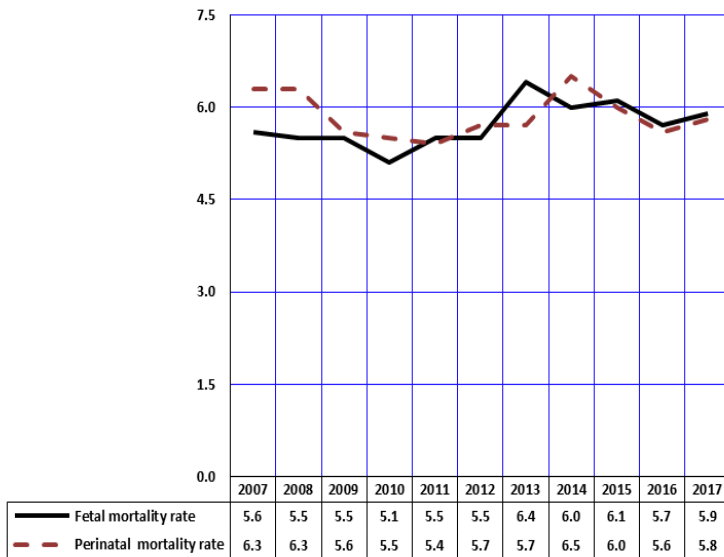
Figure 1C-1
Trends in Fetal Deaths, Arizona, 2007-2017



The number of all reported fetal deaths in Arizona (including late term abortions) in 2017 was 605, a 1.6 percent decrease from 2016 (**Figure 1C-1, Table 1C-3**). In 2017, the annual number of reportable spontaneous fetal losses decreased 1.0 percent from 486 in 2016 to 481 in 2017. (**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^a and Perinatal^b Mortality Rates, Arizona, 2007-2017



The fetal mortality rate increased slightly from a rate of 5.7 deaths at 20 or more weeks of gestation per 1,000 live births in 2016 to a rate of 5.9 deaths in 2017. From 2015 to 2016, the total number of fetal losses dropped from 524 to 486*. The decline persisted until 2017 where 481 spontaneous fetal losses were recorded.

Perinatal mortality refers here to death of a fetus of at least 28 weeks gestational age, or of an infant less than 7 days old. The perinatal death rate per 1,000 live births has been below 6 deaths per 1,000 since 2009 then increased at 6.5 in 2014. The perinatal mortality rate of 5.8 in 2017 represented a slight increase from the 2016 rate (**Figure 1C-2, Table 1C-3**).

Early infant deaths accounted for 234 or 49.6 percent of the 472 perinatal deaths in 2017 (**Figure 1C-2, Table 1C-3**).

Notes: ^a Rate is the number of events per 1,000 live births and fetal deaths. ^b 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.

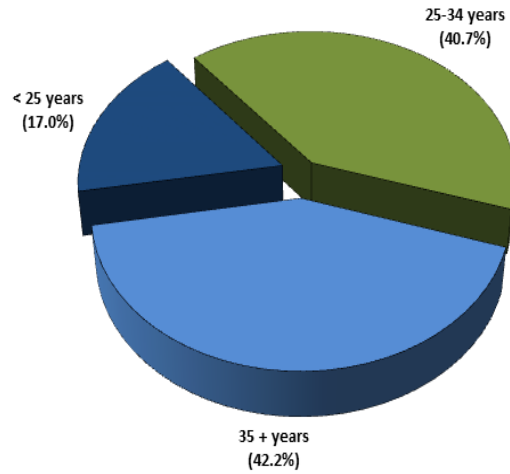
*A production error occurred in the previous report. The 2016 total number of fetal losses is the revised figure.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

Figure 1C-3
Percent of Death from Maternal Causes by Mother's Age Group, Arizona, 2007-2017

In 2017, 23 women giving birth were reported to have died from maternal causes (**Table 1C-1**). This represents a decline from 26 maternal deaths recorded in 2016*, but almost a threefold increase since 2015. 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 135 maternal deaths from 2007 to 2017, women age 35 and older had the highest proportional contribution to maternal mortality followed by women age 25 - 34, and women age 24 and younger (**Figure 1C-3**).

