

CHAPTER 1

REPRODUCTIVE AND PERINATAL HEALTH, ARIZONA, 1999-2009

- 1A. PREGNANCIES BY PREGNANCY OUTCOME,
ETHNICITY AND AGE GROUP**
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AND NEWBORN'S HEALTH**
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1A.

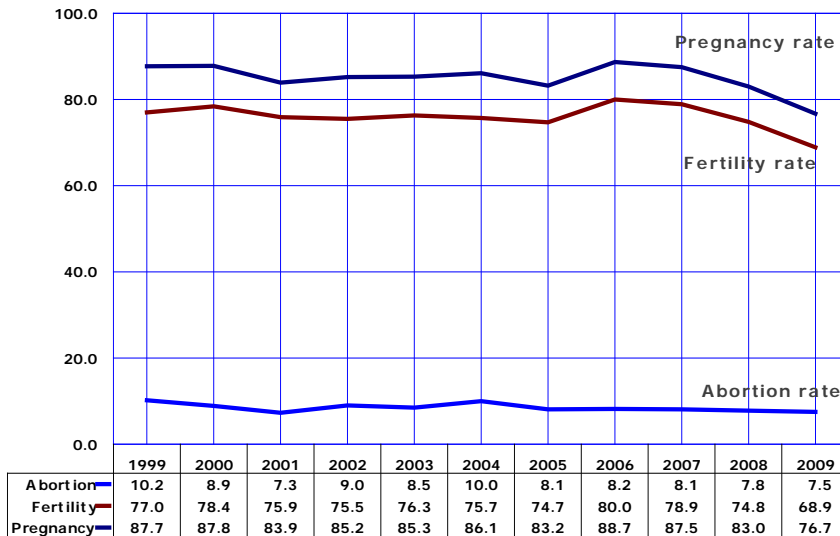
PREGNANCIES BY PREGNANCY OUTCOME, RACE/ETHNICITY AND AGE GROUP

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 **induced terminations of pregnancy** (or abortions; Section 1D).

There were 103,172 pregnancies in Arizona in 2009 compared to 113,756 in 2007, a decrease of 9.3 percent. Among the three pregnancy outcomes, the number of resident live births decreased by 9.8 percent from 102,687 in 2007 to 92,616 in 2009 (**Table 1A-1**). The number of reported abortions declined by 4.2 percent from 10,486 in 2007 to 10,045 in 2009. The number of reportable spontaneous fetal losses decreased by 12.4 percent from 583 reported in 2007 to 511 in 2009.

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

Figure 1A-1
Pregnancy Rates by Outcome and Year among Females of all Ages,
Arizona, 1999-2009



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 rates declined for the third consecutive year from 88.7 pregnancies per 1,000 females 15-44 years old in 2006 to 76.7/1,000 in 2009 (**Figure 1A-1, Table 1A-1**).

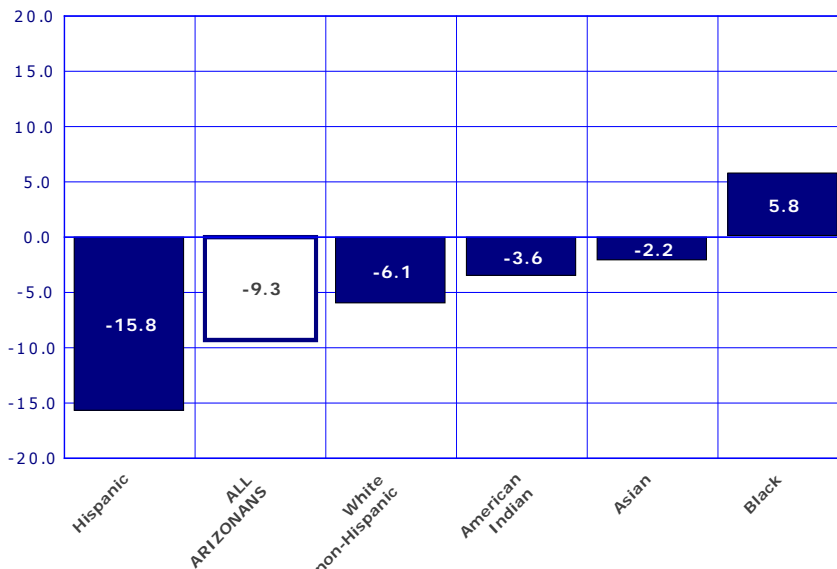
The fertility rate (the number of births per 1,000 women of childbearing age) also declined by 13.9 percent from 80.0/1,000 in 2006 to 68.9/1,000 in 2009.

The abortion rate (the number of abortions per 1,000 women of childbearing age) decreased by 8.5 percent from 8.2 abortions per 1,000 women aged 15-44 years in 2006 to 7.5/1,000 in 2009.

The reader is strongly encouraged to read a paragraph in the "Introduction" about counts of vital events since 2007 'How the recession and changes in the law impacted the frequency counts of vital events since 2007'. While the decrease in the frequency counts reflects a reality, all the rates in this section are based on the assumption that the population denominators continued to increase after 2007. This assumption most likely is wrong.

Note: All rates are per 1,000 females 15-44 years old. The fertility rate is the number of births per 1,000 females aged 15-44 years.

Figure 1A-2
Percent Change from 2007 to 2009 in Pregnancy Rates by
Woman's Race/Ethnicity, Arizona



Pregnancy rate = the number of pregnancies per 1,000 females aged 15-44 years in specified race/ethnicity group.

In fact, the American Community Survey (a product of the U.S. Bureau of the Census) is expected to release in October, 2010 the revised estimates. The average annual estimated population of Arizona in 2006-2008 is likely to be 6.25 million, approximately 345,000 less than the U.S. Census Bureau number of 6,596 million we are using in this report.

If the population in the denominator declined in 2007-2009 proportionately to the decline in the numerator, the rates would not have changed

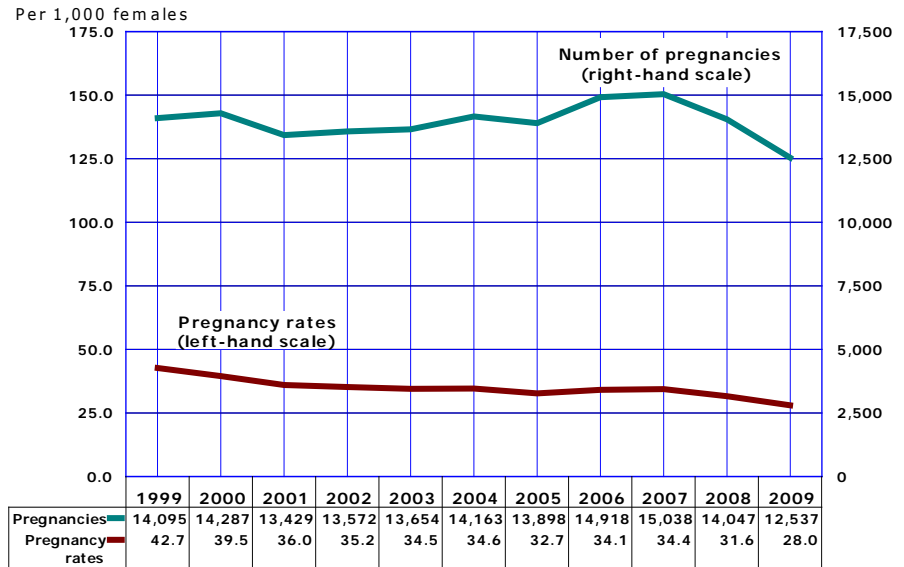
The changes in the pregnancy rates from 2007 to 2009 varied by woman's race/ethnicity. The pregnancy rate rose by 5.8 percent for Black or African American women (**Figure 1A-2**). The pregnancy rates for non-Hispanics (other than Blacks) declined by 5.1 percent. In contrast, Hispanic or Latino women experienced a substantial decrease of 15.8 percent, 3.1 times greater than the overall decline for non-Hispanic Arizona resident women.

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

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

The number of teen pregnancies decreased by 16.6 percent from 15,038 in 2007 to 12,537 in 2009 (Figure 1A-3), the lowest number since 1993. The teen pregnancy rate declined even more, by 18.6 percent, from 34.4 pregnancies per 1,000 females 10-19 years in 2007 to 28.0/1,000 in 2009, the lowest rate since at least 1980. The drop in the rate has been enough to offset the estimated growth in the female teenage population by 2.5 percent from 2007 to 2009.

Figure 1A-3
Trends in the Number of Pregnancies and Pregnancy Rates among Females 19 or Younger, Arizona, 1999-2009

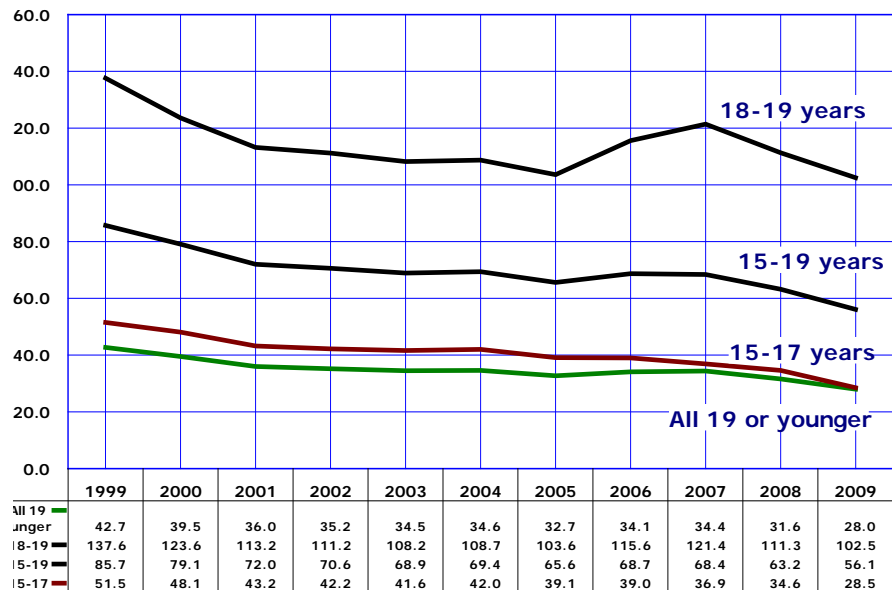


Pregnancy rate = the number of pregnancies per 1,000 females aged 19 years or younger.

Figure 1A-4
Pregnancy Rates by Age Group and Year among Females 19 or Younger, Arizona, 1999-2009

The pregnancy rate for Arizona teenagers 15-19 years old in 2009 was 56.1 pregnancies per 1,000 females (Figure 1A-4, Table 5A-2), 18.3 percent lower than in 2006. The pregnancy rate for younger teenagers 15-17 years old declined by 26.9 percent (Table 1A-3) from 39.0/1,000 in 2006 to 28.5/1,000 in 2009. The pregnancy rate for older teenagers 18-19 years old declined by 15.6 percent from 121.4/1,000 in 2007 to 102.5/1,000 in 2009 (Table 1A-4).

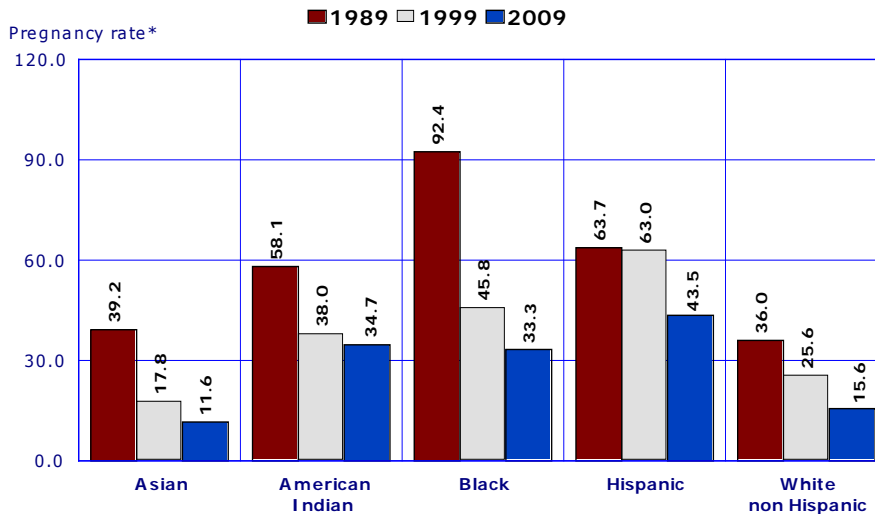
County-level information about teen pregnancies and pregnancy rates is provided in Table 5A-2, Table 5A-3 and Table 5A-5. Pregnancy statistics for Arizona are not available on a sub-county level and the information in Table 9A is limited to the number of births to mothers 19 years or younger by community.



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

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

Figure 1A-5
Comparison of Pregnancy Rates by Race/Ethnicity and Year among Females 19 or Younger in Arizona, 1989, 1999 and 2009



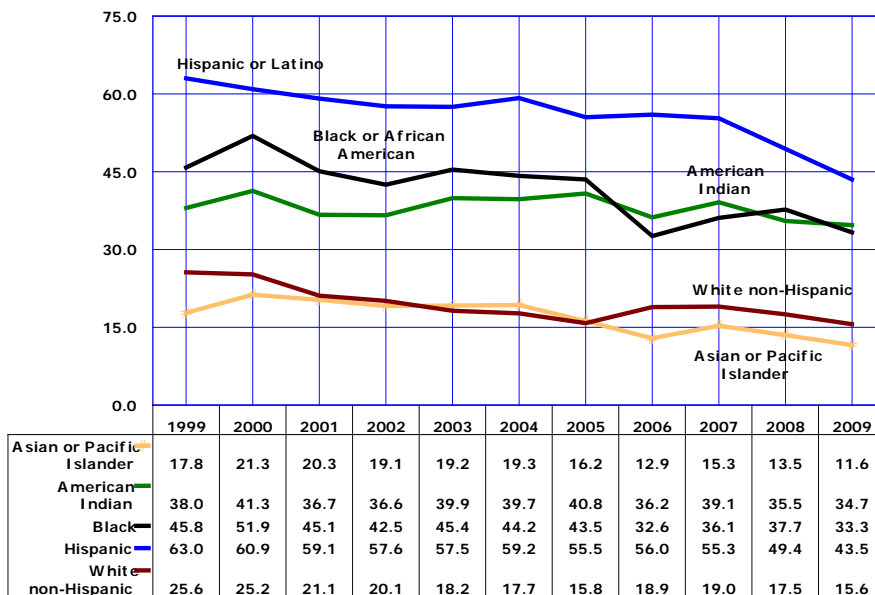
* Number of pregnancies per 1,000 females 10-19 years old in specified group.

Teen pregnancy rates differ sharply by race/ethnicity.

Between 1989 and 1999, pregnancy rates among females aged 19 and younger declined for all race/ethnicity groups except Hispanics or Latinos. (Figure 1A-6). The steepest decline in pregnancy rates was recorded for Blacks or African Americans. The teen pregnancy rate for this group decreased by 50.4 percent from 92.4 in 1989 to 45.8 in 1999.

The changes in annual teen pregnancy rates from 1999 to 2009 are shown in detail below.

Figure 1A-6
Pregnancy Rates by Race/Ethnicity and Year among Females 19 or Younger, Arizona, 1999-2009



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

The teen pregnancy rates for all race and ethnic groups were lower in 2009 than in 1999 (Figure 1A-6).

After a substantial decrease of 38.3 percent between 1999 and 2005, the pregnancy rate for White non-Hispanic increased by 20.3 percent from 15.8/1,000 in 2005 to 19.0/1,000 in 2007. The pregnancy rate for this group declined again in 2009 to 15.6/1,000. The pregnancy rate for Blacks or African Americans decreased by 37.2 percent from 2000 to 2006. The pregnancy rate for this group then increased both in 2007 and 2008. In 2009 the pregnancy rate for Black or African American teens declined by 11.7 percent to 33.3/1,000.

The pregnancy rate for Hispanic or Latino females 19 years old or younger decreased from 56.0/1,000 in 2006 to 49.4/1,000 in 2008, and 43.5/1,000 in 2009. The 2009 pregnancy rate for Hispanic or Latino teens was 31 percent lower than their 1999 rate of 63/1,000.

The pregnancy rates for 1997-1999 were revised in 2007 using the population denominators that are consistent with the 2000 census. The populations estimated previously from the 1990 census underestimated the growth of the Hispanic population during the 1990s. According to the 2000 census, there were 118,490 Hispanic females 19 years or younger in Arizona, 37.5 percent more than the estimated number of 86,203 in 1999.

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, 2009

In 2009, Hispanic females accounted for approximately 35.3 percent of all females 10-19 years old in Arizona. As in the past, they made a significantly higher proportional contribution to teen pregnancies (55.0 percent) and live births (57.9 percent; **Figure 1A-7**). In contrast, White non-Hispanic females had a lower proportional contribution to teen pregnancies (27.6 percent) and live births (24.8 percent). Note: percentages are based on the number of pregnancies and births in **Table 1A-5**.

