

CHAPTER 1

REPRODUCTIVE AND PERINATAL HEALTH, ARIZONA, 2009-2019

- 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.

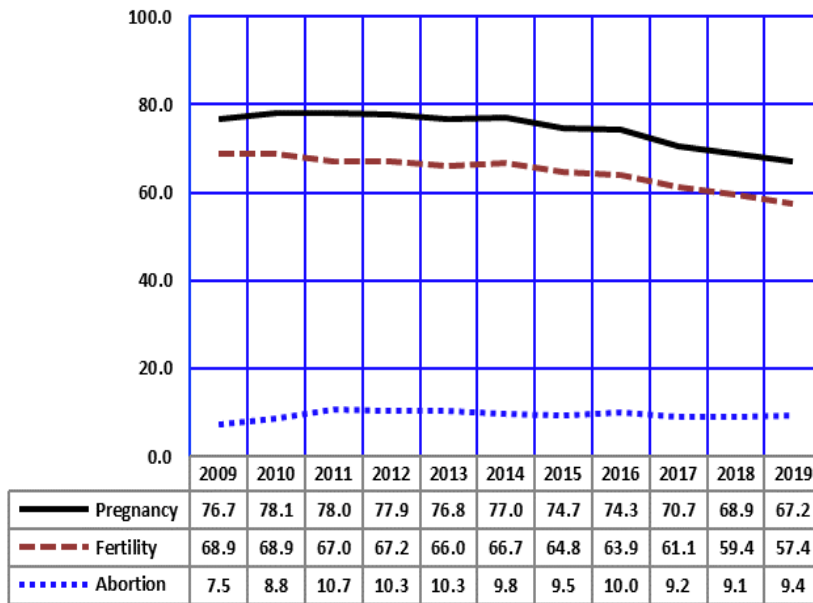
PREGNANCIES BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND AGE GROUP

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 92,675 pregnancies in 2019 compared to 93,373 pregnancies in Arizona in 2018, 98,060 in 2016, and 103,172 in 2009. The number of resident live births decreased by 1.7 percent, from 80,539 in 2018 to 79,183 (**Table 1A-1**). The number of reported abortions increased by 5.2 percent, from 12,362 in 2018 to 13,003 in 2019. The number of reportable spontaneous fetal losses increased 3.6 percent, from 472 in 2018 to 489 in 2019.

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, 2009-2019



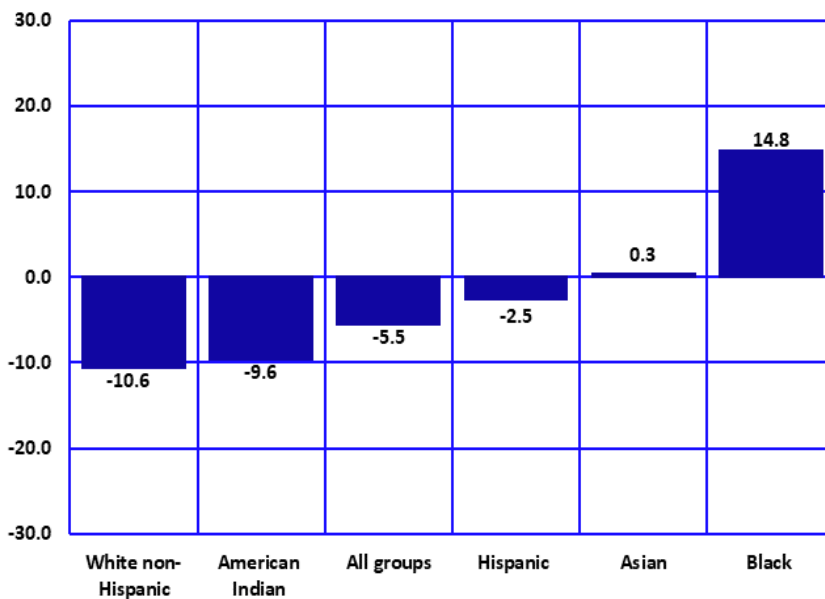
A rate is a measure of the frequency of some event (such as pregnancy, or live birth) in relation to a unit of population during a specified time period such as a year; events in the numerator of the year occur to individuals in the denominator. The pregnancy rate decreased from 68.9 pregnancies per 1,000 females of childbearing age in 2018 to 67.2 pregnancies per 1,000 females of childbearing age in 2019 (**Figure 1A-1, Table 1A-1**).

The fertility rate (the number of births per 1,000 women of childbearing age) also decreased from 59.4/1,000 in 2018 to 57.4 in 2019. In 2019, the fertility rate was 16.7 percent lower than the high rate recorded in 2009.

The abortion rate (the number of abortions per 1,000 women of childbearing age) increased 3.3 percent, from 9.1 per 1,000 women of childbearing age in 2018 to 9.4 in 2019.

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

Figure 1A-2
Percent Change from 2015 to 2019 in the Number of Pregnancies by Woman's Race/Ethnicity, Arizona



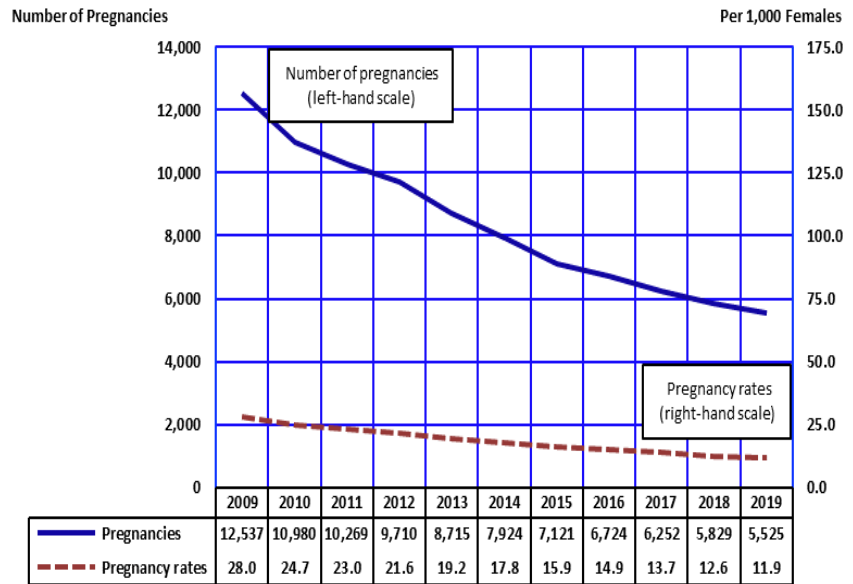
Overall, pregnancies in Arizona decreased 5.5 percent from 2015 to 2019. The changes in number of pregnancies varied by race/ethnicity. Between 2015 and 2019, while White non-Hispanic females (10.6 percent) American Indian (9.6 percent) and Hispanic females (2.5 percent) experienced a decrease in number of pregnancies, Black (14.8 percent), and Asian females (0.3 percent), witnessed an increase in their pregnancy counts (**Figure 1A-2, Table 1A-1**).

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

Figure 1A-3
Trends in the Number of Pregnancies and Pregnancy Rates^a among Females 19 or Younger, Arizona, 2009-2019

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

The number of teen pregnancies decreased by 55.9 percent from 12,537 in 2009 to 5,525 in 2019 (Figure 1A-3). The teen pregnancy rate declined even more, by 57.5 percent, from 28.0 pregnancies per 1,000 females 10-19 years in 2009 to 11.9 per 1,000 females in 2019. The number of teenage pregnancies and the teen pregnancy rate of 2019 were the lowest recorded since at least 1980.

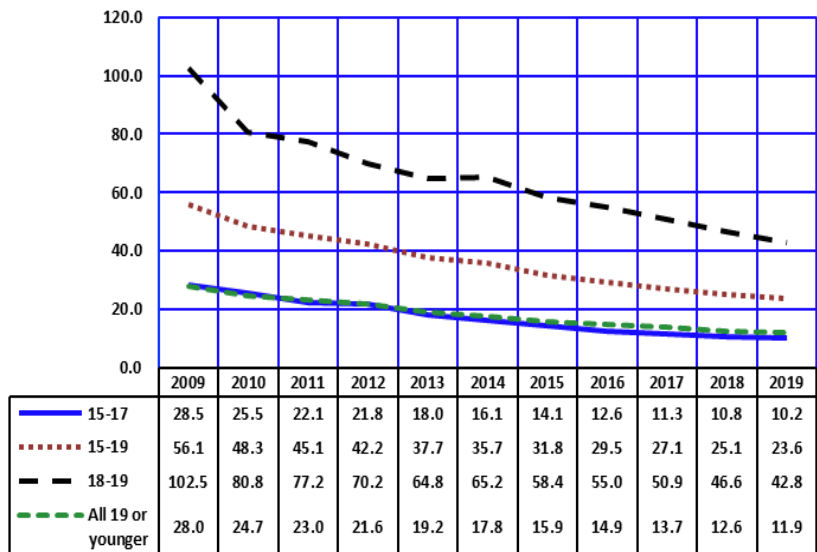


Note: ^a Pregnancy rate is the number of pregnancies per 1,000 females in specified age group.

Figure 1A-4
Pregnancy Rates^a by Age Group and Year among Females 19 or Younger, Arizona, 2009-2019

The pregnancy rate for Arizona teenagers 15-19 years old in 2019 was 23.6 pregnancies per 1,000 females (Figure 1A-4, Table 5A-2), 5.9 percent lower than in 2018 and 58.0 percent lower than in 2009. The pregnancy rate for younger teenagers 15-17 years old declined by 64.2 percent (Table 1A-3) from 28.5/1,000 in 2009 to 10.2 /1,000 in 2019. The pregnancy rate for older teenagers 18-19 years old declined by 58.2 percent from 102.5/1,000 in 2009 to 42.8 /1,000 in 2019 (Table 1A-4).

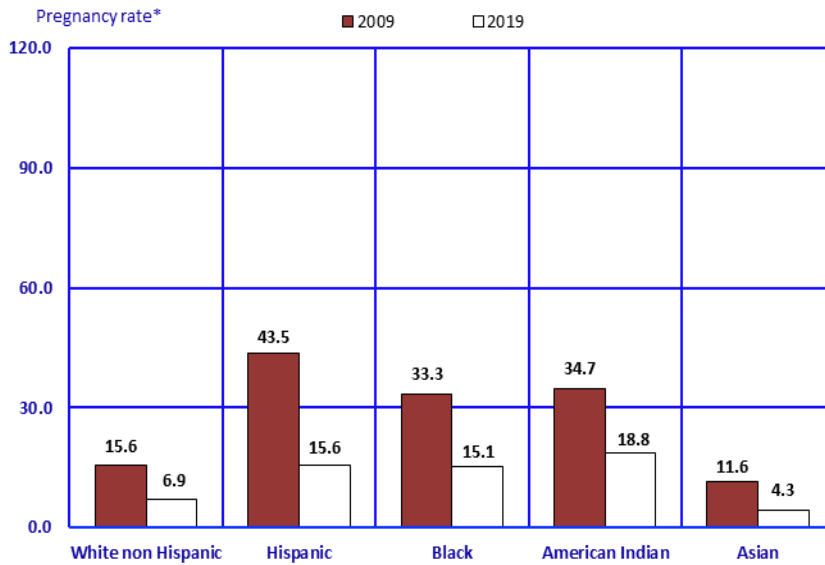
County-level information about teen pregnancies and pregnancy rates is provided in Table 5A-2, Table 5A-3, and Table 5A-5. Pregnancy statistics for Arizona are not available on a sub-county level.



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, 2009 and 2019



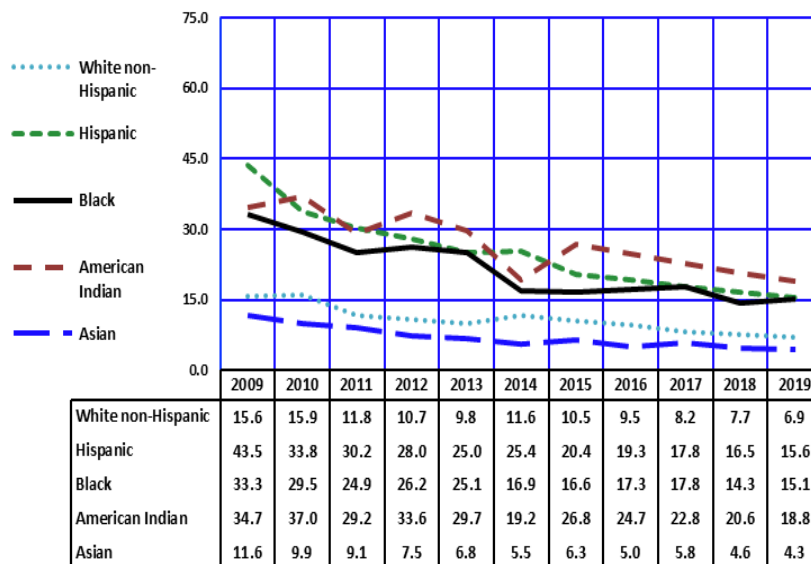
Note: ^a All rates per 1,000 females in specified age group.

Teen pregnancy rates differ by race/ethnicity.

Between 2009 and 2019, 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 64.1 percent drop from 2009 to 2019. The Asian teenage pregnancy rate decreased greatly also, by 62.9 percent from 11.6 in 2009 to 4.3 in 2019.

The changes in annual teen pregnancy rates from 2009 to 2019 are shown in detail below.

Figure 1A-6
Pregnancy Rates^a by Race/Ethnicity and Year among Females
19 or Younger, Arizona, 2009-2019



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

The teen pregnancy rates for all racial/ethnic groups were lower in 2019 than in 2009 (**Figure 1A-6**). Compared to 2009, the teen pregnancy rate declined substantially, by more than half for all racial/ethnic groups except among American Indians where it decreased by 45.8 percent.

From 2018 to 2019, teenage pregnancy rates decreased for all race/ethnic groups except for Black females. The decline was greater among White non-Hispanic females (10.4 percent) and American Indians (8.7 percent) than Asian females (6.5 percent) and Hispanics (5.5 percent) and

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

Figure 1A-7
Proportional Contribution by Race/Ethnicity to Pregnancies and Live Births among Females 19 or Younger, Arizona, 2019

In 2019, Hispanic females accounted for approximately 43.9 percent of all females 10-19 years old in Arizona. As in the past, they accounted for a large percentage of teen pregnancies (57.7 percent) and live births (60.0 percent; **Figure 1A-7**). In contrast, White non-Hispanic females made up 41.5 percent of all females 10-19 years old in Arizona, but had a lower proportional contribution to teen pregnancies (24.3 percent) and live births (23.1 percent). Note: percentages are based on the number of pregnancies and births in **Table 1A-5**.

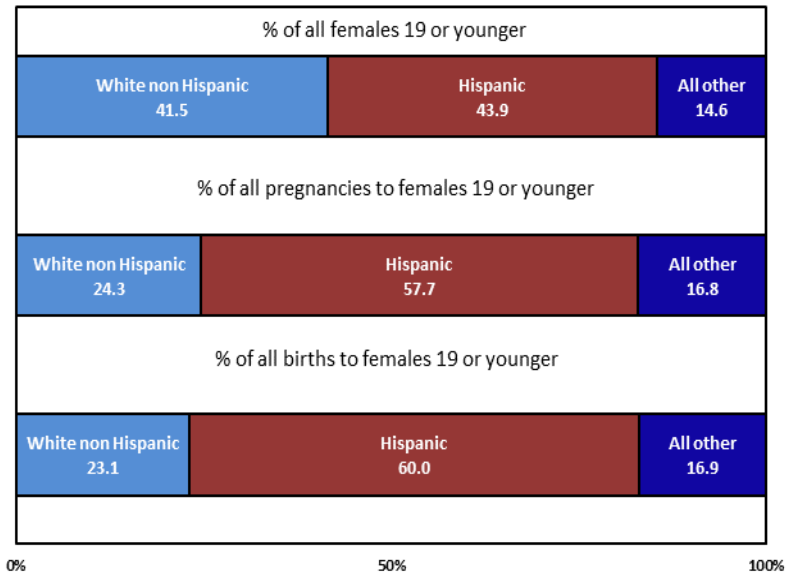
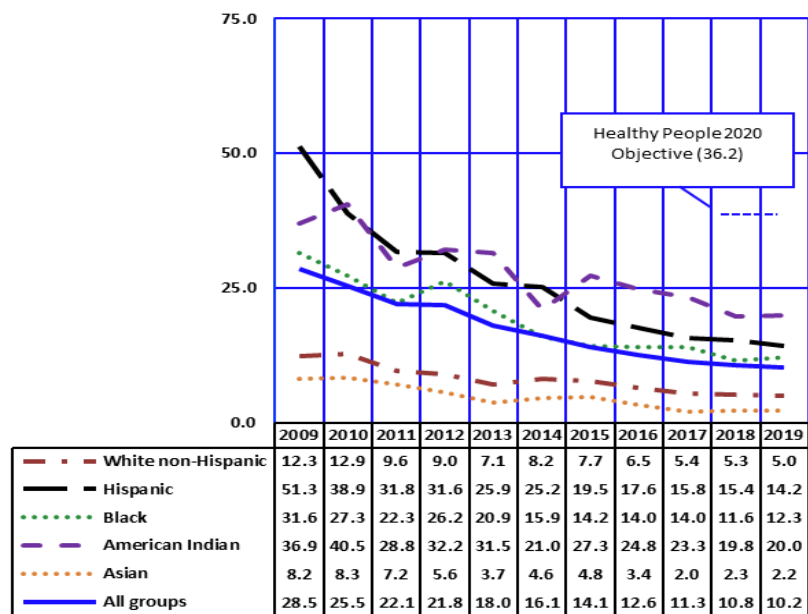


Figure 1A-8
Pregnancy Rates^a by Race/Ethnicity and Year among Females 15-17 Years: 2009-2019 and the "Healthy Arizona 2020" Objective

In 2019, the pregnancy rate of 10.2 pregnancies per 1,000 adolescent females 15-17 years old in Arizona was 71.8 percent lower than the **Healthy People 2020** objective of 36.2/1,000 (**Figure 1A-8, Table 1A-3**). The 2019 pregnancy rate among Asians age 15-17 was 93.9 percent lower than the objective and among White non-Hispanics 86.2 percent lower than the 2020 objective. While lower than the 2020 objective, the 2019 pregnancy rates of American Indians, Hispanics, and Blacks were substantially higher than their White non-Hispanic and Asian counterparts.



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

**TABLE 1A-1
NUMBER OF PREGNANCIES^a BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR WITH RATES^b, ARIZONA, 2009-2019**

Race/ethnicity Pregnancy outcome	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2019 Rates
WHITE^c NON-HISPANIC, total:	44,737	44,174	40,871	40,769	40,982	45,864	43,758	43,287	40,654	39,921	39,103	60.6
Births	39,781	38,777	38,294	38,670	38,220	40,097	38,180	37,762	35,685	34,909	34,118	52.8
Abortions	4,759	5,241	2,385	1,904	2,515	5,562	5,378	5,321	4,762	4,807	4,798	7.4
Fetal deaths	197	156	192	195	247	205	200	204	207	205	187	0.3
HISPANIC OR LATINO, total:	41,869	37,953	36,853	36,720	37,469	38,396	38,841	38,892	38,001	37,848	37,864	72.4
Births	38,362	34,333	32,398	33,146	33,075	33,715	34,264	33,874	33,191	32,995	32,575	62.3
Abortions	3,303	3,422	4,274	3,393	4,189	4,499	4,350	4,823	4,639	4,679	5,093	9.7
Fetal deaths	204	198	181	181	205	182	227	195	171	174	196	0.4
BLACK OR AFRICAN AMERICAN,^d total:	5,166	4,843	4,538	4,867	4,955	5,551	5,485	5,688	5,838	5,926	6,295	82.6
Births	4,378	4,328	4,366	4,715	4,726	4,522	4,361	4,388	4,595	4,655	4,865	63.9
Abortions	736	476	145	116	189	981	1,074	1,253	1,196	1,229	1,372	18.0
Fetal deaths	52	39	27	36	40	48	50	47	47	42	58	0.8
AMERICAN INDIAN OR ALASKA NATIVE,^e total:	6,516	6,063	5,921	5,650	5,577	5,483	5,355	5,406	5,254	5,060	4,843	72.4
Births	6,170	5,815	5,830	5,569	5,476	5,145	4,984	5,030	4,866	4,709	4,462	66.7
Abortions	300	218	48	38	61	291	331	340	348	315	344	5.1
Fetal deaths	46	30	43	43	40	47	40	36	40	36	37	0.6
ASIAN OR PACIFIC ISLANDER,^f total:	3,797	3,564	3,579	3,715	3,589	3,720	3,774	3,960 [†]	3,941	3,838	3,786	56.1
Births	3,396	3,293	3,505	3,625	3,466	3,169	3,235	3,350	3,327	3,271	3,163	46.9
Abortions	390	254	47	75	110	534	532	608	598	552	612	9.1
Fetal deaths	11	17	27	15	13	17	7	*	16	15	11	0.2
ALL RACIAL/ETHNIC GROUPS^d, total:	103,172	98,548	99,266	99,324	98,762	99,914	98,027	98,060	94,481	93,373	92,675	67.2
Births	92,616	87,053	85,190	85,725	84,963	86,648	85,024	84,404	81,664	80,539	79,183	57.4
Abortions	10,045	11,059	13,606	13,129	13,254	12,747	12,479	13,170	12,336	12,362	13,003	9.4
Fetal deaths	511	443	470	470	545	519	524	486	481	472	489	0.4
Pregnancy rate, total:	76.7	78.1	78.0	77.9	76.8	77.0	74.7	74.3	70.7	68.9	67.2	
Fertility rate^g	68.9	68.9	67.0	67.2	66.0	66.7	64.8	63.9	61.1	59.4	57.4	
Abortion rate	7.5	8.8	10.7	10.3	10.3	9.8	9.5	10.0	9.2	9.1	9.4	

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, 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, 2009-2019**

Race/ethnicity Pregnancy outcome	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2019 Rates
WHITE^c NON-HISPANIC, total:	894	770	600	564	448	496	462	401	327	325	298	1.9
Births	669	553	507	483	373	352	344	291	225	217	218	1.4
Abortions	218	214	90	71	72	140	117	107	100	104	79	0.5
HISPANIC OR LATINO, total:	2,496	2,106	1,731	1,728	1,443	1,292	1,144	1,055	976	953	882	5.4
Births	2,340	1,927	1,528	1,574	1,291	1,138	1,000	909	837	812	733	4.5
Abortions	144	167	196	150	142	141	131	139	136	139	144	0.9
BLACK OR AFRICAN AMERICAN, total:	221	189	170†	174	140	145	106	111	111	94	100	4.7
Births	187	161	162	164	128	107	78	84	76	61	77	3.6
Abortions	31	25	*	9	9	36	27	27	34	31	22	1.0
AMERICAN INDIAN OR ALASKA NATIVE, total:	436	361	310†	260†	260†	217	204	191	180†	147	144	7.5
Births	411	345	307	258	251	205	184	178	171	141	130	6.7
Abortions	22	15	*	*	*	7	17	13	*	6	14	0.7
ASIAN OR PACIFIC ISLANDER, total:	30	30†	30†	20†	20†	25	20†	20†	10†	10†	10†	0.8
Births	20	24	28	18	13	14	17	12	7	10	7	0.5
Abortions	9	*	*	*	*	11	*	*	*	*	*	**
ALL RACIAL/ETHNIC GROUPS^d, total:	4,101	3,513	3,089	2,976	2,476	2,193	1,953	1,792	1,619	1,548	1,452	3.9
Births	3,633	3,015	2,548	2,497	2,056	1,816	1,623	1,474	1,316	1,241	1,165	3.1
Abortions	442	479	527	463	402	352	312	308	296	299	280	0.8
Pregnancy rate, total:	11.2	10.0	8.7	8.4	6.9	6.1	5.4	5.0	4.4	4.2	3.9	
Fertility rate^e	9.9	8.6	7.2	7.1	5.8	5.1	4.5	4.1	3.6	3.4	3.1	
Abortion rate	1.2	1.4	1.5	1.3	1.1	1.0	0.9	0.9	0.8	0.8	0.8	

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

**TABLE 1A-3
NUMBER OF PREGNANCIES^a BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES 15-17 YEARS OLD
WITH RATES^b, ARIZONA, 2009-2019**

Race/ethnicity Pregnancy outcome	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2019 Rates
WHITE^c NON-HISPANIC, total:	863	742	577	549	434	481	451	382	319	310	290	5.0
Births	649	541	494	475	365	344	339	283	224	213	214	3.7
Abortions	207	198	80	65	66	133	111	96	93	93	75	1.3
HISPANIC OR LATINO, total:	2,401	2,021	1,653	1,670	1,390	1,262	1,103	1,015	936	925	852	14.2
Births	2,253	1,859	1,467	1,528	1,244	1,115	972	877	816	795	711	11.9
Abortions	136	151	179	138	136	134	118	131	117	128	136	2.3
BLACK OR AFRICAN AMERICAN, total:	212	178	160 [†]	166	133	138	103	104	105	90	96	12.3
Births	181	151	152	159	122	102	77	81	71	60	73	9.3
Abortions	28	24	*	6	8	34	25	23	33	28	22	2.8
AMERICAN INDIAN OR ALASKA NATIVE, total:	419	345	300 [†]	250 [†]	250 [†]	210 [†]	193	178	170 [†]	140 [†]	136	20.0
Births	394	331	293	251	243	196	177	167	163	134	124	18.3
Abortions	22	13	*	*	*	*	13	11	*	*	12	1.8
ASIAN OR PACIFIC ISLANDER, total:	30 [†]	30 [†]	26	20 [†]	10 [†]	23	20 [†]	20 [†]	10 [†]	10 [†]	10 [†]	2.2
Births	18	23	26	17	11	13	17	12	6	10	7	1.4
Abortions	*	*	0	*	*	10	*	*	*	*	*	**
ALL RACIAL/ETHNIC GROUPS^d, total:	3,945	3,363	2,939	2,860	2,385	2,125	1,887	1,707	1,554	1,491	1,401	10.2
Births	3,501	2,910	2,447	2,430	1,985	1,770	1,582	1,420	1,280	1,212	1,129	8.2
Abortions	418	435	478	414	382	330	287	277	267	271	265	1.9
Pregnancy rate, total:	28.5	25.5	22.1	21.8	18.0	16.1	14.1	12.6	11.3	10.8	10.2	
Fertility rate^e	25.3	22.1	18.4	18.5	15.0	13.4	11.8	10.5	9.3	8.8	8.2	
Abortion rate	3.0	3.3	3.6	3.1	2.9	2.5	2.1	2.0	1.9	2.0	1.9	

Notes: * Cell suppressed due to non-zero count less than 6; ** Cell suppressed due to rate based on non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ^a Fetal deaths are included in the total counts of pregnancies; ^b All rates per 1,000 females 15-17 years old; ^c Not of Hispanic origin; ^d Includes other and unspecified ethnicity; ^e Number of births per 1,000 females 15-17 years old.

**TABLE 1A-4
NUMBER OF PREGNANCIES^a BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES 18-19 YEARS OLD
WITH RATES^b, ARIZONA, 2009-2019**

Race/ethnicity Pregnancy outcome	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2019 Rates
WHITE^c NON-HISPANIC, total:	2,560	2,316	1,792	1,675	1,602	1,759	1,562	1,433	1,248	1,170	1,043	25.7
Births	2,046	1,833	1,582	1,494	1,408	1,405	1,187	1,056	939	872	781	19.3
Abortions	502	480	199	167	185	348	371	369	300	292	256	6.3
HISPANIC OR LATINO, total:	4,400	3,812	3,566	3,357	3,175	3,078	2,764	2,668	2,537	2,377	2,308	56.7
Births	4,001	3,421	3,103	3,053	2,789	2,675	2,409	2,227	2,137	1,982	1,861	45.7
Abortions	381	365	442	291	367	390	336	425	390	389	437	10.7
BLACK OR AFRICAN AMERICAN,^d total:	501	446	413	390 [†]	397	345	294	320	339	278	305	55.8
Births	416	401	399	380	379	287	234	232	253	210	203	37.2
Abortions	79	42	13	*	14	54	58	86	83	65	98	17.9
AMERICAN INDIAN OR ALASKA NATIVE,^e total:	793	664	690 [†]	640 [†]	530 [†]	417	423	388	369	347	309	64.9
Births	759	643	680	632	524	397	385	362	348	322	280	58.8
Abortions	30	21	*	*	*	18	34	25	18	25	24	5.0
ASIAN OR PACIFIC ISLANDER,^f total:	99	88	90 [†]	68	70 [†]	67	72	61	79	62	62	16.8
Births	68	79	83	61	66	43	46	39	48	32	33	8.9
Abortions	31	9	*	7	*	24	25	22	31	30	28	7.6
ALL RACIAL/ETHNIC GROUPS^d, total:	8,436	7,467	7,180	6,734	6,239	5,731	5,168	4,932	4,633	4,281	4,073	42.8
Births	7,319	6,401	5,887	5,620	5,166	4,807	4,261	3,916	3,725	3,418	3,158	33.2
Abortions	1,077	1,033	1,258	1,077	1,039	897	877	989	883	847	889	9.3
Pregnancy rate, total:	102.5	80.8	77.2	70.2	64.8	65.2	58.4	55.0	50.9	46.6	42.8	
Fertility rate^g	89.0	69.2	63.3	58.6	53.6	54.7	48.2	43.7	41.0	37.2	33.2	
Abortion rate	13.1	11.2	13.5	11.2	10.8	10.2	9.9	11.0	9.7	9.2	9.3	

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, 2009-2019**

Race/ethnicity Pregnancy outcome	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2019 Rates
WHITE^c NON-HISPANIC, total:	3,454	3,086	2,392	2,239	2,050	2,255	2,024	1,834	1,575	1,495	1,341	6.9
Births	2,715	2,386	2,089	1,977	1,781	1,757	1,531	1,347	1,164	1,089	999	5.2
Abortions	720	694	289	238	257	488	488	476	400	396	335	1.7
HISPANIC OR LATINO, total:	6,896	5,918	5,297	5,085	4,618	4,370	3,908	3,723	3,513	3,330	3,190	15.6
Births	6,341	5,348	4,631	4,627	4,080	3,813	3,409	3,136	2,974	2,794	2,594	12.7
Abortions	525	532	638	441	509	531	467	564	526	528	581	2.8
BLACK OR AFRICAN AMERICAN, total:	722	635	580	562	537	490	400	431	450	372	405	15.1
Births	603	562	561	544	507	394	312	316	329	271	280	10.4
Abortions	110	67	17	14	23	90	85	113	117	96	120	4.5
AMERICAN INDIAN OR ALASKA NATIVE, total:	1,229	1,025	1,000†	900†	787	634	627	579	546	495	453	18.8
Births	1,170	988	987	890	775	602	569	540	519	463	410	17.1
Abortions	52	36	*	*	8	25	51	38	23	31	38	1.6
ASIAN OR PACIFIC ISLANDER, total:	129	117	120†	88	80†	92	92	77	89	74	73	4.3
Births	88	103	111	79	79	57	63	51	55	42	40	2.4
Abortions	40	14	*	9	*	35	28	26	34	32	32	1.9
ALL RACIAL/ETHNIC GROUPS^d, total:	12,537	10,980	10,269	9,710	8,715	7,924	7,121	6,724	6,252	5,829	5,525	11.9
Births	10,952	9,416	8,435	8,117	7,222	6,623	5,884	5,390	5,041	4,659	4,323	9.3
Abortions	1,519	1,512	1,785	1,539	1,441	1,249	1,189	1,297	1,179	1,146	1,169	2.5
Pregnancy rate, total:	28.0	24.7	23.0	21.6	19.2	17.8	15.9	14.9	13.7	12.6	11.9	
Fertility rate^e	24.4	21.2	18.9	18.0	15.9	14.9	13.1	12.0	11.1	10.1	9.3	
Abortion rate	3.4	3.4	4.0	3.4	3.2	2.8	2.7	2.9	2.6	2.5	2.5	

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, 2019
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	92,675	51	1,401	4,073	20,853	28,031	23,397	11,940	2,720	204	10†
Births	79,183	36	1,129	3,158	16,856	24,287	20,834	10,458	2,246	176	*
Abortions ^b	13,003	15	265	889	3,908	3,612	2,430	1,406	450	28	0
Fetal deaths	489	0	7	26	89	132	133	76	24	0	*
White non Hispanic											
Total pregnancies	39,103	10†	290†	1,043	7,188	11,841	11,438	5,905	1,275	112	0†
Births	34,120†	*	214	781	5,784	10,503	10,415	5,242	1,071	101	*
Abortions ^b	4,800†	*	75	256	1,379	1,290	958	629	196	11	0
Fetal deaths	190†	0	*	6	25	48	65	34	8	0	0
Hispanic or Latino											
Total pregnancies	37,864	30	850†	2,308	10,313	11,606	7,874	3,865	957	57	0†
Births	32,575	22	711	1,861	8,579	10,150	6,988	3,411	807	46	0
Abortions ^b	5,093	8	136	437	1,689	1,397	846	432	137	11	0
Fetal deaths	200†	0	*	10	45	59	40	22	13	0	*
Black or African American											
Total pregnancies	6,300†	0†	100†	310†	1,518	1,943	1,468	774	170†	10†	0
Births	4,870†	*	73	203	1,087	1,486	1,211	654	136	11	0
Abortions ^b	1,370†	0	22	98	419	441	244	110	36	*	0
Fetal deaths	60†	0	*	*	12	16	13	10	*	0	0
American Indian or Alaska Native											
Total pregnancies	4,840†	10†	136	310†	1,259	1,457	1,084	489	100†	0†	0
Births	4,460†	6	124	280	1,149	1,358	1,002	452	88	*	0
Abortions ^b	340†	*	12	24	103	93	70	31	9	0	0
Fetal deaths	40†	0	0	*	7	6	12	6	*	0	0
Asian or Pacific Islander											
Total pregnancies	3,786	0	10†	60†	373	930†	1,380†	830†	177	20†	0
Births	3,160†	0	7	33	257	790	1,218	699	144	15	0
Abortions ^b	612	0	*	28	116	138	160	130	33	*	0
Fetal deaths	10†	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; ^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, 2019**

Age	Population	PREGNANCIES BY OUTCOME			TOTAL PREGNANCIES	
		Live births	Abortions	Spontaneous fetal losses	Number	Rate
10	47,210	0	0	0	0	0.0
11	47,362	*	*	0	*	**
12	46,704	*	*	0	*	**
13	46,528	*	*	0	8	0.2
14	46,192	29	9	0	38	0.8
10-14	233,996	36	15	0	51	0.2
15	44,906	116	38	*	155	3.5
16	45,444	322	79	*	404	8.9
17	46,690	691	148	*	842	18.0
15-17	137,040	1,129	265	7	1,401	10.2
18	48,189	1,140	366	10	1,516	31.5
19	46,972	2,018	523	16	2,557	54.4
18-19	95,161	3,158	889	26	4,073	42.8
Total 10-19	466,197	4,320 [†]	1,170 [†]	30 [†]	5,530 [†]	11.9

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

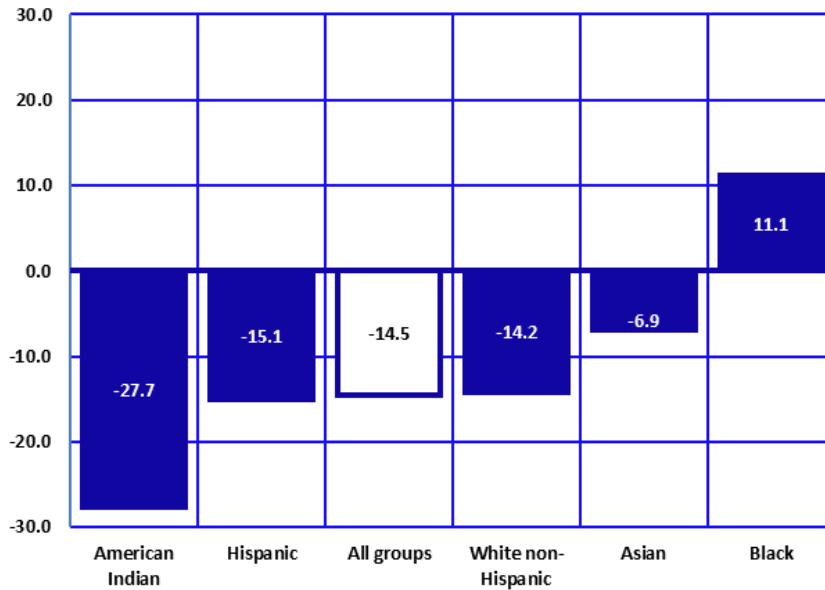
The number of resident births reached its recent peak in 2007 at 102,687 (**Table 1B-2**). In 2008, the number of resident births declined to 99,215; the first annual decline since 1991 (which, like 2008, also was an economic downturn year). Since 2008, the number of births has been declining—with exception of 2014—reaching a low of 79,183 resident births in 2019, the lowest number of births recorded in Arizona since 1999 (80,505). From 2018 to 2019, the number of residents' births decreased by 1.7 percent, representing a reduction of 1,356 births.

