

CHAPTER 1

REPRODUCTIVE AND PERINATAL HEALTH, ARIZONA, 2006-2016

- 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.

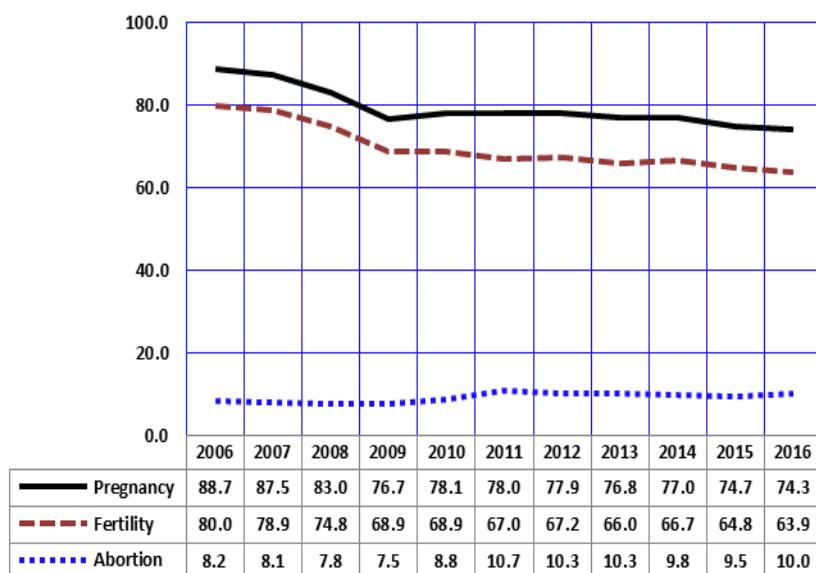
PREGNANCIES BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND AGE GROUP

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 98,060 pregnancies in Arizona in 2016 compared to 98,027 in 2015, 99,914 in 2014, and 113,756 in 2007. The number of resident live births decreased by 0.7 percent, from 85,024 in 2015 to 84,404 in 2016 (**Table 1A-1**). The number of reported abortions increased by 5.54 percent, from 12,479 in 2015 to 13,170 in 2016. The number of reportable spontaneous fetal losses decreased 7.3 percent, from 524 in 2015 to 486 in 2016.

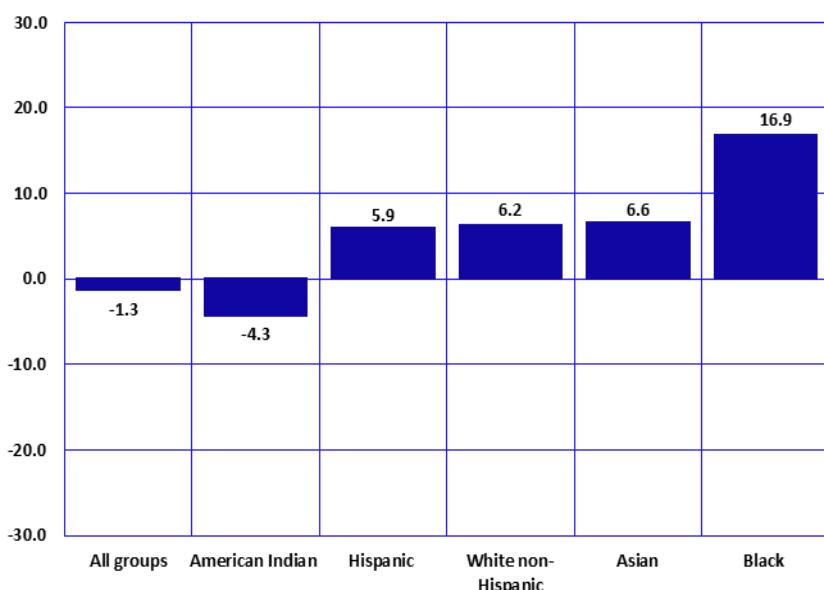
1A. PREGNANCIES BY PREGNANCY OUTCOME, ETHNICITY, AND AGE GROUP

Figure 1A-1
Pregnancy, Fertility, and Abortion Rates^a by Outcome and Year among Females of Childbearing Ages (15 – 44 years), Arizona, 2006–2016



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

Figure 1A-2
Percent Change from 2012 to 2016 in the Number of Pregnancies by Woman's Race/Ethnicity, Arizona



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 74.7 pregnancies per 1,000 females of childbearing age in 2015 to 74.3 pregnancies per 1,000 females of childbearing age in 2016 (**Figure 1A-1, Table 1A-1**).

The fertility rate (the number of births per 1,000 women of childbearing age) also decreased from 64.8/1,000 in 2015 to 63.9/1,000 in 2016. The fertility rate in 2016 was 20.1 percent lower than the recent high of 2006.

The abortion rate (the number of abortions per 1,000 women of childbearing age) increased 5.0 percent from 2015 to 2016.

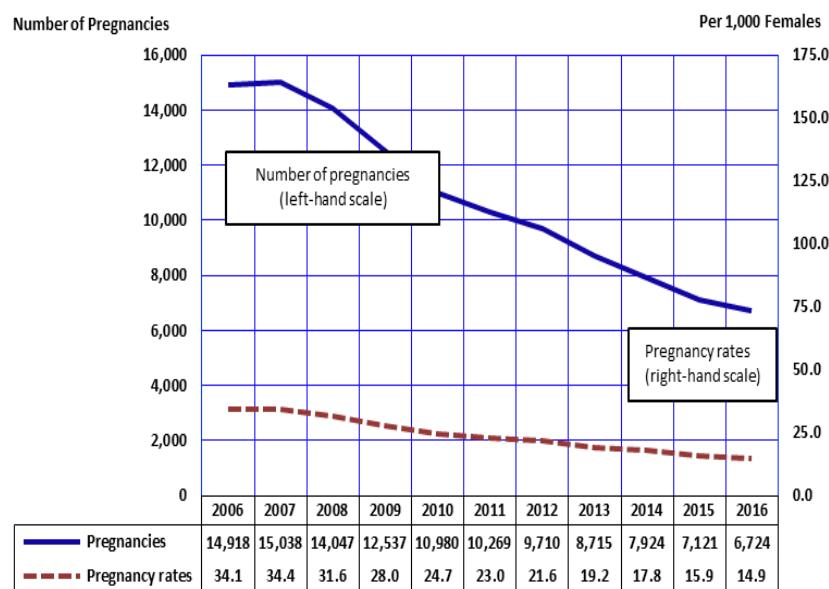
Overall, pregnancies in Arizona decreased 1.3 percent from 2012 to 2016. The changes in number of pregnancies varied by race/ethnicity. The overall number of pregnancies increased for almost all racial/ethnic groups from 2012 to 2016, except among American Indian females. Black females (16.9 percent) and Asian females (6.6 percent) experienced the largest percent increase in number of pregnancies from 2012 to 2016, while the number of pregnancies for American Indian females decreased 4.3 percent from 2012 to 2016 (**Figure 1A-2, Table 1A-1**).

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

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

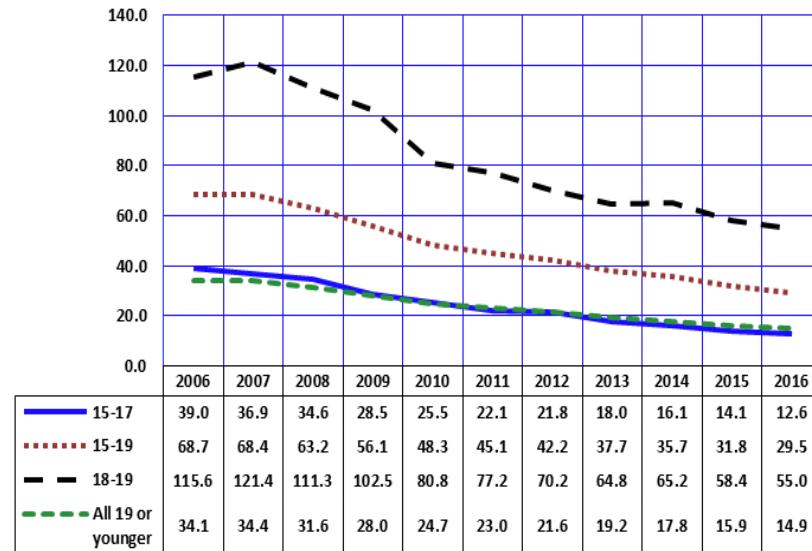
The number of teen pregnancies decreased by 55.3 percent from 15,038 in 2007 to 6,724 in 2016 (**Figure 1A-3**). The teen pregnancy rate declined even more, by 56.6 percent, from 34.4 pregnancies per 1,000 females 10-19 years in 2007 to 14.9 per 1,000 females in 2016. The number of teenage pregnancies and the teen pregnancy rate of 2016 were the lowest recorded since at least 1980.

Figure 1A-3
Trends in the Number of Pregnancies and Pregnancy Rates^a
among Females 19 or Younger, Arizona, 2006-2016



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

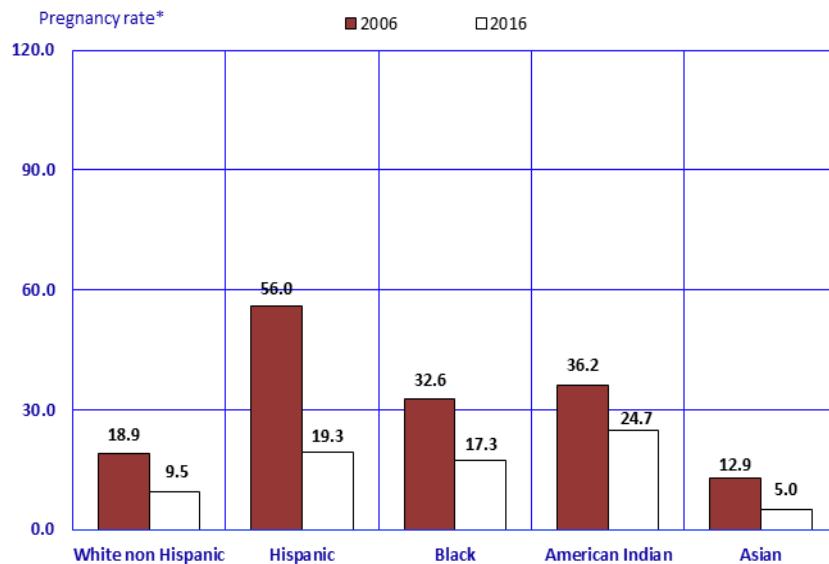
Figure 1A-4
Pregnancy Rates^a by Age Group and Year among Females 19 or Younger, Arizona, 2006-2016



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, 2006 and 2016



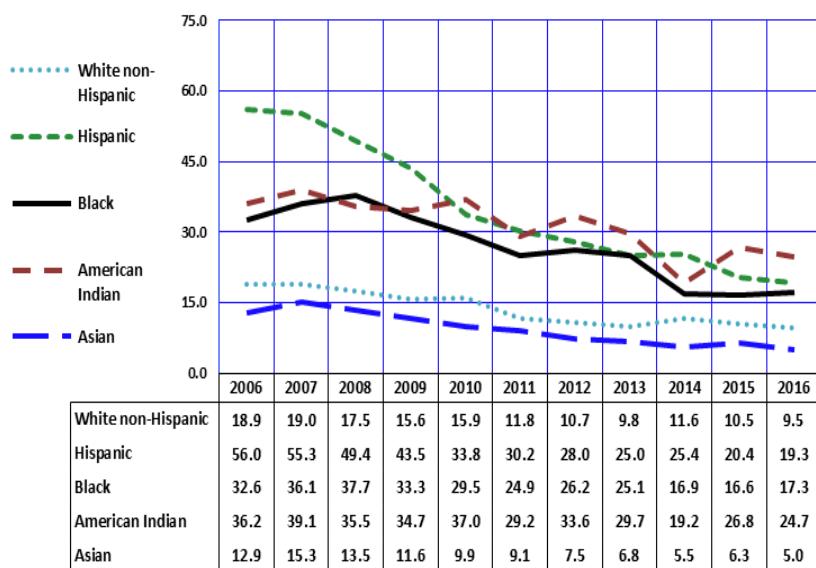
Note: ^a All rates per 1,000 females in specified age group.

Teen pregnancy rates differ by race/ethnicity.

Between 2006 and 2016, 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 65.6 percent drop from 2006 to 2016. The Asian teenage pregnancy rate decreased greatly also, by 61.0 percent from 12.9 in 2006 to 5.0 in 2016.

The changes in annual teen pregnancy rates from 2006 to 2016 are shown in detail below.

Figure 1A-6
Pregnancy Rates^a by Race/Ethnicity and Year among Females 19 or Younger, Arizona, 2006-2016



The teen pregnancy rates for all racial/ethnic groups were lower in 2016 than in 2006 (**Figure 1A-6**). Compared to 2016, the teen pregnancy rate decreased for all racial/ethnic groups, but more so among Hispanics and Asians than the remaining groups.

From 2015 to 2016, teenage pregnancy rates decreased 20.1 percent for Asian females, 9.5 percent for White non-Hispanic females, 7.8 percent among American Indian and 5.6 percent for Hispanic females, while the rate increased 4.2 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

Figure 1A-7
Proportional Contribution by Race/Ethnicity to Pregnancies and Live Births among Females 19 or Younger, Arizona, 2016

In 2016, Hispanic females accounted for approximately 43.0 percent of all females 10-19 years old in Arizona. As in the past, they accounted for a large percentage of teen pregnancies (55.4 percent) and live births (58.2 percent; **Figure 1A-7**). In contrast, White non-Hispanic females made up a larger proportion of all females 10-19 years old in Arizona, but had a lower proportional contribution to teen pregnancies (27.3 percent) and live births (25.0 percent). Note: percentages are based on the number of pregnancies and births in **Table 1A-5**.

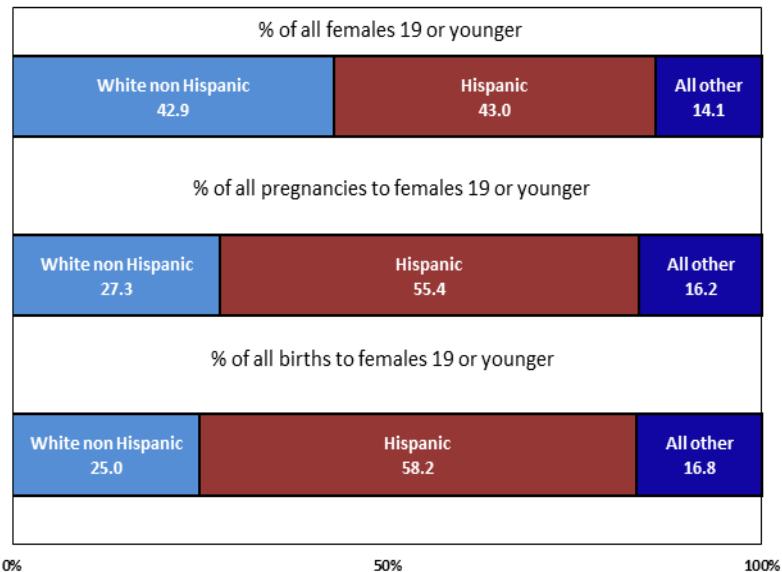
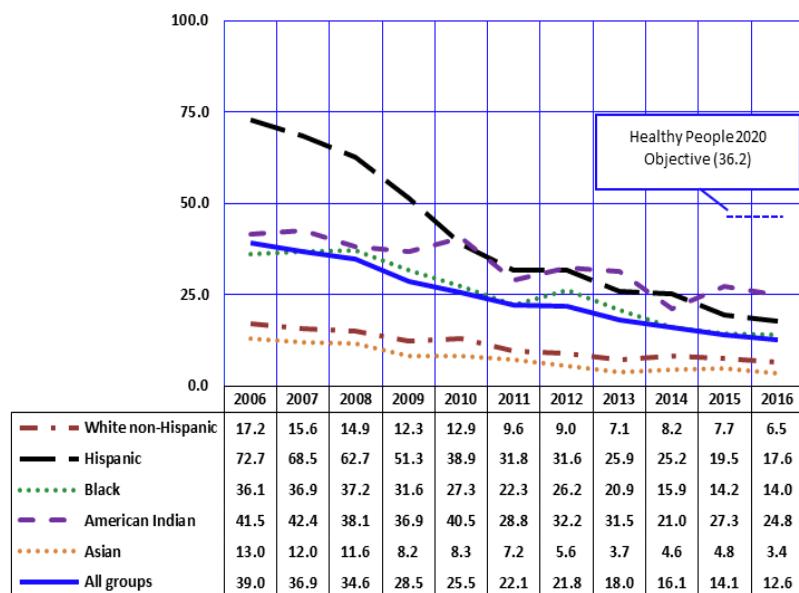


Figure 1A-8
Pregnancy Rates by Race/Ethnicity and Year among Females 15-17 Years: 2006-2016 and the "Healthy Arizona 2020" Objective

In 2016, the pregnancy rate of 12.6 pregnancies per 1,000 adolescent females 15-17 years old in Arizona was 65.2 percent lower than the **Healthy People 2020** objective of 36.2/1,000 (**Figure 1A-8, Table 1A-3**). The 2016 pregnancy rate among Asians age 15-17 was 10.6 times lower than the objective and among White non-Hispanics 5.6 times lower than the objective. While lower than the 2020 objective, the pregnancy rates of American Indians, Hispanics, and Blacks were substantially higher than their White non-Hispanic and Asian counterparts.



Note: * 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, 2006-2016**

Race/Ethnicity Pregnancy outcome	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2016 Rates
WHITE^c NON-HISPANIC, total:	48,329	47,633	46,860	44,737	44,174	40,871	40,769	40,982	45,864	43,758	43,287	67.7
Births	43,013	42,216	41,925	39,781	38,777	38,294	38,670	38,220	40,097	38,180	37,762	59.0
Abortions	5,106	5,202	4,737	4,759	5,241	2,385	1,904	2,515	5,562	5,378	5,321	8.3
Fetal deaths	210	198	197	156	192	195	247	205	200	204	204	0.3
HISPANIC OR LATINO, total:	48,266	49,717	45,997	41,869	37,953	36,853	36,720	37,469	38,396	38,841	38,892	79.8
Births	44,862	45,731	42,639	38,362	34,333	32,398	33,146	33,075	33,715	34,264	33,874	69.5
Abortions	3,160	3,719	3,124	3,303	3,422	4,274	3,393	4,189	4,499	4,350	4,823	9.9
Fetal deaths	244	267	234	204	198	181	181	205	182	227	195	0.4
BLACK OR AFRICAN AMERICAN, total:	4,484	4,884	5,089	5,166	4,843	4,538	4,867	4,955	5,551	5,485	5,688	83.3
Births	3,864	4,165	4,301	4,378	4,328	4,366	4,715	4,726	4,522	4,361	4,388	64.3
Abortions	581	675	744	736	476	145	116	189	981	1,074	1,253	18.4
Fetal deaths	39	44	44	52	39	27	36	40	48	50	47	0.7
AMERICAN INDIAN OR ALASKA NATIVE, total:	6,744	6,757	6,706	6,516	6,063	5,921	5,650	5,577	5,483	5,355	5,406	82.6
Births	6,364	6,408	6,362	6,170	5,815	5,830	5,569	5,476	5,145	4,984	5,030	76.9
Abortions	342	310	297	300	218	48	38	61	291	331	340	5.2
Fetal deaths	38	39	47	46	30	43	43	40	47	40	36	0.6
ASIAN OR PACIFIC ISLANDER, total:	3,537	3,883	3,856	3,797	3,564	3,579	3,715	3,589	3,720	3,774	3,960†	66.0
Births	3,136	3,412	3,425	3,396	3,293	3,505	3,625	3,466	3,169	3,235	3,350	55.8
Abortions	391	454	412	390	254	47	75	110	534	532	608	10.1
Fetal deaths	10	17	19	11	17	27	15	13	17	7	*	**
ALL RACIAL/ETHNIC GROUPS^d, total:	113,091	113,756	110,155	103,172	98,548	99,266	99,324	98,762	99,914	98,027	98,060	74.3
Births	102,042	102,687	99,215	92,616	87,053	85,190	85,725	84,963	86,648	85,024	84,404	63.9
Abortions	10,506	10,486	10,396	10,045	11,059	13,606	13,129	13,254	12,747	12,479	13,170	10.0
Fetal deaths	543	583	544	511	443	470	470	545	519	524	486	0.4
Pregnancy rate, total:	88.7	87.5	83.0	76.7	78.1	78.0	77.9	76.8	77.0	74.7	74.3	
Fertility rate^e	80.0	78.9	74.8	68.9	67.0	67.2	66.0	66.7	64.8	63.9	63.9	
Abortion rate	8.2	8.1	7.8	7.5	8.8	10.7	10.3	10.3	9.8	9.5	10.0	

Notes: * Cell suppressed due to non-zero count less than 6; ** Cell rounded to nearest tens unit due to non-zero addend less than 6; † 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, 2006-2016

Race/ethnicity Pregnancy outcome	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2016 Rates
WHITE^c NON-HISPANIC, total:	1,204	1,165	1,074	894	770	600	564	448	496	462	401	2.6
Births	871	805	784	669	553	507	483	373	352	344	291	1.9
Abortions	324	353	287	218	214	90	71	72	140	117	107	0.7
HISPANIC OR LATINO, total:	3,281	3,286	3,057	2,496	2,106	1,731	1,728	1,443	1,292	1,144	1,055	6.8
Births	3,046	3,007	2,835	2,340	1,927	1,528	1,574	1,291	1,138	1,000	909	5.8
Abortions	217	254	207	144	167	196	150	142	141	131	139	0.9
BLACK OR AFRICAN AMERICAN, total:	255	268	266	221	189	170†	174	140	145	106	111	5.6
Births	194	207	215	187	161	162	164	128	107	78	84	4.2
Abortions	57	55	48	31	25	*	9	9	36	27	27	1.4
AMERICAN INDIAN OR ALASKA NATIVE, total:	477	504	452	436	361	310†	260†	260†	217	204	191	10.2
Births	449	471	430	411	345	307	258	251	205	184	178	9.5
Abortions	25	30	19	22	15	*	*	*	7	17	13	0.7
ASIAN OR PACIFIC ISLANDER, total:	43	43	41	30	30†	30†	20†	20†	25	20†	20†	1.3
Births	29	31	27	20	24	28	18	13	14	17	12	1.0
Abortions	14	12	14	9	*	*	*	*	11	*	*	**
ALL RACIAL/ETHNIC GROUPS^d, total:	5,347	5,300	4,970	4,101	3,513	3,089	2,976	2,476	2,193	1,953	1,792	5.0
Births	4,620	4,541	4,312	3,633	3,015	2,548	2,497	2,056	1,816	1,623	1,474	4.1
Abortions	693	718	634	442	479	527	463	402	352	312	308	0.9
Pregnancy rate, total:	15.1	14.8	13.7	11.2	10.0	8.7	8.4	6.9	6.1	5.4	5.0	
Fertility rate^e	13.0	12.7	11.9	9.9	8.6	7.2	7.1	5.8	5.1	4.5	4.1	
Abortion rate	2.0	2.0	1.7	1.2	1.4	1.5	1.3	1.1	1.0	0.9	0.9	

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 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, 2006-2016**

Race/ethnicity Pregnancy outcome	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2016 Rates
WHITE^c NON-HISPANIC, total:	1,157	1,067	1,038	863	742	577	549	434	481	451	382	6.5
Births	852	779	769	649	541	494	475	365	344	339	283	4.8
Abortions	296	282	266	207	198	80	65	66	133	111	96	1.6
HISPANIC OR LATINO, total:	3,131	3,126	2,911	2,401	2,021	1,653	1,670	1,390	1,262	1,103	1,015	17.6
Births	2,923	2,892	2,724	2,253	1,859	1,467	1,528	1,244	1,115	972	877	15.2
Abortions	193	210	173	136	151	179	138	136	134	118	131	2.3
BLACK OR AFRICAN AMERICAN, total:	239	242	248	212	178	160†	166	133	138	103	104	14.0
Births	187	195	203	181	151	152	159	122	102	77	81	10.9
Abortions	48	42	43	28	24	*	6	8	34	25	23	3.1
AMERICAN INDIAN OR ALASKA NATIVE, total:	457	470	428	419	345	300†	250†	250†	210†	193	178	24.8
Births	430	445	408	394	331	293	251	243	196	177	167	23.2
Abortions	24	22	17	22	13	*	*	*	*	13	11	1.5
ASIAN OR PACIFIC ISLANDER, total:	39	39	38	30†	30†	26	20†	10†	23	20†	20†	3.4
Births	28	31	26	18	23	26	17	11	13	17	12	2.7
Abortions	11	8	12	*	*	0	*	*	10	*	*	**
ALL RACIAL/ETHNIC GROUPS^d, total:	5,105	4,975	4,740	3,945	3,363	2,939	2,860	2,385	2,125	1,887	1,707	12.6
Births	4,450	4,361	4,151	3,501	2,910	2,447	2,430	1,985	1,770	1,582	1,420	10.5
Abortions	624	576	567	418	435	478	414	382	330	287	277	2.0
Pregnancy rate, total:	39.0	36.9	34.6	28.5	25.5	22.1	21.8	18.0	16.1	14.1	12.6	
Fertility rate^e	34.0	32.3	30.3	25.3	22.1	18.4	18.5	15.0	13.4	11.8	10.5	
Abortion rate	4.8	4.3	4.1	3.0	3.3	3.6	3.1	2.9	2.5	2.1	2.0	

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, 2006-2016**

Race/ethnicity Pregnancy outcome	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2016 Rates
WHITE^c NON-HISPANIC, total:	2,944	2,936	2,778	2,560	2,316	1,792	1,675	1,602	1,759	1,562	1,433	36.4
Births	2,338	2,295	2,209	2,046	1,833	1,582	1,494	1,408	1,187	1,056	1,056	26.8
Abortions	593	629	554	502	480	199	167	185	348	371	369	9.4
HISPANIC OR LATINO, total:	5,115	5,259	4,707	4,400	3,812	3,566	3,357	3,175	3,078	2,764	2,668	71.5
Births	4,692	4,775	4,333	4,001	3,421	3,103	3,053	2,789	2,675	2,409	2,227	59.7
Abortions	392	456	354	381	365	442	291	367	390	336	425	11.4
BLACK OR AFRICAN AMERICAN, total:	476	498	546	501	446	413	390†	397	345	294	320	63.5
Births	407	414	441	416	401	399	380	379	287	234	232	46.0
Abortions	67	81	95	79	42	13	*	14	54	58	86	17.1
AMERICAN INDIAN OR ALASKA NATIVE, total:	800	849	794	793	664	690†	640†	530†	417	423	388	83.9
Births	767	814	755	759	643	680	632	524	397	385	362	78.3
Abortions	30	33	35	30	21	*	*	*	18	34	25	5.4
ASIAN OR PACIFIC ISLANDER, total:	89	124	108	99	88	90†	68	70†	67	72	61	19.0
Births	63	72	86	68	79	83	61	66	43	46	39	12.1
Abortions	26	51	22	31	9	*	7	*	24	25	22	6.8
ALL RACIAL/ETHNIC GROUPS^d, total:	9,571	9,738	9,077	8,436	7,467	7,180	6,734	6,239	5,731	5,168	4,932	55.0
Births	8,296	8,431	7,849	7,319	6,401	5,887	5,620	5,166	4,807	4,261	3,916	43.7
Abortions	1,226	1,261	1,179	1,077	1,033	1,258	1,077	1,039	897	877	989	11.0
Pregnancy rate, total:	115.6	121.4	111.3	102.5	80.8	77.2	70.2	64.8	65.2	58.4	55.0	
Fertility rate^e	100.2	105.1	96.3	89.0	69.2	63.3	58.6	53.6	54.7	48.2	43.7	
Abortion rate	14.8	15.7	14.5	13.1	11.2	13.5	11.2	10.8	10.2	9.9	11.0	

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 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, 2006-2016**

Race/ethnicity Pregnancy outcome	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2016 Rates
WHITE^c NON-HISPANIC, total:	4,148	4,101	3,852	3,454	3,086	2,392	2,239	2,050	2,255	2,024	1,834	9.5
Births	3,209	3,100	2,993	2,715	2,386	2,089	1,977	1,781	1,757	1,531	1,347	7.0
Abortions	917	982	841	720	694	289	238	257	488	488	476	2.5
HISPANIC OR LATINO, total:	8,396	8,545	7,764	6,896	5,918	5,297	5,085	4,618	4,370	3,908	3,723	19.3
Births	7,738	7,782	7,168	6,341	5,348	4,631	4,627	4,080	3,813	3,409	3,136	16.2
Abortions	609	710	561	525	532	638	441	509	531	467	564	2.9
BLACK OR AFRICAN AMERICAN, total:	731	766	812	722	635	580	562	537	490	400	431	17.3
Births	601	621	656	603	562	561	544	507	394	312	316	12.7
Abortions	124	136	143	110	67	17	14	23	90	85	113	4.5
AMERICAN INDIAN OR ALASKA NATIVE, total:	1,277	1,353	1,246	1,229	1,025	1,000†	900†	787	634	627	579	24.7
Births	1,216	1,285	1,185	1,170	988	987	890	775	602	569	540	23.1
Abortions	55	63	54	52	36	*	*	8	25	51	38	1.6
ASIAN OR PACIFIC ISLANDER, total:	132	167	149	129	117	120†	88	80†	92	92	77	5.0
Births	92	103	113	88	103	111	79	79	57	63	51	3.3
Abortions	40	63	36	40	14	*	9	*	35	28	26	1.7
ALL RACIAL/ETHNIC GROUPS^d, total:	14,918	15,038	14,047	12,537	10,980	10,269	9,710	8,715	7,924	7,121	6,724	14.9
Births	12,916	12,972	12,161	10,952	9,416	8,435	8,117	7,222	6,623	5,884	5,390	12.0
Abortions	1,919	1,979	1,813	1,519	1,512	1,785	1,539	1,441	1,249	1,189	1,297	2.9
Pregnancy rate, total:	34.1	34.4	31.6	28.0	24.7	23.0	21.6	19.2	17.8	15.9	14.9	14.9
Fertility rate^e	29.6	29.7	27.4	24.4	21.2	18.9	18.0	15.9	14.9	13.1	12.0	
Abortion rate	4.4	4.5	4.1	3.4	3.4	4.0	3.4	3.2	2.8	2.7	2.9	

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 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, 2016

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	98,060	85	1,707	4,932	23,915	29,085	23,825	11,641	2,633	230†	10†
	Births	84,404	54	1,420	3,916	19,775	25,328	21,394	10,209	2,125	183	0
	Abortions^b	13,170	31	277	989	4,046	3,634	2,310	1,361	472	43	7
	Fetal deaths	490†	0	10	27	94	123	121	71	36	*	*
White non Hispanic	Total pregnancies	43,287	19	380†	1,433	8,567	13,152	12,444	5,936	1,225	130†	0†
	Births	37,762	8	283	1,056	7,056	11,609	11,389	5,256	1,002	103	0
	Abortions^b	5,321	11	96	369	1,478	1,496	995	644	207	24	*
	Fetal deaths	200†	0	*	8	33	47	60	36	16	*	0
Hispanic or Latino	Total pregnancies	38,892	40	1,015	2,668	11,479	11,280	7,540	3,855	945	60†	10†
	Births	33,874	32	877	2,227	9,810	9,913	6,770	3,404	790	51	0
	Abortions^b	4,823	8	131	425	1,630	1,316	728	428	140	12	*
	Fetal deaths	200†	0	7	16	39	51	42	23	15	*	*
Black or African American	Total pregnancies	5,688	10†	104	320†	1,602	1,727	1,172	589	150†	10†	0
	Births	4,390†	*	81	232	1,180	1,356	950	469	105	12	0
	Abortions^b	1,250†	*	23	86	409	359	212	114	45	*	0
	Fetal deaths	50†	0	0	*	13	12	10	6	*	*	0
American Indian or Alaska Native	Total pregnancies	5,410†	10†	178	390†	1,516	1,626	1,051	520†	110†	0†	0
	Births	5,030†	11	167	362	1,391	1,527	981	484	104	*	0
	Abortions^b	340†	*	11	25	116	87	62	28	8	*	0
	Fetal deaths	40†	0	0	*	9	12	8	*	*	0	0
Asian or Pacific Islander	Total pregnancies	3,960†	0†	20†	61	478	1,080†	1,460†	680†	170	20†	0
	Births	3,350	0	12	39	338	923	1,304	596	124	14	0
	Abortions^b	610†	*	22	140	152	158	82	46	*	0	0
	Fetal deaths	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; ^aThe 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, 2016**

Age	Population	PREGNANCIES BY OUTCOME			TOTAL PREGNANCIES	
		Live births	Abortions	Spontaneous fetal losses	Number	Rate
10	45,399	0	*	0	*	**
11	44,420	0	0	0	0	0.0
12	45,022	*	6	0	7	0.2
13	44,635	9	*	0	12	0.3
14	45,498	44	20	0	64	1.4
10-14	224,974	54	31	0	85	0.4
15	46,040	167	35	*	203	4.4
16	44,961	426	85	*	513	11.4
17	44,505	827	157	7	991	22.3
15-17	135,506	1,420	277	10	1,707	12.6
18	45,206	1,537	410	13	1,960	43.4
19	44,398	2,379	579	14	2,972	66.9
18-19	89,604	3,916	989	27	4,932	55.0
Total 10-19	450,084	5,390†	1,300†	40†	6,720†	14.9

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 Rates per 1,000 female population in specific group.