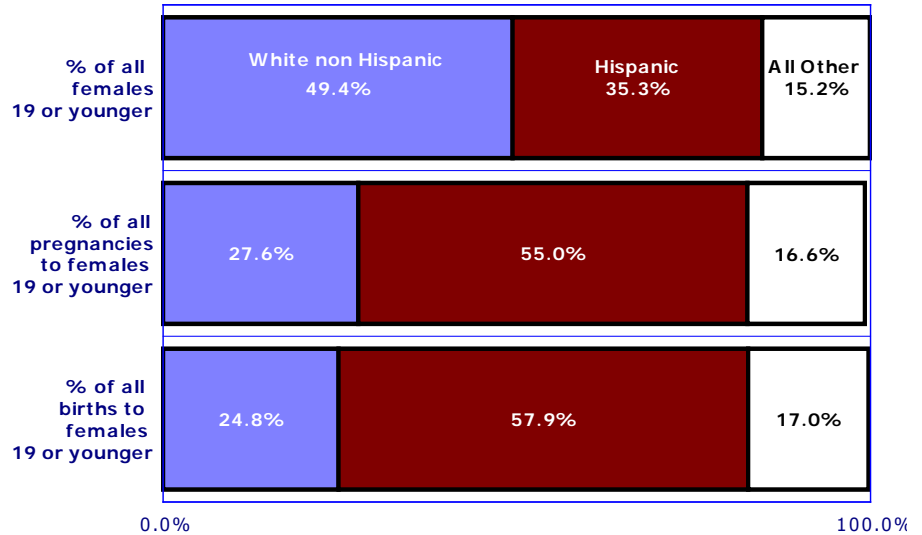
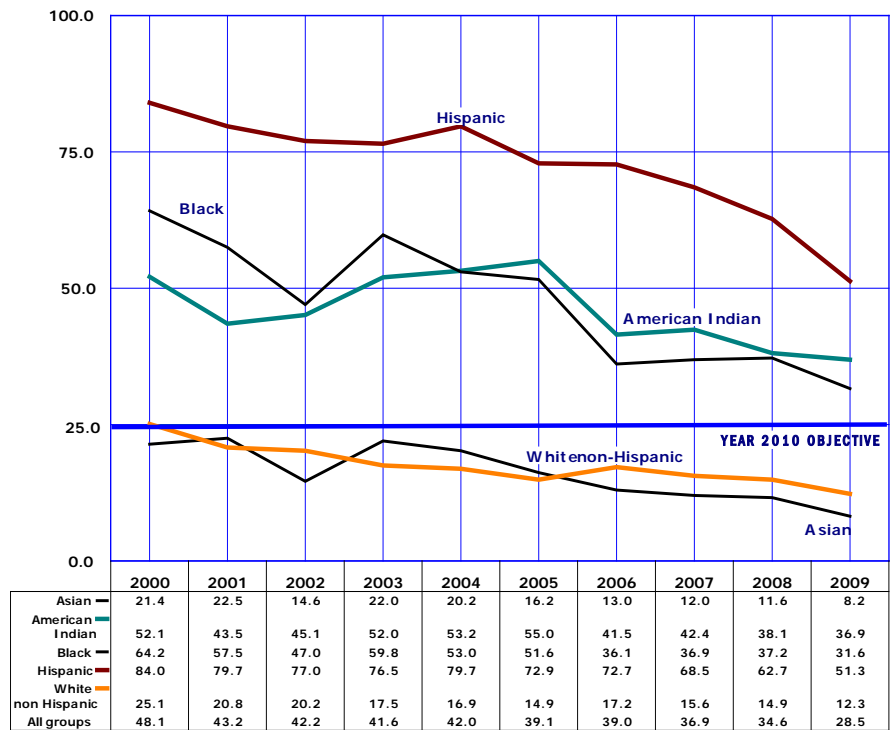


Figure 1A-8
Pregnancy Rates by Race/Ethnicity and Year among Females 15-17 Years: 2000-2009 and the "Healthy Arizona 2010" Objective

In 2009, the pregnancy rate of 28.5 pregnancies per 1,000 adolescent girls 15-17 years old in Arizona was 14.0 percent greater than the **Healthy Arizona 2010** objective of 25.0/1,000 (**Figure 1A-8**, **Table 1A-3**). The 2009 pregnancy rate among Asians ages 15-17 was 67.2 percent lower, and among White non-Hispanics 50.8 percent lower than the objective. In contrast, the 2009 pregnancy rate among Hispanics 15-17 years old exceeded the target rate by 105.2 percent, or 2.1 times.



Note: All rates are per 1,000 females 15-17 years old in specified race/ethnicity group.

**TABLE 1A-1
NUMBER OF PREGNANCIES¹ BY PREGNANCY OUTCOME, RACE/ETHNICITY AND YEAR WITH RATES², ARIZONA, 1999-2009**

Race/ethnicity Pregnancy outcome	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2009 Rates
WHITE³ NON-HISPANIC, total:	44,078	44,900	43,116	44,038	43,928	45,236	44,296	48,329	47,633	46,860	44,737	60.0
Births	38,711	39,850	38,934	38,819	38,842	39,271	39,657	43,013	42,216	41,925	39,781	53.3
Abortions	4,868	4,786	3,917	4,909	4,887	5,726	4,431	5,106	5,202	4,737	4,759	6.4
Fetal deaths	499	264	265	310	199	239	208	210	215	198	197	0.3
HISPANIC OR LATINO, total:	33,688	37,162	38,118	39,989	42,788	45,534	45,500	48,266	49,717	45,997	41,869	100.8
Births	30,784	33,893	35,103	36,089	39,101	40,822	42,156	44,862	45,731	42,639	38,362	92.4
Abortions	2,904	2,955	2,737	3,566	3,441	4,485	3,112	3,160	3,719	3,124	3,303	8.0
Fetal deaths	NA	274	278	334	246	227	232	244	267	234	204	0.5
BLACK OR AFRICAN AMERICAN, total:	3,204	3,326	3,218	3,364	3,558	3,972	4,068	4,484	4,884	5,089	5,166	93.6
Births	2,699	2,760	2,736	2,753	3,022	3,216	3,450	3,864	4,165	4,301	4,378	79.3
Abortions	465	531	450	556	495	723	585	581	675	744	736	13.3
Fetal deaths	40	35	32	55	41	33	33	39	44	44	52	0.9
AMERICAN INDIAN OR ALASKA NATIVE, total:	5,596	5,902	5,622	5,883	6,279	6,497	6,691	6,744	6,757	6,706	6,516	77.9
Births	5,295	5,602	5,340	5,545	5,881	6,120	6,293	6,364	6,408	6,362	6,170	73.8
Abortions	253	253	220	285	357	341	353	342	310	297	300	3.6
Fetal deaths	48	47	62	53	41	36	45	38	39	47	46	0.5
ASIAN OR PACIFIC ISLANDER, total:	2,081	2,304	2,326	2,568	2,804	3,075	3,195	3,537	3,883	3,856	3,797	85.0
Births	1,875	2,041	2,104	2,281	2,524	2,614	2,805	3,136	3,412	3,425	3,396	76.0
Abortions	201	250	207	273	272	444	379	391	454	412	390	8.7
Fetal deaths	5	13	15	14	8	17	11	10	17	19	11	0.2
ALL RACE/ETHNIC GROUPS³, total:	91,761	95,268	94,142	98,548	101,476	106,252	106,776	113,091	113,756	110,155	103,172	76.7
Births	80,505	84,985	85,213	87,379	90,783	93,396	95,798	102,042	102,687	99,215	92,616	68.9
Abortions	10,656	9,631	8,226	10,397	10,154	12,301	10,446	10,506	10,486	10,396	10,045	7.5
Fetal deaths	600	652	703	772	539	*505	532	543	583	544	511	0.4
Pregnancy rate, total:	87.7	87.8	83.9	85.2	85.3	86.1	83.2	88.7	87.5	83.0	76.7	
Fertility rate⁴	77.0	78.4	75.9	75.5	76.3	75.7	74.7	80.0	78.9	74.8	68.9	
Abortion rate	10.2	8.9	7.3	9.0	8.5	10.0	8.1	8.2	8.1	7.8	7.5	

¹The 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). *The total number of fetal deaths for 2004 was revised from 555 to 505. For the revised 2004 counts of fetal deaths by race/ethnicity see Table 1C-4.

²All rates per 1,000 females of childbearing age (15-44 years).

³Includes other and unspecified ethnicity.

⁴Number of births per 1,000 females of childbearing age.

**TABLE 1A-2
NUMBER OF PREGNANCIES¹ BY PREGNANCY OUTCOME, RACE/ETHNICITY AND YEAR AMONG FEMALES AGED 17 AND YOUNGER
WITH RATES², ARIZONA, 1999-2009**

Race/ethnicity Pregnancy outcome	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2009 Rates
WHITE³ NON-HISPANIC, total:	1,566	1,462	1,250	1,245	1,131	1,129	1,028	1,204	1,165	1,074	894	5.0
Births	1,146	1,078	960	847	805	764	728	871	805	784	669	3.7
Abortions	395	367	278	387	322	360	293	324	353	287	218	1.2
HISPANIC OR LATINO, total:	2,763	2,991	2,930	2,926	2,993	3,198	3,043	3,281	3,286	3,057	2,496	19.0
Births	2,564	2,711	2,684	2,654	2,746	2,916	2,858	3,046	3,007	2,835	2,340	17.8
Abortions	199	250	221	250	224	267	172	217	254	207	144	1.1
BLACK OR AFRICAN AMERICAN, total:	275	227	240	207	256	241	247	255	268	266	221	12.2
Births	236	210	206	164	207	192	207	194	207	215	187	10.3
Abortions	34	47	31	34	46	47	37	57	55	48	31	1.7
AMERICAN INDIAN OR ALASKA NATIVE, total:	450	476	384	409	501	495	530	477	504	452	436	15.3
Births	427	425	365	392	471	473	499	449	471	430	411	14.4
Abortions	20	15	10	15	28	18	25	25	30	19	22	0.8
ASIAN OR PACIFIC ISLANDER, total:	40	41	44	30	47	46	39	43	43	41	30	3.3
Births	29	30	29	20	39	26	29	29	31	27	20	2.2
Abortions	11	11	15	10	8	20	10	14	12	14	9	1.0
ALL RACE/ETHNIC GROUPS⁴, total:	5,296	5,294	4,914	4,951	5,027	5,188	5,029	5,347	5,300	4,970	4,101	11.2
Births	4,474	4,500	4,278	4,158	4,321	4,415	4,364	4,620	4,541	4,312	3,633	9.9
Abortions	787	741	586	749	674	747	636	693	718	634	442	1.2
Pregnancy rate, total:	19.9	18.4	16.5	16.1	15.9	15.9	14.8	15.1	14.8	13.7	11.2	
Fertility rate⁵	16.8	15.6	14.3	13.5	13.7	13.5	12.9	13.0	12.7	11.9	9.9	
Abortion rate	3.0	2.6	2.0	2.4	2.1	2.3	1.9	2.0	2.0	1.7	1.2	

¹Fetal deaths are included in the total counts of pregnancies.

²All rates per 1,000 females 10-17 years old.

³Not of Hispanic origin.

⁴Includes other and unspecified ethnicity.

⁵Number of births per 1,000 females 10-17 years old.

**TABLE 1A-3
NUMBER OF PREGNANCIES¹ BY PREGNANCY OUTCOME, RACE/ETHNICITY AND YEAR AMONG FEMALES 15-17 YEARS OLD
WITH RATES², ARIZONA, 1999-2009**

Race/ethnicity Pregnancy outcome	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2009 Rates
WHITE³ NON-HISPANIC, total:	1,505	1,397	1,197	1,202	1,090	1,093	996	1,157	1,067	1,038	863	12.3
Births	1,115	1,040	926	824	782	747	711	852	779	769	649	9.3
Abortions	369	342	262	367	304	341	278	296	282	266	207	3.0
HISPANIC OR LATINO, total:	2,598	2,823	2,771	2,761	2,819	3,040	2,885	3,131	3,126	2,911	2,401	51.3
Births	2,415	2,567	2,552	2,507	2,600	2,779	2,721	2,923	2,892	2,724	2,253	48.1
Abortions	183	228	199	235	197	247	151	193	210	173	136	2.9
BLACK OR AFRICAN AMERICAN, total:	254	242	224	189	247	228	234	239	242	248	212	31.6
Births	222	198	193	152	204	180	199	187	195	203	181	26.9
Abortions	27	42	28	30	40	46	32	48	42	43	28	4.2
AMERICAN INDIAN OR ALASKA NATIVE, total:	408	421	363	388	461	473	505	457	470	428	419	36.9
Births	389	405	348	374	434	452	478	430	445	408	394	34.7
Abortions	17	13	7	12	25	17	21	24	22	17	22	1.9
ASIAN OR PACIFIC ISLANDER, total:	38	40	44	29	45	44	38	39	39	38	27	8.2
Births	28	29	29	19	38	25	28	28	31	26	18	5.4
Abortions	10	11	15	10	7	19	10	11	8	12	1	2.4
ALL RACE/ETHNIC GROUPS⁴, total:	4,993	5,016	4,661	4,696	4,755	4,955	4,790	5,105	4,975	4,740	3,945	28.5
Births	4,236	4,284	4,080	3,952	4,110	4,227	4,179	4,450	4,361	4,151	3,501	25.3
Abortions	727	684	540	705	614	703	582	624	576	567	418	3.0
Pregnancy rate, total:	51.5	48.1	43.2	42.2	41.6	42.0	39.1	39.0	36.9	34.6	28.5	
Fertility rate⁵	43.7	41.1	37.8	35.5	35.9	35.8	34.1	34.0	32.3	30.3	25.3	
Abortion rate	7.5	6.6	5.0	6.3	5.4	6.0	4.8	4.8	4.3	4.1	3.0	

¹Fetal deaths are included in the total counts of pregnancies.

²All rates per 1,000 females 15-17 years old.

³Not of Hispanic origin.

⁴Includes other and unspecified ethnicity.

⁵Number of births per 1,000 females 15-17 years old.

**TABLE 1A-4
NUMBER OF PREGNANCIES¹ BY PREGNANCY OUTCOME, RACE/ETHNICITY AND YEAR AMONG FEMALES 18-19 YEARS OLD
WITH RATES², ARIZONA, 1999-2009**

Race/ethnicity Pregnancy outcome	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2009 Rates
WHITE³ NON-HISPANIC, total:	3,349	3,352	2,925	2,857	2,772	2,795	2,603	2,944	2,936	2,778	2,560	59.6
Births	2,723	2,681	2,436	2,217	2,165	2,042	2,016	2,338	2,295	2,209	2,046	47.6
Abortions	586	653	468	623	592	735	574	593	629	554	502	11.7
HISPANIC OR LATINO, total:	3,938	4,222	4,309	4,361	4,483	4,767	4,705	5,115	5,259	4,707	4,400	164.2
Births	3,597	3,837	3,964	3,931	4,046	4,222	4,330	4,692	4,775	4,333	4,001	149.3
Abortions	341	360	313	400	406	517	350	392	456	354	381	14.2
BLACK OR AFRICAN AMERICAN, total:	434	433	382	398	408	430	441	476	498	546	501	141.7
Births	367	362	339	304	342	348	362	407	414	441	416	117.6
Abortions	62	68	40	84	61	78	77	67	81	95	79	22.3
AMERICAN INDIAN OR ALASKA NATIVE, total:	665	700	669	673	714	720	759	800	849	794	793	114.0
Births	623	664	648	647	670	669	705	767	814	755	759	109.1
Abortions	36	28	19	25	40	47	51	30	33	35	30	4.3
ASIAN OR PACIFIC ISLANDER, total:	96	96	90	100	87	102	93	89	124	108	99	48.7
Births	79	70	75	76	68	66	67	63	72	86	68	33.4
Abortions	17	26	15	24	19	36	25	26	51	22	31	15.2
ALL RACE/ETHNIC GROUPS⁴, total:	8,799	8,993	8,515	8,621	8,627	8,975	8,869	9,571	9,738	9,077	8,436	102.5
Births	7,489	7,689	7,512	7,316	7,379	7,448	7,569	8,296	8,431	7,849	7,319	89.0
Abortions	1,259	1,247	942	1,246	1,193	1,473	1,256	1,226	1,261	1,179	1,077	13.1
Pregnancy rate, total:	137.6	123.6	113.2	111.2	108.2	108.7	103.6	115.6	121.4	111.3	102.5	
Fertility rate⁵	117.1	105.7	99.9	94.3	92.5	90.2	88.4	100.2	105.1	96.3	89.0	
Abortion rate	19.7	17.1	12.5	16.1	15.0	17.8	14.7	14.8	15.7	14.5	13.1	

¹Fetal deaths are included in the total count of pregnancies.

²All rates per 1,000 females 18-19 years old.

³Not of Hispanic origin.

⁴Includes other and unspecified ethnicity.

⁵Number of births per 1,000 females 18-19 years old.