There were striking differences in how the number of births changed from 2009 to 2019 by mother's race/ethnicity. Compared to 2009, the number of births for all combined racial/ethnic groups was 14.5 percent lower in 2019. Taken separately, while the number of births rose by 11.1 percent for Black or African American mothers between 2009 and 2019, the remaining racial/ethnic groups witnessed a decline in their birth counts, with American Indian women experiencing most of the decrease (27.7) during the period of time under consideration (**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 415,164 in 2009 to 522,873 in 2019. 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.

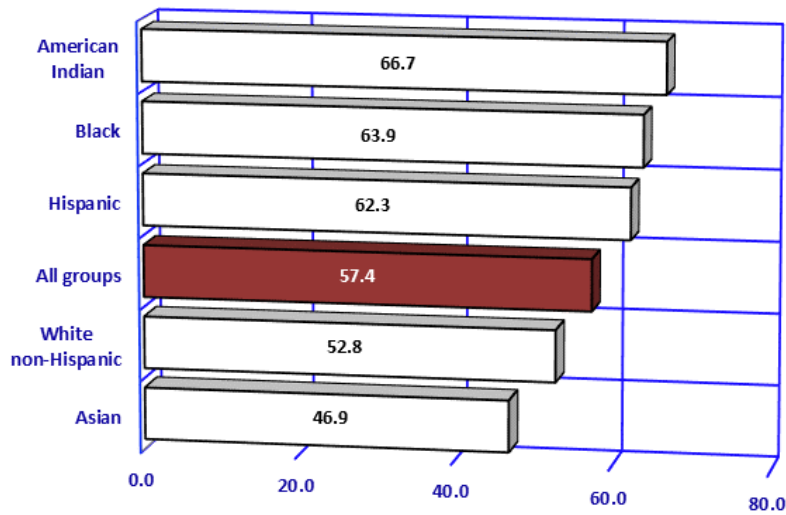
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-1
Percent Change from 2009 to 2019 in the Number of Resident Live Births by
Mother's Race/Ethnicity, Arizona



From 2009 to 2019, the number of resident live births declined by 14.5 percent (**Figure 1B-1**). All racial/ethnic groups experienced a decrease in the number of live births, with the exception of Blacks. The magnitude of the reduction in the number of births was the largest among American Indians (27.7 percent) and Hispanics or Latinos (15.1 percent).

Figure 1B-2
General Fertility Rates^a by Race/Ethnicity among Females of all Ages,
Arizona, 2019



From among 1,379,043 women of childbearing age (15-44 years), 5.7 percent gave birth in 2019. 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 Black females, and Hispanic females. The GFR for Asian females was the lowest of all racial/ethnic groups.

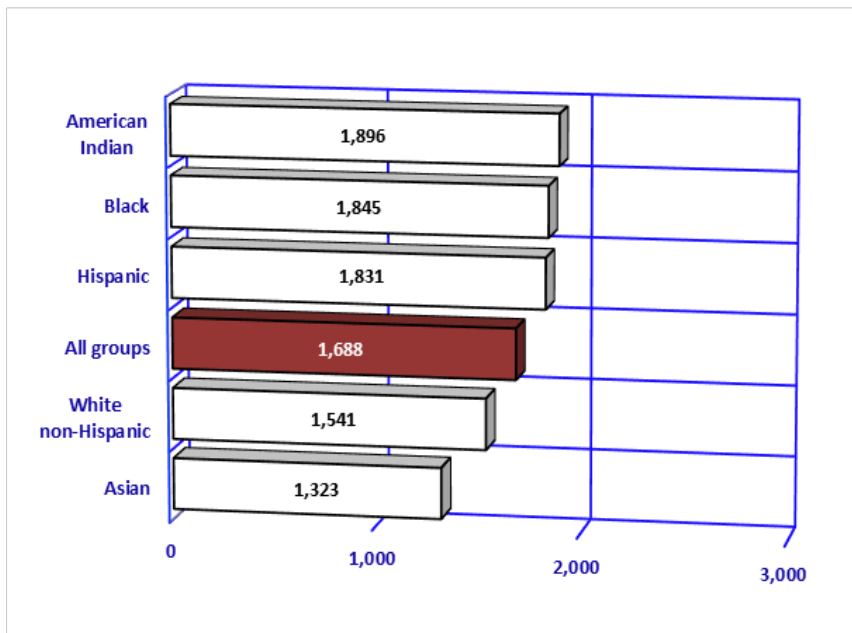
A comparison of fertility rates by county in Arizona is provided in **Table 5A-1**.

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

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

Figure 1B-3
Total Fertility Rates^a by Race/Ethnicity, Arizona, 2019

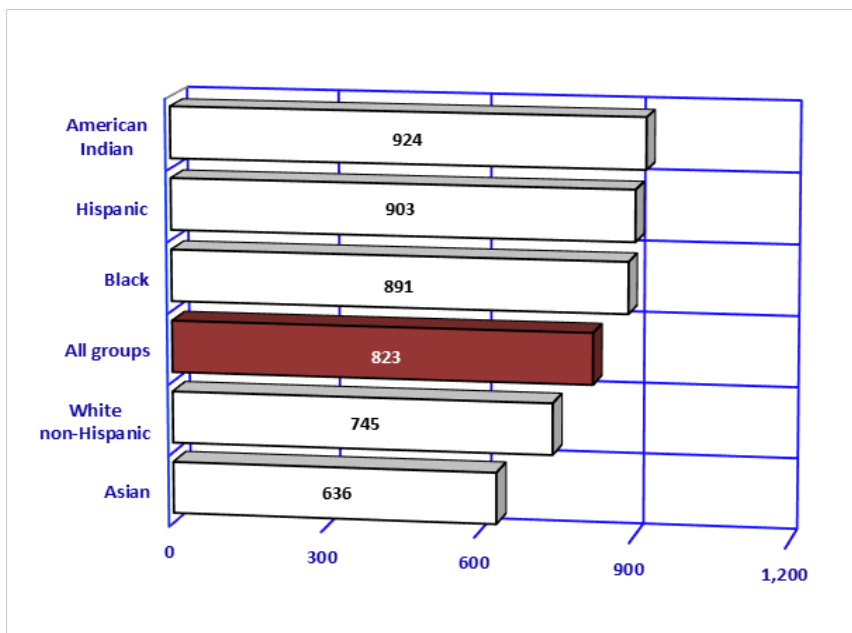
The *total fertility rate* (TFR) indicates the average number of births to a hypothetical cohort of 1,000 women, if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. From 2003 to 2008, Arizona's TFRs always exceeded the rate of "replacement" (2,110 births per 1,000 women. The "replacement" rate is considered the value at which a given generation can exactly replace itself. The TFR was 2,058 births per 1,000 women of childbearing age in 2009 and 2010, decreasing to 1,688 in 2019 (**Table 1B-1**). In 2019, The TFR for American Indian women (1,896)-the highest of all racial/ethnic groups-was 10.1 lower than the generation replacement rate. The rate for Asian women (1,323), -the lowest of all groups- was 37.3 percent lower than the replacement rate.



Notes: ^a The sum of age group-specific birth rates multiplied by five (the number of years in the age group). The rate of 1,688 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 2019, they would have a total of 1,688 children (or 1.7 children each) by the time they reached the end of the reproductive period (taken here as age 50), assuming that all of the women survived to that age.

Figure 1B-4
Gross Reproduction Rates^a by Race/Ethnicity, Arizona, 2019

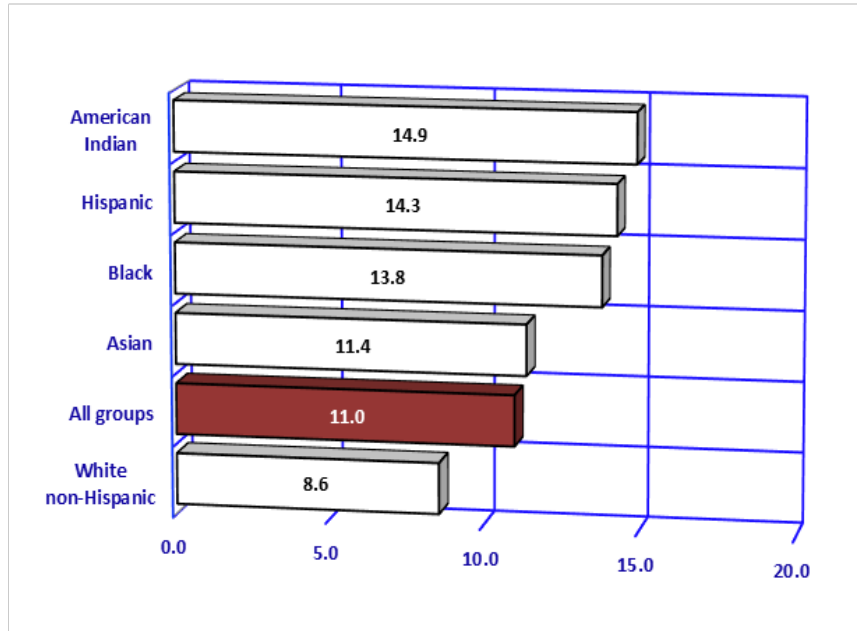
Another measure used to summarize reproduction patterns is the *gross reproduction rate* (GRR). It represents the average number of daughters born to a hypothetical cohort of 1,000 women if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. This 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 2019, the gross reproduction rates in Arizona ranged from 636 for Asian women to 924 for American Indian women (**Figure 1B-4, Table 1B-1**).



Notes: ^a The sum of birth rates by 5-year age groups multiplied by the proportion of births which were female. The gross reproduction rate represents the average number of daughters born to a hypothetical cohort of 1,000 women if they experienced the age-specific birth rates observed in a given year throughout their childbearing years, and if none of the cohort was to die during their childbearing years.

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

Figure 1B-5
Birth Rates^a by Race/Ethnicity, Arizona, 2019



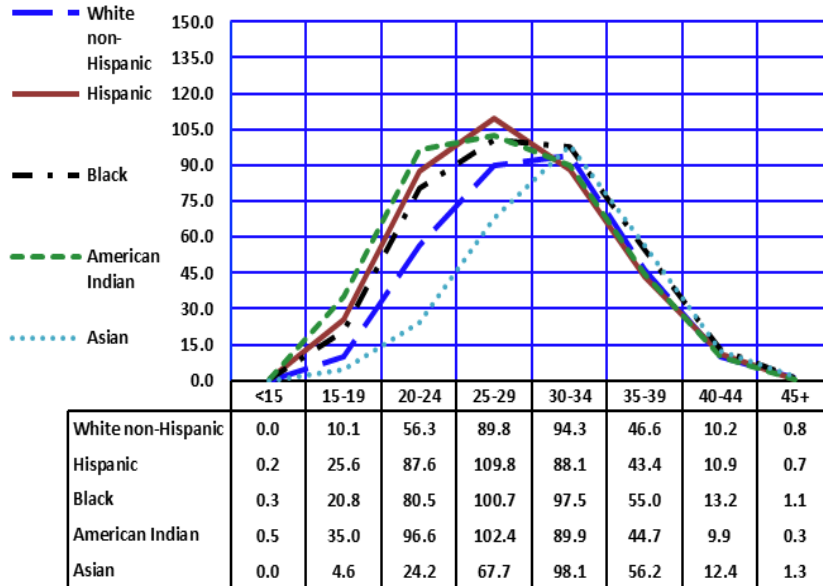
The crude birth rate, often simply called the birth rate, relates the number of births to the total population in a specified group. The birth rate is expressed as the total number of births per 1,000 persons, without regard to the age or sex distribution of the population.

The birth rate for Arizona decreased from 11.7 in 2017 to 11.4 in 2018 and 11.0 in 2019.

In 2019, the crude birth rates by mother's race/ethnicity ranged from 8.6 births per 1,000 White non-Hispanics to 14.9 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, 2019



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 2019, American Indian and Hispanic women had the highest birth rates for women under the age of 25 years. The birth rates for women between the ages of 30-34 and 35-39 were the highest among Asian women. In general, Hispanic, Black, and American Indian women tend to give birth at younger ages than Asian and non-Hispanic White women.

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

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

Figure 1B-7
Percent of Births to Unmarried Mothers by Age Group, Arizona, 2019

Unmarried mothers have accounted for an increasing annual proportion of births throughout the 1980s and 1990s. In 2019, 35,610 infants were born to unmarried mothers compared to 41,856 in 2009. It is important to note that beginning 2015, divorced mothers have been included in the proportion of unmarried mothers; therefore, caution should be exercised in comparing data for this year to those of the previous years.

A decade ago, the proportion of births among unmarried women aged 20-24 years was 62.1 percent, while in 2019, approximately 67.6 percent of mothers 20-24 years old were unmarried (**Figure 1B-7**).

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

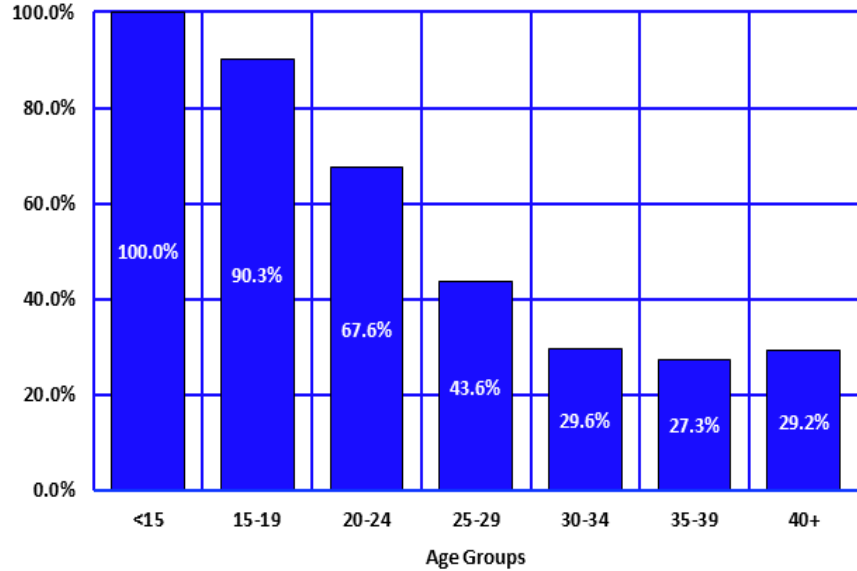
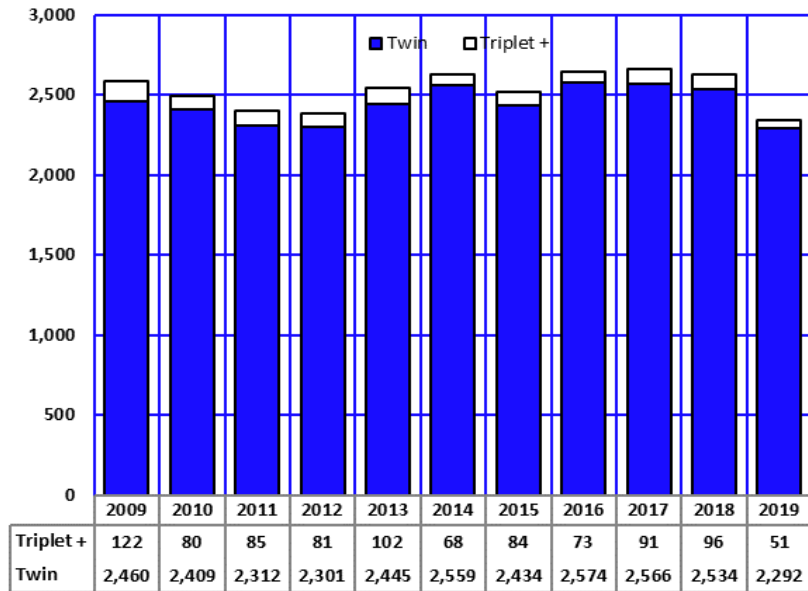


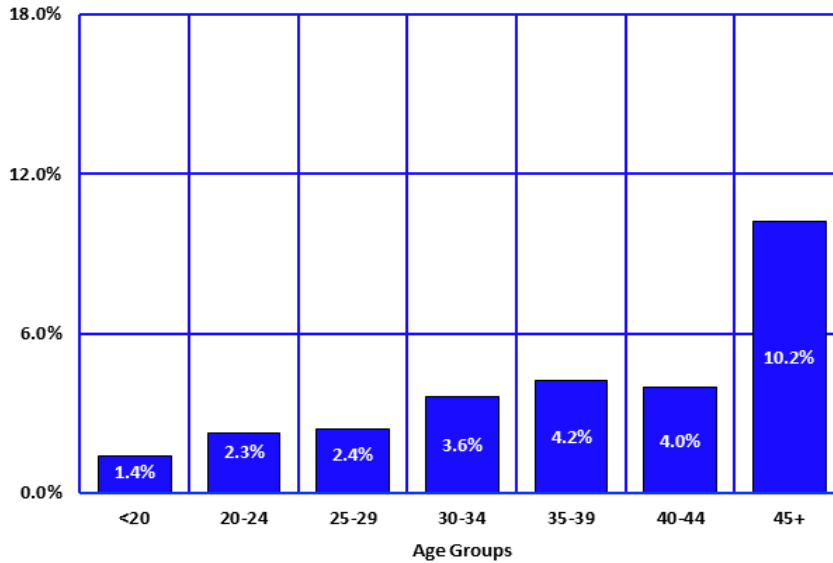
Figure 1B-8
Number of Births in Twin and Triplet+ Deliveries by Year, Arizona, 2009-2019

The number of multiple birth events in Arizona declined from 2,582 in 2009 to 2,343 in 2019 (**Figure 1B-8**). The number of babies born in twin deliveries decreased from 2,460 in 2009 to 2,292 in 2019 (**Figure 1B-8**). The number of triplets and higher order multiple birth events decreased by 58.2 percent from 122 in 2009 to 51 in 2019.



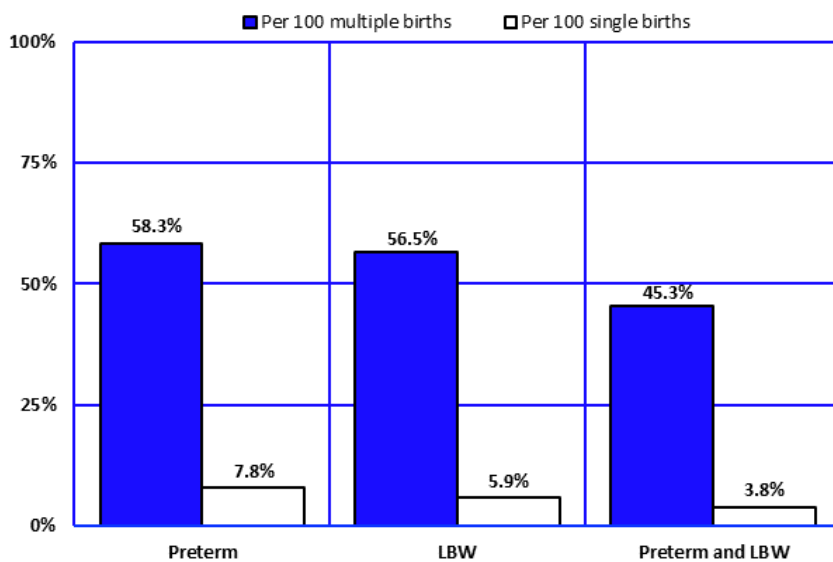
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-9
Multiple Births by Mother's Age Group, Arizona, 2019



In 2019, 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, 10.2 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 15.7 percent in 2018 to 10.2 percent in 2019. Ongoing monitoring of multiple births among older mothers will help better understand the recent variation that has been found in this measure.

Figure 1B-10
Infants Born too Early (Preterm)^a and Infants Born too Small (LBW)^b among Multiple and Single Births, Arizona, 2019



Infants born in multiple deliveries tend to be born at shorter gestation age and with low birth weight than those born in singleton deliveries (**Figure 1B-10**). In 2019, infants born in multiple deliveries were 7.5 times more likely (58.3 vs. 7.8 percent) to be born earlier than expected (at less than 37 completed weeks of gestation) and smaller (at less than 2,500 grams) than singleton births.

Preterm birth is a leading cause of infant morbidity and mortality, accounting for about 60% percent of all infant deaths (only those with matching death records); (**Figure 2C-4** in section 2C). The weight of the newborn also is an important predictor of future morbidity and mortality. In 2019, infants born at very low birth weight (<1,500 grams) accounted for 40.7 percent of all infant deaths (**Figure 2C-3**).

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

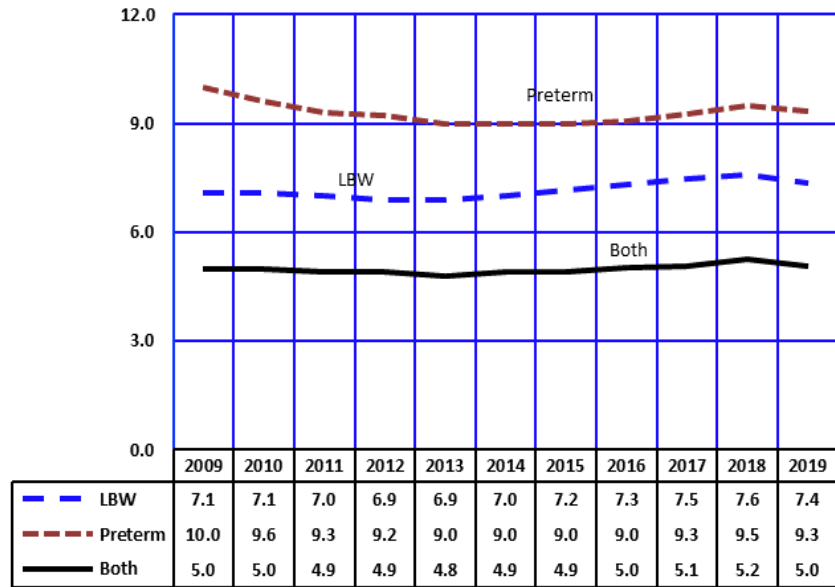
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-11
Preterm^a and Low Birthweight (LBW)^b Births by Year, Arizona, 2009-2019

The proportion of preterm births reached 9.3 percent of all births in 2019, an increase from 9.3 percent, the lowest recorded rate since 2013.

The proportion of infants born prematurely and who were also low birth weight (LBW; at less than 2,500 grams) slightly decreased from 5.2/100 births in 2018 to 5.0/100 births in 2019 (Figure 1B-11).

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

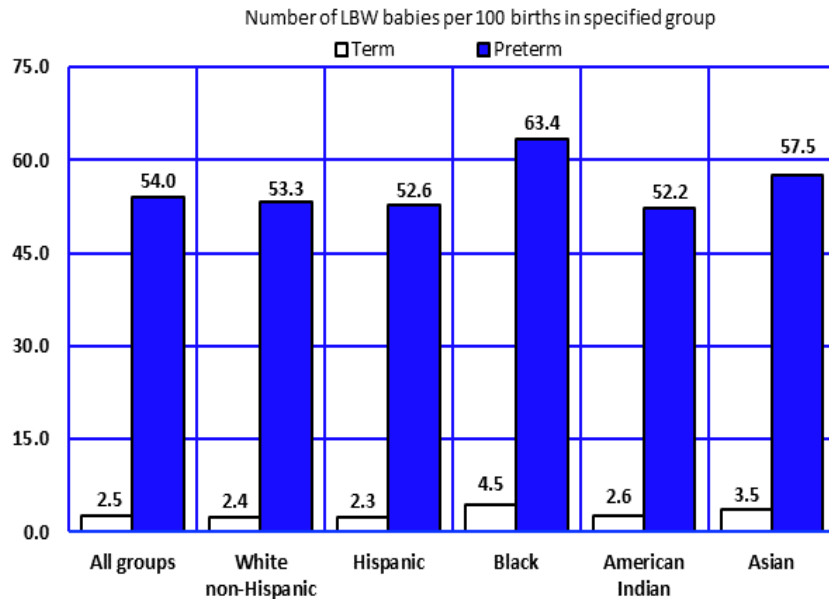


Notes: ^a Preterm: < 37 weeks of gestation; ^b Low birthweight (less than 2,500 grams or 5 pounds 8 ounces); In this report, the primary measure used to determine the gestational age is the clinical estimate of gestation as reported on the birth certificate.

Figure 1B-12
Low-Birthweight (LBW) Births by Length of Gestation and Mother's Race/Ethnicity, Arizona, 2019

In 2019, 7.4 percent of all babies were born at low birthweight (LBW), (weight less than 2,500 grams or 5 pounds 8 ounces), representing a slight increase from the rate recorded in 2009 (7.1 percent). Preterm delivery is the strongest risk factor for LBW. Infants born at less than 37 completed weeks of gestation were 21.6 times (54.0 vs. 2.5 percent) more likely to be LBW than infants born at term (Figure 1B-12). Approximately, seven out of ten (68.5 percent) LBW babies born in 2019 were preterm (Table 1B-3).

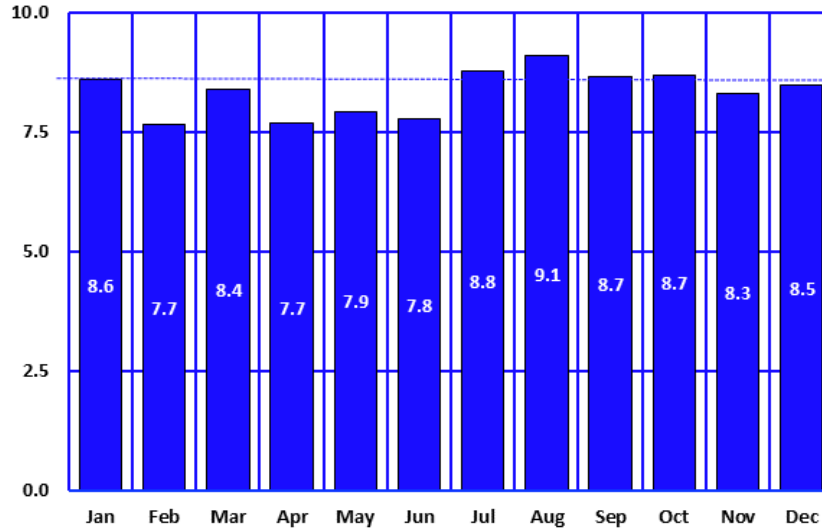
County-level data for LBW newborns are available in (Tables 5B-16 – 5B-23). Community level information is in (Table 9A).



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

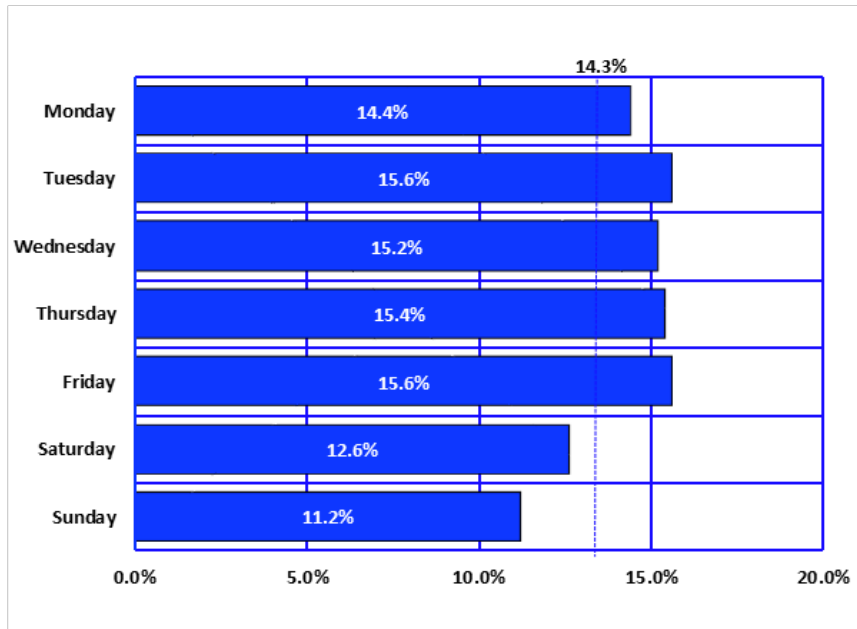
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-13
Percent of Resident Births by Month, Arizona, 2019



Historically, births in Arizona have peaked during August and September, with a monthly average around 8.3 percent. (**Figure 1B-13**). In 2019, the seasonal fluctuation of the frequency of births is marked by peak in August, July, September, and October.

Figure 1B-14
Percent of Resident Births by Day of the Week, Arizona, 2019



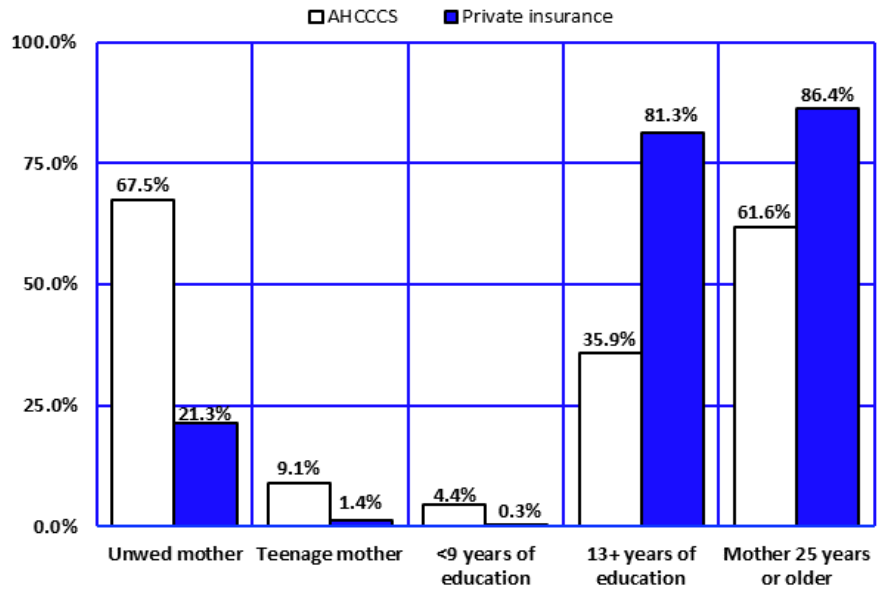
On average, 217 infants were born per day in 2019 to Arizona residents. The daily average of resident live births in 2019 was substantially lower on weekends than on weekdays (**Figure 1B-14**). Many studies suggest that weekly, daily, and hourly variations observed in hospitals and clinics are not due 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 2019, only 8.4 percent of cesarean deliveries occurred on Sundays, compared to 16.2 percent on Mondays. The average rate of induction of labor was substantially lower on weekend days (11.5 percent) than it was on week days (15.4 percent).