1B.

NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

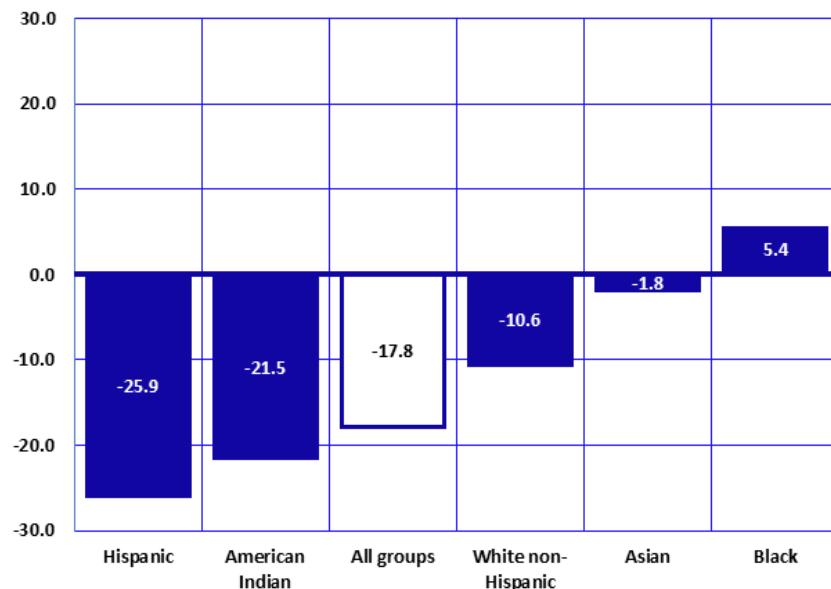
The number of resident births reached its recent peak in 2007 at 102,687 (**Table 1B-2**). In 2008, the number of resident births declined to 99,215; the first annual decline since 1991 (which, like 2008, also was an economic downturn year). Since 2008, the number of births declined until 2013, reaching a low of 84,963 resident births, the lowest number of births recorded in Arizona since 1999 (80,505). In 2016, there were 84,404 resident births, representing a reduction from the 85,024 births that occurred in 2015.

There were striking differences in how the number of births changed from 2007 to 2016 by mother's race/ethnicity. Compared to 2007, the number of births for all combined racial/ethnic groups was 17.8 percent lower in 2016, although the number of births rose by 5.4 percent for Black or African American mothers. Hispanic or Latino women experienced a decrease of 25.9 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 487,076 in 2016. 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.

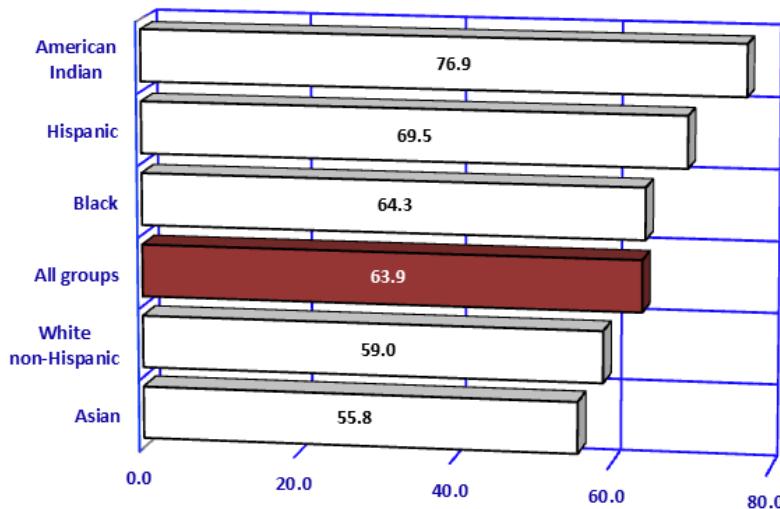
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-1
Percent Change from 2007 to 2016 in the Number of Resident Live Births by Mother's Race/Ethnicity, Arizona



From 2007 to 2016, the number of resident live births declined by 17.8 percent (**Figure 1B-1**). All racial/ethnic groups experienced a decrease in the number of live births, with the exception of Blacks. The magnitude of the reduction in the number of births was the largest among Hispanics or Latinos (-25.9 percent) and American Indians (-21.5 percent).

Figure 1B-2
General Fertility Rates^a by Race/Ethnicity among Females of all Ages, Arizona, 2016



From among 1,320,640 women of childbearing age (15-44 years), 6.4 percent gave birth in 2016. 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.

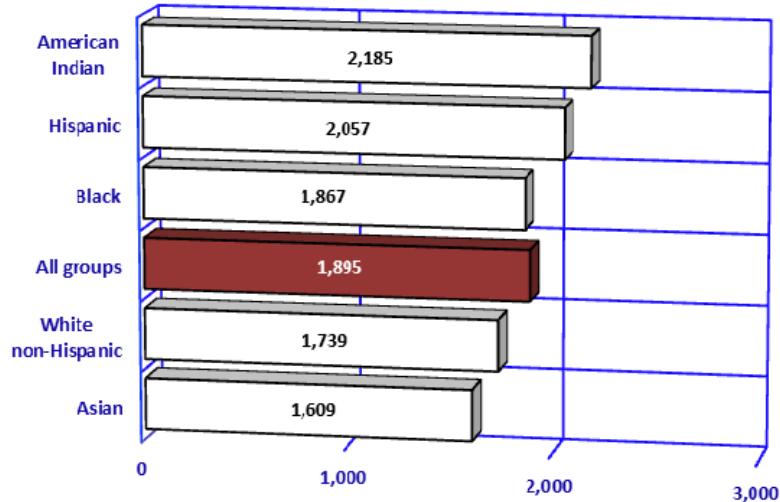
A comparison of fertility rates by county in Arizona is provided in **Table 5A-1**.

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, 2016**

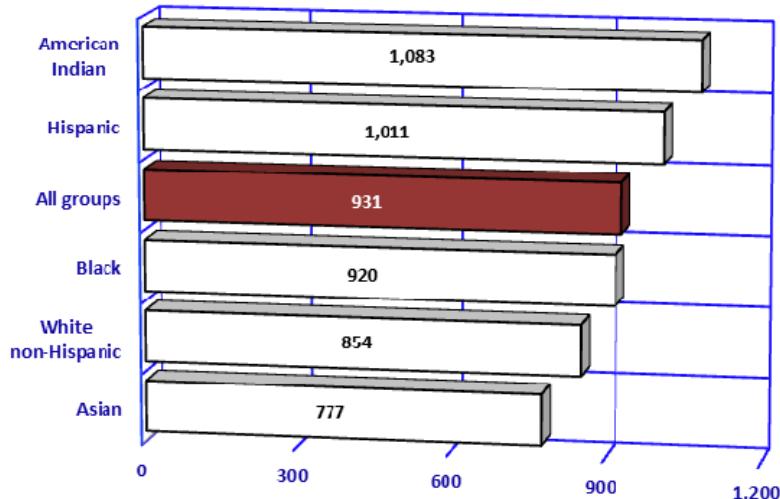
The *total fertility rate* (TFR) indicates the average number of births to a hypothetical cohort of 1,000 women, if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. From 2003 to 2008, Arizona's TFRs always exceeded the rate of "replacement" (2,110 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 1,895 in 2016. The 2016 TFR of 2,185 for American Indian women exceeded the generation replacement rate by 3.0 percent. The rate for Asian women (1,609) was 23.7 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 1,895 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 2016, they would have a total of 1,895 children (or 1.9 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, 2016**

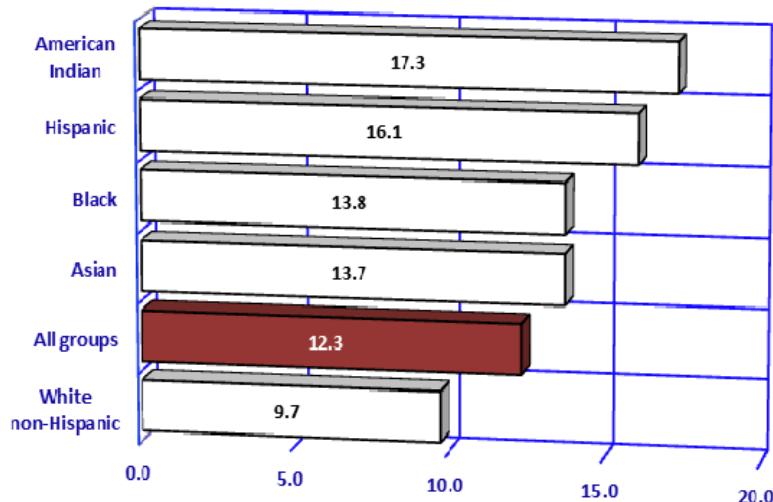
Another measure used to summarize reproduction patterns is the *gross reproduction rate* (GRR). It represents the average number of daughters born to a hypothetical cohort of 1,000 women if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. This 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 2016, the gross reproduction rates in Arizona ranged from 777 for Asian women to 1,083 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.

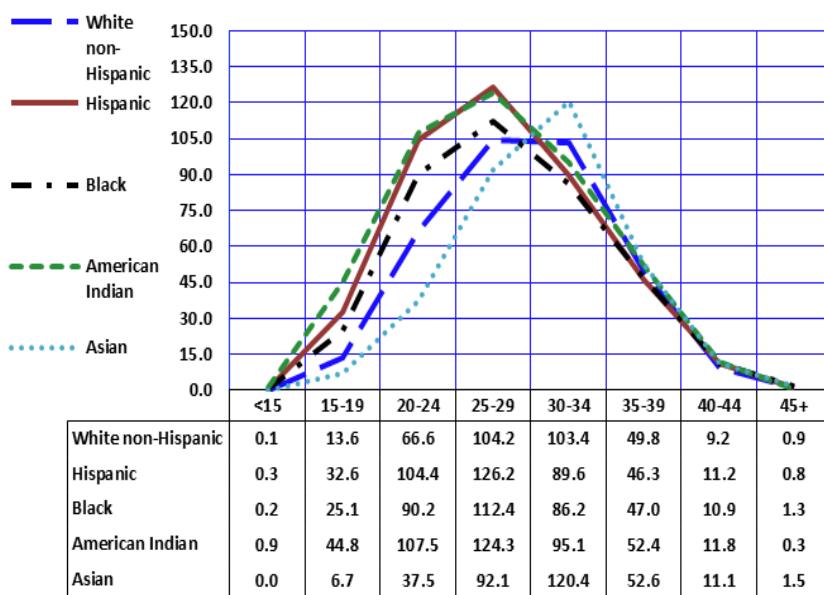
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-5
Birth Rates by Race/Ethnicity, Arizona, 2016



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, 2016



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

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

The birth rate for Arizona decreased slightly from 12.6 in 2015 to 12.3 in 2016.

In 2016 the crude birth rates by mother's race/ethnicity ranged from 9.7 births per 1,000 White non-Hispanics to 17.3 per 1,000 American Indians (**Figure 1B-5**).

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 2016, 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 34-39 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.

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

Figure 1B-7
Percent of Births to Unmarried Mothers by Age Group, Arizona, 2016

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 2016, 37,843 infants were born to unmarried mothers compared to 44,746 in 2006 (**Table 1B-26**). 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 80.8 percent, while in 2016, approximately 67 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**).

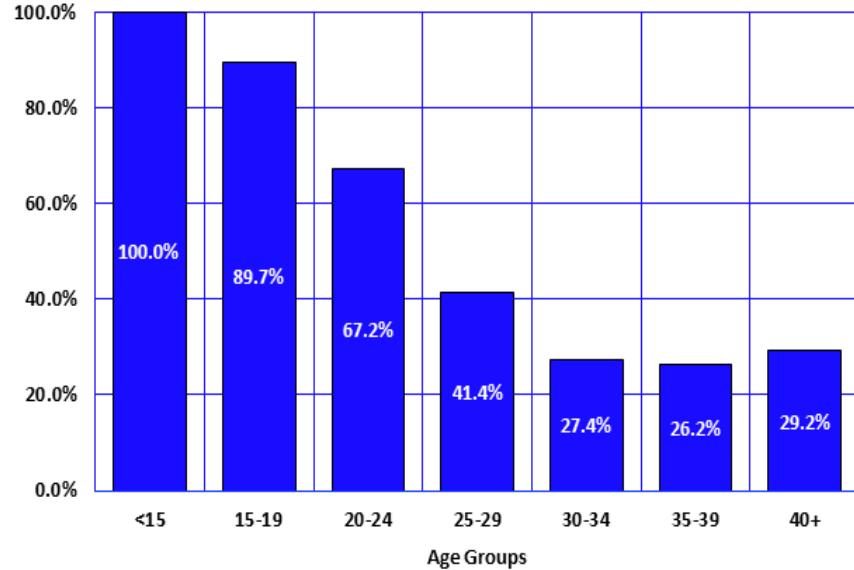
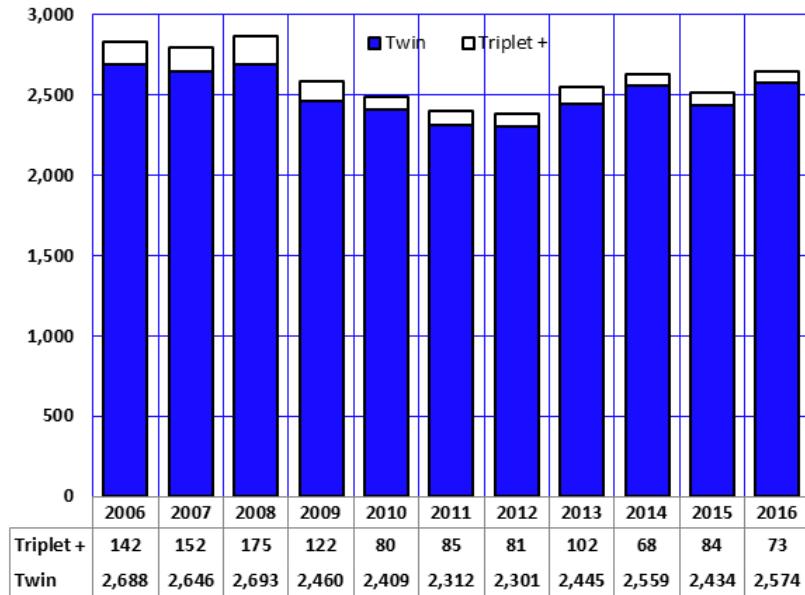


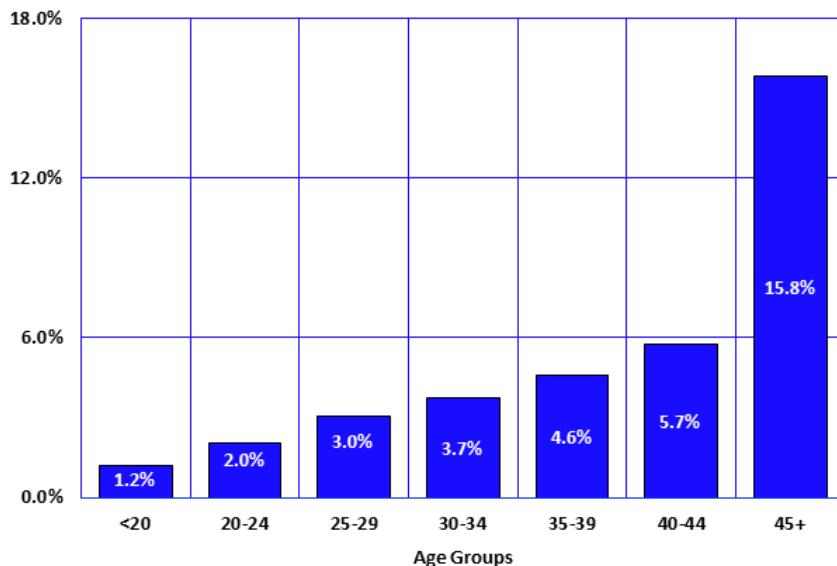
Figure 1B-8
Number of Births in Twin and Triplet+ Deliveries by Year,
Arizona, 2006-2016

The number of multiple birth events in Arizona declined from 2,868 in 2008, (the highest number ever recorded) to 2,647 in 2016 (**Figure 1B-8**). The number of babies born in twin deliveries decreased from 2,693 in 2008 to 2,574 in 2016 (**Figure 1B-8**). The number of triplets and higher order multiple birth events decreased by 58.3 percent from 175 in 2008 to 73 in 2016.



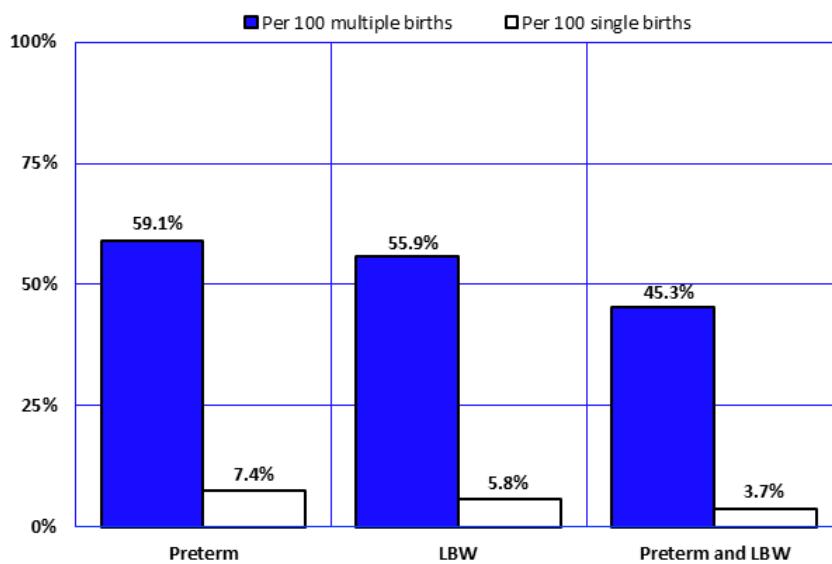
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-9
Multiple Births by Mother's Age Group, Arizona, 2016



In 2016, the proportion of multiple births gradually increased with maternal age among mothers below 45 years of age and sharply increased among mothers age 45 years and older. Among women aged 45 years and older, 15.8 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 12.4 percent in 2015 to 15.8 percent in 2016. 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, 2016



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 2016, infants born in multiple deliveries were 12.2 times more likely (45.3 vs. 3.7 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 58.9 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 48.6 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.

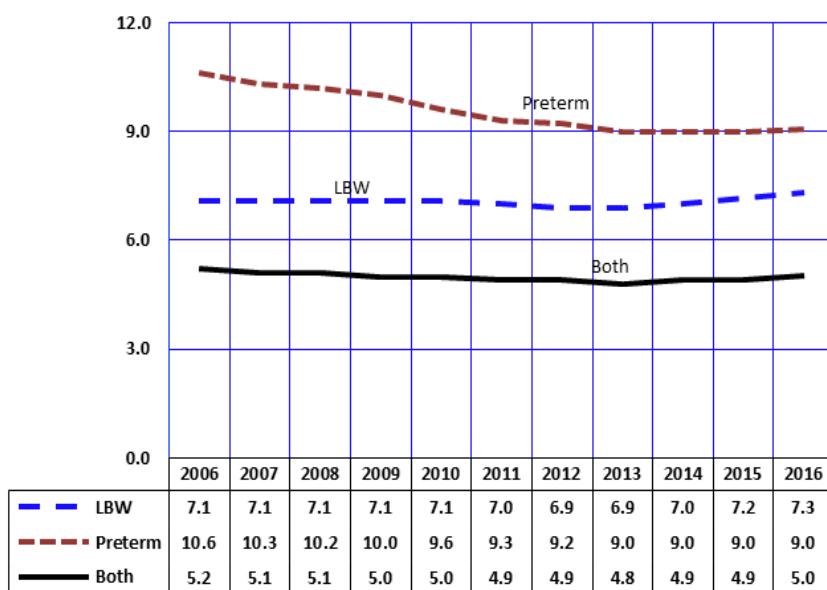
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

The proportion of preterm births remained unchanged at 9.0 percent of all births 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 4.9/100 births in 2015 to 5.0/100 births in 2016 (**Figure 1B-11**).

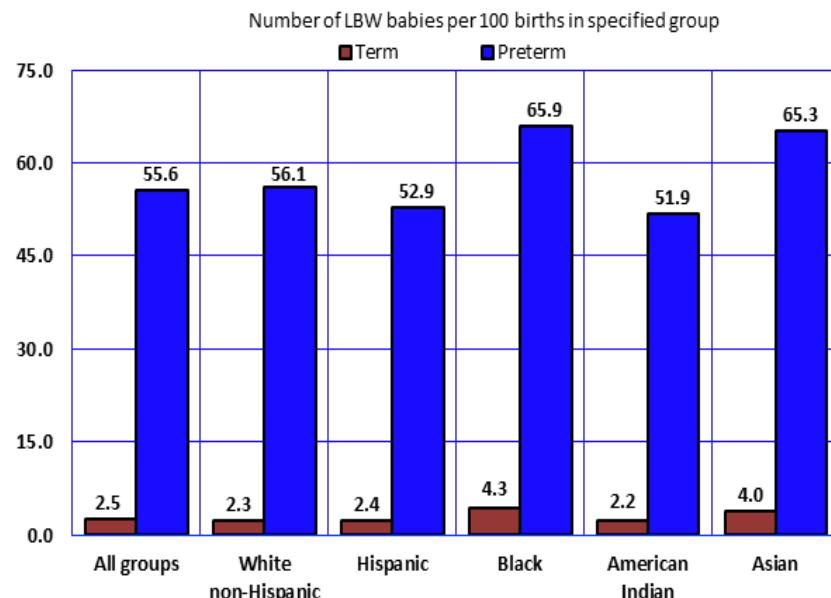
Detailed characteristics of births by birthweight and gestational age are provided in **Table 1B-32**. Comparative data by county of residence are available in **Table 5B-16 – Table 5B-24**.

Figure 1B-11
Preterm^a and Low Birthweight (LBW)^b Births by Year,
Arizona, 2006-2016



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.

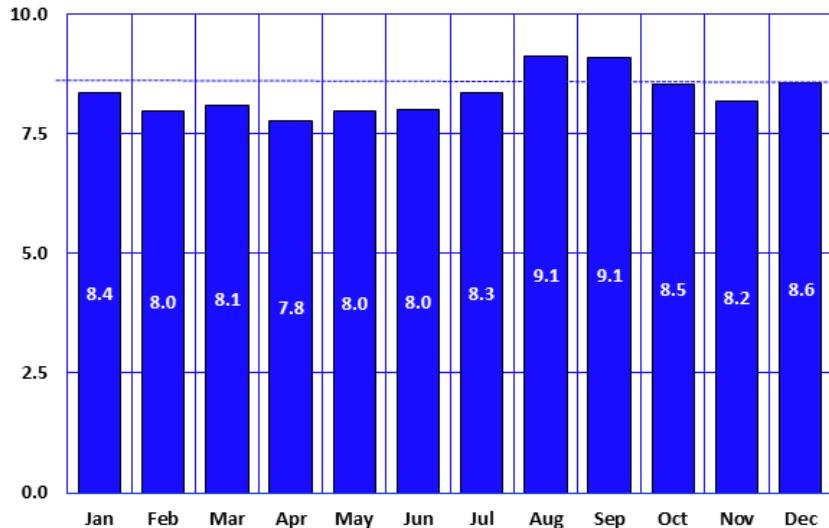
Figure 1B-12
Low-Birthweight (LBW) Births by Length of Gestation and Mother's Race/Ethnicity, Arizona, 2016



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

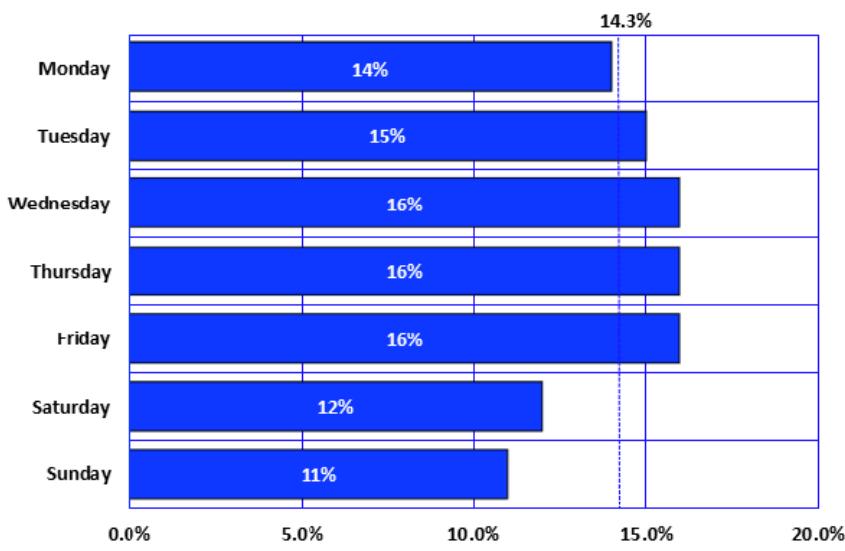
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-13
Percent of Resident Births by Month, Arizona, 2016



Historically, births in Arizona have peaked during August and September, with a monthly average around 8.3 percent. (**Figure 1B-13**). In 2016, the seasonal fluctuation of the frequency of births is marked by peak in August, September, and December.

Figure 1B-14
Percent of Resident Births by Day of the Week, Arizona, 2016



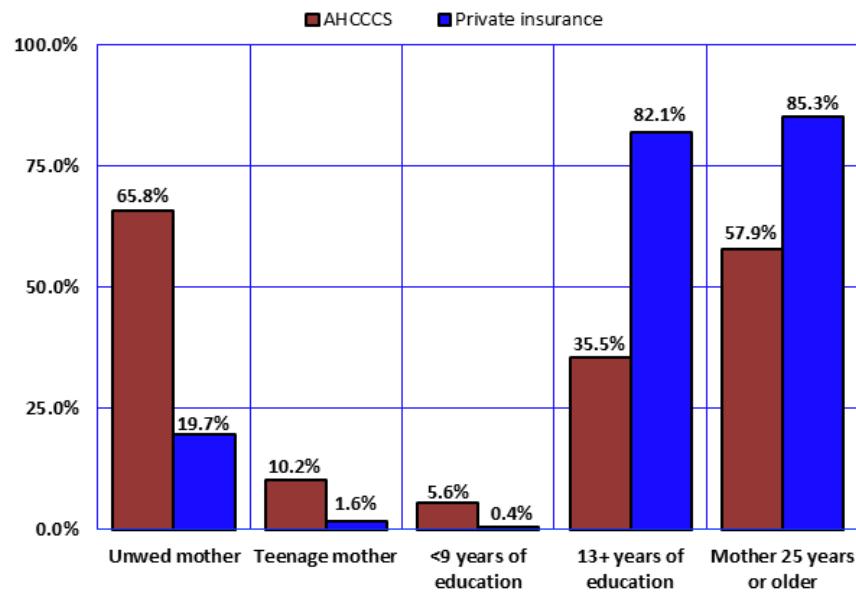
On average 231 infants were born per day in 2016 to Arizona residents. The daily average of resident live births in 2016 was substantially lower on weekends than on weekdays (**Figure 1B-14**). Many studies suggest that weekly, daily, and hourly variations observed in hospitals and clinics are not due 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 2016, only 8.0 percent of cesarean deliveries occurred on Sundays, compared to 16.3 percent on Mondays. The average rate of induction of labor was substantially lower on weekend days (11.1 percent) than it was on week days (15.6 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 (82.1 and 35.5 percent respectively, **Figure 1B-15**). Around 6 percent of AHCCCS mothers had 0-8 years of education, 14.8 times the proportion of PHI mothers. Only 19.7 percent of mothers with PHI were unmarried compared to 65.8 percent of AHCCCS mothers. Eight 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, 2016



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

Since 2002, the share of resident births paid for by AHCCCS has exceeded the share paid by private health insurance (**Figure 1B-16**). In 2006, private insurance funded 42.3 percent of births and AHCCCS paid for 52.1 percent of births. Compared to 2006, AHCCCS paid for 0.4 percent fewer births in 2016 and private insurance paid for 3.3 percent fewer births in 2016.