**TABLE 1A-5
NUMBER OF PREGNANCIES¹ BY PREGNANCY OUTCOME, RACE/ETHNICITY AND YEAR AMONG FEMALES 19 AND YOUNGER,
WITH RATES², ARIZONA, 1999-2009**

Race/ethnicity Pregnancy outcome	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2009 Rates
WHITE³ NON-HISPANIC, total:	4,915	4,814	4,175	4,102	3,903	3,924	3,631	4,148	4,101	3,852	3,454	15.6
Births	3,869	3,759	3,396	3,064	2,970	2,806	2,744	3,209	3,100	2,993	2,715	12.3
Abortions	981	1,020	746	1,010	914	1,095	867	917	982	841	720	3.2
HISPANIC OR LATINO, total:	6,701	7,213	7,239	7,287	7,476	7,965	7,748	8,396	8,545	7,764	6,896	43.5
Births	6,161	6,548	6,648	6,585	6,792	7,138	7,188	7,738	7,782	7,168	6,341	40.0
Abortions	540	610	534	650	630	784	522	609	710	561	525	3.3
BLACK OR AFRICAN AMERICAN, total:	669	620	622	605	664	671	688	731	766	812	722	33.3
Births	603	572	545	468	549	540	569	601	621	656	603	27.8
Abortions	96	115	71	118	107	125	114	124	136	143	110	5.1
AMERICAN INDIAN OR ALASKA NATIVE, total:	1,155	1,216	1,053	1,082	1,215	1,215	1,289	1,277	1,353	1,246	1,229	34.7
Births	1,050	1,089	1,013	1,039	1,141	1,142	1,204	1,216	1,285	1,185	1,170	33.0
Abortions	56	43	29	40	68	65	76	55	63	54	52	1.5
ASIAN OR PACIFIC ISLANDER, total:	136	137	134	130	134	148	132	132	167	149	129	11.6
Births	108	100	104	96	107	92	96	92	103	113	88	7.9
Abortions	28	37	30	34	27	56	35	40	63	36	40	3.6
ALL RACE/ETHNIC GROUPS⁴, total:	14,095	14,287	13,429	13,572	13,654	14,163	13,898	14,918	15,038	14,047	12,537	28.0
Births	11,963	12,189	11,790	11,474	11,700	11,863	11,933	12,916	12,972	12,161	10,952	24.4
Abortions	2,046	1,988	1,528	1,995	1,867	2,220	1,892	1,919	1,979	1,813	1,519	3.4
Pregnancy rate, total:	42.7	39.5	36.0	35.2	34.5	34.6	32.7	34.1	34.4	31.6	28.0	
Fertility rate⁵	36.2	33.7	31.6	29.8	29.5	29.0	28.1	29.6	29.7	27.4	24.4	
Abortion rate	6.2	5.5	4.1	5.2	4.7	5.4	4.5	4.4	4.5	4.1	3.4	

¹Fetal deaths are included in the total counts of pregnancies.

²All rates per 1,000 females 19 or less years old.

³Not of Hispanic origin.

⁴Includes other and unspecified ethnicity.

⁵Number of births per 1,000 females 19 or less years old.

**TABLE 1A-6
NUMBER OF PREGNANCIES¹ BY PREGNANCY OUTCOME, AGE GROUP AND RACE/ETHNICITY, ARIZONA, 2009
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	103,172	156	3,945	8,436	27,355	28,949	21,218	10,377	2,292	193	251
Births	92,616	132	3,501	7,319	23,874	26,440	19,732	9,431	2,008	170	9
Abortions	10,045	24	418	1,077	3,370	2,383	1,381	870	260	21	241
Fetal deaths	511	0	26	40	111	126	105	76	24	2	1
White non Hispanic											
Total pregnancies	44,737	31	863	2,560	10,638	13,598	10,610	5,074	1,156	102	105
Births	39,781	20	649	2,046	9,012	12,437	9,933	4,601	987	94	2
Abortions	4,759	11	207	502	1,597	1,105	629	438	160	8	102
Fetal deaths	197	0	7	12	29	56	48	35	9	0	1
Hispanic or Latino											
Total pregnancies	41,869	95	2,401	4,400	12,135	11,013	7,376	3,580	725	41	103
Births	38,362	87	2,253	4,001	10,979	10,163	6,886	3,292	664	36	1
Abortions	3,303	8	136	381	1,104	801	453	262	52	4	102
Fetal deaths	204	0	12	18	52	49	37	26	9	1	0
Black or African American											
Total pregnancies	5,166	9	212	501	1,639	1,376	862	459	90	12	6
Births	4,378	6	181	416	1,371	1,169	752	396	77	10	0
Abortions	736	3	28	79	256	194	102	56	11	1	6
Fetal deaths	52	0	3	6	12	13	8	7	2	1	0
American Indian or Alaska Native											
Total pregnancies	6,516	17	419	793	2,152	1,573	943	485	123	6	5
Births	6,170	17	394	759	2,035	1,494	898	454	113	5	1
Abortions	300	0	22	30	101	72	38	25	7	1	4
Fetal deaths	46	0	3	4	16	7	7	6	3	0	0
Asian or Pacific Islander											
Total pregnancies	3,797	3	27	99	488	1,140	1,225	647	146	13	9
Births	3,396	2	18	68	383	1,037	1,157	597	126	8	0
Abortions	390	1	8	31	104	102	63	48	19	5	9
Fetal deaths	11	0	1	0	1	1	5	2	1	0	0
Other or unknown											
Total pregnancies	1,087	1	23	83	303	249	202	132	52	19	23
Births	529	0	6	29	94	140	106	91	41	17	5
Abortions	557	1	17	54	208	109	96	41	11	2	18
Fetal deaths	1	0	0	0	1	0	0	0	0	0	0

¹The sum of recorded live births, spontaneous fetal losses and induced terminations of pregnancy (or abortions).

**TABLE 1A-7
PREGNANCY RATES¹ AND NUMBER OF LIVE BIRTHS, FETAL DEATHS AND
ABORTIONS TO TEENS BY INDIVIDUAL AGE, ARIZONA, 2009**

Age	Population	PREGNANCIES BY OUTCOME			TOTAL PREGNANCIES	
		Live births	Induced terminations of pregnancy (or abortions)	Spontaneous fetal losses	Number	Rate
10	45,197	0	0	0	0	0.0
11	45,319	0	0	0	0	0.0
12	45,376	1	2	0	3	0.1
13	45,878	15	4	0	19	0.4
14	45,960	116	18	0	134	2.9
10-14	227,730	132	24	0	156	0.7
15	46,450	446	76	6	528	11.4
16	46,943	1,107	130	11	1,248	26.6
17	44,887	1,948	212	9	2,169	48.3
15-17	138,280	3,501	418	26	3,945	28.5
18	41,654	3,078	506	16	3,600	86.4
19	40,621	4,241	571	24	4,836	119.1
18-19	82,275	7,319	1,077	40	8,436	102.5
Total 10-19	448,285	10,952	1,519	66	12,537	28.0

¹Rates per 1,000 female population in specific group.



1B.

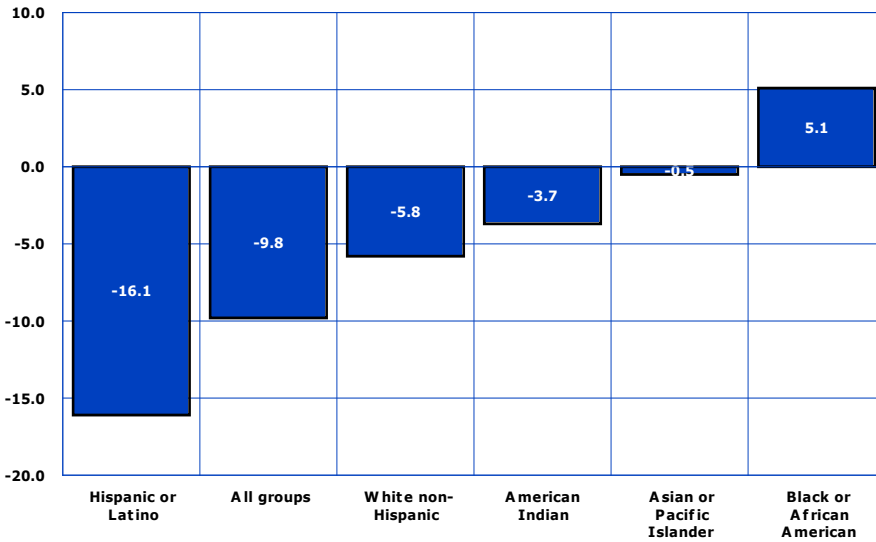
**NATALITY:
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The number of resident births reached its recent peak in 2007 at 102,687 (**Table 1B-2**). In 2008, the number of resident births declined to 99,215; the first annual decline since 1991 (which, like 2008, also was an economic downturn year). The number of resident births declined again in 2009 to 92,616.

There were striking differences in how the number of births changed from 2007 to 2009 by mother's race/ethnicity. Births rose by 5.1 percent for Black or African American mothers. The birth rates for all non-Hispanics combined (other than Blacks) declined by 5.5 percent. In contrast, Hispanic or Latino women experienced a substantial decrease of 16.1 percent, 2.9 times greater than the overall decline for non-Hispanic Arizona resident women (**Figure 1B-1**). It is important to note that Hispanics, unlike any other race/ethnic group in the State, faced in 2008 and 2009 not only the economic recession (shared by all), but also additional challenges such as the employer-sanction law (a penalty on employers hiring illegal immigrants), and a widespread practice of e-verify (checking the legal-residence status of those seeking employment). Considering all these factors, there is a reason to believe that there were fewer births among Hispanic or Latinos in 2008 and 2009, because there were fewer Hispanic or Latino residents of Arizona in 2008 and 2009, than there were in 2007. The decline in the number of births among Hispanic or Latino residents of the State accelerated in 2009. From 2007 to 2008 the number of Hispanic or Latino births decreased by 6.8 percent; from 2008 to 2009 the number of birth decreased by 10 percent. In 2009, for the first time since 2003, the number of births among White non-Hispanics (39,781) exceeded the number of Hispanic or Latino births (38,362).

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

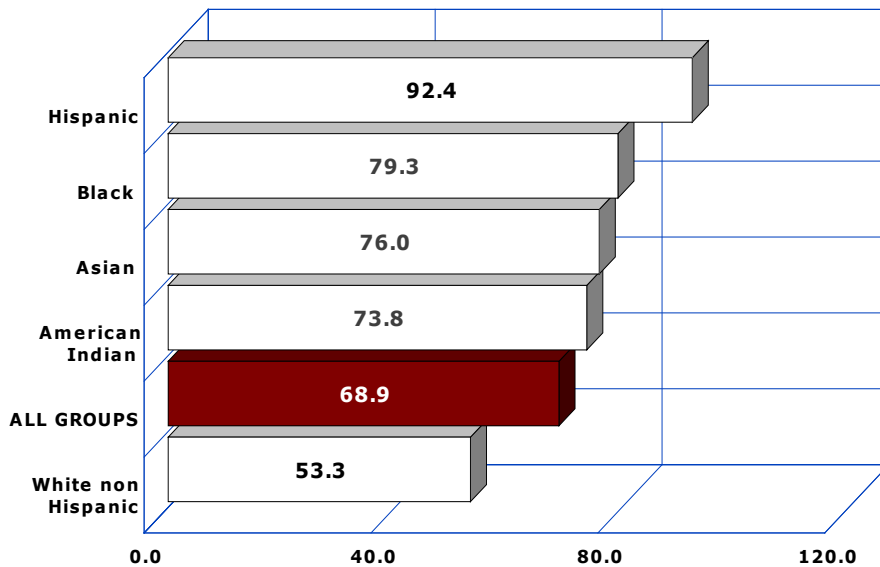
Figure 1B-1
Percent Change from 2007 to 2009 in the Number of Resident Live Births by
Mother's Race/Ethnicity, Arizona



In 2007, there were 45,731 births among the estimated number of 1,798,222 of Hispanic or Latino residents of the State for a birth rate of 25.4/1,000). The number of births among Hispanics declined to 42,639 in 2008 and again to 38,362 in 2009. If we were to reproduce the 2007 rate of birth for 2009 using the 38,362 births as the numerator, we could estimate the number of resident Hispanics in the State in 2009 at 1,510,315 $((38,362/1,510,315)*1,000=25.4)$, 287,907 fewer than in 2007. Similar exercise, this time using the 2006 rate of births of 26.5, $((38,362/1,447,623)*1,000=26.5)$ would measure the number of Hispanics who left Arizona since 2007 at 350,599 $(1,798,222-1,447,623)$.

Under the circumstances, it is important to treat the 2008 and 2009 fertility and birth rates for Hispanics (shown in this section) with caution. Perhaps, these rates have not declined; rather, the denominators used to calculate them, did.

Figure 1B-2
General Fertility Rates by Race/Ethnicity among Females of all Ages,
Arizona, 2009



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

From among 1,344,836 women of childbearing age (15-44 years), 6.9 percent gave birth in 2009. The *general fertility rate* (the number of births per 1,000 women 15-44 years old) continued to be the highest for Hispanic women (92.4 births per 1,000 or 9.2 percent). Fertility rates for Black or African American (79.3), Asian or Pacific Islander (76.0 births per 1,000), and American Indian women (73.8 per 1,000) were higher than the average for all groups (**Figure 1B-2, Table 1A-1**).

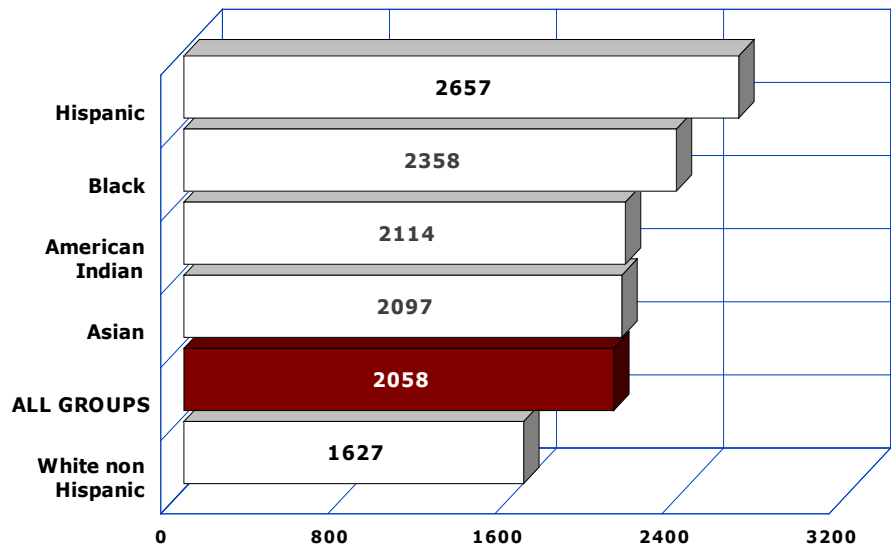
The 2009 fertility rates for all race/ethnic groups except Black or African American were below the 2007 levels.

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

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

Figure 1B-3
Total Fertility Rates by Race/Ethnicity, Arizona, 2009

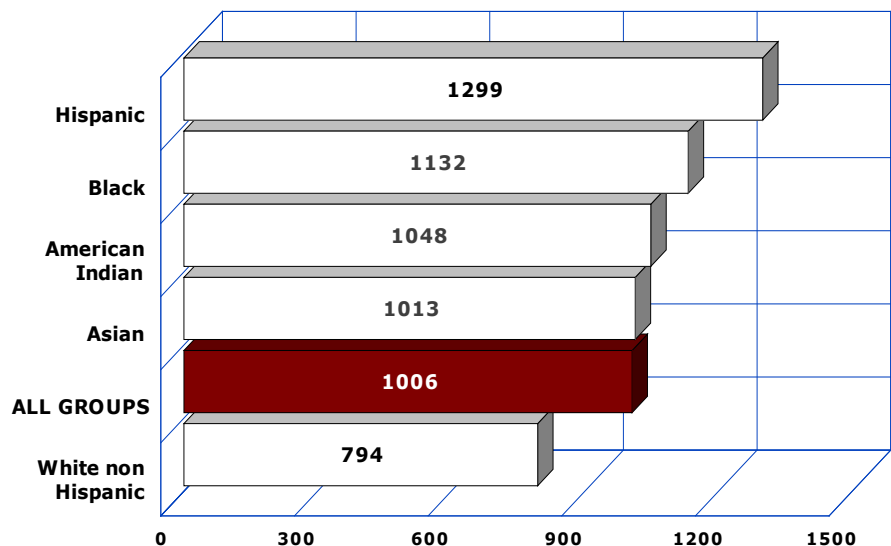
The *total fertility rate* indicates the average number of births to a hypothetical cohort of 1,000 women, if they experienced throughout their childbearing years the age-specific birth rates observed in a given year. From 1999 to 2008, the Arizona total fertility rates always exceeded the rate of "replacement" (2,110 births per 1,000 women, **Table 1B-1**). The "replacement" rate is considered the value at which a given generation can exactly replace itself. In 2009, the total fertility declined to 2,058 births per 1,000 women of childbearing age. The total fertility rates differed substantially by race/ethnicity (**Figure 1 B-3**). The 2009 total fertility rate of 2,657 for Hispanic women exceeded the generation replacement rate by 25.9 percent. The rate for White non-Hispanic women (1,627) was 22.9 percent lower than the replacement rate.



