

CHAPTER 1

REPRODUCTIVE AND PERINATAL HEALTH, ARIZONA, 2005-2015

- 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.

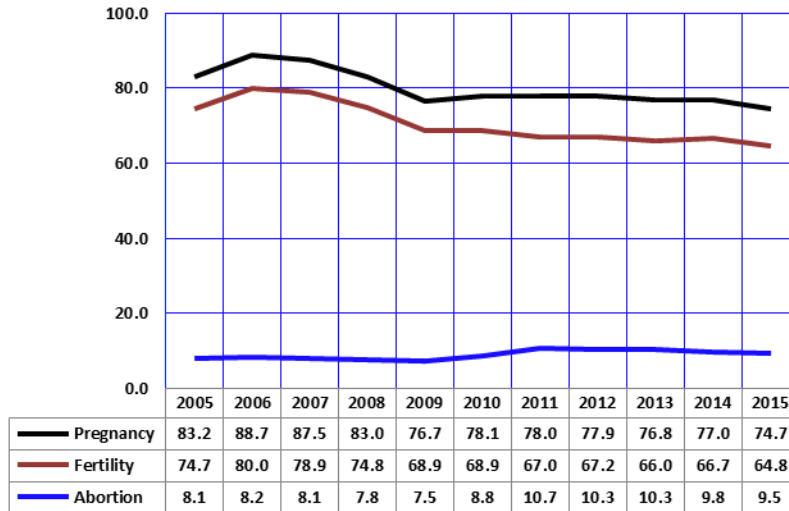
PREGNANCIES BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND AGE GROUP

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 98,027 pregnancies in Arizona in 2015 compared to 99,914 in 2014, 98,762 in 2013, and 103,172 in 2009. The number of resident live births decreased by 1.9 percent from 86,648 in 2014 to 85,024 in 2015 (**Table 1A-1**). The number of reported abortions decreased by 2.1 percent, from 12,747 in 2014 to 12,479 in 2015. The number of reportable spontaneous fetal losses increased 1.0 percent from 519 in 2014 to 524 in 2015.

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, 2005-2015



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

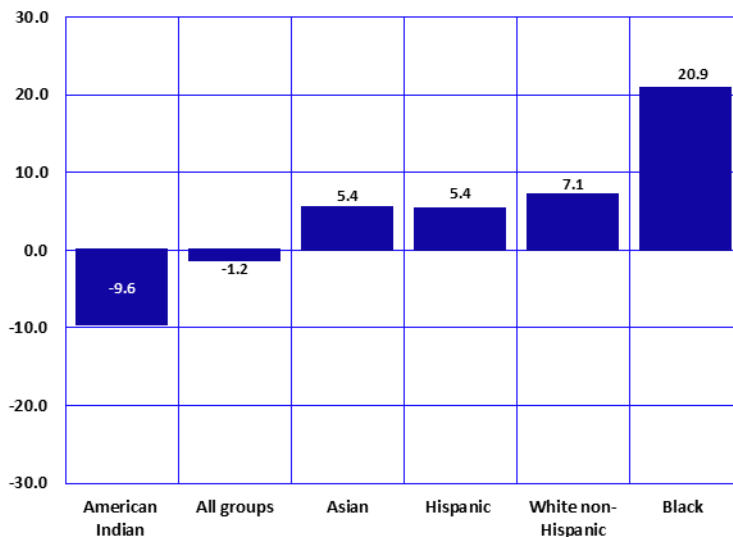
Rate is a measure of the frequency of some event (such as pregnancy, or live birth) in relation to a unit of population during a specified time period such as a year; events in the numerator of the year occur to individuals in the denominator. The pregnancy rate decreased from 77.0 pregnancies per 1,000 females of childbearing age in 2014 to 74.7 pregnancies per 1,000 females of childbearing age in 2015 (**Figure 1A-1, Table 1A-1**).

The fertility rate (the number of births per 1,000 women of childbearing age) also decreased from 66.7/1,000 in 2014 to 64.8/1,000 in 2015. The fertility rate in 2015 was 19.0 percent lower than the recent high of 2006.

The abortion rate (the number of abortions per 1,000 women of childbearing age) decreased 3.2 percent from 2014 to 2015.

It is important to note that the number of females aged 15-44 years estimated in 2015 (n=1,312,687) was greater than in 2014 (n = 1,298,305).

Figure 1A-2
Percent Change from 2011 to 2015 in the Number of Pregnancies by Woman's Race/Ethnicity, Arizona



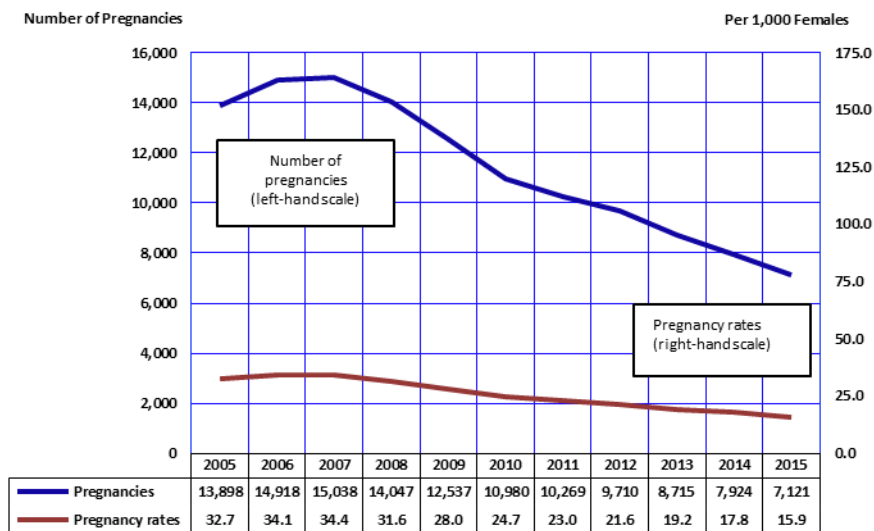
Overall, pregnancies in Arizona decreased 1.2 percent from 2011 to 2015. The changes in number of pregnancies varied by race/ethnicity. The overall number of pregnancies increased for almost all racial/ethnic groups from 2011 to 2015, except among American Indian females. Black females (20.9 percent) and White non-Hispanic females (7.1 percent) experienced the largest percent increase in number of pregnancies from 2011 to 2015, while the number of pregnancies for American Indian females decreased 9.6 percent from 2011 to 2015 (**Figure 1A-2, Table 1A-1**).

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

Figure 1A-3
Trends in the Number of Pregnancies and Pregnancy Rates^a among Females 19 or Younger, Arizona, 2005-2015

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

The number of teen pregnancies decreased by 52.6 percent from 15,038 in 2007 to 7,121 in 2015 (Figure 1A-3). The teen pregnancy rate declined even more, by 53.8 percent, from 34.4 pregnancies per 1,000 females 10-19 years in 2007 to 15.9/1,000 in 2015. The number of teenage pregnancies and the teen pregnancy rate of 2015 were the lowest recorded since at least 1980.

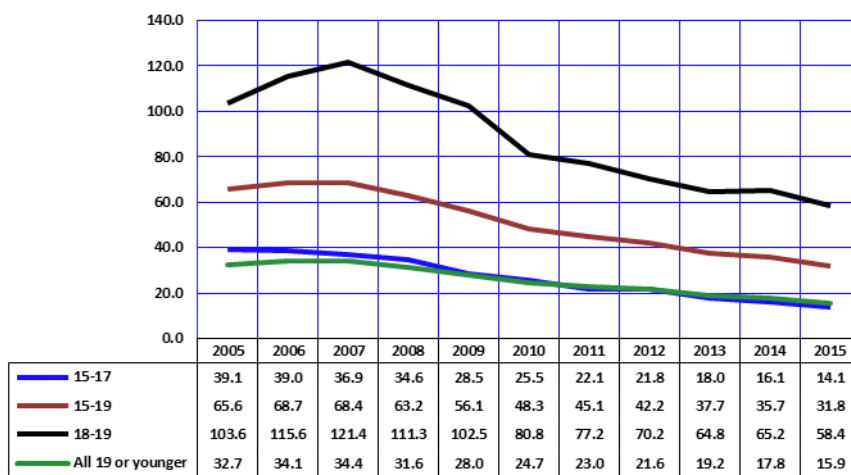


Note: ^a Pregnancy rate is the number of pregnancies per 1,000 females in specified age group.

Figure 1A-4
Pregnancy Rates^a by Age Group and Year among Females 19 or Younger, Arizona, 2005-2015

The pregnancy rate for Arizona teenagers 15-19 years old in 2015 was 31.8 pregnancies per 1,000 females (Figure 1A-4, Table 5A-2), 10.9 percent lower than 2014 and 53.5 percent lower than in 2007. The pregnancy rate for younger teenagers 15-17 years old declined by 61.8 percent (Table 1A-3) from 36.9/1,000 in 2007 to 14.1/1,000 in 2015. The pregnancy rate for older teenagers 18-19 years old declined by 51.9 percent from 121.4/1,000 in 2007 to 58.4/1,000 in 2015 (Table 1A-4).

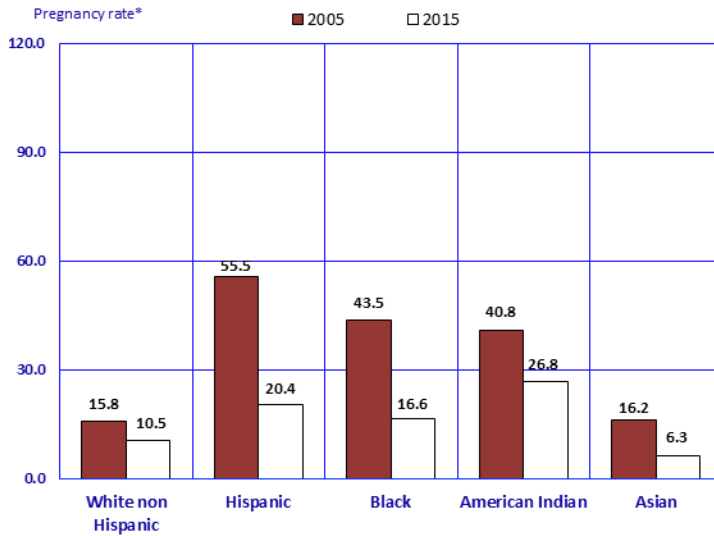
County-level information about teen pregnancies and pregnancy rates is provided in Table 5A-2, Table 5A-3, and Table 5A-5. Pregnancy statistics for Arizona are not available on a sub-county level.



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

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

Figure 1A-5
Comparison of Pregnancy Rates^a by Race/Ethnicity and Year among Females 19 or Younger in Arizona, 2005 and 2015



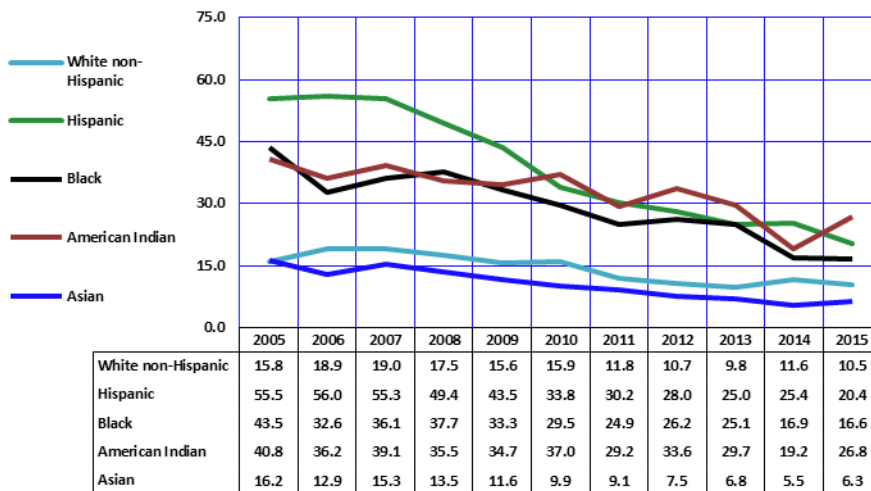
Note: ^a All rates per 1,000 females in specified age group.

Teen pregnancy rates differ by race/ethnicity.

Between 2005 and 2015, 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 63.2 percent drop from 2005 to 2015. The Black teenage pregnancy rate decreased greatly also, by 61.8 percent from 43.5 in 2005 to 16.6 in 2015.

The changes in annual teen pregnancy rates from 2005 to 2015 are shown in detail below.

Figure 1A-6
Pregnancy Rates^a by Race/Ethnicity and Year among Females 19 or Younger, Arizona, 2005-2015



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

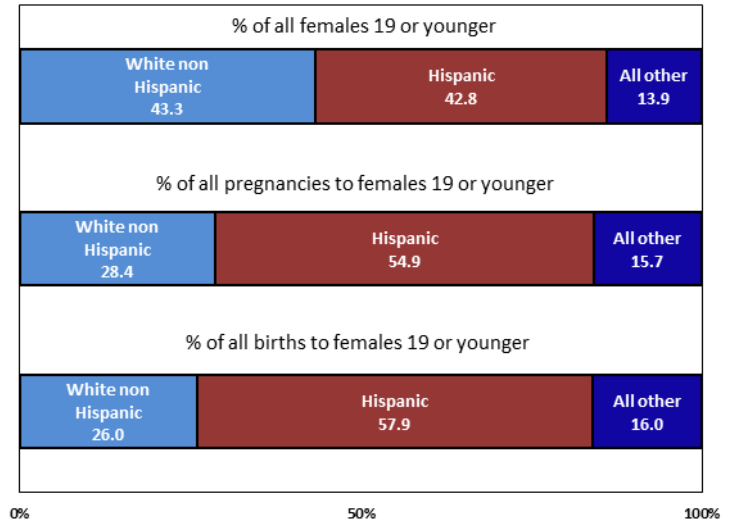
The teen pregnancy rates for all racial/ethnic groups were lower in 2015 than in 2005 (**Figure 1A-6**). Compared to 2014, the teen pregnancy rate decreased for all racial/ethnic groups, except for American Indians and Asians.

From 2014 to 2015, teenage pregnancy rates decreased 19.7 percent for Hispanic females, 9.5 percent for White non-Hispanic females and 1.8 percent for Black females, while the rate increased (39.6 percent) among American Indian and (14.5 percent) Asian or Pacific Islander females.

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

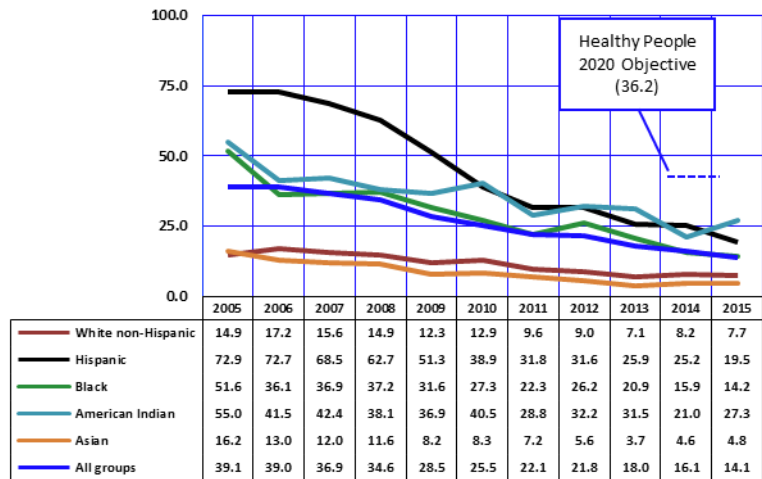
In 2015, Hispanic females accounted for approximately 42.8 percent of all females 10-19 years old in Arizona. As in the past, they accounted for a large percentage of teen pregnancies (54.9 percent) and live births (57.9 percent; **Figure 1A-7**). In contrast, White non-Hispanic females made up a larger proportion of all females 10-19 years old in Arizona, but had a lower proportional contribution to teen pregnancies (28.4 percent) and live births (26.0 percent). Note: percentages are based on the number of pregnancies and births in **Table 1A-5**.

Figure 1A-7
Proportional Contribution by Race/Ethnicity to Pregnancies and Live Births among Females 19 or Younger, Arizona, 2015



In 2015, the pregnancy rate of 14.1 pregnancies per 1,000 adolescent females 15-17 years old in Arizona was 61.0 percent lower than the **Healthy People 2020** objective of 36.2/1,000 (**Figure 1A-8, Table 1A-3**). For all racial/ethnic groups in Arizona, the pregnancy rates for females age 15-17 years were below the Healthy People 2020 objective. The 2015 pregnancy rate among Asians age 15-17 was 7.5 times lower than the objective and among White non-Hispanics 4.7 times lower than the objective. While lower than the 2020 objective, the pregnancy rates of American Indians, Hispanics, and Blacks were substantially higher than their White non-Hispanic and Asian counterparts.

Figure 1A-8
Pregnancy Rates by Race/Ethnicity and Year among Females 15-17 Years: 2005-2015 and the "Healthy Arizona 2020" Objective



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

**TABLE 1A-1
NUMBER OF PREGNANCIES^a BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR WITH RATES^b, ARIZONA, 2005-2015**

Race/ethnicity Pregnancy outcome	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2015 Rates
WHITE^c NON-HISPANIC, total:	44,296	48,329	47,633	46,860	44,737	44,174	40,868	40,769	40,982	45,864	43,758	67.9
Births	39,657	43,013	42,216	41,925	39,781	38,777	38,294	38,670	38,220	40,097	38,180	59.2
Abortions	4,431	5,106	5,202	4,737	4,759	5,241	2,385	1,904	2,515	5,562	5,378	8.3
Fetal deaths	208	210	215	198	197	156	189	195	247	205	200	0.3
HISPANIC OR LATINO, total:	45,500	48,266	49,717	45,997	41,869	37,953	36,853	36,720	37,469	38,396	38,841	81.0
Births	42,156	44,862	45,731	42,639	38,362	34,333	32,398	33,146	33,075	33,715	34,264	71.4
Abortions	3,112	3,160	3,719	3,124	3,303	3,422	4,274	3,393	4,189	4,499	4,350	9.1
Fetal deaths	232	244	267	234	204	198	181	181	205	182	227	0.5
BLACK OR AFRICAN AMERICAN, total:	4,068	4,484	4,884	5,089	5,166	4,843	4,538	4,867	4,955	5,551	5,485	83.4
Births	3,450	3,864	4,165	4,301	4,378	4,328	4,366	4,715	4,726	4,522	4,361	66.3
Abortions	585	581	675	744	736	476	145	116	189	981	1,074	16.3
Fetal deaths	33	39	44	44	52	39	27	36	40	48	50	0.8
AMERICAN INDIAN OR ALASKA NATIVE, total:	6,691	6,744	6,757	6,706	6,516	6,063	5,921	5,650	5,577	5,483	5,355	82.6
Births	6,293	6,364	6,408	6,362	6,170	5,815	5,830	5,569	5,476	5,145	4,984	76.8
Abortions	353	342	310	297	300	218	48	38	61	291	331	5.1
Fetal deaths	45	38	39	47	46	30	43	43	40	47	40	0.6
ASIAN OR PACIFIC ISLANDER, total:	3,195	3,537	3,883	3,856	3,797	3,564	3,579	3,715	3,589	3,720	3,774	65.1
Births	2,805	3,136	3,412	3,425	3,396	3,293	3,505	3,625	3,466	3,169	3,235	55.8
Abortions	379	391	454	412	390	254	47	75	110	534	532	9.2
Fetal deaths	11	10	17	19	11	17	27	15	13	17	7	0.1
ALL RACIAL/ETHNIC GROUPS^d, total:	106,776	113,091	113,756	110,155	103,172	98,548	99,266	99,324	98,762	99,914	98,027	74.7
Births	95,798	102,042	102,687	99,215	92,616	87,053	85,190	85,725	84,963	86,648	85,024	64.8
Abortions	10,446	10,506	10,486	10,396	10,045	11,059	13,606	13,129	13,254	12,747	12,479	9.5
Fetal deaths	532	543	583	544	511	443	470	470	545	519	524	0.4
Pregnancy rate, total:	83.2	88.7	87.5	83.0	76.7	78.1	78.0	77.9	76.8	77.0	74.7	
Fertility rate^e	74.7	80.0	78.9	74.8	68.9	68.9	67.0	67.2	66.0	66.7	64.8	
Abortion rate	8.1	8.2	8.1	7.8	7.5	8.8	10.7	10.3	10.3	9.8	9.5	

Notes: ^a The sum of recorded live births, abortions and fetal deaths; beginning in 2003, fetal deaths are spontaneous terminations of pregnancy at 20 or more weeks of gestation (or, if the gestational period is unknown, these are the deaths of fetuses weighing 350 grams or more); ^b All rates per 1,000 females of childbearing age (15-44 years); ^c Not of Hispanic origin; ^d Includes other and unspecified ethnicity; ^e Number of births per 1,000 females of childbearing age.

**TABLE 1A-2
NUMBER OF PREGNANCIES^a BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES AGED 17 AND YOUNGER
WITH RATES^b, ARIZONA, 2005-2015**

Race/ethnicity Pregnancy outcome	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2015 Rates
WHITE^c NON-HISPANIC, total:	1,028	1,204	1,165	1,074	894	770	600	564	448	496	462	3.0
Births	728	871	805	784	669	553	507	483	373	352	344	2.2
Abortions	293	324	353	287	218	214	90	71	72	140	117	0.8
HISPANIC OR LATINO, total:	3,043	3,281	3,286	3,057	2,496	2,106	1,731	1,728	1,443	1,292	1,144	7.4
Births	2,858	3,046	3,007	2,835	2,340	1,927	1,528	1,574	1,291	1,138	1,000	6.5
Abortions	172	217	254	207	144	167	196	150	142	141	131	0.8
BLACK OR AFRICAN AMERICAN, total:	247	255	268	266	221	189	170 [†]	174	140	145	106	5.5
Births	207	194	207	215	187	161	162	164	128	107	78	4.1
Abortions	37	57	55	48	31	25	*	9	9	36	27	1.4
AMERICAN INDIAN OR ALASKA NATIVE, total:	530	477	504	452	436	361	310 [†]	260 [†]	260 [†]	217	204	10.9
Births	499	449	471	430	411	345	307	258	251	205	184	9.8
Abortions	25	25	30	19	22	15	*	*	*	7	17	0.9
ASIAN OR PACIFIC ISLANDER, total:	39	43	43	41	30	30 [†]	30 [†]	20 [†]	20 [†]	25	20 [†]	1.7
Births	29	29	31	27	20	24	28	18	13	14	17	1.5
Abortions	10	14	12	14	9	*	*	*	*	11	*	**
ALL RACIAL/ETHNIC GROUPS^d, total:	5,029	5,347	5,300	4,970	4,101	3,513	3,089	2,976	2,476	2,193	1,953	5.4
Births	4,364	4,620	4,541	4,312	3,633	3,015	2,548	2,497	2,056	1,816	1,623	4.5
Abortions	636	693	718	634	442	479	527	463	402	352	312	0.9
Pregnancy rate, total:	14.8	15.1	14.8	13.7	11.2	10.0	8.7	8.4	6.9	6.1	5.4	
Fertility rate^e	12.9	13.0	12.7	11.9	9.9	8.6	7.2	7.1	5.8	5.1	4.5	
Abortion rate	1.9	2.0	2.0	1.7	1.2	1.4	1.5	1.3	1.1	1.0	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; ^aFetal deaths are included in the total counts of pregnancies; ^bAll rates per 1,000 females 10-17 years old; ^cNot of Hispanic origin; ^dIncludes other and unspecified ethnicity; ^eNumber 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, 2005-2015**

Race/ethnicity Pregnancy outcome	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2015 Rates
WHITE^c NON-HISPANIC, total:	996	1,157	1,067	1,038	863	742	577	549	434	481	451	7.7
Births	711	852	779	769	649	541	494	475	365	344	339	5.8
Abortions	278	296	282	266	207	198	80	65	66	133	111	1.9
HISPANIC OR LATINO, total:	2,885	3,131	3,126	2,911	2,401	2,021	1,653	1,670	1,390	1,262	1,103	19.5
Births	2,721	2,923	2,892	2,724	2,253	1,859	1,467	1,528	1,244	1,115	972	17.2
Abortions	151	193	210	173	136	151	179	138	136	134	118	2.1
BLACK OR AFRICAN AMERICAN, total:	234	239	242	248	212	178	160†	166	133	138	103	14.2
Births	199	187	195	203	181	151	152	159	122	102	77	10.6
Abortions	32	48	42	43	28	24	*	6	8	34	25	3.4
AMERICAN INDIAN OR ALASKA NATIVE, total:	505	457	470	428	419	345	300†	250†	250†	210†	193	27.3
Births	478	430	445	408	394	331	293	251	243	196	177	25.0
Abortions	21	24	22	17	22	13	*	*	*	*	13	1.8
ASIAN OR PACIFIC ISLANDER, total:	38	39	39	38	30†	30†	26	20†	10†	23	20†	4.8
Births	28	28	31	26	18	23	26	17	11	13	17	4.1
Abortions	10	11	8	12	*	*	0	*	*	10	*	**
ALL RACIAL/ETHNIC GROUPS^d, total:	4,790	5,105	4,975	4,740	3,945	3,363	2,939	2,860	2,385	2,125	1,887	14.1
Births	4,179	4,450	4,361	4,151	3,501	2,910	2,447	2,430	1,985	1,770	1,582	11.8
Abortions	582	624	576	567	418	435	478	414	382	330	287	2.1
Pregnancy rate, total:	39.1	39.0	36.9	34.6	28.5	25.5	22.1	21.8	18.0	16.1	14.1	
Fertility rate^e	34.1	34.0	32.3	30.3	25.3	22.1	18.4	18.5	15.0	13.4	11.8	
Abortion rate	4.8	4.8	4.3	4.1	3.0	3.3	3.6	3.1	2.9	2.5	2.1	

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, 2005-2015**

Race/ethnicity Pregnancy outcome	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2015 Rates
WHITE^c NON-HISPANIC, total:	2,603	2,944	2,936	2,778	2,560	2,316	1,792	1,675	1,602	1,759	1,562	40.2
Births	2,016	2,338	2,295	2,209	2,046	1,833	1,582	1,494	1,408	1,405	1,187	30.5
Abortions	574	593	629	554	502	480	199	167	185	348	371	9.5
HISPANIC OR LATINO, total:	4,705	5,115	5,259	4,707	4,400	3,812	3,566	3,357	3,175	3,078	2,764	74.7
Births	4,330	4,692	4,775	4,333	4,001	3,421	3,103	3,053	2,789	2,675	2,409	65.1
Abortions	350	392	456	354	381	365	442	291	367	390	336	9.1
BLACK OR AFRICAN AMERICAN, total:	441	476	498	546	501	446	413	390 [†]	397	345	294	59.8
Births	362	407	414	441	416	401	399	380	379	287	234	47.6
Abortions	77	67	81	95	79	42	13	*	14	54	58	11.8
AMERICAN INDIAN OR ALASKA NATIVE, total:	759	800	849	794	793	664	690 [†]	640 [†]	530 [†]	417	423	90.8
Births	705	767	814	755	759	643	680	632	524	397	385	82.7
Abortions	51	30	33	35	30	21	*	*	*	18	34	7.3
ASIAN OR PACIFIC ISLANDER, total:	93	89	124	108	99	88	90 [†]	68	70 [†]	67	72	23.8
Births	67	63	72	86	68	79	83	61	66	43	46	15.2
Abortions	25	26	51	22	31	9	*	7	*	24	25	8.3
ALL RACIAL/ETHNIC GROUPS^d, total:	8,869	9,571	9,738	9,077	8,436	7,467	7,180	6,734	6,239	5,731	5,168	58.4
Births	7,569	8,296	8,431	7,849	7,319	6,401	5,887	5,620	5,166	4,807	4,261	48.2
Abortions	1,256	1,226	1,261	1,179	1,077	1,033	1,258	1,077	1,039	897	877	9.9
Pregnancy rate, total:	103.6	115.6	121.4	111.3	102.5	80.8	77.2	70.2	64.8	65.2	58.4	
Fertility rate^e	88.4	100.2	105.1	96.3	89.0	69.2	63.3	58.6	53.6	54.7	48.2	
Abortion rate	14.7	14.8	15.7	14.5	13.1	11.2	13.5	11.2	10.8	10.2	9.9	

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 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, 2005-2015**

Race/ethnicity Pregnancy outcome	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2015 Rates
WHITE^c NON-HISPANIC, total:	3,631	4,148	4,101	3,852	3,454	3,086	2,392	2,239	2,050	2,255	2,024	10.5
Births	2,744	3,209	3,100	2,993	2,715	2,386	2,089	1,977	1,781	1,757	1,531	7.9
Abortions	867	917	982	841	720	694	289	238	257	488	488	2.5
HISPANIC OR LATINO, total:	7,748	8,396	8,545	7,764	6,896	5,918	5,297	5,085	4,618	4,370	3,908	20.4
Births	7,188	7,738	7,782	7,168	6,341	5,348	4,631	4,627	4,080	3,813	3,409	17.8
Abortions	522	609	710	561	525	532	638	441	509	531	467	2.4
BLACK OR AFRICAN AMERICAN, total:	688	731	766	812	722	635	580	562	537	490	400	16.6
Births	569	601	621	656	603	562	561	544	507	394	312	12.9
Abortions	114	124	136	143	110	67	17	14	23	90	85	3.5
AMERICAN INDIAN OR ALASKA NATIVE, total:	1,289	1,277	1,353	1,246	1,229	1,025	1,000 [†]	900 [†]	787	634	627	26.8
Births	1,204	1,216	1,285	1,185	1,170	988	987	890	775	602	569	24.3
Abortions	76	55	63	54	52	36	*	*	8	25	51	2.2
ASIAN OR PACIFIC ISLANDER, total:	132	132	167	149	129	117	120 [†]	88	80 [†]	92	92	6.3
Births	96	92	103	113	88	103	111	79	79	57	63	4.3
Abortions	35	40	63	36	40	14	*	9	*	35	28	1.9
ALL RACIAL/ETHNIC GROUPS^d, total:	13,898	14,918	15,038	14,047	12,537	10,980	10,269	9,710	8,715	7,924	7,121	15.9
Births	11,933	12,916	12,972	12,161	10,952	9,416	8,435	8,117	7,222	6,623	5,884	13.1
Abortions	1,892	1,919	1,979	1,813	1,519	1,512	1,785	1,539	1,441	1,249	1,189	2.7
Pregnancy rate, total:	32.7	34.1	34.4	31.6	28.0	24.7	23.0	21.6	19.2	17.8	15.9	
Fertility rate^e	28.1	29.6	29.7	27.4	24.4	21.2	18.9	18.0	15.9	14.9	13.1	
Abortion rate	4.5	4.4	4.5	4.1	3.4	3.4	4.0	3.4	3.2	2.8	2.7	

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ^a Fetal deaths are included in the total 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, 2015
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	98,027	66	1,887	5,168	24,516	28,701	23,237	11,519	2,694	230†	10†
Births	85,024	41	1,582	4,261	20,525	25,191	20,925	10,112	2,202	178	7
Abortions^b	12,479	25	287	877	3,890	3,375	2,190	1,324	465	42	*
Fetal deaths	520†	0	18	30	101	135	122	83	27	*	*
White non Hispanic											
Total pregnancies	43,758	10†	450†	1,560†	8,953	13,456	12,062	5,820	1,295	140†	10†
Births	38,180†	*	339	1,187	7,312	11,929	11,043	5,165	1,079	116	*
Abortions^b	5,378	6	111	371	1,607	1,477	956	619	207	24	0
Fetal deaths	200†	0	*	*	34	50	63	36	9	*	*
Hispanic or Latino											
Total pregnancies	38,841	41	1,103	2,764	11,665	10,845	7,628	3,830	916	50†	0†
Births	34,264	28	972	2,409	10,152	9,652	6,872	3,381	762	36	0
Abortions^b	4,350	13	118	336	1,465	1,135	714	413	147	7	*
Fetal deaths	230†	0	13	19	48	58	42	36	7	*	*
Black or African American											
Total pregnancies	5,490†	0†	100†	290†	1,603	1,580	1,157	590†	150†	6	0
Births	4,360†	*	77	234	1,247	1,234	956	493	113	6	0
Abortions^b	1,070†	*	25	58	348	328	189	92	32	0	0
Fetal deaths	50†	0	*	*	8	18	12	*	*	0	0
American Indian or Alaska Native											
Total pregnancies	5,355	10†	190†	420†	1,620	1,553	920†	510†	120†	10†	0†
Births	4,984	7	177	385	1,505	1,471	860	464	109	6	0
Abortions^b	330†	*	13	34	104	75	57	37	*	*	0
Fetal deaths	40†	0	*	*	11	7	*	*	*	0	*
Asian or Pacific Islander											
Total pregnancies	3,774	0	20†	70†	424	1,030†	1,330†	690†	180†	20†	0†
Births	3,235	0	17	46	309	905	1,194	609	139	14	*
Abortions^b	530†	0	*	25	115	127	132	83	42	*	0
Fetal deaths	10†	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; ^a The sum of recorded live births, spontaneous fetal losses and abortions; ^b Abortions include unknown or multiple race.