The share of AHCCCS funded births varied little from 2006 to 2016. The share of private health insurance also remained stable during this time period. In 2016, the payment source was the mothers themselves and/or their families (i.e. self-pay) in 4.8 percent of the deliveries. The Indian Health Service (IHS) paid for 1.4 percent of the births in 2015, a proportion that remained unchanged from last year (**Table 1B-25 and Table 1B-27**).

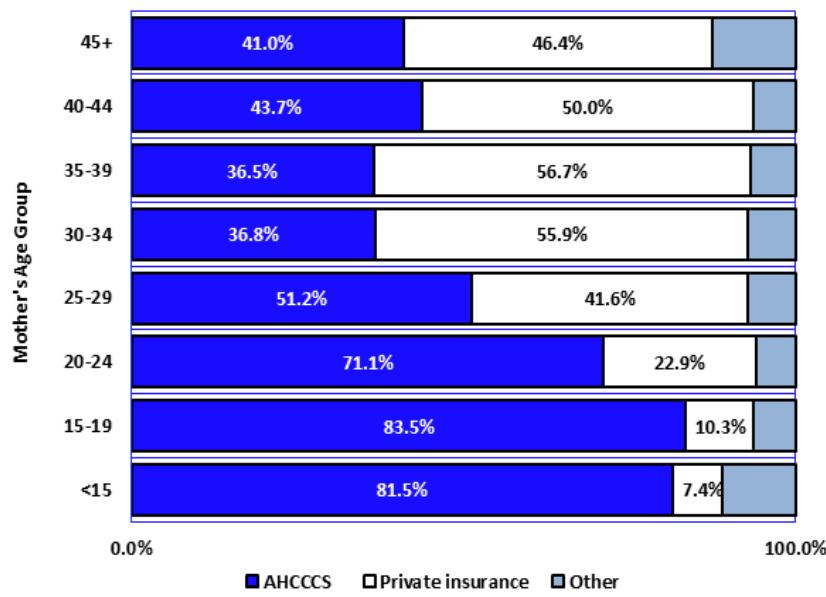
Figure 1B-16
Births by Payer and Year, Arizona, 2006-2016



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

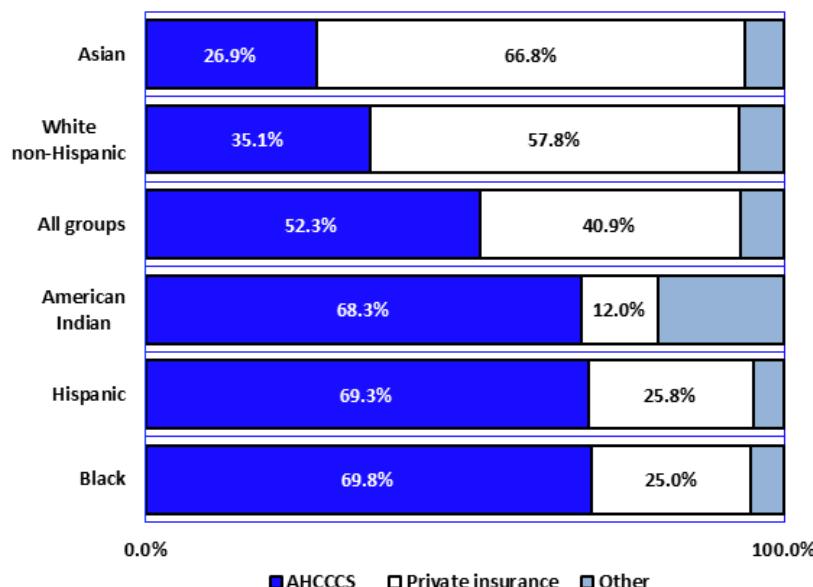
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-17
Payer for Delivery by Mother's Age Group, Arizona, 2016



Notes: 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, 2016



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

In 2016, 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 2016 (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 2016, the share of births paid for by AHCCCS more than doubled among mothers 20 years old or younger.

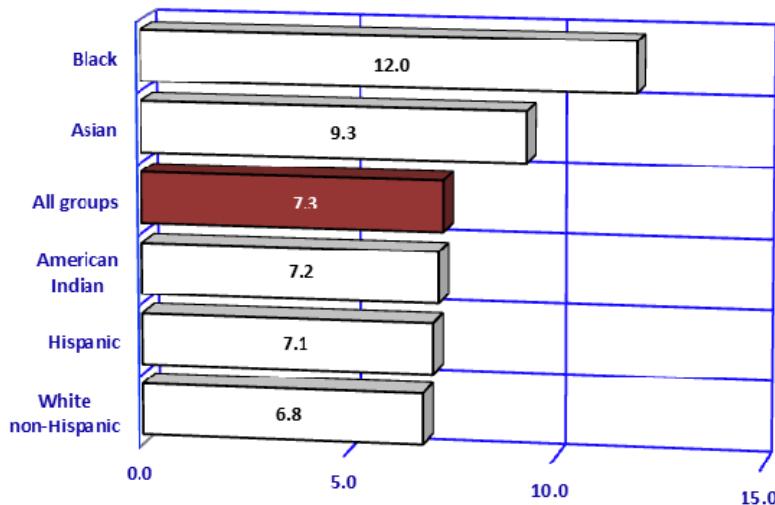
In 2016, private insurance was the largest payer for deliveries of Asian (66.8 percent) and White non-Hispanic infants (57.8 percent). In contrast, the Arizona Health Care Cost Containment System was the largest payer for deliveries of Black or African American (69.8 percent), Hispanic or Latino (69.3 percent), and American Indian women (68.3 percent).

The Indian Health Service as a payer accounted for 17.9 percent of deliveries of American Indian or Alaska Native infants in the State (**Figure 1B-18**, based on data in **Table 1B-27**).

Hispanics or Latinos accounted for 53.2 percent of the 44,146 deliveries paid for by AHCCCS. About 30 percent of all AHCCCS births were to White non-Hispanic women (based on data in **Table 1B-27**).

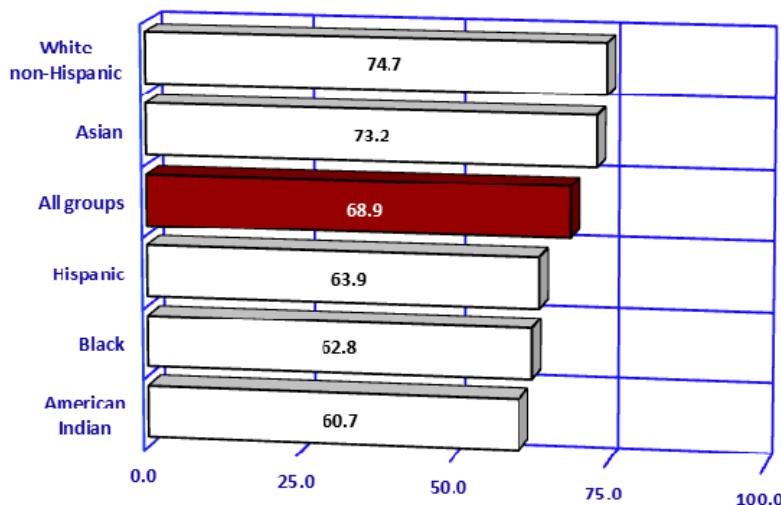
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-19
**Percent of Low Birthweight^a by Mother's Race/Ethnicity,
Arizona Residents, 2016**



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

Figure 1B-20
**First Trimester Prenatal Care by Mother's Race/Ethnicity,
Arizona Residents, 2016**

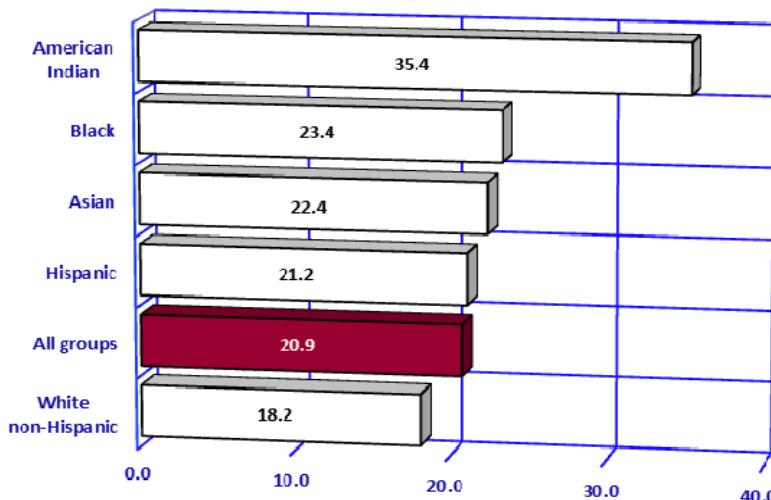


The percent of Arizona mothers giving birth who received early prenatal care (i.e., in the first trimester) has remained relatively stable from 2008 (79.4 percent) to 2013 (81.3 percent; **Table 1B-2**). In 2016, 68.9 percent of Arizona mothers initiated prenatal care during the first trimester. It should 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 2016 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**).

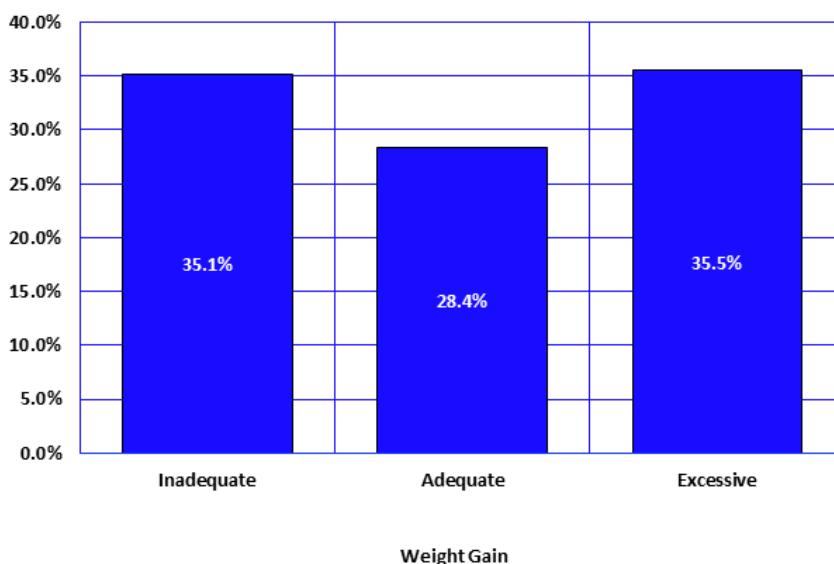
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-21
Maternal Medical Risk Factors^a by Mother's Race/Ethnicity, Arizona, 2016



Notes: ^a Births with medical risk factors reported per 100 births in specified group.

Figure 1B-22
Low-Birthweight by Maternal Weight Gain during Pregnancy, Arizona, 2016



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 2016, 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).

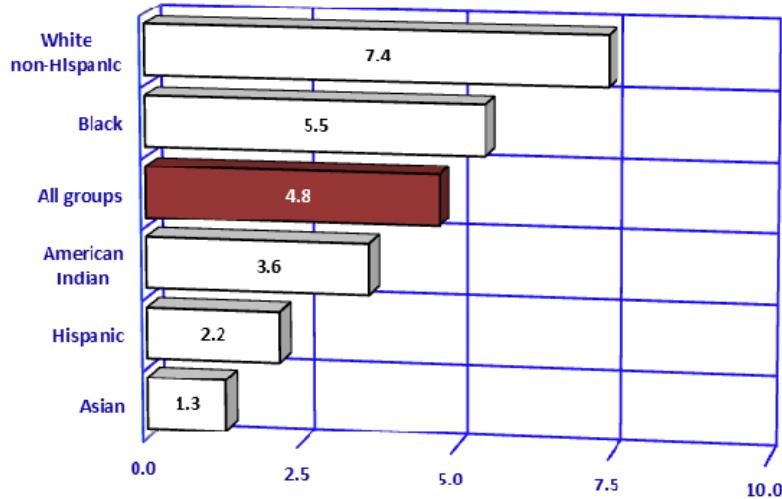
Maternal weight gain during pregnancy is a determinant of both fetal growth and birthweight. Insufficient or excessive weight gain during pregnancy can negatively influence outcomes of both mother and infant. Based on the Institute of Medicine guidelines, women who are of normal weight (body mass index 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 2016, 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, 2016**

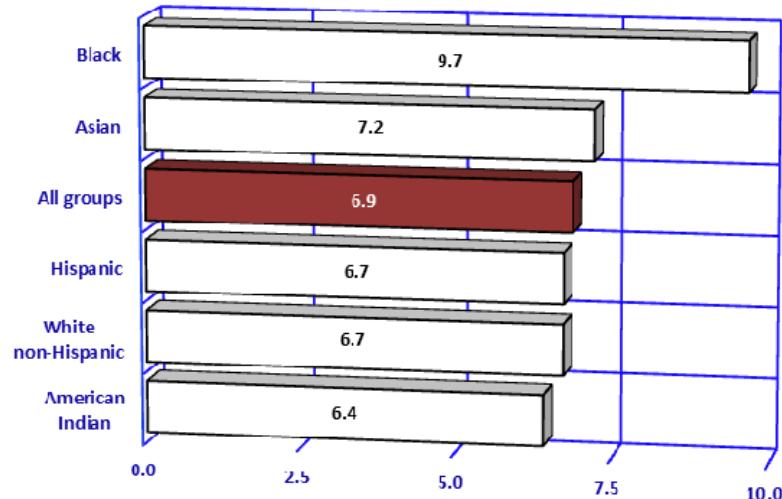
Cigarette smoking during pregnancy has been associated with reduced infant weight at birth, intrauterine growth retardation, and preterm births. Smoking during pregnancy was reported by 4.8 percent of women giving birth in 2016 (**Table 1B-25, Table 5B-30**), compared to 10.5 percent in 1989, when this 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**).



Notes: ^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, 2016**

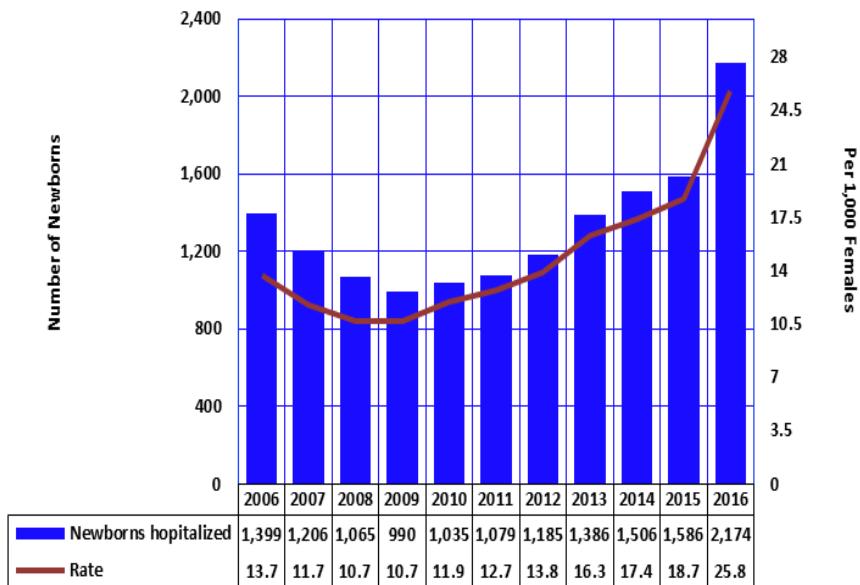
In 2016, 5,814, or 6.9 percent of newborns were admitted to newborn intensive care units (NICUs). Around 46.0 percent of the NICU admissions were low birthweight (LBW) babies. Prematurity, i.e., gestational age before 37 weeks captured more NICU admissions than did LBW, with 53.7 percent of NICU admissions being premature (based on data in **Table 1B-32**). The proportion of NICU admissions differed among racial/ethnic groups. In 2016 the rate of NICU admissions for Black or African American births was the highest among racial/ethnic groups (9.7 percent; **Table 1B-25**).



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

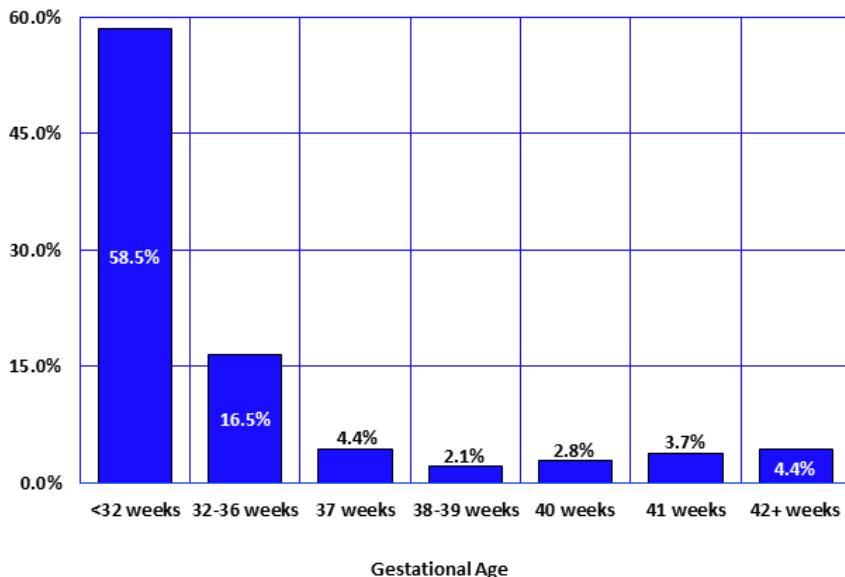
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-25
Newborns Who Were Hospitalized after Birth because They Were Affected by Maternal Use of Drugs during Pregnancy, Arizona, 2006-2016



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

Figure 1B-26
Abnormal Conditions of the Newborn by Gestational Age, Arizona, 2016



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 (2006-2009) 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 25.8/1,000 in 2016; the highest proportion recorded during this decade.

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, 2016

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 2015 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 199.7 cases of Down's Syndrome per 100,000 births to women 35 years or older was 5.6 times greater than the incidence rate of 35.8 for women aged 24 years or younger.

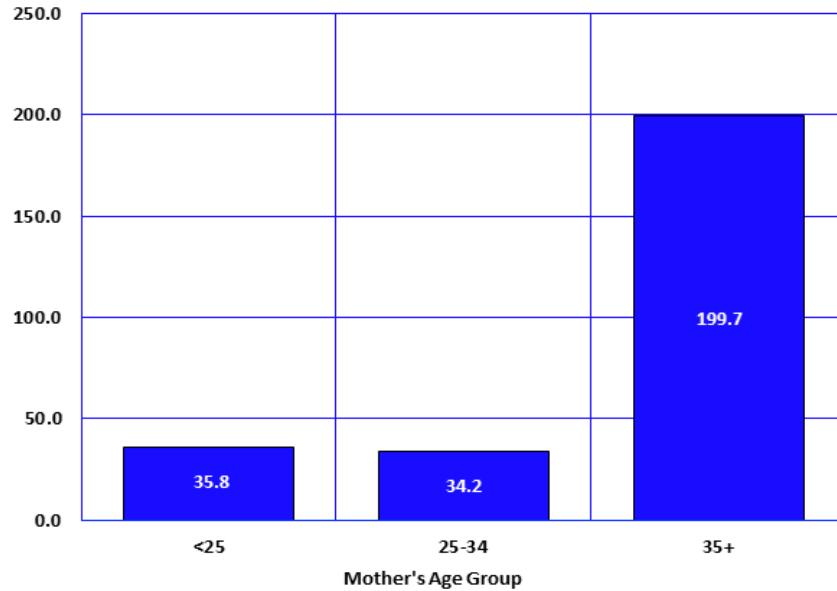


TABLE 1B-1
BIRTH RATE^a, GENERAL FERTILITY RATE^b, TOTAL FERTILITY RATE^c,
GROSS REPRODUCTION RATE, AND AGE-SPECIFIC BIRTH RATES^d BY YEAR,
ARIZONA AND UNITED STATES, 2006-2016

Year	Area	Birth rate	General fertility rate	Total fertility rate ^e	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
2006	AZ	16.4	80.0	2,392	1,167	0.8	59.6	131.8	132.5	95.6	48.5	9.3	0.3
	U.S.	14.2	68.5	2,101	NA	0.6	41.9	105.9	116.8	97.7	47.3	9.4	0.6
2007	AZ	16.0	78.9	2,364	1,154	0.8	59.5	132.2	124.7	98.6	46.8	9.5	0.7
	U.S.	14.3	69.5	2,122	NA	0.6	42.5	106.3	117.5	99.9	47.5	9.5	0.6
2008	AZ	15.2	74.8	2,236	1,093	0.7	54.9	122.2	119.5	94.2	46.2	9.0	0.6
	U.S.	14.0	68.6	2,084	NA	0.6	41.5	103.0	115.1	99.3	46.9	9.8	0.7
2009	AZ	14.0	68.9	2,058	1,006	0.6	49.1	110.4	110.7	88.6	42.5	8.9	0.8
	U.S.	13.5	66.7	2,007	NA	0.5	39.1	96.3	110.5	97.7	46.5	10.1	0.7
2010	AZ	13.6	68.9	2,058	1,011	0.5	41.6	104.3	116.1	94.4	44.4	9.7	0.7
	U.S.	13.0	64.1	1,931	NA	0.4	34.2	90.0	108.3	96.5	45.9	10.2	0.7
2011	AZ	13.2	67.0	2,001	976	0.5	36.9	101.4	112.3	94.0	44.2	10.3	0.2
	U.S.	12.7	63.2	1,894	NA	0.4	31.3	85.3	107.2	96.5	47.2	10.3	0.7
2012	AZ	13.2	67.2	2,018	984	0.3	35.4	100.1	116.4	94.6	459.0	10.3	0.6
	U.S.	12.6	63.0	1,881	NA	0.4	29.4	83.1	106.5	97.3	48.3	10.4	0.7
2013	AZ	12.9	66.0	1,981	963	0.3	31.3	96.7	118.4	93.0	46.4	9.8	0.1
	U.S.	12.5	62.5	1,870	NA	0.3	26.6	81.2	106.2	98.7	49.6	10.5	0.8
2014	AZ	13.0	66.7	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

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 2016 TFR of 1,895 can be interpreted at the individual level as the average number of children a female resident would have by age 50 ($1,895/1000 = 2$ live births) if she were subject throughout her life to the age-specific birth rates observed in 2016.

^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 2006-2016.

^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.

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, 2006-2016**
(ALL RACE/ETHNIC GROUPS)

Characteristic	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Number of births	102,042	102,687	99,215	92,616	87,053	85,190	85,725	84,963	86,648	85,024	84,404
Age of mother											
≤19 years	12.7	12.6	12.3	11.8	10.8	9.9	9.5	8.5	7.6	6.9	6.4
≥30 years	31.6	32.3	33.1	33.8	35.0	36.1	36.7	37.2	38.8	39.3	40.2
Marital status											
Unmarried	43.9	45.0	45.1	45.2	44.7	44.3	45.2	45.1	44.7	45.3	44.8
Mother's education											
<9 years	8.2	7.8	6.9	6.1	5.3	4.6	4.3	3.8	3.7	3.5	3.2
Mother's race/ethnicity											
White ^b	42.2	41.1	42.3	43.0	44.5	45.0	45.1	45.0	46.3	44.9	44.7
Hispanic	44.0	44.5	43.0	41.4	39.4	38.0	38.7	38.9	38.9	40.3	40.1
Black	3.8	4.1	4.3	4.7	5.0	5.1	5.5	5.6	5.2	5.1	5.2
American Indian	6.2	6.2	6.4	6.7	6.7	6.8	6.5	6.4	5.9	5.9	6.0
Asian or Pacific Islander	3.9	4.0	4.1	4.2	4.4	5.0	4.2	4.1	3.7	3.8	4.0
Prenatal care begin											
1 st Trimester	77.7	77.6	79.4	80.3	81.9	81.7	82.6	81.3	66.0	67.9	68.9
3 rd Trimester	3.7	3.7	3.6	3.4	3.2	3.1	3.2	3.6	5.3	5.5	5.8
No Care	2.4	2.2	1.8	1.8	1.6	1.6	1.2	1.4	2.1	2.2	2.4
Prenatal visits											
1-4	4.0	3.9	3.6	3.5	3.3	3.4	3.6	3.8	4.4	4.4	4.6
≥5	93.5	93.9	94.5	94.5	94.9	94.5	94.9	94.7	92.1	92.2	91.5
≥9	76.4	76.7	77.8	78.9	80.5	80.6	81.3	81.2	77.6	77.0	76.0
≥13	27.5	29.4	29.9	30.0	31.6	33.7	34.6	34.8	30.7	30.4	29.9
Medical risk/ Complications^c											
Gestational age^d	44.3	45.3	46.5	48.1	49.7	46.3	52.4	55.5	34.5	39.0	40.7
Preterm (<37 weeks)	10.6	10.3	10.2	10.0	9.6	9.3	9.2	9.0	9.0	9.0	9.0
Birth weight											
<2,500 grams	7.1	7.1	7.1	7.1	7.1	7.0	6.9	6.9	7.0	7.2	7.3
<1,500 grams	1.2	1.2	1.2	1.2	1.1	1.2	1.2	1.1	1.2	1.1	1.2
Child's sex											
Male	51.2	51.2	51.1	51.1	50.9	51.2	51.2	51.4	51.3	51.3	50.9
Female	48.8	48.8	48.9	48.9	49.1	48.8	48.8	48.6	48.7	48.7	49.1
Plurality											
Multiple births	2.8	2.7	2.9	2.8	2.9	2.8	2.8	3.0	3.0	3.0	3.1
Caesarean delivery											
Place of delivery	26.0	26.6	27.5	27.7	27.6	27.9	27.6	27.8	27.7	27.5	27.5
Hospital ^e	98.9	99.0	99.0	98.8	98.8	98.5	98.6	98.7	98.5	98.5	98.3
Attendant at birth											
Midwife ^f	5.6	5.7	6.1	6.5	6.6	6.4	7.2	7.4	10.2	11.8	12.8
Previous live births											
1 or more	62.5	63.1	63.3	63.1	63.0	62.6	62.7	63.6	64.0	64.3	64.8

Notes: ^aRates 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, 2006-2016**
(ALL RACE/ETHNIC GROUPS)

Characteristic	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Number of births	7,266	7,285	7,026	6,573	6,155	5,949	5,946	5,849	6,069	6,093	6,186
Age of mother											
≤19 years	14.5	14.2	13.2	13.1	12.3	11.6	10.7	8.9	7.8	7.8	7.0
≥30 years	34.3	34.7	35.8	37.4	37.8	37.9	39.4	37.9	40.9	42.0	42.4
Marital status											
Unmarried	48.3	49.2	48.6	48.5	49.4	50.0	51.4	51.3	49.1	47.5	48.2
Mother's education											
<9 years	7.8	7.7	6.3	5.7	4.7	4.5	4.5	4.2	3.8	3.5	3.7
Mother's race/ethnicity											
White ^b	39.8	40.9	41.0	41.5	41.9	43.5	42.1	42.0	44.7	41.7	41.8
Hispanic	42.3	41.5	40.8	38.7	38.1	34.9	37.9	37.6	37.0	38.8	38.8
Black	6.7	7.3	7.2	8.5	8.0	9.2	9.3	8.9	8.8	8.8	8.5
American Indian	6.5	5.8	6.1	6.0	6.6	6.8	6.3	6.7	5.2	6.0	5.9
Asian or Pacific Islander	4.7	4.5	5.0	5.2	5.4	5.7	4.4	4.7	4.2	4.8	5.1
Prenatal care began											
1st Trimester	77.2	77.4	79.5	80.6	81.0	81.2	80.0	78.9	63.6	65.0	66.0
3rd Trimester	2.8	3.1	2.9	2.6	2.7	2.3	2.7	3.4	4.1	3.9	4.5
No Care	4.9	4.5	3.8	3.6	3.2	3.2	2.9	2.9	4.8	5.2	5.0
Prenatal visits											
1-4	8.5	8.2	7.7	7.6	7.5	7.3	8.6	8.2	8.6	9.4	9.5
≥5	86.3	87.1	88.2	88.3	88.8	88.5	87.9	88.5	84.8	83.1	82.6
≥9	60.1	61.2	63.0	64.1	65.2	65.0	65.5	66.4	60.4	58.1	57.4
≥13	21.9	25.1	25.6	25.7	27.1	28.5	26.7	27.7	22.1	20.2	20.1
Medical risks/ Complications^c											
Gestational age^d	65.1	65.9	68.7	70.5	73.3	69.2	73.2	72.5	58.9	60.0	62.0
Preterm (<37 weeks)	72.7	72.3	71.7	71.2	70.2	70.1	71.2	70.2	69.4	68.8	68.7
Birth weight											
<1,500 grams	16.9	16.8	16.5	16.7	15.3	16.8	16.6	15.8	16.8	16.0	16.3
<1,000 grams	7.7	8.1	7.7	8.0	7.1	8.3	8.1	7.4	8.4	7.4	8.0
Child's sex											
Male	47.5	47.9	48.1	47.8	46.5	46.8	48.7	49.3	47.7	47.4	48.0
Female	52.5	52.1	51.9	52.2	53.5	53.2	51.3	50.7	52.3	52.6	52.0
Plurality											
Multiple births	22.5	23.1	23.3	22.1	23.1	22.8	23.0	24.4	23.7	22.5	23.9
Caesarean delivery											
Hospital ^e	43.2	44.2	46.7	46.4	46.5	46.8	47.7	47.6	47.4	48.6	48.4
Attendant at birth											
Midwife ^f	1.9	2.5	2.6	2.3	2.6	2.3	2.5	2.7	9.5	10.5	11.0
Previous live births											
1 or more	59.6	60.5	60.5	59.7	60.3	59.6	61.4	60.5	61.4	60.9	61.0