The sum of age group-specific birth rates multiplied by five (the number of years in the age group). The rate of 2,058 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 2009, they would have a total of 2,058 children (or 2.1 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 by Race/Ethnicity, Arizona, 2009

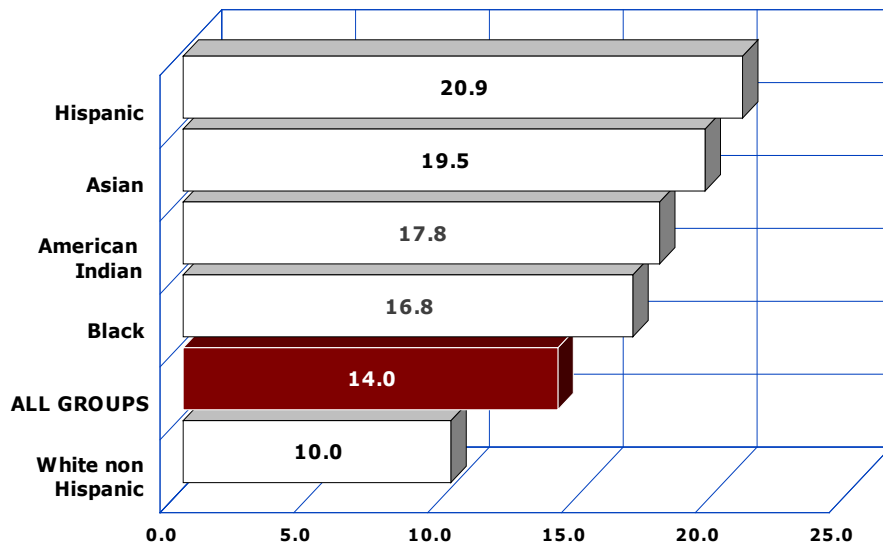
Another measure used to summarize reproduction patterns is the *gross reproduction rate*. It represents the average number of daughters born to a hypothetical cohort of 1,000 women if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. This measure 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 2009, the gross reproduction rates in Arizona ranged from 794 for White non-Hispanic women to 1,299 for Hispanic women (**Figure 1 B-4**, **Table 1B-1**).



The sum 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.

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

Figure 1B-5
Birth Rates per 1,000 Population by Race/Ethnicity, Arizona, 2009



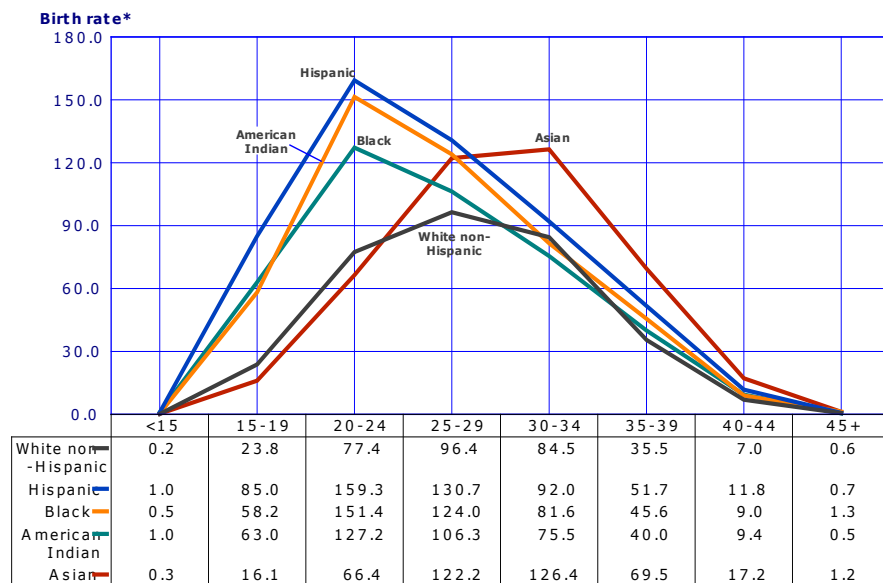
Number of births per 1,000 population in specified group.

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

Assuming that the number of births (the numerator) declined in 2008 and 2009, while the population of the State did not (the denominator), the birth rate for Arizona decreased by 12.5 percent from 16.0 births per 1,000 population in 2007 to 14.0/1,000 in 2009.

In 2008 the crude birth rates by mother's race/ethnicity ranged from 10.0 births per 1,000 White non-Hispanics to 20.9 per 1,000 Hispanics or Latinos (Figure 1B-5). Prior to 2007, the birth rates of Hispanics or Latinos ranged from 26.1/1,000 to 27.7/1,000.

Figure 1B-6
Birth Rates by Mother's Age Group and Race/Ethnicity, Arizona, 2009



*Number of births per 1,000 females in specified group.

The age-specific birth rates (the number of births to mothers in a particular age group per 1,000 women in that age group) differed substantially by race/ethnicity (Figure 1B-6).

In 2009, Hispanic or Latino women had the highest birth rates for women in age groups up to 29 years. In contrast, the birth rates for women aged 30 years or older were the highest among Asian or Pacific Islander women.

The birth rate for Asian or Pacific Islander women aged 40-44 (17.2 births per 1,000 women) was 2.5 times than the birth rate of 7.0/1,000 White non-Hispanic women 40-44 years old in 2009.

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

Figure 1B-7
Percent Births to Unmarried Mothers by Age Group, Arizona, 2009

Unmarried mothers have accounted for an increasing annual proportion of births throughout the 1980s and 1990s, with 45.2 percent in 2009 (Table 1B-2) marking a new historical high. In 2009, 41,856 infants were born to unmarried mothers compared to 31,272 in 1999.

A decade ago, the proportion of births among unmarried women aged 20-24 years was 51.1 percent. This proportion continued to rise by a percentage point on average per year between 1999 and 2009. In 2009, six out of ten (62.1 percent) mothers 20-24 years old were unmarried (Figure 1B-7).

Births and birth ratios by mother's marital status, age group, and race/ethnicity are given in Table 1B-23. County-level information is provided in Table 5B-14 and 5B-15. Community-level information is in Table 9A.

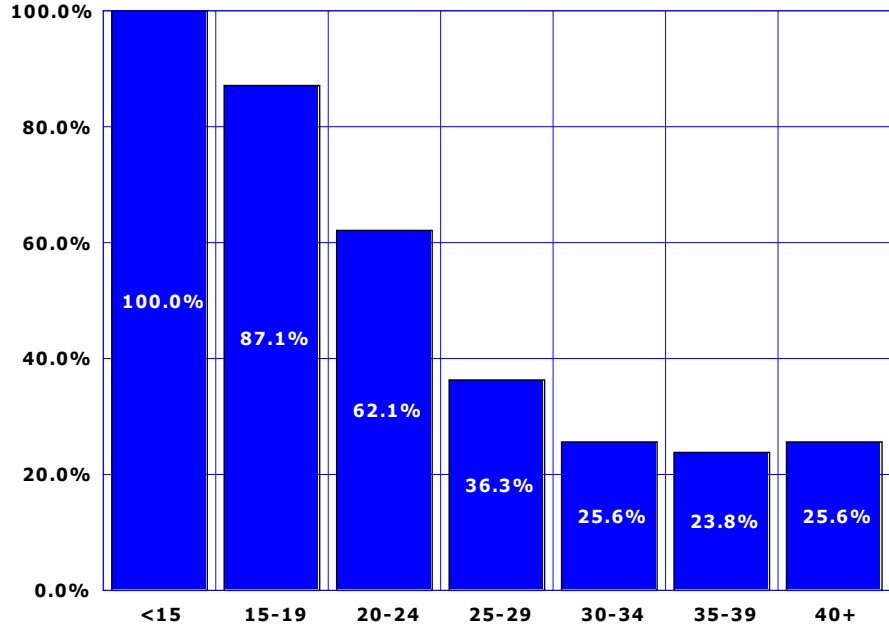
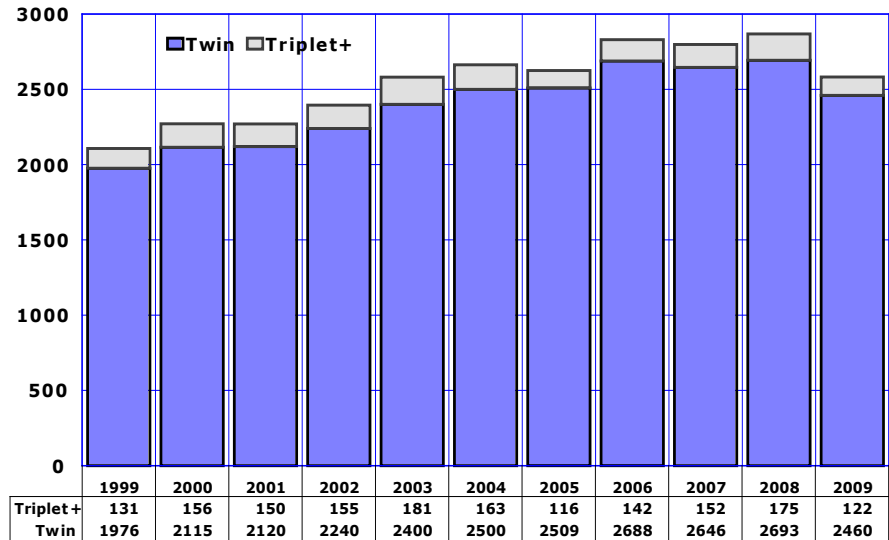


Figure 1B-8
Number of Births in Twin and Triplet+ Deliveries by Year, Arizona, 1999-2009

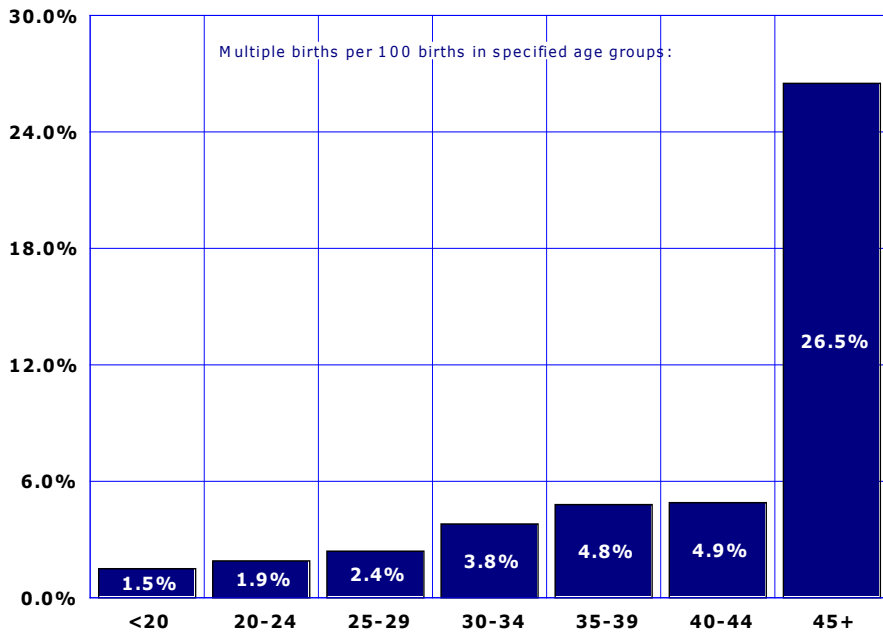
The number of multiple birth events in Arizona declined from 2,868 in 2008, (the highest number ever recorded) to 2,582 in 2009 (Figure 1B-8). The number of babies born in twin deliveries decreased from 2,693 in 2008 to 2,460 in 2009 (Figure 1B-8). The number of triplet and higher order multiple birth events decreased by 30.3 percent from 175 in 2007 to 122 in 2009.

The number of multiple birth events, as a proportion of total births, has decreased from 2.9 percent in 2008, to 2.8 percent in 2009 (Table 1B-2).



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

Figure 1B-9
Risk for Multiple Births by Mother's Age Group, Arizona, 2009

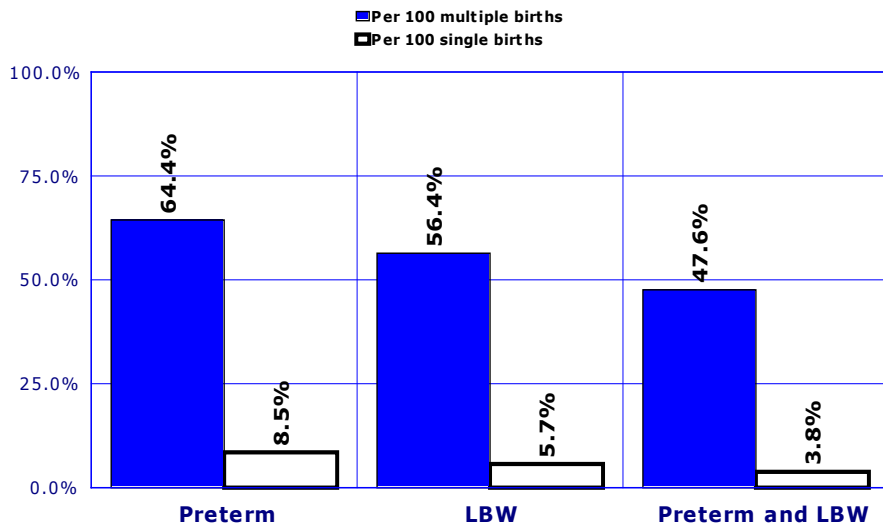


The rise in multiple births has been associated with two related trends: 1) advances in, and greater access to, assisted reproductive technology (ART), and 2) the older age of childbearing (women in their thirties and forties are more likely to have a multiple birth than younger women even without the use of fertility therapies).

In 2009, the proportion of multiple births increased with maternal age, with a precipitous rise at age 45 years and over. Among women aged 45 years and over 26.5 percent of all births were twins, triplets, or quadruplets (**Figure 1B-9**).

The birth rate for mothers aged 45 years or older doubled from 0.4/1,000 in 1999 to 0.8/1,000 in 2009 (**Table 1B-1**).

Figure 1B-10
Infants Born too Early (Preterm) and Infants Born too Small (LBW) among Multiple and Single Births, Arizona, 2009



Infants born in multiple deliveries tend to be born at shorter gestations and smaller than those born in singleton deliveries (**Figure 1B-10**). In 2009, infants born in multiple deliveries were 12.5 times more likely (47.6 vs. 3.8 percent) to be born earlier than expected (at less than 37 completed weeks of gestation) and smaller (at less than 2,500 grams) than singleton births.

Preterm birth is a leading cause of infant morbidity and mortality, accounting for almost two-thirds of infant deaths (67.1 percent; **Figure 2C-4** in section 2C on Age-Specific Mortality). The weight of the newborn also is an important predictor of future morbidity and mortality. For LBW infants, the risk of dying in the first year of life is more than 24 times that of normal weight infants (52.4 deaths per 1,000 births vs. 2.1/1,000; **Figure 2C-3**).

Preterm = < 37 weeks of gestation;
 LBW = low birthweight (less than 2,500 grams or 5 pounds 8 ounces).

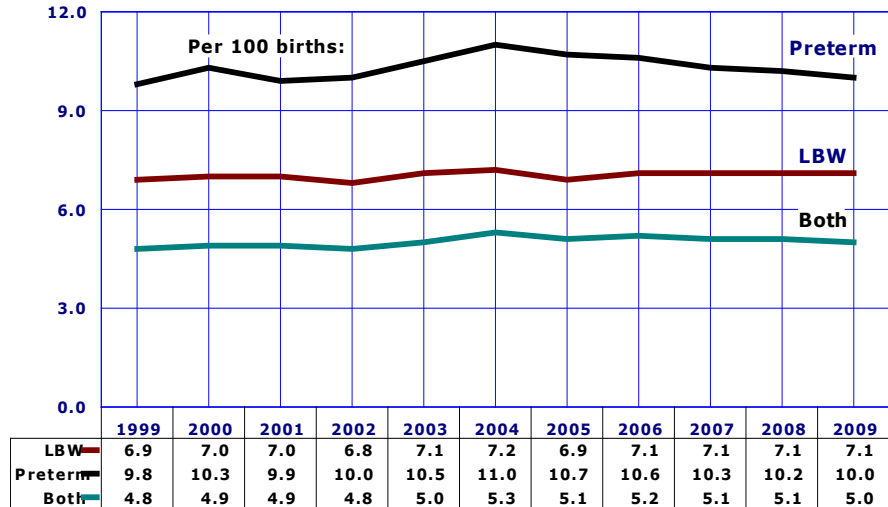
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-11
Preterm and Low Birthweight (LBW) Births by Year, Arizona, 1999-2009

The proportion of preterm births decreased by 9.1 percent from 11.0 percent of all births in 2004 to 10.0 percent in 2009.

The proportion of infants born earlier than expected and smaller (at less than 2,500 grams) changed slightly from 5.1 percent in 2007 and 2008 to 5.0 in 2009 (Figure 1B-11).

Detailed characteristics of births by birthweight and gestational age are provided in Table 1B-33. Comparative data by county of residence are available in Table 5B-16 – Table 5B-24.