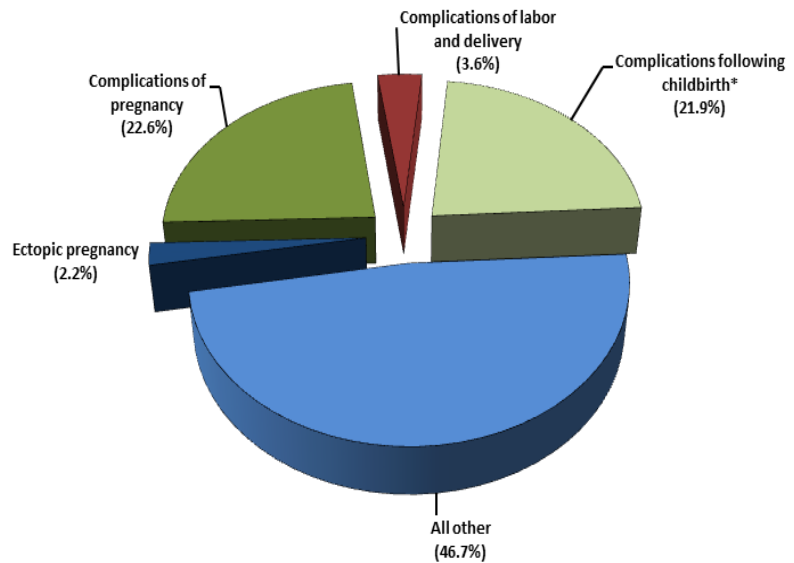


Note: The number of maternal deaths increased from 8 in 2015 to 26 in 2016.

*A production error occurred in the previous report. The 2016 total number of maternal deaths is the revised figure.

Figure 1C-4
Causes of Maternal Mortality^a, Arizona, 2007-2017

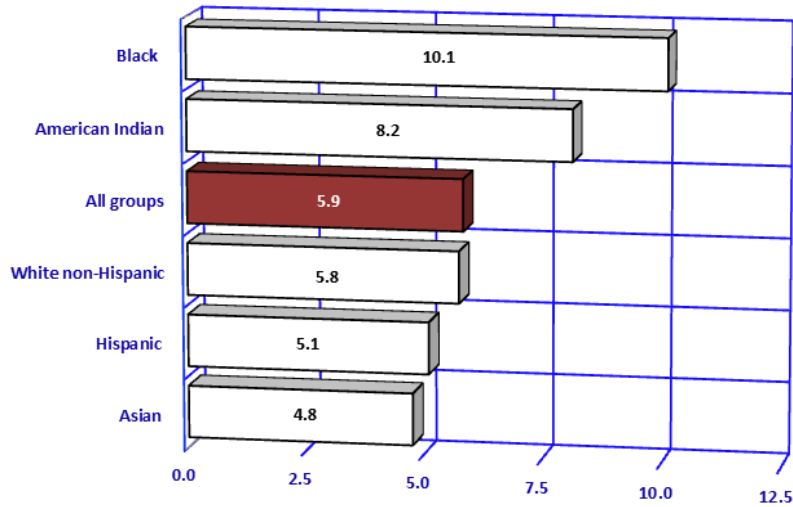
In the eleven-year period from 2007 to 2017, the major causes of maternal deaths in the state have included complications following childbirth (i.e. complications of the puerperium), complications mainly related to pregnancy, complications occurring in the course of labor and delivery, and ectopic pregnancy. All other possible causes of maternal death accounted for 46.7 percent of the maternal deaths from 2007 to 2017 (**Figure 1C-4**, **Table 1C-2**).



Notes: ^a Based on the total number of maternal deaths from 2007 to 2017; * Complications of the puerperium.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