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-4
**ALL LIVE BIRTHS AND LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED
 MATERNAL, PRENATAL CARE, DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY,
 CHILD'S SEX, BIRTH ORDER, AND BIRTH COMPLICATIONS^a, ARIZONA, 2006-2016
 (URBAN REGIONS)^b**

Characteristic		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Number of births		87,910	88,266	85,263	79,046	74,624	73,040	74,128	73,493	74,677	73,547	72,899
Age of mother	≤19 years	12.3	12.1	11.7	11.2	10.3	9.4	9.0	8.2	7.3	6.6	6.1
	≥30 years	32.5	33.3	34.1	35.1	36.2	37.4	37.9	38.4	40.0	40.6	41.2
Marital status	Unmarried	43.0	44.3	44.1	44.2	43.6	43.2	44.1	44.1	43.6	44.1	43.7
Mother's education	<9 years	8.8	8.3	7.4	6.5	5.6	4.9	4.7	4.0	3.9	3.7	3.5
Mother's race/ethnicity	White ^c	41.5	40.2	41.5	42.1	44.1	45.0	44.6	44.3	45.7	44.5	44.0
	Hispanic	46.7	47.5	45.8	44.4	42.0	40.5	40.9	41.3	41.3	42.5	42.5
	Black	4.2	4.5	4.8	5.3	5.6	5.7	6.1	6.2	5.9	5.8	5.9
	American Indian	3.5	3.5	3.5	3.6	3.6	3.7	3.7	3.7	3.1	3.1	3.2
	Asian or Pacific Islander	4.1	4.3	4.3	4.6	4.7	5.0	4.7	4.5	4.0	4.2	4.4
Prenatal care began	1st Trimester	78.4	78.2	80.4	81.5	83.1	82.5	83.4	82.1	66.6	68.3	69.4
	3rd Trimester	3.5	3.5	3.3	3.0	2.9	2.9	3.1	3.5	5.2	5.3	5.6
	No care	2.4	2.2	1.7	1.9	1.6	1.6	1.2	1.3	2.1	2.1	2.3
Prenatal visits	1-4	3.7	3.5	3.1	3.0	2.9	3.0	3.2	3.5	4.0	4.1	4.3
	≥5	93.7	94.2	95.1	94.9	95.4	94.8	95.3	95.1	92.4	92.6	91.9
	≥9	77.2	77.5	79.1	80.1	81.9	81.8	82.4	82.3	78.7	78.2	77.1
	≥13	27.5	29.6	30.1	30.6	32.1	34.1	35.1	35.3	31.1	31.0	30.1
Medical risks/complications^d		42.8	44.4	46.3	48.6	50.1	47.2	52.5	56.1	34.5	39.4	41.4
Gestational age^e	Preterm (<37 weeks)	10.7	10.3	10.1	9.7	9.4	9.2	9.1	9.1	9.0	9.0	9.0
Birth weight	<2,500 grams	7.0	7.0	7.0	7.0	6.9	6.9	6.8	7.0	7.1	7.2	7.2
	<1,500 grams	1.2	1.2	1.2	1.1	1.2	1.2	1.1	1.2	1.1	1.1	1.2
Child's sex	Male	51.2	51.3	51.0	51.3	50.8	51.2	51.2	51.4	51.3	51.3	51.0
	Female	48.8	48.7	49.0	48.7	49.2	48.8	48.8	48.6	48.7	48.7	49.0
Plurality	Multiple births	2.8	2.8	3.0	2.8	3.0	2.9	2.9	3.1	3.1	3.0	3.2
Caesarean delivery		26.0	26.8	27.8	28.1	28.0	28.3	27.9	28.1	28.1	27.9	27.7
Place of delivery	Hospital ^f	99.2	99.3	99.3	99.1	99.0	98.8	98.7	98.7	98.7	98.6	98.4
Attendant at birth	Midwife ^g	4.5	4.6	5.1	5.5	5.4	5.2	6.3	6.3	10.1	12.1	13.0
Previous live births	1 or more	62.3	62.9	63.1	62.9	62.8	62.4	62.6	63.4	63.7	64.0	64.6
Number of LBW births		6,175	6,205	5,974	5,548	5,238	5,065	5,096	5,013	5,232	5,199	5,270
Age of mother	≤19 years	14.3	13.7	12.6	12.7	12.1	10.9	10.2	8.8	7.3	7.4	6.3
	≥30 years	35.3	35.9	37.0	38.5	38.8	39.3	40.4	39.3	42.0	43.6	44.2
Marital status	Unmarried	47.2	48.6	47.4	48.1	48.4	49.0	50.1	50.8	48.3	49.5	47.1
Mother's education	<9 years	8.2	8.2	6.7	5.8	5.2	4.9	4.7	4.3	4.0	3.6	3.9
Mother's race/ethnicity	White ^c	39.1	39.6	39.8	40.5	41.1	42.8	41.1	40.9	43.3	40.4	41.1
	Hispanic	44.6	44.2	43.6	40.9	40.5	37.2	40.2	39.8	39.4	41.3	40.8
	Black	7.6	8.3	8.0	9.8	9.1	10.3	10.4	10.2	9.9	10.0	9.7
	American Indian	3.8	3.1	3.2	3.0	3.5	3.4	3.3	4.0	2.7	3.0	2.8
	Asian or Pacific Islander	4.9	4.8	5.5	5.7	5.7	6.3	4.9	5.1	4.6	5.3	5.7
Prenatal care began	1st Trimester	78.1	77.6	80.2	81.3	82.1	81.9	80.5	79.8	63.8	66.0	66.8
	3rd Trimester	2.6	2.9	2.6	2.2	2.4	2.0	2.6	3.3	4.1	3.8	4.3
	No care	4.9	4.5	3.9	3.8	3.0	3.0	2.8	2.7	4.9	4.8	4.3
Prenatal visits	1-4	8.4	8.1	7.3	7.2	7.1	7.0	7.8	7.8	8.4	8.9	8.6
	≥5	86.5	87.3	88.6	88.7	89.5	88.8	88.9	89.1	84.8	84.1	84.0
	≥9	60.6	61.7	63.7	65.0	66.6	65.8	66.5	67.7	60.8	59.6	58.6
	≥13	22.4	25.6	25.7	26.3	28.1	29.1	27.3	28.4	22.6	20.6	20.6
Medical risks/complications^d		64.4	66.0	69.6	71.8	74.6	70.8	74.2	73.7	59.0	60.0	61.7
Gestational age^e	Preterm (<37 weeks)	73.5	72.9	72.7	72.2	70.6	71.2	71.3	70.8	70.7	69.5	69.5
Birth weight	<1,500 grams	17.1	17.1	16.8	17.2	15.3	17.4	16.9	15.9	17.0	16.0	16.6
	<1,000 grams	8.0	8.3	8.0	8.3	7.3	8.7	8.4	7.6	8.6	7.7	8.2
Child's sex	Male	47.1	48.2	47.9	48.0	45.9	47.0	48.6	49.2	48.1	47.8	48.3
	Female	52.9	51.8	52.1	52.0	54.1	53.0	51.4	50.8	51.9	52.2	51.7
Plurality	Multiple births	23.2	24.4	23.9	22.8	24.0	23.3	23.9	25.2	24.3	23.4	24.6
Caesarean delivery		43.4	45.1	47.4	47.2	47.0	47.7	48.7	48.0	48.3	49.2	48.8
Place of delivery	Hospital ^f	99.8	99.7	99.8	99.8	99.7	99.5	99.8	99.8	99.7	99.6	99.6
Attendant at birth	Midwife ^g	1.4	1.9	2.2	1.9	2.1	1.6	2.0	2.2	9.5	10.6	11.0
Previous live births	1 or more	58.9	60.1	59.8	59.7	59.3	59.2	61.2	60.0	61.4	60.6	61.0

Notes: ^a Rates per 100 births.

^b Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural 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-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, 2006-2016
 (RURAL REGIONS)^b**

Characteristic	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Number of births	14,083	14,413	13,952	13,570	12,429	12,150	11,597	11,470	11,955	11,467	11,502
Age of mother											
≤19 years	14.9	15.8	15.4	15.4	13.9	12.7	12.2	10.6	9.8	9.0	8.5
≥30 years	26.6	26.2	26.8	26.7	27.9	28.2	29.3	29.4	31.3	30.9	33.4
Marital status	Unmarried	49.2	49.4	51.1	50.7	51.2	51.0	52.4	52.0	51.7	53.0
Mother's education	<9 years	4.9	4.5	4.0	4.0	3.1	2.5	2.2	2.4	2.3	1.9
Mother's race/ethnicity	White ^c	46.5	46.6	46.7	48.1	47.2	47.9	48.7	49.1	49.8	47.7
Hispanic	26.7	26.6	25.7	24.3	24.4	23.0	24.1	24.0	24.2	26.4	25.3
Black	1.1	1.1	1.3	1.2	1.2	1.4	1.5	1.3	0.9	0.9	1.0
American Indian	23.5	23.2	24.4	24.4	25.0	25.7	24.2	24.0	23.5	23.6	23.2
Asian or Pacific Islander	2.2	2.6	2.0	2.1	2.2	2.0	1.5	1.7	1.5	1.4	1.2
Prenatal care began	1st Trimester	73.5	73.7	72.7	73.3	74.8	77.1	77.7	76.3	62.5	64.8
3rd Trimester	4.9	4.8	5.2	5.5	5.3	4.1	4.3	4.1	6.3	6.7	7.3
No care	1.9	1.9	1.9	1.5	1.8	1.5	1.5	2.2	1.9	3.0	3.0
Prenatal visits	1-4	6.2	6.0	6.8	6.1	5.9	5.7	5.7	6.6	6.2	7.0
≥5	91.7	91.9	91.1	92.0	91.8	92.3	92.4	92.0	90.5	89.9	89.1
≥9	71.1	71.4	69.7	71.5	71.9	73.3	73.9	73.8	71.1	69.5	69.1
≥13	27.6	27.9	28.8	26.5	28.7	31.2	31.0	31.7	28.3	26.7	28.4
Medical risks/complications^d	53.5	50.7	48.2	45.1	47.9	41.1	52.0	51.8	34.1	36.7	37.8
Gestational age^e	Preterm (<37 weeks)	10.0	10.0	9.7	9.7	9.4	8.8	9.1	8.7	8.3	9.1
Birth weight	<2,500 grams	7.7	7.5	7.5	7.6	7.4	7.3	7.3	7.0	7.8	8.0
	<1,500 grams	1.2	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.2	1.2
Child's sex	Male	51.0	50.0	51.3	50.3	51.4	51.3	51.2	51.3	51.1	51.0
	Female	49.0	50.0	48.7	49.7	48.6	48.7	48.8	48.7	48.9	49.0
Plurality	Multiple births	2.4	2.2	2.4	2.5	2.3	2.6	2.2	2.4	2.5	2.9
Caesarean delivery		25.8	25.3	26.0	25.4	25.2	25.8	25.7	25.8	25.2	26.2
Place of delivery	Hospital ^f	97.2	97.3	97.1	96.9	97.2	97.0	98.0	98.2	97.7	97.6
Attendant at birth	Midwife ^g	12.4	12.5	12.7	12.6	13.4	14.0	13.4	14.2	10.7	11.3
Previous live births	1 or more	64.3	64.5	64.4	64.3	64.3	63.8	63.3	64.8	66.0	65.8
Number of LBW births		1,080	1,080	1,052	1,025	917	884	850	836	835	891
Age of mother	≤19 years	16.0	17.2	16.4	15.1	13.1	15.5	13.9	9.7	11.3	10.6
	≥30 years	28.8	28.1	29.4	31.1	31.7	30.1	32.8	29.9	34.5	32.8
Marital status	Unmarried	54.9	53.1	55.2	50.6	55.2	55.7	59.1	54.2	53.9	57.1
Mother's education	<9 years	5.4	4.8	3.9	4.9	2.3	2.3	3.1	3.0	2.3	2.3
Mother's race/ethnicity	White ^c	43.5	48.0	47.6	46.8	46.6	47.3	48.1	49.2	53.5	49.2
Hispanic	29.5	25.8	24.9	26.9	24.1	21.6	24.2	24.4	22.0	24.2	27.4
Black	1.8	1.8	2.6	1.3	1.4	2.6	2.2	1.4	2.2	1.5	1.6
American Indian	21.9	21.4	22.7	22.2	24.1	26.2	24.0	22.8	20.7	23.2	23.5
Asian or Pacific Islander	3.3	3.1	2.2	2.8	3.8	2.3	1.4	2.2	1.6	1.9	1.5
Prenatal care began	1st Trimester	72.0	76.0	75.7	76.7	74.3	77.3	76.5	74.0	62.5	59.5
	3rd Trimester	4.3	4.2	4.1	4.4	4.0	3.5	3.4	4.2	4.0	5.1
No care	5.2	4.5	3.5	2.6	4.4	4.0	3.8	4.1	4.0	7.3	8.7
Prenatal visits	1-4	9.4	9.4	10.2	9.8	9.5	8.7	13.1	10.3	9.7	12.2
	≥5	84.9	85.9	85.8	86.4	85.1	86.2	82.0	84.7	84.9	77.6
	≥9	56.8	58.1	59.0	59.2	57.4	60.4	59.2	58.9	58.2	49.5
	≥13	19.3	22.0	24.9	22.6	21.3	25.2	22.9	23.3	19.2	17.8
Medical risks/complications^d	69.2	65.1	63.9	63.6	66.1	60.2	67.4	65.4	58.0	59.9	63.9
Gestational age^e	Preterm (<37 weeks)	68.0	68.9	65.9	65.7	67.8	64.0	70.5	66.6	61.0	65.2
Birth weight	<1,500 grams	15.7	15.3	14.5	14.4	15.3	13.5	14.5	15.7	15.3	14.7
	<1,000 grams	6.2	7.1	5.7	5.9	6.3	6.0	6.2	6.3	7.1	5.7
Child's sex	Male	49.8	46.1	49.1	47.0	50.2	45.9	49.2	50.0	45.0	44.6
	Female	50.2	53.9	50.8	53.0	49.8	54.1	50.8	50.0	55.0	53.6
Plurality	Multiple births	18.2	15.9	19.8	18.4	17.9	20.5	17.9	19.5	20.2	17.5
Caesarean delivery		41.6	39.2	42.7	42.0	43.2	41.4	41.8	45.5	42.3	45.2
Place of delivery	Hospital ^f	99.4	99.3	99.1	99.4	99.2	98.5	98.9	99.2	99.0	98.4
Attendant at birth	Midwife ^g	5.3	5.6	5.1	4.6	5.3	6.3	5.2	5.7	9.2	10.7
Previous live births	1 or more	63.1	62.2	64.6	59.8	65.6	62.2	62.4	63.3	61.1	61.0

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, 2006-2016
(WHITE NON-HISPANIC MOTHERS)

Characteristic	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Number of births	43,013	42,216	41,925	39,781	38,777	38,294	38,670	38,220	40,097	38,180	37,762
Age of mother											
≤19 Years	7.5	7.3	7.1	6.8	6.2	5.5	5.1	4.7	4.4	4.0	3.6
≥30 Years	37.9	38.5	38.7	39.3	40.4	41.5	42.9	43.2	45.1	45.6	47.0
Marital status											
Unmarried	27.7	28.4	29.5	29.7	29.9	29.5	30.4	30.3	31.1	31.5	31.3
Mother's education											
<9 years	1.2	1.2	1.1	1.2	1.1	1.2	1.0	0.8	0.7	0.8	0.6
Prenatal care began											
1st Trimester	86.9	86.5	87.3	87.9	88.2	88.0	88.4	87.4	71.7	73.2	74.7
3rd Trimester	2.0	2.1	1.9	1.9	2.1	1.8	1.8	2.0	3.5	3.7	3.9
No Care	0.9	0.9	0.7	0.7	0.6	0.6	0.6	0.7	1.1	1.3	1.4
Prenatal visits											
1-4	2.0	2.1	2.0	1.8	1.7	1.7	2.0	2.1	2.6	2.7	2.8
≥5	96.9	97.0	97.2	97.3	97.5	97.1	97.1	97.1	94.8	94.5	94.0
≥9	84.9	84.6	85.0	86.4	87.6	86.9	87.3	87.2	83.7	83.2	82.2
≥13	32.4	34.6	34.8	35.0	37.4	39.7	41.2	41.9	36.6	36.2	35.5
Medical risks/ Complications^b											
Gestational Age^c	45.4	47.5	47.7	48.1	49.5	46.1	50.6	55.1	32.8	35.4	37.9
Preterm (<37 weeks)	10.5	10.4	10.1	9.9	9.2	9.1	8.7	8.4	8.6	8.6	8.5
Birth weight											
<2,500 grams	6.7	7.1	6.9	6.9	6.7	6.7	6.5	6.4	6.8	6.6	6.8
<1,500 grams	1.1	1.1	1.1	1.1	0.9	1.1	1.0	1.0	1.1	1.0	1.1
Child's sex											
Male	51.3	50.8	51.1	51.2	51.4	51.1	51.3	51.3	51.3	51.6	50.9
Female	48.7	49.2	48.9	48.8	48.6	48.9	48.7	48.7	48.7	48.4	49.1
Plurality											
Multiple births	3.2	3.5	3.6	3.4	3.5	3.5	3.4	3.6	3.7	3.4	3.8
Caesarean delivery											
Place of delivery	27.9	28.6	29.5	29.5	29.1	29.4	28.7	28.4	28.8	28.1	28.0
Hospital ^d	97.9	97.9	97.9	97.6	97.7	97.4	97.4	97.6	97.4	97.2	96.9
Attendant at birth											
Midwife ^e	3.8	3.6	4.0	4.5	4.8	4.9	6.0	6.5	12.6	14.1	15.1
Previous live births											
1 or more	58.9	59.7	59.5	59.4	59.6	59.2	59.6	60.5	60.9	61.5	62.2

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

^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, 2006-2016**
(WHITE NON-HISPANIC MOTHERS)

Characteristic	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Number of LBW births	2,891	2,978	2,878	2,727	2,579	2,586	2,505	2,459	2,715	2,538	2,585
Age of mother											
≤19 years	8.6	8.8	7.6	8.7	7.1	6.8	6.5	5.2	4.8	5.5	4.3
≥30 years	41.8	40.9	41.8	43.2	43.6	44.8	45.5	42.5	47.5	47.8	49.5
Marital status											
Unmarried	33.0	34.6	34.1	33.5	34.7	36.2	37.2	36.9	37.9	39.9	35.8
Mother's education											
<9 years	1.8	1.6	1.4	1.1	1.1	1.5	1.4	1.6	1.1	0.9	0.8
Prenatal care began											
1st Trimester	85.6	86.2	86.5	86.8	86.1	86.4	84.2	83.9	69.4	71.1	70.9
3rd Trimester	1.7	1.8	1.7	1.9	2.1	1.4	2.0	2.2	3.2	3.0	3.8
No Care	3.0	2.4	2.1	1.9	2.2	1.7	2.2	1.6	3.4	3.9	3.6
Prenatal visits											
1-4	5.2	5.5	4.7	5.3	4.5	4.5	6.1	5.6	6.0	7.8	7.0
≥5	91.6	92.0	92.9	92.4	92.9	92.5	91.1	92.4	88.7	85.3	86.0
≥9	68.6	70.1	69.8	70.6	74.4	71.5	71.4	70.6	67.4	64.3	63.5
≥13	27.1	31.0	29.9	30.5	34.3	34.6	31.7	33.0	28.4	24.0	25.3
Medical risks/ Complications^b											
	66.5	68.6	71.5	71.5	73.2	72.2	74.2	75.2	60.4	58.6	62.3
Gestational age^c											
Preterm (<37 weeks)	74.6	74.0	72.9	71.7	69.5	70.9	71.4	70.7	68.7	70.0	69.4
Birth weight											
<1,500 grams	16.1	15.0	15.7	15.5	13.3	16.7	16.1	15.3	16.4	8.8	15.6
<1,000 grams	7.1	6.2	6.8	6.9	5.7	7.6	7.6	6.9	7.3	6.3	7.0
Child's sex											
Male	47.4	46.9	47.0	46.3	45.4	47.1	46.7	49.3	47.0	46.7	45.9
Female	52.6	53.1	53.0	53.7	54.6	52.9	53.3	50.7	53.0	53.3	54.1
Plurality											
Multiple births	28.7	29.6	30.1	26.7	29.2	29.1	28.8	29.7	30.3	27.2	30.6
Caesarean delivery											
	48.4	49.6	53.2	50.5	51.1	50.9	52.5	49.5	52.2	52.2	52.3
Place of delivery											
Hospital ^d	99.5	99.5	99.4	99.7	99.5	99.2	99.4	99.6	99.5	99.3	99.2
Attendant at birth											
Midwife ^e	0.9	1.2	1.3	1.1	1.1	1.0	1.3	1.7	11.4	11.9	12.8
Previous live births											
1 or more	56.9	57.5	58.3	56.7	58.2	56.2	57.9	56.8	58.8	56.5	59.1

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, 2006-2016
(HISPANIC OR LATINO MOTHERS)

Characteristic	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Number of births	44,862	45,731	42,639	38,362	34,333	32,398	33,146	33,075	33,715	34,264	33,874
Age of mother											
≤19 years	17.2	17.0	16.8	16.5	15.6	14.3	14.0	12.3	11.3	9.9	9.3
≥30 years	25.5	26.5	27.5	28.4	29.4	29.8	30.2	30.6	31.9	32.3	32.5
Marital status											
Unmarried	55.4	56.7	56.5	56.9	56.2	56.6	57.2	57.1	56.1	56.2	55.8
Mother's education											
<9 years	16.4	15.4	13.9	12.3	10.7	9.3	8.7	7.6	7.5	6.7	6.2
Prenatal care began											
1st Trimester	70.1	70.5	73.4	74.1	76.6	76.5	78.2	76.2	60.5	63.6	63.9
3rd Trimester	5.1	4.9	4.5	4.4	4.1	4.1	4.3	5.0	6.9	6.9	7.4
No Care	3.6	3.2	2.5	2.9	2.6	2.5	1.9	2.1	3.2	3.0	3.4
Prenatal visits											
1-4	5.2	4.9	4.4	4.5	4.2	4.4	4.5	4.8	5.4	5.3	5.6
≥5	91.0	91.8	93.0	92.4	93.0	92.7	93.3	93.0	90.2	90.9	89.9
≥9	70.3	71.2	73.3	73.4	75.0	76.3	77.0	77.0	73.5	73.0	72.0
≥13	23.9	25.7	26.7	26.3	27.2	28.8	29.1	29.0	26.2	26.1	25.8
Medical risks/ Complications^b											
Gestational age ^c	41.5	41.4	43.7	46.4	48.0	44.2	52.6	54.6	34.2	40.0	41.6
Preterm (<37 weeks)	10.1	9.8	9.9	9.7	9.5	9.1	9.4	9.3	9.2	9.0	9.2
Birth weight											
<2,500 grams	6.9	6.6	6.7	6.6	6.8	6.4	6.8	6.6	6.7	6.9	7.1
<1,500 grams	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2
Child's sex											
Male	51.2	51.4	51.0	51.1	50.5	51.4	51.2	51.3	51.3	50.9	50.9
Female	48.8	48.6	49.0	48.9	49.5	48.6	48.8	48.7	48.7	49.1	49.1
Plurality											
Multiple births	2.4	2.2	2.2	2.2	2.3	2.1	2.1	2.4	2.2	2.4	2.5
Caesarean delivery											
Place of delivery	24.0	24.6	25.7	25.8	25.9	26.1	26.0	26.7	26.1	26.3	26.3
Hospital ^d	99.8	99.7	99.8	99.7	99.7	99.6	99.6	99.6	99.5	99.5	99.4
Attendant at birth											
Midwife ^e	4.6	4.9	5.6	6.0	5.7	5.3	6.1	5.9	7.4	9.8	10.9
Previous live births											
1 or more	66.0	66.4	67.4	67.2	66.9	66.6	66.2	67.0	67.4	67.1	67.7

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-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, 2006-2016**
(HISPANIC OR LATINO MOTHERS)

Characteristic	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Number of LBW births	3,074	3,021	2,866	2,546	2,342	2,075	2,256	2,199	2,247	2,364	2,400
Age of mother											
≤19 years	20.5	19.4	18.7	18.1	17.1	16.6	15.0	12.9	11.7	10.9	9.9
≥30 years	27.0	28.5	29.0	31.7	32.6	29.3	32.3	31.7	33.0	35.4	35.0
Marital status											
Unmarried	58.6	60.2	58.6	58.7	60.6	61.7	61.9	61.5	58.1	58.5	58.4
Mother's education											
<9 years	15.0	15.7	12.2	12.2	9.5	9.3	8.5	7.2	7.4	6.4	7.0
Prenatal care began											
1st Trimester	71.1	69.7	74.8	75.9	76.7	77.2	76.5	74.8	59.3	60.3	62.2
3rd Trimester	3.6	4.0	3.2	2.7	3.2	2.7	3.2	3.8	4.9	4.4	5.0
No Care	6.4	6.0	4.7	5.2	3.9	4.3	3.7	4.2	5.8	5.6	6.1
Prenatal visits											
1-4	11.0	10.7	9.6	9.5	9.2	9.7	10.6	9.5	10.5	9.5	10.7
≥5	82.3	83.1	85.5	85.0	86.2	85.4	85.4	85.9	82.2	83.4	80.7
≥9	53.5	54.4	58.5	58.2	58.7	59.9	59.9	63.7	55.2	54.0	52.2
≥13	18.6	20.7	22.5	21.3	21.4	23.6	21.9	24.1	16.3	15.7	16.3
Medical risks											
Complications^b	62.4	62.2	67.1	69.0	72.8	66.4	73.8	70.3	57.1	61.1	61.0
Gestational age^c											
Preterm (<37 weeks)	71.5	71.6	72.0	71.1	70.9	71.4	72.0	71.5	72.0	69.4	68.6
Birth weight											
<1,500 grams	18.2	18.2	16.3	17.1	15.6	16.6	16.8	16.7	16.6	16.2	16.3
<1,000 grams	8.6	9.8	7.4	8.4	7.3	8.9	8.2	8.0	8.9	7.7	8.1
Child's sex											
Male	47.2	49.3	48.9	48.5	47.8	46.7	51.1	49.9	49.3	48.3	50.5
Female	52.8	50.7	51.1	51.5	52.2	53.3	48.9	50.1	50.7	51.7	49.5
Plurality											
Multiple births	19.1	19.5	18.3	18.6	18.8	18.1	18.5	21.3	18.0	18.4	19.5
Caesarean delivery											
	39.8	40.1	41.4	42.6	42.5	44.4	43.3	46.5	42.9	45.3	45.4
Place of delivery											
Hospital ^d	99.9	99.7	99.9	99.9	99.9	99.6	99.8	99.8	99.9	99.7	99.5
Attendant at birth											
Midwife ^e	1.5	2.4	2.9	2.6	3.0	2.4	3.0	2.5	7.0	9.1	9.6
Previous live births											
1 or more	61.2	63.8	62.2	63.0	63.0	62.8	63.9	63.4	63.7	64.0	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, 2006-2016
(BLACK OR AFRICAN AMERICAN MOTHERS)

Characteristic	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Number of births	3,864	4,165	4,301	4,378	4,328	4,366	4,715	4,726	4,522	4,361	4,388
Age of mother											
≤19 years	15.6	14.9	15.3	13.8	13.0	12.8	11.5	10.7	8.7	7.2	7.2
≥30 years	26.2	27.0	26.7	28.2	28.3	30.3	30.2	30.6	34.1	36.0	35.0
Marital status											
Unmarried	62.3	61.9	62.6	62.7	63.1	63.6	64.8	63.7	62.5	63.2	61.3
Mother's education											
<9 years	4.6	4.4	5.0	4.4	5.2	4.3	4.3	3.7	3.3	4.1	4.3
Prenatal care began											
1st Trimester	77.4	76.8	77.6	80.3	81.6	80.4	79.9	78.2	61.4	62.2	62.8
3rd Trimester	2.8	3.7	3.7	2.9	3.3	3.0	3.4	4.5	7.7	6.9	7.9
No Care	2.3	2.7	2.1	1.6	1.7	1.6	1.1	1.3	2.8	2.5	2.2
Prenatal visits											
1-4	4.1	4.4	3.7	3.6	4.1	4.0	4.5	4.7	6.2	6.4	6.3
≥5	93.3	92.8	93.9	94.5	94.0	93.4	94.1	93.8	89.7	89.9	89.6
≥9	74.6	75.0	75.4	78.6	78.4	79.1	78.5	79.1	72.1	71.5	70.2
≥13	26.9	28.2	28.5	29.5	30.4	33.6	32.7	31.0	24.7	25.4	25.7
Medical risks											
Complications^b	44.4	46.4	50.3	53.4	56.0	52.0	56.6	57.2	36.0	44.3	44.3
Gestational age^c											
Preterm (<37 weeks)	14.5	14.9	14.0	14.4	12.3	12.7	11.9	11.8	12.1	12.2	12.4
Birth weight											
<2,500 grams	12.7	12.8	11.7	12.8	11.4	12.5	11.7	11.1	11.9	12.3	12.0
<1,500 grams	2.3	2.6	2.6	2.8	2.6	2.5	2.3	2.0	2.5	2.3	2.4
Child's sex											
Male	50.8	51.8	52.4	52.0	50.8	50.5	50.5	51.8	51.9	51.5	50.7
Female	49.2	48.2	47.6	48.0	49.2	49.5	49.5	48.2	48.1	48.5	49.3
Plurality											
Multiple births	3.8	3.6	4.1	4.2	3.3	3.6	4.1	3.7	4.7	3.9	3.3
Caesarean delivery											
Place of delivery	29.1	30.3	30.5	30.9	30.7	31.1	31.9	31.4	33.0	32.8	32.4
Hospital ^d	99.3	99.6	99.4	99.6	99.5	99.3	99.6	99.3	99.5	99.6	99.1
Attendant at birth											
Midwife ^e	2.6	2.4	3.4	3.2	3.4	2.7	3.5	3.9	8.8	11.7	12.0
Previous live births											
1 or more	61.4	63.2	62.7	62.8	62.8	63.0	63.8	64.6	66.9	66.2	66.2