**TABLE 1A-7
PREGNANCY RATES^a AND NUMBER OF LIVE BIRTHS, FETAL DEATHS, AND
ABORTIONS TO TEENS BY INDIVIDUAL AGE, ARIZONA, 2015**

Age	Population	PREGNANCIES BY OUTCOME			TOTAL PREGNANCIES	
		Live births	Abortions	Spontaneous fetal losses	Number	Rate
10	44,397	0	0	0	0	0.0
11	44,897	0	0	0	0	0.0
12	44,460	0	*	0	*	**
13	45,537	*	8	0	11	0.2
14	46,012	38	15	0	53	1.2
10-14	225,303	41	25	0	66	0.3
15	44,807	193	50	*	247	5.5
16	44,389	472	85	*	560	12.6
17	44,489	917	152	11	1,080	24.3
15-17	133,685	1,582	287	18	1,887	14.1
18	44,477	1,620	352	7	1,979	44.5
19	44,000	2,641	525	23	3,189	72.5
18-19	88,477	4,261	877	30	5,168	58.4
Total 10-19	447,465	5,880†	1,190†	50†	7,120†	15.9

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

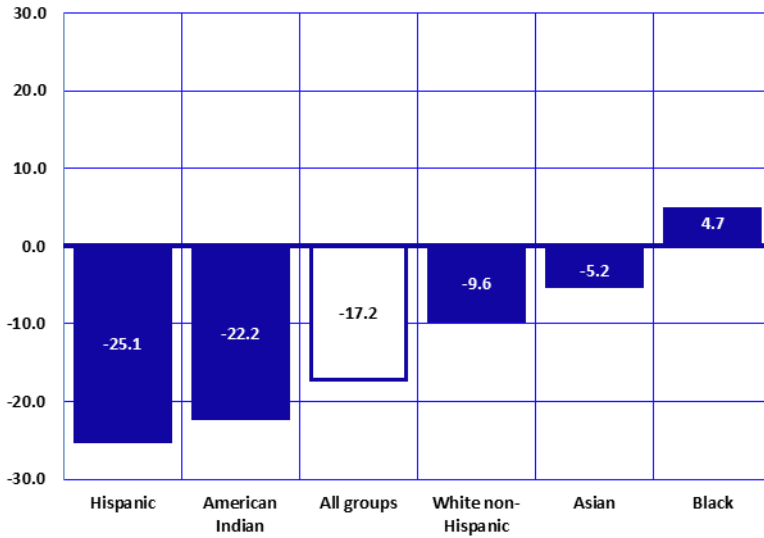
The number of resident births reached its recent peak in 2007 at 102,687 (**Table 1B-2**). In 2008, the number of resident births declined to 99,215; the first annual decline since 1991 (which, like 2008, also was an economic downturn year). Since 2008, the number of births declined until 2013, reaching a low of 84,963 resident births, the lowest number of births recorded in Arizona since 1999 ($n = 80,505$). In 2015, there were 85,024 resident births, representing a reduction from the 86,648 births that occurred in 2014.

There were striking differences in how the number of births changed from 2007 to 2015 by mother's race/ethnicity. Compared to 2007, the number of births for all combined racial/ethnic groups was 17.2 percent lower in 2015, although the number of births rose by 4.7 percent for Black or African American mothers. Hispanic or Latino women experienced a decrease of 25.1 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 479,582 in 2015. 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.

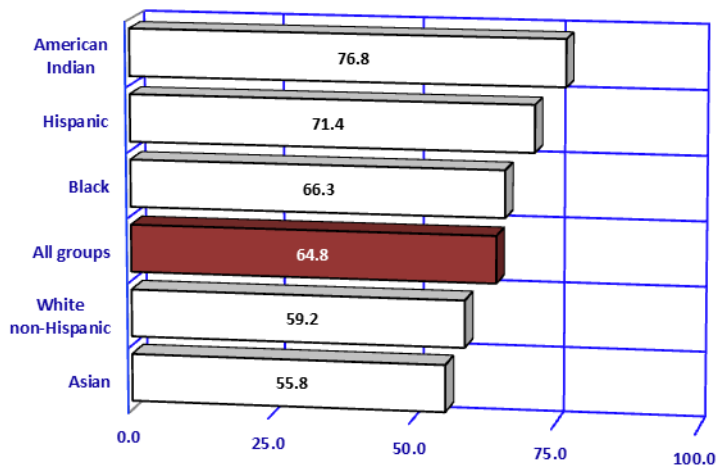
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-1
Percent Change from 2007 to 2015 in the Number of Resident Live Births by
Mother's Race/Ethnicity, Arizona



From 2007 to 2015, the number of resident live births declined by 17.2 percent (**Figure 1B-1**). All racial/ethnic groups experienced a decrease in the number of live births, with exception of Blacks. The magnitude of the reduction in the number of births was the largest among Hispanics or Latinos (-25.1 percent) and American Indians (-22.2 percent).

Figure 1B-2
General Fertility Rates^a by Race/Ethnicity among Females of all Ages,
Arizona, 2015



From among 1,312,687 women of childbearing age (15-44 years), 6.4 percent gave birth in 2015. 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.

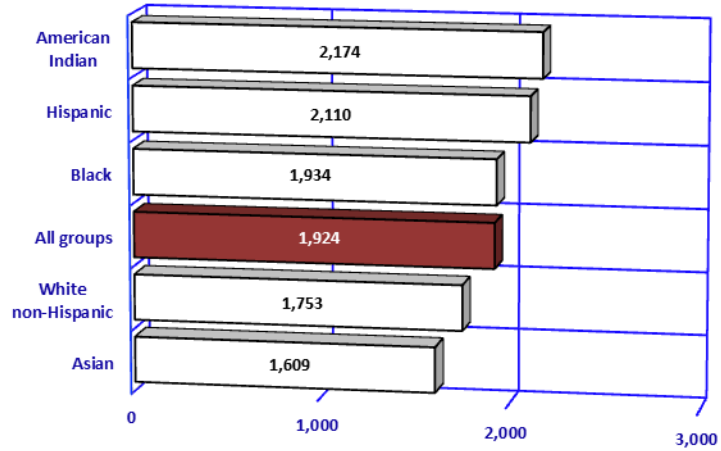
A comparison of fertility rates by county in Arizona is provided in **Table 5A-1**.

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

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

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 1,924 in 2015. The 2015 TFR of 2,174 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.

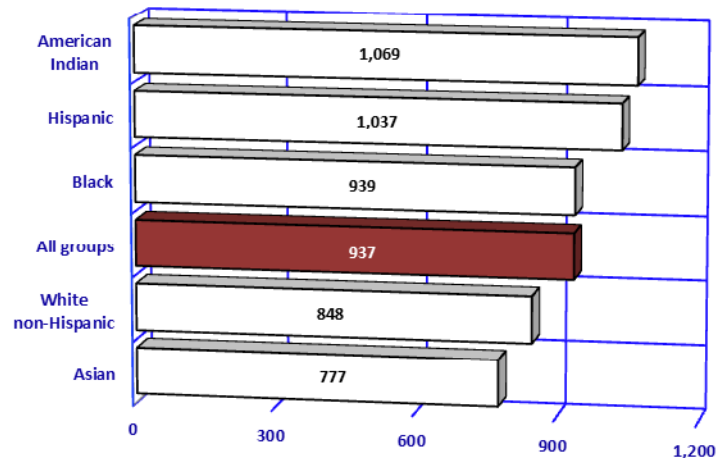
Figure 1B-3
Total Fertility Rates^a by Race/Ethnicity, Arizona, 2015



Notes: ^a The sum of age group-specific birth rates multiplied by five (the number of years in the age group). The rate of 1,924 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 2015, they would have a total of 1,924 children (or 2.0 children each) by the time they reached the end of the reproductive period (taken here as age 50), assuming that all of the women survived to that age.

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 2015, the gross reproduction rates in Arizona ranged from 777 for Asian women to 1,069 for American Indian women (**Figure 1B-4, Table 1B-1**).

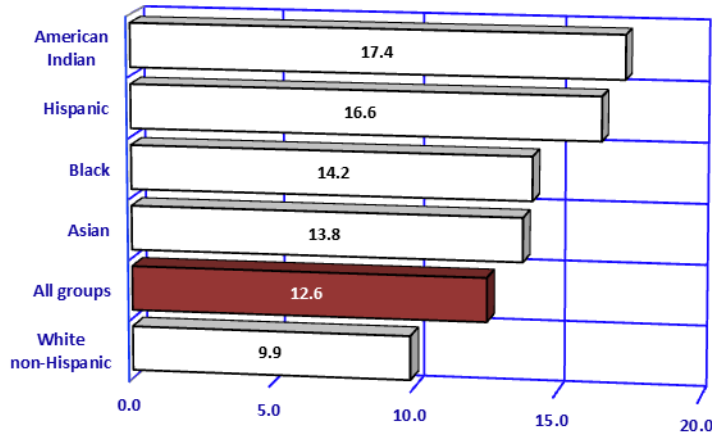
Figure 1B-4
Gross Reproduction Rates^a by Race/Ethnicity, Arizona, 2015



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, 2015



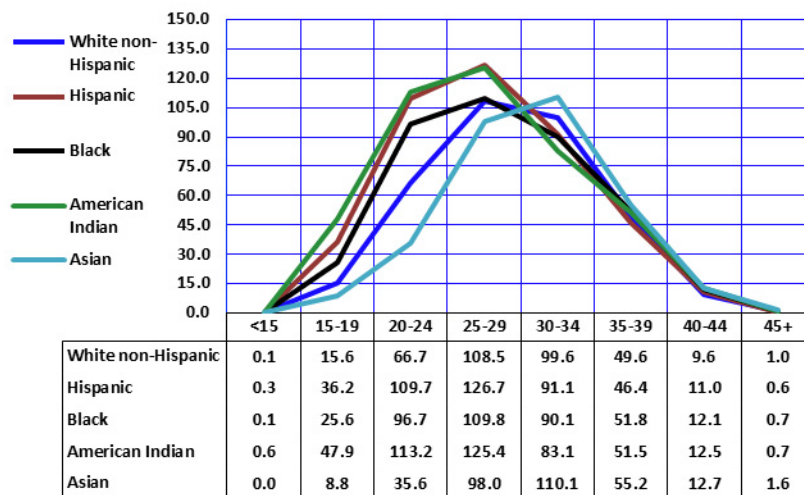
The crude birth rate, often simply called the birth rate, relates the number of births to the total population in a specified group. The birth rate is expressed as the total number of births per 1,000 persons, without regard to the age or sex distribution of the population.

The birth rate for Arizona decreased from 13.0/1,000 in 2014 to 12.6 in 2015.

In 2015 the crude birth rates by mother's race/ethnicity ranged from 9.9 births per 1,000 White non-Hispanics to 17.4 per 1,000 American Indians (**Figure 1B-5**).

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

Figure 1B-6
Birth Rates^a by Mother's Age Group and Race/Ethnicity, Arizona, 2015



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 2015, American Indian and Hispanic women had the highest birth rates for women in age groups up to 29 years. The birth rates for women aged 30 years or older were the highest among Asian women. In general, Hispanic, Black, and American Indian women tend to give birth at younger ages (before the age of 20) than Asian and non-Hispanic White women.

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

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

Unmarried mothers have accounted for an increasing annual proportion of births throughout the 1980s and 1990s, with 45.3 percent in 2015 (**Table 1B-2**). In 2015, 38,479 infants were born to unmarried mothers compared to 40,993 in 2005 (**Table 1B-25**). It is important to note that in 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 56.5 percent. In 2015, nearly 7 out of ten (67.6 percent) mothers 20-24 years old were unmarried (**Figure 1B-7**).

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

Figure 1B-7
Percent Births to Unmarried Mothers by Age Group, Arizona, 2015

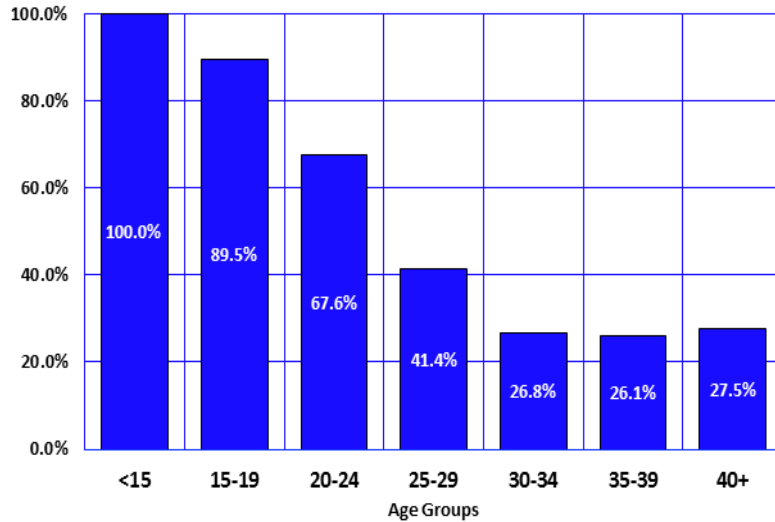
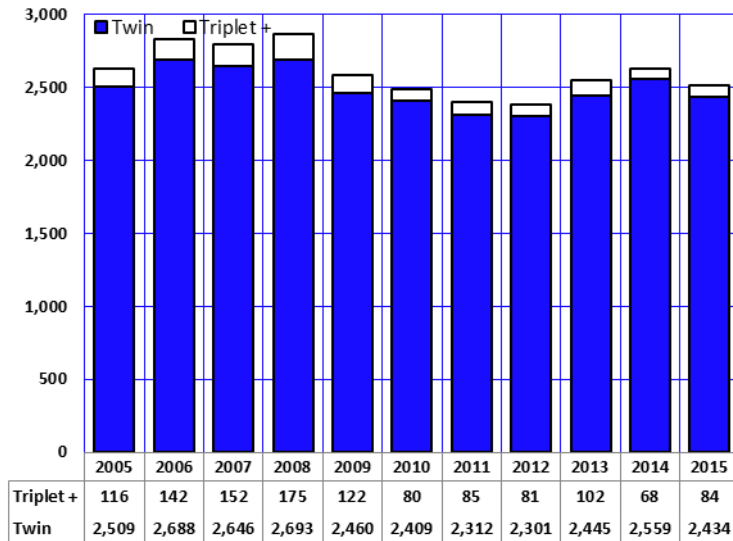


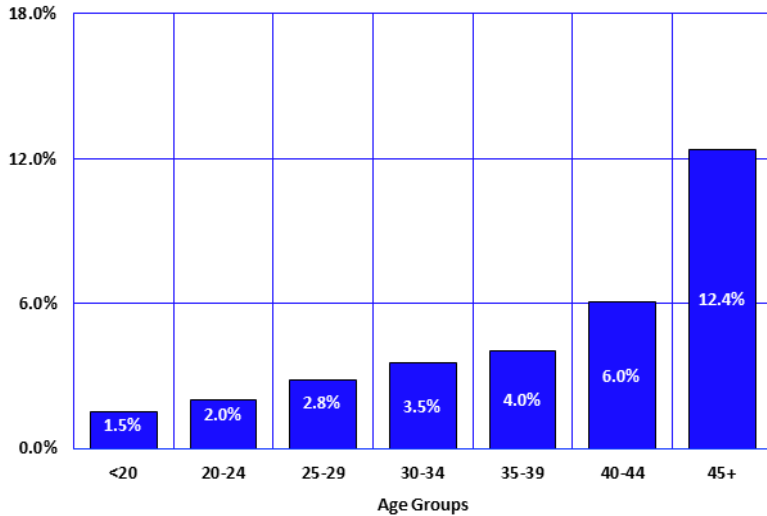
Figure 1B-8
Number of Births in Twin and Triplet+ Deliveries by Year, Arizona, 2005-2015

The number of multiple birth events in Arizona declined from 2,868 in 2008, (the highest number ever recorded) to 2,518 in 2015 (**Figure 1B-8**). The number of babies born in twin deliveries decreased from 2,693 in 2008 to 2,434 in 2015 (**Figure 1B-8**). The number of triplet and higher order multiple birth events decreased by 52.0 percent from 175 in 2008 to 84 in 2015.



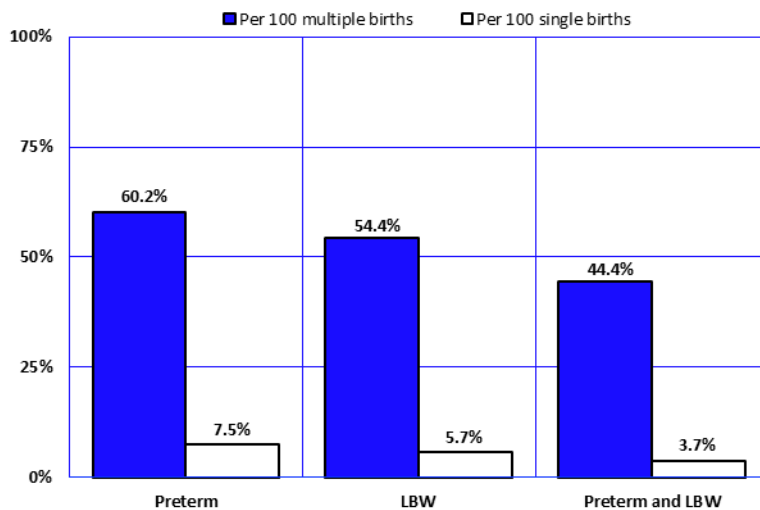
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-9
Multiple Births by Mother's Age Group, Arizona, 2015



In 2015, 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, 12.4 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 decreased from 19.9 percent in 2013 to 15.9 percent in 2014 and 12.4 percent in 2015. Continued monitoring of multiple births among older mothers will help better understand the recent variation that has been found in this measure.

Figure 1B-10
Infants Born too Early (Preterm)^a and Infants Born too Small (LBW)^b among Multiple and Single Births, Arizona, 2015



Infants born in multiple deliveries tend to be born at shorter gestations and smaller than those born in singleton deliveries (**Figure 1B-10**). In 2015, infants born in multiple deliveries were 11.9 times more likely (44.4 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.

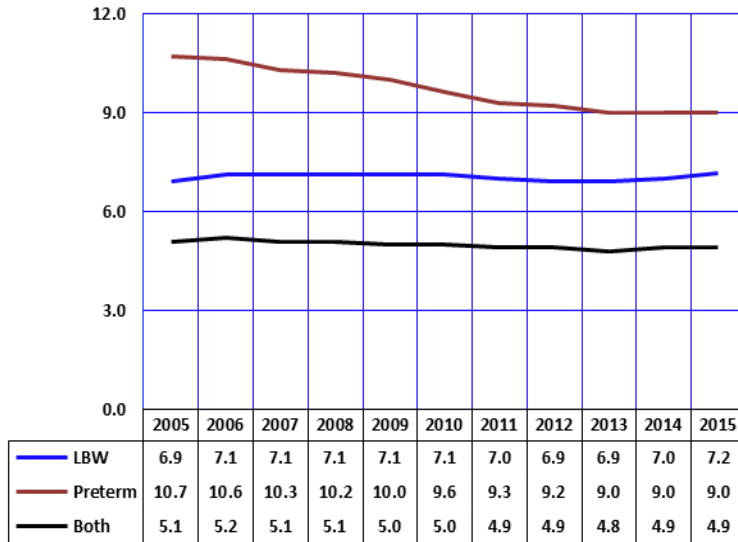
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

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) remained stable at 4.9/100 births in 2015 (**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, 2005-2015

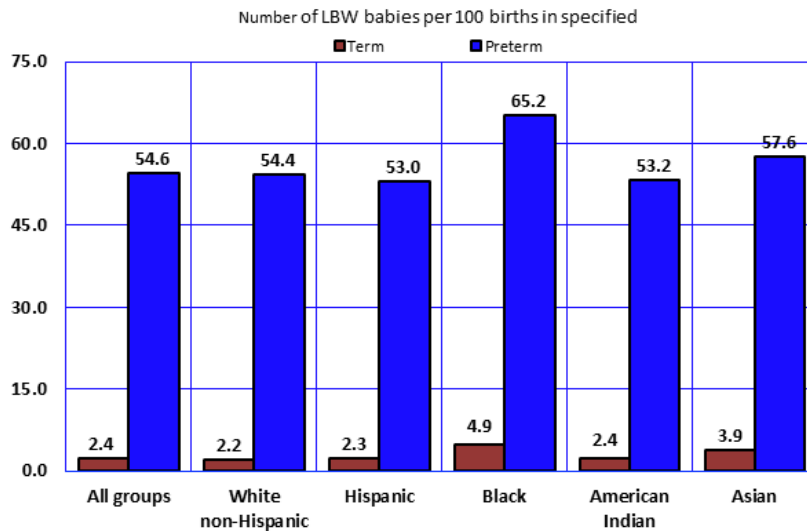


Notes: ^a Preterm: < 37 weeks of gestation; ^b Low birthweight (less than 2,500 grams or 5 pounds 8 ounces); In this report, the primary measure used to determine the gestational age is the clinical estimate of gestation as reported on the birth certificate.

From 2005 to 2015, between 6.9 and 7.2 percent of all babies were born at low birthweight (LBW), or at less than 2,500 grams (5 pounds 8 ounces). Preterm delivery is the strongest risk factor for LBW. Infants born at less than 37 completed weeks of gestation were 22.5 times (54.6 vs. 2.4 percent) more likely to be LBW than infants born at term (**Figure 1B-12**). Seven out of ten (68.8 percent) LBW babies born in 2015 were preterm (**Table 1B-3**).

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

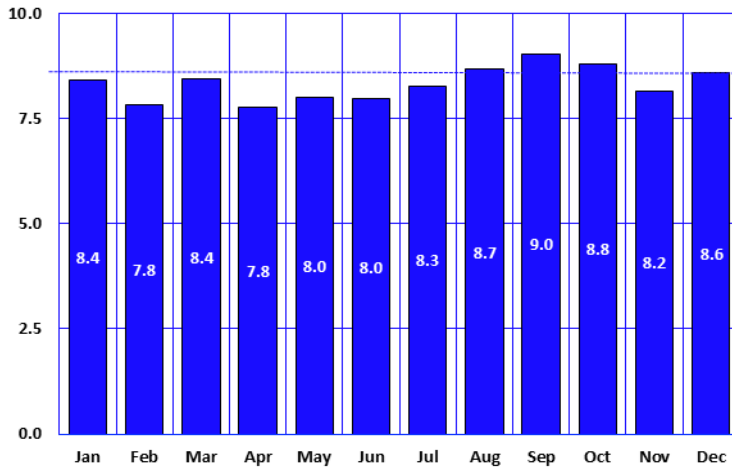
Figure 1B-12
Low-Birthweight (LBW) Births by Length of Gestation and Mother's Race/Ethnicity, Arizona, 2015



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).

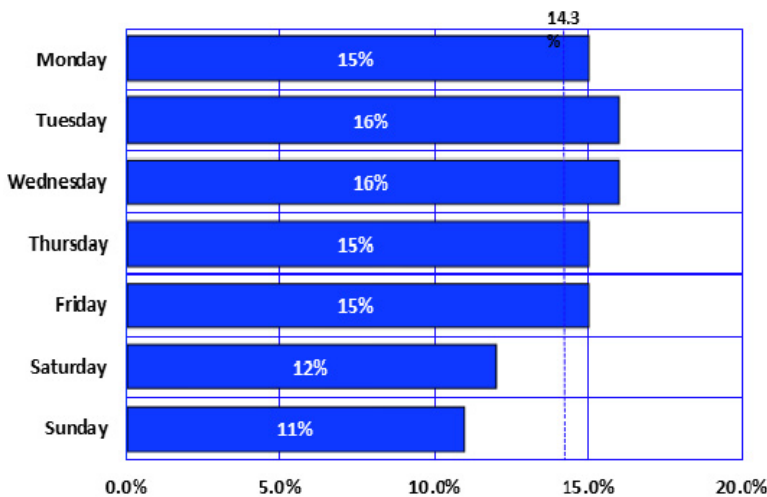
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-13
Percent of Resident Births by Month, Arizona, 2015



Historically, births in Arizona have peaked during August and September, with a monthly average around 8.3 percent. (**Figure 1B-13**). In 2015, the seasonal fluctuation of the frequency of births is marked by peak in August, September, and October.

Figure 1B-14
Percent of Resident Births by Day of the Week, Arizona, 2015



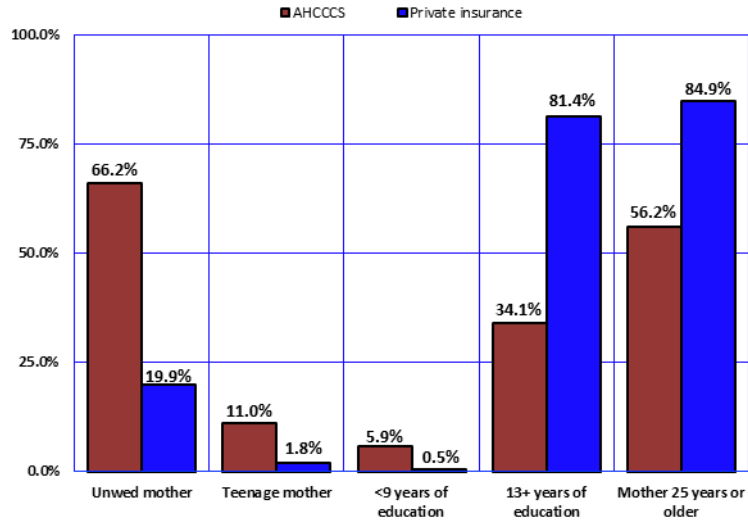
On average 233 infants were born per day in 2015 to Arizona residents. The daily average of resident live births in 2015 was substantially lower on weekends than on weekdays (**Figure 1B-14**). Many studies suggest that weekly, daily, and hourly variations observed in hospitals and clinics are not due 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 2015, only 8.1 percent of cesarean deliveries occurred on Sundays, compared to 17.0 percent on Mondays. The average rate of induction of labor was substantially lower on weekend days (10.8 percent) than it was on week days (15.7 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 2.4 times more likely to have some college education than were AHCCCS mothers (81.4 and 34.1 percent respectively, **Figure 1B-15**). Around 6 percent of AHCCCS mothers had 0-8 years of education, 12.9 times the proportion of PHI mothers. Only 19.9 percent of mothers with PHI were unmarried compared to 66.2 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, 2015

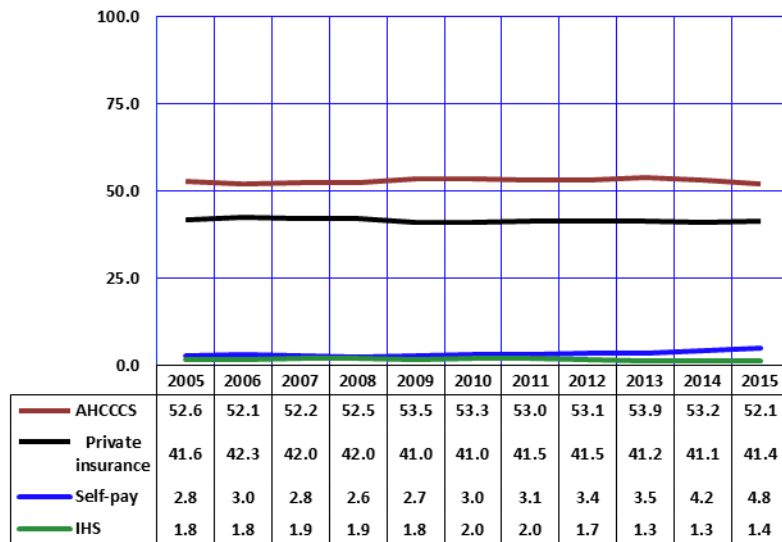


Notes: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.

Since 2002, the share of resident births paid for by AHCCCS has exceeded the share paid by private health insurance (**Figure 1B-16**). In 2005, private insurance funded 41.6 percent of births and AHCCCS paid for 52.6 percent of births. Compared to 2005, AHCCCS paid for 1.0 percent fewer births in 2015 and private insurance paid for 0.5 percent fewer births in 2015.

The share of AHCCCS funded births varied little from 2005 to 2015. The share of private health insurance also remained stable during this time period. In 2015, 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-27**); see also **Table 1B-25**).

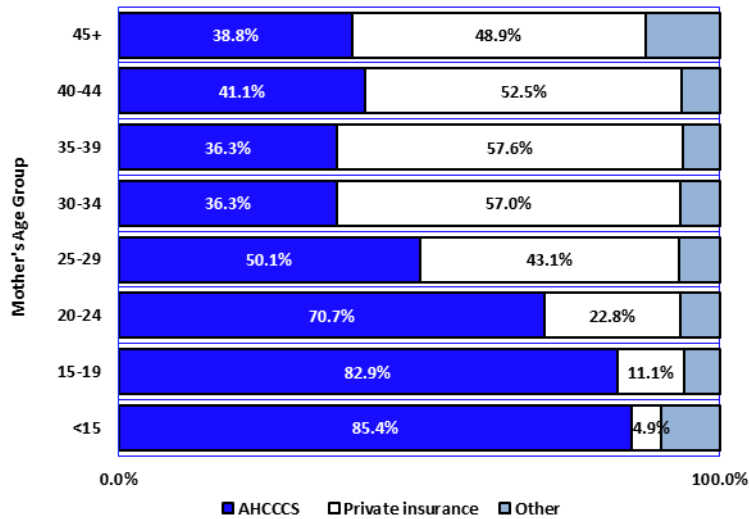
Figure 1B-16
Births by Payer and Year, Arizona, 2005-2015



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
Payee for Delivery by Mother's Age Group, Arizona, 2015



In 2015, 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 2015 (based on data in **Table 1B-28**).