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

The number of years of maternal education was the only possible proxy of socioeconomic status (SES) on the birth certificate prior to 1989. Paying party for the delivery became another SES indicator in 1989. The Arizona Health Care Cost Containment System (AHCCCS, the State's Medicaid Program) versus private health insurance (PHI) compares mothers of lower and higher SES respectively. PHI mothers were 2.3 times more likely to have some college education than were AHCCCS mothers (81.3 and 35.9 percent respectively, **Figure 1B-15**). Mothers recipient AHCCCS were more likely to be unmarried (67.5%) than their counterparts with PHI. Nine out of ten mothers with PHI were at least 25 years old compared to 6 out of 10 AHCCCS mothers.

Figure 1B-15
Comparison of Selected Sociodemographic Characteristics by the Payer for Delivery, Arizona, 2019

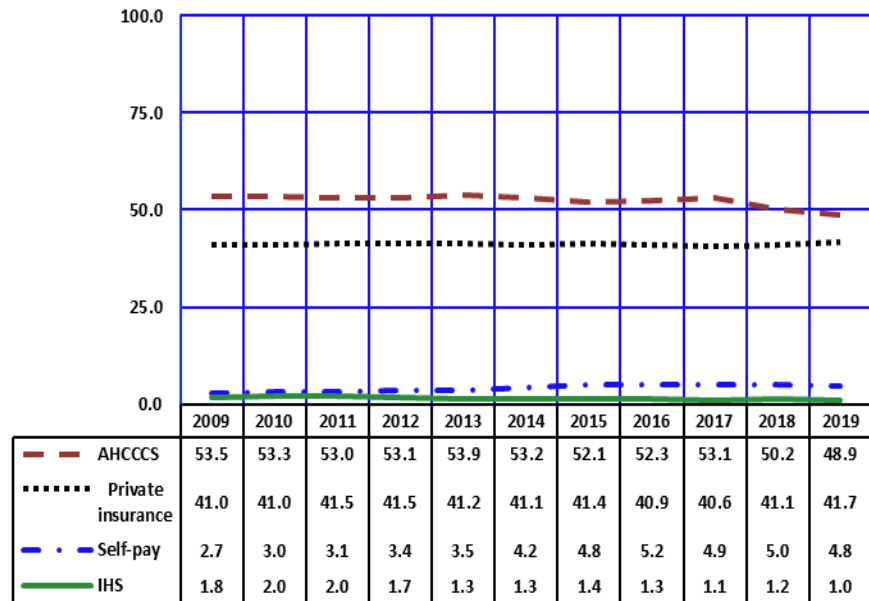


Note: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.

Since 2002, the share of resident births paid for by AHCCCS has exceeded the share paid by private health insurance (**Figure 1B-16**). In 2009, private insurance funded 41.0 percent of births and AHCCCS paid for 53.5 percent of births. Compared to 2009, in 2019 AHCCCS paid for 8.8 percent fewer births and private insurance paid for 1.7 percent fewer births.

The share of AHCCCS funded births varied little from 2009 to 2019. The share of private health insurance also remained stable during this time period. In 2019, the proportion of births paid by AHCCCS decreased 8.7 percent, while the percent of births paid by a private insurance increased 1.7 percent. In 2019, 4.8 percent of births were paid by mothers themselves and/or their families (i.e. self-pay). The Indian Health Service (IHS) paid for 1.0 percent of the births in 2019, a slight decrease from last year (**Table 1B-25 and Table 1B-27**).

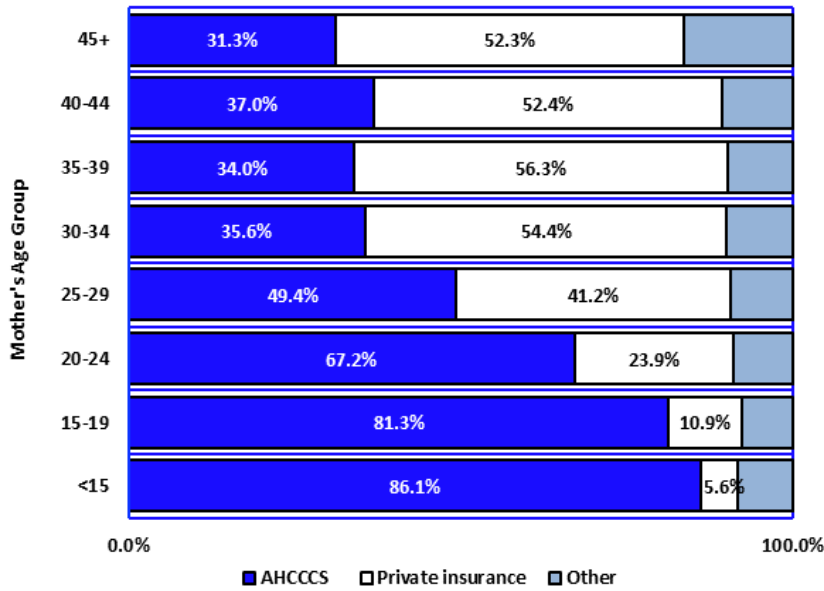
Figure 1B-16
Births by Payer and Year, Arizona, 2009-2019



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

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

Figure 1B-17
Payer for Delivery by Mother's Age Group, Arizona, 2019



In 2019, the Arizona Health Care Cost Containment System (AHCCCS) paid for the majority of the deliveries to mothers 29 years or younger (**Figure 1B-17**). In contrast, private insurance was the largest payer for the deliveries of women aged 30 years old or older in 2019 (based on data in **Table 1B-28**).

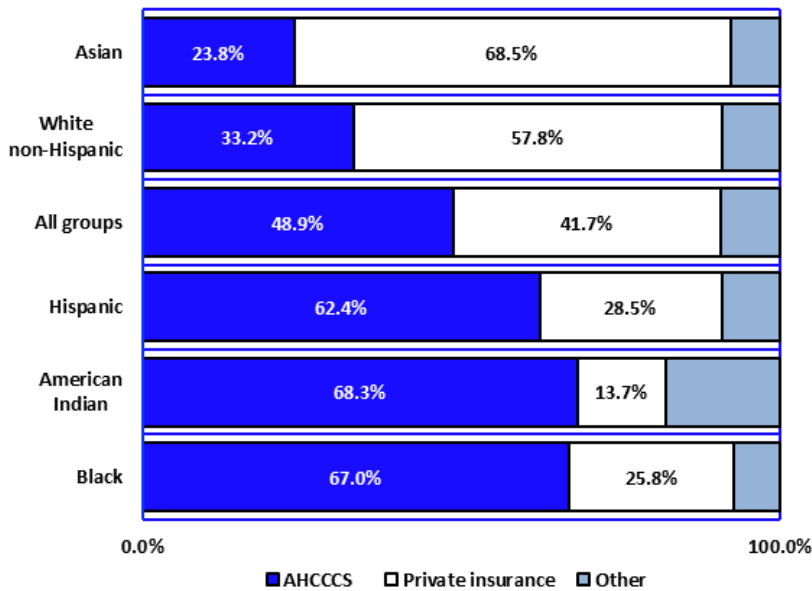
For each of the age groups the AHCCCS share substantially increased since 1989. Below are the proportions of deliveries paid for by AHCCCS in 1989:

- <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 2019, the share of births paid for by AHCCCS more than doubled among mothers 24 years old or younger.

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

Figure 1B-18
Payer for Delivery by Mother's Race/Ethnicity, Arizona, 2019



In 2019, private insurance was the largest payer for deliveries of Asian (68.5 percent) and White non-Hispanic infants (57.8 percent). In contrast, the Arizona Health Care Cost Containment System was the largest payer for deliveries of Black or African American (67.0 percent), American Indian (68.3 percent) Hispanic or Latino infants (62.4 percent).

The Indian Health Service as a payer accounted for 14.9 percent of deliveries of American Indian or Alaska Native infants in the State (**Figure 1B-18**, based on data in **Table 1B-27**).

Hispanics or Latinos accounted for 52.5 percent of the 38,691 deliveries paid for by AHCCCS. About 29.3 percent of all AHCCCS births were to White non-Hispanic women (based on data in **Table 1B-27**).

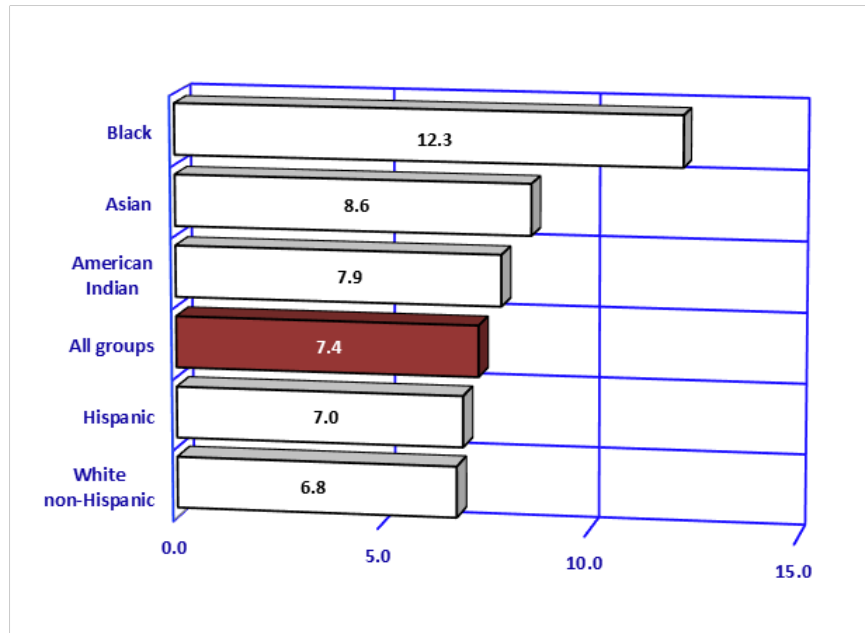
Notes: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program; Other includes Indian Health Service, self-pay, or unknown.

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

Figure 1B-19
Percent of Low Birthweight^a by Mother's Race/Ethnicity,
Arizona Residents, 2019

In 2019, 7.4 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 (8.6 percent), and American Indian mothers (7.9 percent). Newborns of Hispanic or Latino and White non-Hispanic had the lowest LBW rates among all racial/ethnic groups (**Table 1B-25**).

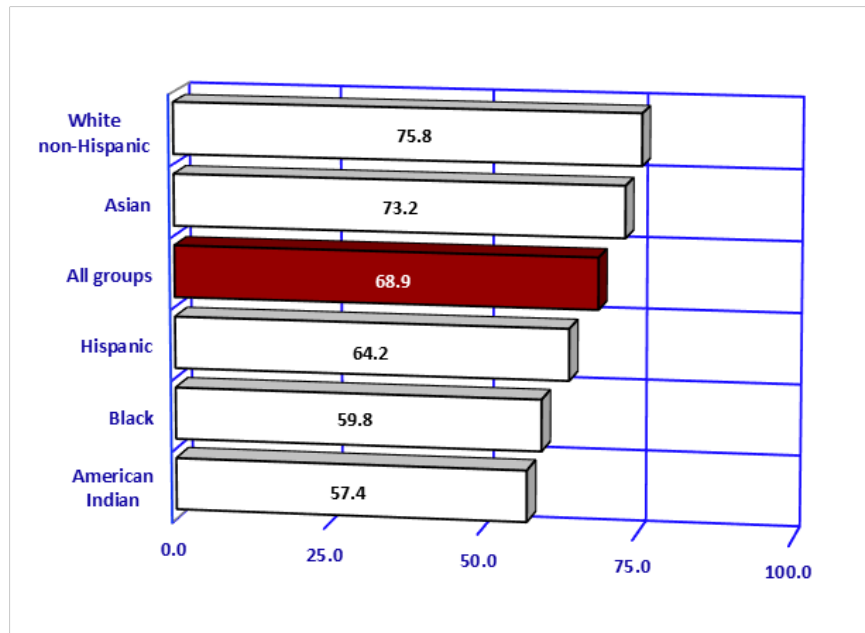


Note: ^a Low birthweight is less than 2,500 grams (less than 5 pounds 8 ounces).

Figure 1B-20
First Trimester Prenatal Care by Mother's Race/Ethnicity,
Arizona Residents, 2019

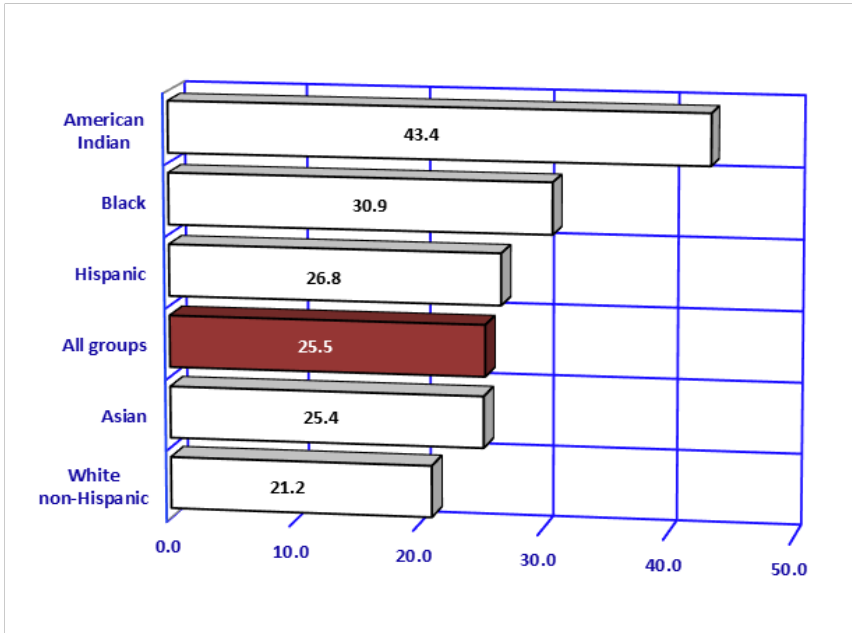
The percent of Arizona mothers giving birth who received early prenatal care (i.e., in the first trimester) has remained relatively stable from 2008 (79.4 percent) to 2013 (81.3 percent; **Table 1B-2**). In 2019, 68.9 percent of Arizona mothers initiated prenatal care during the first trimester. It should be noted that with the adoption of the 2003 revised U.S. birth certificate in 2014, trend analysis of the timing of prenatal care is compromised by significant changes in reporting of prenatal care initiation. Hence, the low proportion of women with timely entry to prenatal care in 2019 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**). White non-Hispanic and Asian or Pacific Islander mothers were more likely to report timely entry to prenatal care than any other racial/ethnic groups (**Table 1B-25**).



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

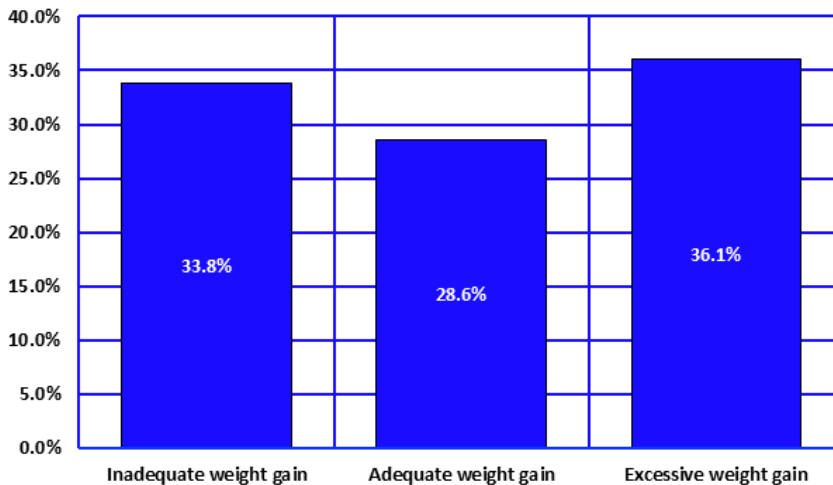
Figure 1B-21
Maternal Medical Risk Factors^a by Mother's Race/Ethnicity, Arizona, 2019



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

Maternal medical risk factors (such as, diabetes, hypertension, eclampsia, or sexually transmissible diseases) can contribute to serious pregnancy complications and infant deaths, if not treated properly. In 2019, with exception to White non-Hispanic mothers, all the mothers from the remaining race/ethnic groups recorded highest proportions of medical risk factors (**Figure 1B-21**).

Figure 1B-22
Low-Birthweight by Maternal Weight Gain during Pregnancy, Arizona, 2019



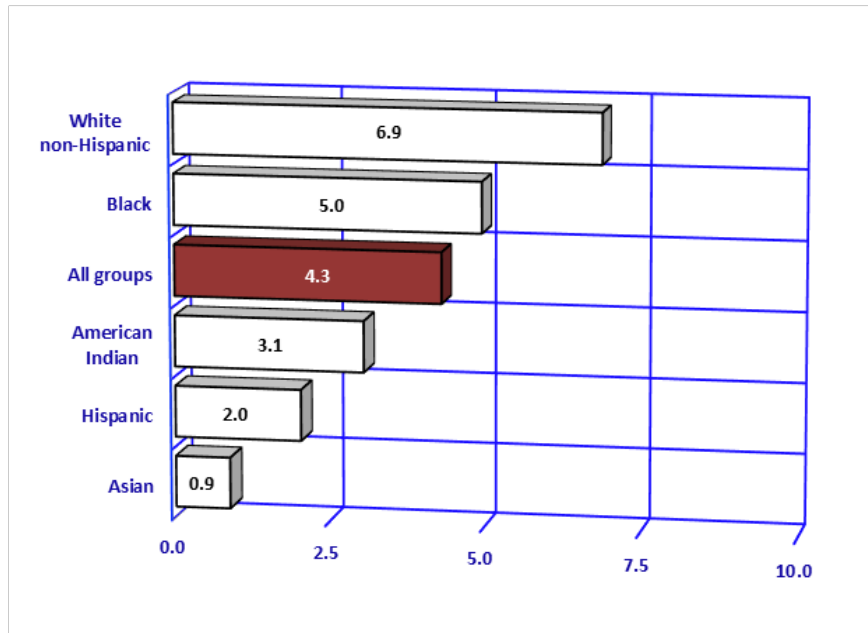
Maternal weight gain during pregnancy is a determinant of both fetal growth and birthweight. Insufficient or excessive weight gain during pregnancy can negatively influence outcomes of both mother and infant. Based on the Institute of Medicine guidelines, women who are of normal weight (body mass index 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 2019, 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, 2019

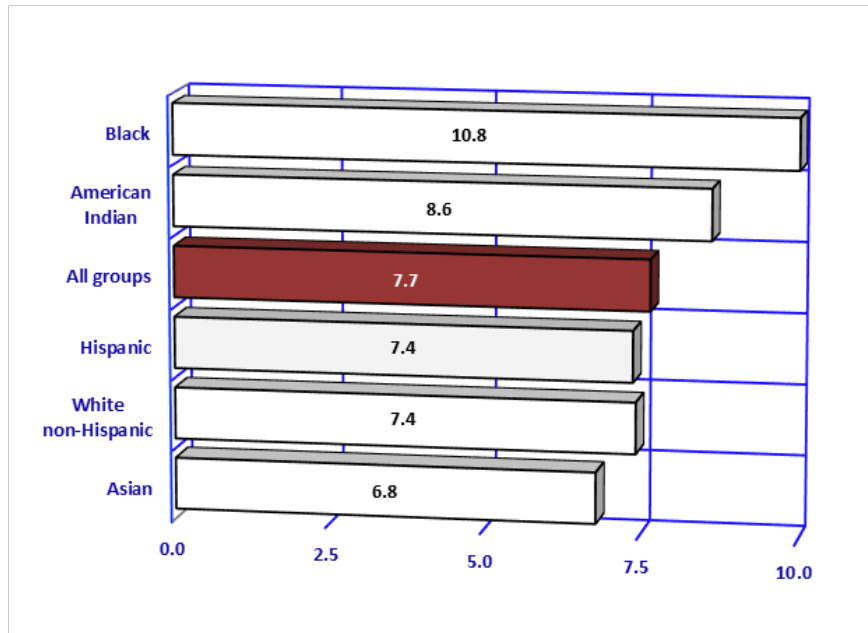
Cigarette smoking during pregnancy has been associated with reduced infant weight at birth, intrauterine growth retardation, and preterm births. Smoking during pregnancy was reported by 4.3 percent of women giving birth in 2019 (**Table 1B-25, Table 5B-30**), compared to 10.5 percent in 1989, when this information was first reported on Arizona birth certificates. It is unclear whether this decline means that women giving birth in Arizona are less likely to use tobacco during pregnancy or, perhaps, less likely to report it if they use. White non-Hispanic and Black mothers continued to be more likely to report smoking than American Indian, Hispanic, and Asian mothers (**Figure 1B-23**).



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

Figure 1B-24
Rates of Admission to Newborn Intensive Care Units^a by Mother's Race/Ethnicity, Arizona, 2019

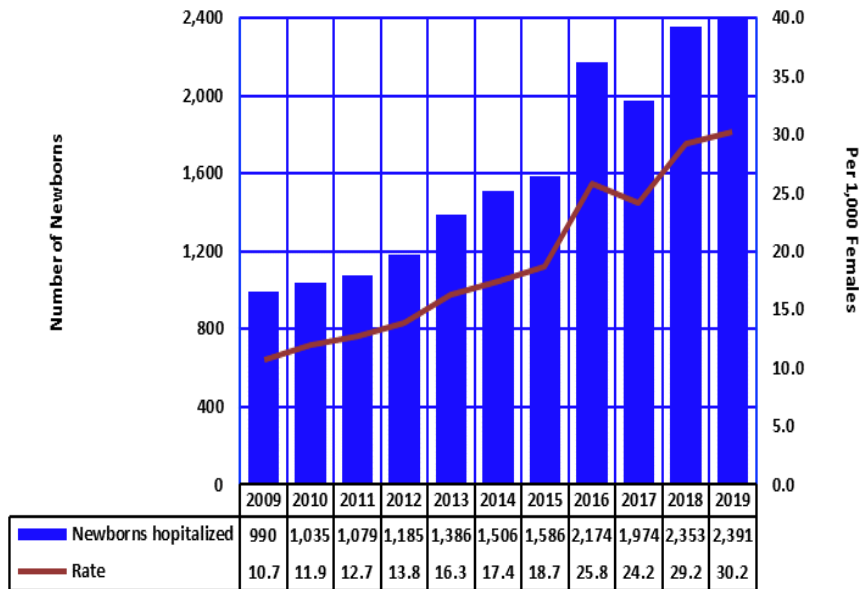
In 2019, 6,065 or 7.7 percent of newborns were admitted to newborn intensive care units (NICUs). The proportion of NICU admissions differed among racial/ethnic groups. Black or African American and American Indian newborns had the highest rates of NICU admissions compared the other racial/ethnic groups (**Table 1B-25**). Prematurity, i.e., gestational age before 37 weeks lead to more NICU admissions (53.9 percent) than did LBW (44.7 percent) **Table 1B-32**.



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

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

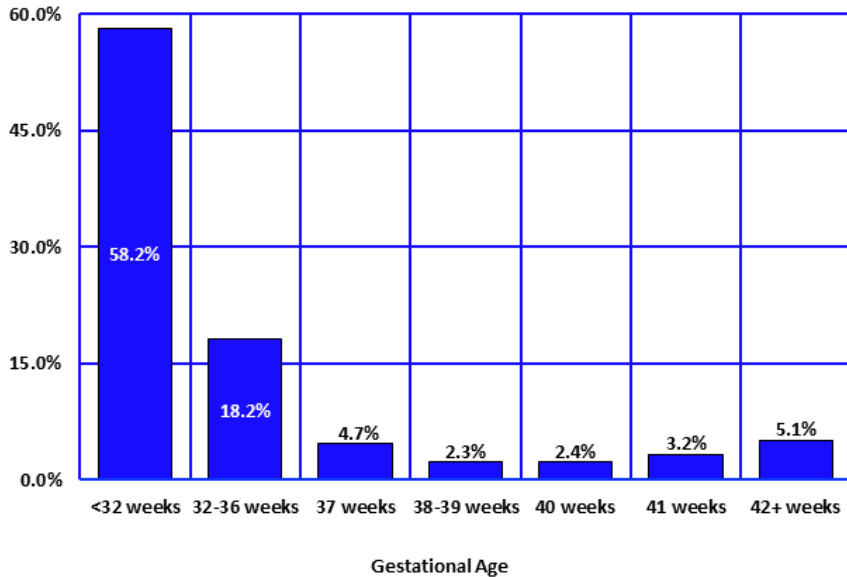
Figure 1B-25
Newborns Who Were Hospitalized after Birth because They Were Affected by Maternal Use of Drugs during Pregnancy, Arizona, 2009-2019



Information about maternal drug use during pregnancy is not reported on Arizona birth certificates. However, it can be obtained from the hospital discharge database. There are several diagnostic codes which identify exposure of fetus or newborn to specific noxious substances (such as narcotics, hallucinogenic agents, or cocaine) transmitted via placenta or breast milk. During the 11-year period under consideration, the newborn hospitalization rate due to maternal use of drug during pregnancy increased from 10.7/1,000 in 2009 to 30.2/1,000 in 2019.

Note: Rate is the number of newborns admitted to Intensive Care Units per 1000 births in specified group.

Figure 1B-26
Abnormal Conditions of the Newborn by Gestational Age, Arizona, 2019



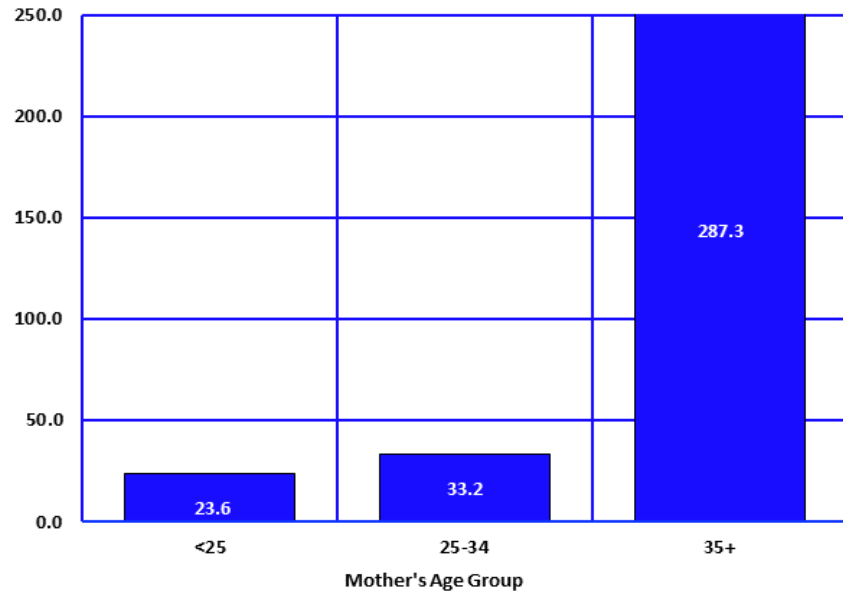
With the implementation of the revised birth certificate, three of the six specific abnormal conditions listed on the birth certificate have been reported most frequently: *assisted ventilation immediately after delivery, assisted ventilation for more than six hours, and suspected neonatal sepsis*. The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

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

Figure 1B-27
The Incidence of Down Syndrome by Mother's Age Group, Arizona, 2019

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 2019 as in prior years, the rate of Down's Syndrome, the most frequently recognized cause of intellectual disability, was substantially higher for births to mothers aged 35 years and older (**Figure 1B-27, Table 1B-33**). The incidence rate of 287.3 cases of Down's Syndrome per 100,000 births to women 35 years or older was 12.2 times greater than the incidence rate of 23.6 for women aged 24 years or younger.



**TABLE 1B-1
BIRTH RATE^a, GENERAL FERTILITY RATE^b, TOTAL FERTILITY RATE^c,
GROSS REPRODUCTION RATE^d, AND AGE-SPECIFIC BIRTH RATES^e BY YEAR,
ARIZONA AND UNITED STATES^f, 2009-2019**

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
2009	AZ	14.0	68.9	2,058	1,006	0.6	49.1	110.4	110.7	88.6	42.5	8.9	0.8
	U.S.	13.5	66.7	2,007	NA	0.5	39.1	96.3	110.5	97.7	46.5	10.1	0.7
2010	AZ	13.6	68.9	2,058	1,011	0.5	41.6	104.3	116.1	94.4	44.4	9.7	0.7
	U.S.	13.0	64.1	1,931	NA	0.4	34.2	90.0	108.3	96.5	45.9	10.2	0.7
2011	AZ	13.2	67.0	2,001	976	0.5	36.9	101.4	112.3	94.0	44.2	10.3	0.2
	U.S.	12.7	63.2	1,894	NA	0.4	31.3	85.3	107.2	96.5	47.2	10.3	0.7
2012	AZ	13.2	67.2	2,018	984	0.3	35.4	100.1	116.4	94.6	459.0	10.3	0.6
	U.S.	12.6	63.0	1,881	NA	0.4	29.4	83.1	106.5	97.3	48.3	10.4	0.7
2013	AZ	12.9	66.0	1,981	963	0.3	31.3	96.7	118.4	93.0	46.4	9.8	0.1
	U.S.	12.5	62.5	1,870	NA	0.3	26.6	81.2	106.2	98.7	49.6	10.5	0.8
2014	AZ	13.0	66.7	1,986	968	0.2	29.9	90.7	117.6	98.1	49.7	10.1	0.9
	U.S.	12.5	62.9	1,863	NA	0.3	24.2	79.0	105.8	100.8	51.0	10.6	0.8
2015	AZ	12.6	64.8	1,924	938	0.2	26.3	86.6	115.4	95.9	48.9	10.5	0.9
	U.S.	12.5	62.5	1,843	NA	0.2	22.3	76.9	104.3	101.4	51.7	11.0	0.8
2016	AZ	12.3	63.9	1,895	930	0.2	23.7	84.2	112.9	98.2	48.7	10.2	0.8
	U.S.	12.4	62.0	1,818	NA	0.2	20.3	73.7	101.9	102.6	52.6	11.4	0.9
2017	AZ	11.7	61.1	1,805	888	0.2	21.9	78.9	105.6	94.9	47.8	10.6	1.1
	U.S.	12.2	60.3	1,764	NA	0.2	18.8	71.0	97.9	100.3	52.2	11.6	0.9
2018	AZ	11.4	59.4	1,750	854	0.1	20.1	76.0	100.3	93.6	48.0	11.1	0.9
	U.S.	11.6	59.1	1,728	NA	0.2	17.4	68.0	95.3	99.7	52.6	11.8	0.9
2019	AZ	11.0	57.4	1,688	823	0.2	18.5	71.2	97.5	92.3	46.4	10.7	0.7
	U.S.	11.6	58.2	1,705	NA	0.2	16.6	66.6	93.7	98.3	52.7	12.0	0.9

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

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

^c The total fertility rate (TFR) is the sum of age group specific birth rates multiplied by the number of years in the age group (five years in this case). This rate estimates the number of children a hypothetical cohort of 1,000 women would bear if they all went through their childbearing years experiencing the same age-specific birth rates for a specified time period. For example, the Arizona 2019 TFR of 1,688 can be interpreted at the individual level as the average number of children a female resident would have by age 50 ($1,688/1000 = 1.688$ live births) if she were subjected throughout her life to the age-specific birth rates observed in 2019.

^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 2009-2019.

^e The number of births per 1,000 women in specified age group. For females under 15, the rate is calculated using the female population 10-14 years of age. For women over 44, the rate is calculated using the female population 45-49 years of age.