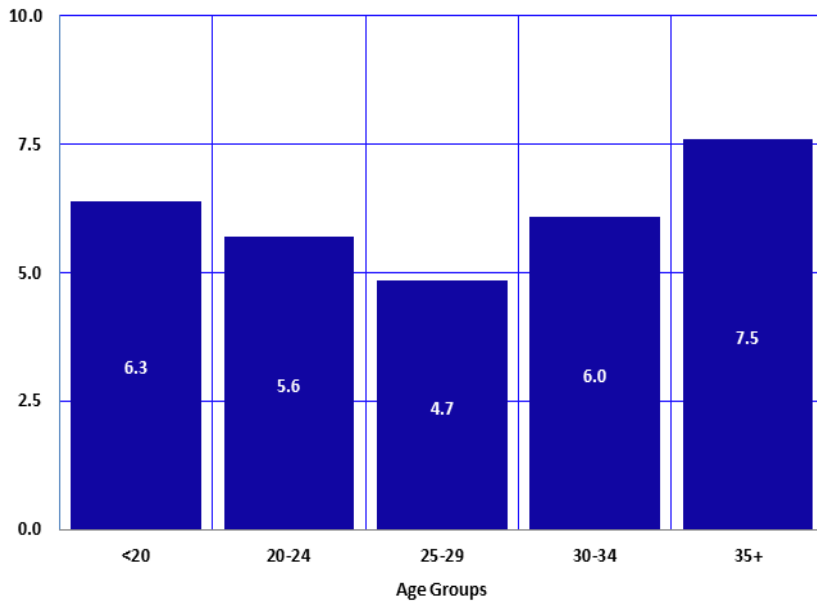
Figure 1C-5
Fetal Mortality Rates by Race/Ethnicity, Arizona, 2017



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 10.1 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 (8.2), while the rates of White non-Hispanic (5.8), Hispanic or Latino (5.1), and Asian women (4.8) were below the state average.

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

Figure 1C-6
Fetal Mortality Rates by Mother's Age Group, Arizona, 2017



Fetal mortality rates vary by maternal age (**Figure 1C-6**). In 2017 fetal mortality rates were lowest for women aged 25-29 years and highest for women aged 35 years and older. The fetal mortality rate for mothers aged 35 and older decreased by 13.8 percent from 2016.

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

**TABLE 1C-1 (CORRECTION)
MATERNAL DEATHS^a BY AGE GROUP AND YEAR, ARIZONA, 2007-2017**

Year	Total maternal deaths	Under <15	15-19	20-24	25-29	30-34	35-39	40-44	45+
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	*	*	*
2015	10†	0	0	0	*	0	*	*	0
2016	30†	0	*	*	*	7	*	*	0
2017	20†	0	*	*	*	*	9	*	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; ^a Maternal deaths are those assigned to complications of pregnancy, childbirth, and puerperium, 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, 2007-2017**

Cause of death (ICD-10 codes)	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
PREGNANCY WITH ABORTIVE OUTCOME (O00-O07)	*	*	*	0	0	0	*	*	0	*	0
Ectopic pregnancy (O00)											
COMPLICATIONS MAINLY RELATED TO PREGNANCY (O10-O16)	*	*	*	*	*	*	*	*	*	*	6
COMPLICATIONS OCCURRING IN THE COURSE OF LABOR AND DELIVERY (O60-O75)	0	*	*	0	0	0	*	0	*	0	0
COMPLICATIONS OF THE PUERPERIUM^a (O85-O92)	*	*	*	*	*	7	0	0	*	*	6
ALL OTHER	*	*	0	*	*	8	*	7	*	20	11
TOTAL	10†	10†	10†	10†	10†	20†	10†	10†	10†	30†	23

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 Complications following childbirth are category codes from the Tenth Revision of the *International Classification of Diseases*.

**TABLE 1C-3
FETAL AND PERINATAL DEATHS AND RATES BY YEAR, ARIZONA, 2007-2017**

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
NUMBER OF ALL REPORTED FETAL DEATHS Includes spontaneous and induced terminations of pregnancy at 20 or more weeks of gestation (or if gestational age unknown, the deaths of fetuses of at least 350 grams or more) and some stillbirths prior to 20 weeks and of any weight. Excludes fetal deaths occurring in Arizona to out-of-State residents.	855	860	717	671	714	654	775	885	861	615	605
NUMBER OF REPORTABLE FETAL DEATHS Includes spontaneous and induced terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight).	729	724	621	581	619	588	554	653	665	613	602
NUMBER OF REPORTABLE SPONTANEOUS FETAL LOSSES Includes spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight). Excludes induced terminations of pregnancy.	583	544	511	443	470	470	545	519	524	486	481
RATE OF REPORTABLE SPONTANEOUS FETAL LOSSES^a	5.6	5.5	5.5	5.1	5.5	5.5	6.4	6.0	6.1	5.7	5.9
NUMBER OF PERINATAL DEATHS Spontaneous fetal losses of 28 or more weeks of gestation	649	632	524	483	465	487	483	551	510	475	472
Infant deaths of less than 7 days	359	339	281	269	249	266	221	286	235	239	234
PERINATAL DEATH RATE^b	6.3	6.3	5.6	5.5	5.4	5.7	5.7	6.5	6.0	5.6	5.8