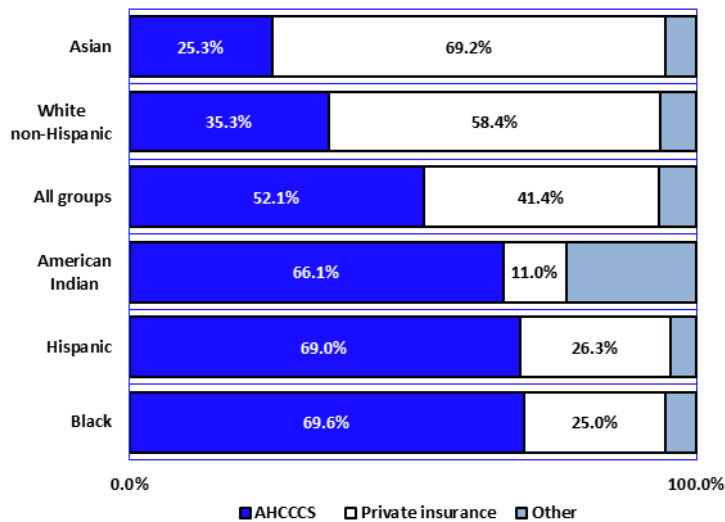
For each of the age groups the AHCCCS share substantially increased since 1989. Below are the proportions of deliveries paid for by AHCCCS in 1989:

- <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 2015, the share of births paid for by AHCCCS more than doubled among mothers 20 years old or older.

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

Figure 1B-18
Payee for Delivery by Mother's Race/Ethnicity, Arizona, 2015



In 2015, private insurance was the largest payer for deliveries of Asian (69.2 percent) and White non-Hispanic infants (at 58.4 percent). In contrast, the Arizona Health Care Cost Containment System was the largest payer for deliveries of Black or African American (69.6 percent), Hispanic or Latino (69.0 percent), and American Indian women (66.1 percent).

The Indian Health Service as a payer accounted for 20.7 percent of deliveries of American Indian or Alaska Native infants in the State (**Figure 1B-18**, based on data in **Table 1B-27**).

Hispanics or Latinos accounted for 53.4 percent of the 44,261 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**).

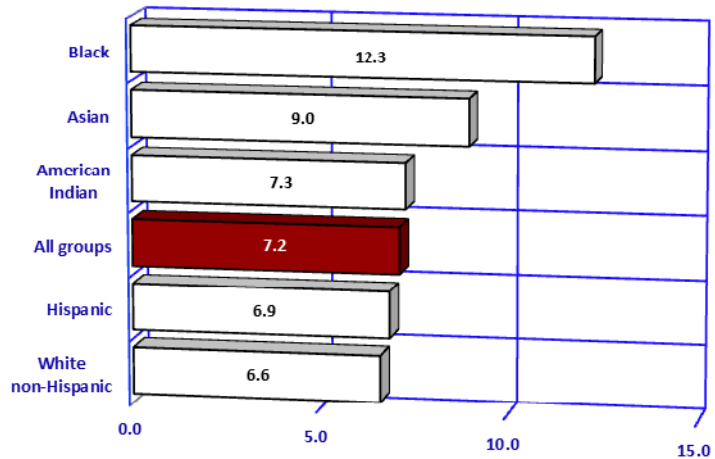
Notes: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program; Other includes Indian Health Service, self-pay, or unknown.

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

Figure 1B-19
Percent Low Birthweight^a by Mother's Race/Ethnicity,
Arizona Residents, 2015

In 2015, 7.2 percent of all Arizona infants were born at a low birthweight (LBW), or at less than 2,500 grams (5 pounds 8 ounces).

In Arizona, LBW rates differed by mother's racial/ethnic group. LBW rates were highest for newborns of Black or African American mothers (12.3 percent), Asian or Pacific Islander mothers (9.0 percent), and American Indian mothers (7.3 percent). Newborns of Hispanic or Latino and White non-Hispanic had the lowest LBW rates (6.9, 6.6 percent respectively; based on data in **Table 1B-25**).

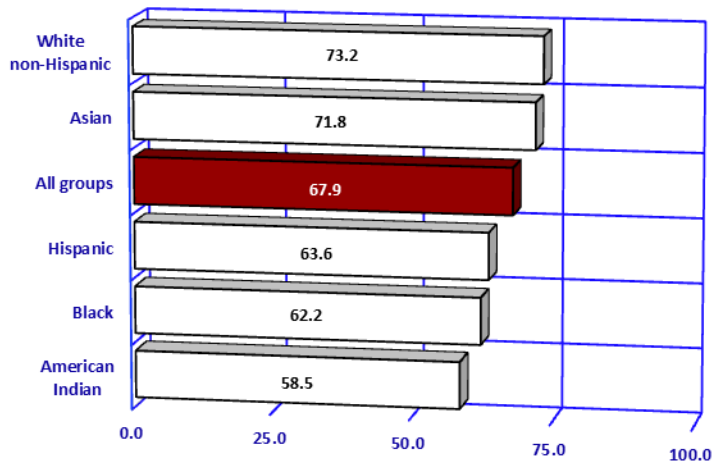


Notes: ^a Low birthweight is less than 2,500 grams (less than 5 pounds 8 ounces).

The percent of Arizona mothers giving birth who received early prenatal care (i.e., in the first trimester) has remained relatively stable from 2008 (79.4 percent) to 2013 (81.3 percent; **Table 1B-2**). In 2015, only 67.9 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 2015 may be attributable for the most part to differences in reporting.

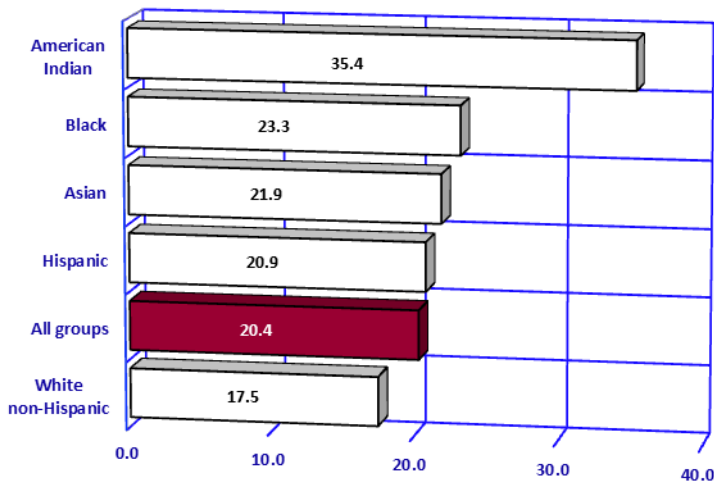
In Arizona, American Indian, Black or African American, and Hispanic or Latino mothers were least likely to begin prenatal care in the first trimester (**Figure 1B-20**). Timely entry to prenatal care was essentially reported among White non-Hispanic and Asian or Pacific Islander mothers based on data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

Figure 1B-20
First Trimester Prenatal Care by Mother's Race/Ethnicity,
Arizona Residents, 2015



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

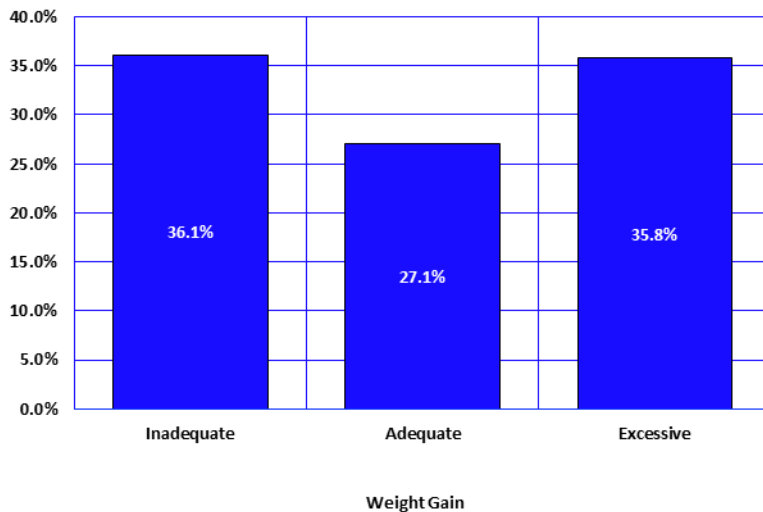
Figure 1B-21
Maternal Medical Risk Factors^a by Mother's Race/Ethnicity, Arizona, 2015



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

Maternal medical risk factors (such as, diabetes, hypertension, eclampsia, or sexually transmissible diseases) can contribute to serious pregnancy complications and infant deaths, if not treated properly. In 2015, American Indian or Alaskan Native, Black or African American, Asian, and Hispanic women giving birth had the highest proportion of medical risk factors (35.4, 23.3, 21.9, and 20.9 percent respectively; **Figure 1B-21**).

Figure 1B-22
Low-Birthweight by Maternal Weight Gain during Pregnancy, Arizona, 2015



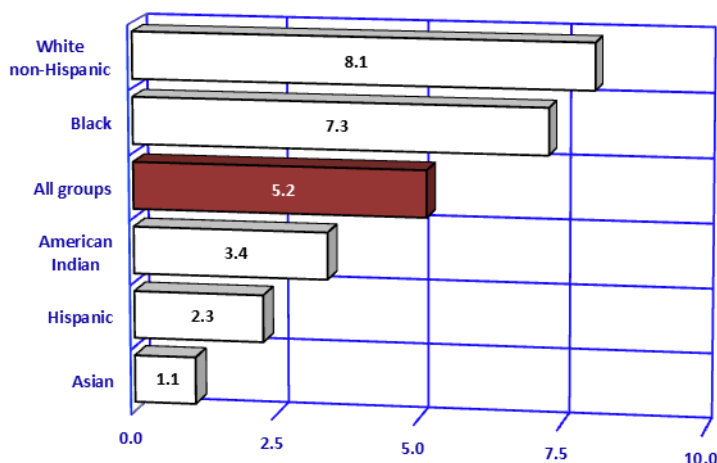
Maternal weight gain during pregnancy is a determinant of both fetal growth and birthweight. Insufficient or excessive weight gain during pregnancy can negatively influence outcomes of both mother and infant. Based on the Institute of Medicine guidelines, women who are of normal weight (body mass index 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 2015, 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, 2015

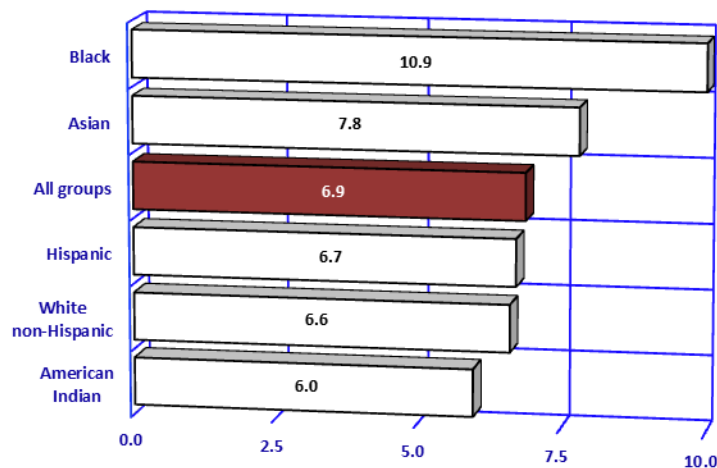
Cigarette smoking during pregnancy has been associated with reduced infant weight at birth, intrauterine growth retardation, and preterm births. Smoking during pregnancy was reported by 5.2 percent of women giving birth in 2015 (**Table 1B-25, Table 5B-30**), compared to 10.5 percent in 1989, when this 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, 2015

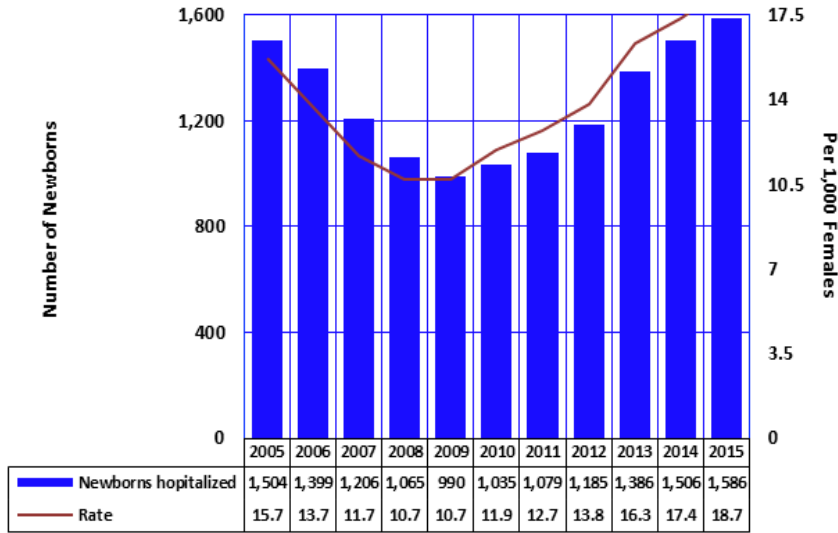
In 2015, 5,861, or 6.9 percent of newborns were admitted to newborn intensive care units (NICUs). Around 44.9 percent of the NICU admissions were low birthweight (LBW) babies. Prematurity, i.e., gestational age before 37 weeks captured more NICU admissions than did LBW, with 53.0 percent of NICU admissions being premature (based on data in **Table 1B-32**). The proportion of NICU admissions differed among racial/ethnic groups. In 2015 the rate of NICU admissions for Black or African American births was the highest among racial/ethnic groups (10.9 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

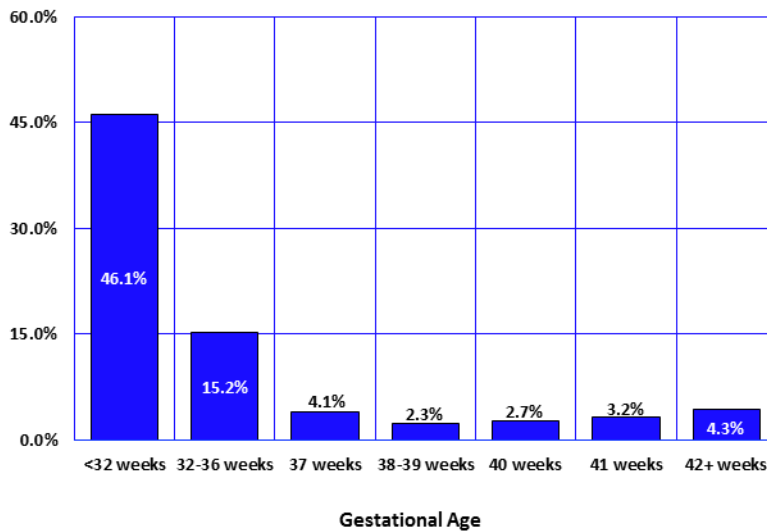
Figure 1B-25
Newborns Who Were Hospitalized after Birth because They Were Affected by Maternal Use of Drugs during Pregnancy, Arizona, 2005-2015



Information about maternal drug use during pregnancy is not reported on Arizona birth certificates. However, it can be obtained from the hospital discharge database. There are several diagnostic codes which identify exposure of fetus or newborn to specific noxious substances (such as narcotics, hallucinogenic agents, or cocaine) transmitted via placenta or breast milk. Following the four years of decline between 2005 and 2009 in the number of newborns hospitalized after birth due to maternal drug use during pregnancy, the rate increased from 10.7/1,000 in 2009 to 18.7/1,000 in 2015, representing a 74.3 percent increase.

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, 2015



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

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

Figure 1B-27
The Incidence of Down Syndrome by Mother's Age Group, Arizona, 2015

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 mental retardation, was substantially higher for births to mothers aged 35 years and older (**Figure 1B-27, Table 1B-33**). The incidence rate of 240.2 cases of Down's Syndrome per 100,000 births to women 35 years or older was 12.7 times greater than the incidence rate of 18.9 for women aged 24 years or younger.

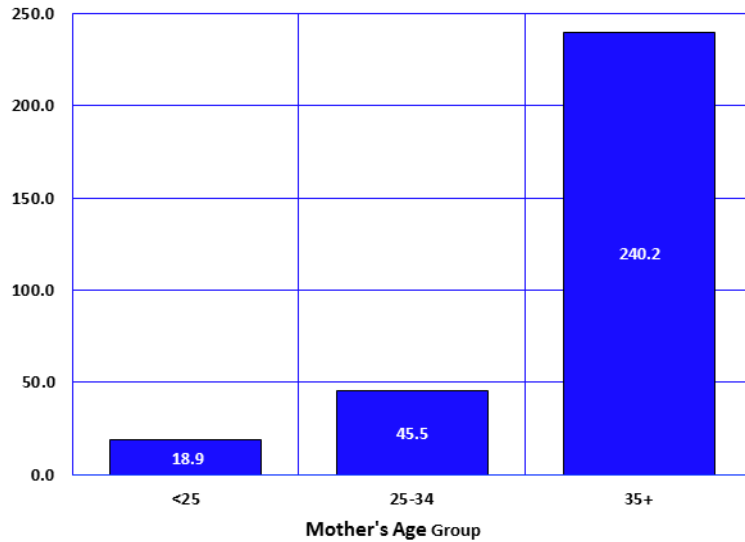


TABLE 1B-1
BIRTH RATE^a, GENERAL FERTILITY RATE^b, TOTAL FERTILITY RATE^c,
GROSS REPRODUCTION RATE^d, AND AGE-SPECIFIC BIRTH RATES^e BY YEAR,
ARIZONA AND UNITED STATES, 2005-2015

Year	Area	Birth rate	General fertility rate	Total fertility rate	Gross reproduction rate	Age specific birth rates:							
						Under 15 years	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years
2005	AZ	15.8	74.7	2,278	1,111	0.9	56.5	129.8	125.3	94.5	39.3	8.6	0.6
	U.S.	14.0	66.7	2,054	NA	0.7	40.5	102.2	115.6	95.9	46.3	9.1	0.6
2006	AZ	16.4	80.0	2,392	1,167	0.8	59.6	131.8	132.5	95.6	48.5	9.3	0.3
	U.S.	14.2	68.5	2,101	NA	0.6	41.9	105.9	116.8	97.7	47.3	9.4	0.6
2007	AZ	16.0	78.9	2,364	1,154	0.8	59.5	132.2	124.7	98.6	46.8	9.5	0.7
	U.S.	14.3	69.5	2,122	NA	0.6	42.5	106.3	117.5	99.9	47.5	9.5	0.6
2008	AZ	15.2	74.8	2,236	1,093	0.7	54.9	122.2	119.5	94.2	46.2	9.0	0.6
	U.S.	14.0	68.6	2,084	NA	0.6	41.5	103.0	115.1	99.3	46.9	9.8	0.7
2009	AZ	14.0	68.9	2,058	1,006	0.6	49.1	110.4	110.7	88.6	42.5	8.9	0.8
	U.S.	13.5	66.7	2,007	NA	0.5	39.1	96.3	110.5	97.7	46.5	10.1	0.7
2010	AZ	13.6	68.9	2,058	1,011	0.5	41.6	104.3	116.1	94.4	44.4	9.7	0.7
	U.S.	13.0	64.1	1,931	NA	0.4	34.2	90.0	108.3	96.5	45.9	10.2	0.7
2011	AZ	13.2	67.0	2,001	976	0.5	36.9	101.4	112.3	94.0	44.2	10.3	0.2
	U.S.	12.7	63.2	1,894	NA	0.4	31.3	85.3	107.2	96.5	47.2	10.3	0.7
2012	AZ	13.2	67.2	2,018	984	0.3	35.4	100.1	116.4	94.6	459.0	10.3	0.6
	U.S.	12.6	63.0	1,881	NA	0.4	29.4	83.1	106.5	97.3	48.3	10.4	0.7
2013	AZ	12.9	66.0	1,981	963	0.3	31.3	96.7	118.4	93.0	46.4	9.8	0.1
	U.S.	12.5	62.5	1,870	NA	0.3	26.6	81.2	106.2	98.7	49.6	10.5	0.8
2014	AZ	13.0	66.7	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

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 2015 TFR of 1,924 can be interpreted at the individual level as the average number of children a female resident would have by age 50 ($1,924/1000 = 2$ live births) if she were subject throughout her life to the age-specific birth rates observed in 2015.

^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 2005-2015.

^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, ARIZONA, 2005-2015
(ALL RACE/ETHNIC GROUPS)

Characteristic	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of births	95,798	102,042	102,687	99,215	92,616	87,053	85,190	85,725	84,963	86,648	85,024
Age of mother											
≤19 years	12.5	12.7	12.6	12.3	11.8	10.8	9.9	9.5	8.5	7.6	6.9
≥30 years	32.2	31.6	32.3	33.1	33.8	35.0	36.1	36.7	37.2	38.8	39.3
Marital status											
Unmarried	42.8	43.9	45.0	45.1	45.2	44.7	44.3	45.2	45.1	44.7	45.3
Mother's education											
<9 years	8.7	8.2	7.8	6.9	6.1	5.3	4.6	4.3	3.8	3.7	3.5
Mother's race/ethnicity											
White ^b	41.4	42.2	41.1	42.3	43.0	44.5	45.0	45.1	45.0	46.3	44.9
Hispanic	44.0	44.0	44.5	43.0	41.4	39.4	38.0	38.7	38.9	38.9	40.3
Black	3.6	3.8	4.1	4.3	4.7	5.0	5.1	5.5	5.6	5.2	5.1
American Indian	6.6	6.2	6.2	6.4	6.7	6.7	6.8	6.5	6.4	5.9	5.9
Asian or Pacific Islander	4.4	3.9	4.0	4.1	4.2	4.4	5.0	4.2	4.1	3.7	3.8
Prenatal care begin											
1 st Trimester	77.7	77.7	77.6	79.4	80.3	81.9	81.7	82.6	81.3	66.0	67.9
3 rd Trimester	3.8	3.7	3.7	3.6	3.4	3.2	3.1	3.2	3.6	5.3	5.5
No Care	2.3	2.4	2.2	1.8	1.8	1.6	1.6	1.2	1.4	2.1	2.2
Prenatal visits											
1-4	4.2	4.0	3.9	3.6	3.5	3.3	3.4	3.6	3.8	4.4	4.4
≥5	93.3	93.5	93.9	94.5	94.5	94.9	94.5	94.9	94.7	92.1	92.2
≥9	76.6	76.4	76.7	77.8	78.9	80.5	80.6	81.3	81.2	77.6	77.0
≥13	25.9	27.5	29.4	29.9	30.0	31.6	33.7	34.6	34.8	30.7	30.4
Medical risk/ Complications^c	44.7	44.3	45.3	46.5	48.1	49.7	46.3	52.4	55.5	18.0	20.4
Gestational age^d											
Preterm (<37 weeks)	10.7	10.6	10.3	10.2	10.0	9.6	9.3	9.2	9.0	9.0	9.0
Birth weight											
<2,500 grams	6.9	7.1	7.1	7.1	7.1	7.1	7.0	6.9	6.9	7.0	7.2
<1,500 grams	1.2	1.2	1.2	1.2	1.2	1.1	1.2	1.2	1.1	1.2	1.1
Child's sex											
Male	51.2	51.2	51.2	51.1	51.1	50.9	51.2	51.2	51.4	51.3	51.3
Female	48.8	48.8	48.8	48.9	48.9	49.1	48.8	48.8	48.6	48.7	48.7
Plurality											
Multiple births	2.7	2.8	2.7	2.9	2.8	2.9	2.8	2.8	3.0	3.0	3.0
Caesarean delivery	25.0	26.0	26.6	27.5	27.7	27.6	27.9	27.6	27.8	27.7	27.5
Place of delivery											
Hospital ^e	98.9	98.9	99.0	99.0	98.8	98.8	98.5	98.6	98.7	98.5	98.5
Attendant at birth											
Midwife ^f	6.1	5.6	5.7	6.1	6.5	6.6	6.4	7.2	7.4	10.2	11.8
Previous live births											
1 or more	63.0	62.5	63.1	63.3	63.1	63.0	62.6	62.7	63.6	64.0	64.3

Notes: ^a Rates per 100 births.

^b Non-Hispanic.

^c Reported medical risks for this pregnancy and/or complications of labor and delivery.

^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, ARIZONA, 2005-2015
(ALL RACE/ETHNIC GROUPS)

Characteristic	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of births	6,640	7,266	7,285	7,026	6,573	6,155	5,949	5,946	5,849	6,069	6,093
Age of mother											
≤19 years	14.2	14.5	14.2	13.2	13.1	12.3	11.6	10.7	8.9	7.8	7.8
≥30 years	33.5	34.3	34.7	35.8	37.4	37.8	37.9	39.4	37.9	40.9	42.0
Marital status											
Unmarried	48.3	48.3	49.2	48.6	48.5	49.4	50.0	51.4	51.3	49.1	47.5
Mother's education											
<9 years	8.3	7.8	7.7	6.3	5.7	4.7	4.5	4.5	4.2	3.8	3.5
Mother's race/ethnicity											
White ^b	41.1	39.8	40.9	41.0	41.5	41.9	43.5	42.1	42.0	44.7	41.7
Hispanic	40.8	42.3	41.5	40.8	38.7	38.1	34.9	37.9	37.6	37.0	38.8
Black	6.6	6.7	7.3	7.2	8.5	8.0	9.2	9.3	8.9	8.8	8.8
American Indian	6.9	6.5	5.8	6.1	6.0	6.6	6.8	6.3	6.7	5.2	6.0
Asian or Pacific Islander	4.7	4.7	4.5	5.0	5.2	5.4	5.7	4.4	4.7	4.2	4.8
Prenatal care began											
1st Trimester	77.4	77.2	77.4	79.5	80.6	81.0	81.2	80.0	78.9	63.6	65.0
3rd Trimester	2.7	2.8	3.1	2.9	2.6	2.7	2.3	2.7	3.4	4.1	3.9
No Care	4.7	4.9	4.5	3.8	3.6	3.2	3.2	2.9	2.9	4.8	5.2
Prenatal visits											
1-4	9.4	8.5	8.2	7.7	7.6	7.5	7.3	8.6	8.2	8.6	9.4
≥5	85.6	86.3	87.1	88.2	88.3	88.8	88.5	87.9	88.5	84.8	83.1
≥9	60.3	60.1	61.2	63.0	64.1	65.2	65.0	65.5	66.4	60.4	58.1
≥13	22.1	21.9	25.1	25.6	25.7	27.1	28.5	26.7	27.7	22.1	20.2
Medical risks/											
Complications^c											
67.2	65.1	65.9	68.7	70.5	73.3	69.2	73.2	72.5	33.3	37.0	
Gestational age^d											
Preterm (<37 weeks)	73.7	72.7	72.3	71.7	71.2	70.2	70.1	71.2	70.2	69.4	68.8
Birth weight											
<1,500 grams	16.9	16.9	16.8	16.5	16.7	15.3	16.8	16.6	15.8	16.8	16.0
<1,000 grams	8.7	7.7	8.1	7.7	8.0	7.1	8.3	8.1	7.4	8.4	7.4
Child's sex											
Male	47.1	47.5	47.9	48.1	47.8	46.5	46.8	48.7	49.3	47.7	47.4
Female	52.9	52.5	52.1	51.9	52.2	53.5	53.2	51.3	50.7	52.3	52.6
Plurality											
Multiple births	22.2	22.5	23.1	23.3	22.1	23.1	22.8	23.0	24.4	23.7	22.5
Caesarean delivery											
42.5	43.2	44.2	46.7	46.4	46.5	46.8	47.7	47.6	47.4	48.6	
Place of delivery											
Hospital^e											
99.6	99.7	99.6	99.7	99.8	99.6	99.4	99.7	99.7	99.7	99.7	99.5
Attendant at birth											
Midwife^f											
2.5	1.9	2.5	2.6	2.3	2.6	2.3	2.5	2.7	9.5	10.5	
Previous live births											
1 or more	58.3	59.6	60.5	60.5	59.7	60.3	59.6	61.4	60.5	61.4	60.9

Notes: ^a Rates per 100 births.

^b Non-Hispanic.

^c Reported medical risks for this pregnancy and/or complications of labor and delivery.