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

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

**TABLE 1B-2
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE
AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX,
BIRTH ORDER, AND BIRTH COMPLICATIONS^a, ARIZONA, 2009-2019
(ALL RACE/ETHNIC GROUPS)**

Characteristic	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Number of births	92,616	87,053	85,190	85,725	84,963	86,648	85,024	84,404	81,664	80,539	79,183
Age of mother											
≤19 years	11.8	10.8	9.9	9.5	8.5	7.6	6.9	6.4	6.2	5.8	5.5
≥30 years	33.8	35.0	36.1	36.7	37.2	38.8	39.3	40.2	40.9	42.0	42.6
Marital status											
Unmarried	45.2	44.7	44.3	45.2	45.1	44.7	45.3	44.8	44.4	44.6	45.0
Mother's education											
<9 years	6.1	5.3	4.6	4.3	3.8	3.7	3.5	3.2	3.1	3.0	2.8
Mother's race/ethnicity											
White ^b	43.0	44.5	45.0	45.1	45.0	46.3	44.9	44.7	43.7	43.3	43.1
Hispanic	41.4	39.4	38.0	38.7	38.9	38.9	40.3	40.1	40.6	41.0	41.1
Black	4.7	5.0	5.1	5.5	5.6	5.2	5.1	5.2	5.6	5.8	6.1
American Indian	6.7	6.7	6.8	6.5	6.4	5.9	5.9	6.0	6.0	5.8	5.6
Asian or Pacific Islander	4.2	4.4	5.0	4.2	4.1	3.7	3.8	4.0	4.1	4.1	4.0
Prenatal care begin											
1 st Trimester	80.3	81.9	81.7	82.6	81.3	66.0	67.9	68.9	68.3	68.8	68.9
3 rd Trimester	3.4	3.2	3.1	3.2	3.6	5.3	5.5	5.8	5.7	6.2	6.8
No Care	1.8	1.6	1.6	1.2	1.4	2.1	2.2	2.4	2.9	2.8	2.6
Prenatal visits											
1-4	3.5	3.3	3.4	3.6	3.8	4.4	4.4	4.6	4.6	5.0	5.6
≥5	94.5	94.9	94.5	94.9	94.7	92.1	92.2	91.5	90.8	90.9	89.9
≥9	78.9	80.5	80.6	81.3	81.2	77.6	77.0	76.0	75.6	74.5	72.4
≥13	30.0	31.6	33.7	34.6	34.8	30.7	30.4	29.9	31.2	31.0	29.2
Medical risk/ Complications^c	48.1	49.7	46.3	52.4	55.5	34.5	39.0	40.7	42.7	44.2	46.9
Gestational age^d											
Preterm (<37 weeks)	10.0	9.6	9.3	9.2	9.0	9.0	9.0	9.0	9.3	9.5	9.3
Birth weight											
<2,500 grams	7.1	7.1	7.0	6.9	6.9	7.0	7.2	7.3	7.5	7.6	7.4
<1,500 grams	1.2	1.1	1.2	1.2	1.1	1.2	1.1	1.2	1.2	1.2	1.1
Child's sex											
Male	51.1	50.9	51.2	51.2	51.4	51.3	51.3	50.9	50.8	51.2	51.2
Female	48.9	49.1	48.8	48.8	48.6	48.7	48.7	49.1	49.2	48.8	48.8
Plurality											
Multiple births	2.8	2.9	2.8	2.8	3.0	3.0	3.0	3.1	3.3	3.3	3.0
Caesarean delivery	27.7	27.6	27.9	27.6	27.8	27.7	27.5	27.5	26.8	27.5	27.8
Place of delivery											
Hospital ^e	98.8	98.8	98.5	98.6	98.7	98.5	98.5	98.3	98.3	98.2	98.3
Attendant at birth											
Midwife ^f	6.5	6.6	6.4	7.2	7.4	10.2	11.8	12.8	13.5	13.1	13.9
Previous live births											
1 or more	63.1	63.0	62.6	62.7	63.6	64.0	64.3	64.8	64.4	64.2	63.9

Notes: ^a Rates per 100 births.

^b Non-Hispanic.

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

^d Physician's estimate.

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

^f Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-3
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL
CARE AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX,
BIRTH ORDER, AND BIRTH COMPLICATIONS^a, ARIZONA, 2009-2019
(ALL RACE/ETHNIC GROUPS)**

Characteristic	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Number of births	6,573	6,155	5,949	5,946	5,849	6,069	6,093	6,186	6,109	6,106	5,829
Age of mother											
≤19 years	13.1	12.3	11.6	10.7	8.9	7.8	7.8	7.0	7.1	6.5	5.7
≥30 years	37.4	37.8	37.9	39.4	37.9	40.9	42.0	42.4	43.0	46.3	45.6
Marital status											
Unmarried	48.5	49.4	50.0	51.4	51.3	49.1	47.5	48.2	49.6	49.8	50.0
Mother's education											
<9 years	5.7	4.7	4.5	4.5	4.2	3.8	3.5	3.7	3.0	3.0	2.9
Mother's race/ethnicity											
White ^b	41.5	41.9	43.5	42.1	42.0	44.7	41.7	41.8	41.0	40.3	40.0
Hispanic	38.7	38.1	34.9	37.9	37.6	37.0	38.8	38.8	38.3	38.9	39.0
Black	8.5	8.0	9.2	9.3	8.9	8.8	8.8	8.5	9.4	9.4	10.2
American Indian	6.0	6.6	6.8	6.3	6.7	5.2	6.0	5.9	6.2	6.1	6.1
Asian or Pacific Islander	5.2	5.4	5.7	4.4	4.7	4.2	4.8	5.1	5.2	5.2	4.7
Prenatal care began											
1st Trimester	80.6	81.0	81.2	80.0	78.9	63.6	65.0	66.0	65.9	64.2	64.5
3rd Trimester	2.6	2.7	2.3	2.7	3.4	4.1	3.9	4.5	4.0	4.8	4.9
No Care	3.6	3.2	3.2	2.9	2.9	4.8	5.2	5.0	5.6	6.9	6.7
Prenatal visits											
1-4	7.6	7.5	7.3	8.6	8.2	8.6	9.4	9.5	9.4	10.2	11.4
≥5	88.3	88.8	88.5	87.9	88.5	84.8	83.1	82.6	82.3	79.6	78.9
≥9	64.1	65.2	65.0	65.5	66.4	60.4	58.1	57.4	56.1	52.1	51.9
≥13	25.7	27.1	28.5	26.7	27.7	22.1	20.2	20.1	21.3	20.1	19.1
Medical risks/ Complications^c	70.5	73.3	69.2	73.2	72.5	58.9	60.0	62.0	65.1	68.7	68.5
Gestational age^d											
Preterm (<37 weeks)	71.2	70.2	70.1	71.2	70.2	69.4	68.8	68.7	67.8	69.2	68.5
Birth weight											
<1,500 grams	16.7	15.3	16.8	16.6	15.8	16.8	16.0	16.3	15.8	16.1	15.5
<1,000 grams	8.0	7.1	8.3	8.1	7.4	8.4	7.4	8.0	7.7	7.8	7.2
Child's sex											
Male	47.8	46.5	46.8	48.7	49.3	47.7	47.4	48.0	46.9	47.2	48.0
Female	52.2	53.5	53.2	51.3	50.7	52.3	52.6	52.0	53.1	52.8	52.0
Plurality											
Multiple births	22.1	23.1	22.8	23.0	24.4	23.7	22.5	23.9	22.8	24.6	22.7
Caesarean delivery	46.4	46.5	46.8	47.7	47.6	47.4	48.6	48.4	47.0	49.1	50.1
Place of delivery											
Hospital ^e	99.8	99.6	99.4	99.7	99.7	99.7	99.5	99.4	99.3	99.6	99.4
Attendant at birth											
Midwife ^f	2.3	2.6	2.3	2.5	2.7	9.5	10.5	11.0	12.3	11.8	12.9
Previous live births											
1 or more	59.7	60.3	59.6	61.4	60.5	61.4	60.9	61.0	60.7	61.8	61.2

Notes: ^a Rates per 100 births.

^b Non-Hispanic.

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

^d Physician's estimate.

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

^f Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-4
ALL LIVE BIRTHS AND LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED
MATERNAL, PRENATAL CARE, DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY,
CHILD'S SEX, BIRTH ORDER, AND BIRTH COMPLICATIONS^a, ARIZONA, 2009-2019
(URBAN REGIONS)^b**

Characteristic		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Number of births		79,046	74,624	73,040	74,128	73,493	74,677	73,547	72,899	70,780	69,890	68,797
Age of mother	≤19 years	11.2	10.3	9.4	9.0	8.2	7.3	6.6	6.1	5.8	5.5	5.2
	≥30 years	35.1	36.2	37.4	37.9	38.4	40.0	40.6	41.2	42.0	43.1	43.5
Marital status	Unmarried	44.2	43.6	43.2	44.1	44.1	43.6	44.1	43.7	43.2	43.4	43.9
Mother's education	<9 years	6.5	5.6	4.9	4.7	4.0	3.9	3.7	3.5	3.2	3.1	3.0
Mother's race/ethnicity	White ^c	42.1	44.1	45.0	44.6	44.3	45.7	44.5	44.0	43.1	42.6	42.2
	Hispanic	44.4	42.0	40.5	40.9	41.3	41.3	42.5	42.5	43.0	43.2	43.4
	Black	5.3	5.6	5.7	6.1	6.2	5.9	5.8	5.9	6.3	6.5	6.9
	American Indian	3.6	3.6	3.7	3.7	3.7	3.1	3.1	3.2	3.1	3.2	3.1
	Asian	4.6	4.7	5.0	4.7	4.5	4.0	4.2	4.4	4.5	4.4	4.4
Prenatal care began	1st Trimester	81.5	83.1	82.5	83.4	82.1	66.6	68.3	69.4	68.7	69.5	69.9
	3rd Trimester	3.0	2.9	2.9	3.1	3.5	5.2	5.3	5.6	5.4	6.1	6.6
	No care	1.9	1.6	1.6	1.2	1.3	2.1	2.1	2.3	2.8	2.6	2.3
Prenatal visits	1-4	3.0	2.9	3.0	3.2	3.5	4.0	4.1	4.3	4.2	4.7	5.3
	≥5	94.9	95.4	94.8	95.3	95.1	92.4	92.6	91.9	91.2	91.5	90.5
	≥9	80.1	81.9	81.8	82.4	82.3	78.7	78.2	77.1	76.7	75.6	73.2
	≥13	30.6	32.1	34.1	35.1	35.3	31.1	31.0	30.1	31.7	31.7	29.8
Medical risks/complications^d		48.6	50.1	47.2	52.5	56.1	34.5	39.4	41.4	43.1	44.7	47.5
Gestational age^e	Preterm (<37 weeks)	10.1	9.7	9.4	9.2	9.1	9.1	9.0	9.0	9.2	9.5	9.3
Birth weight	<2,500 grams	7.0	7.0	6.9	6.9	6.8	7.0	7.1	7.2	7.4	7.6	7.3
	<1,500 grams	1.2	1.1	1.2	1.2	1.1	1.2	1.1	1.2	1.2	1.2	1.1
Child's sex	Male	51.3	50.8	51.2	51.2	51.4	51.3	51.3	51.0	50.7	51.1	51.3
	Female	48.7	49.2	48.8	48.8	48.6	48.7	48.7	49.0	49.3	48.9	48.7
Plurality	Multiple births	2.8	3.0	2.9	2.9	3.1	3.1	3.0	3.2	3.3	3.3	3.0
Caesarean delivery		28.1	28.0	28.3	27.9	28.1	28.1	27.9	27.7	27.2	27.7	28.0
Place of delivery	Hospital ^f	99.1	99.0	98.8	98.7	98.7	98.7	98.6	98.4	98.4	98.3	98.4
Attendant at birth	Midwife ^g	5.5	5.4	5.2	6.3	6.3	10.1	12.1	13.0	13.8	13.1	14.1
Previous live births	1 or more	62.9	62.8	62.4	62.6	63.4	63.7	64.0	64.6	64.0	63.9	63.6
Number of LBW births		5,548	5,238	5,065	5,096	5,013	5,232	5,199	5,270	5,224	5,277	5,030
Age of mother	≤19 years	12.7	12.1	10.9	10.2	8.8	7.3	7.4	6.3	6.9	6.1	5.8
	≥30 years	38.5	38.8	39.3	40.4	39.3	42.0	43.6	44.2	44.1	47.5	46.3
Marital status	Unmarried	48.1	48.4	49.0	50.1	50.8	48.3	49.5	47.1	48.4	48.1	49.0
Mother's education	<9 years	5.8	5.2	4.9	4.7	4.3	4.0	3.6	3.9	3.2	3.2	3.0
Mother's race/ethnicity	White ^c	40.5	41.1	42.8	41.1	40.9	43.3	40.4	41.1	40.2	39.9	38.9
	Hispanic	40.9	40.5	37.2	40.2	39.8	39.4	41.3	40.8	40.6	40.7	41.2
	Black	9.8	9.1	10.3	10.4	10.2	9.9	10.0	9.7	10.8	10.5	11.6
	American Indian	3.0	3.5	3.4	3.3	4.0	2.7	3.0	2.8	2.7	3.2	3.0
	Asian	5.7	5.7	6.3	4.9	5.1	4.6	5.3	5.7	5.6	5.7	5.2
Prenatal care began	1st Trimester	81.3	82.1	81.9	80.5	79.8	63.8	66.0	66.8	66.7	65.2	66.0
	3rd Trimester	2.2	2.4	2.0	2.6	3.3	4.1	3.8	4.3	3.8	4.7	4.8
	No care	3.8	3.0	3.0	2.8	2.7	4.9	4.8	4.3	5.3	6.2	5.7
Prenatal visits	1-4	7.2	7.1	7.0	7.8	7.8	8.4	8.9	8.6	8.7	9.7	11.0
	≥5	88.7	89.5	88.8	88.9	89.1	84.8	84.1	84.0	83.3	81.0	80.1
	≥9	65.0	66.6	65.8	66.5	67.7	60.8	59.6	58.6	57.7	53.7	52.7
	≥13	26.3	28.1	29.1	27.3	28.4	22.6	20.6	20.6	21.8	21.0	19.3
Medical risks/complications^d		71.8	74.6	70.8	74.2	73.7	59.0	60.0	61.7	65.3	68.3	68.6
Gestational age^e	Preterm (<37 weeks)	72.2	70.6	71.2	71.3	70.8	70.7	69.5	69.5	67.7	69.6	68.4
Birth weight	<1,500 grams	17.2	15.3	17.4	16.9	15.9	17.0	16.0	16.6	15.7	16.0	15.3
	<1,000 grams	8.3	7.3	8.7	8.4	7.6	8.6	7.7	8.2	7.9	7.7	7.3
Child's sex	Male	48.0	45.9	47.0	48.6	49.2	48.1	47.8	48.3	46.8	46.9	48.2
	Female	52.0	54.1	53.0	51.4	50.8	51.9	52.2	51.7	53.2	53.1	51.8
Plurality	Multiple births	22.8	24.0	23.3	23.9	25.2	24.3	23.4	24.6	23.9	25.4	23.0
Caesarean delivery		47.2	47.0	47.7	48.7	48.0	48.3	49.2	48.8	47.5	49.4	50.5
Place of delivery	Hospital ^f	99.8	99.7	99.5	99.8	99.8	99.8	99.7	99.6	99.5	99.8	99.4
Attendant at birth	Midwife ^g	1.9	2.1	1.6	2.0	2.2	9.5	10.6	11.0	12.3	11.9	13.2
Previous live births	1 or more	59.7	59.3	59.2	61.2	60.0	61.4	60.6	61.0	60.2	61.4	60.3

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; data for years 2014 and 2015 in bold were updated due to correction.

^e Physician's estimate.

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

^g Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-5
ALL LIVE BIRTHS AND LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED
MATERNAL, PRENATAL CARE AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY,
CHILD'S SEX, BIRTH ORDER, AND BIRTH COMPLICATIONS^a, ARIZONA, 2009-2019
(RURAL REGIONS)^b**

Characteristic	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Number of births	13,570	12,429	12,150	11,597	11,470	11,955	11,467	11,502	10,873	10,640	10,368
Age of mother											
≤19 years	15.4	13.9	12.7	12.2	10.6	9.8	9.0	8.5	8.3	7.5	6.9
≥30 years	26.7	27.9	28.2	29.3	29.4	31.3	30.9	33.4	33.9	34.7	36.2
Marital status											
Unmarried	50.7	51.2	51.0	52.4	52.0	51.7	53.0	51.8	52.8	52.3	52.2
Mother's education											
<9 years	4.0	3.1	2.5	2.2	2.4	2.3	1.9	1.8	1.9	1.9	1.7
Mother's race/ethnicity											
White ^c	48.1	47.2	47.9	48.7	49.1	49.8	47.7	49.3	47.5	47.9	48.7
Hispanic	24.3	24.4	23.0	24.1	24.0	24.2	26.4	25.3	25.1	26.3	26.3
Black	1.2	1.2	1.4	1.5	1.3	0.9	0.9	1.0	1.1	1.0	1.0
American Indian	24.4	25.0	25.7	24.2	24.0	23.5	23.6	23.2	24.7	23.2	22.6
Asian	2.1	2.2	2.0	1.5	1.7	1.5	1.4	1.2	1.6	1.6	1.4
Prenatal care began											
1st Trimester	73.3	74.8	77.1	77.7	76.3	62.5	64.8	65.4	65.4	64.0	62.4
3rd Trimester	5.5	5.3	4.1	4.3	4.1	6.3	6.7	7.3	7.3	7.1	8.0
No care	1.5	1.8	1.5	1.5	2.2	1.9	3.0	3.0	3.1	4.1	4.1
Prenatal visits											
1-4	6.1	5.9	5.7	5.7	5.6	6.6	6.2	7.0	7.4	7.0	7.3
≥5	92.0	91.8	92.3	92.4	92.0	90.5	89.9	89.1	88.5	86.9	85.9
≥9	71.5	71.9	73.3	73.9	73.8	71.1	69.5	69.1	68.4	67.3	66.6
≥13	26.5	28.7	31.2	31.0	31.7	28.3	26.7	28.4	28.2	26.4	25.0
Medical risks/complications^d	45.1	47.9	41.1	52.0	51.8	34.1	36.7	37.8	39.8	41.3	43.1
Gestational age^e											
Preterm (<37 weeks)	9.7	9.4	8.8	9.1	8.7	8.3	8.9	9.1	9.6	9.3	9.4
Birth weight											
<2,500 grams	7.6	7.4	7.3	7.3	7.3	7.0	7.8	8.0	8.1	7.8	7.7
<1,500 grams	1.1	1.1	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3
Child's sex											
Male	50.3	51.4	51.3	51.2	51.3	51.1	51.0	50.3	51.6	51.9	50.7
Female	49.7	48.6	48.7	48.8	48.7	48.9	49.0	49.7	48.4	48.1	49.3
Plurality											
Multiple births	2.5	2.3	2.6	2.2	2.4	2.5	2.6	2.9	2.9	2.7	2.7
Caesarean delivery	25.4	25.2	25.8	25.7	25.8	25.2	25.0	26.2	24.6	26.1	25.8
Place of delivery											
Hospital ^f	96.9	97.2	97.0	98.0	98.2	97.7	97.6	97.3	97.1	97.4	97.6
Attendant at birth											
Midwife ^g	12.6	13.4	14.0	13.4	14.2	10.7	10.2	11.3	11.2	13.1	12.8
Previous live births	64.3	64.3	63.8	63.3	64.8	66.0	65.8	66.3	67.1	66.5	65.8
Number of LBW births	1,025	917	884	850	836	835	891	916	884	827	799
Age of mother											
≤19 years	15.1	13.1	15.5	13.9	9.7	11.3	10.3	10.6	8.6	9.1	5.0
≥30 years	31.1	31.7	30.1	32.8	29.9	34.5	32.8	32.3	36.5	38.8	40.7
Marital status											
Unmarried	50.6	55.2	55.7	59.1	54.2	53.9	57.1	54.3	56.3	60.5	55.9
Mother's education											
<9 years	4.9	2.3	2.3	3.1	3.0	2.3	2.5	2.3	1.9	1.6	2.3
Mother's race/ethnicity											
White ^c	46.8	46.6	47.3	48.1	49.2	53.5	49.2	46.0	45.7	43.0	46.7
Hispanic	26.9	24.1	21.6	24.2	24.4	22.0	24.2	27.4	24.5	27.7	25.3
Black	1.3	1.4	2.6	2.2	1.4	2.2	1.5	1.6	0.9	2.2	1.6
American Indian	22.2	24.1	26.2	24.0	22.8	20.7	23.2	23.5	26.6	24.8	25.2
Asian	2.8	3.8	2.3	1.4	2.2	1.6	1.9	1.5	2.3	2.3	1.3
Prenatal care began											
1st Trimester	76.7	74.3	77.3	76.5	74.0	62.5	59.5	61.6	61.4	58.2	55.3
3rd Trimester	4.4	4.0	3.5	3.4	4.2	4.0	5.1	5.6	5.0	5.3	5.1
No care	2.6	4.4	4.0	3.8	4.1	4.0	7.3	8.7	7.2	11.2	12.4
Prenatal visits											
1-4	9.8	9.5	8.7	13.1	10.3	9.7	12.2	14.3	13.1	13.3	13.5
≥5	86.4	85.1	86.2	82.0	84.7	84.9	77.6	74.7	77.0	70.9	71.1
≥9	59.2	57.4	60.4	59.2	58.9	58.2	49.5	50.0	46.9	41.5	46.4
≥13	22.6	21.3	25.2	22.9	23.3	19.2	17.8	17.6	18.8	14.1	17.8
Medical risks/complications^d	63.6	66.1	60.2	67.4	65.4	58.0	59.9	63.9	63.6	70.9	68.0
Gestational age^e											
Preterm (<37 weeks)	65.7	67.8	64.0	70.5	66.6	61.0	65.2	63.6	67.9	66.5	68.8
Birth weight											
<1,500 grams	14.4	15.3	13.5	14.5	15.7	15.3	10.0	14.7	16.4	17.0	16.3
<1,000 grams	5.9	6.3	6.0	6.2	6.3	7.1	5.7	6.7	6.7	8.6	6.6
Child's sex											
Male	47.0	50.2	45.9	49.2	50.0	45.0	44.6	46.4	47.9	49.0	47.1
Female	53.0	49.8	54.1	50.8	50.0	55.0	55.4	53.6	52.1	51.0	52.9
Plurality											
Multiple births	18.4	17.9	20.5	17.9	19.5	20.2	17.5	19.8	16.5	19.2	20.9
Caesarean delivery	42.0	43.2	41.4	41.8	45.5	42.3	45.2	46.0	44.3	47.2	47.6
Place of delivery											
Hospital ^f	99.4	99.2	98.5	98.9	99.2	99.0	98.4	98.1	98.0	98.8	99.5
Attendant at birth											
Midwife ^g	4.6	5.3	6.3	5.2	5.7	9.2	9.7	10.7	11.9	11.4	10.6
Previous live births	59.8	65.6	62.2	62.4	63.3	61.1	62.3	61.0	63.7	64.1	66.8

Notes: ^a Rates per 100 births.

^b Rural = Apache, Cochise, Coconino, Gila, Graham, Greenlee, La Paz, Mohave, Navajo, Santa Cruz, and Yavapai counties; the remaining counties comprise Arizona's urban areas; see Technical Notes for more information.

^c Non-Hispanic.

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

^e Physician's estimate.

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

^g Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-6
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS^a, ARIZONA, 2009-2019
(WHITE NON-HISPANIC MOTHERS)

Characteristic	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Number of births	39,781	38,777	38,294	38,670	38,220	40,097	38,180	37,762	35,685	34,909	34,118
Age of mother											
≤19 Years	6.8	6.2	5.5	5.1	4.7	4.4	4.0	3.6	3.3	3.1	2.9
≥30 Years	39.3	40.4	41.5	42.9	43.2	45.1	45.6	47.0	48.0	49.2	49.3
Marital status											
Unmarried	29.7	29.9	29.5	30.4	30.3	31.1	31.5	31.3	30.7	31.1	31.3
Mother's education											
<9 years	1.2	1.1	1.2	1.0	0.8	0.7	0.8	0.6	0.8	0.7	0.7
Prenatal care began											
1st Trimester	87.9	88.2	88.0	88.4	87.4	71.7	73.2	74.7	74.6	75.7	75.8
3rd Trimester	1.9	2.1	1.8	1.8	2.0	3.5	3.7	3.9	4.2	4.3	4.8
No Care	0.7	0.6	0.6	0.6	0.7	1.1	1.3	1.4	1.6	1.6	1.5
Prenatal visits											
1-4	1.8	1.7	1.7	2.0	2.1	2.6	2.7	2.8	3.1	3.2	3.7
≥5	97.3	97.5	97.1	97.1	97.1	94.8	94.5	94.0	93.8	94.0	92.6
≥9	86.4	87.6	86.9	87.3	87.2	83.7	83.2	82.2	82.0	81.5	78.8
≥13	35.0	37.4	39.7	41.2	41.9	36.6	36.2	35.5	37.3	36.8	33.1
Medical risks/											
Complications^b	48.1	49.5	46.1	50.6	55.1	32.8	35.4	37.9	39.7	40.3	43.3
Gestational Age^c											
Preterm (<37 weeks)	9.9	9.2	9.1	8.7	8.4	8.6	8.6	8.5	8.6	8.9	8.7
Birth weight											
<2,500 grams	6.9	6.7	6.7	6.5	6.4	6.8	6.6	6.8	7.0	7.1	6.8
<1,500 grams	1.1	0.9	1.1	1.0	1.0	1.1	1.0	1.1	1.0	1.1	1.0
Child's sex											
Male	51.2	51.4	51.1	51.3	51.3	51.3	51.6	50.9	50.7	51.5	51.7
Female	48.8	48.6	48.9	48.7	48.7	48.7	48.4	49.1	49.3	48.5	48.3
Plurality											
Multiple births	3.4	3.5	3.5	3.4	3.6	3.7	3.4	3.8	3.9	3.7	3.5
Caesarean delivery											
	29.5	29.1	29.4	28.7	28.4	28.8	28.1	28.0	27.2	27.4	27.8
Place of delivery											
Hospital ^d	97.6	97.7	97.4	97.4	97.6	97.4	97.2	96.9	96.9	96.8	97.0
Attendant at birth											
Midwife ^e	4.5	4.8	4.9	6.0	6.5	12.6	14.1	15.1	15.6	15.4	16.4
Previous live births											
1 or more	59.4	59.6	59.2	59.6	60.5	60.9	61.5	62.2	61.7	62.0	61.3

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

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

^e Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-7
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS^a, ARIZONA, 2009-2019
(WHITE NON-HISPANIC MOTHERS)**

Characteristic	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Number of LBW births	2,727	2,579	2,586	2,505	2,459	2,715	2,538	2,585	2,507	2,463	2,331
Age of mother											
≤19 years	8.7	7.1	6.8	6.5	5.2	4.8	5.5	4.3	4.4	3.7	3.3
≥30 years	43.2	43.6	44.8	45.5	42.5	47.5	47.8	49.5	49.9	54.1	50.6
Marital status											
Unmarried	33.5	34.7	36.2	37.2	36.9	37.9	39.9	35.8	37.5	37.0	39.3
Mother's education											
<9 years	1.1	1.1	1.5	1.4	1.6	1.1	0.9	0.8	0.7	1.0	0.9
Prenatal care began											
1st Trimester	86.8	86.1	86.4	84.2	83.9	69.4	71.1	70.9	71.5	70.8	69.5
3rd Trimester	1.9	2.1	1.4	2.0	2.2	3.2	3.0	3.8	3.7	3.8	3.9
No Care	1.9	2.2	1.7	2.2	1.6	3.4	3.9	3.6	3.8	5.0	4.4
Prenatal visits											
1-4	5.3	4.5	4.5	6.1	5.6	6.0	7.8	7.0	8.0	8.7	8.6
≥5	92.4	92.9	92.5	91.1	92.4	88.7	85.3	86.0	85.5	82.8	83.0
≥9	70.6	74.4	71.5	71.4	70.6	67.4	64.3	63.5	61.1	57.3	56.6
≥13	30.5	34.3	34.6	31.7	33.0	28.4	24.0	25.3	25.5	24.8	21.4
Medical risks/ Complications^b	71.5	73.2	72.2	74.2	75.2	60.4	58.6	62.3	64.5	67.5	64.8
Gestational age^c											
Preterm (<37 weeks)	71.7	69.5	70.9	71.4	70.7	68.7	70.0	69.4	66.5	70.8	67.8
Birth weight											
<1,500 grams	15.5	13.3	16.7	16.1	15.3	16.4	8.8	15.6	13.6	15.1	14.2
<1,000 grams	6.9	5.7	7.6	7.6	6.9	7.3	6.3	7.0	6.1	7.2	5.8
Child's sex											
Male	46.3	45.4	47.1	46.7	49.3	47.0	46.7	45.9	45.8	46.7	48.8
Female	53.7	54.6	52.9	53.3	50.7	53.0	53.3	54.1	54.2	53.3	51.2
Plurality											
Multiple births	26.7	29.2	29.1	28.8	29.7	30.3	27.2	30.6	27.3	30.1	27.5
Caesarean delivery	50.5	51.1	50.9	52.5	49.5	52.2	52.2	52.3	49.3	51.1	51.6
Place of delivery											
Hospital ^d	99.7	99.5	99.2	99.4	99.6	99.5	99.3	99.2	99.0	99.4	99.3
Attendant at birth											
Midwife ^e	1.1	1.1	1.0	1.3	1.7	11.4	11.9	12.8	13.3	14.0	14.5
Previous live births											
1 or more	56.7	58.2	56.2	57.9	56.8	58.8	56.5	59.1	57.1	59.9	57.4

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

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

^e Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-8
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS^a, ARIZONA, 2009-2019
(HISPANIC OR LATINO MOTHERS)**

Characteristic	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Number of births	38,362	34,333	32,398	33,146	33,075	33,715	34,264	33,874	33,191	32,995	32,575
Age of mother											
≤19 years	16.5	15.6	14.3	14.0	12.3	11.3	9.9	9.3	9.0	8.5	8.0
≥30 years	28.4	29.4	29.8	30.2	30.6	31.9	32.3	32.5	33.3	33.6	34.5
Marital status											
Unmarried	56.9	56.2	56.6	57.2	57.1	56.1	56.2	55.8	55.1	54.7	55.0
Mother's education											
<9 years	12.3	10.7	9.3	8.7	7.6	7.5	6.7	6.2	5.5	5.3	5.0
Prenatal care began											
1st Trimester	74.1	76.6	76.5	78.2	76.2	60.5	63.6	63.9	63.4	63.8	64.2
3rd Trimester	4.4	4.1	4.1	4.3	5.0	6.9	6.9	7.4	6.8	7.7	8.4
No Care	2.9	2.6	2.5	1.9	2.1	3.2	3.0	3.4	4.1	3.7	3.4
Prenatal visits											
1-4	4.5	4.2	4.4	4.5	4.8	5.4	5.3	5.6	5.3	6.1	6.7
≥5	92.4	93.0	92.7	93.3	93.0	90.2	90.9	89.9	88.8	89.0	88.5
≥9	73.4	75.0	76.3	77.0	77.0	73.5	73.0	72.0	71.6	70.3	68.6
≥13	26.3	27.2	28.8	29.1	29.0	26.2	26.1	25.8	26.8	26.9	26.7
Medical risks/ Complications^b	46.4	48.0	44.2	52.6	54.6	34.2	40.0	41.6	43.0	45.2	47.6
Gestational age^c											
Preterm (<37 weeks)	9.7	9.5	9.1	9.4	9.3	9.2	9.0	9.2	9.3	9.5	9.2
Birth weight											
<2,500 grams	6.6	6.8	6.4	6.8	6.6	6.7	6.9	7.1	7.0	7.2	7.0
<1,500 grams	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.1
Child's sex											
Male	51.1	50.5	51.4	51.2	51.3	51.3	50.9	50.9	50.6	51.1	50.7
Female	48.9	49.5	48.6	48.8	48.7	48.7	49.1	49.1	49.4	48.9	49.3
Plurality											
Multiple births	2.2	2.3	2.1	2.1	2.4	2.2	2.4	2.5	2.6	2.8	2.2
Caesarean delivery	25.8	25.9	26.1	26.0	26.7	26.1	26.3	26.3	25.6	26.7	26.9
Place of delivery											
Hospital ^d	99.7	99.7	99.6	99.6	99.6	99.5	99.5	99.4	99.3	99.3	99.3
Attendant at birth											
Midwife ^e	6.0	5.7	5.3	6.1	5.9	7.4	9.8	10.9	11.8	11.4	12.1
Previous live births											
1 or more	67.2	66.9	66.6	66.2	67.0	67.4	67.1	67.7	66.8	65.9	65.7

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

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

^e Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-9
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS^a, ARIZONA, 2009-2019
(HISPANIC OR LATINO MOTHERS)**

Characteristic	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Number of LBW births	2,546	2,342	2,075	2,256	2,199	2,247	2,364	2,400	2,339	2,378	2,276
Age of mother											
≤19 years	18.1	17.1	16.6	15.0	12.9	11.7	10.9	9.9	10.0	9.3	8.1
≥30 years	31.7	32.6	29.3	32.3	31.7	33.0	35.4	35.0	34.7	37.2	39.9
Marital status											
Unmarried	58.7	60.6	61.7	61.9	61.5	58.1	58.5	58.4	58.4	58.8	56.0
Mother's education											
<9 years	12.2	9.5	9.3	8.5	7.2	7.4	6.4	7.0	5.6	5.1	5.1
Prenatal care began											
1st Trimester	75.9	76.7	77.2	76.5	74.8	59.3	60.3	62.2	61.9	60.6	62.6
3rd Trimester	2.7	3.2	2.7	3.2	3.8	4.9	4.4	5.0	4.9	5.6	6.1
No Care	5.2	3.9	4.3	3.7	4.2	5.8	5.6	6.1	7.1	7.4	7.3
Prenatal visits											
1-4	9.5	9.2	9.7	10.6	9.5	10.5	9.5	10.7	10.7	10.8	13.3
≥5	85.0	86.2	85.4	85.4	85.9	82.2	83.4	80.7	79.9	78.8	77.3
≥9	58.2	58.7	59.9	59.9	63.7	55.2	54.0	52.2	52.5	48.9	49.6
≥13	21.3	21.4	23.6	21.9	24.1	16.3	15.7	16.3	17.2	16.5	17.4
Medical risks											
Complications^b	69.0	72.8	66.4	73.8	70.3	57.1	61.1	61.0	65.2	69.2	70.7
Gestational age^c											
Preterm (<37 weeks)	71.1	70.9	71.4	72.0	71.5	72.0	69.4	68.6	69.9	70.0	69.7
Birth weight											
<1,500 grams	17.1	15.6	16.6	16.8	16.7	16.6	16.2	16.3	17.9	17.4	15.9
<1,000 grams	8.4	7.3	8.9	8.2	8.0	8.9	7.7	8.1	9.1	8.3	7.9
Child's sex											
Male	48.5	47.8	46.7	51.1	49.9	49.3	48.3	50.5	48.2	49.0	48.5
Female	51.5	52.2	53.3	48.9	50.1	50.7	51.7	49.5	51.8	51.0	51.5
Plurality											
Multiple births	18.6	18.8	18.1	18.5	21.3	18.0	18.4	19.5	20.9	21.6	19.1
Caesarean delivery	42.6	42.5	44.4	43.3	46.5	42.9	45.3	45.4	44.5	48.0	49.2
Place of delivery											
Hospital ^d	99.9	99.9	99.6	99.8	99.8	99.9	99.7	99.5	99.5	100.0	99.6
Attendant at birth											
Midwife ^e	2.6	3.0	2.4	3.0	2.5	7.0	9.1	9.6	11.3	10.3	11.6
Previous live births											
1 or more	63.0	63.0	62.8	63.9	63.4	63.7	64.0	63.1	63.1	62.8	63.4