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, 2006-2016
(BLACK OR AFRICAN AMERICAN MOTHERS)

Characteristic	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Number of LBW births	489	532	503	559	492	546	551	523	536	535	525
Age of mother											
≤19 years	17.0	15.8	16.7	13.8	17.5	13.7	10.2	12.8	9.0	6.9	9.1
≥30 years	29.2	28.2	31.8	30.6	27.6	33.5	32.3	33.8	35.8	38.7	33.9
Marital status											
Unmarried	66.1	66.4	65.2	69.8	72.2	67.9	69.0	72.8	67.0	64.9	64.0
Mother's education											
<9 years	4.3	5.5	4.4	3.2	4.3	2.9	2.9	3.1	2.4	3.0	4.6
Prenatal care began											
1st Trimester	75.9	77.4	77.7	79.4	82.5	80.0	78.8	77.8	59.1	63.9	62.5
3rd Trimester	1.6	3.4	3.4	2.5	1.6	3.1	3.4	3.3	4.7	4.5	5.1
No Care	3.5	3.6	4.4	4.1	2.4	2.4	2.4	3.4	6.2	5.0	4.6
Prenatal visits											
1-4	9.4	9.0	6.8	7.3	9.3	9.5	10.3	8.6	11.2	12.9	10.9
≥5	86.7	87.4	88.5	88.0	87.8	86.3	86.0	87.2	81.2	80.4	81.0
≥9	60.9	60.0	62.0	64.0	60.4	64.1	64.4	66.7	55.2	55.7	55.6
≥13	21.3	22.9	21.3	23.8	26.6	29.3	27.6	25.2	20.1	22.2	16.0
Medical risks											
Complications^b	63.0	67.7	68.4	72.8	74.0	68.7	68.4	70.0	56.7	57.9	59.4
Gestational age^c											
Preterm (<37 weeks)	70.6	70.1	71.6	72.1	68.9	65.6	65.7	66.9	68.3	65.0	68.2
Birth weight											
<1,500 grams	18.2	20.3	22.1	22.2	23.0	20.0	20.0	18.0	21.5	18.5	20.0
<1,000 grams	9.8	10.2	13.1	10.9	12.6	10.8	10.3	10.3	12.9	10.5	11.4
Child's sex											
Male	45.2	47.9	49.7	49.7	42.3	46.0	45.7	47.2	45.9	46.9	46.1
Female	54.6	52.1	50.3	50.3	57.7	54.0	54.3	52.8	54.1	53.1	53.9
Plurality											
Multiple births	18.2	18.6	19.1	22.0	19.7	17.8	21.2	21.4	22.2	22.8	15.6
Caesarean delivery											
	37.4	43.0	44.9	45.6	43.9	43.4	45.6	42.8	45.9	47.9	47.6
Place of delivery											
Hospital ^d	99.6	100.0	99.8	99.6	99.4	99.8	100.0	99.0	99.8	100.0	99.6
Attendant at birth											
Midwife ^e	1.0	1.1	2.0	1.3	2.0	2.6	0.9	1.9	8.6	10.3	11.2
Previous live births											
1 or more	62.8	64.5	62.8	61.4	59.3	62.5	65.2	61.8	66.6	64.9	60.6

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-12
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS^a, ARIZONA, 2006-2016
(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)

Characteristic	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Number of births	6,364	6,408	6,362	6,170	5,815	5,830	5,569	5,476	5,145	4,984	5,030
Age of mother											
≤19 years	19.1	20.1	18.6	19.0	17.0	16.9	16.0	14.2	11.7	11.4	10.7
≥30 years	23.6	24.0	24.0	23.8	24.1	25.0	25.2	26.6	26.7	28.9	31.3
Marital status											
Unmarried	74.8	75.9	75.8	76.9	77.7	77.1	78.5	79.2	78.9	79.6	78.1
Mother's education											
<9 years	3.5	3.0	3.2	2.8	2.8	2.5	2.5	2.4	2.2	2.1	1.9
Prenatal care began											
1st Trimester	65.9	65.9	65.1	66.0	69.4	68.6	68.2	68.7	58.4	58.5	60.7
3rd Trimester	7.0	6.6	7.8	7.4	6.2	6.1	7.0	6.1	7.5	8.4	8.2
No Care	3.5	3.2	3.1	2.1	2.3	2.5	2.0	2.4	2.9	4.3	4.0
Prenatal visits											
1-4	9.7	8.8	9.3	8.6	8.8	9.0	9.1	9.5	10.5	10.4	11.0
≥5	86.5	87.7	87.4	88.9	88.5	87.8	88.4	87.7	85.0	84.2	83.9
≥9	60.5	61.2	59.9	61.5	64.0	62.8	64.0	63.7	59.3	60.0	59.9
≥13	18.3	19.4	18.7	17.9	18.8	19.7	20.7	21.3	18.2	18.7	19.0
Medical risks/ Complications^b											
Gestational age^c	56.5	57.2	54.8	54.3	55.3	53.8	60.4	61.7	45.9	52.4	53.5
Preterm (<37 weeks)											
Birth weight	11.7	10.4	9.8	9.6	10.6	9.0	9.7	9.7	8.2	9.6	9.9
<2,500 grams	7.4	6.6	6.7	6.4	7.0	6.9	6.7	7.2	6.1	7.3	7.2
<1,500 grams	1.1	1.0	1.1	0.9	1.2	1.3	1.1	1.0	0.9	1.3	1.3
Child's sex											
Male	50.0	50.2	50.1	50.4	50.4	50.7	50.5	51.6	49.7	50.8	50.4
Female	50.0	49.8	49.9	49.6	49.6	49.3	49.5	48.4	50.3	49.2	49.6
Plurality											
Multiple births	1.8	1.4	1.5	1.6	1.8	1.5	1.6	1.8	1.3	1.8	2.2
Caesarean delivery											
Place of delivery	22.4	22.9	23.1	23.2	22.9	23.1	23.8	24.0	22.7	22.6	23.5
Hospital ^d	99.6	99.7	99.7	99.7	99.6	99.6	99.7	99.7	99.7	99.4	99.5
Attendant at birth											
Midwife ^e	28.8	29.3	28.0	27.6	28.6	27.9	27.8	27.6	10.6	9.1	9.8
Previous live births											
1 or more	68.1	66.5	66.9	66.6	67.3	66.5	67.6	68.5	70.0	71.0	71.4

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-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, 2006-2016
(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)

Characteristic	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Number of LBW births	473	426	428	396	406	403	372	393	315	365	363
Age of mother											
≤19 years	19.2	22.8	16.8	18.2	15.3	18.9	18.0	10.2	10.8	10.1	8.5
≤30 years	28.5	28.4	26.6	28.8	29.6	26.8	33.1	29.5	30.8	34.5	35.5
Marital status											
Unmarried	76.5	75.8	80.1	79.3	75.4	81.1	80.9	82.2	78.4	81.9	75.2
Mother's education											
<9 years	4.2	2.1	4.4	2.5	3.0	2.0	3.2	5.1	2.9	3.6	1.1
Prenatal care began											
1st Trimester	63.0	67.4	66.8	65.2	69.7	70.0	69.1	66.9	46.7	48.5	54.0
3rd Trimester	7.0	5.4	6.8	5.8	4.2	4.0	4.3	8.4	5.1	6.6	6.3
No Care	9.5	8.5	7.5	4.3	6.7	6.7	5.9	4.3	8.6	13.7	9.9
Prenatal visits											
1-4	15.0	11.5	16.4	12.1	13.5	11.4	15.1	17.6	15.6	15.3	18.5
≥5	74.8	79.6	75.7	81.8	78.8	79.7	78.2	76.8	72.7	66.6	69.4
≥9	44.4	46.2	44.6	52.0	47.8	47.4	51.6	50.6	40.6	40.5	41.3
≥13	11.4	15.7	16.6	16.9	15.5	13.9	16.4	15.3	10.2	11.2	12.9
Medical risks/ Complications^b											
Gestational age ^c	74.8	69.7	66.1	69.4	74.4	65.5	70.2	71.2	65.7	68.5	70.8
Preterm (<37 weeks)	74.2	71.8	71.7	69.7	74.9	69.0	79.0	70.7	65.1	69.9	71.1
Birth weight											
<1,500 grams	15.4	15.3	16.8	14.4	16.7	18.4	16.7	13.7	14.6	18.1	17.6
<1,000 grams	5.5	7.5	7.9	8.1	7.4	9.2	8.9	4.6	7.9	8.5	7.7
Child's sex											
Male	52.0	46.0	45.6	48.2	54.9	46.4	49.2	51.4	44.4	45.8	52.1
Female	48.0	54.0	54.4	51.8	45.1	53.6	50.8	48.6	55.6	54.2	47.9
Plurality											
Multiple births	13.5	11.3	13.3	13.1	15.5	11.7	15.6	12.7	9.8	13.4	17.4
Caesarean delivery											
Place of delivery	39.3	40.1	39.3	39.4	44.6	34.5	47.3	44.3	41.9	43.8	43.3
Hospital ^d	99.8	99.8	99.8	99.5	99.8	99.5	99.7	100.0	100.0	98.6	99.2
Attendant at birth	Midwife ^e	11.8	14.3	10.7	11.1	11.1	10.7	8.9	11.5	10.2	7.9
Previous live births											
1 or more	68.1	59.9	66.4	64.1	67.2	64.3	69.6	68.7	69.8	70.4	69.7

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-14
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS^a, ARIZONA, 2006-2016
(ASIAN OR PACIFIC ISLANDER MOTHERS)

Characteristic	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Number of births	3,136	3,412	3,425	3,396	3,293	3,505	3,625	3,466	3,169	3,235	3,350
Age of mother											
≤19 years	2.9	3.0	3.3	2.6	3.1	3.2	2.2	2.3	1.8	1.9	1.5
≥30 years	53.7	53.9	55.9	55.6	55.9	57.4	57.3	59.2	60.4	60.5	60.8
Marital status											
Unmarried	16.2	17.6	17.4	15.8	17.4	17.3	17.3	16.0	15.2	14.3	15.4
Mother's education											
<9 years	2.4	1.6	2.3	2.2	3.3	3.1	3.1	2.7	3.0	3.1	3.0
Prenatal care began											
1st Trimester	86.1	86.5	86.4	88.1	88.1	86.5	87.1	86.4	70.5	71.8	73.2
3rd Trimester	2.1	2.1	3.1	1.9	2.3	2.3	2.0	2.9	4.5	5.0	4.3
No Care	1.2	1.5	1.3	1.3	1.2	1.0	0.7	0.7	1.4	1.2	1.3
Prenatal visits											
1-4	2.0	1.8	2.4	2.1	1.9	2.3	2.4	2.6	2.6	3.6	3.1
≥5	96.5	96.6	96.2	96.4	96.7	96.2	96.8	96.6	94.5	93.9	93.7
≥9	82.7	83.9	83.2	85.6	86.7	84.2	86.2	85.6	82.3	80.6	79.8
≥13	30.3	35.3	33.5	35.6	36.0	37.9	37.2	39.2	33.7	31.6	29.9
Medical risks/ Complications^b											
Gestational age ^c	43.5	45.4	46.4	48.1	51.5	47.4	52.9	57.4	37.9	42.2	44.4
Preterm (<37 weeks)	10.4	9.6	10.0	10.0	9.9	9.0	8.4	8.9	8.0	9.4	8.7
Birth weight											
<2,500 grams	8.5	8.0	9.1	8.8	8.5	8.3	7.2	7.9	8.1	9.0	9.3
<1,500 grams	1.1	1.0	1.5	1.5	1.4	1.1	0.8	1.1	1.2	1.2	1.4
Child's sex											
Male	52.2	53.2	51.3	51.7	50.7	52.4	52.1	51.4	51.5	51.5	51.7
Female	47.8	46.8	48.7	48.3	49.3	47.6	47.9	48.6	48.5	48.5	48.3
Plurality											
Multiple births	2.7	2.3	3.6	2.9	2.5	3.3	2.5	3.2	3.2	3.3	3.7
Caesarean delivery											
Place of delivery	30.5	30.0	32.0	32.6	32.8	33.0	32.1	33.2	32.4	34.0	32.5
Hospital ^d	99.4	99.5	99.4	99.4	99.6	99.3	99.2	99.1	99.3	99.4	99.3
Attendant at birth											
Midwife ^e	2.1	1.7	2.7	3.0	2.8	3.1	4.0	3.3	10.0	10.4	11.1
Previous live births											
1 or more	53.3	54.5	52.9	54.8	55.5	54.6	55.5	56.2	53.4	54.0	54.1

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-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, 2006-2016
(ASIAN OR PACIFIC ISLANDER MOTHERS)

Characteristic	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Number of LBW births	268	272	311	299	280	292	262	275	256	291	313
Age of mother											
≤19 years	1.1	2.2	3.5	3.3	5.4	5.1	5.0	1.5	1.2	1.7	1.0
≤30 years	53.7	55.5	59.5	54.8	52.1	58.6	64.9	66.2	64.1	61.5	63.3
Marital status											
Unmarried	18.7	16.9	21.5	20.4	18.9	18.2	18.3	12.4	14.1	15.1	13.7
Mother's education											
<9 years	3.0	1.1	2.6	1.7	3.2	4.1	3.8	3.6	4.3	2.7	3.2
Prenatal care began											
1st Trimester	87.7	83.8	82.6	87.0	84.3	83.9	87.8	86.9	70.3	72.9	74.4
3rd Trimester	1.5	1.5	3.5	3.0	2.9	2.1	0.4	3.6	4.7	3.8	2.9
No Care	3.0	3.7	4.2	2.0	1.4	2.7	0.8	0.7	3.5	2.7	2.9
Prenatal visits											
1-4	3.7	4.0	7.7	7.4	6.8	4.8	2.3	6.2	4.7	8.6	7.0
≥5	92.9	92.3	88.1	90.0	91.4	92.5	96.9	93.1	88.7	86.9	87.2
≥9	68.7	67.6	69.8	72.6	70.7	72.9	78.6	73.5	66.8	64.6	67.7
≥13	22.8	29.4	34.1	34.4	27.1	30.8	32.8	31.6	25.4	29.6	22.0
Medical risks/ Complications^b											
Gestational age^c	67.9	66.5	61.1	70.2	74.3	68.8	72.5	73.8	54.7	56.0	61.0
Preterm (<37 weeks)	67.2	68.0	60.5	66.2	65.4	64.7	63.0	61.1	60.2	60.1	60.7
Birth weight											
<1,500 grams	13.4	12.9	16.1	17.4	16.4	12.7	11.5	13.5	15.2	13.1	15.3
<1,000 grams	5.2	4.8	9.3	8.7	7.9	6.2	5.3	6.2	6.6	6.5	8.6
Child's sex											
Male	49.3	47.4	51.8	50.2	45.0	46.9	52.7	46.5	49.2	48.8	45.4
Female	50.7	52.6	48.2	49.8	55.0	53.1	47.3	53.5	50.8	51.2	54.6
Plurality											
Multiple births	19.0	21.7	26.7	22.4	18.9	25.7	20.2	23.6	24.2	25.1	24.0
Caesarean delivery											
	44.4	40.4	49.8	51.5	45.4	51.4	44.3	53.1	47.7	51.5	47.0
Place of delivery											
Hospital ^d	100.0	100.0	99.7	100.0	100.0	99.7	100.0	100.0	100.0	100.0	99.7
Attendant at birth											
Midwife ^e	1.9	1.1	2.6	1.7	1.1	0.3	2.7	2.2	12.1	12.0	8.6
Previous live births											
1 or more	50.0	47.1	51.8	48.8	49.6	55.5	53.1	56.4	46.9	54.6	50.8

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-16
SINGLE AND PLURAL LIVE BIRTHS BY BIRTHWEIGHT, ARIZONA RESIDENTS, 2006-2016

Weight in grams	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Under 1,000, total	559	589	538	523	439	496	480	433	509	448	492
Single	413	450	419	431	346	379	383	332	384	358	380
Plural	146	139	119	92	93	117	97	101	125	90	112
1,000-1,499, total	670	634	618	577	505	505	506	494	509	523	519
Single	469	452	431	420	386	374	387	341	379	386	395
Plural	201	182	187	157	119	131	119	153	130	137	124
1,500-1,999, total	1,425	1,362	1,360	1,211	1,194	1,131	1,197	1,152	1,156	1,133	1,166
Single	979	935	944	835	823	794	814	830	803	793	808
Plural	446	427	416	376	371	337	383	322	353	340	358
2,000-2,499, total	4,612	4,700	4,510	4,262	4,017	3,817	3,763	3,770	3,895	3,988	4,009
Single	3,771	3,762	3,598	3,432	3,178	3,043	2,994	2,920	3,063	3,186	3,124
Plural	841	938	912	830	839	774	769	850	832	802	885
2,500-3,999, total	86,943	87,739	84,904	79,423	74,680	72,777	73,096	72,494	73,627	72,240	71,613
Single	85,755	86,631	83,674	78,297	73,596	71,741	72,085	71,377	72,449	71,109	70,450
Plural	1,188	1,108	1,230	1,126	1,084	1,036	1,011	1,117	1,178	1,131	1,163
4,000 and over, total	7,820†	7,640†	7,270†	6,601	6,200†	6,450†	6,680†	6,540†	6,900†	6,630†	6,570†
Single	7,817	7,634	7,267	6,601	6,194	6,450	6,674	6,537	6,900	6,633	6,569
Plural	*	*	*	0	*	*	*	*	*	*	*
All weights, total^a	102,042	102,687	99,215	92,616	87,053	85,190	85,725	84,963	86,648	85,024	84,404
Single	99,216	99,889	96,347	90,034	84,535	82,793	83,342	82,415	84,014	82,501	81,752
Plural	2,830†	2,800†	2,870†	2,582	2,510†	2,400†	2,380†	2,550†	2,630†	2,518	2,647

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, 2006-2016

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2006	8,089	7,614	8,371	7,724	8,088	8,311	8,897	9,265	9,140	8,618	8,759	102,042	
Percent	7.9	7.5	8.2	7.6	7.9	8.1	8.7	9.1	9.0	9.0	8.4	8.6	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	

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

TABLE 1B-18
BIRTHS BY DAY AND MONTH OF OCCURRENCE, ARIZONA RESIDENTS, 2016

		Month of birth												
		TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL		84,404	7,053	6,729	6,830	6,558	6,724	6,754	7,045	7,711	7,687	7,192	6,898	7,223
Day of birth														
1	2,859	198	231	251	240	162	253	245	249	292	216	253	269	
2	2,815	165	233	258	174	237	251	184	280	290	207	269	267	
3	2,680	162	223	261	169	252	266	183	254	229	231	258	192	
4	2,738	224	259	237	258	223	176	192	267	203	256	259	184	
5	2,729	251	227	191	232	234	168	231	279	215	278	190	233	
6	2,737	266	200	167	235	217	208	259	204	280	254	191	256	
7	2,815	243	209	230	246	186	233	264	192	275	254	232	251	
8	2,972	268	243	255	228	175	224	267	263	295	229	274	251	
9	2,758	210	241	247	151	199	260	220	275	293	174	253	235	
10	2,647	178	270	249	165	226	222	153	259	215	251	247	212	
11	2,792	226	272	251	202	227	204	260	268	199	262	254	167	
12	2,826	266	268	176	256	227	159	259	268	271	247	184	245	
13	2,719	235	201	174	246	228	239	244	203	285	252	181	231	
14	2,751	251	165	230	222	210	242	214	201	261	244	223	288	
15	2,828	239	223	245	230	162	242	252	240	289	205	255	246	
16	2,763	207	252	235	181	222	226	187	259	288	191	259	256	
17	2,663	179	250	221	171	236	225	170	277	216	253	262	203	
18	2,792	221	254	226	240	263	205	232	278	198	232	250	193	
19	2,817	228	274	163	253	230	169	263	281	237	246	218	255	
20	2,832	270	232	174	237	245	223	258	223	283	242	190	255	
21	2,868	275	184	215	258	200	243	228	183	258	292	241	291	
22	2,887	247	252	256	174	226	253	246	296	191	261	250		
23	2,808	203	239	260	178	225	240	199	258	291	198	271	246	
24	2,595	195	240	261	156	255	246	189	273	196	245	179	160	
25	2,703	251	253	219	242	243	210	245	266	192	258	173	151	
26	2,728	260	243	178	266	241	190	218	267	271	242	184	168	
27	2,649	242	175	138	229	273	254	241	193	246	234	175	249	
28	2,781	235	191	212	251	190	238	264	182	277	244	235	262	
29	2,853	264	225	229	239	166	248	246	253	275	187	259	262	
30	2,492	221		206	168	177	264	238	281	271	162	218	286	
31	1,507	173		215		219		187	289		215		209	

TABLE 1B-19
LIVE BIRTHS BY MOTHER'S AGE AND FATHER'S AGE, ARIZONA, 2016

Father's age group	Mother's age group									TOTAL
	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	
<15	*	*	*	0	0	0	0	0	0	10†
15-17	11	261	128	21	*	*	0	0	0	430†
18-19	*	348	900	422	31	13	*	0	0	1,720†
20-24	*	170	1,580	8,065	1,488	228	70	11	0	11,610†
25-29	0	31	250	5,776	10,995	2,159	401	54	*	19,670†
30-34	0	6	53	1,510	7,320	9,820	1,682	173	12	20,576
35-39	0	*	22	408	1,954	5,652	4,194	443	20	12,700†
40-44	0	*	13	155	534	1,430	2,155	750	26	5,070†
45-49	0	0	*	54	218	397	649	353	50	1,720†
50-54	0	0	*	21	63	147	191	111	29	560†
55+	0	0	0	15	27	62	73	48	18	243
Unknown	38	596	965	3,328	2,693	1,484	791	182	27	10,104
TOTAL	50†	1,420†	3,920†	19,775	25,330†	21,390†	10,210†	2,125	180†	84,404

TABLE 1B-20
LIVE BIRTHS BY MOTHER'S RACE/ETHNICITY AND FATHER'S RACE/ETHNICITY, ARIZONA, 2016

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	30,976	9,755	1,619	1,379	842	44,571
Hispanic or Latino	4,937	22,641	249	592	220	28,639
Black or African American	1,147	919	2,486	109	84	4,745
American Indian or Alaska Native	274	347	17	2,919	12	3,569
Asian or Pacific Islander	428	212	17	31	2,192	2,880
TOTAL	37,762	33,874	4,388	5,030	3,350	84,404

TABLE 1B-21
LIVE BIRTHS BY MOTHER'S AND FATHER'S EDUCATION, ARIZONA, 2016

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	998	706	659	216	123	58	21	15	2,796
Some High School	541	4,002	3,033	1,654	409	254	72	40	10,005
High School/GED	393	2,892	9,054	4,872	1,470	1,300	390	64	20,435
Some College	106	967	3,088	7,117	1,887	2,573	808	33	16,579
Associate Degree	72	224	914	1,565	1,281	1,270	437	14	5,777
Bachelor's Degree	40	140	792	1,757	1,115	5,551	2,228	18	11,641
Postgraduate Education	13	42	197	607	382	2,444	2,456	7	6,148
Unknown	579	3,299	3,463	2,245	498	349	107	483	11,023
TOTAL	2,742	12,272	21,200	20,033	7,165	13,799	6,519	674	84,404

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; 674 cases were missing mother's education, 11,023 cases were missing father's education.

TABLE 1B-22
**TOTAL BIRTHS AND RATIOS OF BIRTH BY MOTHER'S MARITAL STATUS,
 AGE GROUP, AND RACE/ETHNICITY, ARIZONA, 2016**

			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	45,553	0	61	473	6,323	14,530	15,282	7,348	1,431	105
		Percent	54.0%	0.0%	4.3%	12.1%	32.0%	57.4%	71.4%	72.0%	67.3%	57.4%
	Unmarried	Count	37,843	54	1,355	3,427	13,288	10,498	5,868	2,678	635	40
		Percent	44.8%	100.0%	95.4%	87.5%	67.2%	41.4%	27.4%	26.2%	29.9%	21.9%
	Unknown	Count	1,010†	0	*	16	164	300	244	183	59	38
		Percent	1.2%	0.0%	**	0.4%	0.8%	1.2%	1.1%	1.8%	2.8%	20.8%
	TOTAL	Count	84,404	54	1,420	3,916	19,775	25,328	21,394	10,209	2,125	183
		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	25,445	0	19	161	2,891	8,117	9,204	4,251	753	49
		Percent	67.4%	0.0%	6.7%	15.2%	41.0%	69.9%	80.8%	80.9%	75.1%	47.6%
	Unmarried	Count	11,812	8	264	888	4,096	3,359	2,058	906	216	17
		Percent	31.3%	100.0%	93.3%	84.1%	58.0%	28.9%	18.1%	17.2%	21.6%	16.5%
	Unknown	Count	505	0	0	7	69	133	127	99	33	37
		Percent	1.3%	0.0%	0.0%	0.7%	1.0%	1.1%	1.1%	1.9%	3.3%	35.9%
	TOTAL	Count	37,762	8	283	1,056	7,056	11,609	11,389	5,256	1,002	103
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Hispanic or Latino	Married	Count	14,578	0	38	276	2,853	4,805	4,032	2,078	463	33
		Percent	43.0%	0.0%	4.3%	12.4%	29.1%	48.5%	59.6%	61.0%	58.6%	64.7%
	Unmarried	Count	18,900	32	835	1,943	6,885	4,972	2,644	1,264	308	17
		Percent	55.8%	100.0%	95.2%	87.2%	70.2%	50.2%	39.1%	37.1%	39.0%	33.3%
	Unknown	Count	400†	0	*	8	72	136	94	62	19	*
		Percent	1.2%	0.0%	**	0.4%	0.7%	1.4%	1.4%	1.8%	2.4%	**
	TOTAL	Count	33,874	32	877	2,227	9,810	9,913	6,770	3,404	790	51
		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	1,650†	0	*	16	226	502	539	287	70	8
		Percent	37.6%	0.0%	**	6.9%	19.2%	37.0%	56.7%	61.2%	66.7%	66.7%
	Unmarried	Count	2,690†	*	78	215	939	838	402	176	33	*
		Percent	61.3%	**	96.3%	92.7%	79.6%	61.8%	42.3%	37.5%	31.4%	**
	Unknown	Count	50†	0	0	*	15	16	9	6	*	0
		Percent	1.1%	0.0%	0.0%	**	1.3%	1.2%	0.9%	1.3%	**	0.0%
	TOTAL	Count	4,390†	*	81	232	1,180	1,356	950	469	105	12
		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	1,050†	0	0	10	149	347	317	184	39	*
		Percent	20.8%	0.0%	0.0%	2.8%	10.7%	22.7%	32.3%	38.0%	37.5%	**
	Unmarried	Count	3,930†	11	167	352	1,235	1,165	652	284	61	*
		Percent	78.1%	100.0%	100.0%	97.2%	88.8%	76.3%	66.5%	58.7%	58.7%	**
	Unknown	Count	50†	0	0	0	7	15	12	16	*	0
		Percent	1.1%	0.0%	0.0%	0.0%	0.5%	1.0%	1.2%	3.3%	**	0.0%
	TOTAL	Count	5,030†	11	167	362	1,391	1,527	981	484	104	*
		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	*	10	204	759	1,190	548	106	13
		Percent	84.5%	0.0%	**	25.6%	60.4%	82.2%	91.3%	91.9%	85.5%	92.9%
	Unmarried	Count	520†	0	11	29	133	164	112	48	17	*
		Percent	15.4%	0.0%	91.7%	74.4%	39.3%	17.8%	8.6%	8.1%	13.7%	**
	Unknown	Count	0†	0	0	0	*	0	*	0	*	0
		Percent	0.1%	0.0%	0.0%	0.0%	**	0.0%	**	0.0%	**	0.0%
	TOTAL	Count	3,350	0	12	39	338	923	1,304	596	124	14
		Percent	100.0%	0.0%	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 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, 2016