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

**TABLE 1C-4
SELECTED CHARACTERISTICS OF REPORTABLE SPONTANEOUS^a FETAL LOSSES BY YEAR, ARIZONA, 2007-2017**

Characteristic	Year										
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total reportable spontaneous fetal losses	583	544	511	443	470	470	545	519	524	486	481
Gender											
Male	300	295	262	229	218	239	260	293	296	248	226
Female	277	246	244	208	245	222	256	222	225	227	234
Unknown	*	*	*	6	7	9	29	*	*	11	21
Mother's race/ethnicity											
White non-Hispanic	215	198	197	156	192	195	247	205	200	204	207
Hispanic or Latino	267	234	204	198	181	181	205	182	227	195	171
Black or African American	44	44	52	39	27	36	40	48	50	47	47
American Indian or Alaska Native	39	47	46	30	43	43	40	47	40	36	40
Asian or Pacific Islander	17	19	11	17	27	15	13	17	7	*	16
Refused/Unknown	*	*	*	*	0	0	0	20	0	0	0
Mother's age group											
<15	*	*	0	*	0	*	0	0	0	0	0
15-17	38	22	26	18	14	16	18	25	18	10	7
18-19	46	49	40	33	35	37	34	27	30	27	25
20-24	152	132	111	104	117	130	115	120	101	94	104
25-29	144	141	126	114	111	100	159	131	135	123	118
30-34	99	113	105	74	114	98	123	117	122	121	125
35-39	81	63	76	75	56	58	79	67	83	71	75
40-44	15	18	24	20	22	27	13	30	27	36	18
45+	*	*	*	*	*	*	*	0	*	*	*
Unknown	*	*	*	*	0	*	*	*	*	*	6
Gestational age^b											
20-27 weeks	292	250	264	227	255	248	282	250	248	239	241
28+ weeks	290	293	243	214	215	221	262	265	275	236	238
Unknown	*	*	*	*	0	*	*	*	*	11	*
Weight in grams											
<350 grams	96	63	110	105	96	119	108	99	117	97	99
350-499	83	54	69	66	80	68	73	74	75	77	75
500-2,499	264	253	219	173	193	179	229	236	216	217	199
2,500-3,999	108	103	89	74	80	87	103	85	85	77	81
4,000+	19	9	13	20	11	14	6	9	9	6	14
Unknown	13	62	11	*	10	*	26	16	22	12	13

Notes: * Cell suppressed due to non-zero count less than 6; ^a 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; ^b 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

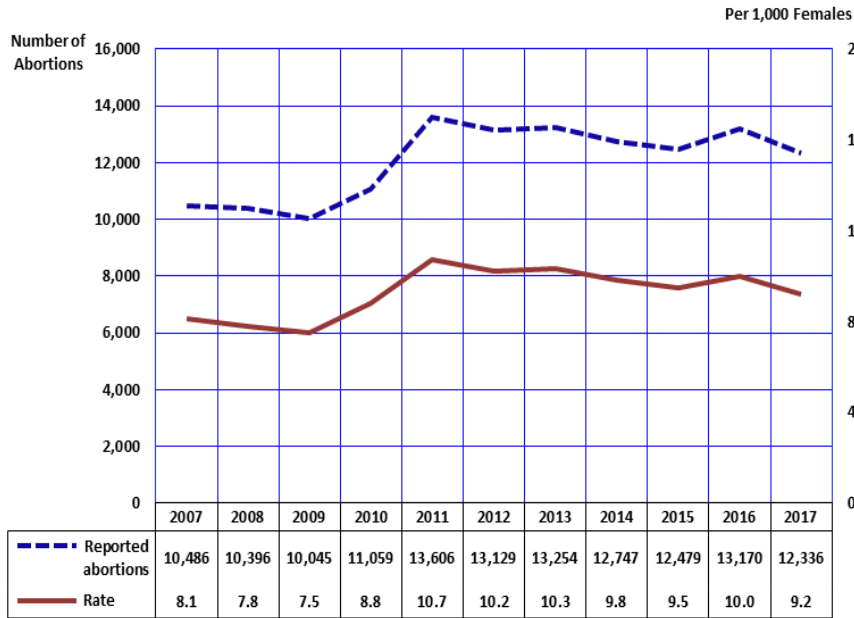
In July 1976, the Arizona Department of Health Services (ADHS) began an Abortion Surveillance Program (*Arizona Administrative Code, R9-19-302D*, as authorized by the *Arizona Revised Statute 36-344*). The program required the reporting of induced terminations of pregnancy performed in hospitals, outpatient 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 began on July 29, 2010.