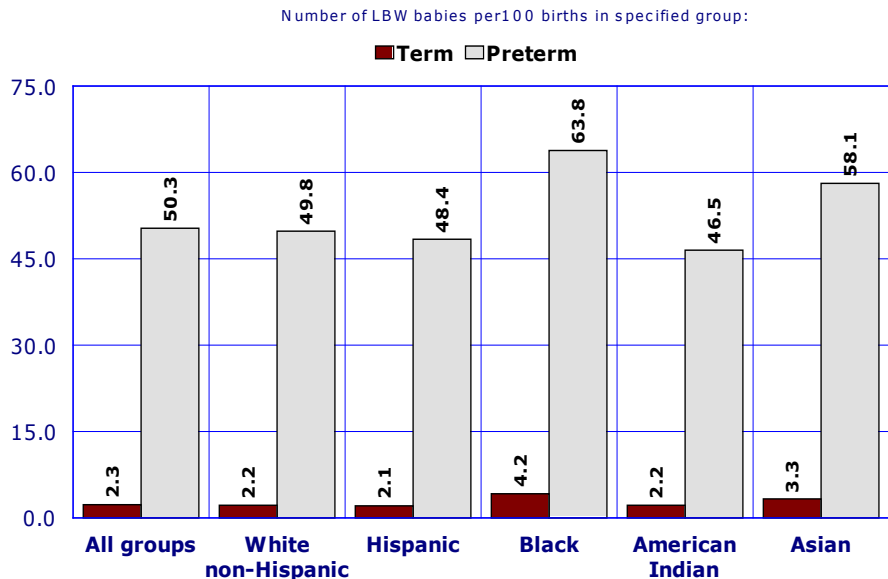
Preterm = < 37 weeks of gestation;
LBW = low birthweight (less than 2,500 grams or 5 pounds 8 ounces).

Note: 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, 2009

In 2006, 2007, 2008, and 2009, 7.1 percent of all babies were born at low birthweight (LBW), or at less than 2,500 grams (5 pounds 8 ounces). Preterm delivery is the strongest risk factor for LBW. Infants born at less than 37 completed weeks of gestation are 21.9 times (50.3 vs. 2.3 percent) more likely to be LBW than infants born at term (Figure 1B-12). Seven out of ten (71.2 percent) LBW babies born in 2009 were preterm (Table 1B-3).

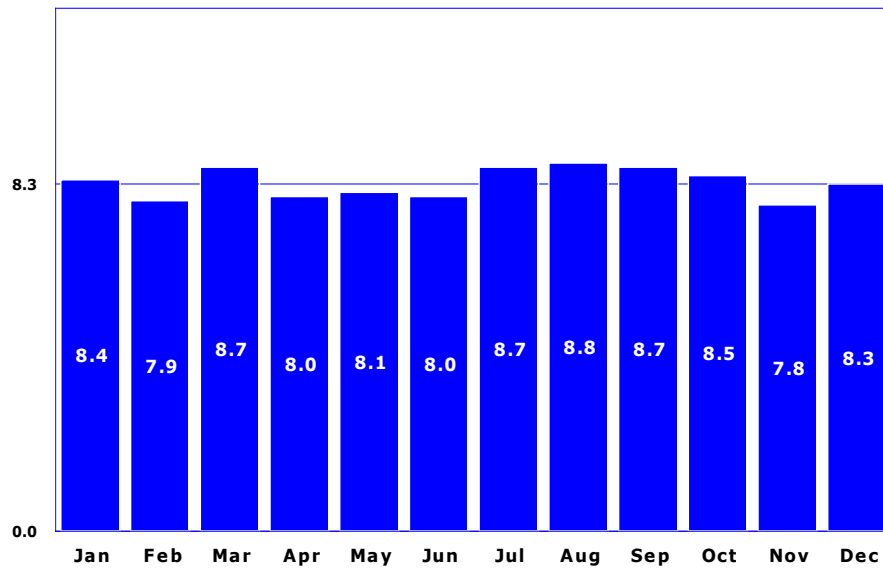
County-level data for LBW newborns are available in Tables 5B-16 – 5B-23. Community-level information is in Table 9A.



Preterm = < 37 weeks of gestation;
LBW = low birthweight (less than 2,500 grams or 5 pounds 8 ounces).

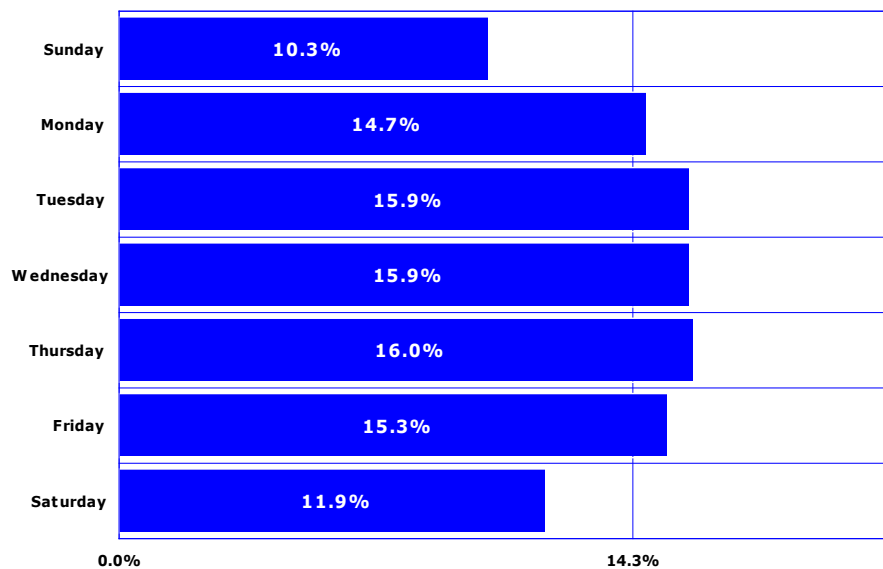
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

Figure 1B-13
Percent of Resident Births by Month, Arizona, 2009



If there was no monthly variation in proportional contribution to the annual birth total, 8.3 percent of births would occur monthly. However, seasonal fluctuations in births have been observed in virtually all historical and contemporary human populations. The American pattern is characterized by a trough in April - June, and a peak in July-October (**Figure 1B-13**).

Figure 1B-14
Percent of Resident Births by Day of the Week, Arizona, 2009



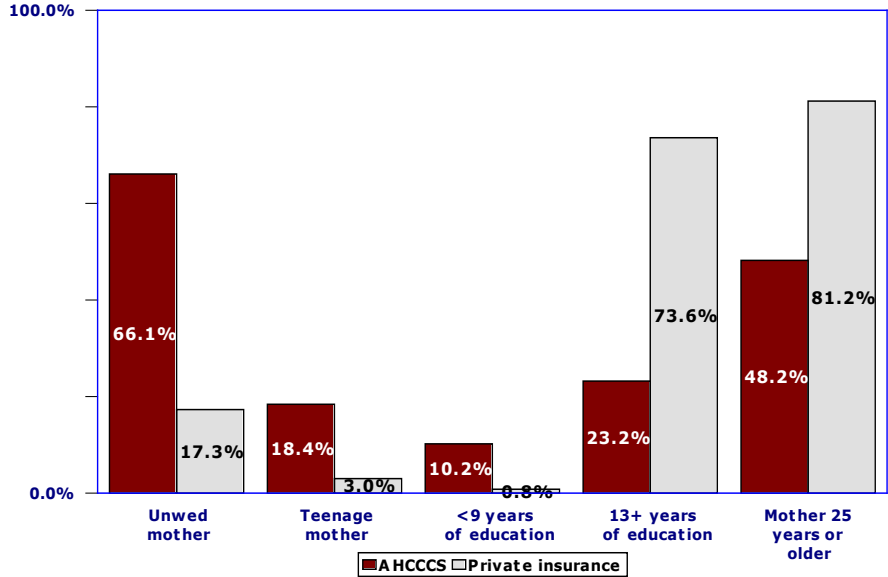
On average 254 infants were born per day in 2009 to Arizona residents. The daily average of resident live births in 2009 was substantially lower on weekends than on weekdays (**Figure 1 B-14**). Many studies suggest that weekly, daily and hourly variations observed in hospitals and clinics are not due 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 2009, only 5.1 percent of repeat cesarean deliveries occurred on Sundays, compared to 18.2 percent on Mondays. The rate of induction of labor was substantially lower on Saturdays (7.6 percent) than it was on Tuesdays or Wednesdays (17.2 percent).

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The number of years of maternal education was the only possible index 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. The payee's SES indicator is strongly related to the maternal education indicator. PHI mothers were 3.2 times more likely to have some college education than were AHCCCS mothers (73.6 and 23.2 percent respectively, **Figure 1 B-15**). More than ten percent of AHCCCS mothers had 0-8 years of education, thirteen times the proportion of PHI mothers. Only 17.3 percent of mothers with PHI were unmarried compared to 66.1 percent of AHCCCS mothers. Eight out of ten (81.2 percent) mothers with PHI were at least 25 years old compared to 48.2 percent of AHCCCS mothers.

Figure 1B-15
Comparison of Selected Sociodemographic Characteristics by the Payee for Delivery, Arizona, 2009

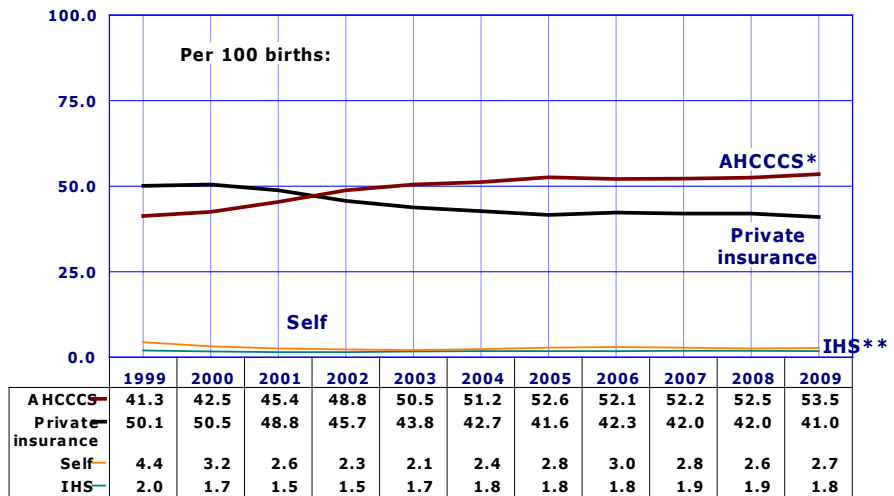


Note: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.

Since 2002, the share of resident births paid for by AHCCCS continues to exceed the share paid by private health insurance (**Figure 1 B-16**). In 1989, private insurance paid for a slight majority (50.6 percent) of all deliveries and AHCCCS was the payee for the next largest share of deliveries at 26.5 percent, followed by the payment by the women themselves at 12.1 percent.

The AHCCCS share increased from 52.5 percent of all deliveries in 2008 to 53.5 percent in 2009. The share of private health insurance declined from 42 percent in 2007 and 2008 to 41 percent in 2009. The payment source was the mothers themselves and/or their families (i.e., self-pay) in 2.7 percent of the deliveries. The Indian Health Service paid for 1.8 percent of the births in 2009, with 95 percent of those births to American Indian mothers (**Table 1B-28**; see also **Table 1B-25**).

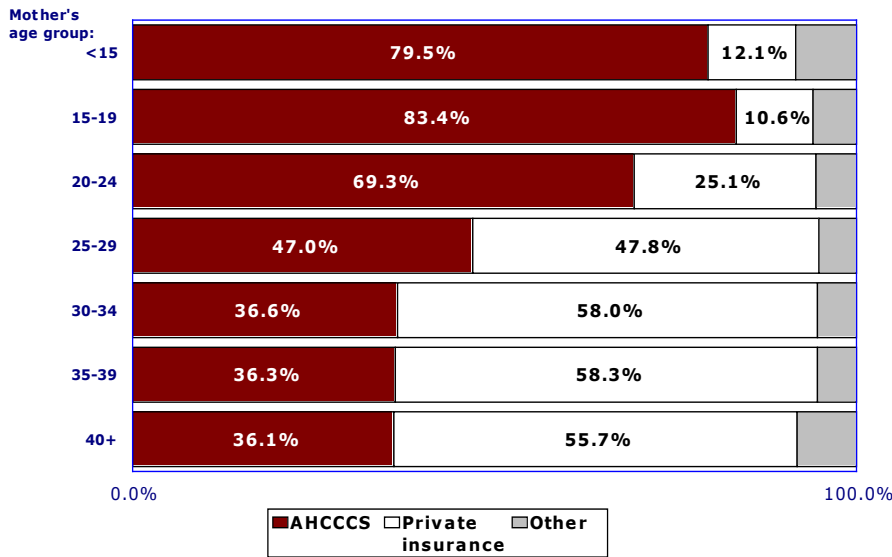
Figure 1B-16
Births by Payer and Year, Arizona, 1999-2009



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

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

Figure 1B-17
Payee for Delivery by Mother's Age Group, Arizona, 2009



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

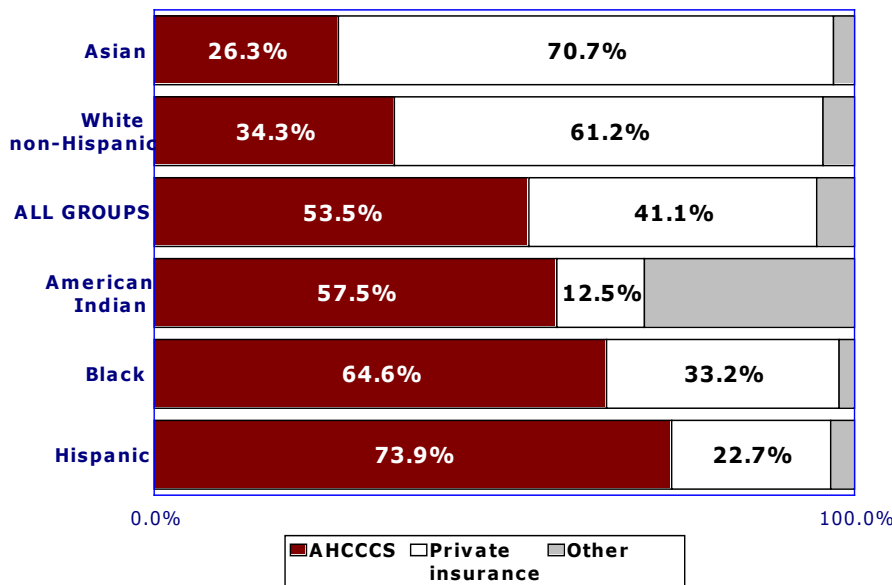
In 2009, the Arizona Health Care Cost Containment System paid for the absolute majority of the deliveries to mothers 24 years or younger (**Figure 1B-17**). In contrast, private insurance was the largest payer for the deliveries of women giving birth who were 25 years old or older in 2009 (based on data 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 the 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 2009, the AHCCCS share more than doubled among mothers 25 years old or older.

Figure 1B-18
Payee for Delivery by Mother's Race/Ethnicity, Arizona, 2009



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

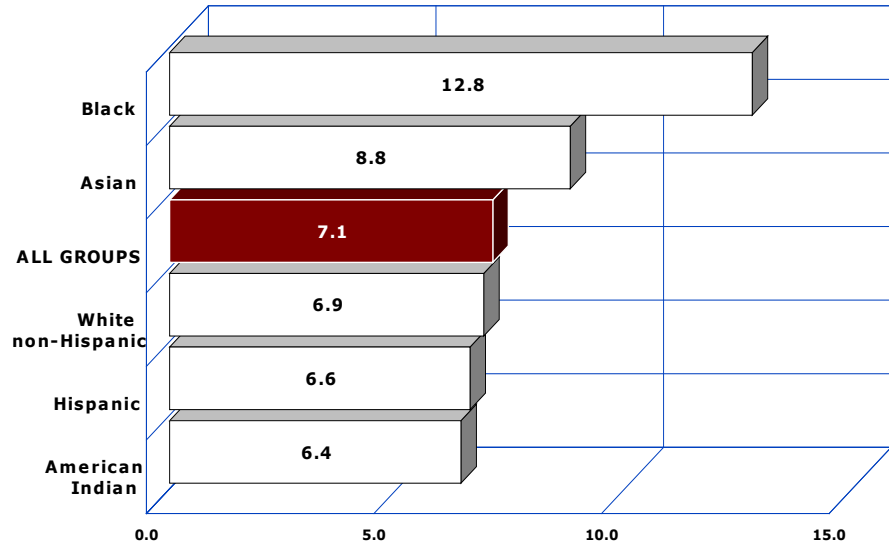
In 2009, private insurance was the largest payer for deliveries of Asian (at 70.7 percent) and White non-Hispanic infants (at 61.2 percent). In contrast, the Arizona Health Care Cost Containment System was the largest payer for deliveries of Hispanic or Latino (73.9 percent), Black or African American (64.6 percent) and American Indian women (57.5 percent).

The Indian Health Service as a payer accounted for a 25.9 percent share of deliveries of American Indian or Alaska Native infants in the State (**Figure 1B-18**, based on data in **Table 1B-28**).

Hispanics or Latino accounted for 57.2 percent of the 49,538 deliveries paid for by the AHCCCS. Twenty-eight percent of all AHCCCS births were to White non-Hispanic women. All other race/ethnic groups combined accounted for 15.2 percent of the AHCCCS deliveries (based on data in **Table 1B-28**).