^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, ARIZONA, 2005-2015
(URBAN REGIONS)^b

Characteristic		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of births		82,141	87,910	88,266	85,263	79,046	74,624	73,040	74,128	73,493	74,677	73,547
Age of mother	≤19 years	12.0	12.3	12.1	11.7	11.2	10.3	9.4	9.0	8.2	7.3	6.6
	≥30 years	32.9	32.5	33.3	34.1	35.1	36.2	37.4	37.9	38.4	40.0	40.6
Marital status	Unmarried	41.9	43.0	44.3	44.1	44.2	43.6	43.2	44.1	44.1	43.6	44.1
Mother's education	<9 years	9.3	8.8	8.3	7.4	6.5	5.6	4.9	4.7	4.0	3.9	3.7
Mother's race/ethnicity	White ^c	40.8	41.5	40.2	41.5	42.1	44.1	45.0	44.6	44.3	45.7	44.5
	Hispanic	46.9	46.7	47.5	45.8	44.4	42.0	40.5	40.9	41.3	41.3	42.5
	Black	4.0	4.2	4.5	4.8	5.3	5.6	5.7	6.1	6.2	5.9	5.8
	American Indian	3.4	3.5	3.5	3.5	3.6	3.6	3.7	3.7	3.7	3.1	3.1
	Asian or Pacific Islander	4.8	4.1	4.3	4.3	4.6	4.7	5.0	4.7	4.5	4.0	4.2
Prenatal care began	1st Trimester	78.4	78.4	78.2	80.4	81.5	83.1	82.5	83.4	82.1	66.6	68.3
	3rd Trimester	3.6	3.5	3.5	3.3	3.0	2.9	2.9	3.1	3.5	5.2	5.3
	No care	2.4	2.4	2.2	1.7	1.9	1.6	1.6	1.2	1.3	2.1	2.1
Prenatal visits	1-4	3.9	3.7	3.5	3.1	3.0	2.9	3.0	3.2	3.5	4.0	4.1
	≥5	93.7	93.7	94.2	95.1	94.9	95.4	94.8	95.3	95.1	92.4	92.6
	≥9	77.4	77.2	77.5	79.1	80.1	81.9	81.8	82.4	82.3	78.7	78.2
	≥13	25.5	27.5	29.6	30.1	30.6	32.1	34.1	35.1	35.3	31.1	31.0
Medical risks/complications^d		42.4	42.8	44.4	46.3	48.6	50.1	47.2	52.5	56.1	17.8	20.3
Gestational age^e	Preterm (<37 weeks)	10.8	10.7	10.3	10.2	10.1	9.7	9.4	9.2	9.1	9.1	9.0
Birth weight	<2,500 grams	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.8	7.0	7.1
	<1,500 grams	1.2	1.2	1.2	1.2	1.2	1.1	1.2	1.2	1.1	1.2	1.1
Child's sex	Male	51.1	51.2	51.3	51.0	51.3	50.8	51.2	51.2	51.4	51.3	51.3
	Female	48.9	48.8	48.7	49.0	48.7	49.2	48.8	48.8	48.6	48.7	48.7
Plurality	Multiple births	2.8	2.8	2.8	3.0	2.8	3.0	2.9	2.9	3.1	3.1	3.0
Caesarean delivery		25.4	26.0	26.8	27.8	28.1	28.0	28.3	27.9	28.1	28.1	27.9
Place of delivery	Hospital ^f	99.2	99.2	99.3	99.3	99.1	99.0	98.8	98.7	98.7	98.7	98.6
Attendant at birth	Midwife ^g	5.0	4.5	4.6	5.1	5.5	5.4	5.2	6.3	6.3	10.1	12.1
Previous live births	1 or more	62.9	62.3	62.9	63.1	62.9	62.8	62.4	62.6	63.4	63.7	64.0
Number of LBW births		5,630	6,175	6,205	5,974	5,548	5,238	5,065	5,096	5,013	5,232	5,199
Age of mother	≤19 years	13.7	14.3	13.7	12.6	12.7	12.1	10.9	10.2	8.8	7.3	7.4
	≥30 years	33.9	35.3	35.9	37.0	38.5	38.8	39.3	40.4	39.3	42.0	43.6
Marital status	Unmarried	47.2	47.2	48.6	47.4	48.1	48.4	49.0	50.1	50.8	48.3	49.5
Mother's education	<9 years	8.9	8.2	8.2	6.7	5.8	5.2	4.9	4.7	4.3	4.0	3.6
Mother's race/ethnicity	White ^c	40.5	39.1	39.6	39.8	40.5	41.1	42.8	41.1	40.9	43.3	40.4
	Hispanic	43.7	44.6	44.2	43.6	40.9	40.5	37.2	40.2	39.8	39.4	41.3
	Black	7.4	7.6	8.3	8.0	9.8	9.1	10.3	10.4	10.2	9.9	10.0
	American Indian	3.5	3.8	3.1	3.2	3.0	3.5	3.4	3.3	4.0	2.7	3.0
	Asian or Pacific Islander	4.9	4.9	4.8	5.5	5.7	5.7	6.3	4.9	5.1	4.6	5.3
Prenatal care began	1st Trimester	78.0	78.1	77.6	80.2	81.3	82.1	81.9	80.5	79.8	63.8	66.0
	3rd Trimester	2.4	2.6	2.9	2.6	2.2	2.4	2.0	2.6	3.3	4.1	3.8
	No care	4.7	4.9	4.5	3.9	3.8	3.0	3.0	2.8	2.7	4.9	4.8
Prenatal visits	1-4	9.3	8.4	8.1	7.3	7.2	7.1	7.0	7.8	7.8	8.4	8.9
	≥5	85.8	86.5	87.3	88.6	88.7	89.5	88.8	88.9	89.1	84.8	84.1
	≥9	60.9	60.6	61.7	63.7	65.0	66.6	65.8	66.5	67.7	60.8	59.6
	≥13	22.1	22.4	25.6	25.7	26.3	28.1	29.1	27.3	28.4	22.6	20.6
Medical risks/complications^d		65.7	64.4	66.0	69.6	71.8	74.6	70.8	74.2	73.7	33.2	36.8
Gestational age^e	Preterm (<37 weeks)	75.0	73.5	72.9	72.7	72.2	70.6	71.2	71.3	70.8	70.7	69.5
Birth weight	<1,500 grams	17.2	17.1	17.1	16.8	17.2	15.3	17.4	16.9	15.9	17.0	16.0
	<1,000 grams	9.0	8.0	8.3	8.0	8.3	7.3	8.7	8.4	7.6	8.6	7.7
Child's sex	Male	46.8	47.1	48.2	47.9	48.0	45.9	47.0	48.6	49.2	48.1	47.8
	Female	53.2	52.9	51.8	52.1	52.0	54.1	53.0	51.4	50.8	51.9	52.2
Plurality	Multiple births	22.9	23.2	24.4	23.9	22.8	24.0	23.3	23.9	25.2	24.3	23.4
Caesarean delivery		43.1	43.4	45.1	47.4	47.2	47.0	47.7	48.7	48.0	48.3	49.2
Place of delivery	Hospital ^f	99.7	99.8	99.7	99.8	99.8	99.7	99.5	99.8	99.8	99.8	99.7
Attendant at birth	Midwife ^g	1.8	1.4	1.9	2.2	1.9	2.1	1.6	2.0	2.2	9.5	10.6
Previous live births	1 or more	58.1	58.9	60.1	59.8	59.7	59.3	59.2	61.2	60.0	61.4	60.6

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

^c Non-Hispanic.

^d Reported medical risks for this pregnancy and/or complications of labor and delivery.

^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, ARIZONA, 2005-2015
(RURAL REGIONS)^b**

Characteristic		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of births		13,603	14,083	14,413	13,952	13,570	12,429	12,150	11,597	11,470	11,955	11,467
Age of mother	≤19 years	15.5	14.9	15.8	15.4	15.4	13.9	12.7	12.2	10.6	9.8	9.0
	≥30 years	27.9	26.6	26.2	26.8	26.7	27.9	28.2	29.3	29.4	31.3	30.9
Marital status	Unmarried	48.4	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	5.4	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	45.0	46.5	46.6	46.7	48.1	47.2	47.9	48.7	49.1	49.8	47.7
	Hispanic	26.3	26.7	26.6	25.7	24.3	24.4	23.0	24.1	24.0	24.2	26.4
	Black	1.0	1.1	1.1	1.3	1.2	1.2	1.4	1.5	1.3	0.9	0.9
	American Indian	25.4	23.5	23.2	24.4	24.4	25.0	25.7	24.2	24.0	23.5	23.6
	Asian or Pacific Islander	2.2	2.2	2.6	2.0	2.1	2.2	2.0	1.5	1.7	1.5	1.4
Prenatal care began	1st Trimester	73.9	73.5	73.7	72.7	73.3	74.8	77.1	77.7	76.3	62.5	64.8
	3rd Trimester	4.7	4.9	4.8	5.2	5.5	5.3	4.1	4.3	4.1	6.3	6.7
	No care	2.1	1.9	1.9	1.9	1.5	1.8	1.5	1.5	2.2	1.9	3.0
Prenatal visits	1-4	6.1	6.2	6.0	6.8	6.1	5.9	5.7	5.7	5.6	6.6	6.2
	≥5	91.5	91.7	91.9	91.1	92.0	91.8	92.3	92.4	92.0	90.5	89.9
	≥9	72.4	71.1	71.4	69.7	71.5	71.9	73.3	73.9	73.8	71.1	69.5
	≥13	28.0	27.6	27.9	28.8	26.5	28.7	31.2	31.0	31.7	28.3	26.7
Medical risks/complications^d		58.3	53.5	50.7	48.2	45.1	47.9	41.1	52.0	51.8	19.7	20.7
Gestational age^e	Preterm (<37 weeks)	10.0	10.0	10.0	9.7	9.7	9.4	8.8	9.1	8.7	8.3	8.9
Birth weight	<2,500 grams	7.4	7.7	7.5	7.5	7.6	7.4	7.3	7.3	7.3	7.0	7.8
	<1,500 grams	1.1	1.2	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.2
Child's sex	Male	51.7	51.0	50.0	51.3	50.3	51.4	51.3	51.2	51.3	51.1	51.0
	Female	48.3	49.0	50.0	48.7	49.7	48.6	48.7	48.8	48.7	48.9	49.0
Plurality	Multiple births	2.3	2.4	2.2	2.4	2.5	2.3	2.6	2.2	2.4	2.5	2.6
Caesarean delivery		23.1	25.8	25.3	26.0	25.4	25.2	25.8	25.7	25.8	25.2	25.0
Place of delivery	Hospital ^f	96.9	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	12.9	12.4	12.5	12.7	12.6	13.4	14.0	13.4	14.2	10.7	10.2
Previous live births	1 or more	64.1	64.3	64.5	64.4	64.3	64.3	63.8	63.3	64.8	66.0	65.8
Number of LBW births		1,003	1,080	1,080	1,052	1,025	917	884	850	836	835	891
Age of mother	≤19 years	17.5	16.0	17.2	16.4	15.1	13.1	15.5	13.9	9.7	11.3	10.3
	≥30 years	31.5	28.8	28.1	29.4	31.1	31.7	30.1	32.8	29.9	34.5	32.8
Marital status	Unmarried	54.0	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	5.4	4.8	3.9	4.9	2.3	2.3	3.1	3.0	2.3	2.5
Mother's race/ethnicity	White ^c	44.8	43.5	48.0	47.6	46.8	46.6	47.3	48.1	49.2	53.5	49.2
	Hispanic	24.7	29.5	25.8	24.9	26.9	24.1	21.6	24.2	24.4	22.0	24.2
	Black	1.8	1.8	1.8	2.6	1.3	1.4	2.6	2.2	1.4	2.2	1.5
	American Indian	26.2	21.9	21.4	22.7	22.2	24.1	26.2	24.0	22.8	20.7	23.2
	Asian or Pacific Islander	2.5	3.3	3.1	2.2	2.8	3.8	2.3	1.4	2.2	1.6	1.9
Prenatal care began	1st Trimester	74.1	72.0	76.0	75.7	76.7	74.3	77.3	76.5	74.0	62.5	59.5
	3rd Trimester	4.7	4.3	4.2	4.1	4.4	4.0	3.5	3.4	4.2	4.0	5.1
	No care	4.4	5.2	4.5	3.5	2.6	4.4	4.0	3.8	4.1	4.0	7.3
Prenatal visits	1-4	9.9	9.4	9.4	10.2	9.8	9.5	8.7	13.1	10.3	9.7	12.2
	≥5	85.0	84.9	85.9	85.8	86.4	85.1	86.2	82.0	84.7	84.9	77.6
	≥9	57.3	56.8	58.1	59.0	59.2	57.4	60.4	59.2	58.9	58.2	49.5
	≥13	22.1	19.3	22.0	24.9	22.6	21.3	25.2	22.9	23.3	19.2	17.8
Medical risks/complications^d		75.3	69.2	65.1	63.9	63.6	66.1	60.2	67.4	65.4	33.7	37.8
Gestational age^e	Preterm (<37 weeks)	66.1	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	14.8	15.7	15.3	14.5	14.4	15.3	13.5	14.5	15.7	15.3	10.0
	<1,000 grams	7.1	6.2	7.1	5.7	5.9	6.3	6.0	6.2	6.3	7.1	5.7
Child's sex	Male	48.5	49.8	46.1	49.1	47.0	50.2	45.9	49.2	50.0	45.0	44.6
	Female	51.5	50.2	53.9	50.8	53.0	49.8	54.1	50.8	50.0	55.0	55.4
Plurality	Multiple births	17.8	18.2	15.9	19.8	18.4	17.9	20.5	17.9	19.5	20.2	17.5
Caesarean delivery		38.6	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	98.8	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	6.1	5.3	5.6	5.1	4.6	5.3	6.3	5.2	5.7	9.2	9.7
Previous live births	1 or more	59.5	63.1	62.2	64.6	59.8	65.6	62.2	62.4	63.3	61.1	62.3

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.

^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, ARIZONA, 2005-2015
(WHITE NON-HISPANIC MOTHERS)

Characteristic	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of births	39,657	43,013	42,216	41,925	39,781	38,777	38,294	38,670	38,220	40,097	38,180
Age of mother											
≤19 Years	6.9	7.5	7.3	7.1	6.8	6.2	5.5	5.1	4.7	4.4	4.0
≥30 Years	39.3	37.9	38.5	38.7	39.3	40.4	41.5	42.9	43.2	45.1	45.6
Marital status											
Unmarried	26.1	27.7	28.4	29.5	29.7	29.9	29.5	30.4	30.3	31.1	31.5
Mother's education											
<9 years	1.3	1.2	1.2	1.1	1.2	1.1	1.2	1.0	0.8	0.7	0.8
Prenatal care began											
1st Trimester	87.7	86.9	86.5	87.3	87.9	88.2	88.0	88.4	87.4	71.7	73.2
3rd Trimester	1.8	2.0	2.1	1.9	1.9	2.1	1.8	1.8	2.0	3.5	3.7
No Care	0.8	0.9	0.9	0.7	0.7	0.6	0.6	0.6	0.7	1.1	1.3
Prenatal visits											
1-4	2.0	2.0	2.1	2.0	1.8	1.7	1.7	2.0	2.1	2.6	2.7
≥5	97.1	96.9	97.0	97.2	97.3	97.5	97.1	97.1	97.1	94.8	94.5
≥9	85.7	84.9	84.6	85.0	86.4	87.6	86.9	87.3	87.2	83.7	83.2
≥13	29.9	32.4	34.6	34.8	35.0	37.4	39.7	41.2	41.9	36.6	36.2
Medical risks/ Complications^b	48.1	45.4	47.5	47.7	48.1	49.5	46.1	50.6	55.1	16.2	17.5
Gestational Age^c											
Preterm (<37 weeks)	10.9	10.5	10.4	10.1	9.9	9.2	9.1	8.7	8.4	8.6	8.6
Birth weight											
<2,500 grams	6.9	6.7	7.1	6.9	6.9	6.7	6.7	6.5	6.4	6.8	6.6
<1,500 grams	1.1	1.1	1.1	1.1	1.1	0.9	1.1	1.0	1.0	1.1	1.0
Child's sex											
Male	51.5	51.3	50.8	51.1	51.2	51.4	51.1	51.3	51.3	51.3	51.6
Female	48.5	48.7	49.2	48.9	48.8	48.6	48.9	48.7	48.7	48.7	48.4
Plurality											
Multiple births	3.4	3.2	3.5	3.6	3.4	3.5	3.5	3.4	3.6	3.7	3.4
Caesarean delivery	27.1	27.9	28.6	29.5	29.5	29.1	29.4	28.7	28.4	28.8	28.1
Place of delivery											
Hospital ^d	97.8	97.9	97.9	97.9	97.6	97.7	97.4	97.4	97.6	97.4	97.2
Attendant at birth											
Midwife ^e	3.1	3.8	3.6	4.0	4.5	4.8	4.9	6.0	6.5	12.6	14.1
Previous live births											
1 or more	59.2	58.9	59.7	59.5	59.4	59.6	59.2	59.6	60.5	60.9	61.5

Notes: ^a Rates per 100 births.

^b Reported medical risks for this pregnancy and/or complications of labor and delivery.

^c Physician's estimate.

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

^e Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-7
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS, ARIZONA, 2005-2015
(WHITE NON-HISPANIC MOTHERS)

Characteristic	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of LBW births	2,729	2,891	2,978	2,878	2,727	2,579	2,586	2,505	2,459	2,715	2,538
Age of mother											
≤19 years	8.6	8.6	8.8	7.6	8.7	7.1	6.8	6.5	5.2	4.8	5.5
≥30 years	40.5	41.8	40.9	41.8	43.2	43.6	44.8	45.5	42.5	47.5	47.8
Marital status											
Unmarried	32.7	33.0	34.6	34.1	33.5	34.7	36.2	37.2	36.9	37.9	39.9
Mother's education											
<9 years	1.8	1.8	1.6	1.4	1.1	1.1	1.5	1.4	1.6	1.1	0.9
Prenatal care began											
1st Trimester	86.9	85.6	86.2	86.5	86.8	86.1	86.4	84.2	83.9	69.4	71.1
3rd Trimester	1.6	1.7	1.8	1.7	1.9	2.1	1.4	2.0	2.2	3.2	3.0
No Care	2.1	3.0	2.4	2.1	1.9	2.2	1.7	2.2	1.6	3.4	3.9
Prenatal visits											
1-4	5.8	5.2	5.5	4.7	5.3	4.5	4.5	6.1	5.6	6.0	7.8
≥5	92.0	91.6	92.0	92.9	92.4	92.9	92.5	91.1	92.4	88.7	85.3
≥9	69.7	68.6	70.1	69.8	70.6	74.4	71.5	71.4	70.6	67.4	64.3
≥13	28.1	27.1	31.0	29.9	30.5	34.3	34.6	31.7	33.0	28.4	24.0
Medical risks/ Complications^b											
70.9	66.5	68.6	71.5	71.5	73.2	72.2	74.2	74.2	75.2	32.3	34.5
Gestational age^c											
Preterm (<37 weeks)	74.3	74.6	74.0	72.9	71.7	69.5	70.9	71.4	70.7	68.7	70.0
Birth weight											
<1,500 grams	15.8	16.1	15.0	15.7	15.5	13.3	16.7	16.1	15.3	16.4	8.8
<1,000 grams	8.4	7.1	6.2	6.8	6.9	5.7	7.6	7.6	6.9	7.3	6.3
Child's sex											
Male	46.2	47.4	46.9	47.0	46.3	45.4	47.1	46.7	49.3	47.0	46.7
Female	53.8	52.6	53.1	53.0	53.7	54.6	52.9	53.3	50.7	53.0	53.3
Plurality											
Multiple births	28.8	28.7	29.6	30.1	26.7	29.2	29.1	28.8	29.7	30.3	27.2
Caesarean delivery											
47.9	48.4	49.6	53.2	50.5	51.1	50.9	52.5	49.5	52.2	52.2	
Place of delivery											
Hospital ^d	99.6	99.5	99.5	99.4	99.7	99.5	99.2	99.4	99.6	99.5	99.3
Attendant at birth											
Midwife ^e	0.9	0.9	1.2	1.3	1.1	1.1	1.0	1.3	1.7	11.4	11.9
Previous live births											
1 or more	54.3	56.9	57.5	58.3	56.7	58.2	56.2	57.9	56.8	58.8	56.5

Notes: ^a Rates per 100 births.

^b Reported medical risks for this pregnancy and/or complications of labor and delivery.

^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, ARIZONA, 2005-2015
(HISPANIC OR LATINO MOTHERS)**

Characteristic	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of births	42,156	44,862	45,731	42,639	38,362	34,333	32,398	33,146	33,075	33,715	34,264
Age of mother											
≤19 years	17.1	17.2	17.0	16.8	16.5	15.6	14.3	14.0	12.3	11.3	9.9
≥30 years	25.6	25.5	26.5	27.5	28.4	29.4	29.8	30.2	30.6	31.9	32.3
Marital status											
Unmarried	54.3	55.4	56.7	56.5	56.9	56.2	56.6	57.2	57.1	56.1	56.2
Mother's education											
<9 years	17.5	16.4	15.4	13.9	12.3	10.7	9.3	8.7	7.6	7.5	6.7
Prenatal care began											
1st Trimester	69.5	70.1	70.5	73.4	74.1	76.6	76.5	78.2	76.2	60.5	63.6
3rd Trimester	5.2	5.1	4.9	4.5	4.4	4.1	4.1	4.3	5.0	6.9	6.9
No Care	3.6	3.6	3.2	2.5	2.9	2.6	2.5	1.9	2.1	3.2	3.0
Prenatal visits											
1-4	5.5	5.2	4.9	4.4	4.5	4.2	4.4	4.5	4.8	5.4	5.3
≥5	90.8	91.0	91.8	93.0	92.4	93.0	92.7	93.3	93.0	90.2	90.9
≥9	70.0	70.3	71.2	73.3	73.4	75.0	76.3	77.0	77.0	73.5	73.0
≥13	22.9	23.9	25.7	26.7	26.3	27.2	28.8	29.1	29.0	26.2	26.1
Medical risks/ Complications^b	40.5	41.5	41.4	43.7	46.4	48.0	44.2	52.6	54.6	17.8	20.9
Gestational age^c											
Preterm (<37 weeks)	10.1	10.1	9.8	9.9	9.7	9.5	9.1	9.4	9.3	9.2	9.0
Birth weight											
<2,500 grams	6.4	6.9	6.6	6.7	6.6	6.8	6.4	6.8	6.6	6.7	6.9
<1,500 grams	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Child's sex											
Male	51.1	51.2	51.4	51.0	51.1	50.5	51.4	51.2	51.3	51.3	50.9
Female	48.9	48.8	48.6	49.0	48.9	49.5	48.6	48.8	48.7	48.7	49.1
Plurality											
Multiple births	2.3	2.4	2.2	2.2	2.2	2.3	2.1	2.1	2.4	2.2	2.4
Caesarean delivery	23.5	24.0	24.6	25.7	25.8	25.9	26.1	26.0	26.7	26.1	26.3
Place of delivery											
Hospital ^d	99.7	99.8	99.7	99.8	99.7	99.7	99.6	99.6	99.6	99.5	99.5
Attendant at birth											
Midwife ^e	5.2	4.6	4.9	5.6	6.0	5.7	5.3	6.1	5.9	7.4	9.8
Previous live births											
1 or more	66.7	66.0	66.4	67.4	67.2	66.9	66.6	66.2	67.0	67.4	67.1

Notes: ^a Rates per 100 births.

^b Reported medical risks for this pregnancy and/or complications of labor and delivery.

^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, ARIZONA, 2005-2015
(HISPANIC OR LATINO MOTHERS)**

Characteristic	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of LBW births	2,710	3,074	3,021	2,866	2,546	2,342	2,075	2,256	2,199	2,247	2,364
Age of mother											
≤19 years	19.6	20.5	19.4	18.7	18.1	17.1	16.6	15.0	12.9	11.7	10.9
≥30 years	26.6	27.0	28.5	29.0	31.7	32.6	29.3	32.3	31.7	33.0	35.4
Marital status											
Unmarried	59.2	58.6	60.2	58.6	58.7	60.6	61.7	61.9	61.5	58.1	58.5
Mother's education											
<9 years	16.8	15.0	15.7	12.2	12.2	9.5	9.3	8.5	7.2	7.4	6.4
Prenatal care began											
1st Trimester	69.5	71.1	69.7	74.8	75.9	76.7	77.2	76.5	74.8	59.3	60.3
3rd Trimester	3.4	3.6	4.0	3.2	2.7	3.2	2.7	3.2	3.8	4.9	4.4
No Care	6.7	6.4	6.0	4.7	5.2	3.9	4.3	3.7	4.2	5.8	5.6
Prenatal visits											
1-4	12.5	11.0	10.7	9.6	9.5	9.2	9.7	10.6	9.5	10.5	9.5
≥5	80.6	82.3	83.1	85.5	85.0	86.2	85.4	85.4	85.9	82.2	83.4
≥9	52.7	53.5	54.4	58.5	58.2	58.7	59.9	59.9	63.7	55.2	54.0
≥13	16.9	18.6	20.7	22.5	21.3	21.4	23.6	21.9	24.1	16.3	15.7
Medical risks											
Complications^b	63.5	62.4	62.2	67.1	69.0	72.8	66.4	73.8	70.3	32.7	38.0
Gestational age^c											
Preterm (<37 weeks)	74.3	71.5	71.6	72.0	71.1	70.9	71.4	72.0	71.5	72.0	69.4
Birth weight											
<1,500 grams	18.0	18.2	18.2	16.3	17.1	15.6	16.6	16.8	16.7	16.6	16.2
<1,000 grams	9.4	8.6	9.8	7.4	8.4	7.3	8.9	8.2	8.0	8.9	7.7
Child's sex											
Male	47.1	47.2	49.3	48.9	48.5	47.8	46.7	51.1	49.9	49.3	48.3
Female	52.9	52.8	50.7	51.1	51.5	52.2	53.3	48.9	50.1	50.7	51.7
Plurality											
Multiple births	18.9	19.1	19.5	18.3	18.6	18.8	18.1	18.5	21.3	18.0	18.4
Caesarean delivery	38.3	39.8	40.1	41.4	42.6	42.5	44.4	43.3	46.5	42.9	45.3
Place of delivery											
Hospital ^d	99.6	99.9	99.7	99.9	99.9	99.9	99.6	99.8	99.8	99.9	99.7
Attendant at birth											
Midwife ^e	2.5	1.5	2.4	2.9	2.6	3.0	2.4	3.0	2.5	7.0	9.1
Previous live births											
1 or more	60.8	61.2	63.8	62.2	63.0	63.0	62.8	63.9	63.4	63.7	64.0

Notes: ^a Rates per 100 births.

^b Reported medical risks for this pregnancy and/or complications of labor and delivery.

^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, ARIZONA, 2005-2015
(BLACK OR AFRICAN AMERICAN MOTHERS)

Characteristic	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of births	3,450	3,864	4,165	4,301	4,378	4,328	4,366	4,715	4,726	4,522	4,361
Age of mother											
≤19 years	16.5	15.6	14.9	15.3	13.8	13.0	12.8	11.5	10.7	8.7	7.2
≥30 years	25.3	26.2	27.0	26.7	28.2	28.3	30.3	30.2	30.6	34.1	36.0
Marital status											
Unmarried	61.9	62.3	61.9	62.6	62.7	63.1	63.6	64.8	63.7	62.5	63.2
Mother's education											
<9 years	4.8	4.6	4.4	5.0	4.4	5.2	4.3	4.3	3.7	3.3	4.1
Prenatal care began											
1st Trimester	76.6	77.4	76.8	77.6	80.3	81.6	80.4	79.9	78.2	61.4	62.2
3rd Trimester	3.4	2.8	3.7	3.7	2.9	3.3	3.0	3.4	4.5	7.7	6.9
No Care	2.6	2.3	2.7	2.1	1.6	1.7	1.6	1.1	1.3	2.8	2.5
Prenatal visits											
1-4	4.5	4.1	4.4	3.7	3.6	4.1	4.0	4.5	4.7	6.2	6.4
≥5	92.7	93.3	92.8	93.9	94.5	94.0	93.4	94.1	93.8	89.7	89.9
≥9	74.4	74.6	75.0	75.4	78.6	78.4	79.1	78.5	79.1	72.1	71.5
≥13	24.6	26.9	28.2	28.5	29.5	30.4	33.6	32.7	31.0	24.7	25.4
Medical risks											
Complications^b	44.4	44.4	46.4	50.3	53.4	56.0	52.0	56.6	57.2	20.0	23.3
Gestational age^c											
Preterm (<37 weeks)	16.4	14.5	14.9	14.0	14.4	12.3	12.7	11.9	11.8	12.1	12.2
Birth weight											
<2,500 grams	12.6	12.7	12.8	11.7	12.8	11.4	12.5	11.7	11.1	11.9	12.3
<1,500 grams	2.5	2.3	2.6	2.6	2.8	2.6	2.5	2.3	2.0	2.5	2.3
Child's sex											
Male	50.5	50.8	51.8	52.4	52.0	50.8	50.5	50.5	51.8	51.9	51.5
Female	49.5	49.2	48.2	47.6	48.0	49.2	49.5	49.5	48.2	48.1	48.5
Plurality											
Multiple births	3.1	3.8	3.6	4.1	4.2	3.3	3.6	4.1	3.7	4.7	3.9
Caesarean delivery	27.4	29.1	30.3	30.5	30.9	30.7	31.1	31.9	31.4	33.0	32.8
Place of delivery											
Hospital ^d	99.5	99.3	99.6	99.4	99.6	99.5	99.3	99.6	99.3	99.5	99.6
Attendant at birth											
Midwife ^e	3.0	2.6	2.4	3.4	3.2	3.4	2.7	3.5	3.9	8.8	11.7
Previous live births											
1 or more	62.3	61.4	63.2	62.7	62.8	62.8	63.0	63.8	64.6	66.9	66.2

Notes: ^a Rates per 100 births.

^b Reported medical risks for this pregnancy and/or complications of labor and delivery.

^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, ARIZONA, 2005-2015
(BLACK OR AFRICAN AMERICAN MOTHERS)**

Characteristic	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of LBW births	435	489	532	503	559	492	546	551	523	536	535
Age of mother											
≤19 years	16.8	17.0	15.8	16.7	13.8	17.5	13.7	10.2	12.8	9.0	6.9
≥30 years	26.7	29.2	28.2	31.8	30.6	27.6	33.5	32.3	33.8	35.8	38.7
Marital status											
Unmarried	65.7	66.1	66.4	65.2	69.8	72.2	67.9	69.0	72.8	67.0	64.9
Mother's education											
<9 years	6.2	4.3	5.5	4.4	3.2	4.3	2.9	2.9	3.1	2.4	3.0
Prenatal care began											
1st Trimester	75.6	75.9	77.4	77.7	79.4	82.5	80.0	78.8	77.8	59.1	63.9
3rd Trimester	2.3	1.6	3.4	3.4	2.5	1.6	3.1	3.4	3.3	4.7	4.5
No Care	4.4	3.5	3.6	4.4	4.1	2.4	2.4	2.4	3.4	6.2	5.0
Prenatal visits											
1-4	9.0	9.4	9.0	6.8	7.3	9.3	9.5	10.3	8.6	11.2	12.9
≥5	85.5	86.7	87.4	88.5	88.0	87.8	86.3	86.0	87.2	81.2	80.4
≥9	57.7	60.9	60.0	62.0	64.0	60.4	64.1	64.4	66.7	55.2	55.7
≥13	23.4	21.3	22.9	21.3	23.8	26.6	29.3	27.6	25.2	20.1	22.2
Medical risks											
Complications^b	64.1	63.0	67.7	68.4	72.8	74.0	68.7	68.4	70.0	34.9	36.6
Gestational age^c											
Preterm (<37 weeks)	74.3	70.6	70.1	71.6	72.1	68.9	65.6	65.7	66.9	68.3	65.0
Birth weight											
<1,500 grams	20.0	18.2	20.3	22.1	22.2	23.0	20.0	20.0	18.0	21.5	18.5
<1,000 grams	11.0	9.8	10.2	13.1	10.9	12.6	10.8	10.3	10.3	12.9	10.5
Child's sex											
Male	47.1	45.2	47.9	49.7	49.7	42.3	46.0	45.7	47.2	45.9	46.9
Female	52.9	54.6	52.1	50.3	50.3	57.7	54.0	54.3	52.8	54.1	53.1
Plurality											
Multiple births	14.5	18.2	18.6	19.1	22.0	19.7	17.8	21.2	21.4	22.2	22.8
Caesarean delivery	39.3	37.4	43.0	44.9	45.6	43.9	43.4	45.6	42.8	45.9	47.9
Place of delivery											
Hospital ^d	100.0	99.6	100.0	99.8	99.6	99.4	99.8	100.0	99.0	99.8	100.0
Attendant at birth											
Midwife ^e	1.1	1.0	1.1	2.0	1.3	2.0	2.6	0.9	1.9	8.6	10.3
Previous live births											
1 or more	59.8	62.8	64.5	62.8	61.4	59.3	62.5	65.2	61.8	66.6	64.9

Notes: ^a Rates per 100 births.