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

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

^e Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-10
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS^a, ARIZONA, 2009-2019
(BLACK OR AFRICAN AMERICAN MOTHERS)

Characteristic	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Number of births	4,378	4,328	4,366	4,715	4,726	4,522	4,361	4,388	4,595	4,655	4,865
Age of mother											
≤19 years	13.8	13.0	12.8	11.5	10.7	8.7	7.2	7.2	7.2	5.8	5.8
≥30 years	28.2	28.3	30.3	30.2	30.6	34.1	36.0	35.0	37.1	39.0	41.4
Marital status											
Unmarried	62.7	63.1	63.6	64.8	63.7	62.5	63.2	61.3	60.6	60.6	62.7
Mother's education											
<9 years	4.4	5.2	4.3	4.3	3.7	3.3	4.1	4.3	4.7	3.7	4.4
Prenatal care began											
1st Trimester	80.3	81.6	80.4	79.9	78.2	61.4	62.2	62.8	61.4	62.4	59.8
3rd Trimester	2.9	3.3	3.0	3.4	4.5	7.7	6.9	7.9	6.5	7.6	8.3
No Care	1.6	1.7	1.6	1.1	1.3	2.8	2.5	2.2	3.3	3.0	3.0
Prenatal visits											
1-4	3.6	4.1	4.0	4.5	4.7	6.2	6.4	6.3	5.6	6.4	7.2
≥5	94.5	94.0	93.4	94.1	93.8	89.7	89.9	89.6	88.2	88.8	87.7
≥9	78.6	78.4	79.1	78.5	79.1	72.1	71.5	70.2	69.2	68.2	64.5
≥13	29.5	30.4	33.6	32.7	31.0	24.7	25.4	25.7	26.3	28.3	25.8
Medical risks											
Complications^b	53.4	56.0	52.0	56.6	57.2	36.0	44.3	44.3	45.8	49.6	53.6
Gestational age^c											
Preterm (<37 weeks)	14.4	12.3	12.7	11.9	11.8	12.1	12.2	12.4	12.4	12.4	13.2
Birth weight											
<2,500 grams	12.8	11.4	12.5	11.7	11.1	11.9	12.3	12.0	12.4	12.3	12.3
<1,500 grams	2.8	2.6	2.5	2.3	2.0	2.5	2.3	2.4	2.3	2.1	2.4
Child's sex											
Male	52.0	50.8	50.5	50.5	51.8	51.9	51.5	50.7	51.8	49.0	51.7
Female	48.0	49.2	49.5	49.5	48.2	48.1	48.5	49.3	48.2	51.0	48.3
Plurality											
Multiple births	4.2	3.3	3.6	4.1	3.7	4.7	3.9	3.3	4.0	4.7	4.4
Caesarean delivery	30.9	30.7	31.1	31.9	31.4	33.0	32.8	32.4	30.8	33.7	34.1
Place of delivery											
Hospital ^d	99.6	99.5	99.3	99.6	99.3	99.5	99.6	99.1	99.0	99.1	98.8
Attendant at birth											
Midwife ^e	3.2	3.4	2.7	3.5	3.9	8.8	11.7	12.0	13.2	12.0	12.1
Previous live births											
1 or more	62.8	62.8	63.0	63.8	64.6	66.9	66.2	66.2	67.1	67.4	68.4

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

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

^e Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-11
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS^a, ARIZONA, 2009-2019
(BLACK OR AFRICAN AMERICAN MOTHERS)**

Characteristic	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Number of LBW births	559	492	546	551	523	536	535	525	572	573	596
Age of mother											
≤19 years	13.8	17.5	13.7	10.2	12.8	9.0	6.9	9.1	7.9	7.5	7.6
≥30 years	30.6	27.6	33.5	32.3	33.8	35.8	38.7	33.9	38.6	40.1	40.4
Marital status											
Unmarried	69.8	72.2	67.9	69.0	72.8	67.0	64.9	64.0	64.2	64.9	67.6
Mother's education											
<9 years	3.2	4.3	2.9	2.9	3.1	2.4	3.0	4.6	3.0	2.8	3.4
Prenatal care began											
1st Trimester	79.4	82.5	80.0	78.8	77.8	59.1	63.9	62.5	61.0	60.0	57.2
3rd Trimester	2.5	1.6	3.1	3.4	3.3	4.7	4.5	5.1	2.8	5.4	4.0
No Care	4.1	2.4	2.4	2.4	3.4	6.2	5.0	4.6	6.5	7.2	7.7
Prenatal visits											
1-4	7.3	9.3	9.5	10.3	8.6	11.2	12.9	10.9	9.3	10.8	13.1
≥5	88.0	87.8	86.3	86.0	87.2	81.2	80.4	81.0	80.6	79.1	75.3
≥9	64.0	60.4	64.1	64.4	66.7	55.2	55.7	55.6	51.6	53.9	46.8
≥13	23.8	26.6	29.3	27.6	25.2	20.1	22.2	16.0	20.1	20.9	17.1
Medical risks											
Complications^b	72.8	74.0	68.7	68.4	70.0	56.7	57.9	59.4	61.0	68.1	67.8
Gestational age^c											
Preterm (<37 weeks)	72.1	68.9	65.6	65.7	66.9	68.3	65.0	68.2	65.2	62.8	68.3
Birth weight											
<1,500 grams	22.2	23.0	20.0	20.0	18.0	21.5	18.5	20.0	18.4	16.9	19.8
<1,000 grams	10.9	12.6	10.8	10.3	10.3	12.9	10.5	11.4	11.4	9.2	10.6
Child's sex											
Male	49.7	42.3	46.0	45.7	47.2	45.9	46.9	46.1	44.9	41.7	43.5
Female	50.3	57.7	54.0	54.3	52.8	54.1	53.1	53.9	55.1	58.3	56.5
Plurality											
Multiple births	22.0	19.7	17.8	21.2	21.4	22.2	22.8	15.6	20.6	22.7	24.0
Caesarean delivery	45.6	43.9	43.4	45.6	42.8	45.9	47.9	47.6	44.8	49.7	50.8
Place of delivery											
Hospital ^d	99.6	99.4	99.8	100.0	99.0	99.8	100.0	99.6	99.5	99.7	99.2
Attendant at birth											
Midwife ^e	1.3	2.0	2.6	0.9	1.9	8.6	10.3	11.2	12.2	12.0	12.4
Previous live births											
1 or more	61.4	59.3	62.5	65.2	61.8	66.6	64.9	60.6	68.9	64.6	65.4

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

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

^e Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-12
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS^a, ARIZONA, 2009-2019
(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)

Characteristic	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Number of births	6,170	5,815	5,830	5,569	5,476	5,145	4,984	5,030	4,866	4,709	4,462
Age of mother											
≤19 years	19.0	17.0	16.9	16.0	14.2	11.7	11.4	10.7	10.7	9.8	9.2
≥30 years	23.8	24.1	25.0	25.2	26.6	26.7	28.9	31.3	31.0	34.4	34.6
Marital status											
Unmarried	76.9	77.7	77.1	78.5	79.2	78.9	79.6	78.1	77.9	78.9	78.4
Mother's education											
<9 years	2.8	2.8	2.5	2.5	2.4	2.2	2.1	1.9	1.7	1.9	1.6
Prenatal care began											
1st Trimester	66.0	69.4	68.6	68.2	68.7	58.4	58.5	60.7	59.4	56.5	57.4
3rd Trimester	7.4	6.2	6.1	7.0	6.1	7.5	8.4	8.2	8.4	9.4	9.0
No Care	2.1	2.3	2.5	2.0	2.4	2.9	4.3	4.0	4.1	5.1	5.3
Prenatal visits											
1-4	8.6	8.8	9.0	9.1	9.5	10.5	10.4	11.0	11.5	11.2	12.0
≥5	88.9	88.5	87.8	88.4	87.7	85.0	84.2	83.9	83.0	81.5	80.1
≥9	61.5	64.0	62.8	64.0	63.7	59.3	60.0	59.9	58.8	55.5	55.7
≥13	17.9	18.8	19.7	20.7	21.3	18.2	18.7	19.0	19.9	18.4	18.6
Medical risks/ Complications^b	54.3	55.3	53.8	60.4	61.7	45.9	52.4	53.5	56.1	59.2	60.4
Gestational age^c											
Preterm (<37 weeks)	9.6	10.6	9.0	9.7	9.7	8.2	9.6	9.9	10.9	10.4	10.6
Birth weight											
<2,500 grams	6.4	7.0	6.9	6.7	7.2	6.1	7.3	7.2	7.7	7.9	7.9
<1,500 grams	0.9	1.2	1.3	1.1	1.0	0.9	1.3	1.3	1.3	1.4	1.3
Child's sex											
Male	50.4	50.4	50.7	50.5	51.6	49.7	50.8	50.4	51.6	52.0	51.3
Female	49.6	49.6	49.3	49.5	48.4	50.3	49.2	49.6	48.4	48.0	48.7
Plurality											
Multiple births	1.6	1.8	1.5	1.6	1.8	1.3	1.8	2.2	2.2	2.0	2.1
Caesarean delivery	23.2	22.9	23.1	23.8	24.0	22.7	22.6	23.5	24.4	25.2	24.6
Place of delivery											
Hospital ^d	99.7	99.6	99.6	99.7	99.7	99.7	99.4	99.5	99.5	99.2	99.5
Attendant at birth											
Midwife ^e	27.6	28.6	27.9	27.8	27.6	10.6	9.1	9.8	10.0	10.0	10.0
Previous live births											
1 or more	66.6	67.3	66.5	67.6	68.5	70.0	71.0	71.4	70.5	71.2	70.5

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

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

^e Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-13
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS^a, ARIZONA, 2009-2019
(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)**

Characteristic	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Number of LBW births	396	406	403	372	393	315	365	363	376	373	353
Age of mother											
≤19 years	18.2	15.3	18.9	18.0	10.2	10.8	10.1	8.5	10.4	9.4	6.2
≤30 years	28.8	29.6	26.8	33.1	29.5	30.8	34.5	35.5	38.0	42.9	41.6
Marital status											
Unmarried	79.3	75.4	81.1	80.9	82.2	78.4	81.9	75.2	79.8	80.7	79.9
Mother's education											
<9 years	2.5	3.0	2.0	3.2	5.1	2.9	3.6	1.1	2.9	2.4	2.3
Prenatal care began											
1st Trimester	65.2	69.7	70.0	69.1	66.9	46.7	48.5	54.0	54.0	45.0	47.3
3rd Trimester	5.8	4.2	4.0	4.3	8.4	5.1	6.6	6.3	4.3	5.9	4.2
No Care	4.3	6.7	6.7	5.9	4.3	8.6	13.7	9.9	10.1	17.2	19.3
Prenatal visits											
1-4	12.1	13.5	11.4	15.1	17.6	15.6	15.3	18.5	15.2	17.7	18.7
≥5	81.8	78.8	79.7	78.2	76.8	72.7	66.6	69.4	70.5	59.5	58.4
≥9	52.0	47.8	47.4	51.6	50.6	40.6	40.5	41.3	40.2	28.7	34.0
≥13	16.9	15.5	13.9	16.4	15.3	10.2	11.2	12.9	14.9	8.8	10.2
Medical risks/ Complications^b	69.4	74.4	65.5	70.2	71.2	65.7	68.5	70.8	71.3	77.2	85.0
Gestational age^c											
Preterm (<37 weeks)	69.7	74.9	69.0	79.0	70.7	65.1	69.9	71.1	72.1	68.1	70.3
Birth weight											
<1,500 grams	14.4	16.7	18.4	16.7	13.7	14.6	18.1	17.6	16.8	17.4	16.1
<1,000 grams	8.1	7.4	9.2	8.9	4.6	7.9	8.5	7.7	6.4	8.3	6.5
Child's sex											
Male	48.2	54.9	46.4	49.2	51.4	44.4	45.8	52.1	50.3	49.9	43.6
Female	51.8	45.1	53.6	50.8	48.6	55.6	54.2	47.9	49.7	50.1	56.4
Plurality											
Multiple births	13.1	15.5	11.7	15.6	12.7	9.8	13.4	17.4	10.6	13.1	13.9
Caesarean delivery	39.4	44.6	34.5	47.3	44.3	41.9	43.8	43.3	47.3	42.9	49.0
Place of delivery											
Hospital ^d	99.5	99.8	99.5	99.7	100.0	100.0	98.6	99.2	99.2	98.4	99.7
Attendant at birth											
Midwife ^e	11.1	11.1	10.7	8.9	11.5	10.2	7.9	8.5	11.4	8.6	8.8
Previous live births											
1 or more	64.1	67.2	64.3	69.6	68.7	69.8	70.4	69.7	68.4	71.3	72.5

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

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

^e Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-14
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS^a, ARIZONA, 2009-2019
(ASIAN OR PACIFIC ISLANDER MOTHERS)**

Characteristic	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Number of births	3,396	3,293	3,505	3,625	3,466	3,169	3,235	3,350	3,327	3,271	3,163
Age of mother											
≤19 years	2.6	3.1	3.2	2.2	2.3	1.8	1.9	1.5	1.7	1.3	1.3
≥30 years	55.6	55.9	57.4	57.3	59.2	60.4	60.5	60.8	61.9	65.1	65.6
Marital status											
Unmarried	15.8	17.4	17.3	17.3	16.0	15.2	14.3	15.4	14.6	14.8	14.8
Mother's education											
<9 years	2.2	3.3	3.1	3.1	2.7	3.0	3.1	3.0	2.9	3.0	2.3
Prenatal care began											
1st Trimester	88.1	88.1	86.5	87.1	86.4	70.5	71.8	73.2	72.2	72.5	73.2
3rd Trimester	1.9	2.3	2.3	2.0	2.9	4.5	5.0	4.3	4.7	5.0	6.5
No Care	1.3	1.2	1.0	0.7	0.7	1.4	1.2	1.3	1.9	1.9	1.3
Prenatal visits											
1-4	2.1	1.9	2.3	2.4	2.6	2.6	3.6	3.1	2.8	3.3	3.9
≥5	96.4	96.7	96.2	96.8	96.6	94.5	93.9	93.7	93.9	93.6	93.2
≥9	85.6	86.7	84.2	86.2	85.6	82.3	80.6	79.8	81.2	79.0	77.3
≥13	35.6	36.0	37.9	37.2	39.2	33.7	31.6	29.9	34.7	33.5	32.2
Medical risks/ Complications^b	48.1	51.5	47.4	52.9	57.4	37.9	42.2	44.4	47.0	47.1	49.4
Gestational age^c											
Preterm (<37 weeks)	10.0	9.9	9.0	8.4	8.9	8.0	9.4	8.7	9.6	10.0	9.5
Birth weight											
<2,500 grams	8.8	8.5	8.3	7.2	7.9	8.1	9.0	9.3	9.5	9.8	8.6
<1,500 grams	1.5	1.4	1.1	0.8	1.1	1.2	1.2	1.4	1.1	1.2	1.0
Child's sex											
Male	51.7	50.7	52.4	52.1	51.4	51.5	51.5	51.7	51.3	51.2	51.9
Female	48.3	49.3	47.6	47.9	48.6	48.5	48.5	48.3	48.7	48.8	48.1
Plurality											
Multiple births	2.9	2.5	3.3	2.5	3.2	3.2	3.3	3.7	3.4	3.0	3.2
Caesarean delivery	32.6	32.8	33.0	32.1	33.2	32.4	34.0	32.5	32.3	30.9	31.0
Place of delivery											
Hospital ^d	99.4	99.6	99.3	99.2	99.1	99.3	99.4	99.3	99.3	99.1	98.8
Attendant at birth											
Midwife ^e	3.0	2.8	3.1	4.0	3.3	10.0	10.4	11.1	11.8	11.4	13.5
Previous live births											
1 or more	54.8	55.5	54.6	55.5	56.2	53.4	54.0	54.1	56.6	56.3	56.7

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

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

^e Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-15
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,
AND BIRTH COMPLICATIONS^a, ARIZONA, 2009-2019
(ASIAN OR PACIFIC ISLANDER MOTHERS)**

Characteristic	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Number of LBW births	299	280	292	262	275	256	291	313	315	319	273
Age of mother											
≤19 years	3.3	5.4	5.1	5.0	1.5	1.2	1.7	1.0	1.9	2.2	1.8
≤30 years	54.8	52.1	58.6	64.9	66.2	64.1	61.5	63.3	63.5	69.3	66.7
Marital status											
Unmarried	20.4	18.9	18.2	18.3	12.4	14.1	15.1	13.7	17.1	17.9	13.2
Mother's education											
<9 years	1.7	3.2	4.1	3.8	3.6	4.3	2.7	3.2	2.9	3.1	1.5
Prenatal care began											
1st Trimester	87.0	84.3	83.9	87.8	86.9	70.3	72.9	74.4	74.0	70.2	76.2
3rd Trimester	3.0	2.9	2.1	0.4	3.6	4.7	3.8	2.9	2.5	4.1	5.1
No Care	2.0	1.4	2.7	0.8	0.7	3.5	2.7	2.9	2.5	4.7	1.8
Prenatal visits											
1-4	7.4	6.8	4.8	2.3	6.2	4.7	8.6	7.0	4.4	7.2	5.9
≥5	90.0	91.4	92.5	96.9	93.1	88.7	86.9	87.2	92.1	85.9	91.2
≥9	72.6	70.7	72.9	78.6	73.5	66.8	64.6	67.7	70.5	58.9	64.8
≥13	34.4	27.1	30.8	32.8	31.6	25.4	29.6	22.0	28.3	22.3	29.7
Medical risks/ Complications^b	70.2	74.3	68.8	72.5	73.8	54.7	56.0	61.0	67.9	64.9	63.0
Gestational age^c											
Preterm (<37 weeks)	66.2	65.4	64.7	63.0	61.1	60.2	60.1	60.7	61.9	63.9	63.0
Birth weight											
<1,500 grams	17.4	16.4	12.7	11.5	13.5	15.2	13.1	15.3	11.7	11.9	11.7
<1,000 grams	8.7	7.9	6.2	5.3	6.2	6.6	6.5	8.6	6.0	5.3	6.2
Child's sex											
Male	50.2	45.0	46.9	52.7	46.5	49.2	48.8	45.4	46.0	44.2	53.5
Female	49.8	55.0	53.1	47.3	53.5	50.8	51.2	54.6	54.0	55.8	46.5
Plurality											
Multiple births	22.4	18.9	25.7	20.2	23.6	24.2	25.1	24.0	20.3	20.4	20.9
Caesarean delivery	51.5	45.4	51.4	44.3	53.1	47.7	51.5	47.0	50.8	48.3	44.7
Place of delivery											
Hospital ^d	100.0	100.0	99.7	100.0	100.0	100.0	100.0	99.7	99.7	99.7	98.5
Attendant at birth											
Midwife ^e	1.7	1.1	0.3	2.7	2.2	12.1	12.0	8.6	12.4	9.4	15.4
Previous live births											
1 or more	48.8	49.6	55.5	53.1	56.4	46.9	54.6	50.8	47.6	52.7	52.0

Notes: ^a Rates per 100 births.

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

^c Physician's estimate.

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

^e Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-16
SINGLE AND PLURAL LIVE BIRTHS BY BIRTHWEIGHT, ARIZONA RESIDENTS, 2009-2019**

Weight in grams	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Under 1,000, total	523	439	496	480	433	509	448	492	472	476	419
Single	431	346	379	383	332	384	358	380	375	383	319
Plural	92	93	117	97	101	125	90	112	97	93	100
1,000-1,499, total	577	505	505	506	494	509	523	519	492	509	483
Single	420	386	374	387	341	379	386	395	369	358	361
Plural	157	119	131	119	153	130	137	124	123	151	122
1,500-1,999, total	1,211	1,194	1,131	1,197	1,152	1,156	1,133	1,166	1,105	1,257	1,134
Single	835	823	794	814	830	803	793	808	784	837	795
Plural	376	371	337	383	322	353	340	358	321	420	339
2,000-2,499, total	4,262	4,017	3,817	3,763	3,770	3,895	3,988	4,009	4,040	3,864	3,793
Single	3,432	3,178	3,043	2,994	2,920	3,063	3,186	3,124	3,186	3,028	3,030
Plural	830	839	774	769	850	832	802	885	854	836	763
2,500-3,999, total	79,423	74,680	72,777	73,096	72,494	73,627	72,240	71,613	69,200	68,157	67,354
Single	78,297	73,596	71,741	72,085	71,377	72,449	71,109	70,450	67,940	67,032	66,337
Plural	1,126	1,084	1,036	1,011	1,117	1,178	1,131	1,163	1,260	1,125	1,017
4,000 and over, total	6,601	6,200†	6,450†	6,680†	6,540†	6,900†	6,630†	6,570†	6,310†	6,240†	5,950†
Single	6,601	6,194	6,450	6,674	6,537	6,900	6,633	6,569	6,310	6,234	5,951
Plural	0	*	*	*	*	*	*	*	*	*	*
All weights, total^a	92,616	87,053	85,190	85,725	84,963	86,648	85,024	84,404	81,664	80,539	79,183
Single	90,034	84,535	82,793	83,342	82,415	84,014	82,501	81,752	79,005	77,909	76,837
Plural	2,582	2,510†	2,400†	2,380†	2,550†	2,630†	2,518	2,647	2,657	2,630	2,343

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, 2009-2019**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2009	7,784	7,333	8,069	7,371	7,464	7,377	8,060	8,194	8,097	7,872	7,267	7,728	92,616
Percent	8.4	7.9	8.7	8.0	8.1	8.0	8.7	8.8	8.7	8.5	7.8	8.3	100.0
2010	7,342	6,812	7,521	6,886	6,989	6,982	7,153	7,637	7,977	7,331	7,038	7,378	87,053 ^a
Percent	8.4	7.8	8.6	7.9	8.0	8.0	8.2	8.8	9.2	8.4	8.1	8.5	100.0
2011	7,127	6,500	7,254	6,498	6,678	7,086	7,222	7,688	7,750	7,361	6,987	7,039	85,190
Percent	8.4	7.6	8.5	7.6	7.8	8.3	8.5	9.0	9.1	8.6	8.2	8.3	100.0
2012	7,006	6,732	7,100	6,603	6,777	6,725	7,368	7,772	7,689	7,629	7,101	7,223	85,725
Percent	8.2	7.9	8.3	7.7	7.9	7.8	8.6	9.1	9.0	8.9	8.3	8.4	100.0
2013	7,090	6,414	7,083	6,694	6,681	6,685	7,337	7,436	7,538	7,515	7,130	7,360	84,963
Percent	8.3	7.5	8.3	7.9	7.9	7.9	8.6	8.8	8.9	8.8	8.4	8.7	100.0
2014	7,313	6,593	7,068	6,672	6,893	6,856	7,731	7,718	7,651	7,554	6,994	7,605	86,648
Percent	8.4	7.6	8.2	7.7	8.0	7.9	8.9	8.9	8.8	8.7	8.1	8.8	100.0
2015	7,169	6,660	7,175	6,613	6,814	6,770	7,030	7,372	7,685	7,487	6,940	7,309	85,024
Percent	8.4	7.8	8.4	7.8	8.0	8.0	8.3	8.7	9.0	8.8	8.2	8.6	100.0
2016	7,053	6,729	6,830	6,558	6,724	6,754	7,045	7,711	7,687	7,192	6,898	7,223	84,404
Percent	8.4	8.0	8.1	7.8	8.0	8.0	8.3	9.1	9.1	8.5	8.2	8.6	100.0
2017	6,931	6,147	6,774	6,285	6,507	6,613	6,964	7,402	7,200	7,299	6,791	6,751	81,664
Percent	8.5	7.5	8.3	7.7	8.0	8.1	8.5	9.1	8.8	8.9	8.3	8.3	100.0
2018	6,706	6,177	6,614	6,129	6,409	6,473	6,835	7,294	7,108	7,144	6,815	6,835	80,539
Percent	8.3	7.7	8.2	7.6	8.0	8.0	8.5	9.1	8.8	8.9	8.5	8.5	100.0
2019	6,811	6,070	6,651	6,078	6,267	6,154	6,940	7,192	6,858	6,872	6,577	6,713	79,183
Percent	8.6	7.7	8.4	7.7	7.9	7.8	8.8	9.1	8.7	8.7	8.3	8.5	100.0

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

**TABLE 1B-18
BIRTHS BY DAY AND MONTH OF OCCURRENCE, ARIZONA RESIDENTS, 2019**

TOTAL	Month of birth												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
TOTAL	79,183	6,811	6,070	6,651	6,078	6,267	6,154	6,940	7,192	6,858	6,872	6,577	6,713
Day of birth	1	192	248	239	218	246	189	244	247	183	259	242	198
	2	239	191	179	231	202	162	230	248	166	238	222	230
	3	248	167	176	197	263	207	247	211	245	253	173	223
	4	230	203	223	228	181	228	208	183	247	250	233	223
	5	203	257	238	222	159	215	216	251	268	204	260	241
	6	206	220	247	180	187	219	167	226	270	165	259	231
	7	199	224	248	183	233	245	167	233	185	235	260	188
	8	224	229	240	217	197	186	235	220	183	266	230	195
	9	201	194	181	232	206	144	229	275	259	230	189	215
	10	234	162	179	219	213	225	247	210	257	223	159	215
	11	247	234	219	212	158	201	227	185	253	241	219	228
	12	185	246	229	214	143	196	231	217	244	195	259	237
	13	174	247	182	160	190	240	194	231	241	190	235	213
	14	232	244	249	168	218	235	161	247	211	220	232	196
	15	225	251	232	183	222	183	215	258	181	240	232	170
	16	263	192	184	213	217	180	237	238	215	236	191	194
	17	246	194	191	229	207	197	253	215	257	215	184	246
	18	244	228	203	211	194	219	243	184	272	231	227	241
	19	181	231	221	222	156	248	274	228	256	192	244	289
	20	177	231	239	165	193	212	200	261	253	159	233	234
	21	215	263	252	145	204	221	183	244	224	230	239	200
	22	234	210	241	219	192	179	231	260	158	215	248	178
	23	258	182	186	219	221	152	245	258	236	243	182	232
	24	228	140	155	213	205	208	244	184	252	228	169	206
	25	249	229	238	222	207	245	271	191	249	236	236	133
	26	180	216	215	224	153	206	236	234	270	180	258	198
	27	190	234	228	166	174	239	196	253	256	160	232	273
	28	240	203	244	133	220	226	178	264	183	232	157	234
	29	223		221	205	240	187	253	258	158	247	183	192
	30	237		201	228	217	160	239	249	226	225	190	218
	31	207		171		249		239	229		234		242

**TABLE 1B-19
LIVE BIRTHS BY MOTHER'S AGE AND FATHER'S AGE, ARIZONA, 2019**

Father's age group	Mother's age group										
	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known	TOTAL
<15	*	*	0	0	0	0	0	0	0	0	0†
15-17	6	233	104	12	*	0	0	0	0	0	360†
18-19	*	307	790	385	21	8	0	*	0	0	1,510†
20-24	0	111	1,203	7,182	1,335	213	47	8	0	0	10,099
25-29	0	14	194	4,860	11,051	1,940	339	49	*	*	18,450†
30-34	0	*	48	1,215	6,812	9,740	1,669	155	*	0	19,650†
35-39	0	*	19	360	1,822	5,334	4,490	464	13	0	12,500†
40-44	0	0	*	123	526	1,376	2,150	808	24	0	5,010†
45-49	0	0	*	48	177	417	674	386	68	0	1,780†
50-54	0	0	0	18	74	127	189	103	25	*	537
55+	0	0	0	14	35	73	81	54	14	*	272
Unknown	28	458	791	2,639	2,433	1,606	819	218	26	0	9,018
TOTAL	40†	1,130†	3,160†	16,856	24,290†	20,834	10,458	2,250†	180†	0†	79,183

**TABLE 1B-20
LIVE BIRTHS BY MOTHER'S RACE/ETHNICITY AND FATHER'S RACE/ETHNICITY, ARIZONA, 2019**

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	27,500	9,253	1,661	1,257	836	40,507
Hispanic or Latino	4,808	21,749	298	595	232	27,682
Black or African American	1,092	1,033	2,870	102	81	5,178
American Indian or Alaska Native	274	314	15	2,485	19	3,107
Asian or Pacific Islander	444	226	21	23	1,995	2,709
TOTAL	34,118	32,575	4,865	4,462	3,163	79,183

**TABLE 1B-21
LIVE BIRTHS BY MOTHER'S AND FATHER'S EDUCATION, ARIZONA, 2019**

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	850	526	493	201	129	67	10	8	2,284
Some High School	382	3,291	2,858	1,379	393	225	59	15	8,602
High School/ GED	323	2,612	9,490	4,777	1,566	1,523	460	34	20,785
Some College	95	786	3,008	6,404	1,636	2,415	824	19	15,187
Associate Degree	40	185	909	1,436	1,176	1,274	435	8	5,463
Bachelor's Degree	26	141	860	1,622	1,014	5,335	2,199	15	11,212
Postgraduate Education	12	34	253	525	397	2,325	2,511	13	6,070
Unknown	505	2,661	3,330	1,849	480	300	135	320	9,580
TOTAL	2,233	10,236	21,201	18,193	6,791	13,464	6,633	432	79,183

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; 432 cases were missing mother's education and 9,580 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, 2019**

			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	42,686	0	35	372	5,358	13,431	14,415	7,450	1,518	107	0
		Percent	53.9%	0.0%	3.1%	11.8%	31.8%	55.3%	69.2%	71.2%	67.6%	60.8%	0.0%
	Unmarried	Count	35,610†	36	1,093	2,778	11,387	10,591	6,165	2,851	666	42	*
		Percent	45.0%	100.0%	96.8%	88.0%	67.6%	43.6%	29.6%	27.3%	29.7%	23.9%	**
	Unknown	Count	890†	0	*	8	111	265	254	157	62	27	*
		Percent	1.1%	0.0%	**	0.3%	0.7%	1.1%	1.2%	1.5%	2.8%	15.3%	**
TOTAL	Count	79,180†	36	1,129	3,158	16,856	24,287	20,834	10,458	2,246	176	*	
	Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**	
White non- Hispanic	Married	Count	23,021	0	10	112	2,434	7,164	8,284	4,146	810	61	0
		Percent	67.5%	0.0%	4.7%	14.3%	42.1%	68.2%	79.5%	79.1%	75.6%	60.4%	0.0%
	Unmarried	Count	10,690†	*	204	665	3,309	3,233	2,024	1010	224	16	*
		Percent	31.3%	**	95.3%	85.1%	57.2%	30.8%	19.4%	19.3%	20.9%	15.8%	**
	Unknown	Count	410†	0	0	*	41	106	107	86	37	24	*
		Percent	1.2%	0.0%	0.0%	**	0.7%	1.0%	1.0%	1.6%	3.5%	23.8%	**
TOTAL	Count	34,120†	*	214	781	5,784	10,503	10,415	5,242	1,071	101	*	
	Percent	100.0%	**	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**	
Hispanic or Latino	Married	Count	14,318	0	24	230	2,481	4,846	4,097	2,146	469	25	0
		Percent	44.0%	0.0%	3.4%	12.4%	28.9%	47.7%	58.6%	62.9%	58.1%	54.3%	0.0%
	Unmarried	Count	17,905	22	686	1,627	6,041	5,189	2,783	1,215	323	19	0
		Percent	55.0%	100.0%	96.5%	87.4%	70.4%	51.1%	39.8%	35.6%	40.0%	41.3%	0.0%
	Unknown	Count	350†	0	*	*	57	115	108	50	15	*	0
		Percent	1.1%	0.0%	**	**	0.7%	1.1%	1.5%	1.5%	1.9%	**	0.0%
TOTAL	Count	32,575	22	711	1,861	8,579	10,150	6,988	3,411	807	46	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	1,761	0	0	15	198	486	607	365	82	8	0
		Percent	36.2%	0.0%	0.0%	7.4%	18.2%	32.7%	50.1%	55.8%	60.3%	72.7%	0.0%
	Unmarried	Count	3,050†	*	73	188	882	981	587	282	50	*	0
		Percent	62.7%	**	100.0%	92.6%	81.1%	66.0%	48.5%	43.1%	36.8%	**	0.0%
	Unknown	Count	60†	0	0	0	7	19	17	7	*	*	0
		Percent	1.1%	0.0%	0.0%	0.0%	0.6%	1.3%	1.4%	1.1%	**	**	0.0%
TOTAL	Count	4,870†	*	73	203	1,087	1,486	1,211	654	136	11	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	900†	0	*	8	111	276	307	165	36	0	0
		Percent	20.3%	0.0%	**	2.9%	9.7%	20.3%	30.6%	36.5%	40.9%	0.0%	0.0%
	Unmarried	Count	3,500†	6	123	272	1,034	1,060	675	277	48	*	0
		Percent	78.4%	100.0%	99.2%	97.1%	90.0%	78.1%	67.4%	61.3%	54.5%	**	0.0%
	Unknown	Count	60†	0	0	0	*	22	20	10	*	0	0
		Percent	1.3%	0.0%	0.0%	0.0%	**	1.6%	2.0%	2.2%	**	0.0%	0.0%
TOTAL	Count	4,460†	6	124	280	1,149	1,358	1,002	452	88	*	0	
	Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**	0.0%	
Asian or Pacific Islander	Married	Count	2,682	0	0	7	134	659	1,120	628	121	13	0
		Percent	84.8%	0.0%	0.0%	21.2%	52.1%	83.4%	92.0%	89.8%	84.0%	86.7%	0.0%
	Unmarried	Count	470†	0	7	26	121	128	96	67	21	*	0
		Percent	14.8%	0.0%	100.0%	78.8%	47.1%	16.2%	7.9%	9.6%	14.6%	**	0.0%
	Unknown	Count	10†	0	0	0	*	*	*	*	*	0	0
		Percent	0.4%	0.0%	0.0%	0.0%	**	**	**	**	**	0.0%	0.0%
TOTAL	Count	3,163	0	7	33	257	790	1,218	699	144	15	0	
	Percent	100.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%	