Based on the information collected on race/ethnicity in the abortion reporting system, the racial/ethnic groups described in this section differ from that of other sections. In 2017, 4.7 percent (577) of abortion records had race and ethnicity identified as unknown, and 1.8 percent (216) of abortion records had two or more racial/ethnic groups identified. Due to the proportion of information on race/ethnicity that could not be categorized by the five racial/ethnic groups used through this report, this section reports numbers for records with unknown or multiple race information as separate groups.

1D. ABORTIONS

Figure 1D-1
Number of Reported Abortions and Abortion Rates^a by Year,
Arizona Residents, 2007-2017



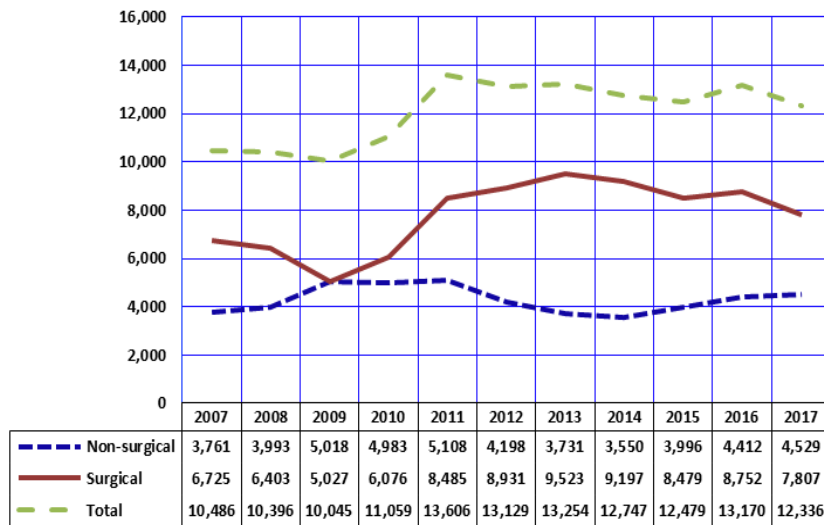
In calendar year 2017, the Arizona Department of Health Services received 12,336 reports of abortions obtained by Arizona residents, 834 less than the 13,170 reported in 2016 (**Figure 1-D1, Table 1D-1**).

There were 12,301 abortions in non-hospital clinics (**Table 1D-1**). Hospitals accounted for 31 abortion procedures, with less than 6 procedures being performed outside of clinics and hospitals.

Ninety-one percent of all reported abortions occurred at or before 13 weeks of pregnancy. Few reported abortions occurred after 14 or more weeks of gestation: 8.0 percent at 14 weeks or more (percentages based on data in **Table 1D-3**).