		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	TOTAL	84,404	54	1,420†	3,920†	19,775	25,328	21,394	10,209	2,125	183
	None	29,666	54	1,317	3,157	9,676	7,868	5,210	1,981	362	41
	1	25,408	0	93	642	6,631	8,263	6,588	2,684	477	30
	2	15,636	0	8	107	2,577	5,463	4,755	2,275	413	38
	3	7,710†	0	*	7	687	2,445	2,683	1,525	344	20
	4 or more	5,960†	0	0	*	201	1,286	2,147	1,742	528	52
	Unknown	20†	0	*	0	*	*	11	*	*	*
White non-Hispanic	TOTAL	37,762	8	280†	1,060†	7,056	11,609	11,389	5,256	1,002	103
	None	14,261	8	269	897	3,837	4,369	3,314	1,307	232	28
	1	12,064	0	12	140	2,316	3,909	3,822	1,577	269	19
	2	6,445	0	0	17	705	2,160	2,323	1,053	166	21
	3	2,970†	0	*	*	153	853	1,156	650	141	9
	4 or more	2,011	0	0	0	42	318	766	668	193	24
	Unknown	20†	0	*	0	*	0	8	*	*	*
Hispanic or Latino	TOTAL	33,874	32	877	2,230†	9,810	9,913	6,770	3,404	790	50†
	None	10,950†	32	816	1,764	4,490	2,323	1,038	405	81	*
	1	9,780†	0	55	386	3,401	3,293	1,806	707	129	*
	2	6,925	0	6	70	1,442	2,510	1,820	886	179	12
	3	3,560†	0	0	*	370	1,165	1,172	668	168	9
	4 or more	2,650†	0	0	*	107	620	933	738	233	20
	Unknown	0†	0	0	0	0	*	*	0	0	0
Black or African American	TOTAL	4,390†	0†	81	232	1,180	1,356	950	469	105	10†
	None	1,480†	*	72	185	557	367	209	68	12	*
	1	1,180†	0	9	40	372	410	232	90	21	*
	2	850†	0	0	7	172	317	215	119	21	*
	3	412	0	0	0	56	146	124	71	15	0
	4 or more	470†	0	0	0	23	115	169	120	36	*
	Unknown	0†	0	0	0	0	*	*	*	0	0
American Indian or Alaska Native	TOTAL	5,030†	11	170†	360†	1,391	1,527	981	484	100†	0†
	None	1,440†	11	151	279	557	277	119	38	*	0
	1	1,200	0	14	69	471	390	177	67	12	0
	2	1,000†	0	*	13	234	390	249	94	19	0
	3	654	0	0	0	102	256	189	98	9	0
	4 or more	740†	0	0	*	27	214	247	187	59	*
	Unknown	0	0	0	0	0	0	0	0	0	0
Asian or Pacific Islander	TOTAL	3,350	0	10†	39	340†	923	1,304	596	124	10†
	None	1,540†	0	9	32	235	532	530	163	32	*
	1	1,190†	0	*	7	71	261	551	243	46	*
	2	410†	0	0	0	24	86	148	123	28	*
	3	120†	0	0	0	6	25	42	38	11	*
	4 or more	90†	0	0	0	*	19	32	29	7	*
	Unknown	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 2006 TO 2016 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		
	2006	% Change ^b	2006	% Change ^b	2006	% Change ^b	2006	% Change ^b	2006	% Change ^b	2006	% Change ^b	2006	% Change ^b	
Number of births^b	87,910	72,899	-17.1	14,083	11,502	-18.3	43,013	37,762	-12.2	44,862	33,874	-24.5	3,864	4,388	13.6
Per 100 births:															
Teenage mothers^c	12.3	6.1	-50.8	14.9	8.5	-42.9	7.5	3.6	-52.4	17.2	9.3	-46.2	15.6	7.2	-53.8
Unwed mother^d	43.0	43.7	1.7	49.2	51.8	5.2	27.7	31.3	12.9	55.4	55.8	0.7	62.3	61.3	-1.7
Early prenatal care^e	78.4	69.4	-11.4	73.5	65.4	-11.0	86.9	74.7	-14.0	70.1	63.9	-8.8	77.4	62.8	-18.9
0-4 prenatal visits	6.1	6.6	7.4	8.1	10.0	23.2	2.9	4.3	46.7	8.8	9.0	2.1	6.4	8.5	32.8
C-Section	26.0	27.7	6.4	25.8	26.2	1.7	27.9	28.0	0.3	24.0	26.3	9.7	29.1	32.4	11.4
LBW rate	7.0	7.2	3.3	7.7	8.0	3.4	6.7	6.8	2.2	6.9	7.1	2.7	12.7	12.0	-5.8
Newborn intensive care	5.1	7.0	37.9	5.1	6.0	17.3	5.7	6.7	18.1	4.4	6.7	53.2	7.0	9.7	38.0
Preterm births (< 37 weeks)	10.7	9.0	-15.5	10.0	9.1	-9.0	10.5	8.5	-19.4	10.1	9.2	-9.1	14.5	12.4	-14.7
Births paid for by the AHCCCS^f	51.5	50.9	-1.1	55.7	61.0	9.5	30.9	35.1	13.7	73.1	69.3	-5.2	61.6	69.8	13.3

Notes: ^a Urban = Maricopa, Pima, 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 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, 2016**

						Mother's race/ethnicity				
		TOTAL	Urban ^a	Rural	Un-known	White non-Hispanic or Latino	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
TOTAL		84,404	72,899	11,502	0 [†]	37,762	33,874	4,390 [†]	5,030 [†]	3,350
Mother's age group						8	32	*	11	0
<15		50 [†]	40	14	0	283	877	81	167	12
15-17		1,420	1,153	267	0	1,056	2,227	232	362	39
18-19		3,916	3,219	697	0					
20-24		19,775	16,625	3,149	*	7,056	9,810	1,180	1,391	338
25-29		25,328	21,793	3,533	*	11,609	9,913	1,356	1,527	923
30-34		21,394	18,975	2,419	0	11,389	6,770	950	981	1,304
35-39		10,209	9,061	1,148	0	5,256	3,404	469	484	596
40-44		2,125	1,876	249	0	1,002	790	105	104	124
45+		180 [†]	157	26	0	103	51	12	*	14
AHC/CCS		44,146	37,129	7,015	*	13,267	23,480	3,062	3,435	902
IHS		1,070 [†]	636	432	0	96	65	*	901	*
Private insurance		34,516	31,235	3,280	*	21,832	8,740	1,099	606	2,239
Self-pay		4,373	3,634	739	0	2,414	1,491	206	82	180
Unknown		301	265	36	0	153	98	18	6	26
8th Grade or Less		2,742	2,533	209	0	241	2,115	187	98	101
Some High School / GED		12,272	10,367	1,904	*	2,669	7,574	609	1,239	181
Some College		21,200	17,693	3,507	0	7,254	10,574	1,264	1,681	427
Associate Degree		20,033	16,932	3,101	0	9,590	7,393	1,246	1,399	405
Bachelor's Degree		7,165	6,095	1,069	*	3,855	2,419	336	342	213
Postgraduate Education		13,799	12,629	1,170	0	9,363	2,669	446	181	1,140
Unknown		6,519	6,049	470	0	4,384	945	256	72	862
Marital status		674	601	72	*	406	185	44	18	21
Married		45,553	40,172	5,380	*	25,445	14,578	1,651	1,048	2,831
Unmarried^b		37,843	31,885	5,956	*	11,812	18,900	2,688	3,928	515
Unknown		1,010 [†]	842	166	0	505	396	49	54	*
Weight gain										
Inadequate		19,276	16,789	2,487	0	7,435	8,629	1,120	1,102	990
Adequate		26,165	22,642	3,522	*	11,926	10,422	1,203	1,430	1,184
Excessive		38,460	33,030	5,428	*	18,183	14,630	2,020	2,468	1,159
Unknown		503	438	65	0	218	193	45	30	17
Smoking during pregnancy										
Non-smoker		79,684	69,591	10,092	*	34,532	33,015	4,117	4,730	3,290
Light smoker (less than 10 cigarettes per day)		2,382	1,816	566	0	1,492	528	180	148	34
Heavy smoker (10 or more cigarettes per day)		1,633	1,176	457	0	1,322	207	61	34	9
Unknown		705	316	387	*	416	124	30	118	17
<37 weeks		7,638	6,591	1,047	0	3,196	3,111	543	497	291
37-41 weeks		76,397	66,025	10,369	*	34,364	30,664	3,826	4,491	3,052
42+ weeks		230 [†]	180	48	0	133	56	15	21	*
Length of gestation										
<1,000 grams		492	431	61	0	182	195	60	28	27
1,000-1,499		519	445	74	0	221	196	45	36	21
1,500-2,499		5,175	4,394	781	0	2,182	2,009	420	299	265
2,500-3,999		71,613	61,791	9,819	*	31,839	29,015	3,680	4,179	2,900
4,000+ grams		6,574	5,817	757	0	3,318	2,453	181	486	136
Unknown		30 [†]	21	10	0	20	6	*	*	*

TABLE 1B-25 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
ARIZONA, 2016

						Mother's race/ethnicity				
		TOTAL	Urban ^a	Rural	Un-known	White non-Hispanic or Latino	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
Prenatal care	No care	2,015	1,669	346	0	537	1,136	96	203	43
	1st trimester	58,135	50,613	7,520	*	28,214	21,660	2,756	3,053	2,452
	2nd trimester	14,969	12,556	2,412	*	5,258	7,040	956	1,180	535
	3rd trimester	4,897	4,052	845	0	1,480	2,515	346	411	145
Prenatal visits	Unknown	4,388	4,009	379	0	2,273	1,523	234	183	175
	No visits	2,015	1,669	346	0	537	1,136	96	203	43
	1-4 visits	3,910	3,108	802	0	1,070	1,907	277	553	103
	5-8 visits	13,035	10,735	2,300	0	4,457	6,053	852	1,207	466
9-12 visits	38,959	34,267	4,690	*	17,633	15,649	1,950	2,056	1,671	
	13+ visits	25,229	21,965	3,263	*	13,400	8,743	1,129	955	1,002
	Unknown	1,256	1,155	101	0	665	386	84	56	65
	Newborn intensive care	5,814	5,126	688	0	2,542	2,283	424	323	242
Method of delivery	No	78,590	67,773	10,814	*	35,220	31,591	3,964	4,707	3,108
	Vaginal	58,968	50,926	8,039	*	26,110	24,127	2,874	3,772	2,085
	C-Section	23,178	20,160	3,018	0	10,563	8,919	1,423	1,183	1,090
	Forceps	326	289	37	0	136	134	17	16	23
Obstetric procedures^c	Vacuum	1,927	1,520	407	0	948	694	74	59	152
	Unknown	10†	*	*	0	*	0	0	0	0
	Total	39,665	34,422	5,241	2	17,860	16,107	1,969	2,258	1,471
	Induction of labor	24,762	21,387	3,374	*	11,570	9,702	1,324	1,346	820
Augmentation of labor	19,400	17,121	2,278	*	8,165	8,373	885	1,165	812	
	Cervical cerclage	128	112	16	0	55	50	9	7	7
	Tocotilis	359	297	62	0	147	157	10	31	14
	External cephalic version successful	60†	48	13	0	30	20	*	7	*
External cephalic version failed	90†	60	26	0	45	20	*	15	15	*
	Total	17,606	15,145	2,461	0	6,871	7,176	1,027	1,780	752
	Pre-existing diabetes	764	632	132	0	236	304	41	158	25
	Gestational diabetes	6,417	5,588	829	0	2,368	2,592	260	740	457
Pre-existing hypertension	972	842	130	0	393	400	91	66	22	
	Gestational hypertension	5,263	4,532	731	0	2,207	2,013	371	528	144
	Eclampsia	160†	124	31	0	55	68	8	23	*
	Previous preterm birth	3,444	2,950	494	0	1,500	1,449	207	220	68
Other previous poor pregnancy outcome	1,141	970	171	0	533	407	76	91	34	
	Gonorrhea	250†	215	34	0	65	122	32	27	*
	Syphilis	70†	60	8	0	14	37	7	9	*
	Chlamydia	2,138	1,761	377	0	492	1,118	145	349	34
Hepatitis B	120†	*	0	0	24	21	22	*	52	
	Hepatitis C	180†	140	39	0	102	48	*	24	*

TABLE 1B-25 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
ARIZONA, 2016

						Mother's race/ethnicity				
		TOTAL	Urban ^a	Rural	Un-known	White non-Hispanic or Latino	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
Births with complications of labor and delivery^c		22,548	19,955	2,593	0	9,475	9,315	1,287	1,477	994
Total		3,636	3,138	498	0	1,637	1,368	153	314	164
Premature rupture of the membranes		4,592	4,069	523	0	1,513	2,296	294	305	184
Precipitous labor		1,740	1,468	272	0	817	597	85	155	86
Prolonged labor		3,142	2,680	462	0	1,644	1,025	144	183	146
Breech presentation		1,779	1,637	142	0	677	810	84	93	115
Chorioamnionitis		6,303	5,859	444	0	2,487	2,810	409	344	253
Meconium staining of the amniotic fluid		4,967	4,365	602	0	2,234	1,871	332	310	220
Fetal intolerance		378	295	83	0	116	163	21	65	13
Maternal transfusion		390	341	49	0	194	113	21	25	37
Third or fourth degree perineal laceration		30†	27	6	0	14	13	*	*	*
Ruptured uterus		40†	26	11	0	9	18	*	7	*
Unplanned Hysterectomy		130†	109	20	0	46	53	10	17	*
Admission to intensive care unit		154	121	33	0	51	65	6	25	7
Unplanned surgery following delivery		3,738	3,102	636	0	1,770	1,315	234	262	157
Total		2,507	2,037	470	0	1,251	835	160	166	95
Assisted ventilation immediately after delivery		1,419	1,233	186	0	701	496	92	77	53
Assisted ventilation for more than 6 hours		404	369	35	0	187	148	31	18	20
Surfactant replacement therapy		1,877	1,643	234	0	845	677	124	129	102
Suspected neonatal sepsis		30†	27	6	0	16	14	*	0	*
Seizure or serious neurologic dysfunction		80†	67	12	0	28	35	6	6	*
Significant birth injury		398	306	92	0	164	158	10	58	8
Total		0†	*	0	*	0	0	0	0	0
Congenital anomalies of the newborn^c		Spina bifida / Meningocele	10†	12	*	0	6	*	*	0
		Cyanotic congenital heart disease	50†	39	6	0	22	19	0	0
		Congenital diaphragmatic hernia	10†	6	*	0	*	0	*	0
		Omphalocele / Gastroschisis	30†	29	*	0	12	18	*	0
		Limb reduction defect	20†	14	*	0	*	8	*	0
		Cleft lip / palate	78	59	19	0	29	32	0	17
		Down syndrome	50†	42	8	0	18	27	*	*
		Suspected chromosomal disorder	40†	37	6	0	22	18	*	0
		Hypopspadias	20†	12	*	0	10	*	0	*
		Unknown congenital anomalies	120†	71	45	0	43	38	*	29

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ^a Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see Technical Notes for more information; ^b 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.
Correction: In the 2015 report, total congenital anomalies of the newborn was reported as 312 where it should have been 408; Omphalocele/Gastroschisis reported 0 where it should have been 35; Cleft lip/palate reported 0 where it should have been 72.

TABLE 1B-26
**CHANGES FROM 2006 TO 2016 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		
	2006	2016	% Change	2006	2016	% Change	2006	2016	% Change	2006	2016	% Change
Number of births^b	53,121	44,146	-16.9	1,788	1,068	-40.3	43,128	34,516	-20.0	3,074	4,373	42.3
Per 100 births:												
Teenage mother^c	19.4	10.2	-47.5	18.8	11.6	-38.2	4.2	1.6	-61.9	11.0	4.6	-58.4
Unwed mother^d	64.7	65.8	1.7	75.6	75.5	-0.2	17.3	19.7	13.7	38.8	24.9	-35.9
Early prenatal care^e	68.4	61.8	-9.7	58.6	57.7	-1.6	91.3	79.7	-12.8	63.5	59.4	-6.4
0-4 prenatal visits	9.1	9.6	5.9	15.9	21.2	33.1	1.5	2.5	69.0	19.5	12.3	-36.8
C-Section^f	23.7	26.2	10.4	19.3	24.9	29.0	29.6	30.0	1.5	18.6	20.9	12.5
LBW rate	7.5	8.0	6.7	4.8	7.1	48.3	6.6	6.8	2.5	8.6	5.1	-41.0
Newborn intensive care	5.0	7.5	50.7	2.2	7.9	257.5	5.3	6.2	17.0	6.9	5.6	-19.5
Preterm birth < 37 weeks	10.8	9.9	-8.6	7.9	9.1	15.0	10.3	8.3	-19.7	12.4	6.7	-46.0

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 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, 2016**

		Payer for birth					
		TOTAL	AHCCCS ^a	IHS	Private Insurance	Self-pay	Unknown
TOTAL		84,404	44,146	1,070†	34,520†	4,374†	300†
Mother's age group						*	0
<15		50†	44	46	114	70	*
15-17		1,420	1,185	73	435	129	11
18-19		3,916	3,268	271	4,531	835	70
20-24		19,775	14,068	338	10,536	1,399	82
25-29		25,328	12,973				
30-34		21,394	7,879	215	11,961	1,258	81
35-39		10,209	3,725	98	5,788	558	40
40-44		2,125	929	19	1,062	107	8
45+		180†	75	*	85	16	*
Mother's race/ethnicity							
White non-Hispanic		37,762	13,267	96	21,832	2,414	153
Hispanic or Latino		33,874	23,480	65	8,740	1,491	98
Black or African American		4,390†	3,062	*	1,099	206	18
American Indian or Alaska Native		5,030	3,435	901	606	82	6
Asian or Pacific Islander		3,350†	902	*	2,239	180	26
Mother's education							
8th Grade or Less		2,742	2,461	32	130	115	*
Some High School		12,272	10,613	313	955	366	25
High School / GED		21,200	14,941	355	4,967	863	74
Some College		20,033	10,355	251	8,296	1,065	66
Associate Degree		7,165	2,770	51	3,849	474	21
Bachelor's Degree		13,799	2,064	46	10,600	1,032	57
Postgraduate Education		6,519	485	14	5,593	405	22
Unknown		674	457	6	126	53	32
Marital status							
Married		45,553	14,369	250	27,548	3,214	172
Unmarried^b		37,843	29,044	806	6,790	1,087	116
Unknown		1,008	733	12	178	72	13
Weight gain							
Inadequate		19,276	11,186	214	6,830	972	74
Adequate		26,165	12,988	304	11,361	1,434	78
Excessive		38,460	19,694	543	16,183	1,925	115
Unknown		503	278	7	142	42	34
Smoking during pregnancy							
Non-smoker		79,684	40,615	1,001	33,696	4,104	268
Light smoker (less than 10 cigarettes per day)		2,382	1,902	42	363	69	6
Heavy smoker (10 or more cigarettes per day)		1,633	1,314	7	243	65	*
Unknown		705	315	18	214	135	23
Length of gestation							
<37 weeks		7,638	4,360	97	2,854	293	34
37-41 weeks		76,397	39,619	962	31,533	4,035	248
42+ weeks		230†	108	*	92	24	*
Unknown		141	59	6	37	21	18
Weight at birth							
<1,000 grams		492	297	9	160	21	*
1,000-1,499		520†	300	*	197	16	*
1,500-2,499		5,175	2,935	63	1,979	185	13
2,500-3,999		71,613	37,562	884	29,172	3,744	251
4,000+ grams		6,574	3,040	108	3,006	400	20
Unknown		30†	12	0	*	7	10

TABLE 1B-27 (continued)
PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2016

		Payer for birth	
		AHCCCS ^a	IHS
		Private Insurance	Self-pay
Prenatal care		Unknown	Unknown
No care	2,015	1,397	64
1st trimester	58,135	27,277	616
2nd trimester	14,969	10,001	237
3rd trimester	4,897	3,413	108
Unknown	4,388	2,058	43
Prenatal visits			
No visits	2,015	1,397	64
1-4 visits	3,910	2,858	162
5-8 visits	13,035	8,458	291
9-12 visits	38,959	20,015	395
13+ visits	25,229	10,864	143
Unknown	1,256	554	13
Newborn intensive care			
Yes	5,814	3,327	84
No	78,590	40,819	984
Method of delivery			
Vaginal	58,968	31,500	784
C-Section	23,178	11,548	266
Forceps	330†	159	*
Vacuum	1,927	939	13
Unknown	5	0	0
Total	39,665	20,758	482
Induction of labor	24,762	12,993	237
Augmentation of labor	19,400	10,167	291
Cervical cerclage	130†	53	*
Tocolysis	359	180	13
External cephalic version successful	60†	37	*
External cephalic version failed	90†	28	*
Total	17,606	10,027	359
Births with medical risk factors^c			
Pre-existing diabetes	764	469	35
Gestational diabetes	6,417	3,257	149
Pre-existing hypertension	972	520	16
Gestational hypertension	5,263	2,873	103
Eclampsia	160†	103	0
Previous preterm birth	3,444	2,106	55
Other previous poor pregnancy outcome	1,141	624	11
Gonorrhea	250†	218	*
Syphilis	70†	54	*
Chlamydia	2,138	1,710	71
Hepatitis B	121	74	0
Hepatitis C	179	146	9

TABLE 1B-27 (continued)
PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2016

	TOTAL	Payer for birth			
		AHCCCS^a	IHS	Private Insurance	Self-pay
Births with complications of labor and delivery^c					
Total	22,548	11,919	350	8,976	1,225
Premature rupture of the membranes	3,636	1,743	84	1,622	174
Precipitous labor	4,592	2,903	58	1,292	324
Prolonged labor	1,740	789	25	815	106
Breech presentation	3,142	1,402	46	1,531	143
Chorioamnionitis	1,779	896	17	770	90
Meconium staining of the amniotic fluid	6,303	3,511	98	2,337	345
Fetal intolerance	4,967	2,551	81	2,071	231
Maternal transfusion	378	231	23	101	21
Third or fourth degree perineal laceration	390	143	8	216	22
Ruptured uterus	30†	26	0	6	*
Unplanned Hysterectomy	40†	25	*	7	*
Admission to intensive care unit	130†	81	*	38	6
Unplanned surgery following delivery	154	85	7	45	14
Total	3,738	2,062	66	1,445	154
Assisted ventilation immediately after delivery	2,507	1,396	43	959	102
Assisted ventilation for more than 6 hours	1,419	738	18	606	53
Surfactant replacement therapy	400†	206	*	185	9
Suspected neonatal sepsis	1,877	1,006	34	757	75
Seizure or serious neurologic dysfunction	30†	17	0	13	*
Significant birth injury	80†	53	*	18	6
Total	398	232	23	120	18
Anencephalus	0†	*	0	0	0
Spina bifida / Meningocele	10†	9	*	*	0
Cyanotic congenital heart disease	50†	21	*	19	*
Congenital diaphragmatic hernia	10†	6	*	0	0
Omphalocele / Gastroschisis	30†	21	0	11	*
Limb reduction defect	20†	10	*	*	0
Cleft lip / palate	80†	47	6	21	*
Down syndrome	50†	24	*	23	*
Suspected chromosomal disorder	40†	21	0	18	*
Hypospadias	20†	7	0	8	0
Unknown congenital anomalies	120†	74	11	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 The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program; ^b 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.

Correction: In the 2015 report, total congenital anomalies of the newborn was reported as 408; Omphalocele/Gastroschisis reported 0 where it should have been 35; Cleft lip/palate reported 0 where it should have been 72.

TABLE 1B-28
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND PARTY PAYING FOR THE DELIVERY,
ARIZONA, 2016

		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	AHCCCS	44,146	44	1,185	3,268	14,068	12,973	7,879	3,725	929	75
	IHS	1,070†	*	46	73	271	338	215	98	19	*
	Private insurance	34,520†	*	114	435	4,531	10,536	11,961	5,788	1,062	85
	Self-pay	4,370†	*	70	129	835	1,399	1,258	558	107	16
	Unknown	300†	0	*	11	70	82	81	40	8	*
	TOTAL	84,404	50†	1,420	3,916	19,775	25,328	21,394	10,209	2,125	180†
White non-Hispanic	AHCCCS	13,267	7	220	823	4,176	4,210	2,499	1,058	236	38
	IHS	100†	0	*	*	20	36	22	10	*	*
	Private insurance	21,830†	*	44	183	2,439	6,524	8,060	3,832	694	55
	Self-pay	2,414	0	16	43	390	798	768	327	66	6
	Unknown	150†	0	*	*	31	41	40	29	*	*
	TOTAL	37,762	10†	280†	1,060†	7,056	11,609	11,389	5,256	1,000†	100†
Hispanic or Latino	AHCCCS	23,480	29	767	1,942	7,726	6,472	3,975	2,003	537	29
	IHS	70†	0	*	*	20	20	17	*	*	0
	Private insurance	8,740†	*	57	201	1,669	2,937	2,405	1,231	222	16
	Self-pay	1,490†	*	49	75	368	459	343	163	28	*
	Unknown	100†	0	*	*	27	25	30	6	*	*
	TOTAL	33,874	30†	880†	2,230†	9,810	9,913	6,770	3,400†	790†	50†
Black or African American	AHCCCS	3,060†	*	72	203	958	976	537	250	60	*
	IHS	0†	0	0	0	*	0	*	0	0	0
	Private insurance	1,100†	*	8	20	175	308	352	189	40	6
	Self-pay	210†	0	*	6	40	67	55	30	*	*
	Unknown	20†	0	0	*	6	*	*	0	0	0
	TOTAL	4,390†	0†	80†	232	1,180†	1,356	950†	469	110†	10†
American Indian or Alaska Native	AHCCCS	3,440†	6	117	270	1,016	1,039	619	298	67	*
	IHS	900†	*	44	65	230	282	173	87	15	0
	Private insurance	610†	0	*	22	122	176	176	86	21	0
	Self-pay	80†	0	*	*	20	29	13	11	*	0
	Unknown	10†	0	0	0	*	*	0	*	0	0
	TOTAL	5,030†	10†	170†	360†	1,391	1,527	981	484	100†	0†
Asian or Pacific Islander	AHCCCS	900†	0	9	30	192	276	249	116	29	*
	IHS	0†	0	0	0	0	0	*	0	0	*
	Private insurance	2,240†	0	*	9	126	591	968	450	85	8
	Self-pay	180†	0	*	0	17	46	79	27	7	*
	Unknown	30†	0	0	0	*	10	7	*	*	0
	TOTAL	3,350†	0	10†	39	338	923	1,300†	596	124	10†

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

TABLE 1B-29
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND TRIMESTER
OF PREGNANCY PRENATAL CARE BEGAN, ARIZONA, 2016

		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	No care	2,020†	*	70	141	589	551	414	200	39	9
	1st trimester	58,135	17	671	2,176	12,581	17,926	15,798	7,392	1,445	129
	2nd trimester	14,969	15	435	1,013	4,218	4,211	3,050	1,599	405	23
	3rd trimester	4,897	15	180	403	1,416	1,366	950	455	105	7
	Unknown	4,390†	*	64	183	971	1,274	1,182	563	131	15
	TOTAL	84,404	50†	1,420	3,916	19,775	25,328	21,394	10,209	2,125	183
White non- Hispanic	No care	537	0	8	25	132	154	137	62	10	9
	1st trimester	28,210†	*	166	659	4,908	8,749	8,852	4,066	745	65
	2nd trimester	5,260†	*	79	235	1,233	1,559	1,344	643	153	11
	3rd trimester	1,480†	*	21	79	387	450	355	155	27	*
	Unknown	2,270†	*	9	58	396	697	701	330	67	13
	TOTAL	37,762	10†	283	1,056	7,056	11,609	11,389	5,256	1,002	100†
Hispanic or Latino	No care	1,140†	*	46	93	355	310	210	98	23	0
	1st trimester	21,660	10	396	1,182	5,964	6,672	4,640	2,270	487	39
	2nd trimester	7,040	8	269	595	2,256	1,870	1,184	664	186	8
	3rd trimester	2,520†	10	123	255	799	643	410	217	56	*
	Unknown	1,520†	*	43	102	436	418	326	155	38	*
	TOTAL	33,874	30†	877	2,227	9,810	9,913	6,770	3,404	790	50†
Black or African American	No care	100†	0	*	8	29	28	18	8	*	0
	1st trimester	2,756	0	40	128	682	882	647	307	61	9
	2nd trimester	960†	*	28	62	291	279	174	96	21	*
	3rd trimester	350†	*	7	23	109	106	56	32	12	0
	Unknown	230†	0	*	11	69	61	55	26	9	0
	TOTAL	4,390†	0†	80†	232	1,180	1,356	950	469	110†	10†
American Indian or Alaska Native	No care	200†	*	13	14	65	51	32	24	*	0
	1st trimester	3,050†	*	64	186	822	963	650	294	68	*
	2nd trimester	1,180†	*	54	109	346	343	190	115	19	0
	3rd trimester	410†	*	28	42	106	117	75	32	8	0
	Unknown	183	0	8	11	52	53	34	19	6	0
	TOTAL	5,030†	10†	167	362	1,391	1,527	981	484	100†	0†
Asian or Pacific Islander	No care	40†	0	0	*	8	8	17	8	*	0
	1st trimester	2,450†	0	*	21	205	660	1,009	455	84	13
	2nd trimester	540†	0	*	12	92	160	158	81	26	*
	3rd trimester	150†	0	*	*	15	50	54	19	*	0
	Unknown	180†	0	*	*	18	45	66	33	11	0
	TOTAL	3,350	0	10†	40†	338	923	1,304	596	120†	10†

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

TABLE 1B-30
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND NUMBER OF PRENATAL VISITS,
ARIZONA, 2016

		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	No visits	2,020†	*	70	141	589	551	414	200	39	9
	1-4 visits	3,910	8	141	293	1,156	1,125	727	371	83	6
	5-8 visits	13,035	14	349	859	3,676	3,785	2,799	1,256	283	14
	9-12 visits	38,959	20	592	1,769	9,000	11,873	10,065	4,695	871	74
	13+ visits	25,229	10	238	797	5,079	7,662	7,069	3,503	800	71
	Unknown	1,256	0	30	57	275	332	320	184	49	9
	TOTAL	84,404	50†	1,420	3,916	19,775	25,328	21,394	10,209	2,125	183
White non-Hispanic	No visits	537	0	8	25	132	154	137	62	10	9
	1-4 visits	1,070†	*	14	64	246	324	258	134	25	*
	5-8 visits	4,460†	*	64	191	1,063	1,334	1,174	512	107	10
	9-12 visits	17,630†	*	130	480	3,254	5,515	5,404	2,387	427	34
	13+ visits	13,400†	*	63	284	2,259	4,097	4,220	2,032	404	38
	Unknown	670†	0	*	12	102	185	196	129	29	8
	TOTAL	37,762	10†	283	1,056	7,056	11,609	11,389	5,256	1,002	100†
Hispanic or Latino	No visits	1,140†	*	46	93	355	310	210	98	23	0
	1-4 visits	1,910†	*	91	177	619	513	305	159	38	*
	5-8 visits	6,050†	10	207	492	1,936	1,678	1,096	510	121	*
	9-12 visits	15,649	12	363	1,028	4,517	4,665	3,154	1,569	316	25
	13+ visits	8,740†	*	152	402	2,266	2,649	1,929	1,032	287	21
	Unknown	390†	0	18	35	117	98	76	36	*	*
	TOTAL	33,874	30†	877	2,227	9,810	9,913	6,770	3,404	790	50†
Black or African American	No visits	100†	0	*	8	29	28	18	8	*	0
	1-4 visits	280†	0	8	16	98	80	45	25	*	*
	5-8 visits	852	0	20	58	264	261	158	71	20	0
	9-12 visits	1,950†	*	35	96	507	605	443	219	37	6
	13+ visits	1,130†	*	13	49	251	362	269	140	39	*
	Unknown	80†	0	*	*	31	20	17	6	*	0
	TOTAL	4,390†	0†	80†	232	1,180	1,356	950	469	110†	10†
American Indian or Alaska Native	No visits	200†	*	13	14	65	51	32	24	*	0
	1-4 visits	550†	*	26	34	181	176	83	39	11	0
	5-8 visits	1,210†	*	55	108	333	364	229	99	17	0
	9-12 visits	2,060†	*	57	149	565	629	401	212	37	*
	13+ visits	960†	*	10	52	230	293	228	107	33	*
	Unknown	60†	0	6	*	17	14	8	*	*	0
	TOTAL	5,030†	10†	167	362	1,391	1,527	981	484	100†	0†
Asian or Pacific Islander	No visits	40†	0	0	*	8	8	17	8	*	0
	1-4 visits	100†	0	*	*	12	32	36	14	*	0
	5-8 visits	470†	0	*	10	80	148	142	64	18	*
	9-12 visits	1,671	0	7	16	157	459	663	308	54	7
	13+ visits	1,002	0	0	10	73	261	423	192	37	6
	Unknown	65	0	0	0	8	15	23	10	9	0
	TOTAL	3,350	0	10†	40†	338	923	1,304	596	120†	10†