^b Reported medical risks for this pregnancy and/or complications of labor and delivery.

^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, ARIZONA, 2005-2015
(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)

Characteristic	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of births	6,293	6,364	6,408	6,362	6,170	5,815	5,830	5,569	5,476	5,145	4,984
Age of mother											
≤19 years	19.1	19.1	20.1	18.6	19.0	17.0	16.9	16.0	14.2	11.7	11.4
≥30 years	25.4	23.6	24.0	24.0	23.8	24.1	25.0	25.2	26.6	26.7	28.9
Marital status											
Unmarried	72.9	74.8	75.9	75.8	76.9	77.7	77.1	78.5	79.2	78.9	79.6
Mother's education											
<9 years	3.5	3.5	3.0	3.2	2.8	2.8	2.5	2.5	2.4	2.2	2.1
Prenatal care began											
1st Trimester	67.9	65.9	65.9	65.1	66.0	69.4	68.6	68.2	68.7	58.4	58.5
3rd Trimester	6.6	7.0	6.6	7.8	7.4	6.2	6.1	7.0	6.1	7.5	8.4
No Care	3.0	3.5	3.2	3.1	2.1	2.3	2.5	2.0	2.4	2.9	4.3
Prenatal visits											
1-4	9.6	9.7	8.8	9.3	8.6	8.8	9.0	9.1	9.5	10.5	10.4
≥5	87.3	86.5	87.7	87.4	88.9	88.5	87.8	88.4	87.7	85.0	84.2
≥9	63.3	60.5	61.2	59.9	61.5	64.0	62.8	64.0	63.7	59.3	60.0
≥13	19.5	18.3	19.4	18.7	17.9	18.8	19.7	20.7	21.3	18.2	18.7
Medical risks/ Complications^b	55.1	56.5	57.2	54.8	54.3	55.3	53.8	60.4	61.7	31.2	35.4
Gestational age^c											
Preterm (<37 weeks)	10.6	11.7	10.4	9.8	9.6	10.6	9.0	9.7	9.7	8.2	9.6
Birth weight											
<2,500 grams	7.3	7.4	6.6	6.7	6.4	7.0	6.9	6.7	7.2	6.1	7.3
<1,500 grams	1.1	1.1	1.0	1.1	0.9	1.2	1.3	1.1	1.0	0.9	1.3
Child's sex											
Male	50.9	50.0	50.2	50.1	50.4	50.4	50.7	50.5	51.6	49.7	50.8
Female	49.1	50.0	49.8	49.9	49.6	49.6	49.3	49.5	48.4	50.3	49.2
Plurality											
Multiple births	1.9	1.8	1.4	1.5	1.6	1.8	1.5	1.6	1.8	1.3	1.8
Caesarean delivery	20.6	22.4	22.9	23.1	23.2	22.9	23.1	23.8	24.0	22.7	22.6
Place of delivery											
Hospital ^d	99.5	99.6	99.7	99.7	99.7	99.6	99.6	99.7	99.7	99.7	99.4
Attendant at birth											
Midwife ^e	31.6	28.8	29.3	28.0	27.6	28.6	27.9	27.8	27.6	10.6	9.1
Previous live births											
1 or more	67.5	68.1	66.5	66.9	66.6	67.3	66.5	67.6	68.5	70.0	71.0

Notes: ^a Rates per 100 births.

^b Reported medical risks for this pregnancy and/or complications of labor and delivery.

^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, ARIZONA, 2005-2015
(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)

Characteristic	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of LBW births	460	473	426	428	396	406	403	372	393	315	365
Age of mother											
≤19 years	19.6	19.2	22.8	16.8	18.2	15.3	18.9	18.0	10.2	10.8	10.1
≤30 years	29.8	28.5	28.4	26.6	28.8	29.6	26.8	33.1	29.5	30.8	34.5
Marital status											
Unmarried	73.3	76.5	75.8	80.1	79.3	75.4	81.1	80.9	82.2	78.4	81.9
Mother's education											
<9 years	3.9	4.2	2.1	4.4	2.5	3.0	2.0	3.2	5.1	2.9	3.6
Prenatal care began											
1st Trimester	67.0	63.0	67.4	66.8	65.2	69.7	70.0	69.1	66.9	46.7	48.5
3rd Trimester	4.8	7.0	5.4	6.8	5.8	4.2	4.0	4.3	8.4	5.1	6.6
No Care	8.5	9.5	8.5	7.5	4.3	6.7	6.7	5.9	4.3	8.6	13.7
Prenatal visits											
1-4	13.0	15.0	11.5	16.4	12.1	13.5	11.4	15.1	17.6	15.6	15.3
≥5	77.4	74.8	79.6	75.7	81.8	78.8	79.7	78.2	76.8	72.7	66.6
≥9	50.2	44.4	46.2	44.6	52.0	47.8	47.4	51.6	50.6	40.6	40.5
≥13	15.4	11.4	15.7	16.6	16.9	15.5	13.9	16.4	15.3	10.2	11.2
Medical risks/ Complications^b	72.8	74.8	69.7	66.1	69.4	74.4	65.5	70.2	71.2	43.5	51.5
Gestational age^c											
Preterm (<37 weeks)	70.2	74.2	71.8	71.7	69.7	74.9	69.0	79.0	70.7	65.1	69.9
Birth weight											
<1,500 grams	15.2	15.4	15.3	16.8	14.4	16.7	18.4	16.7	13.7	14.6	18.1
<1,000 grams	6.5	5.5	7.5	7.9	8.1	7.4	9.2	8.9	4.6	7.9	8.5
Child's sex											
Male	51.3	52.0	46.0	45.6	48.2	54.9	46.4	49.2	51.4	44.4	45.8
Female	48.7	48.0	54.0	54.4	51.8	45.1	53.6	50.8	48.6	55.6	54.2
Plurality											
Multiple births	11.7	13.5	11.3	13.3	13.1	15.5	11.7	15.6	12.7	9.8	13.4
Caesarean delivery	36.5	39.3	40.1	39.3	39.4	44.6	34.5	47.3	44.3	41.9	43.8
Place of delivery											
Hospital ^d	98.9	99.8	99.8	99.8	99.5	99.8	99.5	99.7	100.0	100.0	98.6
Attendant at birth											
Midwife ^e	13.3	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	66.5	68.1	59.9	66.4	64.1	67.2	64.3	69.6	68.7	69.8	70.4

Notes: ^a Rates per 100 births.

^b Reported medical risks for this pregnancy and/or complications of labor and delivery.

^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, ARIZONA, 2005-2015
(ASIAN OR PACIFIC ISLANDER MOTHERS)

Characteristic	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of births	2,805	3,136	3,412	3,425	3,396	3,293	3,505	3,625	3,466	3,169	3,235
Age of mother											
≤19 years	3.4	2.9	3.0	3.3	2.6	3.1	3.2	2.2	2.3	1.8	1.9
≥30 years	52.7	53.7	53.9	55.9	55.6	55.9	57.4	57.3	59.2	60.4	60.5
Marital status											
Unmarried	17.0	16.2	17.6	17.4	15.8	17.4	17.3	17.3	16.0	15.2	14.3
Mother's education											
<9 years	1.8	2.4	1.6	2.3	2.2	3.3	3.1	3.1	2.7	3.0	3.1
Prenatal care began											
1st Trimester	86.3	86.1	86.5	86.4	88.1	88.1	86.5	87.1	86.4	70.5	71.8
3rd Trimester	1.9	2.1	2.1	3.1	1.9	2.3	2.3	2.0	2.9	4.5	5.0
No Care	1.0	1.2	1.5	1.3	1.3	1.2	1.0	0.7	0.7	1.4	1.2
Prenatal visits											
1-4	2.5	2.0	1.8	2.4	2.1	1.9	2.3	2.4	2.6	2.6	3.6
≥5	96.4	96.5	96.6	96.2	96.4	96.7	96.2	96.8	96.6	94.5	93.9
≥9	84.1	82.7	83.9	83.2	85.6	86.7	84.2	86.2	85.6	82.3	80.6
≥13	25.8	30.3	35.3	33.5	35.6	36.0	37.9	37.2	39.2	33.7	31.6
Medical risks/ Complications^b	45.0	43.5	45.4	46.4	48.1	51.5	47.4	52.9	57.4	19.7	21.9
Gestational age^c											
Preterm (<37 weeks)	10.2	10.4	9.6	10.0	10.0	9.9	9.0	8.4	8.9	8.0	9.4
Birth weight											
<2,500 grams	8.0	8.5	8.0	9.1	8.8	8.5	8.3	7.2	7.9	8.1	9.0
<1,500 grams	1.2	1.1	1.0	1.5	1.5	1.4	1.1	0.8	1.1	1.2	1.2
Child's sex											
Male	50.7	52.2	53.2	51.3	51.7	50.7	52.4	52.1	51.4	51.5	51.5
Female	49.3	47.8	46.8	48.7	48.3	49.3	47.6	47.9	48.6	48.5	48.5
Plurality											
Multiple births	2.0	2.7	2.3	3.6	2.9	2.5	3.3	2.5	3.2	3.2	3.3
Caesarean delivery	28.1	30.5	30.0	32.0	32.6	32.8	33.0	32.1	33.2	32.4	34.0
Place of delivery											
Hospital ^d	99.5	99.4	99.5	99.4	99.4	99.6	99.3	99.2	99.1	99.3	99.4
Attendant at birth											
Midwife ^e	2.3	2.1	1.7	2.7	3.0	2.8	3.1	4.0	3.3	10.0	10.4
Previous live births											
1 or more	54.4	53.3	54.5	52.9	54.8	55.5	54.6	55.5	56.2	53.4	54.0

Notes: ^a Rates per 100 births.

^b Reported medical risks for this pregnancy and/or complications of labor and delivery.

^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, ARIZONA, 2005-2015
(ASIAN OR PACIFIC ISLANDER MOTHERS)**

Characteristic	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of LBW births	223	268	272	311	299	280	292	262	275	256	291
Age of mother											
≤19 years	3.6	1.1	2.2	3.5	3.3	5.4	5.1	5.0	1.5	1.2	1.7
≤30 years	50.2	53.7	55.5	59.5	54.8	52.1	58.6	64.9	66.2	64.1	61.5
Marital status											
Unmarried	22.4	18.7	16.9	21.5	20.4	18.9	18.2	18.3	12.4	14.1	15.1
Mother's education											
<9 years	1.3	3.0	1.1	2.6	1.7	3.2	4.1	3.8	3.6	4.3	2.7
Prenatal care began											
1st Trimester	83.9	87.7	83.8	82.6	87.0	84.3	83.9	87.8	86.9	70.3	72.9
3rd Trimester	3.6	1.5	1.5	3.5	3.0	2.9	2.1	0.4	3.6	4.7	3.8
No Care	2.7	3.0	3.7	4.2	2.0	1.4	2.7	0.8	0.7	3.5	2.7
Prenatal visits											
1-4	7.2	3.7	4.0	7.7	7.4	6.8	4.8	2.3	6.2	4.7	8.6
≥5	89.7	92.9	92.3	88.1	90.0	91.4	92.5	96.9	93.1	88.7	86.9
≥9	67.3	68.7	67.6	69.8	72.6	70.7	72.9	78.6	73.5	66.8	64.6
≥13	22.4	22.8	29.4	34.1	34.4	27.1	30.8	32.8	31.6	25.4	29.6
Medical risks/ Complications^b	67.7	67.9	66.5	61.1	70.2	74.3	68.8	72.5	73.8	32.4	32.3
Gestational age^c											
Preterm (<37 weeks)	65.9	67.2	68.0	60.5	66.2	65.4	64.7	63.0	61.1	60.2	60.1
Birth weight											
<1,500 grams	15.7	13.4	12.9	16.1	17.4	16.4	12.7	11.5	13.5	15.2	13.1
<1,000 grams	5.8	5.2	4.8	9.3	8.7	7.9	6.2	5.3	6.2	6.6	6.5
Child's sex											
Male	47.1	49.3	47.4	51.8	50.2	45.0	46.9	52.7	46.5	49.2	48.8
Female	52.9	50.7	52.6	48.2	49.8	55.0	53.1	47.3	53.5	50.8	51.2
Plurality											
Multiple births	19.7	19.0	21.7	26.7	22.4	18.9	25.7	20.2	23.6	24.2	25.1
Caesarean delivery	46.6	44.4	40.4	49.8	51.5	45.4	51.4	44.3	53.1	47.7	51.5
Place of delivery											
Hospital ^d	100.0	100.0	100.0	99.7	100.0	100.0	99.7	100.0	100.0	100.0	100.0
Attendant at birth											
Midwife ^e	0.4	1.9	1.1	2.6	1.7	1.1	0.3	2.7	2.2	12.1	12.0
Previous live births											
1 or more	55.6	50.0	47.1	51.8	48.8	49.6	55.5	53.1	56.4	46.9	54.6

Notes: ^a Rates per 100 births.

^b Reported medical risks for this pregnancy and/or complications of labor and delivery.

^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, 2005-2015**

Weight in grams	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Under 1000, total	579	559	589	538	523	439	496	480	433	509	448
Single	452	413	450	419	431	346	379	383	332	384	358
Plural	127	146	139	119	92	93	117	97	101	125	90
1,000-1,499, total	540	670	634	618	577	505	505	506	494	509	523
Single	404	469	452	431	420	386	374	387	341	379	386
Plural	136	201	182	187	157	119	131	119	153	130	137
1,500-1,999, total	1,254	1,425	1,362	1,360	1,211	1,194	1,131	1,197	1,152	1,156	1,133
Single	909	979	935	944	835	823	794	814	830	803	793
Plural	345	446	427	416	376	371	337	383	322	353	340
2,000-2,499, total	4,267	4,612	4,700	4,510	4,262	4,017	3,817	3,763	3,770	3,895	3,988
Single	3,397	3,771	3,762	3,598	3,432	3,178	3,043	2,994	2,920	3,063	3,186
Plural	870	841	938	912	830	839	774	769	850	832	802
2,500-3,999, total	81,676	86,943	87,739	84,904	79,423	74,680	72,777	73,096	72,494	73,627	72,240
Single	80,530	85,755	86,631	83,674	78,297	73,596	71,741	72,085	71,377	72,449	71,109
Plural	1,146	1,188	1,108	1,230	1,126	1,084	1,036	1,011	1,117	1,178	1,131
4,000 and over, total	7,460†	7,820†	7,640†	7,270†	6,601	6,200†	6,450†	6,680†	6,540†	6,900†	6,630†
Single	7,462	7,817	7,634	7,267	6,601	6,194	6,450	6,674	6,537	6,900	6,633
Plural	*	*	*	*	0	*	*	*	*	*	*
All weights, total^a	95,798	102,042	102,687	99,215	92,616	87,053	85,190	85,725	84,963	86,648	85,024
Single	93,173	99,216	99,889	96,347	90,034	84,535	82,793	83,342	82,415	84,014	82,501
Plural	2,630†	2,830†	2,800†	2,870†	2,582	2,510†	2,400†	2,380†	2,550†	2,630†	2,518

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, 2005-2015**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2005	7,700	7,146	7,946	7,515	7,583	7,802	8,286	8,746	8,712	8,058	7,926	8,378	95,798
Percent	8.0	7.5	8.3	7.8	7.9	8.1	8.6	9.1	9.1	8.4	8.3	8.7	100.0
2006	8,089	7,614	8,371	7,724	8,088	8,311	8,897	9,265	9,166	9,140	8,618	8,759	102,042
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	100.0
2007	8,659	7,721	8,324	7,885	8,207	8,341	9,011	9,396	9,077	9,101	8,388	8,577	102,687
Percent	8.4	7.5	8.1	7.7	8.0	8.1	8.8	9.2	8.8	8.9	8.2	8.4	100.0
2008	8,656	8,158	8,094	7,694	8,124	7,677	8,783	8,779	8,760	8,411	7,740	8,339	99,215
Percent	8.7	8.2	8.2	7.8	8.2	7.7	8.9	8.8	8.8	8.5	7.8	8.4	100.0
2009	7,784	7,333	8,069	7,371	7,464	7,377	8,060	8,194	8,097	7,872	7,267	7,728	92,616
Percent	8.4	7.9	8.7	8.0	8.1	8.0	8.7	8.8	8.7	8.5	7.8	8.3	100.0
2010	7,342	6,812	7,521	6,886	6,989	6,982	7,153	7,637	7,977	7,331	7,038	7,378	87,053 ^a
Percent	8.4	7.8	8.6	7.9	8.0	8.0	8.2	8.8	9.2	8.4	8.1	8.5	100.0
2011	7,127	6,500	7,254	6,498	6,678	7,086	7,222	7,688	7,750	7,361	6,987	7,039	85,190
Percent	8.4	7.6	8.5	7.6	7.8	8.3	8.5	9.0	9.1	8.6	8.2	8.3	100.0
2012	7,006	6,732	7,100	6,603	6,777	6,725	7,368	7,772	7,689	7,629	7,101	7,223	85,725
Percent	8.2	7.9	8.3	7.7	7.9	7.8	8.6	9.1	9.0	8.9	8.3	8.4	100.0
2013	7,090	6,414	7,083	6,694	6,681	6,685	7,337	7,436	7,538	7,515	7,130	7,360	84,963
Percent	8.3	7.5	8.3	7.9	7.9	7.9	8.6	8.8	8.9	8.8	8.4	8.7	100.0
2014	7,313	6,593	7,068	6,672	6,893	6,856	7,731	7,718	7,651	7,554	6,994	7,605	86,648
Percent	8.4	7.6	8.2	7.7	8.0	7.9	8.9	8.9	8.8	8.7	8.1	8.8	100.0
2015	7,169	6,660	7,175	6,613	6,814	6,770	7,030	7,372	7,685	7,487	6,940	7,309	85,024
Percent	8.4	7.8	8.4	7.8	8.0	8.0	8.3	8.7	9.0	8.8	8.2	8.6	100.0

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

**TABLE 1B-18
BIRTHS BY DAY AND MONTH OF OCCURRENCE, ARIZONA RESIDENTS, 2015**

TOTAL	Month of birth											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL	85,024	7,169	6,660	7,175	6,613	6,814	7,030	7,372	7,685	7,487	6,940	7,309
1	2,651	193	154	176	241	245	244	207	271	276	186	233
2	2,841	225	233	249	248	186	244	199	291	248	238	259
3	2,868	206	269	252	230	196	222	226	270	242	259	250
4	2,731	176	244	259	185	250	186	259	276	174	239	246
5	2,797	247	247	255	176	235	145	244	237	273	289	197
6	2,781	227	246	248	255	235	206	262	190	270	262	198
7	2,755	279	192	203	250	228	233	257	214	264	184	251
8	2,713	252	191	160	240	228	223	199	244	287	178	254
9	2,889	250	261	236	237	151	256	184	303	288	267	239
10	2,810	196	267	236	246	148	227	238	294	213	242	265
11	2,769	184	270	237	197	224	191	251	271	191	257	259
12	2,832	271	251	237	192	272	177	260	217	247	274	177
13	2,699	236	245	215	233	249	242	252	199	238	216	184
14	2,813	240	204	211	248	248	259	255	268	258	200	238
15	2,806	259	190	180	243	261	239	219	268	268	169	253
16	2,993	284	247	264	230	194	242	189	258	272	280	272
17	2,787	187	264	246	226	157	249	230	293	182	241	261
18	2,809	186	285	265	160	232	184	253	277	174	272	259
19	2,840	253	250	253	152	245	179	266	254	245	290	221
20	2,968	241	281	240	259	245	256	259	201	283	311	198
21	2,840	271	219	226	239	237	232	301	251	253	207	250
22	2,748	252	205	159	224	251	233	206	265	266	178	284
23	2,821	275	215	254	227	171	235	194	262	252	252	237
24	2,881	182	244	285	237	169	276	262	283	211	274	207
25	2,645	168	260	261	201	164	190	267	268	186	235	185
26	2,636	251	234	252	151	244	192	268	234	226	163	193
27	2,813	252	261	243	213	252	246	266	224	268	190	200
28	2,779	235	231	193	227	271	255	277	261	254	154	268
29	2,546	255		192	230	242	272	218	262	252	171	247
30	2,659	273		241	216	200	258	163	279	242	262	276
31	1,504	163		247	184	184	237	241		184		248

**TABLE 1B-19
LIVE BIRTHS BY MOTHER'S AGE AND FATHER'S AGE, ARIZONA, 2015**

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+	Un-known		
<15	*	*	0	0	0	0	0	0	0	0	0	10†
15-17	7	323	137	20	*	*	0	0	0	0	0	490†
18-19	*	419	933	510	27	9	*	*	0	0	0	1,900†
20-24	*	219	1,724	8,359	1,476	225	63	15	0	0	0	12,080†
25-29	0	22	282	5,783	10,831	2,152	384	53	*	0	0	19,510†
30-34	*	6	61	1,533	7,350	9,649	1,698	176	6	*	0	20,480†
35-39	0	*	18	474	1,938	5,274	4,217	440	17	0	0	12,380†
40-44	0	*	7	138	580	1,472	2,127	804	40	*	0	5,170†
45-49	0	0	*	58	184	423	571	368	37	0	0	1,640†
50-54	0	0	*	15	65	122	195	113	28	*	0	540†
55+	0	0	0	7	27	59	74	43	16	*	0	227
Unknown	27	586	1,093	3,628	2,709	1,539	781	189	33	0	0	10,585
TOTAL	40†	1,580†	4,260†	20,525	25,190†	20,930†	10,110†	2,200†	180†	10†	0	85,024

**TABLE 1B-20
LIVE BIRTHS BY MOTHER'S RACE/ETHNICITY AND FATHER'S RACE/ETHNICITY, ARIZONA, 2015**

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	31,473	9,883	1,636	1,414	836	45,242
Hispanic or Latino	4,855	22,945	253	608	212	28,873
Black or African American	1,130	885	2,439	75	66	4,595
American Indian or Alaska Native	279	330	16	2,867	14	3,506
Asian or Pacific Islander	443	221	17	20	2,107	2,808
TOTAL	38,180	34,264	4,361	4,984	3,235	85,024

**TABLE 1B-21
LIVE BIRTHS BY MOTHER'S AND FATHER'S EDUCATION, ARIZONA, 2015**

Father's education	Mother's education								TOTAL
	8th Grade or Less	Some High School	High School/ GED	Some College	Associate Degree	Bachelor's Degree	Post graduate Education	Un-known	
8th Grade or Less	1,088	809	708	228	99	50	22	9	3,013
Some High School	596	4,332	3,164	1,569	388	202	78	15	10,344
High School/ GED	448	3,088	9,037	4,746	1,418	1,434	392	40	20,603
Some College	103	920	2,937	7,359	1,746	2,466	806	30	16,367
Associate Degree	72	212	938	1,531	1,217	1,241	450	12	5,673
Bachelor's Degree	26	151	824	1,768	1,095	5,366	2,244	16	11,490
Postgraduate Education	13	35	195	592	400	2,367	2,482	13	6,097
Unknown	607	3,457	3,573	2,324	563	328	131	454	11,437
TOTAL	2,953	13,004	21,376	20,117	6,926	13,454	6,605	589	85,024

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; 589 cases were missing mother's education, 11,437 cases were missing father's education.

TABLE 1B-22
TOTAL BIRTHS AND RATIOS OF BIRTH BY MOTHER'S MARITAL STATUS^a,
AGE GROUP, AND RACE/ETHNICITY, ARIZONA, 2015

			TOTAL	Mother's age group									
				<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known
All racial/ethnic groups	Married	Count	45,483	0	78	523	6,484	14,455	15,040	7,284	1,527	90	*
		Percent	53.5%	0.0%	4.9%	12.3%	31.6%	57.4%	71.9%	72.0%	69.3%	50.6%	**
	Unmarried	Count	38,479	41	1,502	3,728	13,874	10,428	5,612	2,637	607	48	*
		Percent	45.3%	100.0%	94.9%	87.5%	67.6%	41.4%	26.8%	26.1%	27.6%	27.0%	**
	Unknown	Count	1,060†	0	*	10	167	308	273	191	68	40	*
		Percent	1.2%	0.0%	**	0.2%	0.8%	1.2%	1.3%	1.9%	3.1%	22.5%	**
TOTAL	Count	85,024	41	1,582	4,261	20,525	25,191	20,925	10,112	2,202	178	7	
	Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
White non-Hispanic	Married	Count	25,594	0	25	169	3,005	8,366	9,027	4,133	818	49	*
		Percent	67.0%	0.0%	7.4%	14.2%	41.1%	70.1%	81.7%	80.0%	75.8%	42.2%	**
	Unmarried	Count	12,020†	*	313	1,013	4,233	3,424	1,868	923	215	28	0
		Percent	31.5%	**	92.3%	85.3%	57.9%	28.7%	16.9%	17.9%	19.9%	24.1%	0.0%
	Unknown	Count	560†	0	*	*	74	139	148	109	46	39	*
		Percent	1.5%	0.0%	**	**	1.0%	1.2%	1.3%	2.1%	4.3%	33.6%	**
TOTAL	Count	38,180†	*	339	1,187	7,312	11,929	11,043	5,165	1,079	116	*	
	Percent	100.0%	**	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**	
Hispanic or Latino	Married	Count	14,615	0	51	315	2,956	4,541	4,126	2,136	468	22	0
		Percent	42.7%	0.0%	5.2%	13.1%	29.1%	47.0%	60.0%	63.2%	61.4%	61.1%	0.0%
	Unmarried	Count	19,272	28	920	2,090	7,120	4,976	2,650	1,193	281	14	0
		Percent	56.2%	100.0%	94.7%	86.8%	70.1%	51.6%	38.6%	35.3%	36.9%	38.9%	0.0%
	Unknown	Count	380†	0	*	*	76	135	96	52	13	0	0
		Percent	1.1%	0.0%	**	**	0.7%	1.4%	1.4%	1.5%	1.7%	0.0%	0.0%
TOTAL	Count	34,264	28	972	2,409	10,152	9,652	6,872	3,381	762	36	0	
	Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%	
Black or African American	Married	Count	1,570†	0	*	11	195	456	534	296	70	*	0
		Percent	35.9%	0.0%	**	4.7%	15.6%	37.0%	55.9%	60.0%	61.9%	**	0.0%
	Unmarried	Count	2,760†	*	76	223	1,045	768	412	190	40	*	0
		Percent	63.2%	**	98.7%	95.3%	83.8%	62.2%	43.1%	38.5%	35.4%	**	0.0%
	Unknown	Count	40†	0	0	0	7	10	10	7	*	0	0
		Percent	0.8%	0.0%	0.0%	0.0%	0.6%	0.8%	1.0%	1.4%	**	0.0%	0.0%
TOTAL	Count	4,360†	*	77	234	1,247	1,234	956	493	113	6	0	
	Percent	100.0%	**	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%	
American Indian or Alaska Native	Married	Count	950†	0	*	12	151	299	266	168	47	*	0
		Percent	19.0%	0.0%	**	3.1%	10.0%	20.3%	30.9%	36.2%	43.1%	**	0.0%
	Unmarried	Count	3,970†	7	176	372	1,345	1,151	579	278	57	*	0
		Percent	79.6%	100.0%	99.4%	96.6%	89.4%	78.2%	67.3%	59.9%	52.3%	**	0.0%
	Unknown	Count	70†	0	0	*	9	21	15	18	*	*	0
		Percent	1.4%	0.0%	0.0%	**	0.6%	1.4%	1.7%	3.9%	**	**	0.0%
TOTAL	Count	4,984	7	177	385	1,505	1,471	860	464	109	6	0	
	Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%	
Asian or Pacific Islander	Married	Count	2,759	0	0	16	177	793	1,087	551	124	11	0
		Percent	85.3%	0.0%	0.0%	34.8%	57.3%	87.6%	91.0%	90.5%	89.2%	78.6%	0.0%
	Unmarried	Count	460†	0	17	30	131	109	103	53	14	*	*
		Percent	14.3%	0.0%	100.0%	65.2%	42.4%	12.0%	8.6%	8.7%	10.1%	**	**
	Unknown	Count	10†	0	0	0	*	*	*	*	*	0	0
		Percent	0.4%	0.0%	0.0%	0.0%	**	**	**	**	**	0.0%	0.0%
TOTAL	Count	3,235	0	17	46	309	905	1,194	609	139	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, 2015**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known
All racial/ ethnic groups	TOTAL	85,024	41	1,582	4,260†	20,525	25,191	20,925	10,112	2,202	178	10†
	None	30,348	41	1469	3382	9854	7933	5357	1873	404	35	0
	1	25,623	0	107	749	6988	8140	6347	2771	473	48	0
	2	15,264	0	6	117	2634	5351	4513	2164	444	33	*
	3	7,842	0	0	9	764	2450	2646	1589	354	27	*
	4 or more	5,920†	0	0	*	277	1315	2054	1712	526	35	*
	Unknown	20†	0	0	*	8	*	8	*	*	0	0
White non- Hispanic	TOTAL	38,180†	10†	339	1,190†	7,312	11,929	11,043	5,165	1,079	116	10†
	None	14,680†	*	324	1011	3972	4523	3385	1173	269	20	0
	1	12,223	0	15	157	2399	4030	3668	1640	282	32	0
	2	6,315	0	0	15	709	2200	2126	1028	214	23	0
	3	2,930†	0	0	*	171	847	1124	647	116	19	*
	4 or more	2,011	0	0	0	56	327	733	674	197	22	*
	Unknown	20†	0	0	*	*	*	7	*	*	0	0
Hispanic or Latino	TOTAL	34,264	28	970†	2,410†	10,152	9,652	6,872	3,381	762	40†	0
	None	11,261	28	893	1860	4511	2310	1165	414	71	9	0
	1	9,856	0	75	460	3600	3099	1806	688	120	8	0
	2	6,860†	0	*	82	1453	2455	1864	843	153	*	0
	3	3,710†	0	0	*	435	1164	1182	733	183	6	0
	4 or more	2,580†	0	0	*	151	624	854	703	235	8	0
	Unknown	0†	0	0	*	*	0	*	0	0	0	0
Black or African American	TOTAL	4,360†	0†	77	230†	1,247	1,234	956	493	113	10†	0
	None	1,470†	*	70	181	589	320	205	89	19	0	0
	1	1,200†	0	7	46	409	351	249	113	19	*	0
	2	760†	0	0	*	158	286	201	91	19	*	0
	3	450†	0	0	*	60	160	138	74	16	0	0
	4 or more	480†	0	0	*	30	117	163	126	40	*	0
	Unknown	0†	0	0	0	*	0	0	0	0	0	0
American Indian or Alaska Native	TOTAL	4,984	7	180†	385	1,505	1,471	860	464	110†	10†	0
	None	1,440†	7	166	292	577	253	93	51	*	0	0
	1	1,227	0	9	81	506	407	152	61	11	0	0
	2	940†	0	*	12	287	334	195	85	27	*	0
	3	600†	0	0	0	97	245	154	83	23	*	0
	4 or more	770†	0	0	0	38	232	266	184	43	*	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0
Asian or Pacific Islander	TOTAL	3,235	0	20†	50†	310†	905	1,194	609	139	10†	0†
	None	1,487	0	16	38	205	527	509	146	40	6	0
	1	1,120†	0	*	*	74	253	472	269	41	6	0
	2	380†	0	0	*	27	76	127	117	31	*	*
	3	150†	0	0	0	*	34	48	52	16	*	0
	4 or more	90†	0	0	0	*	15	38	25	11	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0