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

Figure 1B-19
Percent Low Birthweight* by Mother's Race/Ethnicity,
Arizona Residents, 2009

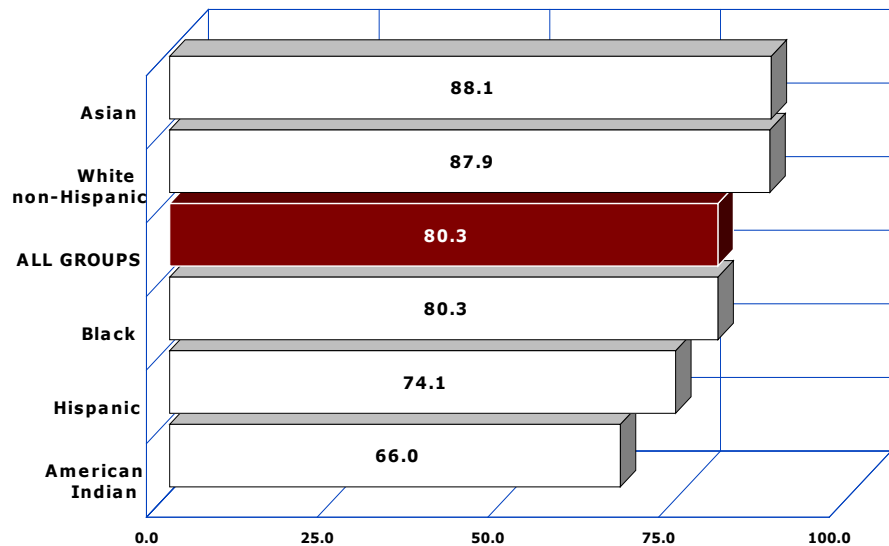


In 2009, 7.1 percent of all Arizona infants were born at a low birthweight (LBW), or at less than 2,500 grams (5 pounds 8 ounces), unchanged from 2006.

In Arizona, LBW rates differed by mother's race/ethnic group. LBW rates were highest for newborns of Black or African American mothers (12.8 percent) and Asian or Pacific Islander mothers (8.8 percent) mothers. Newborns of American Indian and Hispanic or Latino mothers had the lowest LBW rate (6.4 and 6.7 percent respectively; based on data in **Table 1B-28**).

Low birthweight is less than 2,500 grams (less than 5 pounds 8 ounces).
 Note: The latest available U.S. ratio is for 2005.

Figure 1B-20
First Trimester Prenatal Care by Mother's Race/Ethnicity,
Arizona Residents, 2009

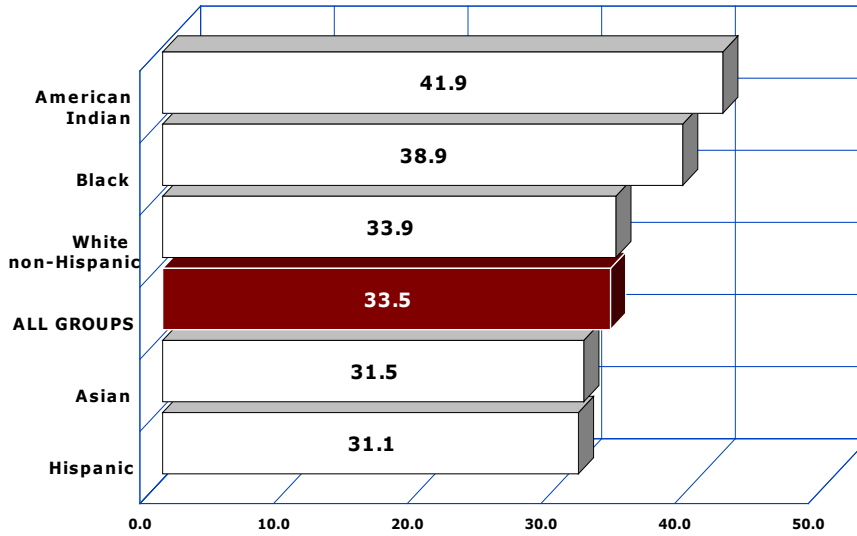


The percent of Arizona mothers giving birth who received early prenatal care (i.e., in the first trimester) increased from 77.6 percent in 2007 to 79.4 percent in 2008, and 80.3 percent in 2009 (**Table 1B-2**).

In Arizona, American Indian, Hispanic or Latino, and Black or African American mothers were least likely to begin prenatal care in the first trimester (**Figure 1B-20**). The highest rates of utilization of early prenatal care were among White non-Hispanic and Asian or Pacific Islander mothers (based on data in **Table 1B-28**).

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

Figure 1B-21
Maternal Medical Risk Factors per 100 Births by Mother's Race/Ethnicity, Arizona, 2009

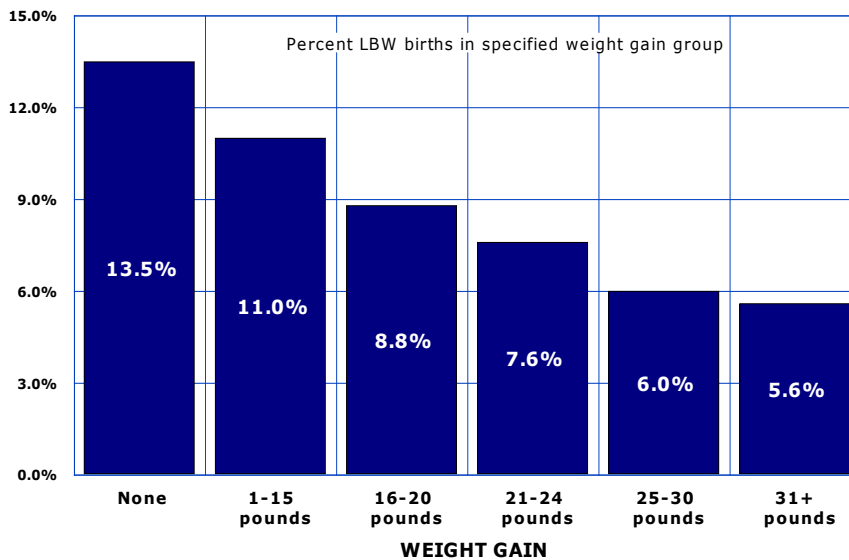


Births with medical risk factors reported per 100 births in specified group.

Maternal medical risk factors (such as anemia, diabetes, hypertension, or kidney disease) can contribute to serious pregnancy complications and infant deaths, if not treated properly. In 2009, American Indian or Alaska Native women giving birth had the highest proportion of medical risk factors (41.9 percent, **Figure 1B-21**), followed by Black or African American, and White non-Hispanic women.

Not surprisingly, IHS mothers had the highest rate of noted medical risk factors at 40.6 percent, followed by PHI and AHCCCS mothers at 33.8 percent, and self-pay mothers at 23.3 percent (**Table 1B-27**).

Figure 1B-22
Risk for Low-Birthweight by Maternal Weight Gain during Pregnancy, Arizona, 2009



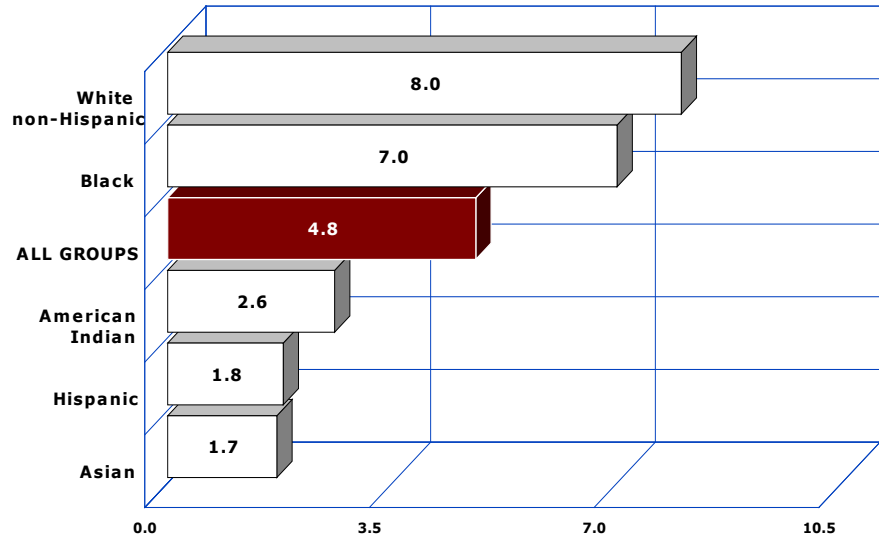
Maternal weight gain during pregnancy is a determinant of both fetal growth and birthweight. Insufficient or excessive weight gain during pregnancy can negatively affect both maternal and pregnancy outcome (see **Figure 2 C-4.3**). Women who are of normal weight (average body mass index or BMI) should gain 21-35 pounds during pregnancy. Women who are underweight should gain more (28-40 pounds), and women who are overweight should gain less (15 to 25 pounds). Unfortunately, it is not possible to determine whether weight gain is within the recommendations for the mother's BMI because the mother's pre-pregnancy weight and height is not reported on the birth certificate.

Maternal weight gain has been shown to be correlated with infant birthweight. In 2009, as in previous years, the percent of infants with low birthweight decreased with increasing maternal weight gain (**Figure 1B-22**).

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

Figure 1B-23
Self-reported Tobacco Use during Pregnancy by Race/Ethnicity, Arizona, 2009

Cigarette smoking during pregnancy has been associated with reduced infant weight at birth, intrauterine growth retardation and preterm births. Smoking during pregnancy was reported by 4.8 percent of women giving birth in 2009 (**Table 1 B-26, 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 when they use. White non-Hispanic and Black mothers continued to be more likely to report smoking than American Indian, Asian, and Hispanic (**Figure 1B-23**).

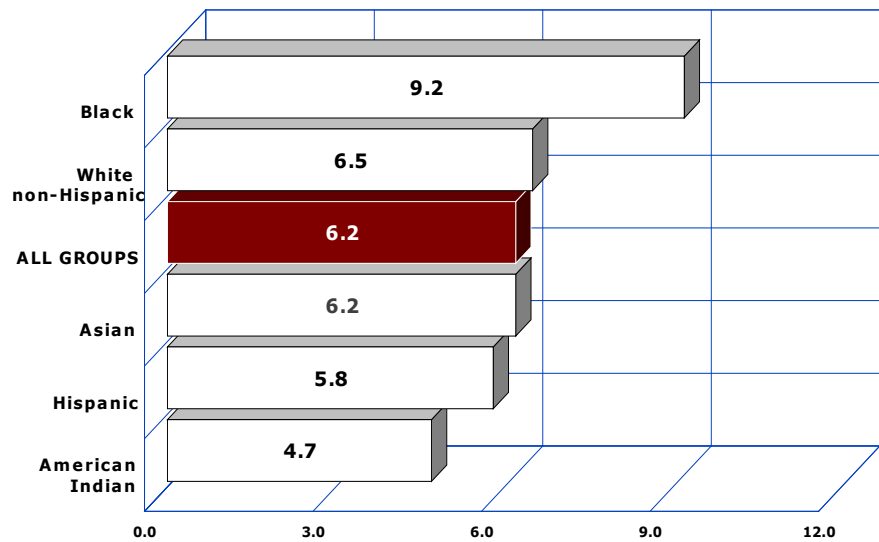


Mothers giving birth who reported tobacco use per 100 births in specified group.

Figure 1B-24
Rates of Admission to Newborn Intensive Care Units per 100 Births, Arizona, 2009

More than 5,700 or 6.2 percent of newborns in 2009 were admitted to newborn intensive care units (NICUs). Surprisingly, only 46.5 percent of the NICU admissions were low birthweight (LBW) babies. Prematurity, i.e., gestational age before 37 weeks captured more NICU admissions than did LBW, with 56.8 admissions being premature (based on data in **Table 1B-33**). The proportion of NICU admissions differed among race/ethnic groups. In 2009, the rate of NICU admissions for Black or African American (9.2 percent) was the highest among race/ethnic groups.

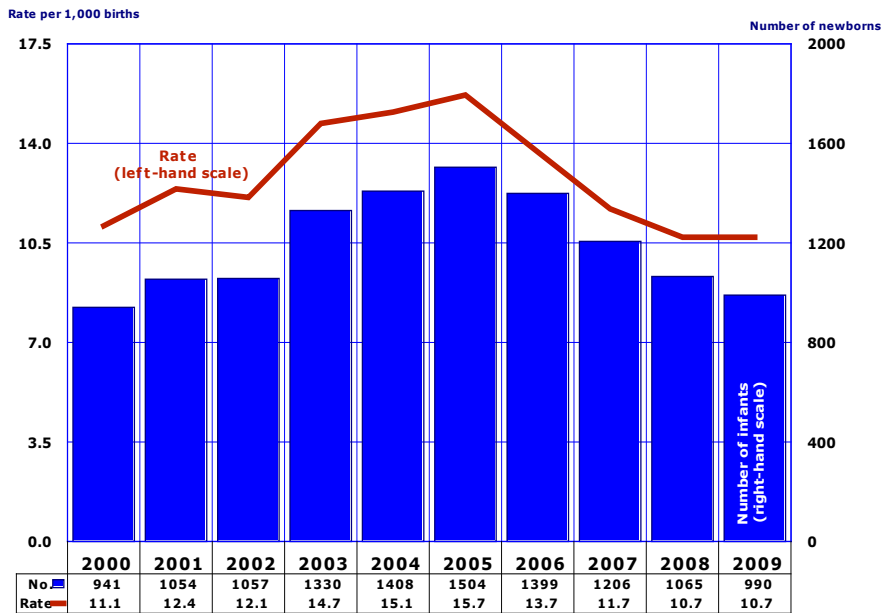
Newborns of IHS mothers were admitted to NICUs at the lowest rate (2.9 percent). Newborns of PHI mothers and AHCCCS mothers had admission rates of 6.6 percent and 6.1 percent respectively (**Table 1B-27**).



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

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

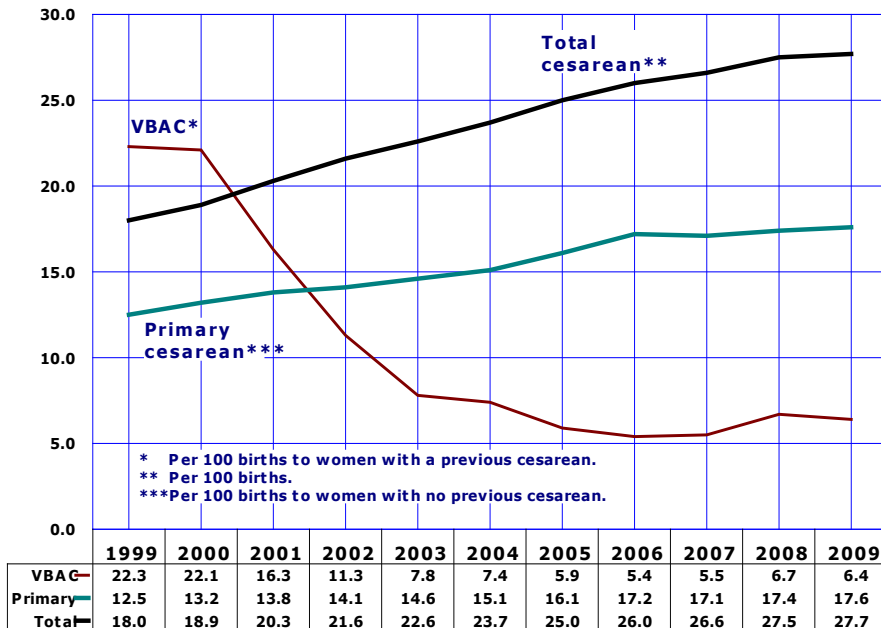
Figure 1B-25
Newborns Who Were Hospitalized after Birth because They Were Affected by Maternal Use of Drugs during Pregnancy, Arizona, 2000-2009



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 agent, or cocaine) transmitted via placenta or breast milk. The number of newborns hospitalized after birth due to maternal drug use during pregnancy decreased from 1,504 in 2005 to 990 in 2009. Nineteen percent or 192 of the 990 babies born to drug dependent mothers were also diagnosed with *drug withdrawal syndrome*.

The diagnostic codes and additional information about hospitalizations related to noxious influences affecting the fetus are available online on the Health Status and Vital Statistics website at <http://www.azdhs.gov/plan/hip/for/substance/index.htm>

Figure 1B-26
Total and Primary Cesarean Deliveries and Vaginal Births after Previous Cesarean (VBAC), Arizona, 1999-2009



The rate of cesarean delivery increased to an all time high of 27.7 percent of all resident births in 2009 (Figure 1 B-26, Table 1 B-2). The rise in the total rate is due to both an increase in the primary cesarean rate and a decrease in the rate of vaginal birth after cesarean delivery (VBAC).

The primary cesarean rate in 2009 (17.6 per 100 live births to women who had no previous cesarean) was 40.8 percent higher than in 1999 (12.5 per 100 live births). The rate of repeat cesarean deliveries almost doubled from 5.5 percent in 1999 to 10.1 percent in 2009.

The rate of vaginal birth after previous cesarean delivery (VBAC) declined 77.3 percent from a high of 23.8 in 1998 to 5.4 in 2006. However, the VBAC rates slightly increased to 5.5 percent in 2007 and to 6.7 percent in 2008. In 2009, the rate the VBAC rate declined again to 6.4 percent of births to women with a previous cesarean.