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

TABLE 1B-31
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2016

		Prenatal care						Visits		
		TOTAL	No care	1st trimester	2nd trimester	3rd trimester	Un-known	Less than 5	5 or more	Un-known
Mother's age group		84,404	2,020†	58,135	14,969	4,900†	4,390†	5,925	77,223	1,260†
<15		50†	*	17	15	15	*	10	44	0
15-17		1,420	70	671	435	180	64	211	1,179	30
18-19		3,916	141	2,176	1,013	403	183	434	3,425	57
20-24		19,775	589	12,581	4,218	1,416	971	1,745	17,755	275
25-29		25,328	551	17,926	4,211	1,366	1,274	1,676	23,320	332
30-34		21,394	414	15,798	3,050	950	1,182	1,141	19,933	320
35-39		10,209	200	7,392	1,599	455	563	571	9,454	184
40-44		2,125	39	1,445	405	105	131	122	1,954	49
45+		183	9	129	23	7	15	15	159	9
Payer for birth		44,146	1,397	27,277	10,001	3,413	2,058	2,858	39,337	554
AHCCCS		1,068	64	616	237	108	43	162	829	13
IHS		34,516	273	27,493	3,864	954	1,932	602	33,102	539
Private insurance		4,373	262	2,599	832	411	269	277	3,744	90
Self-pay		301	19	150	35	11	86	11	211	60
Unknown		2,742	149	1,419	736	312	126	380	2,329	33
Mother's education		12,272	633	6,818	3,090	1,191	540	1,591	10,407	174
8th Grade or Less		21,200	578	13,822	4,373	1,385	1,042	1,746	19,174	280
Some High School		20,033	323	14,315	3,423	928	1,044	1,020	18,766	247
High School / GED		7,165	98	5,334	1,064	310	359	342	6,720	103
Some College		13,799	112	10,894	1,488	488	817	419	13,152	228
Associate Degree		6,519	41	5,229	670	202	377	170	6,214	135
Bachelor's Degree		674	81	304	125	81	83	157	461	56
Postgraduate Education		45,553	579	34,120	6,449	1,960	2,445	1,905	42,992	656
Unknown		37,843	1,340	23,458	8,341	2,825	1,879	3,820	33,454	569
Weight gain		1,008	96	557	179	112	64	200	777	31
Inadequate		19,276	667	12,356	3,611	1,506	1,136	1,947	16,936	393
Marital status	Married	26,165	544	18,323	4,625	1,361	1,312	1,657	24,157	351
Unmarried^a		38,460	707	27,288	6,689	1,995	1,781	2,191	35,826	443
Unknown		503	97	168	44	35	159	130	304	69
Smoking during pregnancy	Non-smoker	79,684	1,688	55,457	13,942	4,485	4,112	5,133	73,403	1,148
	Light smoker (less than 10 cigarettes per day)	2,382	159	1,363	536	212	112	398	1,944	40
	Heavy smoker (10 or more cigarettes per day)	2,382	159	1,363	536	212	112	286	1,316	31
	Unknown	1,633	123	908	365	145	92	108	560	37

TABLE 1B-31 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PREGNATAL CARE, ARIZONA, 2016

		Prenatal care					Visits			
		TOTAL	No care	1st trimester	2nd trimester	3rd trimester	Un-known	Less than 5	5 or more	Un-known
Length of gestation		705	45	407	126	55	72	1,161	6,242	235
<37 weeks		76,397	1,531	52,965	13,654	4,574	3,673	4,704	70,741	952
37-41 weeks		228	15	93	67	32	21	27	198	*
42+ weeks		141	26	0	39	0	76	33	42	66
Weight at birth		492	50	306	71	0	65	178	287	27
<1,000 grams		519	41	338	84	11	45	113	385	21
1,000-1,499		5,175	217	3,438	914	266	340	602	4,439	134
1,500-2,499		71,613	1,584	49,388	12,803	4,257	3,581	4,692	65,931	990
2,500-3,999		6,574	119	4,655	1,092	363	345	334	6,168	72
4,000+ grams		30†	*	10	*	0	12	6	13	12
Unknown		5,814	291	3,806	1,058	347	312	773	4,877	164
Newborn intensive care		78,590	1,724	54,329	13,911	4,550	4,076	5,152	72,346	1,092
Yes		58,968	1,480	40,221	10,716	3,447	3,104	4,228	53,890	850
No		23,178	480	16,349	3,845	1,309	1,195	1,546	21,258	374
Method of delivery		330†	*	222	68	16	17	20	301	*
Vaginal		1,927	52	1,343	340	125	67	131	1,774	22
C-Section		5	0	0	0	0	*	0	0	*
Forceps										
Vacuum										
Unknown										
Obstetric procedures^b		39,665	903	27,151	7,548	2,505	1,558	2,611	36,674	380
Total		24,762	520	17,211	4,599	1,531	901	1,441	23,131	190
Induction of labor		19,400	536	12,921	3,803	1,292	848	1,508	17,675	217
Augmentation of labor		130†	*	106	13	*	*	7	119	*
Cervical cerclage		359	20	252	63	20	*	68	290	*
Tocolysis		60†	*	46	11	*	*	6	54	*
External cephalic version successful		90†	*	59	21	*	*	*	84	0
External cephalic version failed		17,606	426	12,172	3,181	1,079	748	1,359	16,035	212
Total		764	18	550	130	38	28	57	702	*
Pre-existing diabetes		6,417	62	4,690	1,053	314	298	269	6,071	77
Gestational diabetes		972	18	710	165	46	33	59	901	12
Pre-existing hypertension		5,263	141	3,634	967	290	231	406	4,786	71
Gestational hypertension		160†	*	108	18	12	12	14	136	*
Eclampsia		3,444	141	2,383	602	204	114	384	3,021	39
Previous preterm birth		1,141	29	799	194	68	51	119	1,009	13
Other previous poor pregnancy outcome		249	9	147	54	27	12	37	210	*
Gonorrhea		70†	*	39	11	11	*	16	52	0
Syphilis		2,138	69	1,208	562	239	60	271	1,851	16
Chlamydia		121	6	66	36	7	6	14	105	*
Hepatitis B		179	16	82	45	30	6	43	135	*
Hepatitis C										

continued)

TABLE 1B-31 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PREGNATAL CARE, ARIZONA, 2016

	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	22,548	723	15,017	4,146	1,492	1,170	1,964	20,284	300
Premature rupture of the membranes	3,636	165	2,519	613	164	175	405	3,191	40
Precipitous labor	4,592	216	2,753	982	410	231	528	3,988	76
Prolonged labor	1,740	33	1,224	293	77	113	79	1,644	17
Breech presentation	3,142	99	2,190	530	156	167	301	2,782	59
Chorioamnionitis	1,779	49	1,210	334	118	68	133	1,631	15
Meconium staining of the amniotic fluid	6,303	210	4,033	1,187	466	407	562	5,676	65
Fetal intolerance	4,967	105	3,452	884	303	223	302	4,589	76
Maternal transfusion	378	26	234	62	40	16	71	297	10
Third or fourth degree perineal laceration	390	7	275	79	22	7	21	364	*
Ruptured uterus	30†	0	24	*	*	*	0	32	*
Unplanned Hysterectomy	40†	*	22	9	*	*	*	31	*
Admission to intensive care unit	129	7	78	23	15	6	24	104	*
Unplanned surgery following delivery	150†	*	111	25	8	7	17	132	*
Total	3,738	147	2,543	649	197	202	426	3,219	93
Assisted ventilation immediately after delivery	2,507	115	1,671	442	120	159	329	2,106	72
Assisted ventilation for more than 6 hours	1,419	59	988	250	45	77	200	1,177	42
Surfactant replacement therapy	404	26	269	66	9	34	80	301	23
Suspected neonatal sepsis	1,877	71	1,331	305	90	80	207	1,617	53
Seizure or serious neurologic dysfunction	30†	*	21	7	0	*	8	24	*
Significant birth injury	80†	*	49	18	7	*	8	69	*
Total	398	19	236	90	22	31	53	333	12
Congenital anomalies of the newborn^b									
Anencephalus	0†	0	*	*	0	0	*	*	0
Spina bifida / Meningocele	10†	*	10	*	*	0	*	12	0
Cyanotic congenital heart disease	50†	*	27	11	*	*	*	41	*
Congenital diaphragmatic hernia	10†	0	*	*	0	*	*	6	*
Omphalocele / Gastroschisis	30†	0	17	11	*	*	*	27	*
Limb reduction defect	20†	0	7	6	*	0	*	13	0
Cleft lip / palate	80†	*	53	19	*	*	6	70	*
Down syndrome	50†	*	35	8	*	*	*	49	0
Suspected chromosomal disorder	40†	*	28	9	*	*	*	39	*
Hypopspadias	20†	0	10	*	*	0	*	14	0
Unknown congenital anomalies	120†	12	56	26	*	19	27	84	*

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; ^b The coding of marital status has changed as such unmarried category includes divorced; ^b Total birth where an obstetric procedure; complication of labor and delivery; abnormal condition of the newborn; or a congenital anomaly of the newborn was identified.

Correction: In the 2015 report, total congenital anomalies of the newborn was reported as 312 where it should have been 408; Omphalocele/Gastroschisis reported 0 where it should have been 35; Cleft lip/palate reported 0 where it should have been 72.

TABLE 1B-32
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2016

	TOTAL	Weight at birth			Length of gestation		
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks
TOTAL	84,404	6,190†	78,187	30†	7,638	76,397	230†
Mother's age group					9	45	0
<15	50†	*	50	0	115	1,300	0
15-17	1,420	112	1,307	*	324	3,567	13
18-19	3,916	315	3,601	0	1,665	18,038	47
20-24	19,775	1,398	18,371	6	2,089	23,130	69
25-29	25,328	1,733	23,585	10	1,968	19,327	60
30-34	21,394	1,532	19,855	7	1,130	9,036	30
35-39	10,209	835	9,370	*	296	1,818	7
40-44	2,125	217	1,907	*	42	136	*
45+	180†	40	141	*	4,360	39,619	108
Payer for birth					97	962	*
AHCCCS	44,146	3,532	40,602	12	31,533	92	37
IHS	1,070†	76	992	0	4,035	24	21
Private insurance	34,516	2,336	32,178	*	2,854	31,533	92
Self-pay	4,373	222	4,144	7	2,222	11,002	23
Unknown	300†	20	271	10	1,983	19,127	52
Mother's education					1,780	18,176	46
8th Grade or Less	2,742	227	2,515	0	268	2,457	10
Some High School	12,272	1,040	11,228	*	1,780	18,176	46
High School / GED	21,200	1,568	19,626	6	6,515	14	*
Some College	20,033	1,426	18,596	11	593	5,896	20
Associate Degree	7,165	513	6,649	*	1,065	12,663	58
Bachelor's Degree	13,799	859	12,940	0	1,065	12,663	58
Postgraduate Education	6,519	476	6,043	0	593	5,896	20
Unknown	670†	77	590	7	96	561	*
Marital status					561	*	12
Married	45,553	3,074	42,464	15	3,832	41,539	122
Unmarried^a	37,843	2,979	34,853	11	3,639	34,032	103
Unknown	1,010†	133	870	*	167	826	*
Inadequate					1,759	2,396	10
Adequate	26,165	1,759	24,396	10	2,164	23,893	66
Excessive	38,460	2,198	36,259	*	3,023	35,293	115
Unknown	500†	60	434	9	82	398	*
Smoking during pregnancy					7,033	72,327	210
Non-smoker	79,684	5,602	74,060	22	16,813	46	48
Light smoker (less than 10 cigarettes per day)	2,382	274	2,106	*	278	2,085	11
Heavy smoker (10 or more cigarettes per day)	1,630†	213	1,420	0	217	1,403	*
Unknown	710†	97	601	7	110	582	*

TABLE 1B-32 (continued)

SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2016

		TOTAL	<2,500 grams	2,500+ grams	Weight at birth	<37 weeks	37-41 weeks	42+ weeks	Length of gestation	Unknown
Prenatal care	No care	2,015	308	1,703	*	443	1,531	15	26	
	1st trimester	58,135	4,082	54,043	10	5,077	52,965	93	0	
	2nd trimester	14,969	1,069	13,895	*	1,209	13,654	67	39	
	3rd trimester	4,897	277	4,620	0	291	4,574	32	0	
Unknown		4,388	450	3,926	12	618	3,673	21	76	
Prenatal visits	No visits	2,015	308	1,703	*	443	1,531	15	26	
	1-4 visits	3,910	585	3,323	*	718	3,173	12	7	
	5-8 visits	13,035	1,563	11,470	*	1,927	11,058	36	14	
	9-12 visits	38,959	2,303	36,648	8	2,866	36,019	60	14	
	13+ visits	25,229	1,245	23,981	*	1,449	23,664	102	14	
	Unknown	1,260†	182	1,062	12	235	952	*	66	
Newborn intensive care	Yes	5,814	2,674	3,137	*	3,123	2,668	11	12	
	No	78,590	3,512	75,050	28	4,515	73,729	217	129	
Method of delivery	Vaginal	58,968	3,094	55,851	23	3,987	54,727	142	112	
	C-Section	23,178	2,995	20,181	*	3,556	19,519	80	23	
	Forceps	330†	15	311	0	19	306	*	0	
	Vacuum	1,930†	82	1,844	*	76	1,845	*	*	
	Unknown	5	0	0	*	0	0	0	*	
Obstetric procedures^b	Total	39,665	2,268	37,395	2	2,598	36,878	152	37	
	Induction of labor	24,762	1,519	23,241	*	1,468	23,152	122	20	
	Augmentation of labor	19,400	801	18,598	*	1,202	18,108	72	18	
	Cervical cerclage	128	37	91	0	47	81	0	0	
	Tocolysis	359	207	152	0	226	132	0	*	
	External cephalic version successful	60†	*	56	0	*	57	0	0	
	External cephalic version failed	90†	6	80	0	*	81	0	*	
	Total	17,606	2,347	15,254	5	3,067	14,510	14	15	
Births with medical risk factors^b	Pre-existing diabetes	764	85	679	0	183	581	0	0	
	Gestational diabetes	6,420†	552	5,862	*	837	5,573	*	*	
	Pre-existing hypertension	972	165	807	0	208	763	0	*	
	Gestational hypertension	5,260†	1,050	4,211	*	1,244	4,011	*	*	
	Eclampsia	155	59	96	0	68	87	0	0	
	Previous preterm birth	3,440†	685	2,757	*	1,009	2,429	*	*	
	Other previous poor pregnancy outcome	1,141	191	949	*	221	919	0	*	
	Gonorrhea	250†	21	228	0	24	224	*	0	
	Syphilis	68	6	62	0	6	62	0	0	
	Chlamydia	2,140†	166	1,972	0	195	1,933	*	7	
	Hepatitis B	121	11	110	0	8	113	0	0	
	Hepatitis C	179	34	145	0	31	148	0	0	

TABLE 1B-32 (continued)

SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2016

	TOTAL	Weight at birth		Length of gestation		
		<2,500 grams	2,500+ grams	<37 weeks	37-41 weeks	42+ weeks
Births with complications of labor and delivery^b						
Total	22,548	2,504	20,033	11	3,078	19,342
Premature rupture of the membranes	3,636	812	2,822	*	1,159	2,459
Precipitous labor	4,592	386	4,201	*	488	4,079
Prolonged labor	1,740	117	1,622	*	158	1,566
Breech presentation	3,140†	860	2,282	0	991	2,142
Chorioamnionitis	1,779	123	1,656	0	135	1,634
Meconium staining of the amniotic fluid	6,303	269	6,032	*	288	5,976
Fetal intolerance	4,967	507	4,459	*	547	4,377
Maternal transfusion	380†	75	303	0	90	283
Third or fourth degree perineal laceration	390	8	382	0	10	378
Ruptured uterus	30†	*	29	0	8	25
Unplanned Hysterectomy	40†	6	31	0	10	26
Admission to intensive care unit	130†	38	91	0	49	78
Unplanned surgery following delivery	150†	18	136	0	25	127
Total	3,738	1,490	2,248	0	1,727	1,992
Assisted ventilation immediately after delivery	2,507	1,136	1,371	0	1,270	1,224
Assisted ventilation for more than 6 hours	1,419	847	572	0	961	453
Surfactant replacement therapy	400†	345	59	0	352	47
Suspected neonatal sepsis	1,880†	783	1,094	0	925	942
Seizure or serious neurologic dysfunction	33	7	26	0	6	27
Significant birth injury	79	8	71	0	10	68
Total	400†	117	280	1	121	271
Congenital anomalies of the newborn^b						
Anencephalus	0†	*	0	*	0	0
Spina bifida / Meningocele	10†	*	10	*	9	0
Cyanotic congenital heart disease	45	14	31	0	17	28
Congenital diaphragmatic hernia	10†	*	6	*	7	0
Omphalocele / Gastroschisis	33	15	18	0	18	15
Limb reduction defect	20†	*	12	0	*	14
Cleft lip / palate	78	10	68	0	9	69
Down syndrome	50	14	36	0	12	38
Suspected chromosomal disorder	43	18	25	0	18	25
Hypopadias	20†	*	13	0	*	13
Unknown congenital anomalies	120†	39	76	*	42	68

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 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.

Correction: In the 2015 report, total congenital anomalies of the newborn was reported as 312 where it should have been 408; Omphalocele/Gastroschisis reported 0 where it should have been 35; Cleft lip/palate reported 0 where it should have been 72.

TABLE 1B-33
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2016

		Mother's age group									
		TOTAL	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
TOTAL		84,404	54	1,420	3,916	19,775	25,328	21,394	10,209	2,125	183
Mother's race/ethnicity											
White non-Hispanic		37,762	8	283	1,056	7,056	11,609	11,389	5,256	1,002	103
Hispanic or Latino		33,874	32	877	2,227	9,810	9,913	6,770	3,404	790	51
Black or African American		4,390†	*	81	232	1,180	1,356	950	469	105	12
American Indian or Alaska Native		5,030†	11	167	362	1,391	1,527	981	484	104	*
Asian or Pacific Islander		3,350†	0	12	39	338	923	1,304	596	124	14
Payer for birth											
AHCCCS		44,146	44	1,185	3,268	14,068	12,973	7,879	3,725	929	75
IHS		1,070†	*	46	73	271	338	215	98	19	*
Private insurance		34,520†	*	114	435	4,531	10,536	11,961	5,788	1,062	85
Self-pay		4,370†	*	70	129	835	1,399	1,258	558	107	16
Unknown		300†	0	*	11	70	82	81	40	8	*
Mother's education											
8th Grade or Less		2,742	32	112	102	437	587	725	547	189	11
Some High School		12,272	21	1,158	1,647	3,861	2,812	1,659	892	208	14
High School / GED		21,200†	0	130	1,633	7,504	6,464	3,636	1,504	311	18
Some College		20,030†	0	12	469	5,825	7,054	4,369	1,891	386	27
Associate Degree		7,170†	0	0	34	1,152	2,593	2,249	945	183	9
Bachelor's Degree		13,800†	0	0	*	811	4,392	5,569	2,524	469	33
Postgraduate Education		6,520†	0	0	0	60	1,248	3,038	1,805	331	37
Unknown		670†	*	8	30	125	178	149	101	48	34
Marital status											
Married		45,550†	0	61	473	6,323	14,530	15,282	7,348	1,431	105
Unmarried ^a		37,843	54	1,355	3,427	13,288	10,498	5,868	2,678	635	40
Unknown		1,010†	0	*	16	164	300	244	183	59	38
Weight gain											
Inadequate		19,276	22	406	971	4,698	5,726	4,597	2,296	518	42
Adequate		26,165	10	427	1,104	5,765	7,907	6,962	3,264	673	53
Excessive		38,460	22	578	1,805	9,181	11,553	9,722	4,597	919	83
Unknown		500†	0	9	36	131	142	113	52	15	*
Smoking during pregnancy											
Non-smoker		79,684	54	1,372	3,706	18,412	23,848	20,355	9,739	2,036	162
Light smoker (less than 10 cigarettes per day)		2,380†	0	28	121	743	747	467	226	43	7
Heavy smoker (10 or more cigarettes per day)		1,630†	0	7	51	439	518	419	168	21	10
Unknown		710†	0	13	38	181	215	153	76	25	*
Length of gestation											
<37 weeks		7,638	9	115	324	1,665	2,089	1,968	1,130	296	42
37-41 weeks		76,397	45	1,300	3,567	18,038	23,130	19,327	9,036	1,818	136
42+ weeks		230†	0	0	13	47	69	60	30	7	*
Unknown		140†	0	*	12	25	40	39	13	*	*
Weight at birth											
<1,000 grams		490†	*	*	14	137	121	126	71	16	*
1,000-1,499		520†	*	12	13	107	145	132	85	21	*
1,500-2,499		5,180†	*	95	288	1,154	1,467	1,274	679	180	37
2,500-3,999		71,613	50	1,249	3,415	17,148	21,567	17,908	8,437	1,708	131
4,000+ grams		6,570†	0	58	186	1,223	2,018	1,947	933	199	10
Unknown		30†	0	*	0	6	10	7	*	*	*

(continued)

TABLE 1B-33
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2016

		Mother's age group									
		TOTAL	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
Prenatal care											
No care		2,020†	*	70	141	589	551	414	200	39	9
1st trimester		58,135	17	671	2,176	12,581	17,926	15,798	7,392	1,445	129
2nd trimester		14,969	15	435	1,013	4,218	4,211	3,050	1,599	405	23
3rd trimester		4,897	15	180	403	1,416	1,366	950	455	105	7
Unknown		4,390†	*	64	183	971	1,274	1,182	563	131	15
Prenatal visits											
No visits		2,020†	*	70	141	589	551	414	200	39	9
1-4 visits		3,910	8	141	293	1,156	1,125	727	371	83	6
5-8 visits		13,035	14	349	859	3,676	3,785	2,799	1,256	283	14
9-12 visits		38,959	20	592	1,769	9,000	11,873	10,065	4,695	871	74
13+ visits		25,229	10	238	797	5,079	7,662	7,069	3,503	800	71
Unknown		1,260†	0	30	57	275	332	320	184	49	9
Newborn intensive care											
Yes		5,814	6	114	251	1,287	1,599	1,431	870	212	44
No		78,590	48	1,306	3,665	18,488	23,729	19,963	9,339	1,913	139
Method of delivery											
Vaginal		58,968	44	1,173	3,136	14,946	18,011	14,137	6,239	1,189	93
C-Section		23,180†	*	186	634	4,233	6,665	6,726	3,754	892	83
Forceps		330†	*	14	21	63	94	92	32	8	*
Vacuum		1,930†	*	47	125	533	558	437	184	35	*
Unknown		10†	0	0	0	0	0	*	0	*	*
Obstetric procedures^b											
Total		39,665	24	727	2,175	10,081	11,802	9,349	4,466	958	83
Induction of labor		24,762	15	401	1,260	6,062	7,212	5,965	3,065	717	65
Augmentation of labor		19,400	12	403	1,158	5,200	5,901	4,414	1,939	350	23
Cervical cerclage		130†	0	*	0	30	34	31	23	7	*
Tocotysis		360†	0	*	24	87	114	68	48	11	*
External cephalic version successful		60†	0	0	*	7	19	18	9	*	0
External cephalic version failed		90†	0	*	*	16	26	23	15	*	0
Total		17,606	12	243	730	3,569	4,749	4,697	2,838	695	73
Births with medical risk factors^b											
Pre-existing diabetes		760†	0	*	14	103	194	220	165	59	*
Gestational diabetes		6,420†	*	26	118	843	1,667	2,010	1,375	342	33
Pre-existing hypertension		970†	0	8	9	122	188	305	272	60	8
Gestational hypertension		5,260†	*	84	261	1,196	1,417	1,316	761	201	23
Eclampsia		160†	0	6	7	31	40	42	26	*	0
Previous preterm birth		3,440†	*	*	46	546	1,071	1,046	560	154	15
Other previous poor pregnancy outcome		1,140†	0	*	20	175	327	348	212	51	6
Gonorrhea		250†	0	15	34	92	60	27	12	8	*
Syphilis		70†	0	*	0	18	23	15	8	*	0
Chlamydia		2,140†	*	124	313	931	505	175	61	21	*
Hepatitis B		120†	0	*	*	23	30	35	26	*	*
Hepatitis C		180†	0	0	*	36	68	42	25	*	*

(continued)

TABLE 1B-33
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2016

	TOTAL	Mother's age group								
		<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	22,548	17	407	1,201	5,461	6,631	5,522	2,664	583	62
Premature rupture of the membranes	3,640†	*	60	199	877	1,095	877	425	87	15
Precipitous labor	4,590†	*	82	223	1,007	1,334	1,189	610	138	*
Prolonged labor	1,740†	*	34	100	475	531	379	177	36	*
Breech presentation	3,140†	*	21	75	574	849	938	528	139	17
Chorioamnionitis	1,780†	*	61	153	568	501	337	132	23	*
Meconium staining of the amniotic fluid	6,300†	*	152	359	1,605	1,984	1,454	623	114	9
Fetal intolerance	4,970†	*	77	300	1,300	1,436	1,158	562	112	17
Maternal transfusion	380†	0	11	25	84	93	90	55	15	*
Third or fourth degree perineal laceration	390†	*	10	16	101	126	94	35	7	0
Ruptured uterus	30†	0	0	0	6	9	10	*	*	0
Unplanned Hysterectomy	40†	0	0	0	*	11	9	9	*	*
Admission to intensive care unit	130†	0	*	8	29	26	32	21	8	*
Unplanned surgery following delivery	150†	0	*	*	32	41	44	22	7	*
Total	3,740†	5	79	188	903	1,040	872	519	108	24
Assisted ventilation immediately after delivery	2,510†	*	46	96	600	688	601	370	86	16
Assisted ventilation for more than 6 hours	1,420†	*	29	49	317	388	348	217	54	13
Surfactant replacement therapy	400†	*	7	15	83	108	98	68	16	6
Suspected neonatal sepsis	1,880†	*	46	111	458	518	426	257	43	17
Seizure or serious neurologic dysfunction	30†	*	*	*	9	7	7	*	0	*
Significant birth injury	80†	0	*	*	21	20	19	8	*	*
Total	400†	1	11	24	96	107	84	51	20	4
Congenital anomalies of the newborn^b										
Anencephalus	0†	0	0	*	0	*	0	*	0	0
Spina bifida / Meningocele	10†	0	0	0	*	6	*	*	*	0
Cyanotic congenital heart disease	50†	0	0	*	10	13	12	7	*	0
Congenital diaphragmatic hernia	10†	0	0	*	*	*	0	0	0	0
Omphalocele / Gastroschisis	30†	0	*	*	10	8	6	*	0	0
Limb reduction defect	20†	0	*	0	6	*	*	*	0	0
Cleft lip / palate	80†	0	*	*	23	23	15	8	*	0
Down syndrome	50†	0	*	0	8	8	8	17	7	*
Suspected chromosomal disorder	40†	0	*	*	8	6	11	9	7	*
Hypospadias	20†	0	*	*	6	*	*	*	0	*
Unknown congenital anomalies	120†	*	*	12	26	34	24	10	*	*

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

Correction: In the 2015 report, total congenital anomalies of the newborn was reported as 312 where it should have been 408; Omphalocele/Gastroschisis reported 0 where it should have been 35; Cleft lip/palate reported 0 where it should have been 72.

TABLE 1B-34
BIRTHS WITH CONGENITAL ANOMALIES MENTIONED ON BIRTH CERTIFICATE BY MOTHER'S RACE/ETHNICITY AND CHILD'S GENDER, ARIZONA, 2016

	All groups		White, non-Hispanic		Hispanic or Latino		Black or African American		American Indian or Alaska Native		Asian or Pacific Islander	
	Total	Male	Total	Male	Total	Male	Total	Male	Total	Male	Total	Male
Total	393	216	182	164	88	76	158	82	76	10	4	6
Anencephalus	0†	*	0†	*	0†	*	0	*	0	0	0	0
Spina bifida / Meningocele	14	7	7	10†	*	*	10†	*	*	0†	0	*
Cyanotic congenital heart disease	45	22	23	22	11	11	19	9	10	0	0	*
Congenital diaphragmatic hernia	10†	*	0†	*	0†	*	0	*	0	0†	0	*
Omphalocele / Gastroschisis	33	16	17	10†	*	7	18	9	9	0†	*	0†
Limb reduction defect	20†	11	*	10†	*	*	10†	*	*	0†	0	*
Cleft lip / palate	78	43	35	29	16	13	32	17	15	0	0	0†
Down syndrome	50	20	30	20†	*	13	27	14	13	0†	0	*
Suspected chromosomal disorder	43	18	25	22	10	12	18	7	11	0†	0	*
Hypospadias	16	16	0	10	0	0†	*	0	0	0†	*	*
Unknown congenital anomalies	116	62	54	43	20	23	38	18	20	0†	*	29
Ratio per 100 births*	0.5	0.5	0.4	0.4	0.5	0.4	0.5	0.5	0.2	0.3	1.2	0.8
											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.