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

**TABLE 1B-24
CHANGES FROM 2005 TO 2015 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	
	2005	2015	2005	2015	2005	2015	2005	2015	2005	2015	2005	2015	2005	2015
		% Change		% Change		% Change		% Change		% Change		% Change		% Change
Number of births^b	82,141	-10.5	13,603	-15.7	39,657	-3.7	42,156	-18.7	3,450	26.4	6,293	-20.8	2,805	15.3
Per 100 births:														
Teenage mother^c	12.0	-45.0	15.5	-42.2	6.9	-41.9	17.1	-41.8	16.5	-56.6	19.6	-41.8	3.4	-42.7
Unwed mother^d	41.9	5.1	48.4	9.5	26.1	20.6	54.3	3.6	61.9	2.1	72.9	9.2	17.0	-16.0
Early prenatal care^e	78.4	-12.8	73.9	-12.3	87.7	-16.5	69.5	-8.5	76.6	-18.8	67.9	-13.9	86.3	-16.8
0-4 prenatal visits	6.3	-1.6	8.2	11.9	2.8	40.4	9.1	-8.9	8.1	10.4	12.6	15.9	3.5	36.9
C-Section	25.4	10.0	23.1	8.2	27.1	3.8	23.5	12.1	27.4	19.7	20.6	9.9	28.1	20.9
LBW rate	6.9	2.4	7.4	5.0	6.9	-3.7	6.4	7.8	12.6	-2.6	7.3	0.3	8.0	12.4
Newborn intensive care	5.8	23.4	5.5	-5.5	6.5	1.9	5.1	31.9	7.4	47.8	5.1	17.2	5.4	44.8
Preterm births (< 37 weeks)	10.8	-16.3	10.0	-10.5	10.9	-21.5	10.1	-10.6	16.4	-25.3	10.6	-9.3	10.2	-7.9
Births paid for by the AHCCCS^f	52.3	-3.0	54.9	10.3	30.2	16.9	74.1	-6.9	64.0	8.7	55.8	17.4	24.5	3.2

Notes: ^a Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; ^b Per 100 live births; ^c Less than 20 years old; ^d 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, 2015**

	TOTAL	Urban ^a	Rural	Un- known	Mother's race/ethnicity				
					White non- Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
TOTAL	85,024	73,547	11,467	10†	38,180†	34,264	4,360†	4,984	3,235
Mother's age group									
<15	40†	33	8	0	*	28	*	7	0
15-17	1,582	1,297	285	0	339	972	77	177	17
18-19	4,261	3,526	735	0	1,187	2,409	234	385	46
20-24	20,525	17,116	3,409	0	7,312	10,152	1,247	1,505	309
25-29	25,191	21,697	3,492	*	11,929	9,652	1,234	1,471	905
30-34	20,925	18,731	2,192	*	11,043	6,872	956	860	1,194
35-39	10,112	9,018	1,093	*	5,165	3,381	493	464	609
40-44	2,202	1,967	234	*	1,079	762	113	109	139
45+	178	158	19	*	116	36	6	6	14
Unknown	10†	*	0	*	*	0	0	0	*
Payee for birth									
AHCCCS	44,261	37,309	6,945	7	13,481	23,633	3,035	3,294	818
IHS	1,180†	707	469	0	71	67	*	1,030	*
Private insurance	35,192	31,780	3,411	*	22,287	9,027	1,089	550	2,239
Self-pay	4,107	3,517	590	0	2,176	1,454	219	95	163
Unknown	288	234	52	*	165	83	14	15	11
Mother's education									
8th Grade or Less	2,953	2,731	222	0	288	2,282	179	105	99
Some High School	13,004	11,032	1,972	0	2,714	8,248	606	1,275	161
High School / GED	21,376	17,832	3,542	*	7,339	10,675	1,271	1,666	425
Some College	20,117	17,107	3,010	0	9,910	7,219	1,254	1,335	399
Associate Degree	6,926	5,866	1,060	0	3,792	2,246	349	359	180
Bachelor's Degree	13,454	12,323	1,130	*	9,205	2,569	444	161	1,075
Postgraduate Education	6,605	6,149	456	0	4,485	940	233	64	883
Unknown	582	503	75	*	440	85	25	13	13
Marital status									
Married	45,483	40,258	5,225	0	25,594	14,615	1,567	948	2,759
Unmarried ^b	38,479	32,398	6,077	*	12,022	19,272	2,757	3,966	462
Unknown	1,062	891	165	6	564	377	37	70	14
Weight gain									
Inadequate	18,916	16,305	2,611	0	7,157	8,629	1,079	1,160	891
Adequate	26,383	22,915	3,464	*	11,966	10,620	1,160	1,461	1,176
Excessive	39,217	33,873	5,339	*	18,879	14,769	2,087	2,330	1,152
Unknown	508	454	53	*	178	246	35	33	16
Smoking during pregnancy									
Non-smoker	80,133	69,931	10,197	*	34,759	33,379	4,016	4,794	3,185
Light smoker (less than 10 cigarettes per day)	2,549	1,975	574	0	1,623	548	220	137	21
Heavy smoker (10 or more cigarettes per day)	1,847	1,385	460	*	1,464	237	98	34	14
Unknown	495	256	236	*	334	100	27	19	15
Length of gestation									
<37 weeks	7,677	6,646	1,026	*	3,265	3,095	534	479	304
37-41 weeks	76,913	66,547	10,362	*	34,696	31,044	3,795	4,456	2,922
42+ weeks	280†	245	36	0	145	82	28	21	*
Unknown	150†	109	43	*	74	43	*	28	*
Weight at birth									
<1,000 grams	449	398	51	0	161	182	56	31	19
1,000-1,499	523	432	89	*	224	202	43	35	19
1,500-2,499	5,121	4,369	751	*	2,153	1,980	436	299	253
2,500-3,999	72,240	62,412	9,823	*	32,163	29,533	3,610	4,143	2,791
4000+ grams	6,634	5,895	738	*	3,449	2,351	212	472	150
Unknown	60†	41	15	*	30	16	*	*	*

**TABLE 1B-25 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
ARIZONA, 2015**

	TOTAL	Urban ^a	Rural	Un- known	Mother's race/ethnicity						
					White non- Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander		
Prenatal care											
No care	1,862	1,521	339	*	486	1,013	111	212	40		
1st trimester	57,696	50,264	7,429	*	27,957	21,789	2,712	2,914	2,324		
2nd trimester	14,977	12,533	2,442	*	5,190	7,118	977	1,231	461		
3rd trimester	4,681	3,911	770	0	1,414	2,381	303	421	162		
Unknown	5,808	5,318	487	*	3,133	1,963	258	206	248		
Prenatal visits											
No visits	1,862	1,521	339	*	486	1,013	111	212	40		
1-4 visits	3,752	3,038	713	*	1,015	1,827	279	516	115		
5-8 visits	12,912	10,565	2,343	*	4,349	6,121	803	1,209	430		
9-12 visits	39,648	34,740	4,907	*	17,930	16,058	2,013	2,059	1,588		
13+ visits	25,829	22,772	3,057	0	13,817	8,954	1,106	931	1,021		
Unknown	1,021	911	108	*	583	291	49	57	41		
Newborn intensive care											
Yes	5,861	5,262	596	*	2,528	2,305	477	298	253		
No	79,163	68,285	10,871	7	35,652	31,959	3,884	4,686	2,982		
Method of delivery											
Vaginal	59,485	51,305	8,172	8	26,406	24,454	2,841	3,776	2,008		
C-Section	23,422	20,555	2,866	*	10,739	9,026	1,430	1,128	1,099		
Forceps	337	303	34	0	158	129	21	15	14		
Vacuum	1,773	1,378	395	0	870	655	69	65	114		
Unknown	7	6	0	*	7	0	0	0	0		
Obstetric procedures^c											
Total	38,900	33,655	5,243	2	17,579	15,750	1,946	2,254	1,371		
Induction of labor	23,841	20,609	3,231	*	11,334	9,157	1,293	1,304	753		
Augmentation of labor	18,607	16,211	2,395	*	7,719	8,146	839	1,171	732		
Cervical cerclage	130†	113	19	0	61	44	15	*	7		
Tocolysis	180†	136	46	0	93	62	8	16	*		
External cephalic version successful	60†	42	16	0	37	10	*	6	*		
External cephalic version failed	80†	58	21	0	36	20	*	19	*		
Births with medical risk factors^d											
Total	17,322	14,941	2,378	3	6,689	7,145	1,015	1,763	710		
Pre-existing diabetes	765	631	134	0	249	304	40	139	33		
Gestational diabetes	6,418	5,669	747	*	2,292	2,699	267	721	439		
Pre-existing hypertension	968	827	141	0	399	373	99	72	25		
Gestational hypertension	5,089	4,375	714	0	2,167	1,970	334	512	106		
Eclampsia	146	121	25	0	54	54	8	21	9		
Previous preterm birth	3,304	2,840	464	0	1,409	1,354	191	246	104		
Other previous poor pregnancy outcome	963	810	152	*	448	353	53	77	32		
Gonorrhea	230†	192	33	0	64	99	32	29	*		
Syphilis	70†	67	7	0	17	39	6	10	*		
Chlamydia	2,219	1,841	377	*	468	1,188	174	350	39		
Hepatitis B	120†	110	7	0	38	18	25	*	33		
Hepatitis C	170†	134	36	0	103	48	*	12	*		

TABLE 1B-25 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
ARIZONA, 2015

	TOTAL	Urban ^a	Rural	Un- known	Mother's race/ethnicity				
					White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
Births with complications of labor and delivery^f	20,763	18,321	2,440	2	8,589	8,740	1,231	1,357	846
Premature rupture of the membranes	2,988	2,537	450	*	1,284	1,106	155	313	130
Precipitous labor	4,337	3,845	492	0	1,415	2,199	294	287	142
Prolonged labor	1,653	1,418	234	*	767	579	88	142	77
Breech presentation	3,025	2,574	451	0	1,504	1,096	134	162	129
Chorioamnionitis	1,781	1,620	161	0	610	884	71	113	103
Meconium staining of the amniotic fluid	5,757	5,266	490	*	2,239	2,552	395	339	232
Fetal intolerance	4,502	3,988	514	0	2,019	1,752	309	237	185
Maternal transfusion	272	194	78	0	89	94	15	66	8
Third or fourth degree perineal laceration	329	282	47	0	163	100	14	25	27
Ruptured uterus	40†	33	*	0	16	16	*	*	0
Unplanned Hysterectomy	40†	33	6	0	14	14	0	9	*
Admission to intensive care unit	112	95	17	0	48	31	11	14	8
Unplanned surgery following delivery	153	113	40	0	60	47	6	33	7
Total	3,580	2,924	655	1	1,707	1,255	204	261	153
Abnormal conditions of the newborn^c	2,411	1,918	492	*	1,179	834	149	159	90
Assisted ventilation immediately after delivery	1,164	994	170	0	623	367	71	63	40
Assisted ventilation for more than 6 hours	329	292	37	0	168	107	26	16	12
Surfactant replacement therapy	1,669	1,412	257	0	769	594	86	139	81
Suspected neonatal sepsis	30†	24	*	0	15	7	*	*	0
Seizure or serious neurologic dysfunction	130†	110	15	0	67	40	6	10	*
Significant birth injury	408	322	86	0	194	137	19	50	8
Total	20†	14	*	0	*	8	*	*	0
Congenital anomalies of the newborn^c	10†	10	*	0	*	7	0	*	0
Anencephalus	40†	35	*	0	19	13	*	*	*
Spina bifida / Meningocele	10†	6	0	0	*	*	0	*	0
Cyanotic congenital heart disease	40†	33	*	0	13	18	*	*	*
Congenital diaphragmatic hernia	10†	10	*	0	7	6	0	*	0
Omphalocele / Gastroschisis	70†	63	9	0	44	23	*	*	*
Limb reduction defect	60†	45	11	0	25	23	*	*	*
Cleft lip / palate	40†	30	6	0	16	16	*	*	*
Down syndrome	30†	23	7	0	25	*	0	0	0
Suspected chromosomal disorder	130†	80	46	0	51	29	7	37	*
Hypospadias									
Unknown congenital anomalies									

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

**TABLE 1B-26
CHANGES FROM 2005 TO 2015 IN SELECTED CHARACTERISTICS OF NEWBORNS AND ARIZONA WOMEN GIVING BIRTH
WHICH DIFFER BY PAYEE FOR THE DELIVERY**

Characteristics	AHCCCS ^a			Indian Health Service			Private Health Insurance			Self-pay		
	2005	2015	% Change	2005	2015	% Change	2005	2015	% Change	2005	2015	% Change
Number of births^b	50,407	44,261	-12.2	1,703	1,176	-30.9	39,895	35,192	-11.8	2,656	4,107	54.6
Per 100 births:												
Teenage mother^c	19.3	11.0	-42.9	20.1	11.7	-41.6	3.6	1.8	-50.6	9.9	7.1	-28.6
Unwed mother^d	63.5	66.2	4.3	74.5	78.5	5.4	15.7	19.2	22.4	37.2	38.5	3.6
Early prenatal care^e	68.4	61.1	-10.7	61.6	55.8	-9.4	91.6	75.6	-17.4	62.8	80.3	27.8
0-4 prenatal visits	9.3	8.9	-4.2	14.3	17.2	20.1	1.4	2.2	54.1	21.3	22.3	4.5
C-Section^f	22.7	26.1	14.9	19.5	23.2	19.0	28.9	29.3	1.5	18.1	29.3	61.8
LBW rate	7.2	7.7	6.8	5.5	6.0	9.8	6.5	6.4	-1.0	7.7	8.5	10.4
Newborn intensive care	5.7	7.5	31.3	2.5	4.7	87.1	5.9	6.1	2.8	6.8	8.8	29.1
Preterm birth < 37 weeks	10.9	9.6	-12.1	7.3	8.4	15.3	10.5	8.2	-21.8	10.7	10.9	1.6

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
PAYEE FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2015

	TOTAL	Payee for birth				
		AHCCCS ^a	IHS	Private Insurance	Self-pay	Unknown
TOTAL	85,024	44,261	1,180†	35,190†	4,110†	290†
Mother's age group						
<15	40†	35	*	*	*	0
15-17	1,582	1,293	46	168	71	*
18-19	4,261	3,552	90	478	130	11
20-24	20,525	14,520	383	4,676	875	71
25-29	25,191	12,613	350	10,863	1,275	90
30-34	20,925	7,598	182	11,934	1,142	69
35-39	10,112	3,673	103	5,824	478	34
40-44	2,202	905	19	1,156	114	8
45+	180†	69	*	87	20	*
Unknown	10†	*	0	*	0	0
Mother's race/ethnicity						
White non-Hispanic	38,180	13,481	71	22,287	2,176	165
Hispanic or Latino	34,264	23,633	67	9,027	1,454	83
Black or African American	4,360†	3,035	*	1,089	219	14
American Indian or Alaska Native	4,984	3,294	1,030	550	95	15
Asian or Pacific Islander	3,240†	818	*	2,239	163	11
8th Grade or Less	2,953	2,626	36	162	121	8
Some High School	13,004	11,255	298	1,025	401	25
High School / GED	21,376	14,907	377	5,231	804	57
Some College	20,117	10,194	317	8,520	1,023	63
Associate Degree	6,926	2,492	72	3,934	407	21
Bachelor's Degree	13,454	1,951	50	10,474	930	49
Postgraduate Education	6,605	474	18	5,726	371	16
Unknown	589	362	8	120	50	49
Marital status						
Married	45,483	14,159	237	28,039	2,915	133
Unmarried ^b	38,479	29,315	923	6,998	1,106	137
Unknown	1,062	787	16	155	86	18
Weight gain						
Inadequate	18,916	11,051	261	34,261	3,845	68
Adequate	26,383	12,990	367	455	73	73
Excessive	39,217	19,921	540	301	63	103
Unknown	508	299	8	175	126	44
Smoking during pregnancy						
Non-smoker	80,133	40,664	1,131	35,373	2,733	232
Light smoker (less than 10 cigarettes per day)	2,549	1,980	34	486	42	7
Heavy smoker (10 or more cigarettes per day)	1,847	1,467	6	319	45	10
Unknown	500†	150	*	250	51	39
Length of gestation						
<37 weeks	7,677	4,241	99	2,990	312	35
37-41 weeks	76,913	39,820	1,062	32,070	3,733	228
42+ weeks	281	132	10	108	30	*
Unknown	150†	68	*	24	32	24
Weight at birth						
<1,000 grams	450†	257	*	162	17	8
1,000-1,499	523	274	6	218	24	*
1,500-2,499	5,121	2,872	60	1,965	203	21
2,500-3,999	72,240	37,717	978	29,857	3,457	231
4000+ grams	6,634	3,123	127	2,968	400	16
Unknown	57	18	0	22	6	11

**TABLE 1B-27 (continued)
PAYEE FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2015**

	TOTAL	Payee for birth				
		AHCCCS ^a	IHS	Private Insurance	Self-pay	Unknown
Prenatal care						
No care	1,862	1,227	64	188	354	29
1st trimester	57,696	27,049	656	27,549	2,305	137
2nd trimester	14,977	10,136	299	3,730	769	43
3rd trimester	4,681	3,318	114	857	379	13
Unknown	5,808	2,531	43	2,868	300	66
Prenatal visits						
No visits	1,862	1,227	64	188	354	29
1-4 visits	3,752	2,717	138	598	285	14
5-8 visits	12,912	8,451	318	3,463	643	37
9-12 visits	39,648	20,455	465	17,032	1,597	99
13+ visits	25,829	10,976	177	13,458	1,156	62
Unknown	1,021	435	14	453	72	47
Newborn intensive care						
Yes	5,861	3,312	55	2,210	252	32
No	79,163	40,949	1,121	32,982	3,855	256
Method of delivery						
Vaginal	59,485	31,634	882	23,607	3,162	200
C-Section	23,422	11,547	273	10,686	841	75
Forceps	340 [†]	180	*	138	16	*
Vacuum	1,773	900	19	761	88	*
Unknown	7	0	0	0	0	7
Total	38,900	20,281	544	16,369	1,601	105
Obstetric procedures^c						
Induction of labor	23,841	12,430	289	10,194	866	62
Augmentation of labor	18,607	9,683	313	7,665	890	56
Cervical cerclage	130 [†]	56	*	63	9	*
Tocolysis	180 [†]	83	*	85	8	*
External cephalic version successful	60 [†]	29	*	23	*	0
External cephalic version failed	80 [†]	31	*	41	*	0
Total	17,322	9,714	450	6,500	601	57
Births with medical risk factors^c						
Pre-existing diabetes	765	467	34	244	19	*
Gestational diabetes	6,418	3,303	188	2,728	176	23
Pre-existing hypertension	968	532	20	388	25	*
Gestational hypertension	5,089	2,645	132	2,109	185	18
Eclampsia	150 [†]	86	*	51	*	*
Previous preterm birth	3,304	1,953	62	1,145	137	7
Other previous poor pregnancy outcome	963	500	19	382	58	*
Gonorrhea	225	185	7	25	7	*
Syphilis	70 [†]	57	*	7	*	*
Chlamydia	2,219	1,761	91	300	62	*
Hepatitis B	117	62	0	48	7	0
Hepatitis C	170 [†]	140	*	14	11	*

TABLE 1B-27 (continued)
PAYEE FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2015

	TOTAL	Payee for birth				
		AHCCCS ^a	IHS	Private Insurance	Self-pay	Unknown
Births with complications of labor and delivery^c						
Total	20,763	11,096	363	8,123	1,124	57
Premature rupture of the membranes	2,988	1,468	86	1,270	153	11
Precipitous labor	4,337	2,732	69	1,200	328	8
Prolonged labor	1,653	761	29	774	86	*
Breech presentation	3,025	1,387	43	1,449	136	10
Chorioamnionitis	1,781	946	28	699	102	6
Meconium staining of the amniotic fluid	5,757	3,220	98	2,109	315	15
Fetal intolerance	4,502	2,298	80	1,894	212	18
Maternal transfusion	272	146	22	82	20	*
Third or fourth degree perineal laceration	330†	140	*	163	22	*
Ruptured uterus	40†	21	0	12	*	0
Unplanned Hysterectomy	40†	19	*	13	*	0
Admission to intensive care unit	110†	74	*	27	6	0
Unplanned surgery following delivery	153	84	8	43	18	0
Total	3,580	1,925	48	1,417	171	19
Abnormal conditions of the newborn^c						
Total	2,411	1,320	30	937	111	13
Assisted ventilation immediately after delivery	1,164	594	10	505	48	7
Assisted ventilation for more than 6 hours	330†	159	*	148	17	0
Surfactant replacement therapy	1,669	885	20	675	81	8
Suspected neonatal sepsis	27	11	0	15	0	*
Seizure or serious neurologic dysfunction	130†	66	*	48	8	0
Significant birth injury	408	226	15	132	22	13
Total	20†	11	0	*	0	0
Congenital anomalies of the newborn^c						
Total	10†	7	0	*	0	0
Anencephalus	40†	29	0	9	*	0
Spina bifida / Meningocele	10†	*	0	*	0	0
Cyanotic congenital heart disease	10†	*	0	*	0	0
Congenital diaphragmatic hernia	40†	21	*	10	*	*
Omphalocele / Gastroschisis	14	8	0	6	0	0
Limb reduction defect	72	36	0	29	7	0
Cleft lip / palate	60†	30	*	23	*	0
Down syndrome	40†	23	*	10	*	0
Suspected chromosomal disorder	30†	12	0	15	*	0
Hypospadias	126	68	11	29	6	12

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

**TABLE 1B-28
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND PARTY PAYING FOR THE DELIVERY,
ARIZONA, 2015**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known
All racial/ ethnic groups	AHCCCS	44,261	35	1,293	3,552	14,520	12,613	7,598	3,673	905	69	*
	IHS	1,180†	*	46	90	383	350	182	103	19	*	0
	Private insurance	35,190†	*	168	478	4,676	10,863	11,934	5,824	1,156	87	*
	Self-pay	4,110†	*	71	130	875	1,275	1,142	478	114	20	0
	Unknown	290†	0	*	11	71	90	69	34	8	*	0
	TOTAL	85,024	40†	1,582	4,261	20,525	25,191	20,925	10,112	2,202	180†	10†
White non- Hispanic	AHCCCS	13,480†	*	255	929	4,352	4,200	2,387	1,049	261	41	*
	IHS	70†	0	*	*	23	20	12	9	0	0	0
	Private insurance	22,290†	*	64	211	2,504	6,957	7,938	3,797	754	59	*
	Self-pay	2,176	0	15	41	395	697	665	287	61	15	0
	Unknown	170†	0	*	*	38	55	41	23	*	*	0
	TOTAL	38,180†	10†	340†	1,190†	7,312	11,929	11,043	5,165	1,079	116	10†
Hispanic or Latino	AHCCCS	23,633	26	838	2,106	7,951	6,324	3,897	1,972	500	19	0
	IHS	70†	0	*	*	24	22	10	*	*	0	0
	Private insurance	9,027	0	80	211	1,762	2,850	2,619	1,267	224	14	0
	Self-pay	1,450†	*	50	81	391	428	330	136	33	*	0
	Unknown	80†	0	*	8	24	28	16	*	*	0	0
	TOTAL	34,264	30†	970†	2,410†	10,152	9,652	6,872	3,380†	760†	40†	0
Black or African American	AHCCCS	3,040†	*	65	203	1,014	883	544	264	59	*	0
	IHS	0†	0	0	0	*	0	0	0	0	0	0
	Private insurance	1,090†	0	8	28	187	278	339	202	45	*	0
	Self-pay	220†	0	*	*	38	72	68	24	9	*	0
	Unknown	10†	0	*	0	*	*	*	*	0	0	0
	TOTAL	4,360†	0†	80†	230†	1,250†	1,234	956	493	113	10†	0
American Indian or Alaska Native	AHCCCS	3,290†	*	123	279	1,024	986	542	278	55	*	0
	IHS	1,030†	*	39	83	332	307	159	89	18	*	0
	Private insurance	550†	*	13	21	109	152	132	88	32	*	0
	Self-pay	100†	0	*	*	36	24	24	*	*	0	0
	Unknown	20†	0	*	0	*	*	*	*	*	0	0
	TOTAL	4,984	10†	180†	390†	1,505	1,471	860	460†	110†	10†	0
Asian or Pacific Islander	AHCCCS	820†	0	12	35	179	220	228	110	30	*	0
	IHS	0†	0	0	*	0	*	*	*	0	0	0
	Private insurance	2,240†	0	*	7	114	626	906	470	101	10	*
	Self-pay	160†	0	*	*	15	54	55	26	8	0	0
	Unknown	10†	0	0	0	*	*	*	*	0	0	0
	TOTAL	3,240†	0	20†	50†	309	910†	1,190†	610†	139	10†	0†

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

**TABLE 1B-29
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND TRIMESTER
OF PREGNANCY PRENATAL CARE BEGAN, ARIZONA, 2015**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known
All racial/ethnic groups	No care	1,860†	*	70	157	538	507	325	187	58	16	0
	1st trimester	57,696	14	780	2,337	12,766	17,541	15,310	7,343	1,497	107	*
	2nd trimester	14,977	12	467	1,143	4,510	4,040	2,893	1,483	399	27	*
	3rd trimester	4,681	10	176	410	1,450	1,270	851	403	98	13	0
	Unknown	5,810†	*	89	214	1,261	1,833	1,546	696	150	15	*
	TOTAL	85,024	40†	1,582	4,261	20,525	25,191	20,925	10,112	2,202	178	10†
White non-Hispanic	No care	486	0	7	26	106	141	103	63	24	16	0
	1st trimester	27,960†	*	205	724	4,904	8,842	8,448	3,969	793	68	*
	2nd trimester	5,190†	*	81	292	1,366	1,503	1,217	566	149	14	*
	3rd trimester	1,410†	*	28	79	414	411	290	147	33	11	0
	Unknown	3,133	0	18	66	522	1,032	985	420	80	7	*
	TOTAL	38,180†	10†	339	1,187	7,312	11,929	11,043	5,165	1,079	116	10†
Hispanic or Latino	No care	1,010†	*	53	107	324	257	160	86	22	0	0
	1st trimester	21,789	10	468	1,263	6,125	6,376	4,778	2,285	464	20	0
	2nd trimester	7,118	6	283	659	2,371	1,796	1,162	657	175	9	0
	3rd trimester	2,380†	7	109	260	777	616	386	176	48	*	0
	Unknown	1,960†	*	59	120	555	607	386	177	53	*	0
	TOTAL	34,264	30†	972	2,409	10,152	9,652	6,872	3,381	762	40†	0
Black or African American	No care	110†	0	*	12	35	31	14	11	*	0	0
	1st trimester	2,712	0	35	131	726	774	648	319	73	6	0
	2nd trimester	980†	*	28	64	304	278	181	93	28	0	0
	3rd trimester	300†	0	7	19	97	85	56	34	*	0	0
	Unknown	260†	0	*	8	85	66	57	36	*	0	0
	TOTAL	4,360†	0†	80†	234	1,247	1,234	956	493	110†	6	0
American Indian or Alaska Native	No care	210†	0	*	12	66	66	38	20	6	0	0
	1st trimester	2,910†	*	68	195	828	896	552	299	71	*	0
	2nd trimester	1,230†	*	66	118	402	332	180	106	22	*	0
	3rd trimester	420†	*	31	44	138	112	62	25	7	0	0
	Unknown	210†	0	8	16	71	65	28	14	*	*	0
	TOTAL	4,984	10†	180†	385	1,505	1,471	860	464	109	10†	0
Asian or Pacific Islander	No care	40†	0	*	0	7	12	10	7	*	0	0
	1st trimester	2,320†	0	*	24	183	653	884	471	96	9	0
	2nd trimester	460†	0	9	10	67	131	153	61	25	*	*
	3rd trimester	160†	0	*	8	24	46	57	21	*	0	0
	Unknown	250†	0	*	*	28	63	90	49	10	*	0
	TOTAL	3,235	0	20†	46	309	905	1,194	609	140†	10†	0†

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

**TABLE 1B-30
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND NUMBER OF PRENATAL VISITS,
ARIZONA, 2015**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un- known
All racial/ ethnic groups	No visits	1,860†	*	70	157	538	507	325	187	58	16	0
	1-4 visits	3,752	7	143	323	1,184	1,014	690	305	74	11	*
	5-8 visits	12,912	11	349	895	3,802	3,663	2,617	1,241	299	33	*
	9-12 visits	39,648	18	709	1,968	9,554	11,798	9,937	4,676	938	48	*
	13+ visits	25,830†	*	294	872	5,248	7,918	7,066	3,568	800	62	0
	Unknown	1,021	0	17	46	199	291	290	135	33	8	*
	TOTAL	85,024	40†	1,582	4,261	20,525	25,191	20,925	10,112	2,202	178	10†
White non- Hispanic	No visits	486	0	7	26	106	141	103	63	24	16	0
	1-4 visits	1,020†	*	19	57	269	288	228	112	30	10	*
	5-8 visits	4,350†	*	62	217	1,089	1,281	1,039	528	111	19	*
	9-12 visits	17,930†	*	166	572	3,454	5,616	5,281	2,346	466	27	0
	13+ visits	13,820†	*	80	300	2,312	4,434	4,194	2,027	428	41	0
	Unknown	580†	0	*	15	82	169	198	89	20	*	*
	TOTAL	38,180†	10†	339	1,187	7,312	11,929	11,043	5,165	1,079	116	10†
Hispanic or Latino	No visits	1,010†	*	53	107	324	257	160	86	22	0	0
	1-4 visits	1,830†	*	86	185	614	488	299	117	32	*	0
	5-8 visits	6,121	7	230	526	2,008	1,652	1,083	474	131	10	0
	9-12 visits	16,058	12	416	1,113	4,793	4,566	3,219	1,618	308	13	0
	13+ visits	8,954	0	176	454	2,332	2,605	2,056	1,061	261	9	0
	Unknown	290†	0	11	24	81	84	55	25	8	*	0
	TOTAL	34,264	30†	972	2,409	10,152	9,652	6,872	3,381	762	40†	0
Black or African American	No visits	110†	0	*	12	35	31	14	11	*	0	0
	1-4 visits	280†	0	7	17	102	69	53	29	*	0	0
	5-8 visits	803	0	16	43	242	238	169	74	21	0	0
	9-12 visits	2,010†	*	43	107	567	578	448	215	51	*	0
	13+ visits	1,110†	0	6	51	289	307	257	158	35	*	0
	Unknown	50†	0	0	*	12	11	15	6	*	0	0
	TOTAL	4,360†	0†	80†	234	1,247	1,234	956	493	110†	10†	0
American Indian or Alaska Native	No visits	210†	0	*	12	66	66	38	20	6	0	0
	1-4 visits	520†	*	30	52	175	148	69	33	8	0	0
	5-8 visits	1,210†	*	38	103	407	357	188	96	16	*	0
	9-12 visits	2,060†	*	74	156	611	586	384	191	53	*	0
	13+ visits	930†	0	30	59	224	295	174	122	24	*	0
	Unknown	60†	0	*	*	22	19	7	*	*	*	0
	TOTAL	4,984	10†	180†	385	1,505	1,471	860	464	109	10†	0
Asian or Pacific Islander	No visits	40†	0	*	0	7	12	10	7	*	0	0
	1-4 visits	120†	0	*	12	24	21	41	14	*	0	0
	5-8 visits	430†	0	*	6	56	135	138	69	20	*	0
	9-12 visits	1,590†	0	10	20	129	452	605	306	60	*	*
	13+ visits	1,020†	0	*	8	91	277	385	200	52	6	0
	Unknown	40†	0	0	0	*	8	15	13	*	*	0
	TOTAL	3,235	0	20†	46	309	905	1,194	609	140†	10†	0†