Notes: ^a 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, 2007-2017

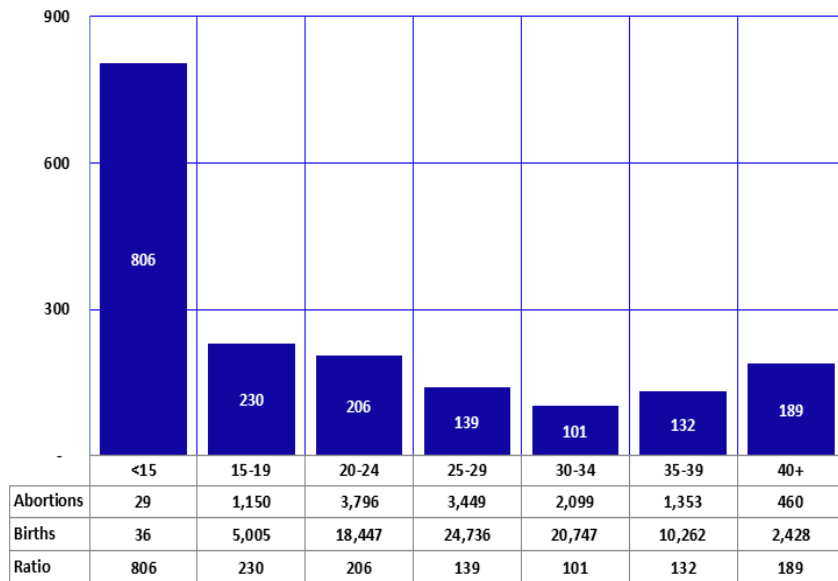


The rate of induced terminations of pregnancy per 1,000 female residents aged 15-44 decreased from 10.0 in 2016 to 9.2 in 2017 (**Table 1D-1**).

Trends in the percent of abortions conducted through surgical and non-surgical from 2007 to 2017 indicate shifting practices in methods used to complete abortions. In 2007, 64.1 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 63.3 percent of all abortion procedures conducted in 2017 being surgical procedures.

1D. ABORTIONS

Figure 1D-3
Abortion Ratios^a by Age Group, Arizona Residents, 2017

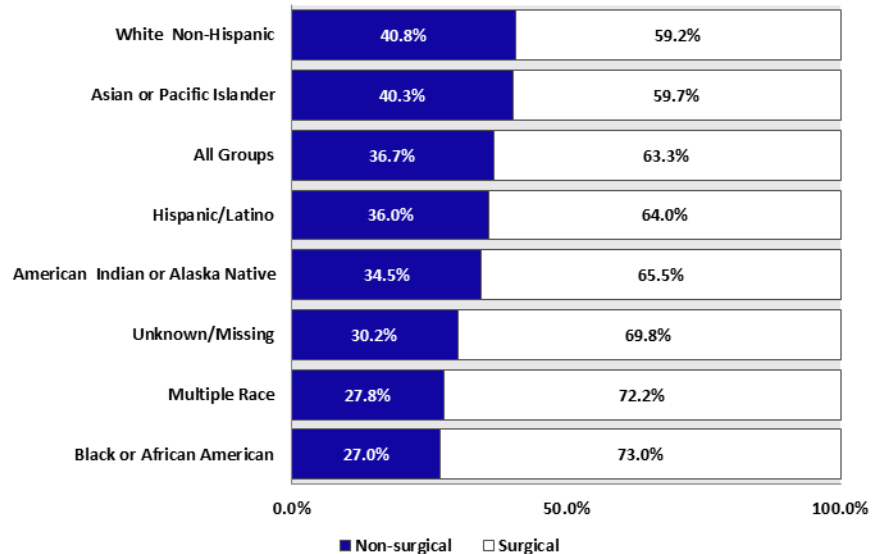


Abortion ratios (the number of abortions per 1,000 live births in each age group) vary by age at reported termination of pregnancy. Ratios tend to be higher at the extremes of the age distribution of the childbearing period, i.e., among women under age 15 and those aged 40 years or older (**Figure 1D-3**).

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

Note: ^a Number of reported abortions per 1,000 live births in specified group.

Figure 1D-4
Proportional Contribution of Non-Surgical^a and Surgical Abortions by Race/Ethnicity, Arizona Residents, 2017



In 2017 non-surgical (also called “medical”) abortions made up 36.7 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 proportion of non-surgical abortions among Black or African American women was the lowest among racial/ethnic groups.