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

Figure 1B-27
Abnormal Conditions of the Newborn by Gestational Age, Arizona, 2009

Since the first year these data were collected, three of the eight specific abnormal conditions listed on the birth certificate have been reported most frequently: *assisted ventilation less than 30 minutes, assisted ventilation of 30 minutes or longer, and hyaline membrane disease/ respiratory distress syndrome (RDS)*. *Hyaline membrane disease/RDS* is a common cause of morbidity in preterm infants. The rates of abnormal conditions are the highest among very preterm (less than 32 weeks of gestation), moderately preterm (32-36 weeks of gestation) and post-term (42+ weeks) infants (**Figure 1B-27**).

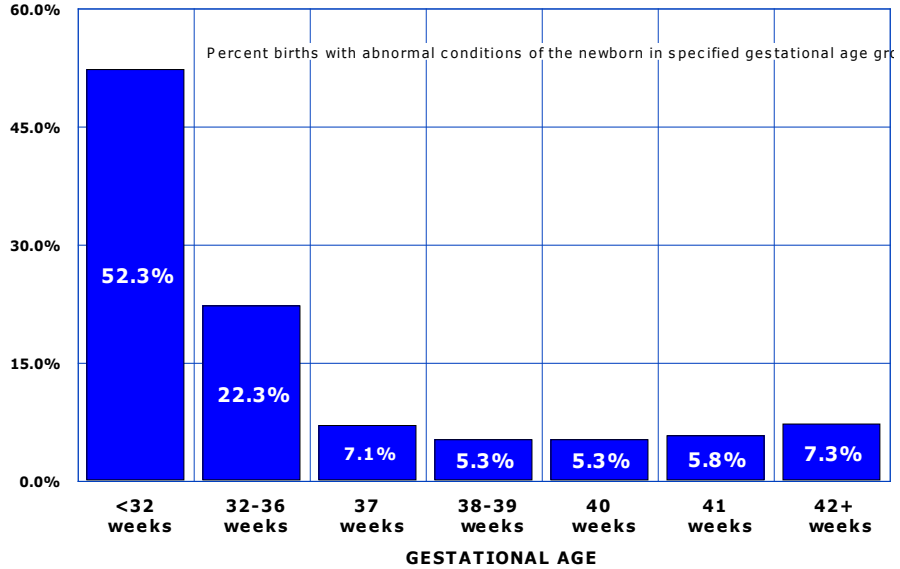


Figure 1B-28
The Incidence of Down's Syndrome by Mother's Age Group, Arizona, 2009

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 2009 as in prior years, the rate of Down's Syndrome, the most frequently recognized cause of mental retardation, was substantially higher for births to mothers aged 35 years and over (**Figure 1B-28, Table 1B-34**). The incidence rate of 137.8 cases of Down's Syndrome per 100,000 births to women 35 years or older was 4.6 times greater than the incidence rate of 30.3 for women aged 25-34 years.

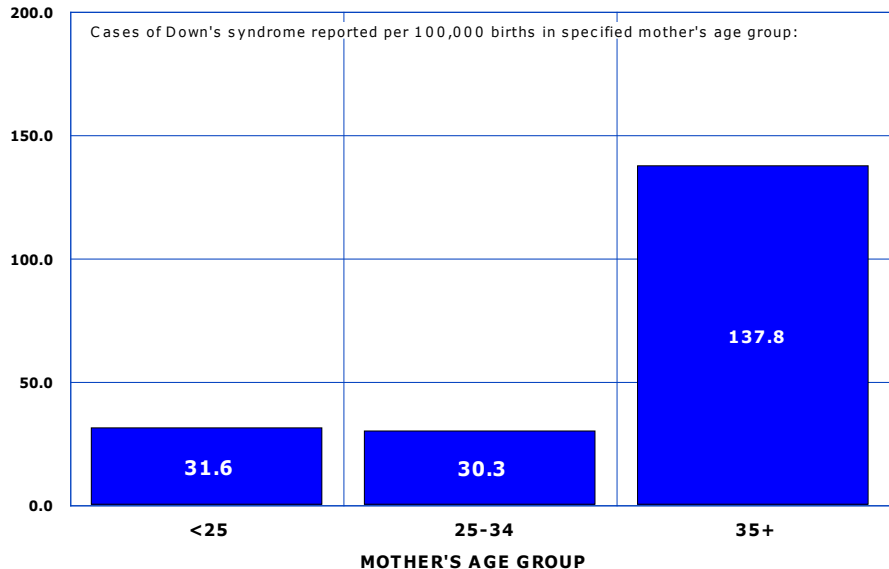


TABLE 1B-1
BIRTH RATE¹, GENERAL FERTILITY RATE², TOTAL FERTILITY RATE³,
GROSS REPRODUCTION RATE AND AGE-SPECIFIC BIRTH RATES⁴ BY YEAR,
ARIZONA AND UNITED STATES, 1999-2009

Year	Area	Birth rate	General fertility rate	Total fertility rate ⁵	Gross reproduction rate	Age specific birth rates:							
						Under 15 years	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45 years and over
1999	AZ	16.0	75.1	2,326	1,135	1.4	72.9	134.7	122.8	87.3	37.9	7.8	0.4
	U.S.	14.5	65.8	2,075	980	0.9	49.6	111.0	117.8	89.6	38.3	7.4	0.4
2000	AZ	16.6	78.4	2,395	1,176	1.2	67.6	139.1	129.2	92.4	40.5	8.4	0.5
	U.S.	14.7	65.7	2,130	1,004	0.9	48.5	112.3	121.4	94.1	40.4	7.9	0.5
2001	AZ	16.1	75.9	2,300	1,150	1.0	63.3	136.2	123.4	88.5	38.7	8.5	0.5
	U.S.	14.1	65.3	2,034	994	0.8	45.9	106.2	113.4	91.9	40.6	8.1	0.5
2002	AZ	16.0	75.5	2,309	1,124	1.1	59.7	136.8	122.9	93.8	38.6	8.3	0.5
	U.S.	13.9	64.8	2,012	983	0.7	42.9	103.5	113.6	91.6	41.4	8.3	0.5
2003	AZ	16.1	76.3	2,330	1,141	1.0	59.2	135.7	126.2	95.6	39.0	8.6	0.6
	U.S.	14.1	66.1	2,043	NA	0.6	41.7	102.6	115.7	95.2	43.8	8.7	0.5
2004	AZ	16.0	75.7	2,309	1,127	0.9	58.2	131.4	125.7	95.7	40.0	9.2	0.6
	U.S.	14.0	66.4	2,049	NA	0.7	41.2	101.8	115.5	95.5	45.4	9.0	0.6
2005	AZ	15.8	74.7	2,278	1,111	0.9	56.5	129.8	125.3	94.5	39.3	8.6	0.6
	U.S.	14.0	66.7	2,054	NA	0.7	40.4	102.2	115.6	95.9	46.3	9.1	0.6
2006	AZ	16.4	80.0	2,392	1,167	0.8	59.6	131.8	132.5	95.6	48.5	9.3	0.3
	U.S.	14.2	68.5	2,101	NA	0.6	41.9	105.9	116.8	97.7	47.3	9.4	0.6
2007	AZ	16.0	78.9	2,364	1,154	0.8	59.5	132.2	124.7	98.6	46.8	9.5	0.7
	U.S.	14.3	68.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2008	AZ	15.2	74.8	2,236	1,093	0.7	54.9	122.2	119.5	94.2	46.2	9.0	0.6
	U.S.	14.2	68.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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.	14.1	69.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

¹The number of births per 1,000 population.

²The number of births per 1,000 women of childbearing age (15-44 years old).

³The sum of age group specific birth rates multiplied by the number of years in the age group (five years in this case). In Table 1B-1 rate of 2,395 in 2000 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 2000, they would have a total of 2,326 children 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.

⁴The 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 1998-2008.

⁵The 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.

Note: The rates for 1999 were revised using the population denominators that are consistent with the 2000 census.

**TABLE 1B-2
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE
AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX,
BIRTH ORDER AND BIRTH COMPLICATIONS, ARIZONA, 1999-2009
(ALL RACE/ETHNIC GROUPS)**

Characteristic	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Number of births	80,505	84,985	85,213	87,379	90,783	93,396	95,798	102,042	102,687	99,215	92,616
Age of mother											
≤19 years	14.9	14.3	13.8	13.1	12.9	12.7	12.5	12.7	12.6	12.3	11.8
≥30 years	30.1	30.4	31.0	31.4	31.6	32.3	32.2	31.6	32.3	33.1	33.8
Marital status											
Unmarried	38.8	39.3	39.4	40.2	41.2	41.9	42.8	43.9	45.0	45.1	45.2
Mother's education											
<9 years	9.0	9.2	9.3	9.1	9.4	9.3	8.7	8.2	7.8	6.9	6.1
Mother's race/ethnicity											
White ¹	48.1	46.9	45.7	44.4	42.8	42.0	41.4	42.2	41.1	42.3	43.0
Hispanic	38.2	39.9	41.2	41.3	43.1	43.7	44.0	44.0	44.5	43.0	41.4
Black	3.4	3.2	3.2	3.2	3.3	3.4	3.6	3.8	4.1	4.3	4.7
American Indian	6.6	6.6	6.3	6.3	6.5	6.6	6.6	6.2	6.2	6.4	6.7
Other	3.7	3.4	3.7	4.8	4.4	4.2	4.4	3.9	4.0	4.1	4.2
Prenatal care begin											
1 st Trimester	74.1	75.0	75.5	75.7	75.6	76.3	77.7	77.7	77.6	79.4	80.3
3 rd Trimester	4.6	4.5	4.3	4.4	4.3	4.4	3.8	3.7	3.7	3.6	3.4
No Care	2.2	2.1	1.9	2.2	2.9	2.8	2.3	2.4	2.2	1.8	1.8
Prenatal visits											
1-4	4.7	4.6	4.5	4.5	4.3	4.6	4.2	4.0	3.9	3.6	3.5
≥5	88.4	88.9	90.6	91.5	90.2	91.7	93.3	93.5	93.9	94.5	94.5
≥9	73.4	73.7	75.9	75.9	74.6	75.5	76.6	76.4	76.7	77.8	78.9
≥13	29.9	31.1	33.0	31.7	29.8	27.6	25.9	27.5	29.4	29.9	30.0
Medical risk/ Complications²	43.2	44.9	45.1	45.6	44.2	44.6	44.7	44.3	45.3	46.5	48.1
Gestational age³											
Preterm (<37 weeks)	9.8	10.3	9.9	10.0	10.5	11.0	10.7	10.6	10.3	10.2	10.0
Birth weight											
<2,500 grams	6.9	7.0	7.0	6.8	7.1	7.2	6.9	7.1	7.1	7.1	7.1
<1,500 grams	1.1	1.2	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2
Child's sex											
Male	51.2	51.1	50.9	51.3	51.0	51.2	51.2	51.2	51.2	51.1	51.1
Female	48.8	48.9	49.1	48.7	49.0	48.8	48.8	48.8	48.8	48.9	48.9
Plurality											
Multiple births	2.6	2.7	2.7	2.7	2.8	2.9	2.7	2.8	2.7	2.9	2.8
Caesarean delivery	18.0	18.9	20.3	21.6	22.6	23.7	25.0	26.0	26.6	27.5	27.7
Place of delivery											
Hospital ⁴	99.4	99.4	98.9	98.9	98.8	98.8	98.9	98.9	99.0	99.0	98.8
Attendant at birth											
Midwife ⁵	8.7	8.4	7.6	7.0	6.5	6.7	6.1	5.6	5.7	6.1	6.5
Previous live births											
1 or more	61.4	61.4	62.3	62.4	62.2	62.9	63.0	62.5	63.1	63.3	63.1

¹Non-Hispanic.

²Reported medical risks for this pregnancy and/or complications of labor and delivery.

³Physician's estimate.

⁴Hospital, clinic, medical center or maternity home.

⁵Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-3
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL
CARE AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX,
BIRTH ORDER AND BIRTH COMPLICATIONS, ARIZONA, 1999-2009
(ALL RACE/ETHNIC GROUPS)

Characteristic	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Number of births	5,536	5,975	5,943	5,926	6,427	6,704	6,640	7,266	7,285	7,026	6,573
Age of mother											
≤19 years	16.9	17.0	16.1	14.9	14.9	14.3	14.2	14.5	14.2	13.2	13.1
≥30 years	31.7	32.6	33.1	34.3	34.7	34.3	33.5	34.3	34.7	35.8	37.4
Marital status											
Unmarried	44.1	45.6	44.5	45.3	45.7	46.5	48.3	48.3	49.2	48.6	48.5
Mother's education											
<9 years	8.7	9.2	9.7	8.8	9.5	8.7	8.3	7.8	7.7	6.3	5.7
Mother's race/ethnicity											
White ¹	45.8	46.7	44.0	43.9	41.6	42.3	41.1	39.8	40.9	41.0	41.5
Hispanic	37.6	37.9	39.5	39.2	41.8	41.2	40.8	42.3	41.5	40.8	38.7
Black	5.7	5.7	6.3	5.5	5.5	5.6	6.6	6.7	7.3	7.2	8.5
American Indian	7.1	6.3	6.6	6.1	6.3	6.6	6.9	6.5	5.8	6.1	6.0
Other	3.7	3.4	3.6	5.3	4.8	4.4	4.7	4.7	4.5	5.0	5.2
Prenatal care began											
1st Trimester	69.6	71.3	73.6	74.2	73.8	75.4	77.4	77.2	77.4	79.5	80.6
3rd Trimester	4.4	4.0	3.3	3.5	3.5	2.9	2.7	2.8	3.1	2.9	2.6
No Care	4.2	4.5	4.1	4.6	5.1	4.5	4.7	4.9	4.5	3.8	3.6
Prenatal visits											
1-4	8.5	8.6	8.4	9.0	8.0	9.3	9.4	8.5	8.2	7.7	7.6
≥5	78.3	78.2	82.0	82.9	82.9	84.7	85.6	86.3	87.1	88.2	88.3
≥9	58.2	57.6	60.4	57.7	58.7	59.8	60.3	60.1	61.2	63.0	64.1
≥13	24.7	25.7	27.3	25.0	26.5	23.9	22.1	21.9	25.1	25.6	25.7
Medical risks/											
Complications²	69.2	69.7	68.0	68.9	64.0	63.8	67.2	65.1	65.9	68.7	70.5
Gestational age³											
Preterm (<37 weeks)	70.3	71.3	70.7	70.9	70.9	73.3	73.7	72.7	72.3	71.7	71.2
Birth weight											
<1,500 grams	16.0	16.6	15.5	16.6	15.9	16.4	16.9	16.9	16.8	16.5	16.7
<1,000 grams	7.9	7.3	7.4	8.8	7.9	7.9	8.7	7.7	8.1	7.7	8.0
Child's sex											
Male	50.0	49.7	47.4	48.3	48.6	48.0	47.1	47.5	47.9	48.1	47.8
Female	50.0	50.3	52.5	51.7	51.4	52.0	52.9	52.5	52.1	51.9	52.2
Plurality											
Multiple births	21.3	22.1	22.5	23.2	23.4	23.7	22.2	22.5	23.1	23.3	22.1
Caesarean delivery	35.2	38.0	37.6	39.7	41.2	40.8	42.5	43.2	44.2	46.7	46.4
Place of delivery											
Hospital ⁴	99.7	99.7	99.6	99.7	99.6	99.6	99.6	99.7	99.6	99.7	99.8
Attendant at birth											
Midwife ⁵	3.9	3.6	3.7	3.1	2.8	3.1	2.5	1.9	2.5	2.6	2.3
Previous live births											
1 or more	58.3	58.6	58.1	58.0	58.7	58.1	58.3	59.6	60.5	60.5	59.7

¹Non-Hispanic.

²Reported medical risks for this pregnancy and/or complications of labor and delivery.

³Physician's estimate.

⁴Hospital, clinic, medical center or maternity home.