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

**TABLE 1B-31
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2015**

	TOTAL	Prenatal care				Visits			
		No care	1st trimester	2nd trimester	3rd trimester	Un-known	Less than 5	5 or more	Un-known
TOTAL	85,024	1,860†	57,696	14,977	4,680†	5,810†	5,614	78,389	1,020†
Mother's age group	40†	*	14	12	10	*	11	30	0
15-17	1,582	70	780	467	176	89	213	1,352	17
18-19	4,261	157	2,337	1,143	410	214	480	3,735	46
20-24	20,525	538	12,766	4,510	1,450	1,261	1,722	18,604	199
25-29	25,191	507	17,541	4,040	1,270	1,833	1,521	23,379	291
30-34	20,925	325	15,310	2,893	851	1,546	1,015	19,620	290
35-39	10,112	187	7,343	1,483	403	696	492	9,485	135
40-44	2,202	58	1,497	399	98	150	132	2,037	33
45+	178	16	107	27	13	15	27	143	8
Unknown	10†	0	*	*	0	*	*	*	*
Payee for birth	44,261	1,227	27,049	10,136	3,318	2,531	3,944	39,882	435
IHS	1,176	64	656	299	114	43	202	960	14
Private insurance	35,192	188	27,549	3,730	857	2,868	786	33,953	453
Self-pay	4,107	354	2,305	769	379	300	639	3,396	72
Unknown	288	29	137	43	13	66	43	198	47
Mother's education	2,953	182	1,479	818	304	170	417	2,503	33
8th Grade or Less	13,004	572	7,208	3,330	1,207	687	1,632	11,245	127
Some High School	21,376	510	13,737	4,418	1,349	1,362	1,624	19,533	219
High School / GED	20,117	275	14,312	3,351	840	1,339	918	18,984	215
Some College	6,926	88	5,117	948	271	502	287	6,571	68
Associate Degree	13,454	110	10,336	1,424	459	1,125	398	12,844	212
Bachelor's Degree	6,605	32	5,266	570	187	550	167	6,340	98
Postgraduate Education	582	93	240	117	64	68	170	367	45
Unknown	45,483	492	33,644	6,151	1,825	3,371	1,719	43,219	545
Marital status	38,479	1,285	23,499	8,589	2,739	2,367	3,687	34,347	445
Married	1,062	85	553	237	117	70	208	823	31
Unmarried ^a	18,916	632	11,911	3,549	1,475	1,349	1,966	16,686	264
Unknown	26,383	516	18,103	4,707	1,252	1,805	1,536	24,545	302
Weight gain	39,217	598	27,497	6,660	1,909	2,553	1,942	36,863	412
Inadequate	508	116	185	61	45	101	170	295	43
Adequate	80,133	1,546	54,970	13,865	4,273	5,479	4,850	74,353	930
Excessive	2,549	146	1,436	601	210	156	382	2,136	31
Unknown	1,847	126	1,034	415	160	112	291	1,527	29
Smoking during pregnancy	495	44	256	96	38	61	91	373	31
Non-smoker									
Light smoker (less than 10 cigarettes per day)									
Heavy smoker (10 or more cigarettes per day)									
Unknown									

TABLE 1B-31 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2015

	TOTAL	Prenatal care						Visits				
		No care	1st trimester	2nd trimester	3rd trimester	Un-known	Less than 5	5 or more	Un-known			
Length of gestation												
<37 weeks	7,677	466	5,083	1,182	280	666	1,169	6,328	180			
37-41 weeks	76,913	1,322	52,488	13,692	4,369	5,042	4,333	71,784	796			
42+ weeks	281	29	125	56	32	39	54	226	*			
Unknown	153	45	0	47	0	61	58	51	44			
Weight at birth												
<1,000 grams	450†	42	304	53	*	49	171	262	16			
1,000-1,499	523	37	338	86	11	51	104	404	15			
1,500-2,499	5,121	239	3,319	928	228	407	616	4,396	109			
2,500-3,999	72,240	1,454	49,053	12,845	4,109	4,779	4,430	66,995	815			
4000+ grams	6,634	79	4,663	1,054	330	508	277	6,304	53			
Unknown	60†	11	19	11	*	14	16	28	13			
Newborn intensive care												
Yes	5,861	300	3,849	1,029	322	361	761	4,966	134			
No	79,163	1,562	53,847	13,948	4,359	5,447	4,853	73,423	887			
Method of delivery												
Vaginal	59,485	1,361	39,749	10,780	3,386	4,209	4,044	54,726	715			
C-Section	23,422	433	16,526	3,808	1,149	1,506	1,420	21,719	283			
Forceps	337	10	219	73	23	12	23	312	*			
Vacuum	1,773	58	1,202	316	123	74	127	1,632	14			
Unknown	7	0	0	0	0	7	0	0	7			
Obstetric procedures^b												
Total	38,900	738	26,730	7,204	2,385	1,843	2,351	36,192	357			
Induction of labor	23,841	414	16,534	4,299	1,414	1,180	1,212	22,449	180			
Augmentation of labor	18,607	442	12,579	3,530	1,210	846	1,372	17,039	196			
Cervical cerclage	130†	*	112	14	*	*	9	122	*			
Tocolysis	180†	*	137	32	*	7	19	163	0			
External cephalic version successful	60†	0	45	9	*	*	*	56	*			
External cephalic version failed	80†	*	54	15	*	*	*	72	*			
Births with medical risk factors^b												
Total	17,322	362	11,837	3,171	1,054	898	1,276	15,841	205			
Pre-existing diabetes	765	12	541	133	37	42	45	709	11			
Gestational diabetes	6,418	48	4,643	1,050	313	364	251	6,094	73			
Pre-existing hypertension	968	28	679	165	41	55	82	875	11			
Gestational hypertension	5,089	122	3,437	964	293	273	399	4,628	62			
Eclampsia	150†	*	93	26	7	16	19	122	*			
Previous preterm birth	3,304	103	2,272	600	186	143	333	2,920	51			
Other previous poor pregnancy outcome	963	18	701	146	56	42	76	870	17			
Gonorrhea	225	10	122	59	25	9	28	194	*			
Syphilis	70†	*	47	9	9	*	14	57	*			
Chlamydia	2,219	71	1,266	574	241	67	244	1,962	13			
Hepatitis B	117	7	70	24	8	8	12	104	*			
Hepatitis C	170	14	87	38	21	10	40	128	*			

**TABLE 1B-31 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2015**

	TOTAL	Prenatal care				Visits			
		No care	1st trimester	2nd trimester	3rd trimester	Un-known	Less than 5	5 or more	Un-known
Births with complications of labor and delivery^b									
Total	20,763	671	13,696	3,823	1,287	1,286	1,760	18,777	226
Premature rupture of the membranes	2,988	99	2,140	456	114	179	275	2,669	44
Prolonged labor	4,337	236	2,529	948	391	233	533	3,749	55
Breech presentation	1,653	32	1,194	258	74	95	94	1,545	14
Chorioamnionitis	3,025	94	2,109	501	137	184	266	2,708	51
Meconium staining of the amniotic fluid	1,781	49	1,177	365	103	87	123	1,644	14
Fetal intolerance	5,757	187	3,562	1,134	386	488	485	5,222	50
Maternal transfusion	4,502	89	3,166	767	264	216	267	4,202	33
Third or fourth degree perineal laceration	27	27	160	46	29	10	68	199	*
Ruptured uterus	329	7	240	54	19	9	15	310	*
Unplanned Hysterectomy	40†	*	27	*	*	*	7	31	0
Admission to intensive care unit	40†	*	24	9	0	*	9	30	0
Unplanned surgery following delivery	112	17	65	17	6	7	28	83	*
Total	153	9	103	25	12	*	28	124	*
Abnormal conditions of the newborn^b									
Total	3,580	163	2,409	596	197	215	435	3,063	82
Assisted ventilation immediately after delivery	2,411	121	1,593	392	146	159	331	2,018	62
Assisted ventilation for more than 6 hours	1,164	65	796	170	54	79	186	943	35
Surfactant replacement therapy	329	22	212	55	10	30	78	239	12
Suspected neonatal sepsis	1,669	80	1,143	283	81	82	226	1,416	27
Seizure or serious neurologic dysfunction	30†	*	14	*	*	*	*	23	*
Significant birth injury	130†	*	86	22	9	*	12	111	*
Total	408	21	253	68	33	33	54	345	9
Congenital anomalies of the newborn^b									
Anencephalus	20†	0	11	*	*	*	*	11	*
Spina bifida / Meningocele	10†	0	7	*	*	*	0	10	*
Cyanotic congenital heart disease	40†	*	17	12	9	0	7	32	0
Congenital diaphragmatic hernia	10†	0	*	*	*	0	*	*	0
Omphalocele / Gastroschisis	40†	*	26	6	*	*	*	32	*
Limb reduction defect	10†	0	8	*	0	*	*	11	*
Cleft lip / palate	70†	*	46	9	7	8	7	62	*
Down syndrome	60†	*	38	10	*	*	*	53	0
Suspected chromosomal disorder	40†	0	24	10	*	0	*	34	0
Hypospadias	30†	0	23	*	*	0	*	29	0
Unknown congenital anomalies	126	16	67	13	11	19	29	93	*

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

**TABLE 1B-32
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2015**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
TOTAL	85,024	6,090†	78,874	60†	7,680†	76,913	280†	150†
Mother's age group								
<15	40†	*	36	0	*	36	0	0
15-17	1,580†	147	1,435	0	153	1,424	*	*
18-19	4,261	324	3,933	*	386	3,857	14	*
20-24	20,525	1,387	19,127	11	1,637	18,789	55	44
25-29	25,191	1,665	23,510	16	2,122	22,944	76	49
30-34	20,925	1,405	19,501	19	1,857	18,955	82	31
35-39	10,112	882	9,223	7	1,169	8,889	37	17
40-44	2,202	242	1,960	0	306	1,879	11	6
45+	180†	32	146	0	37	138	*	*
Unknown	10†	*	*	0	*	*	0	0
Payee for birth								
AHCCCS	44,261	3,403	40,840	18	4,241	39,820	132	68
IHS	1,176	71	1,105	0	99	1,062	10	*
Private insurance	35,192	2,345	32,825	22	2,990	32,070	108	24
Self-pay	4,107	244	3,857	6	312	3,733	30	32
Unknown	290†	30	247	11	35	228	*	24
Mother's education								
8th Grade or Less	2,953	211	2,742	0	296	2,627	24	6
Some High School	13,004	1,084	11,913	7	1,340	11,594	37	33
High School / GED	21,376	1,617	19,748	11	1,968	19,307	60	41
Some College	20,117	1,368	18,743	6	1,759	18,288	45	25
Associate Degree	6,926	457	6,464	*	611	6,294	15	6
Bachelor's Degree	13,454	810	12,634	10	1,010	12,358	70	16
Postgraduate Education	6,605	480	6,118	7	603	5,969	27	6
Unknown	580†	66	509	7	89	474	*	16
Marital status								
Married	45,483	2,894	42,566	23	3,797	41,477	157	52
Unmarried ^a	38,479	3,087	35,367	25	3,712	34,564	120	83
Unknown	1,060†	112	941	9	168	872	*	18
Weight gain								
Inadequate	18,916	2,198	16,704	14	2,427	16,392	46	51
Adequate	26,383	1,651	24,723	9	2,089	24,166	86	42
Excessive	39,217	2,179	37,016	22	3,086	35,945	147	39
Unknown	510†	65	431	12	75	410	*	21
Smoking during pregnancy								
Non-smoker	80,133	5,485	74,601	47	7,084	72,671	264	114
Light smoker (less than 10 cigarettes per day)	2,549	294	2,255	0	280	2,250	6	13
Heavy smoker (10 or more cigarettes per day)	1,847	231	1,615	*	220	1,606	9	12
Unknown	500†	83	403	9	93	386	*	14

**TABLE 1B-32 (continued)
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2015**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
Prenatal care								
No care	1,862	318	1,533	11	466	1,322	29	45
1st trimester	57,696	3,961	53,716	19	5,083	52,488	125	0
2nd trimester	14,977	1,067	13,899	11	1,182	13,692	56	47
3rd trimester	4,681	240	4,439	*	280	4,369	32	0
Unknown	5,808	507	5,287	14	666	5,042	39	61
Prenatal visits								
No visits	1,862	318	1,533	11	466	1,322	29	45
1-4 visits	3,752	573	3,174	*	703	3,011	25	13
5-8 visits	12,912	1,521	11,382	9	1,904	10,962	31	15
9-12 visits	39,648	2,313	37,329	6	2,958	36,602	71	17
13+ visits	25,829	1,228	24,588	13	1,466	24,220	124	19
Unknown	1,020†	140	868	13	180	796	*	44
Newborn intensive care								
Yes	5,861	2,634	3,209	18	3,109	2,714	20	18
No	79,163	3,459	75,665	39	4,568	74,199	261	135
Method of delivery								
Vaginal	59,485	3,046	56,407	32	4,038	55,133	197	117
C-Section	23,422	2,964	20,440	18	3,532	19,788	76	26
Forceps	340†	15	322	0	18	318	*	0
Vacuum	1,773	68	1,705	0	89	1,674	7	*
Unknown	7	0	0	7	0	0	0	7
Obstetric procedures^b								
Total	38,900	2,072	36,818	10	2,495	36,197	170	38
Induction of labor	23,841	1,400	22,436	*	1,372	22,315	132	22
Augmentation of labor	18,607	763	17,839	*	1,240	17,288	62	17
Cervical cerclage	132	41	91	0	57	74	0	*
Tocolysis	182	98	84	0	116	66	0	0
External cephalic version successful	60†	*	55	0	6	51	*	0
External cephalic version failed	79	6	73	0	6	73	0	0
Births with medical risk factors^b								
Total	17,322	2,253	15,060	9	2,959	14,319	21	23
Pre-existing diabetes	765	96	668	*	188	573	0	*
Gestational diabetes	6,418	512	5,906	0	810	5,595	8	*
Pre-existing hypertension	970†	175	793	0	206	757	*	*
Gestational hypertension	5,090†	1,034	4,051	*	1,200	3,879	*	8
Eclampsia	146	57	89	0	63	83	0	0
Previous preterm birth	3,300†	605	2,697	*	926	2,371	*	6
Other previous poor pregnancy outcome	960†	164	798	*	184	775	*	*
Gonorrhea	225	15	210	0	18	207	0	0
Syphilis	70†	*	69	0	11	63	0	0
Chlamydia	2,219	158	2,059	*	170	2,040	7	*
Hepatitis B	117	9	108	0	11	105	0	*
Hepatitis C	170	24	146	0	35	135	0	0

**TABLE 1B-32 (continued)
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2015**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
Births with complications of labor and delivery^b								
Total	20,763	2,322	18,425	16	2,849	17,778	100	36
Premature rupture of the membranes	2,988	601	2,386	*	897	2,078	6	7
Precipitous labor	4,337	369	3,965	*	496	3,800	22	19
Prolonged labor	1,653	85	1,567	*	120	1,514	16	*
Breech presentation	3,030†	884	2,131	10	980	2,040	*	*
Chorioamnionitis	1,781	112	1,668	*	134	1,637	9	*
Meconium staining of the amniotic fluid	5,757	236	5,521	0	249	5,446	50	12
Fetal intolerance	4,502	508	3,992	*	534	3,946	18	*
Maternal transfusion	270†	54	218	0	69	200	*	*
Third or fourth degree perineal laceration	330†	*	326	0	9	316	*	0
Ruptured uterus	38	11	27	0	11	27	0	0
Unplanned Hysterectomy	39	13	26	0	18	21	0	0
Admission to intensive care unit	112	38	74	0	48	63	0	*
Unplanned surgery following delivery	150†	22	131	0	28	123	*	0
Total	3,580	1,290	2,278	12	1,517	2,037	12	14
Abnormal conditions of the newborn^b								
Assisted ventilation immediately after delivery	2,411	953	1,446	12	1,107	1,284	8	12
Assisted ventilation for more than 6 hours	1,160†	636	524	*	738	416	*	6
Surfactant replacement therapy	329	265	63	*	282	47	0	0
Suspected neonatal sepsis	1,669	653	1,015	*	768	889	6	6
Seizure or serious neurologic dysfunction	30†	7	20	0	*	21	0	*
Significant birth injury	125	9	116	0	15	109	0	*
Total	408	134	269	5	115	283	0	10
Congenital anomalies of the newborn^b								
Anencephalus	15	8	7	0	6	9	0	0
Spina bifida / Meningocele	10†	*	7	0	*	8	0	0
Cyanotic congenital heart disease	39	16	23	0	11	28	0	0
Congenital diaphragmatic hernia	10†	*	*	0	*	*	0	0
Omphalocele / Gastroschisis	35	13	21	*	12	22	0	*
Limb reduction defect	10†	*	11	0	*	12	0	0
Cleft lip / palate	72	18	54	0	17	55	0	0
Down syndrome	56	14	42	0	13	43	0	0
Suspected chromosomal disorder	36	17	18	*	12	24	0	0
Hypospadias	30†	6	24	0	*	27	0	0
Unknown congenital anomalies	126	48	74	*	45	72	0	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 The coding of marital status has changed as such unmarried category includes divorced; ^b Total birth where an obstetric procedure; medical risk factor; complication of labor and delivery; abnormal condition of the newborn; or a congenital anomaly of the newborn was identified.

**TABLE 1B-33
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2015**

	TOTAL	Mother's age group										Un- known
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+		
TOTAL	85,024	41	1,582	4,261	20,525	25,191	20,925	10,112	2,202	178	7	
Mother's race/ethnicity												
White non-Hispanic	38,180†	*	339	1,187	7,312	11,929	11,043	5,165	1,079	116	*	
Hispanic or Latino	34,264	28	972	2,409	10,152	9,652	6,872	3,381	762	36	0	
Black or African American	4,360†	*	77	234	1,247	1,234	956	493	113	6	0	
American Indian or Alaska Native	4,984	7	177	385	1,505	1,471	860	464	109	6	0	
Asian or Pacific Islander	3,240†	0	17	46	309	905	1,194	609	139	14	*	
Payee for birth												
AHCCCS	44,261	35	1,293	3,552	14,520	12,613	7,598	3,673	905	69	*	
IHS	1,180†	*	46	90	383	350	182	103	19	*	0	
Private insurance	35,190†	*	168	478	4,676	10,863	11,934	5,824	1,156	87	*	
Self-pay	4,110†	*	71	130	875	1,275	1,142	478	114	20	0	
Unknown	290†	0	*	11	71	90	69	34	8	*	0	
Mother's education												
8th Grade or Less	2,953	29	118	126	477	635	757	608	195	8	0	
Some High School	13,004	12	1,314	1,802	4,143	2,913	1,707	886	214	13	0	
High School / GED	21,380†	0	126	1,749	7,763	6,355	3,577	1,484	303	19	0	
Some College	20,120†	0	13	534	6,044	6,904	4,311	1,881	404	26	0	
Associate Degree	6,930†	0	*	34	1,128	2,459	2,150	959	180	15	0	
Bachelor's Degree	13,450†	0	*	*	832	4,413	5,281	2,431	471	24	0	
Postgraduate Education	6,610†	0	0	0	67	1,379	2,990	1,752	385	32	0	
Unknown	580†	0	9	15	70	132	151	110	50	41	*	
Marital status												
Married	45,480†	0	78	523	6,484	14,455	15,040	7,284	1,527	90	*	
Unmarried ^a	38,479	41	1,502	3,728	13,874	10,428	5,612	2,637	607	48	*	
Unknown	1,060†	0	*	10	167	308	273	191	68	40	*	
Weight gain												
Inadequate	18,916	16	456	1,093	4,786	5,494	4,317	2,188	516	50	0	
Adequate	26,383	11	430	1,196	6,064	7,915	6,779	3,264	675	47	*	
Excessive	39,217	14	683	1,939	9,535	11,644	9,719	4,610	993	75	*	
Unknown	510†	0	13	33	140	138	110	50	18	6	0	
Smoking during pregnancy												
Non-smoker	80,133	41	1,535	4,023	19,030	23,677	19,913	9,646	2,103	160	*	
Light smoker (less than 10 cigarettes per day)	2,550†	0	33	146	831	813	471	208	39	8	0	
Heavy smoker (10 or more cigarettes per day)	1,850†	0	12	80	531	547	430	196	43	6	*	
Unknown	500†	0	*	12	133	154	111	62	17	*	0	
Length of gestation												
<37 weeks	7,680†	*	153	386	1,637	2,122	1,857	1,169	306	37	*	
37-41 weeks	76,913	36	1,424	3,857	18,789	22,944	18,955	8,889	1,879	138	*	
42+ weeks	280†	0	*	14	55	76	82	37	11	*	0	
Unknown	150†	0	*	*	44	49	31	17	6	*	0	
Weight at birth												
<1,000 grams	450†	0	15	32	83	135	100	66	18	0	0	
1,000-1,499	520†	*	13	28	127	124	124	79	22	*	0	
1,500-2,499	5,120†	*	119	264	1,177	1,406	1,181	737	202	28	*	
2,500-3,999	72,240	35	1,378	3,741	17,843	21,488	17,532	8,324	1,766	130	*	
4000+ grams	6,630†	*	57	192	1,284	2,022	1,969	899	194	16	0	
Unknown	60†	0	0	*	11	16	19	7	0	0	0	

**TABLE 1B-33 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2015**

	TOTAL	Mother's age group										Un- known		
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+				
Prenatal care														
No care	1,860†	*	70	157	538	507	325	187	58	16	0			
1st trimester	57,696	14	780	2,337	12,766	17,541	15,310	7,343	1,497	107	*			
2nd trimester	14,977	12	467	1,143	4,510	4,040	2,893	1,483	399	27	*			
3rd trimester	4,681	10	176	410	1,450	1,270	851	403	98	13	0			
Unknown	5,810†	*	89	214	1,261	1,833	1,546	696	150	15	*			
Prenatal visits														
No visits	1,860†	*	70	157	538	507	325	187	58	16	0			
1-4 visits	3,752	7	143	323	1,184	1,014	690	305	74	11	*			
5-8 visits	12,912	11	349	895	3,802	3,663	2,617	1,241	299	33	*			
9-12 visits	39,648	18	709	1,968	9,554	11,798	9,937	4,676	938	48	*			
13+ visits	25,830†	*	294	872	5,248	7,918	7,066	3,568	800	62	0			
Unknown	1,020†	0	17	46	199	291	290	135	33	8	*			
Newborn intensive care														
Yes	5,860†	*	117	309	1,328	1,570	1,451	829	220	30	*			
No	79,163	38	1,465	3,952	19,197	23,621	19,474	9,283	1,982	148	*			
Method of delivery														
Vaginal	59,485	31	1,286	3,354	15,443	17,812	13,952	6,280	1,243	79	*			
C-Section	23,420†	*	222	735	4,508	6,788	6,511	3,635	922	94	*			
Forceps	340†	*	13	21	87	94	75	37	7	*	0			
Vacuum	1,770†	*	61	151	485	496	385	158	30	*	0			
Unknown	10†	0	0	0	*	*	*	*	0	0	0			
Obstetric procedures^b														
Total	38,900	21	816	2,264	10,167	11,476	8,949	4,213	932	62	0			
Induction of labor	23,841	9	450	1,271	5,907	7,063	5,575	2,830	691	45	0			
Augmentation of labor	18,607	13	454	1,203	5,197	5,508	4,140	1,749	319	24	0			
Cervical cerclage	130†	0	*	*	24	31	50	16	6	*	0			
Tocolysis	180†	0	*	15	44	49	42	17	12	0	0			
External cephalic version successful	60†	0	*	*	13	14	14	13	*	*	0			
External cephalic version failed	80†	0	*	*	16	19	23	16	*	0	0			
Births with medical risk factors^b														
Total	17,322	7	307	759	3,593	4,754	4,361	2,743	734	61	3			
Pre-existing diabetes	770†	0	*	17	112	180	211	191	49	*	0			
Gestational diabetes	6,420†	0	33	117	803	1,765	1,953	1,337	378	31	*			
Pre-existing hypertension	970†	0	*	16	103	224	280	255	83	*	0			
Gestational hypertension	5,090†	*	115	260	1,180	1,427	1,188	713	178	21	*			
Eclampsia	150†	0	7	12	31	40	31	18	6	*	0			
Previous preterm birth	3,300†	0	8	45	589	1,008	950	557	138	7	*			
Other previous poor pregnancy outcome	960†	0	*	15	151	299	266	171	55	*	*			
Gonorrhea	230†	*	17	30	100	43	19	14	*	0	0			
Syphilis	70†	0	*	*	18	23	19	*	*	0	0			
Chlamydia	2,220†	*	158	326	998	479	165	77	11	*	0			
Hepatitis B	120†	0	0	6	15	26	34	31	*	*	0			
Hepatitis C	170†	0	0	*	36	47	49	25	*	*	0			

**TABLE 1B-33 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2015**

	TOTAL	Mother's age group										Un- known		
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+				
Births with complications of labor and delivery^b														
Total	20,763	13	445	1,173	5,165	6,062	4,903	2,413	519	67	3			
Premature rupture of the membranes	2,990†	*	53	179	777	875	689	338	61	10	*			
Precipitous labor	4,340†	*	86	177	1,001	1,217	1,118	604	120	10	0			
Prolonged labor	1,650†	*	40	100	476	479	366	147	39	*	0			
Breech presentation	3,030†	0	35	97	570	848	844	456	150	23	*			
Chorioamnionitis	1,780†	*	71	162	582	499	316	124	24	*	0			
Meconium staining of the amniotic fluid	5,760†	*	131	364	1,483	1,798	1,284	568	115	9	0			
Fetal intolerance	4,500†	*	99	285	1,182	1,310	990	525	96	14	0			
Maternal transfusion	270†	0	*	15	67	72	74	32	*	*	0			
Third or fourth degree perineal laceration	330†	0	8	23	77	103	78	36	*	*	0			
Ruptured uterus	40†	0	*	*	*	13	10	6	*	0	0			
Unplanned Hysterectomy	40†	0	*	0	7	10	10	8	*	*	0			
Admission to intensive care unit	110†	0	0	*	24	19	36	21	6	*	0			
Unplanned surgery following delivery	150†	0	*	7	36	41	43	18	*	*	0			
Total	3,580†	2	79	205	873	988	853	448	114	16	2			
Abnormal conditions of the newborn^b														
Assisted ventilation immediately after delivery	2,410†	*	46	121	560	657	614	320	81	11	0			
Assisted ventilation for more than 6 hours	1,160†	*	16	56	273	306	297	163	47	*	*			
Surfactant replacement therapy	330†	*	7	14	58	99	83	47	17	*	0			
Suspected neonatal sepsis	1,670†	*	42	114	450	454	365	185	52	*	0			
Seizure or serious neurologic dysfunction	30†	0	0	*	*	7	12	*	0	0	0			
Significant birth injury	130†	0	*	*	34	34	26	18	*	0	0			
Total	410†	0	4	20	116	97	91	58	20	2	0			
Congenital anomalies of the newborn^b														
Anencephalus	20†	0	0	0	6	*	*	0	*	0	0			
Spina bifida / Meningocele	10†	0	0	*	*	*	*	*	0	0	0			
Cyanotic congenital heart disease	40†	0	*	*	9	12	*	8	*	0	0			
Congenital diaphragmatic hernia	10†	0	0	*	*	*	*	*	0	0	0			
Omphalocele / Gastroschisis	40†	0	0	*	17	*	*	*	*	0	0			
Limb reduction defect	10†	0	0	*	*	6	*	0	0	0	0			
Cleft lip / palate	70†	0	*	6	17	20	14	10	*	*	0			
Down syndrome	60†	0	*	0	*	8	13	23	7	0	0			
Suspected chromosomal disorder	40†	0	0	0	7	7	10	*	6	*	0			
Hypospadias	30†	0	0	*	9	7	6	*	*	0	0			
Unknown congenital anomalies	130†	0	*	7	40	29	33	12	*	0	0			

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

**TABLE 1B-34
BIRTHS WITH CONGENITAL ANOMALIES MENTIONED ON BIRTH CERTIFICATE BY MOTHER'S RACE/ETHNICITY AND
CHILD'S GENDER, ARIZONA, 2015**

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total	408	239	169	194	124	70	137	83	54	19	10	9	50	19	31	8	3	5
Anencephalus	15	8	7	10†	*	*	10†	7	*	0†	0	*	0†	0	*	0	0	0
Spina bifida / Meningocele	10†	7	*	0†	*	*	10†	6	*	0	0	0	0†	0	*	0	0	0
Cyanotic congenital heart disease	39	25	14	19	12	7	10†	8	*	0†	*	*	0†	*	*	0†	*	0
Congenital diaphragmatic hernia	10†	*	*	0†	0	*	0†	*	*	0	0	0	0†	*	0	0	0	0
Omphalocele / Gastroschisis	35	19	16	13	7	6	18	10	8	0†	*	0	0†	0	*	0†	0	*
Limb reduction defect	14	7	7	10†	*	*	10†	*	*	0	0	0	0†	0	*	0	0	0
Cleft lip / palate	72	44	28	44	29	15	23	14	9	0†	0	*	0†	*	*	0†	0	*
Down syndrome	56	29	27	25	13	12	23	12	11	0†	*	*	0†	*	*	0†	0	*
Suspected chromosomal disorder	36	18	18	16	10	6	16	8	8	0†	0	*	0†	0	*	0†	0	*
Hypospadias	30	30	0	25	25	0	10†	*	0	0	0	0	0	0	0	0	0	0
Unknown congenital anomalies	126	68	58	51	32	19	29	16	13	10†	*	*	37	15	22	0†	*	0
Ratio per 100 births^a	0.4	0.4	0.3	0.4	0.5	0.3	0.3	0.3	0.2	0.4	0.4	0.4	0.9	0.8	1.1	0.2	0.2	0.2

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ^a For denominators see Table 5B-8.