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

**TABLE 1B-23
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND NUMBER OF
PREVIOUS LIVE BIRTHS, ARIZONA, 2019**

	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	79,183	36	1,129	3,160†	16,856	24,287	20,834	10,458	2,246	176	0†
	None	28,551	36	1,063	2,645	8,902	8,071	5,389	2,032	365	47	*
	1	23,792	0	60	462	5,480	7,948	6,326	2,943	535	37	*
	2	14,236	0	6	47	1,856	5,044	4,564	2,256	443	20	0
	3	6,990†	0	0	*	470	2,053	2,607	1,486	347	19	0
	4 or more	5,593	0	0	0	141	1,167	1,939	1,738	556	52	0
	Unknown	30†	0	0	*	7	*	9	*	0	*	*
White non- Hispanic	TOTAL	34,120†	0†	210†	780†	5,784	10,503	10,415	5,242	1,071	101	0†
	None	13,170†	*	203	671	3,378	4,177	3,215	1,266	225	32	*
	1	10,886	0	10	99	1,762	3,517	3,476	1,693	306	22	*
	2	5,680†	0	*	9	512	1,866	2,046	1,035	193	13	0
	3	2,590†	0	0	*	100	660	1,050	631	136	8	0
	4 or more	1,779	0	0	0	26	282	621	614	211	25	0
	Unknown	20†	0	0	*	6	*	7	*	0	*	*
Hispanic or Latino	TOTAL	32,575	22	710†	1,860†	8,579	10,150	6,988	3,411	807	46	0
	None	11,158	22	670	1,560	4,296	2,776	1,305	443	80	6	0
	1	9,350	0	37	275	2,907	3,398	1,850	727	149	7	0
	2	6,450†	0	*	24	1,029	2,446	1,875	896	174	6	0
	3	3,190†	0	0	*	266	989	1,128	636	162	10	0
	4 or more	2,415	0	0	0	80	539	828	709	242	17	0
	Unknown	10†	0	0	0	*	*	*	0	0	0	0
Black or African American	TOTAL	4,870†	0†	70†	203	1,087	1,486	1,211	654	136	10†	0
	None	1,540†	*	70	161	548	411	239	88	12	*	0
	1	1,270†	0	*	35	324	434	297	152	21	*	0
	2	930†	0	*	7	148	337	277	123	36	0	0
	3	536	0	0	0	52	172	196	96	20	0	0
	4 or more	596	0	0	0	15	131	202	195	47	6	0
	Unknown	0†	0	0	0	0	*	0	0	0	0	0
American Indian or Alaska Native	TOTAL	4,460†	6	124	280	1,149	1,358	1,002	452	88	0†	0
	None	1,316	6	113	225	536	269	115	43	9	0	0
	1	1,095	0	11	48	406	364	194	60	12	0	0
	2	820	0	0	7	143	320	253	84	13	0	0
	3	537	0	0	0	45	208	186	84	14	0	0
	4 or more	690†	0	0	0	19	197	254	181	40	*	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0
Asian or Pacific Islander	TOTAL	3,163	0	7	30†	260†	790	1,218	699	144	20†	0
	None	1,369	0	7	28	144	438	515	192	39	6	0
	1	1,190†	0	0	*	81	235	509	311	47	6	0
	2	360†	0	0	0	24	75	113	118	27	*	0
	3	130†	0	0	0	7	24	47	39	15	*	0
	4 or more	110†	0	0	0	*	18	34	39	16	*	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0

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

**TABLE 1B-24
CHANGES FROM 2009 TO 2019 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								
	2009	2019	% Change	2009	2019	% Change	2009	2019	% Change	2009	2019	% Change	2009	2019	% Change						
Number of births^b	79,046	68,797	-13.0	13,570	10,368	-23.6	39,781	34,118	-14.2	38,362	32,575	-15.1	4,378	4,865	11.1	6,170	4,462	-27.7	3,396	3,163	-6.9
Per 100 births:																					
Teenage mother^c	11.2	5.2	-53.6	15.4	6.9	-55.2	6.8	2.9	-57.4	16.5	8.0	-51.5	13.8	5.8	-58.0	19.0	9.2	-51.6	2.6	1.3	-50.0
Unwed mother^d	54.7	43.9	-19.7	48.1	52.2	8.5	29.7	31.3	5.5	56.9	55.0	-3.3	62.7	62.7	0.0	76.9	78.4	2.0	15.8	14.8	-6.3
Early prenatal care^e	81.5	69.9	-14.2	73.3	62.4	-14.9	87.9	75.8	-13.8	74.1	64.2	-13.4	80.3	59.8	-25.5	66.0	57.4	-13.0	88.1	73.2	-16.9
0-4 prenatal visits	4.9	7.7	57.1	2.1	11.4	442.9	2.5	5.2	108.0	7.4	10.0	35.1	5.2	10.2	96.2	10.7	17.4	62.6	3.4	5.2	52.9
C-Section	28.1	28.0	-0.4	18.0	25.8	43.3	29.5	27.8	-5.8	25.8	26.9	4.3	30.9	34.1	10.4	23.2	24.6	6.0	32.6	31.0	-4.9
LBW rate	7.0	7.3	4.3	7.6	7.7	1.3	6.9	6.8	-1.0	6.6	7.0	6.1	12.8	12.3	-3.9	6.4	7.9	23.4	8.8	8.6	-2.3
Newborn intensive care	6.6	7.7	16.7	7.6	7.3	-3.9	6.5	7.4	13.8	5.8	7.4	27.6	9.2	10.8	17.4	4.7	8.6	83.0	6.2	6.8	9.7
Preterm births (< 37 weeks)	10.1	9.3	-7.9	9.7	9.4	-3.3	9.9	8.7	-12.1	9.7	9.2	-5.2	14.4	13.2	-8.3	9.6	10.6	10.9	10.0	9.5	-5.0
Births paid for by the AHCCCS^f	53.0	47.3	-10.7	56.4	59.1	4.8	34.3	33.2	-3.2	73.9	62.4	-15.6	64.6	67.0	3.7	57.5	68.3	18.8	26.3	23.8	-9.5

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

**TABLE 1B-25
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
ARIZONA, 2019**

	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	79,183	68,797	10,368	20†	34,120†	32,575	4,870†	4,460†	3,163
Mother's age group									
<15	40†	29	7	0	*	22	*	6	0
15-17	1,129	928	201	0	214	711	73	124	7
18-19	3,158	2,653	505	0	781	1,861	203	280	33
20-24	16,856	14,252	2,602	*	5,784	8,579	1,087	1,149	257
25-29	24,287	20,977	3,303	7	10,503	10,150	1,486	1,358	790
30-34	20,834	18,493	2,338	*	10,415	6,988	1,211	1,002	1,218
35-39	10,458	9,327	1,130	*	5,242	3,411	654	452	699
40-44	2,246	1,984	260	*	1,071	807	136	88	144
45+	180†	153	22	*	101	46	11	*	15
Unknown	0†	*	0	*	*	0	0	0	0
Payer for birth									
AHCCCS	38,691	32,556	6,127	8	11,321	20,312	3,258	3,047	753
IHS	790†	486	305	0	61	60	*	666	*
Private insurance	33,008	29,983	3,022	*	19,708	9,271	1,253	610	2,166
Self-pay	3,793	3,263	523	7	1,812	1,585	154	94	148
Unknown	2,900	2,509	391	0	1,216	1,347	197	45	95
Mother's education									
8th Grade or Less	2,233	2,060	173	0	240	1,637	214	70	72
Some High School	10,236	8,629	1,607	0	2,202	6,296	591	987	160
High School / GED	21,201	17,931	3,263	7	6,935	10,771	1,514	1,584	397
Some College	18,193	15,545	2,644	*	8,171	7,133	1,305	1,214	370
Associate Degree	6,791	5,792	997	*	3,282	2,558	396	349	206
Bachelor's Degree	13,464	12,308	1,155	*	8,752	2,973	495	181	1,063
Postgraduate Education	6,633	6,176	457	0	4,241	1,125	314	65	888
Unknown	432	356	72	*	295	82	36	12	7
Marital status									
Married	42,686	37,884	4,800	*	23,021	14,318	1,761	904	2,682
Unmarried ^b	35,610	30,197	5,411	*	10,690	17,905	3,049	3,498	468
Unknown	887	716	157	14	407	352	55	60	13
Weight gain									
Inadequate	17,014	14,647	2,365	*	6,290	7,685	1,149	994	896
Adequate	24,405	21,365	3,035	*	10,512	10,161	1,364	1,222	1,146
Excessive	37,218	32,344	4,866	8	17,150	14,483	2,301	2,177	1,107
Unknown	546	441	102	*	166	246	51	69	14
Smoking during pregnancy									
Non-smoker	75,030	66,005	9,022	*	31,454	31,758	4,586	4,110	3,122
Light smoker (less than 10 cigarettes per day)	2,059	1,523	534	*	1,298	465	174	107	15
Heavy smoker (10 or more cigarettes per day)	1,367	1,003	364	0	1,054	202	68	30	13
Unknown	727	266	448	13	312	150	37	215	13
Length of gestation									
<37 weeks	7,396	6,422	973	*	2,967	3,013	642	475	299
37-41 weeks	71,552	62,186	9,350	16	31,052	29,480	4,199	3,960	2,861
42+ weeks	160†	144	14	0	68	63	14	12	*
Unknown	80†	45	31	*	31	19	10	15	*
Weight at birth									
<1,000 grams	419	366	53	0	136	180	63	23	17
1,000-1,499	483	406	77	0	196	183	55	34	15
1,500-2,499	4,927	4,258	669	0	1,999	1,913	478	296	241
2,500-3,999	67,354	58,440	8,899	15	28,883	27,995	4,008	3,704	2,764
4,000+ grams	5,952	5,289	660	*	2,874	2,294	255	405	124
Unknown	50†	38	10	0	30	10	6	0	*

TABLE 1B-25 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
ARIZONA, 2019

	TOTAL	Urban ^a	Rural	Un- known	Mother's race/ethnicity						
					White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander		
Prenatal care											
No care	2,037	1,611	422	*	507	1,104	148	238	40		
1st trimester	54,577	48,096	6,474	7	25,866	20,925	2,909	2,562	2,315		
2nd trimester	14,374	12,247	2,123	*	4,836	6,769	1,189	1,065	515		
3rd trimester	5,387	4,555	830	*	1,632	2,741	405	402	207		
Unknown	2,808	2,288	519	*	1,277	1,036	214	195	86		
Prenatal visits											
No visits	2,037	1,611	422	*	507	1,104	148	238	40		
1-4 visits	4,435	3,671	762	*	1,258	2,169	348	537	123		
5-8 visits	13,898	11,894	2,001	*	4,708	6,472	1,128	1,089	501		
9-12 visits	34,216	29,887	4,321	8	15,581	13,670	1,884	1,654	1,427		
13+ visits	23,085	20,495	2,589	*	11,298	8,683	1,253	832	1,019		
Unknown	1,512	1,239	273	0	766	477	104	112	53		
Newborn intensive care											
Yes	6,065	5,306	759	0	2,536	2,406	523	385	215		
No	73,118	63,491	9,609	18	31,582	30,169	4,342	4,077	2,948		
Method of delivery											
Vaginal	55,071	47,769	7,290	12	23,677	22,945	3,114	3,285	2,050		
C-Section	21,978	19,295	2,677	6	9,488	8,754	1,659	1,097	980		
Forceps	316	276	40	0	140	137	9	12	18		
Vacuum	1,814	1,454	360	0	809	739	83	68	115		
Unknown	0†	*	*	0	*	0	0	0	0		
Obstetric procedures^c											
Total	40,744	35,651	5,090	3	17,205	17,261	2,376	2,338	1,564		
Induction of labor	24,563	21,306	3,255	*	10,890	9,922	1,490	1,403	858		
Augmentation of labor	22,780	20,548	2,230	*	8,905	10,346	1,318	1,245	966		
Cervical cerclage	186	173	13	0	58	77	35	8	8		
Tocolysis	496	421	75	0	183	215	44	37	17		
External cephalic version successful	80†	60	19	0	33	22	8	13	*		
External cephalic version failed	120†	89	35	0	62	42	*	11	*		
Births with medical risk factors^c											
Total	20,197	17,503	2,690	4	7,234	8,722	1,502	1,936	803		
Pre-existing diabetes	879	719	160	0	234	399	61	155	30		
Gestational diabetes	6,881	5,997	884	0	2,317	3,011	320	775	458		
Pre-existing hypertension	1,205	1,039	166	0	428	492	158	102	25		
Gestational hypertension	6,338	5,479	858	*	2,596	2,501	499	588	154		
Eclampsia	110†	89	24	0	37	46	11	16	*		
Previous preterm birth	3,323	2,876	446	*	1,255	1,435	306	244	83		
Other previous poor pregnancy outcome	2,962	2,669	292	*	1,056	1,357	269	189	91		
Gonorrhea	300†	247	51	0	74	125	40	54	*		
Syphilis	173	138	34	*	34	78	19	42	0		
Chlamydia	2,086	1,721	364	*	442	1,103	179	327	35		
Hepatitis B	109	99	10	0	24	10	28	6	41		
Hepatitis C	210†	163	42	0	117	62	12	13	*		

TABLE 1B-25 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
ARIZONA, 2019

	TOTAL	Urban ^a	Rural	Un- known	Mother's race/ethnicity						
					White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander		
Births with complications of labor and delivery^c											
Total	23,589	21,003	2,582	4	9,843	9,646	1,652	1,399	1,049		
Premature rupture of the membranes	4,066	3,543	523	0	1,544	1,741	239	366	176		
Precipitous labor	4,376	3,897	477	*	2,235	1,385	257	262	237		
Prolonged labor	2,071	1,771	300	0	844	828	127	179	93		
Breech presentation	3,116	2,648	468	0	1,478	1,147	186	183	122		
Chorioamnionitis	1,745	1,625	120	0	536	927	88	86	108		
Meconium staining of the amniotic fluid	5,598	5,125	472	*	1,946	2,652	473	311	216		
Fetal intolerance	6,955	6,307	647	*	2,790	2,917	640	311	297		
Maternal transfusion	537	458	79	0	156	245	47	66	23		
Third or fourth degree perineal laceration	373	335	38	0	143	138	23	25	44		
Ruptured uterus	40†	32	6	0	13	17	*	*	0		
Unplanned Hysterectomy	50†	43	6	0	14	18	*	*	6		
Admission to intensive care unit	143	128	15	0	45	66	9	17	6		
Unplanned surgery following delivery	188	149	39	0	60	84	11	24	9		
Total	3,688	3,042	646	0	1,613	1,411	292	254	118		
Assisted ventilation immediately after delivery	2,527	2,045	482	0	1,176	913	203	164	71		
Assisted ventilation for more than 6 hours	1,526	1,280	246	0	709	571	116	90	40		
Surfactant replacement therapy	389	350	39	0	172	150	32	24	11		
Suspected neonatal sepsis	1,760	1,536	224	0	695	742	137	115	71		
Seizure or serious neurologic dysfunction	30†	23	*	0	8	11	*	*	*		
Significant birth injury	60†	37	21	0	27	17	*	12	0		
Total	332	256	76	0	154	120	16	30	12		
Congenital anomalies of the newborn^c											
Anencephalus	10†	7	0	0	*	*	0	*	0		
Spina bifida / Meningocele	20†	15	*	0	9	6	0	*	0		
Cyanotic congenital heart disease	50†	42	6	0	27	13	*	*	*		
Congenital diaphragmatic hernia	10†	*	*	0	*	*	0	0	0		
Omphalocele / Gastroschisis	40†	35	8	0	20	19	*	0	0		
Limb reduction defect	10†	8	*	0	6	*	0	*	0		
Cleft lip / palate	60†	50	11	0	24	24	*	8	*		
Down syndrome	60†	49	8	0	26	22	*	*	*		
Suspected chromosomal disorder	30†	30	*	0	16	13	*	*	0		
Hypospadias	10†	8	*	0	6	*	*	*	0		
Unknown congenital anomalies	60†	28	30	0	23	18	*	11	*		

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

**TABLE 1B-26
CHANGES FROM 2009 TO 2019 IN SELECTED CHARACTERISTICS OF NEWBORNS AND ARIZONA WOMEN GIVING BIRTH
WHICH DIFFER BY PAYER FOR THE DELIVERY**

Characteristics	AHCCCS ^a			Indian Health Service			Private Health Insurance			Self-pay		
	2009	2019	% Change	2009	2019	% Change	2009	2019	% Change	2009	2019	% Change
Number of births^b	49,538	38,691	-21.9	1,683	791	-53.0	37,941	33,008	-13.0	2,467	3,793	53.7
Per 100 births:												
Teenage mother^c	18.6	9.1	-51.1	18.4	10.0	-45.7	3.1	1.4	-54.8	10.1	3.7	-63.4
Unwed mother^d	66.1	67.5	2.1	78.9	76.1	-3.5	17.3	21.3	23.1	35.8	26.7	-25.4
Early prenatal care^e	72.5	61.1	-15.7	60.1	52.8	-12.1	92.6	80.6	-13.0	66.6	57.0	-14.4
0-4 prenatal visits	7.3	11.1	52.1	13.2	25.2	90.9	1.3	3.2	146.8	18.7	17.0	-9.1
C-Section^f	25.3	26.9	6.3	19.8	29.5	48.8	32.0	29.8	-7.0	18.4	20.6	12.0
LBW rate	7.3	8.0	9.6	4.5	8.0	77.8	7.0	6.8	-2.9	6.4	5.3	-17.2
Newborn intensive care	6.1	8.3	36.1	2.9	11.3	288.0	6.6	6.8	3.0	6.4	6.0	-6.3
Preterm birth < 37 weeks	10.2	10.0	-2.0	7.4	11.4	53.8	9.9	8.7	-12.1	8.5	7.3	-14.1

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

**TABLE 1B-27
PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2019**

	TOTAL	Payer for birth				
		AHCCCS ^a	IHS	Private Insurance	Self-pay	Unknown
TOTAL	79,183	38,691	790†	33,010†	3,790†	2,900†
Mother's age group						
<15	40†	31	*	*	*	*
15-17	1,129	900	32	121	42	34
18-19	3,158	2,586	46	348	99	79
20-24	16,856	11,320	181	4,023	693	639
25-29	24,287	11,988	249	10,015	1,181	854
30-34	20,834	7,420	187	11,344	1,106	777
35-39	10,458	3,557	75	5,886	542	398
40-44	2,246	832	18	1,176	114	106
45+	180†	55	*	92	15	12
Unknown	0†	*	0	*	0	0
Mother's race/ethnicity						
White non-Hispanic	34,118	11,321	61	19,708	1,812	1,216
Hispanic or Latino	32,575	20,312	60	9,271	1,585	1,347
Black or African American	4,870†	3,258	*	1,253	154	197
American Indian or Alaska Native	4,462	3,047	666	610	94	45
Asian or Pacific Islander	3,160†	753	*	2,166	148	95
8th Grade or Less	2,233	1,695	19	111	115	293
Some High School	10,236	8,494	210	838	336	358
High School / GED	21,201	14,333	276	5,163	837	592
Some College	18,193	8,945	183	7,564	837	664
Associate Degree	6,791	2,614	50	3,490	373	264
Bachelor's Degree	13,464	1,817	35	10,210	917	485
Postgraduate Education	6,633	517	12	5,559	343	202
Unknown	432	276	6	73	35	42
Marital status						
Married	42,686	11,948	181	25,826	2,718	2,013
Unmarried ^b	35,610	26,099	602	7,047	1,014	848
Unknown	887	644	8	135	61	39
Weight gain						
Inadequate	17,014	9,126	165	6,162	923	638
Adequate	24,405	11,387	193	10,647	1,277	901
Excessive	37,218	17,860	424	16,088	1,542	1,304
Unknown	546	318	9	111	51	57
Smoking during pregnancy						
Non-smoker	75,030	35,699	724	32,275	3,535	2,797
Light smoker (less than 10 cigarettes per day)	2,059	1,620	28	320	53	38
Heavy smoker (10 or more cigarettes per day)	1,367	1,094	6	204	32	31
Unknown	727	278	33	209	173	34
Length of gestation						
<37 weeks	7,396	3,888	90	2,867	276	275
37-41 weeks	71,552	34,690	696	30,077	3,479	2,610
42+ weeks	160†	77	*	56	18	*
Unknown	80†	36	*	8	20	10
Weight at birth						
<1,000 grams	420†	234	*	152	13	17
1,000-1,499	483	257	9	188	16	13
1,500-2,499	4,927	2,617	51	1,919	171	169
2,500-3,999	67,354	32,916	646	28,081	3,218	2,493
4,000+ grams	5,952	2,651	80	2,663	356	202
Unknown	50†	16	*	*	19	6

TABLE 1B-27 (continued)
PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2019

	TOTAL	Payer for birth				
		AHCCCS ^a	IHS	Private Insurance	Self-pay	Unknown
Prenatal care						
No care	2,037	1,358	60	247	320	52
1st trimester	54,577	23,629	418	26,610	2,162	1,758
2nd trimester	14,374	8,771	186	4,043	732	642
3rd trimester	5,387	3,420	101	1,147	400	319
Unknown	2,808	1,513	26	961	179	129
Prenatal visits						
No visits	2,037	1,358	60	247	320	52
1-4 visits	4,435	2,951	139	812	325	208
5-8 visits	13,898	8,463	228	4,022	673	512
9-12 visits	34,216	15,725	234	15,479	1,517	1,261
13+ visits	23,085	9,442	118	11,895	862	768
Unknown	1,512	752	12	553	96	99
Newborn intensive care						
Yes	6,065	3,201	89	2,255	226	294
No	73,118	35,490	702	30,753	3,567	2,606
Method of delivery						
Vaginal	55,071	27,312	542	22,237	2,893	2,087
C-Section	21,978	10,414	233	9,823	782	726
Forceps	320 [†]	128	*	158	17	9
Vacuum	1,814	837	12	790	100	75
Unknown	0 [†]	0	0	0	*	*
Obstetric procedures^c						
Total	40,744	19,994	414	17,055	1,530	1,751
Induction of labor	24,563	12,056	230	10,502	817	958
Augmentation of labor	22,780	11,073	233	9,332	963	1,179
Cervical cerclage	190 [†]	91	*	80	8	*
Tocolysis	496	248	13	186	8	41
External cephalic version successful	80 [†]	34	*	28	6	9
External cephalic version failed	120 [†]	48	*	61	*	12
Total	20,197	10,878	348	7,516	628	827
Births with medical risk factors^c						
Pre-existing diabetes	879	493	32	290	23	41
Gestational diabetes	6,881	3,430	115	2,950	170	216
Pre-existing hypertension	1,205	585	27	490	44	59
Gestational hypertension	6,338	3,148	114	2,572	195	309
Eclampsia	110 [†]	59	*	43	*	*
Previous preterm birth	3,323	1,954	42	1,057	105	165
Other previous poor pregnancy outcome	2,962	1,607	22	1,089	96	148
Gonorrhea	298	245	12	30	0	11
Syphilis	170 [†]	134	13	17	*	7
Chlamydia	2,086	1,563	64	302	64	93
Hepatitis B	110 [†]	61	0	42	*	*
Hepatitis C	210 [†]	172	*	20	7	*

TABLE 1B-27 (continued)
PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2019

	TOTAL	Payer for birth				
		AHCCCS ^a	IHS	Private Insurance	Self-pay	Unknown
Births with complications of labor and delivery^c						
Total	23,589	11,050	269	10,097	1,086	1,087
Premature rupture of the membranes	4,066	1,906	60	1,657	189	254
Precipitous labor	4,376	1,759	50	2,137	246	184
Prolonged labor	2,071	902	33	921	75	140
Breech presentation	3,116	1,404	33	1,447	116	116
Chorioamnionitis	1,745	805	20	713	85	122
Meconium staining of the amniotic fluid	5,598	2,920	58	2,087	276	257
Fetal intolerance	6,955	3,410	85	2,859	258	343
Maternal transfusion	537	303	14	149	40	31
Third or fourth degree perineal laceration	370 [†]	127	*	183	25	33
Ruptured uterus	40 [†]	20	0	12	*	*
Unplanned Hysterectomy	49	24	0	21	0	*
Admission to intensive care unit	140 [†]	82	*	46	*	10
Unplanned surgery following delivery	190 [†]	112	*	48	14	12
Total	3,688	1,888	53	1,436	137	174
Abnormal conditions of the newborn^c						
Assisted ventilation immediately after delivery	2,527	1,271	40	1,019	87	110
Assisted ventilation for more than 6 hours	1,526	766	14	619	47	80
Surfactant replacement therapy	390 [†]	202	*	148	10	26
Suspected neonatal sepsis	1,760	920	26	650	65	99
Seizure or serious neurologic dysfunction	30 [†]	14	0	9	*	*
Significant birth injury	60 [†]	32	0	20	*	*
Total	330 [†]	178	5	115	11	23
Congenital anomalies of the newborn^c						
Anencephalus	10 [†]	*	0	*	0	*
Spina bifida / Meningocele	17	9	0	6	0	*
Cyanotic congenital heart disease	50 [†]	23	0	17	*	7
Congenital diaphragmatic hernia	10 [†]	*	0	*	0	*
Omphalocele / Gastroschisis	40 [†]	27	0	13	*	*
Limb reduction defect	10 [†]	8	0	*	0	0
Cleft lip / palate	60 [†]	38	*	16	*	*
Down syndrome	60 [†]	28	*	22	*	*
Suspected chromosomal disorder	30 [†]	13	*	18	0	*
Hypospadias	10 [†]	*	0	6	0	*
Unknown congenital anomalies	60 [†]	31	*	18	*	6

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ^a The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program; ^b Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; ^c Total birth where an obstetric procedure; medical risk factor; complication of labor and delivery; abnormal condition of the newborn; or a congenital anomaly of the newborn was identified.

**TABLE 1B-28
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND PARTY PAYING FOR THE DELIVERY,
ARIZONA, 2019**

		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	38,691	31	900	2,586	11,320	11,988	7,420	3,557	832	55	*
	IHS	790†	*	32	46	181	249	187	75	18	*	0
	Private insurance	33,010†	*	121	348	4,023	10,015	11,344	5,886	1,176	92	*
	Self-pay	3,790†	*	42	99	693	1,181	1,106	542	114	15	0
	Unknown	2,900†	*	34	79	639	854	777	398	106	12	0
	TOTAL	79,183	40†	1,129	3,158	16,856	24,287	20,834	10,458	2,246	180†	0†
White non- Hispanic	AHCCCS	11,320†	*	163	597	3,184	3,670	2,322	1,087	264	28	*
	IHS	60†	0	*	0	14	19	18	8	0	0	0
	Private insurance	19,708	0	37	139	2,092	5,876	7,079	3,713	714	57	*
	Self-pay	1,812	0	8	21	245	553	629	287	61	8	0
	Unknown	1,220†	0	*	24	249	385	367	147	32	8	0
	TOTAL	34,120†	0†	210†	781	5,784	10,503	10,415	5,242	1,071	101	0†
Hispanic or Latino	AHCCCS	20,312	21	587	1,580	6,288	6,133	3,549	1,711	422	21	0
	IHS	60†	0	6	*	13	18	13	6	*	0	0
	Private insurance	9,271	0	61	162	1,568	3,118	2,755	1,317	273	17	0
	Self-pay	1,590†	0	28	65	377	523	363	179	46	*	0
	Unknown	1,350†	*	29	51	333	358	308	198	65	*	0
	TOTAL	32,575	22	711	1,860†	8,579	10,150	6,988	3,411	810†	50†	0
Black or African American	AHCCCS	3,260†	*	60	167	857	1,031	707	361	66	*	0
	IHS	0†	0	0	0	0	*	*	0	0	0	0
	Private insurance	1,250†	0	12	27	159	348	406	233	63	*	0
	Self-pay	150†	0	0	7	37	40	37	30	*	*	0
	Unknown	200†	0	*	*	34	66	59	30	*	0	0
	TOTAL	4,870†	0†	73	203	1,087	1,490†	1,210†	654	140†	10†	0
American Indian or Alaska Native	AHCCCS	3,050†	*	85	214	848	941	630	279	48	0	0
	IHS	670†	*	24	43	153	211	154	61	17	*	0
	Private insurance	610†	*	9	18	115	164	184	95	22	*	0
	Self-pay	90†	*	6	*	24	26	22	11	0	0	0
	Unknown	50†	0	0	*	9	16	12	6	*	0	0
	TOTAL	4,460†	10†	124	280†	1,149	1,358	1,002	452	88	0†	0
Asian or Pacific Islander	AHCCCS	750†	0	*	28	143	213	212	119	32	*	0
	IHS	0†	0	0	0	*	0	0	0	0	0	0
	Private insurance	2,170†	0	*	*	89	509	920	528	104	12	0
	Self-pay	150†	0	0	*	10	39	55	35	*	*	0
	Unknown	100†	0	0	*	14	29	31	17	*	0	0
	TOTAL	3,160†	0	10†	30†	260†	790	1,218	699	140†	20†	0

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

**TABLE 1B-29
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND TRIMESTER
OF PREGNANCY PRENATAL CARE BEGAN, ARIZONA, 2019**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known
All racial/ ethnic groups	No care	2,040†	*	62	129	513	638	403	204	76	10	0
	1st trimester	54,577	6	519	1,791	10,573	17,022	15,335	7,663	1,555	112	*
	2nd trimester	14,374	15	334	798	3,695	4,256	3,153	1,679	405	39	0
	3rd trimester	5,387	12	172	323	1,445	1,537	1,188	560	140	9	*
	Unknown	2,810†	*	42	117	630	834	755	352	70	6	*
	TOTAL	79,183	40†	1,129	3,158	16,856	24,287	20,834	10,458	2,246	176	0†
White non- Hispanic	No care	510†	*	*	20	98	164	115	62	35	8	0
	1st trimester	25,870†	*	104	503	3,973	8,037	8,242	4,147	792	66	*
	2nd trimester	4,840†	*	67	157	1,073	1,459	1,240	669	153	17	0
	3rd trimester	1,630†	*	30	66	395	474	421	189	50	*	*
	Unknown	1,280†	0	9	35	245	369	397	175	41	*	*
	TOTAL	34,120†	0†	210†	781	5,784	10,503	10,415	5,242	1,071	100†	0†
Hispanic or Latino	No care	1,104	0	45	85	321	341	193	93	26	0	0
	1st trimester	20,930†	*	327	1,012	5,199	6,717	4,820	2,301	512	32	0
	2nd trimester	6,769	10	206	501	1,952	1,995	1,249	657	188	11	0
	3rd trimester	2,740†	7	108	204	824	780	505	249	62	*	0
	Unknown	1,040†	0	25	59	283	317	221	111	19	*	0
	TOTAL	32,575	20†	711	1,861	8,579	10,150	6,988	3,411	807	50†	0
Black or African American	No care	150†	0	6	8	37	39	35	15	7	*	0
	1st trimester	2,910†	0	30	110	607	913	747	406	93	*	0
	2nd trimester	1,190†	*	25	46	299	353	281	153	25	6	0
	3rd trimester	410†	*	8	25	94	122	95	50	8	*	0
	Unknown	210†	*	*	14	50	59	53	30	*	0	0
	TOTAL	4,870†	0†	73	203	1,087	1,486	1,211	654	136	10†	0
American Indian or Alaska Native	No care	240†	*	7	13	53	84	51	25	*	0	0
	1st trimester	2,560†	0	56	151	654	786	588	271	55	*	0
	2nd trimester	1,070†	*	33	85	298	306	220	100	18	*	0
	3rd trimester	400†	*	25	26	101	119	87	35	7	0	0
	Unknown	200†	0	*	*	43	63	56	21	*	0	0
	TOTAL	4,460†	10†	124	280	1,149	1,358	1,002	452	90†	0†	0
Asian or Pacific Islander	No care	40†	0	0	*	*	10	9	9	*	*	0
	1st trimester	2,320†	0	*	15	140	569	938	538	103	10	0
	2nd trimester	520†	0	*	9	73	143	163	100	21	*	0
	3rd trimester	210†	0	*	*	31	42	80	37	13	*	0
	Unknown	90†	0	*	*	9	26	28	15	*	0	0
	TOTAL	3,163	0	10†	30†	260†	790	1,218	699	140†	20†	0