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

**TABLE 1D-1 (CORRECTION)
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 2007-2017**

Characteristics	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
ABORTIONS PERFORMED IN ARIZONA	10,721	10,660	10,271	11,438	14,401	13,340	13,401	12,900	12,655	13,332	12,533
RESIDENT ABORTIONS	10,486	10,396	10,045	11,059	13,606	13,129	13,254	12,747	12,479	13,170	12,336
RACE/ETHNICITY											
White non-Hispanic	5,202	4,737	4,759	5,241	2,385	1,904	2,515	5,562	5,378	5,321	4,762
Hispanic or Latino	3,719	3,124	3,303	3,422	4,274	3,393	4,189	4,499	4,350	4,823	4,639
Black or African American	675	744	736	476	145	116	189	981	1,074	1,253	1,196
American Indian	310	297	300	218	48	38	61	291	331	340	348
Asian or other Pacific Islander	454	412	390	254	47	75	110	534	532	608	598
Multiple race ^a	NA	NA	NA	NA	4,442	2,985	4,257	361	175	244	216
Refused/Unknown	126	1,082	557	1,448	2,265	4,618	1,933	519	639	581	577
AGE											
19 years and under	1,979	1,813	1,519	1,512	1,785	1,539	1,441	1,249	1,189	1,297	1,179
20-29 years	5,839	5,854	5,753	6,278	7,814	7,602	7,676	7,520	7,265	7,680	7,245
30 years and over	2,652	2,403	2,532	3,113	4,007	3,987	4,136	3,978	4,021	4,186	3,912
Not stated	16	326	241	156	NA	*	*	0	*	7	0
YEARS OF EDUCATION											
Elementary/secondary (1-12)	9,293	6,964	5,244	4,316	4,757	3,615	2,400	1,372	2,561	3,234	3,228
College (1-4 or 5+)	1,193	2,565	3,372	3,199	2,252	2,518	2,522	2,706	3,203	3,801	3,365
Not stated or unknown	0	867	1,429	3,544	6,597	6,996	8,332	8,064	6,715	6,135	5,743
WEEKS OF GESTATION											
12 weeks or under	9,498	9,175	9,238	9,967	12,156	11,677	11,767	11,232	11,062	11,762	10,917
13 weeks or over	974	916	597	948	1,427	1,432	1,487	1,507	1,411	1,396	1,419
Not stated or unknown	14	305	210	144	23	20	0	8	6	12	0
FACILITY											
Clinic	10,486	10,391	9,362	9,689	14,358	13,072	13,023	12,671	12,065	13,139	12,301
Hospital	0	0	0	16	42	54	152	70	24	27	31
Other	0	*	683	^d 1,354	0	*	79	6	390	*	*

**TABLE 1D-1 (continued)
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 2007-2017**

Characteristics	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
PREVIOUS LIVE BIRTHS											
None	4,517	4,441	4,377	4,867	5,820	5,829	5,810	5,201	5,267	5,586	5,326
One or more	5,969	5,955	5,668	6,178	7,772	7,280	7,387	7,337	7,187	7,542	6,972
PREVIOUS ABORTIONS											
None	6,453	6,338	5,874	6,746	8,382	8,445	8,450	7,872	7,843	8,177	7,900
One or more	4,033	4,058	4,171	4,282	5,183	4,616	4,672	4,616	4,549	4,913	4,365
PREVIOUS SPONTANEOUS TERMINATIONS OF PREGNANCY											
None	8,807	8,756	8,424	9,300	11,257	10,941	10,825	10,241	10,146	10,462	9,930
One or more	1,679	1,640	1,621	1,643	2,301	2,108	2,283	2,213	2,220	2,613	2,307
NONSURGICAL ABORTIONS											
	3,761	3,993	5,018	4,983	5,108	4,198	3,731	3,550	3,996	4,412	4,529
ABORTION RATIO^b	102.1	104.8	108.5	127.0	159.7	153.2	156.0	147.1	146.8	156.0	151.1
ABORTION RATE^c	8.1	7.8	7.5	8.8	10.7	10.2	10.3	9.8	9.5	10.0	9.2