Correction: In the 2015 report, total congenital anomalies of the newborn was reported as 312 where it should have been 408; Omphalocele/Gastroschisis reported 0 where it should have been 35; Cleft lip/palate reported 0 where it should have been 72.



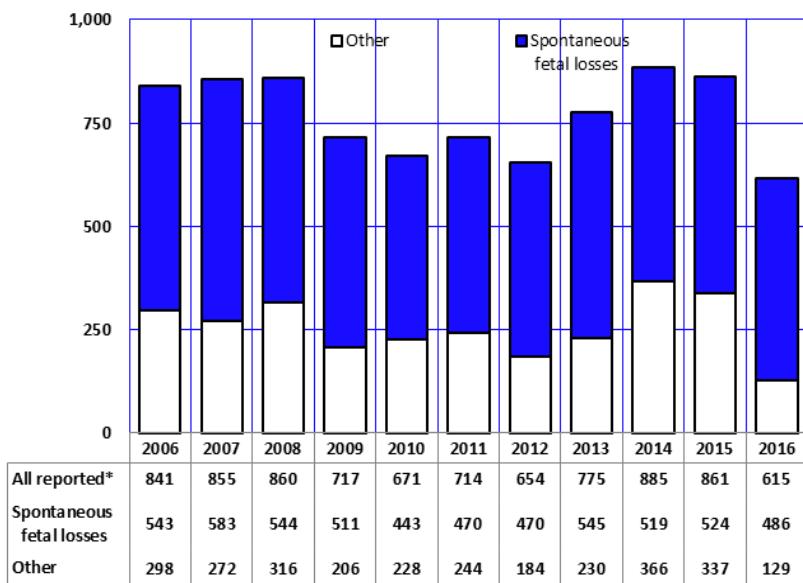
1C.

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.

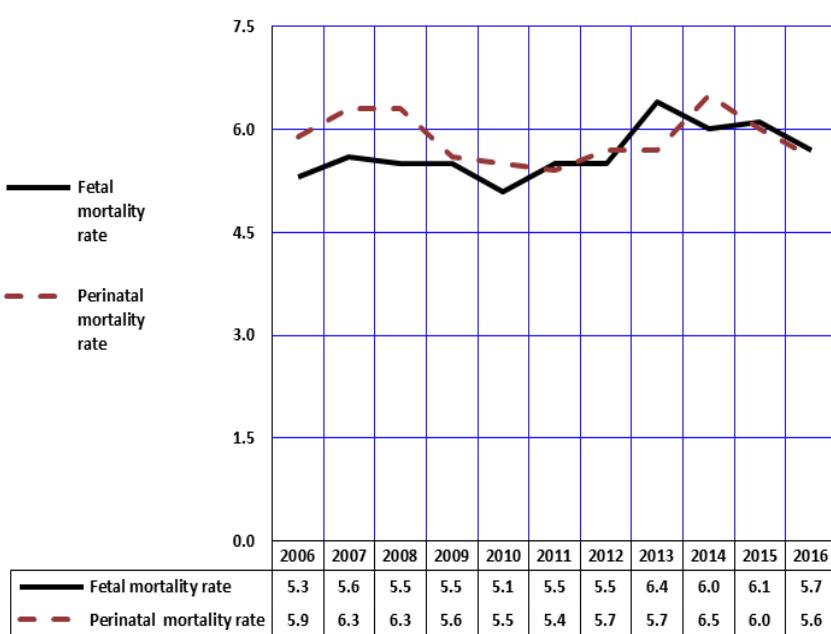
1C. FETAL, PERINATAL, AND MATERNAL DEATHS

Figure 1C-1
Trends in Fetal Deaths, Arizona, 2006–2016



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, 2006–2016



The number of all reported fetal deaths in Arizona (including late term abortions) in 2016 was 615, a 28.6 percent decrease from 2015 (**Figure 1C-1, Table 1C-3**). In 2016, the annual number of reportable spontaneous fetal losses decreased 7.3 percent from 524 in 2015 to 486 in 2016. (**Figure 1C-1, Table 1C-3**).

The fetal mortality rate decreased slightly from a rate of 6.1 deaths at 20 or more weeks of gestation per 1,000 live births in 2015 to a rate of 5.7 deaths in 2016. In 2016, the number of spontaneous fetal losses has seen a decrease at 486 spontaneous fetal losses.

Perinatal mortality refers here to death of a fetus of at least 28 weeks gestational age, or of an infant less than 7 days old. The perinatal death rate per 1,000 live births has been below 6 deaths per 1,000 since 2009. The perinatal mortality rate in 2016 was 5.6, a slight decrease from 2015 (**Figure 1C-2, Table 1C-3**).

Early infant deaths accounted for 239 or 50.3 percent of the 475 perinatal deaths in 2016 (**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.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

The number of women who died from maternal causes increased from 2015 to 2016. In 2016, no more than 30 women giving birth were reported to have died from maternal causes (**Table 1C-1**). The number of maternal deaths does not include all deaths occurring to pregnant women, but only those deaths assigned to causes related to or aggravated by pregnancy or pregnancy management.

Based on the total number of 121 maternal deaths from 2006 to 2016, women age 35 and older had the highest proportional contribution to maternal mortality followed by women age 25 - 34, and women age 24 and younger (**Figure 1C-3**).

Figure 1C-3
Percent of Death from Maternal Causes by Mother's Age Group,
Arizona, 2006-2016

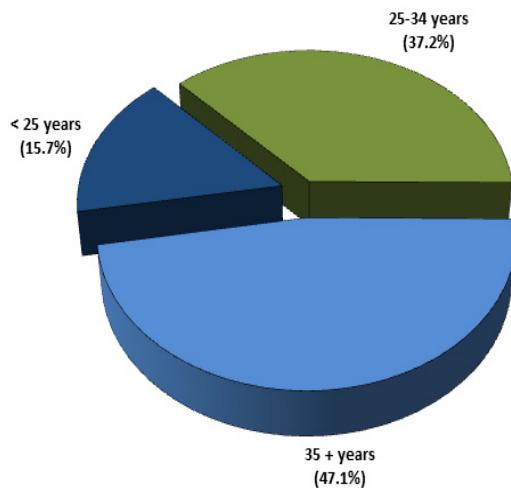
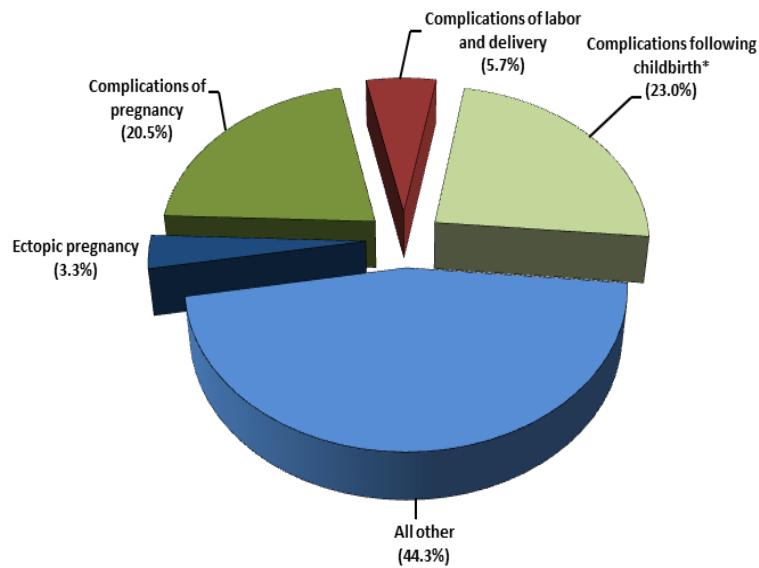


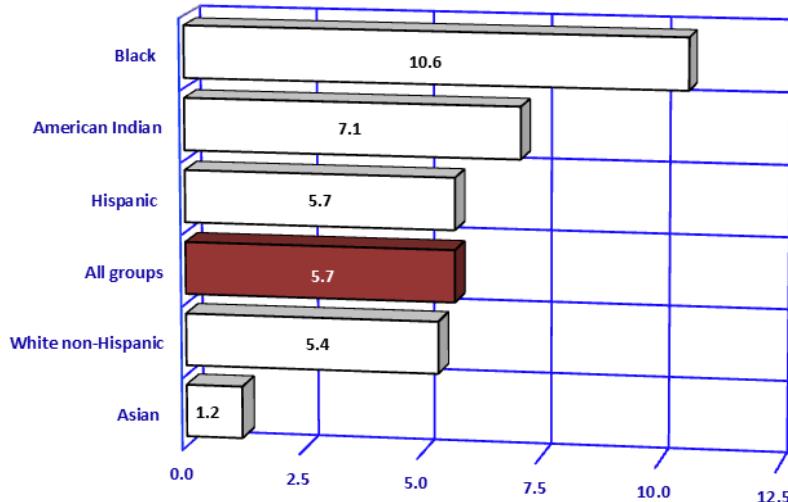
Figure 1C-4
Causes of Maternal Mortality^a, Arizona, 2006-2016



Notes: ^a Based on the total number of maternal deaths from 2003 to 2013; * Complications of the puerperium.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

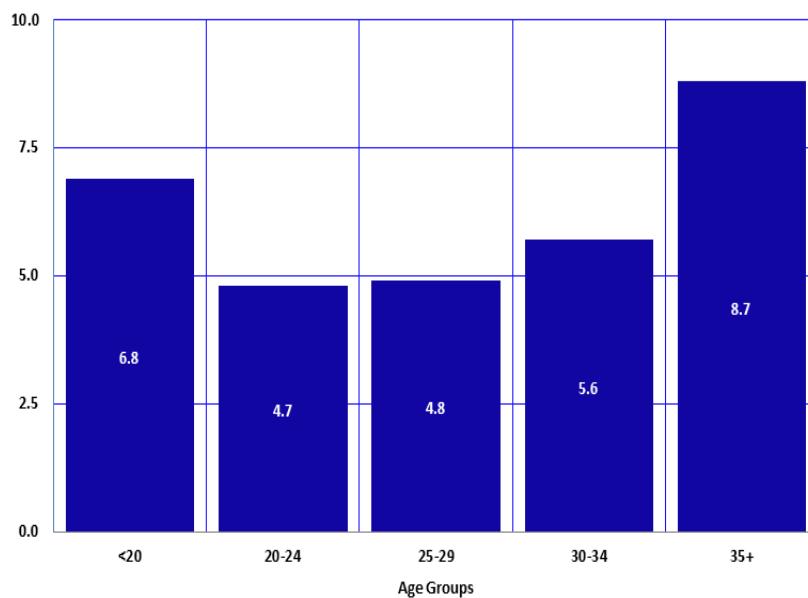
Figure 1C-5
Fetal Mortality Rates by Race/Ethnicity, Arizona, 2016



Fetal mortality rates vary by the race/ethnicity of the mother (**Figure 1C-5**). The fetal mortality rate for Black or African American women was 10.6 per 1,000 live births plus fetal deaths, the highest rate among the racial/ethnic groups. The fetal mortality rate was equally high for American Indian women (7.1), and Hispanic or Latino (5.7), while the rates of White non-Hispanic (5.4) and Asian women (1.2) 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, 2016



Fetal mortality rates vary by maternal age (**Figure 1C-6**). In 2016 fetal mortality rates were lowest for women aged 20-24 years and highest for women aged less than 20 years and those aged 35 years and older. The fetal mortality rate for mothers aged 35 and older decreased by 4.5 percent from 2015.

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

TABLE 1C-1
MATERNAL DEATHS^a BY AGE GROUP AND YEAR, ARIZONA, 2006-2016

Year	Total maternal deaths	Under <15	15-19	20-24	25-29	30-34	35-39	40-44	45+
2006	10†	0	*	*	*	*	*	*	*
2007	10†	0	*	0	0	*	*	*	0
2008	10†	0	*	*	*	*	*	0	0
2009	10†	0	0	*	*	*	*	0	0
2010	10†	0	*	*	*	*	*	*	*
2011	10†	0	*	*	0	*	*	0	*
2012	20†	0	0	*	*	*	*	*	*
2013	10†	0	*	*	*	*	*	0	*
2014	10†	0	*	0	0	*	*	*	*
2015	10†	0	0	*	0	*	*	0	*
2016	30†	0	*	*	*	7	*	0	*

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6;^a Maternal deaths are those assigned to complications of pregnancy, childbirth, and puerperium, category numbers 630-676 of the Ninth Revision, *International Classification of Diseases*; beginning in 2000, these are category codes 000-099 according to the Tenth Revision of the *International Classification of Diseases*.

TABLE 1C-2
MATERNAL DEATHS BY CAUSE AND YEAR, ARIZONA, 2006-2016

Cause of death (ICD-9/ICD-10 codes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
PREGNANCY WITH ABORTIVE OUTCOME (630-636/000-007)	*	*	*	*	0	0	0	*	*	0	*
Ectopic pregnancy (633/000)	*	*	0	0	0	0	0	*	0	0	0
COMPLICATIONS MAINLY RELATED TO PREGNANCY (640-648/010-016)	0	*	*	*	*	*	*	*	*	*	*
COMPLICATIONS OCCURRING IN THE COURSE OF LABOR AND DELIVERY (660-669/060-075)	*	*	0	0	0	0	0	*	0	*	0
COMPLICATIONS OF THE PUEPERIUM^a (670-676/085-092)	*	*	*	*	*	7	0	0	*	*	*
ALL OTHER	*	*	0	*	8	*	7	*	20	*	
TOTAL	10†	10†	10†	10†	10†	10†	10†	10†	10†	10†	30†

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

TABLE 1C-3
FETAL AND PERINATAL DEATHS AND RATES BY YEAR, ARIZONA, 2006-2016

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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.	841	855	860	717	671	714	654	775	885	861	615
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).	690	729	724	621	581	619	588	554	653	665	613
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.	543	583	544	511	443	470	470	545	519	524	486
RATE OF REPORTABLE SPONTANEOUS FETAL LOSSES^a											
	5.3	5.6	5.5	5.5	5.1	5.5	5.5	6.4	6.0	6.1	5.7
NUMBER OF PERINATAL DEATHS											
Spontaneous fetal losses of 28 or more weeks of gestation	259	290	293	243	214	216	221	262	265	275	236
Infant deaths of less than 7 days	340	359	339	281	269	249	266	221	286	235	239
PERINATAL DEATH RATE^b											
	5.9	6.3	6.3	5.6	5.5	5.4	5.7	5.7	6.5	6.0	5.6

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, 2006-2016**

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

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

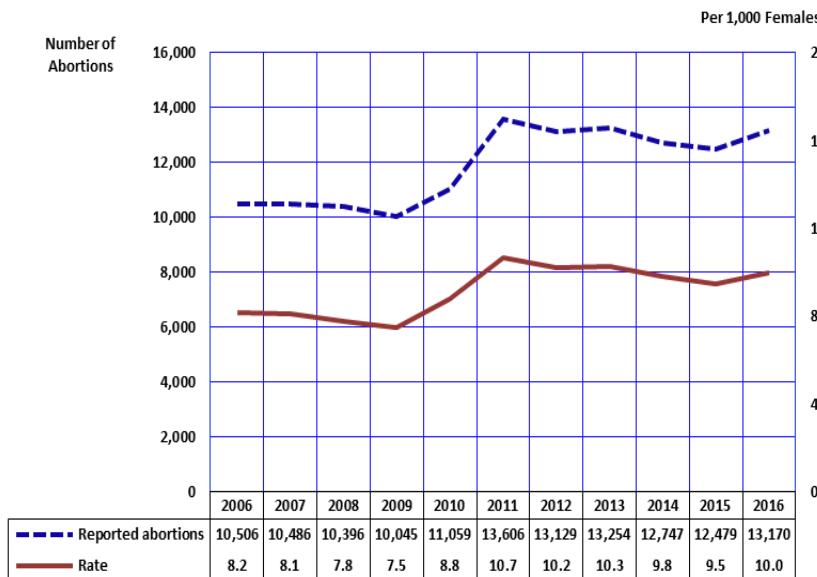
In July 1976, the Arizona Department of Health Services (ADHS) began an Abortion Surveillance Program (*Arizona Administrative Code, R9-19-302D*, as authorized by the *Arizona Revised Statute 36-344*). The program required the reporting of induced terminations of pregnancy performed in hospitals, outpatient 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 2016, 4.4 percent (586) of abortion records had race and ethnicity identified as unknown, and 1.9 percent (244) 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, 2006-2016



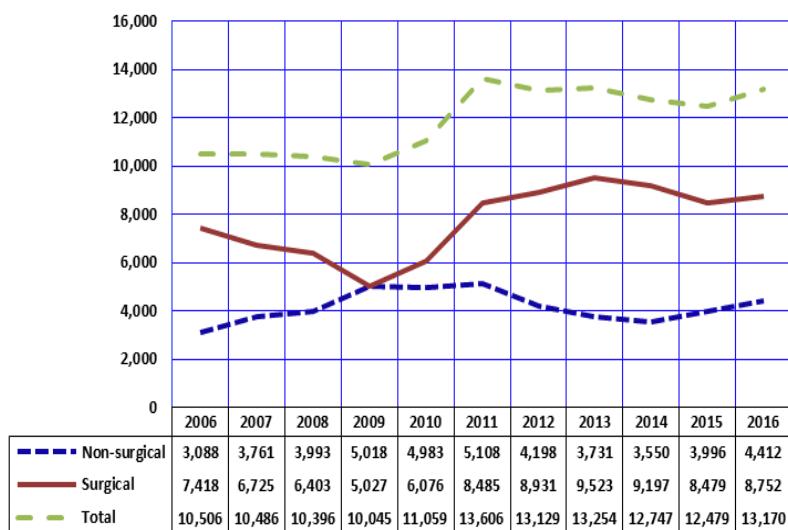
In calendar year 2016, the Arizona Department of Health Services received 13,170 reports of abortions obtained by Arizona residents, 691 more than the 12,479 reported in 2015 (**Figure 1-D1, Table 1D-1**).

There were 13,139 abortions in non-hospital clinics (**Table 1D-1**). Hospitals accounted for 27 abortion procedures, with less than 6 procedures being performed outside of clinics and hospitals.

Ninety-two percent of all reported abortions occurred at or before 13 weeks of pregnancy. Few reported abortions occurred after 14 or more weeks of gestation: 7.9 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, 2006-2016

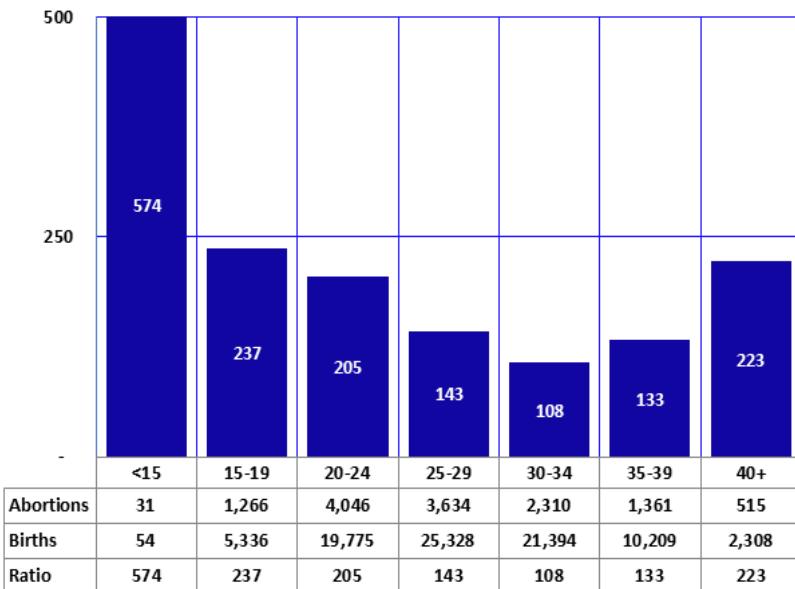


The rate of induced terminations of pregnancy per 1,000 female residents aged 15-44 increased slightly from 9.5 in 2015 to 10.0 in 2016 (**Table 1D-1**).

Trends in the percent of abortions conducted through surgical and non-surgical from 2006 to 2016 indicate shifting practices in methods used to complete abortions. In 2006, 70.6 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 66.5 percent of all abortion procedures conducted in 2016 being surgical procedures.

1D. ABORTIONS

Figure 1D-3
Abortion Ratios^a by Age Group, Arizona Residents, 2016



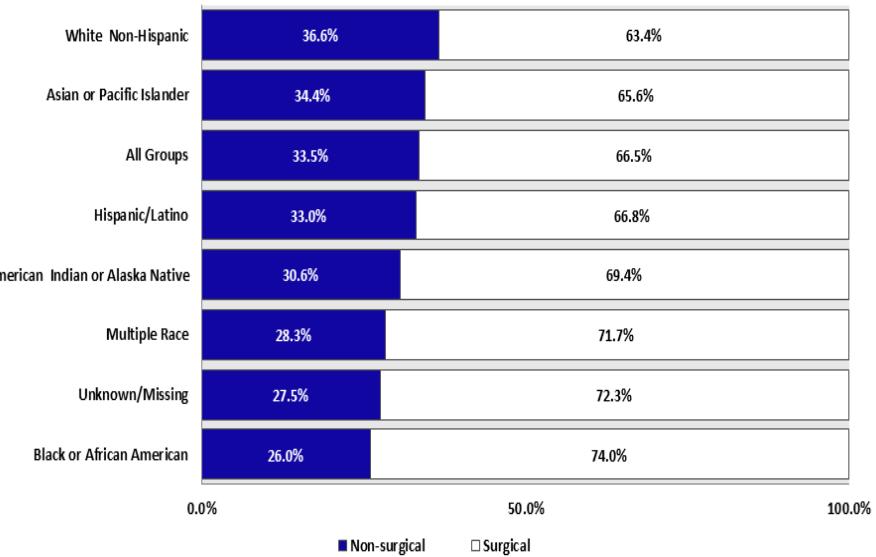
Abortion ratios (the number of abortions per 1,000 live births in each age group) vary by age at reported termination of pregnancy. Ratios tend to be higher at the extremes of the age distribution of the childbearing period, i.e., among women under age 15 and those aged 40 years or older (**Figure 1D-3**).

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

Notes: ^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, 2016

In 2016 non-surgical (also called “medical”) abortions made up 33.5 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
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 2006-2016

Characteristics	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
ABORTIONS PERFORMED IN ARIZONA	10,836	10,721	10,660	10,271	11,438	14,401	13,340	13,401	12,900	12,655	13,332
RESIDENT ABORTIONS	10,506	10,486	10,396	10,045	11,059	13,606	13,129	13,254	12,747	12,479	13,170
RACE/ETHNICITY											
White non-Hispanic	5,106	5,202	4,737	4,759	5,241	2,385	1,904	2,515	5,562	5,378	5,321
Hispanic or Latino	3,160	3,719	3,124	3,303	3,422	4,274	3,393	4,189	4,499	4,350	4,823
Black or African American	581	675	744	736	476	145	116	189	981	1,074	1,253
American Indian	342	310	297	300	218	48	38	61	291	331	340
Asian or other Pacific Islander	391	454	412	390	254	47	75	110	534	532	608
Multiple race ^a	NA	NA	NA	NA	NA	4,442	2,985	4,257	361	175	244
Refused/Unknown	926	126	1,082	557	1,448	2,265	4,618	1,933	519	639	581
AGE											
19 years and under	1,919	1,979	1,813	1,519	1,512	1,785	1,539	1,441	1,249	1,189	1,297
20-29 years	5,770	5,839	5,854	5,753	6,278	7,814	7,602	7,676	7,520	7,265	7,680
30 years and over	2,702	2,652	2,403	2,532	3,113	4,007	3,987	4,136	3,978	4,021	4,186
Not stated	115	16	326	241	156	NA	*	*	0	*	7
YEARS OF EDUCATION											
Elementary/secondary (1-12)	6,226	9,293	6,964	5,244	4,316	4,757	3,615	2,400	1,372	2,561	3,234
College (1-4 or 5+)	1,415	1,193	2,565	3,372	3,199	2,252	2,518	2,522	2,706	3,203	3,801
Not stated or unknown	2,865	0	867	1,429	3,544	6,597	6,996	8,332	8,064	6,715	6,135
WEEKS OF GESTATION											
12 weeks or under	9,470	9,498	9,175	9,238	9,967	12,156	11,677	11,767	11,232	11,062	11,762
13 weeks or over	948	974	916	597	948	1,427	1,432	1,487	1,507	1,411	1,396
Not stated or unknown	88	14	305	210	144	23	20	0	8	6	12
FACILITY											
Clinic	10,560	10,486	10,391	9,362	9,689	14,358	13,072	13,023	12,671	12,065	13,139
Hospital	0	0	0	0	0	16	42	54	152	70	24
Other	0	0	*	683	^d 1,354	0	*	79	6	390	*

TABLE 1D-1 (continued)
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 2006-2016

Characteristics	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
PREVIOUS LIVE BIRTHS											
None	4,798	4,517	4,441	4,377	4,867	5,820	5,829	5,810	5,201	5,267	5,586
One or more	5,708	5,969	5,955	5,668	6,178	7,772	7,280	7,387	7,337	7,187	7,542
PREVIOUS ABORTIONS											
None	6,390	6,453	6,338	5,874	6,746	8,382	8,445	8,450	7,872	7,843	8,177
One or more	4,116	4,033	4,058	4,171	4,282	5,183	4,616	4,672	4,616	4,549	4,913
PREVIOUS SPONTANEOUS TERMINATIONS OF PREGNANCY											
None	8,864	8,807	8,756	8,424	9,300	11,257	10,941	10,825	10,241	10,146	10,462
One or more	1,642	1,679	1,640	1,621	1,643	2,301	2,108	2,283	2,213	2,220	2,613
NONSURGICAL ABORTIONS											
	3,088	3,761	3,993	5,018	4,983	5,108	4,198	3,731	3,550	3,996	4,412
ABORTION RATIO^b	103.0	102.1	104.8	108.5	127.0	159.7	153.2	156.0	147.1	146.8	156.0
ABORTION RATE^c	8.2	8.1	7.8	7.5	8.8	10.7	10.2	10.3	9.8	9.5	10.0

Notes: * Cell suppressed due to count less than 6; ^a Multiple race data was not available for previous years (2004-2010); ^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, 2006-2016

Race and Ethnicity	2006	2007	2008	2009	2010	2011 ^e	2012	2013	2014	2015	2016
Percent of Abortions^b											
White non-Hispanic	48.6	49.6	45.6	47.4	47.4	17.5	14.5	19.0	43.6	43.1	40.4
Hispanic or Latino	30.1	35.5	30.1	32.9	30.9	31.4	25.8	31.6	35.3	34.9	36.6
Black or African American	5.5	6.4	7.2	7.3	4.3	1.1	0.9	1.4	7.7	8.6	9.5
American Indian or Alaska Native	3.3	3.0	2.9	3.0	2.0	0.4	0.3	0.5	2.3	2.7	2.6
Asian or Pacific Islander	3.7	4.3	4.0	3.9	2.3	0.3	0.6	0.8	4.2	4.3	4.6
Multiple races	NA	NA	NA	NA	NA	32.6	22.7	32.1	2.8	1.4	1.9
Refused/Unknown	8.8	1.2	10.4	5.5	13.1	16.6	35.2	14.6	4.1	5.1	4.4
Abortion Rates^c											
White non-Hispanic	7.2	7.3	6.5	6.4	8.2	3.7	2.9	3.8	8.6	8.3	8.3
Hispanic or Latino	8.1	9.2	7.6	8.0	8.0	9.9	7.7	9.3	10.6	9.1	9.9
Black or African American	10.3	12.7	13.8	13.3	8.5	2.5	2.0	3.2	12.8	16.3	18.4
American Indian or Alaska Native	4.4	3.8	3.6	3.6	3.2	0.6	0.6	0.9	3.4	5.1	5.2
Asian or Pacific Islander	9.3	10.4	9.3	8.7	5.2	0.9	1.6	2.3	8.5	9.2	10.1
Multiple races	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Refused/Unknown	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Abortion Ratio^d											
White non-Hispanic	119	123	113	120	135	62	49	66	139	141	141
Hispanic or Latino	70	81	73	86	100	132	102	127	133	127	142
Black or African American	150	162	173	168	110	33	25	40	217	246	286
American Indian or Alaska Native	54	48	47	49	37	8	7	11	57	65	68
Asian or Pacific Islander	125	133	120	115	77	13	21	32	169	164	181
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, 2016

Age	Gestational Age ^a			≥ 21 or more weeks		
	≤ 13 weeks		14 to 20 weeks	Count	Percent	Count
<15 yrs	26	83.9	*		**	0
15-19 yrs	1,117	88.2	130	10.3		19
20-24 yrs	3,736	92.3	269	6.6		41
25-29 yrs	3,370	92.7	224	6.2		36
30-34 yrs	2,146	92.9	138	6.0		25
35-39 yrs	1,252	92.0	94	6.9		14
≥ 40 yrs	470	91.3	41	8.0	*	**
Totals	12,118	92.0	900†	6.8	140†	1.1

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; a Totals do not add to 13,170 due to 12 unknown gestational age.

TABLE 1D-4
ABORTIONS BY WEEK OF GESTATION AND RACE/ETHNICITY, ARIZONA, 2016

Week of gestation	Total	Race/ethnicity					Refused / Unknown race
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	
Total	13,170	5,321	4,823	1,253	340†	610†	240†
6 weeks or less	4,196	1,795	1,479	337	86	261	69
7	2,706	1,112	987	253	55	123	33
8	1,891	747	711	182	55	68	36
9	1,172	450	451	114	31	46	26
10	805	316	313	82	22	18	14
11	653	228	253	81	29	11	18
12	339	135	119	47	11	11	6
13	356	133	139	41	11	12	10
14	253	103	82	25	13	11	8
15	220†	73	72	31	*	13	9
16	139	64	39	12	8	9	6
17	110†	44	46	11	*	*	*
18	70†	25	25	12	*	*	*
19	60†	21	28	6	0	*	*
20	50†	18	18	6	*	6	*
21+	140†	56	53	12	7	9	*
Unknown	10†	*	8	*	0	0	*

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