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

**TABLE 1B-30
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND NUMBER OF PRENATAL VISITS,
ARIZONA, 2019**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known
All racial/ ethnic groups	No visits	2,040†	*	62	129	513	638	403	204	76	10	0
	1-4 visits	4,440†	*	123	256	1,136	1,323	970	513	95	15	0
	5-8 visits	13,898	16	301	765	3,469	4,173	3,245	1,550	353	25	*
	9-12 visits	34,216	10	417	1,305	7,126	10,527	9,283	4,569	919	59	*
	13+ visits	23,090†	*	207	642	4,273	7,159	6,517	3,450	771	63	0
	Unknown	1,510†	*	19	61	339	467	416	172	32	*	*
	TOTAL	79,183	40†	1,129	3,158	16,856	24,287	20,834	10,458	2,246	176	0†
White non- Hispanic	No visits	510†	*	*	20	98	164	115	62	35	8	0
	1-4 visits	1,258	0	12	47	283	384	314	173	37	8	0
	5-8 visits	4,710†	*	43	153	979	1,446	1,302	625	145	13	*
	9-12 visits	15,581	0	95	348	2,565	4,760	4,904	2,416	457	35	*
	13+ visits	11,300†	*	54	193	1,710	3,514	3,543	1,872	377	33	0
	Unknown	770†	0	6	20	149	235	237	94	20	*	*
	TOTAL	34,120†	0†	210†	781	5,784	10,503	10,415	5,242	1,071	101	0†
Hispanic or Latino	No visits	1,104	0	45	85	321	341	193	93	26	0	0
	1-4 visits	2,170†	*	89	147	639	651	389	206	41	*	0
	5-8 visits	6,472	9	189	470	1,858	1,924	1,259	610	145	8	0
	9-12 visits	13,670	9	254	759	3,561	4,325	3,002	1,437	309	14	0
	13+ visits	8,680†	*	125	372	2,068	2,754	2,042	1,022	279	20	0
	Unknown	477	0	9	28	132	155	103	43	7	0	0
	TOTAL	32,575	20†	711	1,861	8,579	10,150	6,988	3,411	807	50†	0
Black or African American	No visits	150†	0	6	8	37	39	35	15	7	*	0
	1-4 visits	350†	*	10	22	77	94	88	47	8	*	0
	5-8 visits	1,130†	*	21	57	266	357	266	129	27	*	0
	9-12 visits	1,880†	0	19	67	418	592	471	260	53	*	0
	13+ visits	1,250†	0	14	40	262	375	331	189	40	*	0
	Unknown	100†	*	*	9	27	29	20	14	*	0	0
	TOTAL	4,870†	0†	73	203	1,087	1,486	1,211	654	136	10†	0
American Indian or Alaska Native	No visits	240†	*	7	13	53	84	51	25	*	0	0
	1-4 visits	540†	0	11	35	120	164	147	54	*	*	0
	5-8 visits	1,090†	*	45	78	299	328	218	102	14	*	0
	9-12 visits	1,650†	*	47	119	461	493	344	150	38	*	0
	13+ visits	832	0	13	32	189	259	205	108	26	0	0
	Unknown	110†	0	*	*	27	30	37	13	*	0	0
	TOTAL	4,460†	10†	124	280	1,149	1,358	1,002	452	90†	0†	0
Asian or Pacific Islander	No visits	40†	0	0	*	*	10	9	9	*	*	0
	1-4 visits	120†	0	*	*	17	30	32	33	*	*	0
	5-8 visits	500†	0	*	7	67	118	200	84	22	0	0
	9-12 visits	1,430†	0	*	12	121	357	562	306	62	*	0
	13+ visits	1,020†	0	*	*	44	257	396	259	49	8	0
	Unknown	50†	0	0	*	*	18	19	8	*	0	0
	TOTAL	3,163	0	10†	30†	260†	790	1,218	699	140†	20†	0

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

**TABLE 1B-31
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2019**

	TOTAL	Prenatal care			Visits				
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown
TOTAL	79,183	2,040†	54,577	14,374	5,390†	2,810†	6,472	71,199	1,510†
Mother's age group									
<15	40†	*	6	15	12	*	6	29	*
15-17	1,129	62	519	334	172	42	185	925	19
18-19	3,158	129	1,791	798	323	117	385	2,712	61
20-24	16,856	513	10,573	3,695	1,445	630	1,649	14,868	339
25-29	24,287	638	17,022	4,256	1,537	834	1,961	21,859	467
30-34	20,834	403	15,335	3,153	1,188	755	1,373	19,045	416
35-39	10,458	204	7,663	1,679	560	352	717	9,569	172
40-44	2,246	76	1,555	405	140	70	171	2,043	32
45+	176	10	112	39	9	6	25	147	*
Unknown	0†	0	*	0	*	*	0	*	*
Payer for birth									
AHCCCS	38,691	1,358	23,629	8,771	3,420	1,513	4,309	33,630	752
IHS	791	60	418	186	101	26	199	580	12
Private insurance	33,008	247	26,610	4,043	1,147	961	1,059	31,396	553
Self-pay	3,793	320	2,162	732	400	179	645	3,052	96
Unknown	2,900	52	1,758	642	319	129	260	2,541	99
Mother's education									
8th Grade or Less	2,233	165	1,064	595	303	106	395	1,795	43
Some High School	10,236	525	5,619	2,574	1,098	420	1,532	8,491	213
High School / GED	21,201	629	13,708	4,482	1,666	716	2,037	18,802	362
Some College	18,193	319	12,959	3,297	979	639	1,152	16,659	382
Associate Degree	6,791	137	5,030	1,017	370	237	395	6,272	124
Bachelor's Degree	13,464	143	10,692	1,600	612	417	574	12,660	230
Postgraduate Education	6,633	45	5,344	730	311	203	247	6,289	97
Unknown	432	74	161	79	48	70	140	231	61
Marital status									
Married	42,686	577	32,188	6,269	2,262	1,390	2,222	39,736	728
Unmarried*	35,610	1,371	21,938	7,924	3,014	1,363	4,035	30,821	754
Unknown	887	89	451	181	111	55	215	642	30
Weight gain									
Inadequate	17,014	640	10,752	3,323	1,647	652	2,038	14,615	361
Adequate	24,405	546	17,139	4,399	1,566	755	1,776	22,224	405
Excessive	37,218	729	26,540	6,586	2,120	1,243	2,475	34,127	616
Unknown	546	122	146	66	54	158	183	233	130
Smoking during pregnancy									
Non-smoker	75,030	1,657	52,387	13,458	4,964	2,564	5,620	68,059	1,351
Light smoker (less than 10 cigarettes per day)	2,059	158	1,106	475	213	107	394	1,602	63
Heavy smoker (10 or more cigarettes per day)	1,367	127	713	303	155	69	307	1,013	47
Unknown	727	95	371	138	55	68	151	525	51

TABLE 1B-31 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2019

	TOTAL	Prenatal care			Visits							
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown			
Length of gestation												
<37 weeks	7,396	522	4,834	1,204	337	499	1,347	5,787	262			
37-41 weeks	71,552	1,481	49,694	13,111	5,021	2,245	5,069	65,277	1,206			
42+ weeks	158	17	49	46	27	19	31	115	12			
Unknown	80†	17	0	13	*	45	25	20	32			
Weight at birth												
<1,000 grams	419	48	257	61	0	53	178	225	16			
1,000-1,499	483	56	288	88	12	39	140	326	17			
1,500-2,499	4,927	284	3,216	908	272	247	733	4,046	148			
2,500-3,999	67,354	1,560	46,593	12,232	4,694	2,275	5,041	61,084	1,229			
4,000+ grams	5,952	82	4,212	1,079	408	171	366	5,499	87			
Unknown	50†	7	11	6	*	23	14	19	15			
Newborn intensive care												
Yes	6,065	469	3,808	1,083	420	285	1,136	4,766	163			
No	73,118	1,568	50,769	13,291	4,967	2,523	5,336	66,433	1,349			
Method of delivery												
Vaginal	55,071	1,461	37,726	10,155	3,716	2,013	4,411	49,563	1,097			
C-Section	21,978	524	15,424	3,793	1,506	731	1,890	19,710	378			
Forceps	316	7	227	49	26	7	24	288	*			
Vacuum	1,814	45	1,199	377	139	54	147	1,637	30			
Unknown	0†	0	*	0	0	*	0	*	*			
Obstetric procedures^b												
Total	40,744	741	28,433	7,638	2,877	1,055	2,744	37,441	559			
Induction of labor	24,563	302	17,280	4,683	1,760	538	1,379	22,947	237			
Augmentation of labor	22,780	509	15,720	4,290	1,613	648	1,683	20,729	368			
Cervical cerclage	186	6	133	28	15	*	27	158	*			
Tocolysis	496	31	332	84	30	19	94	389	13			
External cephalic version successful	80†	0	52	20	*	*	*	74	*			
External cephalic version failed	120†	*	94	18	*	6	6	113	*			
Births with medical risk factors^b												
Total	20,197	594	13,752	3,803	1,463	585	1,956	17,959	282			
Pre-existing diabetes	879	39	595	153	70	22	103	765	11			
Gestational diabetes	6,881	93	4,990	1,174	434	190	395	6,409	77			
Pre-existing hypertension	1,205	38	871	188	77	31	124	1,066	15			
Gestational hypertension	6,338	223	4,310	1,192	438	175	665	5,572	101			
Eclampsia	113	7	76	19	7	*	13	97	*			
Previous preterm birth	3,323	130	2,264	587	219	123	408	2,856	59			
Other previous poor pregnancy outcome	2,962	80	2,071	526	237	48	282	2,657	23			
Gonorrhea	298	16	147	79	40	16	57	237	*			
Syphilis	173	9	77	57	23	7	40	130	*			
Chlamydia	2,086	80	1,181	550	216	59	291	1,763	32			
Hepatitis B	110†	*	60	26	15	*	11	96	*			
Hepatitis C	205	23	81	58	33	10	56	141	8			

TABLE 1B-31 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2019

	TOTAL	Prenatal care			Visits							
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown			
Births with complications of labor and delivery^b												
Total	23,589	795	16,025	4,296	1,690	783	2,296	20,816	477			
Premature rupture of the membranes	4,066	199	2,685	773	241	168	539	3,437	90			
Precipitous labor	4,376	164	3,080	694	281	157	462	3,819	95			
Prolonged labor	2,071	44	1,428	390	140	69	139	1,894	38			
Breech presentation	3,116	130	2,170	499	191	126	392	2,654	70			
Chorioamnionitis	1,745	52	1,149	352	150	42	139	1,582	24			
Meconium staining of the amniotic fluid	5,598	239	3,562	1,136	484	177	609	4,864	125			
Fetal intolerance	6,955	172	4,734	1,303	537	209	555	6,276	124			
Maternal transfusion	537	38	335	103	46	15	94	435	8			
Third or fourth degree perineal laceration	373	6	261	68	26	12	18	347	8			
Ruptured uterus	40†	*	28	*	*	0	7	31	0			
Unplanned Hysterectomy	50†	*	33	9	*	*	7	42	0			
Admission to intensive care unit	143	16	87	19	7	14	25	109	9			
Unplanned surgery following delivery	188	14	120	33	13	8	31	151	6			
Total	3,688	293	2,272	696	263	164	711	2,883	94			
Abnormal conditions of the newborn^b												
Total	2,527	191	1,619	454	142	121	467	1,989	71			
Assisted ventilation immediately after delivery	1,526	139	956	280	77	74	346	1,136	44			
Assisted ventilation for more than 6 hours	389	63	225	57	20	24	120	254	15			
Surfactant replacement therapy	1,760	200	977	359	153	71	427	1,294	39			
Suspected neonatal sepsis	30†	*	15	*	*	*	8	17	*			
Seizure or serious neurologic dysfunction	60†	*	31	13	7	*	9	46	*			
Significant birth injury	332	19	195	63	33	22	58	262	12			
Total	10†	0	*	*	*	0	*	6	0			
Anencephalus	20†	*	13	*	*	0	*	16	0			
Spina bifida / Meningocele	50†	*	27	8	7	*	10	37	*			
Cyanotic congenital heart disease	10†	0	*	*	0	*	0	*	*			
Congenital diaphragmatic hernia	40†	*	21	9	8	*	11	31	*			
Omphalocele / Gastroschisis	10†	0	9	*	0	0	0	11	0			
Limb reduction defect	60†	*	36	19	*	0	9	52	0			
Cleft lip / palate	60†	0	42	10	*	*	*	51	*			
Down syndrome	30†	0	26	*	*	*	*	31	0			
Suspected chromosomal disorder	10†	*	6	*	*	*	*	9	*			
Hypospadias	58	10	24	8	6	10	17	34	7			
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 Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; ^b Total birth where an obstetric procedure; medical risk factor; complication of labor and delivery; abnormal condition of the newborn; or a congenital anomaly of the newborn was identified.

**TABLE 1B-32
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2019**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
TOTAL	79,183	5,830†	73,306	50†	7,400†	71,552	160†	80†
Mother's age group								
<15	40†	*	33	0	*	32	0	0
15-17	1,130†	91	1,038	0	106	1,020	*	*
18-19	3,160†	240	2,917	*	283	2,869	*	*
20-24	16,856	1,210	15,641	*	1,398	15,412	35	11
25-29	24,287	1,629	22,637	21	2,121	22,085	55	26
30-34	20,834	1,482	19,340	12	1,910	18,869	37	18
35-39	10,458	905	9,547	6	1,226	9,201	18	13
40-44	2,246	233	2,011	*	306	1,929	7	*
45+	176	36	139	*	42	132	0	*
Unknown	0†	0	*	0	0	*	0	0
Payer for birth								
AHCCCS	38,691	3,108	35,567	16	3,888	34,690	77	36
IHS	790†	63	726	*	90	696	*	*
Private insurance	33,008	2,259	30,744	*	2,867	30,077	56	8
Self-pay	3,793	200	3,574	19	276	3,479	18	20
Unknown	2,900†	199	2,695	6	275	2,610	*	10
Mother's education								
8th Grade or Less	2,233	167	2,066	0	250	1,970	11	*
Some High School	10,236	827	9,399	10	1,110	9,093	20	13
High School / GED	21,201	1,633	19,559	9	1,993	19,146	43	19
Some College	18,193	1,374	16,810	9	1,767	16,372	38	16
Associate Degree	6,791	445	6,342	*	594	6,181	10	6
Bachelor's Degree	13,464	843	12,614	7	1,052	12,376	29	7
Postgraduate Education	6,630†	464	6,168	*	540	6,084	*	*
Unknown	430†	76	348	8	90	330	*	10
Marital status								
Married	42,686	2,806	39,856	24	3,693	38,882	85	26
Unmarried ^a	35,610	2,913	32,680	17	3,571	31,930	70	39
Unknown	890†	110	770	7	132	740	*	12
Weight gain								
Inadequate	17,014	1,969	15,031	14	2,186	14,770	32	26
Adequate	24,405	1,669	22,722	14	2,099	22,251	42	13
Excessive	37,218	2,102	35,107	9	2,993	34,127	81	17
Unknown	550†	89	446	11	118	404	*	21
Smoking during pregnancy								
Non-smoker	75,030	5,239	69,755	36	6,768	68,065	146	51
Light smoker (less than 10 cigarettes per day)	2,060†	246	1,808	*	289	1,757	*	9
Heavy smoker (10 or more cigarettes per day)	1,370†	211	1,154	*	185	1,175	*	*
Unknown	730†	133	589	*	154	555	*	13

**TABLE 1B-32 (continued)
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2019**

	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	2,037	388	1,642	7	522	1,481	17	17
1st trimester	54,577	3,761	50,805	11	4,834	49,694	49	0
2nd trimester	14,374	1,057	13,311	6	1,204	13,111	46	13
3rd trimester	5,387	284	5,102	*	337	5,021	27	*
Unknown	2,808	339	2,446	23	499	2,245	19	45
Prenatal visits								
No visits	2,037	388	1,642	7	522	1,481	17	17
1-4 visits	4,435	663	3,765	7	825	3,588	14	8
5-8 visits	13,898	1,574	12,314	10	2,065	11,787	38	8
9-12 visits	34,216	1,910	32,300	6	2,474	31,700	30	12
13+ visits	23,085	1,113	21,969	*	1,248	21,790	47	0
Unknown	1,512	181	1,316	15	262	1,206	12	32
Newborn intensive care								
Yes	6,065	2,711	3,347	7	3,271	2,773	12	9
No	73,118	3,118	69,959	41	4,125	68,779	146	68
Method of delivery								
Vaginal	55,071	2,807	52,221	43	3,704	51,189	111	67
C-Section	21,978	2,919	19,057	*	3,578	18,350	43	7
Forceps	316	19	297	0	31	285	0	0
Vacuum	1,810†	84	1,730	0	83	1,727	*	0
Unknown	0†	0	*	*	0	*	0	*
Obstetric procedures^b								
Total	40,744	2,205	38,534	5	2,604	38,040	96	4
Induction of labor	24,563	1,440	23,120	*	1,406	23,090	66	*
Augmentation of labor	22,780	981	21,796	*	1,426	21,304	47	*
Cervical cerclage	186	58	127	*	67	119	0	0
Tocolysis	496	192	304	0	222	274	0	0
External cephalic version successful	80†	*	74	0	*	75	0	0
External cephalic version failed	124	11	113	0	12	112	0	0
Total	20,197	2,520	17,674	3	3,345	16,824	18	10
Births with medical risk factors^b								
Pre-existing diabetes	880†	109	770	0	247	629	*	*
Gestational diabetes	6,880†	575	6,304	*	878	6,000	*	*
Pre-existing hypertension	1,210†	206	999	0	271	932	*	0
Gestational hypertension	6,340†	1,165	5,172	*	1,440	4,889	*	*
Eclampsia	110†	35	78	0	54	58	*	0
Previous preterm birth	3,320†	603	2,719	*	959	2,360	*	*
Other previous poor pregnancy outcome	2,960†	347	2,614	*	416	2,544	*	*
Gonorrhea	300†	30	268	0	30	267	*	0
Syphilis	170†	15	158	0	20	152	*	0
Chlamydia	2,090†	160	1,926	0	191	1,890	*	*
Hepatitis B	109	8	101	0	10	99	0	0
Hepatitis C	210†	29	176	0	32	171	*	0

TABLE 1B-32 (continued)
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2019

	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	23,589	2,641	20,933	15	3,300	20,212	62	15
Premature rupture of the membranes	4,066	874	3,190	*	1,284	2,770	12	0
Precipitous labor	4,376	314	4,054	8	413	3,944	8	11
Prolonged labor	2,071	161	1,908	*	220	1,834	16	*
Breech presentation	3,120†	928	2,187	*	1,050	2,065	*	0
Chorioamnionitis	1,750†	125	1,618	*	152	1,587	*	*
Meconium staining of the amniotic fluid	5,598	242	5,353	*	300	5,272	22	*
Fetal intolerance	6,955	724	6,231	0	768	6,167	18	*
Maternal transfusion	540†	102	434	*	139	397	*	0
Third or fourth degree perineal laceration	370†	7	366	0	6	365	*	0
Ruptured uterus	40†	*	37	0	7	30	*	0
Unplanned Hysterectomy	49	17	32	0	22	27	0	0
Admission to intensive care unit	143	43	100	0	60	83	0	0
Unplanned surgery following delivery	188	30	157	*	35	152	0	*
Total	3,688	1,489	2,194	5	1,772	1,899	8	9
Abnormal conditions of the newborn^b								
Assisted ventilation immediately after delivery	2,527	1,096	1,427	*	1,290	1,226	6	*
Assisted ventilation for more than 6 hours	1,530†	865	657	*	1,019	501	*	*
Surfactant replacement therapy	389	299	90	0	333	56	0	0
Suspected neonatal sepsis	1,760†	765	993	*	903	846	*	6
Seizure or serious neurologic dysfunction	30†	6	20	0	*	20	0	*
Significant birth injury	58	7	51	0	6	52	0	0
Total	332	110	216	6	99	228	0	5
Congenital anomalies of the newborn^b								
Anencephalus	10†	*	*	0	*	*	0	0
Spina bifida / Meningocele	17	6	11	0	6	11	0	0
Cyanotic congenital heart disease	48	19	29	0	12	36	0	0
Congenital diaphragmatic hernia	10†	*	*	0	*	*	0	0
Omphalocele / Gastroschisis	43	27	16	0	27	16	0	0
Limb reduction defect	10†	*	8	0	*	10	0	0
Cleft lip / palate	61	10	51	0	13	48	0	0
Down syndrome	57	17	40	0	16	41	0	0
Suspected chromosomal disorder	34	13	21	0	8	26	0	0
Hypospadias	10†	*	6	0	*	8	0	0
Unknown congenital anomalies	58	20	32	6	18	35	0	*

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

**TABLE 1B-33
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2019**

	TOTAL	Mother's age group										Un- known
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+		
TOTAL	79,183	36	1,129	3,158	16,856	24,287	20,834	10,458	2,246	176	3	
Mother's race/ethnicity	34,120†	*	214	781	5,784	10,503	10,415	5,242	1,071	101	*	
White non-Hispanic	32,575	22	711	1,861	8,579	10,150	6,988	3,411	807	46	0	
Hispanic or Latino	4,870†	*	73	203	1,087	1,486	1,211	654	136	11	0	
Black or African American	4,460†	6	124	280	1,149	1,358	1,002	452	88	*	0	
American Indian or Alaska Native	3,160†	0	7	33	257	790	1,218	699	144	15	0	
Asian or Pacific Islander	38,691	31	900	2,586	11,320	11,988	7,420	3,557	832	55	*	
Payer for birth	790†	*	32	46	181	249	187	75	18	*	0	
AHCCCS	33,010†	*	121	348	4,023	10,015	11,344	5,886	1,176	92	*	
IHS	3,790†	*	42	99	693	1,181	1,106	542	114	15	0	
Private insurance	2,900†	*	34	79	639	854	777	398	106	12	0	
Self-pay	2,233	18	74	89	385	496	530	461	169	11	0	
Unknown	10,236	18	933	1,286	3,087	2,428	1,551	742	181	10	0	
Mother's education	21,200†	0	115	1,382	7,045	6,805	3,874	1,611	339	30	0	
8th Grade or Less	18,190†	0	*	341	4,451	6,580	4,382	2,017	397	20	0	
Some High School	6,790†	0	0	47	967	2,380	2,118	1,052	214	13	0	
High School / GED	13,460†	0	0	0	786	4,263	5,302	2,565	519	29	0	
Some College	6,630†	0	0	0	67	1,237	2,955	1,941	395	38	0	
Associate Degree	430†	0	*	13	68	98	122	69	32	25	*	
Bachelor's Degree	42,690†	0	35	372	5,358	13,431	14,415	7,450	1,518	107	0	
Postgraduate Education	35,610	36	1,093	2,778	11,387	10,591	6,165	2,851	666	42	*	
Unknown	890†	0	*	8	111	265	254	157	62	27	*	
Marital status	17,014	17	302	746	3,665	5,196	4,349	2,194	490	55	0	
Married	24,405	10	325	886	4,843	7,469	6,704	3,365	739	63	*	
Unmarried*	37,218	9	491	1,500	8,205	11,450	9,665	4,833	1,006	57	*	
Unknown	550†	0	11	26	143	172	116	66	11	*	0	
Weight gain	75,030	36	1,088	3,014	15,942	22,922	19,822	9,931	2,114	159	*	
Adequate	2,060†	0	21	74	454	723	490	238	53	*	*	
Excessive	1,370†	0	6	40	291	430	336	201	56	7	0	
Unknown	730†	0	14	30	169	212	186	88	23	*	0	
Smoking during pregnancy	7,400†	*	106	283	1,398	2,121	1,910	1,226	306	42	0	
Non-smoker	71,552	32	1,020	2,869	15,412	22,085	18,869	9,201	1,929	132	*	
Light smoker (less than 10 cigarettes per day)	160†	0	*	*	35	55	37	18	7	0	0	
Heavy smoker (10 or more cigarettes per day)	80†	0	*	*	11	26	18	13	*	*	0	
Unknown	420†	*	7	23	90	118	93	68	16	*	0	
Length of gestation	480†	0	11	17	74	136	128	90	25	*	0	
<37 weeks	4,930†	*	73	200	1,046	1,375	1,261	747	192	31	0	
37-41 weeks	67,354	30	991	2,789	14,611	20,718	17,543	8,689	1,849	132	*	
42+ weeks	5,950†	*	47	128	1,030	1,919	1,797	858	162	7	*	
Unknown	50†	0	0	*	*	21	12	6	*	*	0	
Weight at birth	4,000+ grams	0	0	0	0	0	0	0	0	0	0	
<1,000 grams	1,000-1,499	1,500-2,499	2,500-3,999	4,000+ grams	Unknown							

**TABLE 1B-33 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2019**

	TOTAL	Mother's age group										Un- known		
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+				
Prenatal care														
No care	2,040†	*	62	129	513	638	403	204	76	10	0			
1st trimester	54,577	6	519	1,791	10,573	17,022	15,335	7,663	1,555	112	*			
2nd trimester	14,374	15	334	798	3,695	4,256	3,153	1,679	405	39	0			
3rd trimester	5,387	12	172	323	1,445	1,537	1,188	560	140	9	*			
Unknown	2,810†	*	42	117	630	834	755	352	70	6	*			
Prenatal visits														
No visits	2,040†	*	62	129	513	638	403	204	76	10	0			
1-4 visits	4,440†	*	123	256	1,136	1,323	970	513	95	15	0			
5-8 visits	13,898	16	301	765	3,469	4,173	3,245	1,550	353	25	*			
9-12 visits	34,216	10	417	1,305	7,126	10,527	9,283	4,569	919	59	*			
13+ visits	23,090†	*	207	642	4,273	7,159	6,517	3,450	771	63	0			
Unknown	1,510†	*	19	61	339	467	416	172	32	*				
Newborn intensive care														
Yes	6,070†	*	101	256	1,209	1,751	1,546	933	239	26	0			
No	73,118	32	1,028	2,902	15,647	22,536	19,288	9,525	2,007	150	*			
Method of delivery														
Vaginal	55,071	30	919	2,483	12,854	17,322	13,781	6,337	1,262	81	*			
C-Section	21,980†	*	164	542	3,492	6,342	6,525	3,891	925	93	*			
Forceps	320†	0	9	11	61	96	94	29	15	*	0			
Vacuum	1,810†	*	37	122	448	527	432	201	44	0	0			
Unknown	0†	0	0	0	*	0	*	0	0	*	0			
Obstetric procedures^b														
Total	40,744	24	689	1,917	9,613	12,574	9,886	4,916	1,064	59	2			
Induction of labor	24,563	18	371	1,046	5,393	7,421	6,087	3,369	811	45	*			
Augmentation of labor	22,780†	*	423	1,167	5,722	7,084	5,464	2,417	475	23	0			
Cervical cerclage	190†	0	*	*	24	58	52	37	7	*	0			
Tocolysis	500†	0	12	23	128	137	117	69	10	0	0			
External cephalic version successful	80†	0	*	*	9	21	22	20	*	*	0			
External cephalic version failed	120†	*	*	*	20	46	28	18	*	*	0			
Total	20,197	7	243	717	3,783	5,642	5,517	3,349	863	75	1			
Births with medical risk factors^b														
Pre-existing diabetes	880†	0	*	12	110	215	256	220	60	*	0			
Gestational diabetes	6,880†	0	33	97	859	1,728	2,230	1,474	418	42	0			
Pre-existing hypertension	1,210†	0	*	13	130	281	350	318	100	8	0			
Gestational hypertension	6,340†	*	95	297	1,342	1,760	1,655	918	241	26	*			
Eclampsia	110†	*	*	6	22	29	29	17	*	0	0			
Previous preterm birth	3,320†	0	8	32	473	1,009	1,000	643	148	10	0			
Other previous poor pregnancy outcome	2,960†	*	*	46	475	939	834	526	124	13	0			
Gonorrhea	300†	0	15	26	97	86	61	10	*	*	0			
Syphilis	170†	0	*	12	47	54	33	20	*	0	0			
Chlamydia	2,090†	*	108	263	880	516	219	76	20	*	0			
Hepatitis B	110†	0	0	*	11	22	42	26	*	*	0			
Hepatitis C	210†	0	0	*	29	83	63	24	*	*	0			

**TABLE 1B-33 (continued)
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2019**

	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	23,589	10	377	1,022	5,137	7,129	6,147	3,067	633	66					
Premature rupture of the membranes	4,070†	*	77	182	986	1,239	1,010	445	113	12					
Precipitous labor	4,380†	*	41	100	681	1,331	1,379	698	133	11					
Prolonged labor	2,070†	*	45	110	520	609	497	237	49	*					
Breech presentation	3,120†	*	30	89	525	852	897	582	125	15					
Chorioamnionitis	1,750†	*	61	107	539	539	351	125	20	*					
Meconium staining of the amniotic fluid	5,600†	*	97	304	1,354	1,762	1,388	574	102	12					*
Fetal intolerance	6,960†	*	117	345	1,635	2,143	1,667	841	187	15					0
Maternal transfusion	540†	0	14	25	105	152	139	78	19	*					0
Third or fourth degree perineal laceration	370†	0	14	15	92	121	90	38	*	0					0
Ruptured uterus	40†	0	0	*	6	10	10	7	*	0					0
Unplanned Hysterectomy	50†	0	0	*	6	9	12	18	*	0					0
Admission to intensive care unit	140†	0	*	7	22	38	39	30	*	0					0
Unplanned surgery following delivery	190†	0	*	13	45	52	36	32	6	0					0
Abnormal conditions of the newborn^b															
Total	3,690†	4	70	193	742	1,075	903	541	150	10					0
Assisted ventilation immediately after delivery	2,530†	*	46	133	488	740	612	388	110	7					0
Assisted ventilation for more than 6 hours	1,530†	*	24	75	274	432	391	246	77	*					0
Surfactant replacement therapy	390†	0	7	22	74	105	91	64	25	*					0
Suspected neonatal sepsis	1,760†	*	38	89	398	499	421	234	74	*					0
Seizure or serious neurologic dysfunction	30†	0	0	*	*	6	10	7	0	0					0
Significant birth injury	60†	0	*	*	9	20	12	10	*	0					0
Congenital anomalies of the newborn^b															
Total	330†	1	4	12	67	85	84	54	19	6					0
Anencephalus	10†	0	*	0	*	*	*	0	0	0					0
Spina bifida / Meningocele	20†	0	0	*	*	6	*	*	*	0					0
Cyanotic congenital heart disease	50†	0	0	0	*	19	17	6	*	0					0
Congenital diaphragmatic hernia	10†	0	0	0	0	*	*	*	*	0					0
Omphalocele / Gastroschisis	40†	0	*	6	14	12	7	*	0	0					0
Limb reduction defect	10†	0	*	0	*	*	*	*	0	0					0
Cleft lip / palate	60†	0	0	*	15	17	20	*	*	0					0
Down syndrome	60†	0	0	0	*	6	9	21	12	*					0
Suspected chromosomal disorder	30†	*	0	0	*	6	10	10	*	0					0
Hypospadias	10†	0	0	0	*	*	*	*	*	0					0
Unknown congenital anomalies	60†	0	0	*	7	20	21	6	*	0					0

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

**TABLE 1B-34
BIRTHS WITH CONGENITAL ANOMALIES MENTIONED ON BIRTH CERTIFICATE BY MOTHER'S RACE/ETHNICITY AND
CHILD'S GENDER, ARIZONA, 2019**

	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	332	179	153	154	91	63	120	60	60	16	7	9	30	16	14	12	5	7
Anencephalus	10†	*	*	0†	0	*	0†	*	*	0	0	0	0†	*	0	0	0	0
Spina bifida / Meningocele	17	11	6	10†	7	*	10†	*	*	0	0	0	0†	*	*	0	0	0
Cyanotic congenital heart disease	48	28	20	27	17	10	10†	8	*	0†	*	*	0†	*	*	0†	*	*
Congenital diaphragmatic hernia	10†	*	*	0†	*	*	0†	*	*	0	0	0	0	0	0	0†	*	0
Omphalocele / Gastroschisis	43	25	18	20	13	7	19	11	8	0†	*	*	0	0	0	0	0	0
Limb reduction defect	10†	6	*	10†	*	*	0†	*	*	0	0	0	0†	*	0	0	0	0
Cleft lip / palate	61	32	29	24	12	12	24	11	13	0†	*	0	10†	6	*	0†	*	*
Down syndrome	57	27	30	26	12	14	22	12	10	0†	0	*	0†	*	*	0†	*	*
Suspected chromosomal disorder	34	17	17	20†	11	*	10†	*	8	0†	*	*	0†	0	*	0	0	0
Hypospadias	10†	9	*	6	6	0	0†	*	*	0†	0	*	0†	*	0	0	0	0
Unknown congenital anomalies	58	31	27	23	15	8	18	7	11	0†	*	*	10†	6	*	0†	*	*
Ratio per 100 births^a	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.7	0.7	0.6	0.4	0.3	0.5

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.