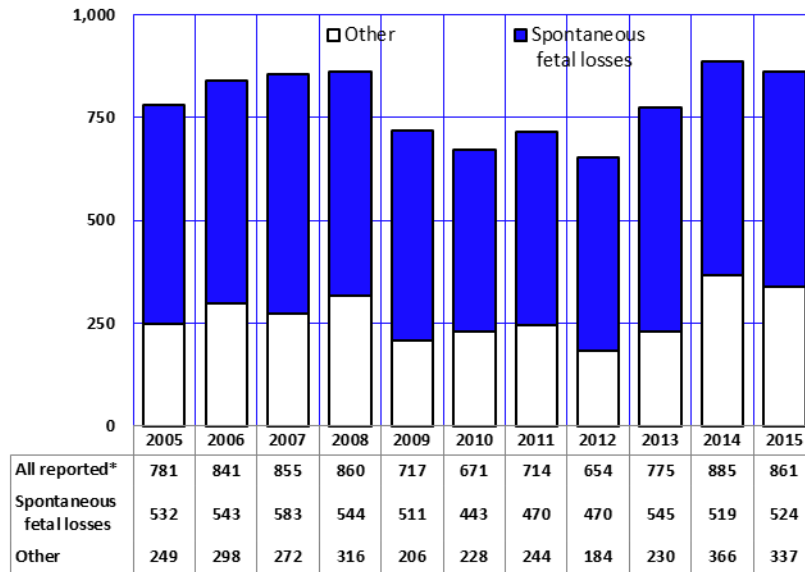
1C.

FETAL, PERINATAL, AND MATERNAL DEATHS

In Arizona, reportable fetal deaths are those after 20 completed weeks of gestation or if the fetus weighs more than 350 grams (*ARS 36-329; Arizona Administrative Code, R9-19-302*). In addition to spontaneous stillbirths, any induced termination of pregnancy at 20 or more weeks of gestation (or, if the gestation period is unknown, when the weight of the product of human conception is more than 350 grams) also requires the filing of a fetal death certificate.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

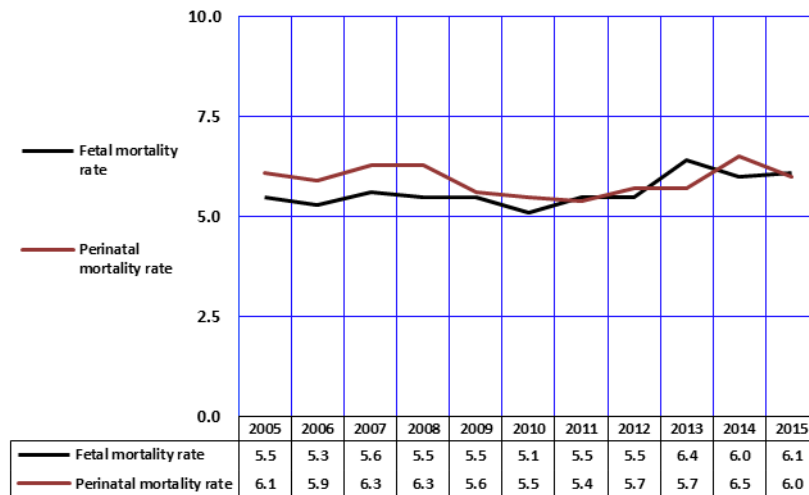
Figure 1C-1
Trends in Fetal Deaths, Arizona, 2005-2015



The number of all reported fetal deaths in Arizona (including late term abortions) in 2015 was 861, a 2.7 percent decrease from 2014 (**Figure 1C-1, Table 1C-3**). In 2015, the annual number of reportable spontaneous fetal losses increased about 1 percent from 519 in 2014 to 524, and remained lower than the recent high of 583 in 2007 (**Figure 1C-1, Table 1C-3**).

Note: All reported includes spontaneous and induced termination of pregnancy at 20 or more weeks of gestation or 350 grams or more and some stillbirths prior to 20 weeks and of any weight.

Figure 1C-2
Fetal^a and Perinatal^b Mortality Rates, Arizona, 2005-2015



The fetal mortality rate rose 1.7 percent from 2014 to 2015 to a rate of 6.1 deaths at 20 or more weeks of gestation per 1,000 live births. In 2015, the number of spontaneous fetal losses has seen an increase at 524 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 2015 was 6.0, a slight decrease from 2014 (**Figure 1C-2, Table 1C-3**).

Early infant deaths accounted for 235 or 46.1 percent of the 510 perinatal deaths in 2015 (**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

Figure 1C-3
Percent of Death from Maternal Causes by Mother's Age Group, Arizona, 2005-2015

The number of women who died from maternal causes decreased slightly from 2014 to 2015. In 2015, 8 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 104 maternal deaths from 2005 to 2015, women age 35 and older had the highest proportional contribution to maternal mortality followed by women age 25 - 34, and women age 24 and younger (**Figure 1C-3**).

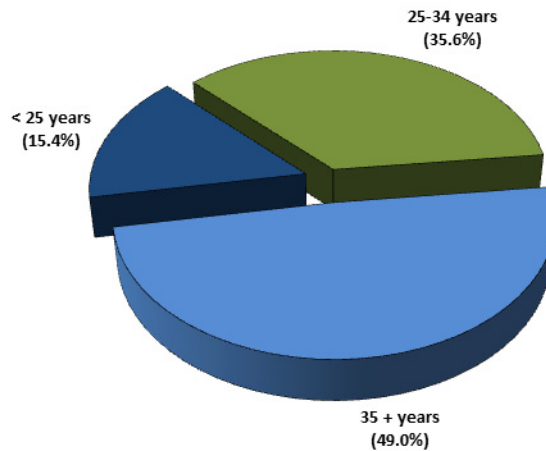
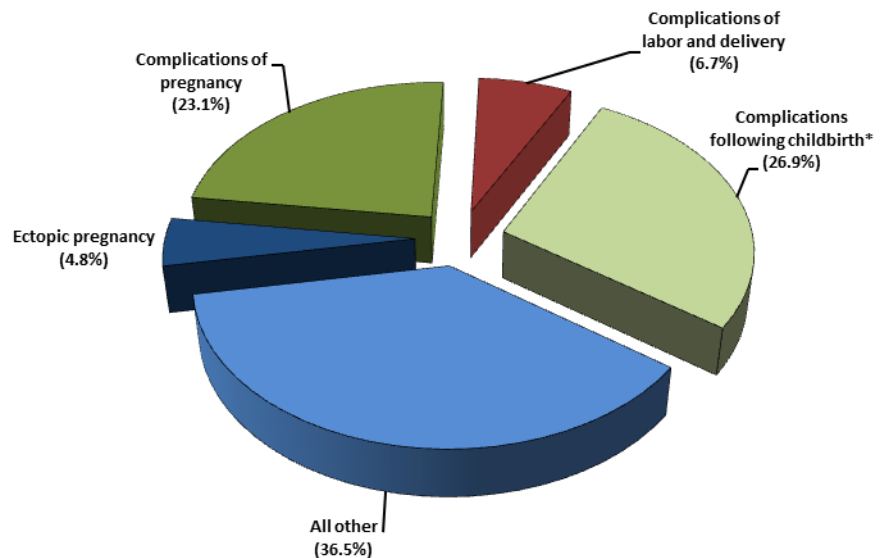


Figure 1C-4
Causes of Maternal Mortality^a, Arizona, 2005-2015

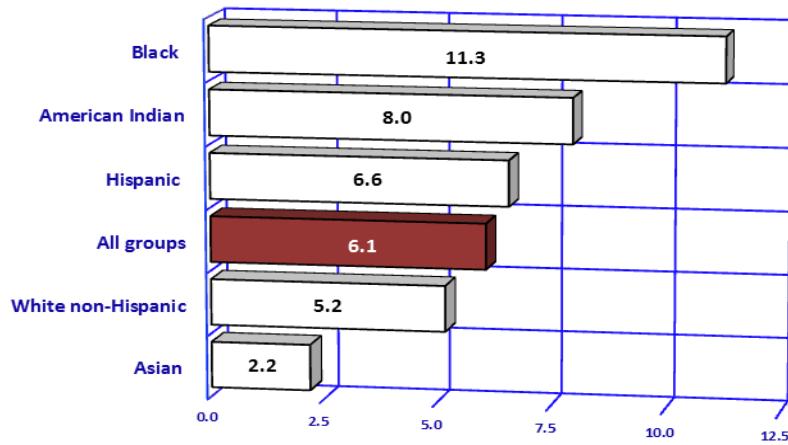
In the eleven-year period from 2005 to 2015, the major causes of maternal deaths in the State have included complications following childbirth (i.e. complications of the puerperium), complications mainly related to pregnancy, complications occurring in the course of labor and delivery, and ectopic pregnancy. All other possible causes of maternal death accounted for 36.5 percent of the maternal deaths from 2005 to 2015 (**Figure 1C-4**, **Table 1C-2**).



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

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

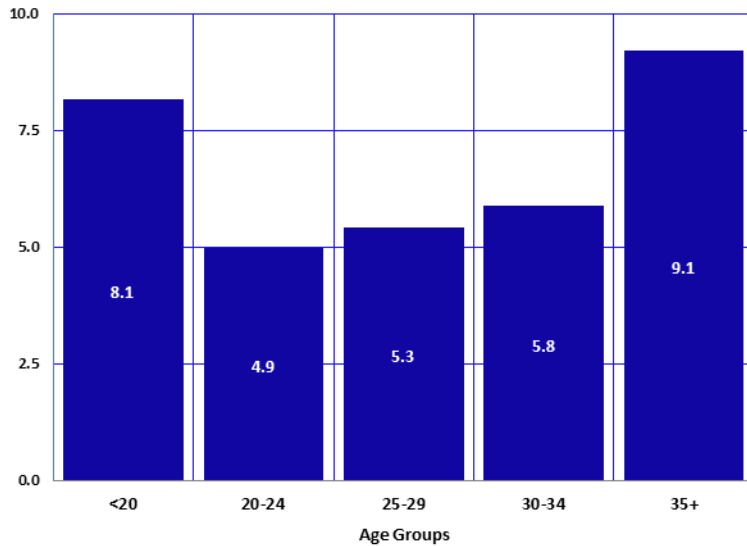
Figure 1C-5
Fetal Mortality Rates by Race/Ethnicity, Arizona, 2015



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 11.3 per 1,000 live births plus fetal deaths, the highest rate among the racial/ethnic groups. The fetal mortality rate was equally high for American Indian women (8.0), and Hispanic or Latino (6.6), while the rates of White non-Hispanic (5.2) and Asian women (2.2) 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, 2015



Fetal mortality rates vary by maternal age (**Figure 1C-6**). In 2015 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 increased by 17.6 percent from 2014.

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, 2005-2015**

Year	Total maternal deaths	Under <15	15-19	20-24	25-29	30-34	35-39	40-44	45+
2005	10†	0	0	*	*	0	*	*	0
2006	10†	0	*	*	*	*	*	*	0
2007	10†	0	*	0	0	*	*	*	0
2008	10†	0	0	*	*	*	*	0	0
2009	10†	0	0	0	*	*	*	0	0
2010	10†	0	*	*	*	*	*	*	*
2011	10†	0	0	*	*	0	*	*	0
2012	20†	0	0	0	*	*	*	*	*
2013	10†	0	0	*	*	*	*	0	*
2014	10†	0	*	0	*	0	*	*	*
2015	10†	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; ^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 O00-O99 according to the Tenth Revision of the *International Classification of Diseases*.

**TABLE 1C-2
MATERNAL DEATHS BY CAUSE AND YEAR, ARIZONA, 2005-2015**

Cause of death (ICD-9/ICD-10 codes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
PREGNANCY WITH ABORTIVE OUTCOME (630-636/O00-O07)	0	*	*	*	*	0	0	0	*	*	0
Ectopic pregnancy (633/O00)	*	*	*	*	*	0	0	0	0	*	0
COMPLICATIONS MAINLY RELATED TO PREGNANCY (640-648/O10-O16)	0	0	*	*	*	*	*	*	*	*	*
COMPLICATIONS OCCURRING IN THE COURSE OF LABOR AND DELIVERY (660-669/O60-O75)	0	*	0	*	*	0	0	0	*	0	*
COMPLICATIONS OF THE PUERPERIUM^a (670-676/O85-O92)	*	*	*	*	*	*	*	7	0	0	*
ALL OTHER	*	*	*	*	0	*	*	8	*	*	*
TOTAL	10†	10†	10†	10†	10†	10†	10†	20†	10†	10†	10†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ^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, 2005-2015**

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
NUMBER OF ALL REPORTED FETAL DEATHS Include spontaneous and induced terminations of pregnancy at 20 or more weeks of gestation (or if gestational age unknown, the deaths of fetuses of at least 350 grams or more) and some stillbirths prior to 20 weeks and of any weight). Excludes fetal deaths occurring in Arizona to out-of-State residents.	781	841	855	860	717	671	714	654	775	885	861
NUMBER OF REPORTABLE FETAL DEATHS Include spontaneous and induced terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight)	597	690	729	724	621	581	619	588	554	653	665
NUMBER OF REPORTABLE SPONTANEOUS FETAL LOSSES Include spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight), exclude induced terminations of pregnancy	532	543	583	544	511	443	470	470	545	519	524
RATE OF REPORTABLE SPONTANEOUS FETAL LOSSES^a	5.5	5.3	5.6	5.5	5.5	5.1	5.5	5.5	6.4	6.0	6.1
NUMBER OF PERINATAL DEATHS Spontaneous fetal losses of 28 or more weeks of gestation	588	599	649	632	524	483	465	487	483	551	510
Infant deaths of less than 7 days	322	340	359	339	281	269	249	266	221	286	235
PERINATAL DEATH RATE^b	6.1	5.9	6.3	6.3	5.6	5.5	5.4	5.7	5.7	6.5	6.0

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, 2005-2015**

Characteristic	Year										
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Total reportable spontaneous fetal losses	532	543	583	544	511	443	470	470	545	519	524
Gender											
Male	262	286	300	295	262	229	218	239	260	293	296
Female	268	252	277	246	244	208	245	222	256	222	225
Unknown	*	*	*	*	*	6	7	9	29	*	*
Mother's race/ethnicity											
White non-Hispanic	208	210	215	198	197	156	192	195	247	205	200
Hispanic or Latino	232	244	267	234	204	198	181	181	205	182	227
Black or African American	33	39	44	44	52	39	27	36	40	48	50
American Indian or Alaska Native	45	38	39	47	46	30	43	43	40	47	40
Asian or Pacific Islander	11	10	17	19	11	17	27	15	13	17	7
Refused/Unknown	*	*	*	*	*	*	0	0	0	20	0
Mother's age group											
<15	0	*	*	*	0	*	0	*	0	0	0
15-17	29	31	38	22	26	18	14	16	18	25	18
18-19	44	49	46	49	40	33	35	37	34	27	30
20-24	141	117	152	132	111	104	117	130	115	120	101
25-29	125	138	144	141	126	114	111	100	159	131	135
30-34	112	98	99	113	105	74	114	98	123	117	122
35-39	58	73	81	63	76	75	56	58	79	67	83
40-44	17	26	15	18	24	20	22	27	13	30	27
45+	*	*	*	*	*	*	*	*	*	0	*
Unknown	*	*	*	*	*	*	0	*	*	*	*
Gestational age^b											
20-27 weeks	263	284	292	250	264	227	255	248	282	250	248
28+ weeks	266	259	290	293	243	214	215	221	262	265	275
Unknown	*	0	*	*	*	*	0	*	*	*	*
Weight in grams											
<350 grams	95	101	96	63	110	105	96	119	108	99	117
350-499	79	106	83	54	69	66	80	68	73	74	75
500-2,499	225	223	264	253	219	173	193	179	229	236	216
2,500-3,999	102	88	108	103	89	74	80	87	103	85	85
4,000+	13	13	19	9	13	20	11	14	6	9	9
Unknown	18	12	13	62	11	*	10	*	26	16	22

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

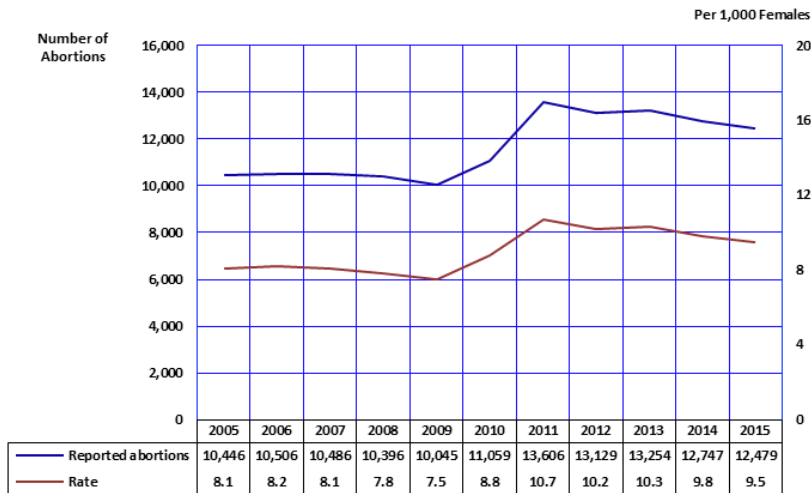
In July 1976, the Arizona Department of Health Services (ADHS) began an Abortion Surveillance Program (*Arizona Administrative Code, R9-19-302D*, as authorized by the *Arizona Revised Statute 36-344*). The program required the reporting of induced terminations of pregnancy performed in hospitals, outpatient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

Based on the information collected on race/ethnicity in the abortion reporting system, the racial/ethnic groups described in this section differ from that of other sections. In 2015, 5.1 percent (n = 639) of abortion records had race and ethnicity identified as unknown, and 1.4 percent (n = 175) of abortion records had two or more racial/ethnic group identified. Due to the proportion of information on race/ethnicity that could not be categorized by the five racial/ethnic groups used through this report, this section reports numbers for records with unknown or multiple race information as separate groups.

1D. ABORTIONS

Figure 1D-1
Number of Reported Abortions and Abortion Rates^a by Year,
Arizona Residents, 2005-2015



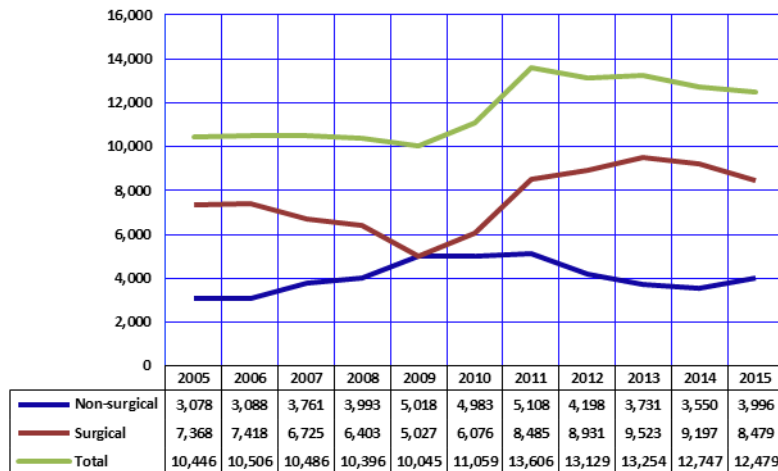
In calendar year 2015, the Arizona Department of Health Services received 12,479 reports of abortions obtained by Arizona residents, 268 less than the 12,747 reported in 2014 (**Figure 1-D1, Table 1D-1**).

There were 12,065 abortions in non-hospital clinics (**Table 1D-1**). Hospitals accounted for 24 abortion procedures, with 390 procedures being performed outside of clinics and hospitals.

Ninety-one percent of all reported abortions occurred at or before 13 weeks of pregnancy. Few reported abortions occurred after 14 or more weeks of gestation: 7.6 percent at 14 weeks or more (percentages based on data in **Table 1D-3**).

Notes: ^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, 2005-2015

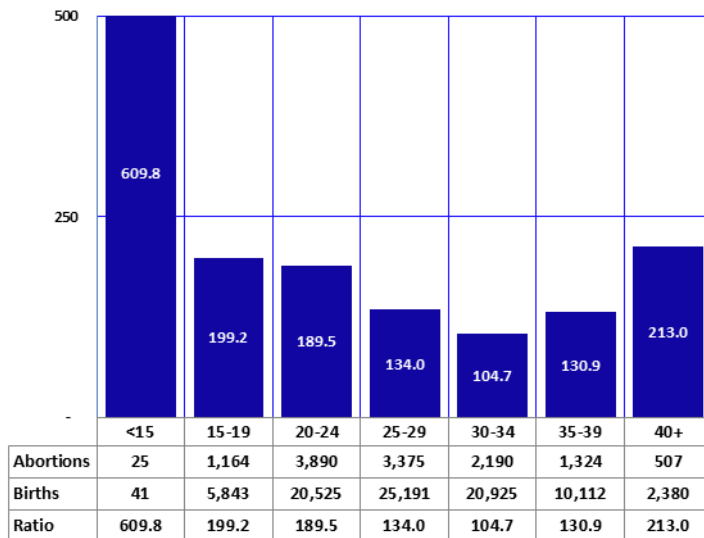


The rate of induced terminations of pregnancy per 1,000 female residents aged 15-44 decreased slightly by 3.0 percent at 9.5 in 2015 (**Table 1D-1**). The relative stability in the abortion ratios and rates from 2011 through 2014, when compared to the variability observed from 2010 to 2011, reflects the new reporting abortion requirements implemented mid-year in 2010.

Trends in the percent of abortions conducted through surgical and non-surgical means from 2005 to 2015 indicate shifting practices in methods used to complete abortions. In 2005, 70.5 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 68 percent of all abortion procedures conducted in 2015 being surgical procedures.

1D. ABORTIONS

Figure 1D-3
Abortion Ratios^a by Age Group, Arizona Residents, 2015

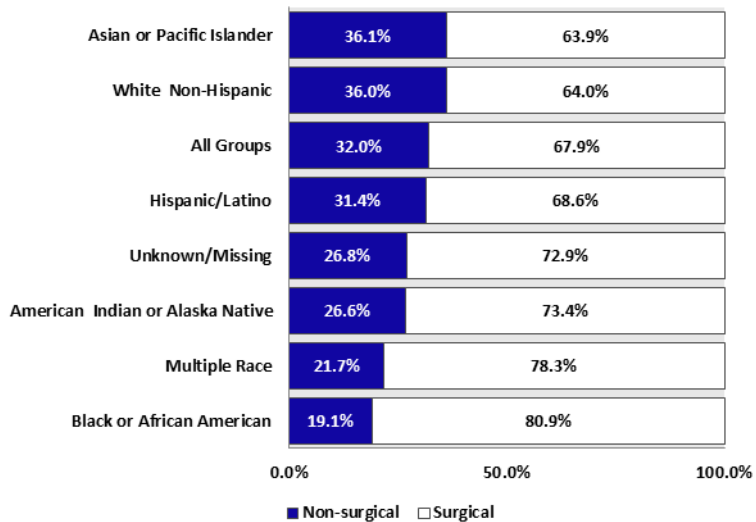


Abortion ratios (the number of abortions per 1,000 live births in each age group) vary by age at reported termination of pregnancy. Ratios tend to be higher at the extremes of the age distribution of the childbearing period, i.e., among women under age 15 and those aged 40 years or older (**Figure 1D-3**).

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, 2015



In 2015 non-surgical (also called “medical”) abortions made up 32.0 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 ratio 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, 2005-2015**

Characteristics	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
ABORTIONS PERFORMED IN ARIZONA	10,723	10,836	10,721	10,660	10,271	11,438	14,401	13,340	13,401	12,900	12,655
RESIDENT ABORTIONS	10,446	10,506	10,486	10,396	10,045	11,059	13,606	13,129	13,254	12,747	12,479
RACE/ETHNICITY											
White non-Hispanic	4,431	5,106	5,202	4,737	4,759	5,241	2,385	1,904	2,515	5,562	5,378
Hispanic or Latino	3,112	3,160	3,719	3,124	3,303	3,422	4,274	3,393	4,189	4,499	4,350
Black or African American	585	581	675	744	736	476	145	116	189	981	1,074
American Indian	353	342	310	297	300	218	48	38	61	291	331
Asian or other Pacific Islander	379	391	454	412	390	254	47	75	110	534	532
Multiple race ^a	NA	NA	NA	NA	NA	NA	4,442	2,985	4,257	361	175
Refused/Unknown	1,586	926	126	1,082	557	1,448	2,265	4,618	1,933	519	639
AGE											
19 years and under	1,892	1,919	1,979	1,813	1,519	1,512	1,785	1,539	1,441	1,249	1,189
20-29 years	5,684	5,770	5,839	5,854	5,753	6,278	7,814	7,602	7,676	7,520	7,265
30 years and over	2,436	2,702	2,652	2,403	2,532	3,113	4,007	3,987	4,136	3,978	4,021
Not stated	434	115	16	326	241	156	NA	*	*	0	*
YEARS OF EDUCATION											
Elementary/secondary (1-12)	1,435	6,226	9,293	6,964	5,244	4,316	4,757	3,615	2,400	1,372	2,561
College (1-4 or 5+)	1,330	1,415	1,193	2,565	3,372	3,199	2,252	2,518	2,522	2,706	3,203
Not stated or unknown	7,681	2,865	0	867	1,429	3,544	6,597	6,996	8,332	8,064	6,715
WEEKS OF GESTATION											
12 weeks or under	8,558	9,470	9,498	9,175	9,238	9,967	12,156	11,677	11,767	11,232	11,062
13 weeks or over	1,068	948	974	916	597	948	1,427	1,432	1,487	1,507	1,411
Not stated or unknown	820	88	14	305	210	144	23	20	0	8	6
FACILITY											
Clinic	10,442	10,560	10,486	10,391	9,362	9,689	14,358	13,072	13,023	12,671	12,065
Hospital	0	0	0	0	0	16	42	54	152	70	24
Other	*	0	0	*	683	^d 1354	0	*	79	6	390

TABLE 1D-1 (continued)
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 2005-2015

Characteristics	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
PREVIOUS LIVE BIRTHS											
None	4,593	4,798	4,517	4,441	4,377	4,867	5,820	5,829	5,810	5,201	5,267
One or more	5,853	5,708	5,969	5,955	5,668	6,178	7,772	7,280	7,387	7,337	7,187
PREVIOUS ABORTIONS											
None	6,453	6,390	6,453	6,338	5,874	6,746	8,382	8,445	8,450	7,872	7,843
One or more	3,993	4,116	4,033	4,058	4,171	4,282	5,183	4,616	4,672	4,616	4,549
PREVIOUS SPONTANEOUS TERMINATIONS OF PREGNANCY											
None	8,916	8,864	8,807	8,756	8,424	9,300	11,257	10,941	10,825	10,241	10,146
One or more	1,530	1,642	1,679	1,640	1,621	1,643	2,301	2,108	2,283	2,213	2,220
NONSURGICAL ABORTIONS											
	3,078	3,088	3,761	3,993	5,018	4,983	5,108	4,198	3,731	3,550	3,996
ABORTION RATIO^b											
	109.0	103.0	102.1	104.8	108.5	127.0	159.7	153.2	156.0	147.1	146.8
ABORTION RATE^c											
	8.1	8.2	8.1	7.8	7.5	8.8	10.7	10.2	10.3	9.8	9.5

Notes: *Cell suppressed due to count less than 6; ^a Multiple race data was not available for previous years (2005-2010); ^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, 2005-2015**

Race and Ethnicity	Year										
	2005	2006	2007	2008	2009	2010	2011 ^e	2012	2013	2014	2015
Percent of Abortions^b											
White non-Hispanic	42.4	48.6	49.6	45.6	47.4	47.4	17.5	14.5	19.0	43.6	43.1
Hispanic or Latino	29.8	30.1	35.5	30.1	32.9	30.9	31.4	25.8	31.6	35.3	34.9
Black or African American	5.6	5.5	6.4	7.2	7.3	4.3	1.1	0.9	1.4	7.7	8.6
American Indian or Alaska Native	3.4	3.3	3.0	2.9	3.0	2.0	0.4	0.3	0.5	2.3	2.7
Asian or Pacific Islander	3.6	3.7	4.3	4.0	3.9	2.3	0.3	0.6	0.8	4.2	4.3
Multiple races	NA	NA	NA	NA	NA	NA	32.6	22.7	32.1	2.8	1.4
Refused/Unknown	15.2	8.8	1.2	10.4	5.5	13.1	16.6	35.2	14.6	4.1	5.1
Abortion Rates^c											
White non-Hispanic	5.7	7.2	7.3	6.5	6.4	8.2	3.7	2.9	3.8	8.6	8.3
Hispanic or Latino	8.6	8.1	9.2	7.6	8.0	8.0	9.9	7.7	9.3	10.6	9.1
Black or African American	13.0	10.3	12.7	13.8	13.3	8.5	2.5	2.0	3.2	12.8	16.3
American Indian or Alaska Native	5.1	4.4	3.8	3.6	3.6	3.2	0.6	0.6	0.9	3.4	5.1
Asian or Pacific Islander	11.3	9.3	10.4	9.3	8.7	5.2	0.9	1.6	2.3	8.5	9.2
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	112	119	123	113	120	135	62	49	66	139	141
Hispanic or Latino	74	70	81	73	86	100	132	102	127	133	127
Black or African American	170	150	162	173	168	110	33	25	40	217	246
American Indian or Alaska Native	56	54	48	47	49	37	8	7	11	57	65
Asian or Pacific Islander	135	125	133	120	115	77	13	21	32	169	164
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, 2015**

Age	Gestational Age ^a					
	≤13 weeks		14 to 20 weeks		≥21 or more weeks	
	Count	Percent	Count	Percent	Count	Percent
<15 yrs	21	84.0	*	**	0	0.0
15-19 yrs	1,016	87.3	130	11.2	18	1.5
20-24 yrs	3,592	92.3	260	6.7	38	1.0
25-29 yrs	3,104	92.0	234	6.9	37	1.1
30-34 yrs	1,987	90.7	164	7.5	38	1.7
35-39 yrs	1,201	90.7	103	7.8	19	1.4
≥40 yrs	453	89.3	50	9.9	*	**
Totals	11,374	91.1	950[†]	7.6	150[†]	1.2

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 12,479 due to 6 unknown gestational age.

**TABLE 1D-4
ABORTIONS BY WEEK OF GESTATION AND RACE/ETHNICITY, ARIZONA, 2015**

Week of gestation	Total	Race/ethnicity							Refused / Unknown race
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Multiple race		
Total	12,479	5,378	4,350	1,074	330†	530†	180†	640†	
6 weeks or less	3,628	1,708	1,205	229	51	198	44	193	
7	2,645	1,148	912	215	67	119	33	151	
8	1,938	839	684	155	65	78	20	97	
9	1,101	436	418	110	22	30	19	66	
10	733	253	285	93	25	23	16	38	
11	676	280	236	78	22	20	11	29	
12	340†	138	122	36	10	13	*	18	
13	312	138	105	29	13	8	6	13	
14	233	98	78	27	10	8	6	6	
15	230†	83	78	35	8	8	*	15	
16	130†	42	53	16	7	*	*	*	
17	110†	40	41	12	10	*	*	*	
18	100†	47	28	11	*	*	*	*	
19	80†	36	26	7	*	*	*	*	
20	70†	27	21	8	6	*	*	0	
21+	150†	64	56	13	9	7	*	*	
Unknown	10†	*	*	0	0	*	0	*	

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