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

**TABLE 1D-2
PROPORTION, RATES, AND RATIOS^a OF ABORTIONS BY RACE/ETHNICITY PER YEAR, ARIZONA, 2007-2017**

Race and Ethnicity	Year										
	2007	2008	2009	2010	2011 ^e	2012	2013	2014	2015	2016	2017
Percent of Abortions^b											
White non-Hispanic	49.6	45.6	47.4	47.4	17.5	14.5	19.0	43.6	43.1	40.4	38.6
Hispanic or Latino	35.5	30.1	32.9	30.9	31.4	25.8	31.6	35.3	34.9	36.6	37.6
Black or African American	6.4	7.2	7.3	4.3	1.1	0.9	1.4	7.7	8.6	9.5	9.7
American Indian or Alaska Native	3.0	2.9	3.0	2.0	0.4	0.3	0.5	2.3	2.7	2.6	2.8
Asian or Pacific Islander	4.3	4.0	3.9	2.3	0.3	0.6	0.8	4.2	4.3	4.6	4.8
Multiple races	NA	NA	NA	NA	32.6	22.7	32.1	2.8	1.4	1.9	1.8
Refused/Unknown	1.2	10.4	5.5	13.1	16.6	35.2	14.6	4.1	5.1	4.4	4.7
Abortion Rates^c											
White non-Hispanic	7.3	6.5	6.4	8.2	3.7	2.9	3.8	8.6	8.3	8.3	7.4
Hispanic or Latino	9.2	7.6	8.0	8.0	9.9	7.7	9.3	10.6	9.1	9.9	9.3
Black or African American	12.7	13.8	13.3	8.5	2.5	2.0	3.2	12.8	16.3	18.4	17.0
American Indian or Alaska Native	3.8	3.6	3.6	3.2	0.6	0.6	0.9	3.4	5.1	5.2	5.2
Asian or Pacific Islander	10.4	9.3	8.7	5.2	0.9	1.6	2.3	8.5	9.2	10.1	9.9
Multiple races	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Refused/Unknown	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Abortion Ratio^d											
White non-Hispanic	123	113	120	135	62	49	66	139	141	141	133
Hispanic or Latino	81	73	86	100	132	102	127	133	127	142	140
Black or African American	162	173	168	110	33	25	40	217	246	286	260
American Indian or Alaska Native	48	47	49	37	8	7	11	57	65	68	72
Asian or Pacific Islander	133	120	115	77	13	21	32	169	164	181	180
Multiple races	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Refused/Unknown	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes: ^a Number of resident abortions performed in Arizona per 1,000 resident live births in specified race/ethnicity group; ^b 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; ^c 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; ^d Calculated using the number of abortions per 1,000 live births; ^e 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, 2017**

Age	Gestational Age					
	≤13 weeks		14 to 20 weeks		≥21 or more weeks	
	Count	Percent	Count	Percent	Count	Percent
<15 yrs	22	75.9	7	24.1	*	**
15-19 yrs	1,009	87.7	124	10.8	17	1.5
20-24 yrs	3,435	90.5	307	8.1	53	1.4
25-29 yrs	3,168	91.9	248	7.2	33	1.0
30-34 yrs	1,911	91.0	160	7.6	28	1.3
35-39 yrs	1,215	89.8	116	8.6	22	1.6
≥40 yrs	430	93.5	27	5.9	*	**
Totals	11,190	90.7	989	8.0	160†	1.3

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

**TABLE 1D-4
ABORTIONS BY WEEK OF GESTATION AND RACE/ETHNICITY, ARIZONA, 2017**

Week of gestation	Total	Race/ethnicity							Multiple race	Refused / Unknown race
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	American Indian or Alaska Native	Asian or Pacific Islander		
Total	12,336	4,762	4,639	1,200†	350†	600†	220†	580†		
6 weeks or less	3,870	1,655	1,350	295	73	260	64	173		
7	2,455	943	971	199	56	116	39	131		
8	1,722	694	633	171	51	63	31	79		
9	1,249	412	497	159	48	43	16	74		
10	660	230	261	73	23	34	11	28		
11	628	219	241	90	21	16	9	32		
12	333	113	129	43	13	11	8	16		
13	273	91	104	34	12	12	7	13		
14	250†	84	103	24	15	6	*	8		
15	240†	85	104	24	*	8	6	7		
16	140†	52	46	19	8	*	*	*		
17	120†	36	43	21	7	7	*	*		
18	100†	31	33	14	7	*	*	*		
19	90†	32	33	10	*	*	*	6		
20	70†	28	27	*	*	*	*	0		
21+	157	57	64	16	6	7	7	0		

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