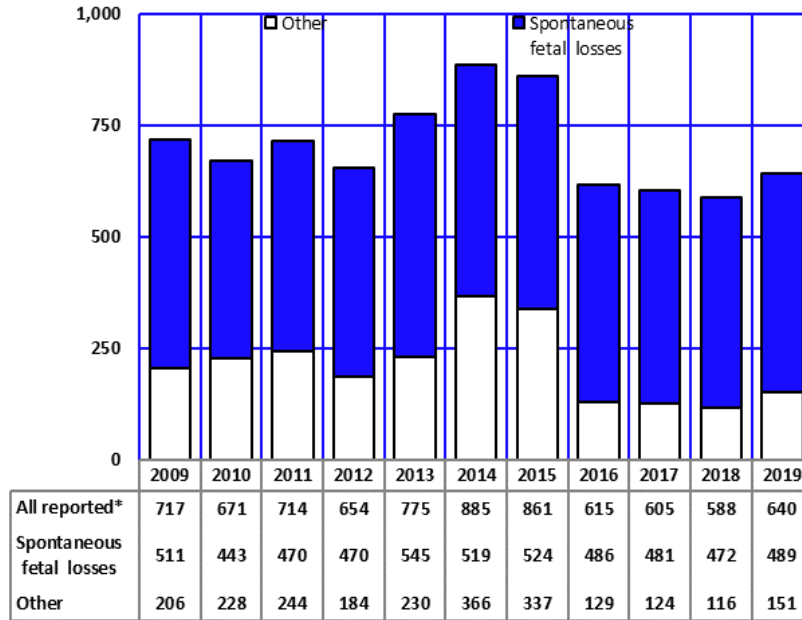
1C.

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

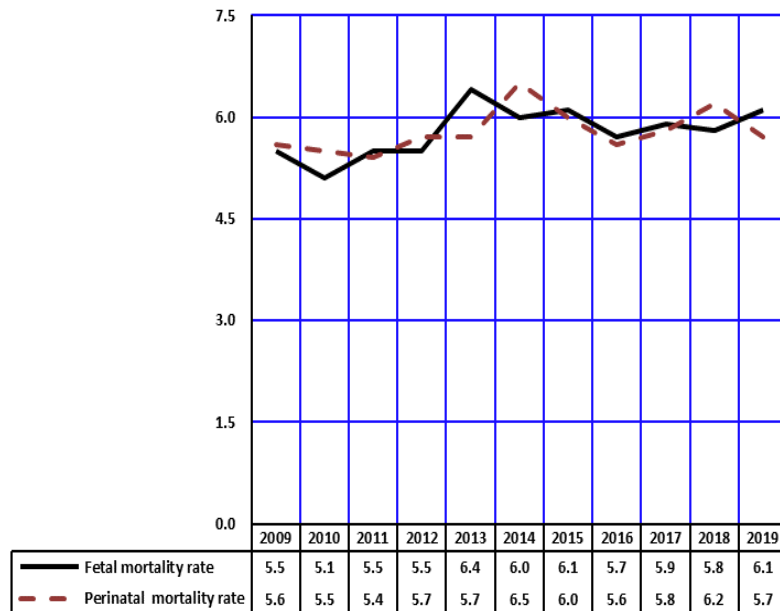
Figure 1C-1
Trends in Fetal Deaths, Arizona, 2009-2019



The number of all reported fetal deaths in Arizona (including late term abortions) in 2019 was 640, an 8.8 percent increase from 2018 (**Figure 1C-1, Table 1C-3**). The annual number of reportable spontaneous fetal losses increased 3.6 percent from 472 in 2018 to 489 in 2019. (**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, 2009-2019



The fetal mortality rate decreased slightly from a rate of 5.8 deaths at 20 or more weeks of gestation per 1,000 live births in 2018 to a rate of 6.1 deaths in 2019.

Perinatal mortality refers here to death of a fetus of at least 28 weeks gestational age, or of an infant less than 7 days old. The perinatal death rate per 1,000 live births has been below 6 deaths per 1,000 since 2009 then increased at 6.5 in 2014. The perinatal mortality rate of 5.7 in 2019 represented a decrease from the 2017 and 2018 rates (**Figure 1C-2, Table 1C-3**).

Early infant deaths accounted for 206 or 45.5 percent of the 453 perinatal deaths in 2019 (**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, 2009-2019

In 2019, 42 women giving birth were reported to have died from maternal causes (**Table 1C-1**). This represents a 27.3 percent increase from the number of maternal deaths recorded in 2018. 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 193 maternal deaths from 2009 to 2019, 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**).

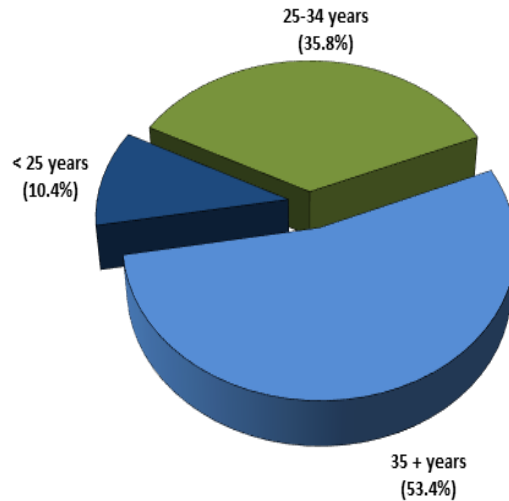
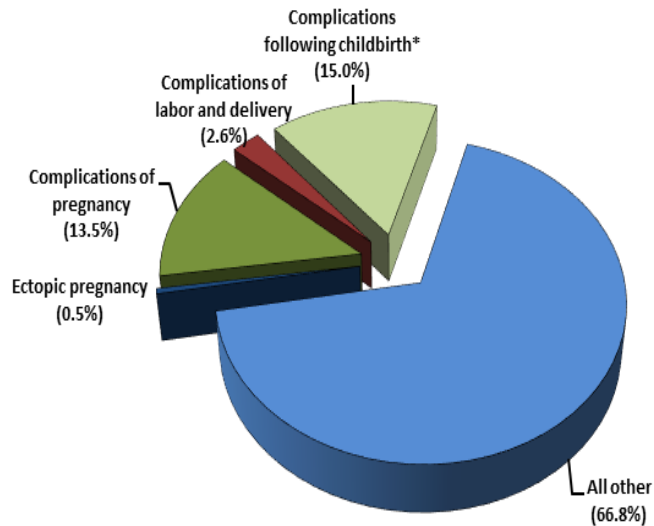


Figure 1C-4
Causes of Maternal Mortality^a, Arizona, 2009-2019

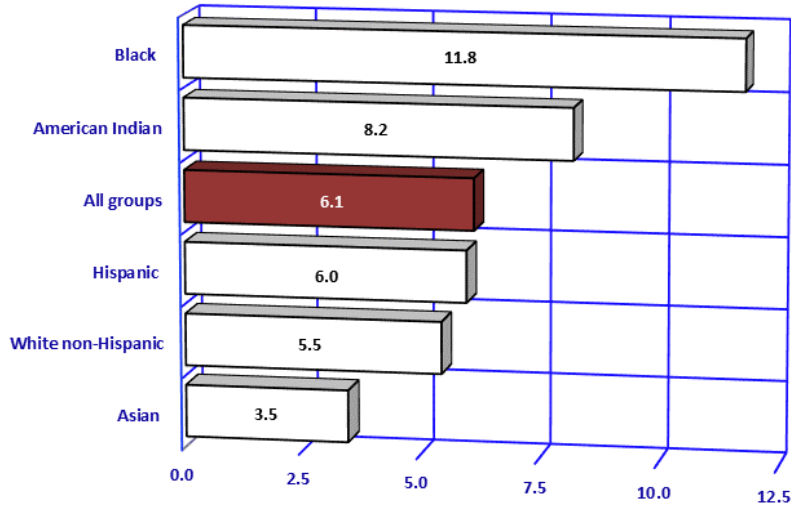
In the eleven-year period from 2009 to 2019, the major causes of maternal deaths in the state have included complications following childbirth (i.e. complications of the puerperium), complications mainly related to pregnancy, complications occurring in the course of labor and delivery, and ectopic pregnancy. All other possible causes of maternal death accounted for 66.8 percent of the maternal deaths from 2009 to 2019 (**Figure 1C-4, Table 1C-2**).



Notes: ^a Based on the total number of maternal deaths from 2009 to 2019; * Complications of the puerperium.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

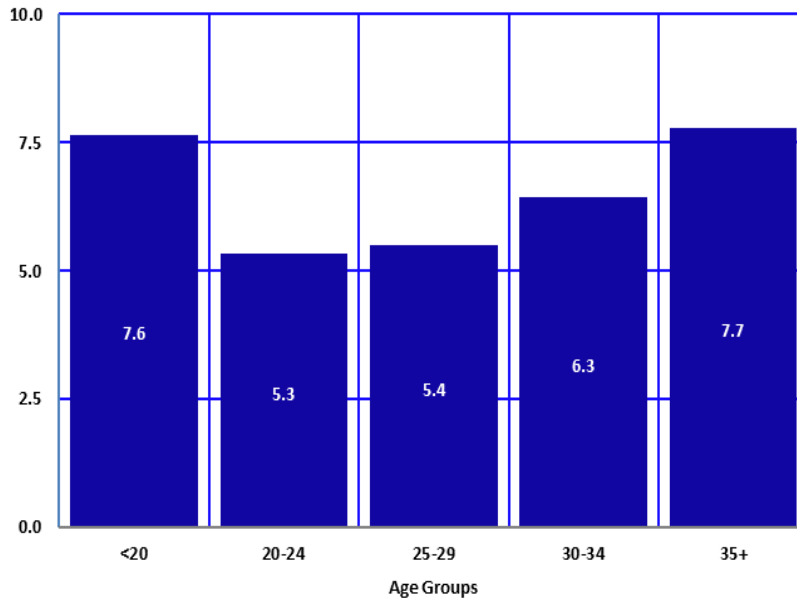
Figure 1C-5
Fetal Mortality Rates by Race/Ethnicity, Arizona, 2019



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 11.8 per 1,000 live births plus fetal deaths, the highest rate among the racial/ethnic groups. The fetal mortality rate was equally high for American Indian women (8.2), while the rates of Hispanic or Latino (6.0), White non-Hispanic (5.5), and Asian women (3.5) were below the state average.

Note: * 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, 2019



Fetal mortality rates vary by maternal age (**Figure 1C-6**). In 2019 fetal mortality rates were lowest for women aged 20-24 years and highest for women aged 35 years and older. The fetal mortality rate for mothers aged 35 and older increased slightly from 7.6 in 2018 to 7.7 in 2019.

Note: * 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, 2009-2019**

Year	Total maternal deaths ^b	Under <15	15-19	20-24	25-29	30-34	35-39	40-44	45+
2009	10†	0	0	0	*	*	*	0	0
2010	10†	0	*	*	*	*	*	*	*
2011	10†	0	0	*	*	0	*	*	0
2012	20†	0	0	0	*	*	*	*	*
2013	10†	0	0	*	*	*	*	0	*
2014	10†	0	*	0	*	0	*	*	*
2015	10†	0	0	0	*	0	*	*	0
2016	30†	0	*	*	*	7	*	*	0
2017	20†	0	*	*	*	*	9	*	0
2018	30†	0	0	*	*	9	6	*	9
2019	40†	0	0	*	6	10	11	*	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 Maternal deaths are those assigned to complications of pregnancy, childbirth, and puerperium, category codes O00-O99 of the Tenth Revision of the *International Classification of Diseases*; ^b May include cases with unknown age.

**TABLE 1C-2
MATERNAL DEATHS BY CAUSE AND YEAR, ARIZONA, 2009-2019**

Cause of death (ICD-9/ICD-10 codes)	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
PREGNANCY WITH ABORTIVE OUTCOME (O00-O07)	*	0	0	0	*	*	0	*	0	0	0
Ectopic pregnancy (O00)	0	0	0	0	0	*	0	0	0	0	0
COMPLICATIONS MAINLY RELATED TO PREGNANCY (O10-O16)	*	*	*	*	*	*	*	*	6	*	0
COMPLICATIONS OCCURRING IN THE COURSE OF LABOR AND DELIVERY (O60-O75)	*	0	0	0	*	0	*	0	0	*	0
COMPLICATIONS OF THE PUERPERIUM^a (O85-O92)	*	*	*	7	0	0	*	*	6	*	*
ALL OTHER	0	*	*	8	*	7	*	20	11	30	40
TOTAL	10†	10†	10†	20†	10†	10†	10†	30†	23	30†	40†

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

**TABLE 1C-3
FETAL AND PERINATAL DEATHS AND RATES BY YEAR, ARIZONA, 2009-2019**

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
NUMBER OF ALL REPORTED FETAL DEATHS Includes spontaneous and induced terminations of pregnancy at 20 or more weeks of gestation (or if gestational age unknown, the deaths of fetuses of at least 350 grams or more) and some stillbirths prior to 20 weeks and of any weight. Excludes fetal deaths occurring in Arizona to out-of-State residents.	717	671	714	654	775	885	861	615	605	588	640
NUMBER OF REPORTABLE FETAL DEATHS Includes spontaneous and induced terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight).	621	581	619	588	554	653	665	613	602	583	638
NUMBER OF REPORTABLE SPONTANEOUS FETAL LOSSES Includes spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight). Excludes induced terminations of pregnancy.	511	443	470	470	545	519	524	486	481	472	489
RATE OF REPORTABLE SPONTANEOUS FETAL LOSSES^a	5.5	5.1	5.5	5.5	6.4	6.0	6.1	5.7	5.9	5.8	6.1
NUMBER OF PERINATAL DEATHS	524	483	465	487	483	551	510	475	472	501	453
Spontaneous fetal losses of 28 or more weeks of gestation	243	214	216	221	262	265	275	236	238	247	247
Infant deaths of less than 7 days	281	269	249	266	221	286	235	239	234	254	206
PERINATAL DEATH RATE^b	5.6	5.5	5.4	5.7	5.7	6.5	6.0	5.6	5.8	6.2	5.7

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, 2009-2019**

Characteristic	Year										
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Total reportable spontaneous fetal losses	511	443	470	470	545	519	524	486	481	472	489
Gender											
Male	262	229	218	239	260	293	296	248	226	222	271
Female	244	208	245	222	256	222	225	227	234	246	215
Unknown	*	6	7	9	29	*	*	11	21	*	*
Mother's race/ethnicity											
White non-Hispanic	197	156	192	195	247	205	200	204	207	205	187
Hispanic or Latino	204	198	181	181	205	182	227	195	171	174	196
Black or African American	52	39	27	36	40	48	50	47	47	42	58
American Indian or Alaska Native	46	30	43	43	40	47	40	36	40	36	37
Asian or Pacific Islander	11	17	27	15	13	17	7	*	16	15	11
Refused/Unknown	*	*	0	0	0	20	0	0	0	0	0
Mother's age group											
<15	0	*	0	*	0	0	0	0	0	0	0
15-17	26	18	14	16	18	25	18	10	7	8	7
18-19	40	33	35	37	34	27	30	27	25	16	26
20-24	111	104	117	130	115	120	101	94	104	85	89
25-29	126	114	111	100	159	131	135	123	118	138	132
30-34	105	74	114	98	123	117	122	121	125	125	133
35-39	76	75	56	58	79	67	83	71	75	75	76
40-44	24	20	22	27	13	30	27	36	18	22	24
45+	*	*	*	*	*	0	*	*	*	*	0
Unknown	*	*	0	*	*	*	*	*	6	0	*
Gestational age^b											
20-27 weeks	264	227	255	248	282	250	248	239	241	223	242
28+ weeks	243	214	215	221	262	265	275	236	238	247	247
Unknown	*	*	0	*	*	*	*	11	*	*	0
Weight in grams											
<350 grams	110	105	96	119	108	99	117	97	99	93	120
350-499	69	66	80	68	73	74	75	77	75	60	61
500-2,499	219	173	193	179	229	236	216	217	199	216	202
2,500-3,999	89	74	80	87	103	85	85	77	81	91	95
4,000+	13	20	11	14	6	9	9	6	14	8	7
Unknown	11	*	10	*	26	16	22	12	13	*	*

Notes: * Cell suppressed due to non-zero count less than 6; ^a Includes spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight), excludes abortions; ^b For statistical purposes, fetal deaths are classified according to gestational age; a death that occurs at 20 or more weeks of gestation constitutes a fetal death, and after 28 weeks it is considered a late fetal death.



1D.

ABORTIONS

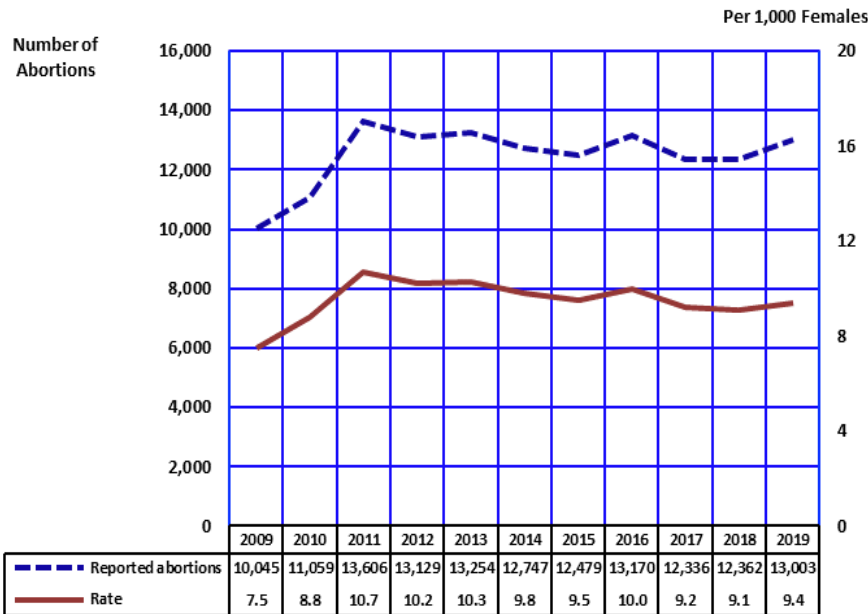
In July 1976, the Arizona Department of Health Services (ADHS) began an Abortion Surveillance Program (*Arizona Administrative Code, R9-19-302D*, as authorized by the *Arizona Revised Statute 36-344*). The program required the reporting of induced terminations of pregnancy performed in hospitals, outpatient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

In 2010, SB1304 was passed by the legislature that statutorily required the reporting of abortions and treatment of complications associated with abortions. In addition, the Administrative Office of the Courts was required to report the number of petitions received by the court for authorization to perform abortions on unemancipated minors as prescribed in Arizona Revised Statutes §36-2152. The collection of this information began on July 29, 2010.

Based on the information collected on race/ethnicity in the abortion reporting system, the racial/ethnic groups described in this section differ from that of other sections. In 2019, 3.8 percent (494) of abortion records had race and ethnicity identified as unknown, and 2.2 percent (290) of abortion records had two or more racial/ethnic groups identified. Due to the proportion of information on race/ethnicity that could not be categorized by the five racial/ethnic groups used through this report, this section reports numbers for records with unknown or multiple race information as separate groups.

1D. ABORTIONS

Figure 1D-1
Number of Reported Abortions and Abortion Rates^a by Year,
Arizona Residents, 2009-2019



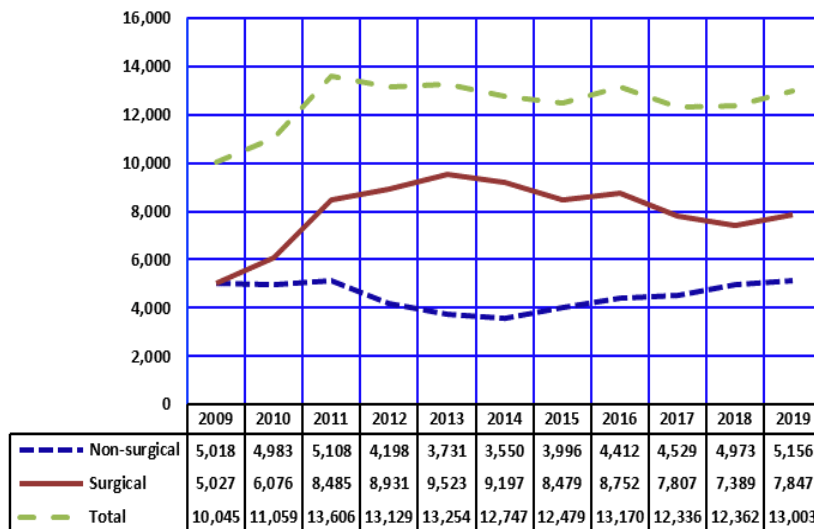
During calendar year 2019, the Arizona Department of Health Services received a total of 13,003 reports of abortions obtained by Arizona residents, 641 more than the 12,362 reported in 2018 (**Figure 1-D1, Table 1D-1**).

There were 12,957 abortions in non-hospital clinics (**Table 1D-1**). Hospitals accounted for 41 abortion procedures, with less than 6 procedures being performed outside of clinics and hospitals.

Ninety-one percent of all reported abortions occurred at or before 13 weeks of pregnancy. Few reported abortions occurred after 14 or more weeks of gestation (**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, 2009-2019

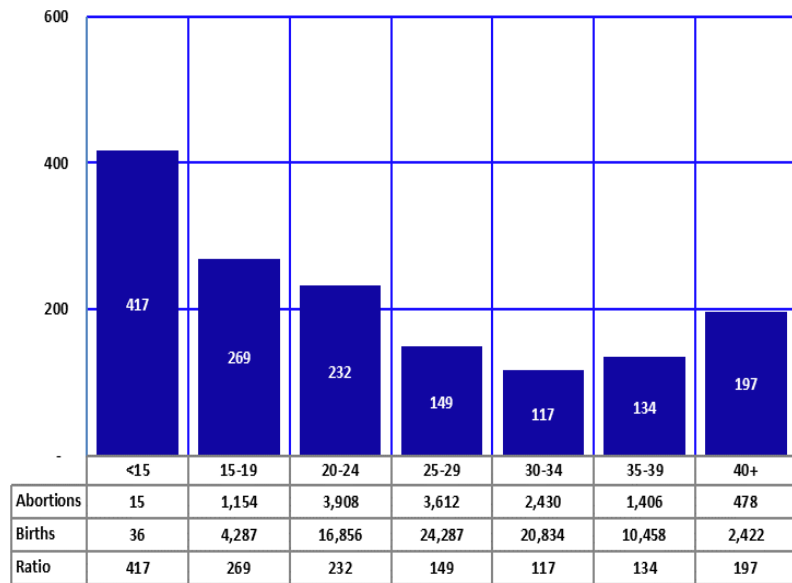


The rate of induced terminations of pregnancy per 1,000 female residents aged 15-44 increased from 9.1 in 2018 to 9.4 in 2019 (**Table 1D-1**).

Trends in the percent of abortions conducted through surgical and non-surgical from 2009 to 2019 indicate shifting practices in methods used to complete abortions. In 2008, 61.6 percent of all abortion procedures were surgical procedures. By 2009, the number of abortions performed by surgical versus non-surgical means was nearly equal. Since then, the proportion of abortions conducted through surgical means has again increased, with 60.3 percent of all abortion procedures conducted in 2019 being surgical procedures.

1D. ABORTIONS

Figure 1D-3
Abortion Ratios^a by Age Group, Arizona Residents, 2019

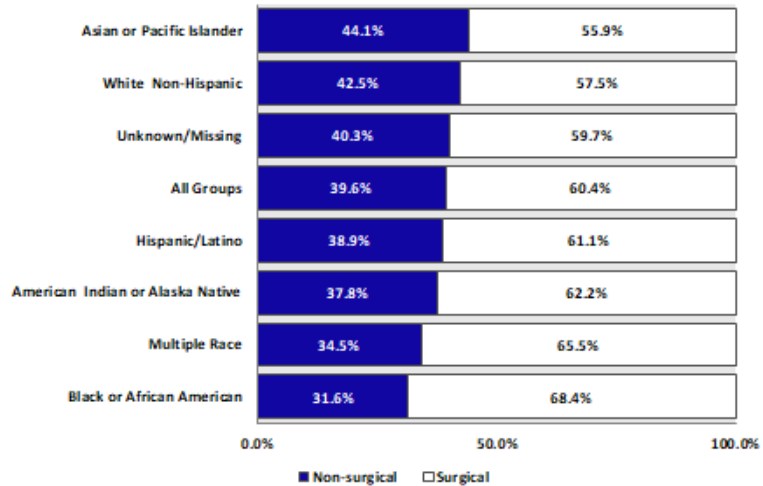


Abortion ratios (the number of abortions per 1,000 live births in each age group) vary by age at reported termination of pregnancy. Ratios tend to be higher at the extremes of the age distribution of the childbearing period, i.e., among women under age 15 and those aged 40 years or older (**Figure 1D-3**).

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

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

Figure 1D-4
Proportional Contribution of Non-Surgical^a and Surgical Abortions by Race/Ethnicity, Arizona Residents, 2019



In 2019, non-surgical (also called “medical”) abortions made up 39.6 percent of all procedures reported in Arizona. The proportion of non-surgical abortion was the highest among Asian or Pacific Islander, and exceeded the average for all groups (**Figure 1D-4**). The proportion of surgical abortions was substantially higher among Black or African American women than women of other racial/ethnic groups.

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

**TABLE 1D-1
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 2009-2019**

Characteristics	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
ABORTIONS PERFORMED IN ARIZONA	10,271	11,438	14,401	13,340	13,401	12,900	12,655	13,332	12,533	12,438	13,097
RESIDENT ABORTIONS	10,045	11,059	13,606	13,129	13,254	12,747	12,479	13,170	12,336	12,362	13,003
RACE/ETHNICITY											
White non-Hispanic	4,759	5,241	2,385	1,904	2,515	5,562	5,378	5,321	4,762	4,807	4,798
Hispanic or Latino	3,303	3,422	4,274	3,393	4,189	4,499	4,350	4,823	4,639	4,679	5,093
Black or African American	736	476	145	116	189	981	1,074	1,253	1,196	1,229	1,372
American Indian	300	218	48	38	61	291	331	340	348	315	344
Asian or other Pacific Islander	390	254	47	75	110	534	532	608	598	552	612
Multiple race ^a	NA	NA	4,442	2,985	4,257	361	175	244	216	259	290
Refused/Unknown	557	1,448	2,265	4,618	1,933	519	639	581	577	521	494
AGE											
19 years and under	1,519	1,512	1,785	1,539	1,441	1,249	1,189	1,297	1,179	1,146	1,169
20-29 years	5,753	6,278	7,814	7,602	7,676	7,520	7,265	7,680	7,245	7,212	7,520
30 years and over	2,532	3,113	4,007	3,987	4,136	3,978	4,021	4,186	3,912	4,004	4,314
Not stated	241	156	NA	*	*	0	*	7	0	0	0
YEARS OF EDUCATION											
Elementary/secondary (1-12)	5,244	4,316	4,757	3,615	2,400	1,372	2,561	3,234	3,228	3,457	3,971
College (1-4 or 5+)	3,372	3,199	2,252	2,518	2,522	2,706	3,203	3,801	3,365	2,966	3,355
Not stated or unknown	1,429	3,544	6,597	6,996	8,332	8,064	6,715	6,135	5,743	5,939	5,677
WEEKS OF GESTATION											
12 weeks or under	9,238	9,967	12,156	11,677	11,767	11,232	11,062	11,762	10,917	10,924	11,510
13 weeks or over	597	948	1,427	1,432	1,487	1,507	1,411	1,396	1,419	1,438	1,493
Not stated or unknown	210	144	23	20	0	8	6	12	0	0	0
FACILITY											
Clinic	9,362	9,689	14,358	13,072	13,023	12,671	12,065	13,139	12,301	12,308	12,957
Hospital	0	16	42	54	152	70	24	27	31	51	41
Other	683	^d 1,354	0	*	79	6	390	*	*	*	*

**TABLE 1D-1 (continued)
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 2009-2019**

Characteristics	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
PREVIOUS LIVE BIRTHS											
None	4,377	4,867	5,820	5,829	5,810	5,201	5,267	5,586	5,326	5,430	5,656
One or more	5,668	6,178	7,772	7,280	7,387	7,337	7,187	7,542	6,972	6,856	7,212
PREVIOUS ABORTIONS											
None	5,874	6,746	8,382	8,445	8,450	7,872	7,843	8,177	7,900	7,893	8,406
One or more	4,171	4,282	5,183	4,616	4,672	4,616	4,549	4,913	4,365	4,346	4,424
PREVIOUS SPONTANEOUS TERMINATIONS OF PREGNANCY											
None	8,424	9,300	11,257	10,941	10,825	10,241	10,146	10,462	9,930	9,932	10,460
One or more	1,621	1,643	2,301	2,108	2,283	2,213	2,220	2,613	2,307	2,302	2,324
NONSURGICAL ABORTIONS											
	5,018	4,983	5,108	4,198	3,731	3,550	3,996	4,412	4,529	4,973	5,156
ABORTION RATIO^b	108.5	127.0	159.7	153.2	156.0	147.1	146.8	156.0	151.1	153.5	164.2
ABORTION RATE^c	7.5	8.8	10.7	10.2	10.3	9.8	9.5	10.0	9.2	9.1	9.4

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

**TABLE 1D-2
PROPORTION, RATES, AND RATIOS^a OF ABORTIONS BY RACE/ETHNICITY PER YEAR, ARIZONA, 2009-2019**

Race and Ethnicity	Year										
	2009	2010	2011 ^c	2012	2013	2014	2015	2016	2017	2018	2019
Percent of Abortions^b											
White non-Hispanic	47.4	47.4	17.5	14.5	19.0	43.6	43.1	40.4	38.6	38.9	36.9
Hispanic or Latino	32.9	30.9	31.4	25.8	31.6	35.3	34.9	36.6	37.6	37.8	39.2
Black or African American	7.3	4.3	1.1	0.9	1.4	7.7	8.6	9.5	9.7	9.9	10.6
American Indian or Alaska Native	3.0	2.0	0.4	0.3	0.5	2.3	2.7	2.6	2.8	2.5	2.6
Asian or Pacific Islander	3.9	2.3	0.3	0.6	0.8	4.2	4.3	4.6	4.8	4.5	4.7
Multiple races	NA	NA	32.6	22.7	32.1	2.8	1.4	1.9	1.8	2.1	2.2
Refused/Unknown	5.5	13.1	16.6	35.2	14.6	4.1	5.1	4.4	4.7	4.2	3.8
Abortion Rates^c											
White non-Hispanic	6.4	8.2	3.7	2.9	3.8	8.6	8.3	8.3	7.4	7.5	7.4
Hispanic or Latino	8.0	8.0	9.9	7.7	9.3	10.6	9.1	9.9	9.3	9.2	9.7
Black or African American	13.3	8.5	2.5	2.0	3.2	12.8	16.3	18.4	17.0	16.8	18.0
American Indian or Alaska Native	3.6	3.2	0.6	0.6	0.9	3.4	5.1	5.2	5.2	4.7	5.1
Asian or Pacific Islander	8.7	5.2	0.9	1.6	2.3	8.5	9.2	10.1	9.9	8.8	9.1
Multiple races	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Refused/Unknown	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Abortion Ratio^d											
White non-Hispanic	120	135	62	49	66	139	141	141	133	138	141
Hispanic or Latino	86	100	132	102	127	133	127	142	140	142	156
Black or African American	168	110	33	25	40	217	246	286	260	264	282
American Indian or Alaska Native	49	37	8	7	11	57	65	68	72	67	77
Asian or Pacific Islander	115	77	13	21	32	169	164	181	180	169	194
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, 2019**

Age	Gestational Age					
	≤13 weeks		14 to 20 weeks		≥21 or more weeks	
	Count	Percent	Count	Percent	Count	Percent
<15 yrs	13	86.7	*	**	0	0.0
15-19 yrs	1,022	88.6	113	9.8	19	1.6
20-24 yrs	3,589	91.8	279	7.1	40	1.0
25-29 yrs	3,315	91.8	260	7.2	37	1.0
30-34 yrs	2,207	90.8	185	7.6	38	1.6
35-39 yrs	1,261	89.7	118	8.4	27	1.9
≥40 yrs	437	91.4	36	7.5	*	**
Totals	11,844	91.1	990†	7.6	170†	1.3

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

**TABLE 1D-4
ABORTIONS BY WEEK OF GESTATION AND RACE/ETHNICITY, ARIZONA, 2019**

Week of gestation	Total	Race/ethnicity							Multiple race	Refused / Unknown race
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Multiple race	Refused / Unknown race		
Total	13,003	4,798	5,093	1,372	340†	610†	290†	490†		
6 weeks or less	3,831	1,576	1,360	332	68	246	76	173		
7	2,631	981	1,032	262	61	139	47	109		
8	1,908	686	779	212	45	62	53	71		
9	1,408	500	592	161	42	48	21	44		
10	751	265	299	84	34	22	20	27		
11	623	186	267	85	21	20	18	26		
12	358	114	147	54	13	10	8	12		
13	334	103	144	42	11	10	9	15		
14	252	78	102	36	10	14	7	*		
15	240†	74	110	29	8	7	*	*		
16	150†	46	69	14	8	*	9	*		
17	110†	35	44	16	*	7	*	*		
18	100†	37	36	11	*	*	6	0		
19	70†	27	26	7	*	*	*	*		
20	80†	27	30	12	*	*	*	*		
21+	170†	63	56	15	15	12	*	*		

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