⁵Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-4
ALL LIVE BIRTHS AND LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED
MATERNAL, PRENATAL CARE AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY,
CHILD'S SEX, BIRTH ORDER AND BIRTH COMPLICATIONS, ARIZONA, 1999-2009
(URBAN REGIONS)*

Characteristic	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	
Number of births	68,611	72,596	73,319	74,851	77,905	79,951	82,141	87,910	88,266	85,263	79,046	
Age of mother												
≤19 years	14.4	13.9	13.5	12.7	12.4	12.2	12.0	12.3	12.1	11.7	11.2	
≥30 years	30.6	30.9	31.5	32.0	32.2	33.1	32.9	32.5	33.3	34.1	35.1	
Marital status												
Unmarried	38.1	38.5	38.8	39.5	40.4	41.1	41.9	43.0	44.3	44.1	44.2	
Mother's education												
<9 years	9.6	9.9	10.0	9.7	10.1	9.9	9.3	8.8	8.3	7.4	6.5	
Mother's race/ethnicity												
White ¹	48.1	46.8	45.3	44.1	42.3	41.4	40.8	41.5	40.2	41.5	42.1	
Hispanic	40.9	42.6	43.9	44.1	46.0	46.7	46.9	46.7	47.5	45.8	44.4	
Black	3.7	3.6	3.5	3.5	3.7	3.8	4.0	4.2	4.5	4.8	5.3	
American Indian	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.5	3.5	3.5	3.6	
Other	3.9	3.6	3.9	5.0	4.6	4.6	4.8	4.1	4.3	4.3	4.6	
Prenatal care began												
1st Trimester	74.6	75.4	76.1	76.5	76.5	77.1	78.4	78.4	78.2	80.4	81.5	
3rd Trimester	4.4	4.4	4.2	4.2	4.2	4.3	3.6	3.5	3.5	3.3	3.0	
No care	2.2	2.2	1.9	2.2	3.1	2.9	2.4	2.4	2.2	1.7	1.9	
Prenatal visits												
1-4	4.3	4.2	4.2	4.0	3.9	4.3	3.9	3.7	3.5	3.1	3.0	
≥5	88.4	89.0	90.9	92.0	90.5	92.0	93.7	93.7	94.2	95.1	94.9	
≥9	74.3	74.9	77.3	77.6	76.0	76.6	77.4	77.2	77.5	79.1	80.1	
≥13	30.7	32.2	34.4	32.8	30.5	27.7	25.5	27.5	29.6	30.1	30.6	
Medical risks/complications²	42.2	44.6	43.9	44.1	42.2	42.6	42.4	42.8	44.4	46.3	48.6	
Gestational age³												
Preterm (<37 weeks)	9.9	10.4	10.0	10.1	10.6	11.0	10.8	10.7	10.3	10.2	10.1	
Birth weight												
<2,500 grams	6.8	7.0	6.9	6.8	7.0	7.1	6.9	7.0	7.0	7.0	7.0	
<1,500 grams	1.1	1.2	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	
Child's sex												
Male	51.3	51.1	50.8	51.4	51.1	51.1	51.1	51.2	51.3	51.0	51.3	
Female	48.7	48.9	49.2	48.6	48.9	48.9	48.9	48.8	48.7	49.0	48.7	
Plurality												
Multiple births	2.6	2.8	2.8	2.8	2.9	3.0	2.8	2.8	2.8	3.0	2.8	
Caesarean delivery	18.0	19.1	20.5	21.8	22.8	23.8	25.4	26.0	26.8	27.8	28.1	
Place of delivery												
Hospital ⁴	99.5	99.6	99.0	99.1	99.1	99.1	99.2	99.2	99.3	99.3	99.1	
Attendant at birth												
Midwife ⁵	7.6	7.4	6.7	6.1	5.5	5.7	5.0	4.5	4.6	5.1	5.5	
Previous live births	1 or more	61.0	60.9	61.8	65.0	61.9	62.7	62.9	62.3	62.9	63.1	62.9
Number of LBW births	4,653	5,100	5,081	5,079	5,479	5,666	5,630	6,175	6,205	5,974	5,548	
Age of mother												
≤19 years	16.7	16.7	16.1	16.2	14.9	13.6	13.7	14.3	13.7	12.6	12.7	
≥30 years	32.1	33.0	33.7	35.0	34.9	35.5	33.9	35.3	35.9	37.0	38.5	
Marital status												
Unmarried	43.7	44.7	44.6	44.8	45.0	45.5	47.2	47.2	48.6	47.4	48.1	
Mother's education												
<9 years	9.3	10.0	10.5	9.3	10.1	9.2	8.9	8.2	8.2	6.7	5.8	
Mother's race/ethnicity												
White ¹	45.7	46.8	43.2	43.3	40.9	42.0	40.5	39.1	39.6	39.8	40.5	
Hispanic	40.5	40.3	42.3	42.0	44.6	43.6	43.7	44.6	44.2	43.6	40.9	
Black	6.3	6.4	6.9	6.2	6.1	6.3	7.4	7.6	8.3	8.0	9.8	
American Indian	3.5	2.9	3.5	3.0	3.2	3.3	3.5	3.8	3.1	3.2	3.0	
Other	4.0	3.5	4.1	5.6	5.2	4.9	4.9	4.9	4.8	5.5	5.7	
Prenatal care began												
1st Trimester	69.9	71.7	73.9	71.0	74.7	75.9	78.0	78.1	77.6	80.2	81.3	
3rd Trimester	4.1	3.6	3.3	3.8	3.4	2.9	2.4	2.6	2.9	2.6	2.2	
No care	4.4	4.6	4.3	4.9	5.4	4.7	4.7	4.9	4.5	3.9	3.8	
Prenatal visits												
1-4	8.3	8.1	8.1	8.8	7.7	9.1	9.3	8.4	8.1	7.3	7.2	
≥5	78.1	78.7	81.7	83.0	83.1	84.8	85.8	86.5	87.3	88.6	88.7	
≥9	58.7	58.8	61.4	58.4	59.3	60.5	60.9	60.6	61.7	63.7	65.0	
≥13	25.0	27.2	28.5	25.3	27.0	24.6	22.1	22.4	25.6	25.7	26.3	
Medical risks/complications²	68.0	69.6	67.2	68.1	62.8	62.7	65.7	64.4	66.0	69.6	71.8	
Gestational age³												
Preterm (<37 weeks)	71.1	72.3	71.2	71.8	71.8	74.1	75.0	73.5	72.9	72.7	72.2	
Birth weight												
<1,500 grams	16.3	16.4	15.9	17.2	16.1	16.6	17.2	17.1	17.1	16.8	17.2	
<1,000 grams	8.1	7.3	7.7	9.1	8.0	8.1	9.0	8.0	8.3	8.0	8.3	
Child's sex												
Male	50.3	49.2	47.7	48.6	48.3	47.7	46.8	47.1	48.2	47.9	48.0	
Female	49.7	50.8	52.3	51.4	51.7	52.2	53.2	52.9	51.8	52.1	52.0	
Plurality												
Multiple births	21.6	23.0	23.7	24.0	24.4	25.3	22.9	23.2	24.4	23.9	22.8	
Caesarean delivery	35.0	38.5	37.9	40.8	41.7	41.1	43.1	43.4	45.1	47.4	47.2	
Place of delivery												
Hospital ⁴	99.7	99.8	99.7	99.8	99.7	99.7	99.7	99.8	99.7	99.8	99.8	
Attendant at birth												
Midwife ⁵	3.4	3.4	3.0	2.6	2.2	2.4	1.8	1.4	1.9	2.2	1.9	
Previous live births	1 or more	57.9	58.2	57.9	57.3	58.6	58.4	58.1	58.9	60.1	59.7	

* Urban = Maricopa, Pima, Pinal and Yuma counties. The remaining counties comprise Arizona's rural areas.

See Technical Notes for more information.

¹Non-Hispanic.

²Reported medical risks for this pregnancy and/or complications of labor and delivery.

³Physician's estimate.

⁴Hospital, clinic, medical center or maternity home.

⁵Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-5
ALL LIVE BIRTHS AND LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED
MATERNAL, PRENATAL CARE AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY,
CHILD'S SEX, BIRTH ORDER AND BIRTH COMPLICATIONS, ARIZONA, 1999-2009
(RURAL REGIONS)*

Characteristic	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Number of births	11,877	12,333	11,851	12,498	12,848	13,409	13,603	14,083	14,413	13,952	13,570
Age of mother											
≤19 years	17.4	16.9	15.9	15.7	15.7	15.5	15.5	14.9	15.8	15.4	15.4
≥30 years	27.3	27.6	27.7	27.4	27.9	27.3	27.9	26.6	26.2	26.8	26.7
Marital status											
Unmarried	42.9	44.2	43.3	44.5	46.0	46.8	48.4	49.2	49.4	51.1	50.7
Mother's education											
<9 years	5.3	5.2	5.1	5.2	5.2	5.6	5.4	4.9	4.5	4.0	4.0
Mother's race/ethnicity											
White ¹	48.0	47.5	47.9	46.5	45.8	45.7	45.0	46.5	46.6	46.7	48.1
Hispanic	22.7	23.9	24.3	24.4	25.5	26.1	26.3	26.7	26.6	25.7	24.3
Black	1.1	1.0	1.2	1.1	1.2	1.1	1.0	1.1	1.1	1.3	1.2
American Indian	25.4	25.7	24.6	24.3	25.0	25.2	25.4	23.5	23.2	24.4	24.4
Other	2.9	1.9	2.0	3.7	2.6	1.9	2.2	2.2	2.6	2.0	2.1
Prenatal care began											
1st Trimester	70.8	72.2	71.9	70.8	70.0	71.4	73.9	73.5	73.7	72.7	73.3
3rd Trimester	5.7	5.4	5.0	5.1	4.9	4.8	4.7	4.9	4.8	5.2	5.5
No care	1.9	1.7	1.6	1.7	1.7	2.1	2.1	1.9	1.9	1.9	1.5
Prenatal visits											
1-4	7.0	7.3	6.8	7.2	6.8	6.5	6.1	6.2	6.0	6.8	6.1
≥5	88.7	88.0	89.2	88.5	88.0	90.1	91.5	91.7	91.9	91.1	92.0
≥9	67.0	66.5	67.1	66.0	66.6	68.9	72.4	71.1	71.4	69.7	71.5
≥13	25.6	24.4	24.5	25.2	25.5	26.7	28.0	27.6	27.9	28.8	26.5
Medical risks/complications²	48.7	47.0	52.1	54.7	56.3	56.6	58.3	53.5	50.7	48.2	45.1
Gestational age³											
Preterm (<37 weeks)	9.2	9.3	9.3	9.4	10.0	10.9	10.0	10.0	10.0	9.7	9.7
Birth weight											
<2,500 grams	7.4	7.0	7.2	6.8	7.3	7.7	7.4	7.7	7.5	7.5	7.6
<1,500 grams	1.1	1.2	1.0	0.9	0.8	1.2	1.1	1.2	1.1	1.1	1.1
Child's sex											
Male	50.4	51.6	51.1	51.1	50.6	51.5	51.7	51.0	50.0	51.3	50.3
Female	49.6	48.4	48.9	48.9	49.4	48.5	48.3	49.0	50.0	48.7	49.7
Plurality											
Multiple births	2.5	2.0	1.8	2.4	2.3	2.0	2.3	2.4	2.2	2.4	2.5
Caesarean delivery	18.1	17.9	19.3	20.6	21.4	22.9	23.1	25.8	25.3	26.0	25.4
Place of delivery											
Hospital ⁴	98.7	98.6	97.9	97.5	97.2	96.8	96.9	97.2	97.3	97.1	96.9
Attendant at birth											
Midwife ⁵	15.0	14.7	13.5	12.2	12.4	12.6	12.9	12.4	12.5	12.7	12.6
Previous live births	1 or more	64.0	64.0	65.6	65.0	64.3	64.4	64.1	64.3	64.5	64.3
Number of LBW births	883	863	857	844	940	1,030	1,003	1,080	1,080	1,052	1,025
Age of mother											
≤19 years	17.7	18.7	16.6	16.2	17.8	17.8	17.5	16.0	17.2	16.4	15.1
≥30 years	29.5	30.2	29.9	29.7	33.9	27.6	31.5	28.8	28.1	29.4	31.1
Marital status											
Unmarried	46.2	51.5	43.5	48.3	50.3	52.1	54.0	54.9	53.1	55.2	50.6
Mother's education											
<9 years	5.5	4.2	5.5	5.8	6.4	6.2	5.4	5.4	4.8	3.9	4.9
Mother's race/ethnicity											
White ¹	47.0	46.6	48.8	47.5	45.6	43.8	44.8	43.5	48.0	47.6	46.8
Hispanic	22.3	22.7	22.6	22.6	26.0	28.2	24.7	29.5	25.8	24.9	26.9
Black	2.4	1.8	2.8	1.7	2.0	1.7	1.8	1.8	1.8	2.6	1.3
American Indian	25.9	26.5	24.5	24.3	23.8	24.5	26.2	21.9	21.4	22.7	22.2
Other	2.5	2.3	1.3	3.9	2.6	1.9	2.5	3.3	3.1	2.2	2.8
Prenatal care began											
1st Trimester	68.5	68.1	71.6	71.0	68.7	72.5	74.1	72.0	76.0	75.7	76.7
3rd Trimester	6.0	5.9	3.3	3.8	3.9	2.4	4.7	4.3	4.2	4.1	4.4
No care	3.2	4.0	2.9	2.8	3.8	3.5	4.4	5.2	4.5	3.5	2.6
Prenatal visits											
1-4	9.6	12.1	9.7	10.0	10.0	10.6	9.9	9.4	9.4	10.2	9.8
≥5	80.0	74.7	83.3	82.8	81.6	83.7	85.0	84.9	85.9	85.8	86.4
≥9	55.6	50.7	54.6	53.8	55.3	55.9	57.3	56.8	58.1	59.0	59.2
≥13	22.7	16.8	20.4	23.3	23.6	20.1	22.1	19.3	22.0	24.9	22.6
Medical risks/complications²	75.7	69.7	73.0	73.6	71.1	69.3	75.3	69.2	65.1	63.9	63.6
Gestational age³											
Preterm (<37 weeks)	65.6	65.5	67.6	65.6	65.0	69.5	66.1	68.0	68.9	65.9	65.7
Birth weight											
<1,500 grams	14.4	17.6	13.4	12.8	14.7	15.2	14.8	15.7	15.3	14.5	14.4
<1,000 grams	6.6	7.8	5.4	6.8	6.5	6.7	7.1	6.2	7.1	5.7	5.9
Child's sex											
Male	48.6	53.5	46.3	46.7	49.8	49.2	48.5	49.8	46.1	49.1	47.0
Female	51.2	46.5	53.7	53.3	50.1	50.8	51.5	50.2	53.9	50.8	53.0
Plurality											
Multiple births	19.7	16.5	15.6	18.2	17.8	15.0	17.8	18.2	15.9	19.8	18.4
Caesarean delivery	36.5	35.2	35.6	33.3	38.2	39.0	38.6	41.6	39.2	42.7	42.0
Place of delivery											
Hospital ⁴	99.7	99.2	99.2	98.9	99.1	99.1	98.8	99.4	99.3	99.1	99.4
Attendant at birth											
Midwife ⁵	6.4	5.0	7.6	6.4	6.2	6.5	6.1	5.3	5.6	5.1	4.6
Previous live births	1 or more	60.4	61.0	59.3	62.1	59.3	56.6	59.5	63.1	62.2	59.8

* 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.

¹Non-Hispanic.

²Reported medical risks for this pregnancy and/or complications of labor and delivery.

³Physician's estimate.

⁴Hospital, clinic, medical center or maternity home.

⁵Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-6
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER
AND BIRTH COMPLICATIONS, ARIZONA, 1999-2009
(WHITE NON-HISPANIC MOTHERS)

Characteristic	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Number of births	38,711	39,850	38,934	38,819	38,842	39,271	39,657	43,013	42,216	41,925	39,781
Age of mother											
≤19 Years	10.0	9.4	8.7	7.9	7.6	7.1	6.9	7.5	7.3	7.1	6.8
≥30 Years	37.4	38.1	39.1	39.3	39.9	40.3	39.3	37.9	38.5	38.7	39.3
Marital status											
Unmarried	24.8	24.8	24.5	25.0	25.1	24.8	26.1	27.7	28.4	29.5	29.7
Mother's education											
<9 years	1.5	1.5	1.5	1.3	1.5	1.4	1.3	1.2	1.2	1.1	1.2
Prenatal care began											
1st Trimester	84.7	86.0	86.2	86.5	86.8	87.3	87.7	86.9	86.5	87.3	87.9
3rd Trimester	2.2	2.0	1.9	1.9	1.9	1.9	1.8	2.0	2.1	1.9	1.9
No Care	0.8	0.7	0.6	0.7	0.6	0.7	0.8	0.9	0.9	0.7	0.7
Prenatal visits											
1-4	2.1	2.1	2.0	2.2	2.3	2.1	2.0	2.0	2.1	2.0	1.8
≥5	93.3	93.6	94.9	95.4	94.0	96.1	97.1	96.9	97.0	97.2	97.3
≥9	82.5	82.6	84.7	84.1	82.8	85.2	85.7	84.9	84.6	85.0	86.4
≥13	34.2	34.2	35.2	33.4	32.1	30.6	29.9	32.4	34.6	34.8	35.0
Medical risks/ Complications¹	44.2	45.7	46.7	47.9	49.2	58.7	48.1	45.4	47.5	47.7	48.1
Gestational Age²											
Preterm (<37 weeks)	9.8	10.5	10.1	10.5	11.0	11.4	10.9	10.5	10.4	10.1	9.9
Birth weight											
<2,500 grams	6.5	7.0	6.7	6.7	6.9	7.2	6.9	6.7	7.1	6.9	6.9
<1,500 grams	1.0	1.1	1.0	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Child's sex											
Male	51.3	51.5	51.2	51.7	51.2	51.0	51.5	51.3	50.8	51.1	51.2
Female	48.7	48.5	48.8	48.3	48.8	49.0	48.5	48.7	49.2	48.9	48.8
Plurality											
Multiple births	3.0	3.4	3.3	3.5	3.5	3.8	3.4	3.2	3.5	3.6	3.4
Caesarean delivery	19.6	20.6	22.2	23.8	24.2	25.9	27.1	27.9	28.6	29.5	29.5
Place of delivery											
Hospital ³	99.0	99.0	98.0	98.2	97.9	97.6	97.8	97.9	97.9	97.9	97.6
Attendant at birth											
Midwife ⁴	5.0	5.1	5.0	4.0	3.9	3.6	3.1	3.8	3.6	4.0	4.5
Previous live births											
1 or more	58.8	58.6	59.7	59.3	58.9	59.8	59.2	58.9	59.7	59.5	59.4

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center or maternity home.

⁴Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-7
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER
AND BIRTH COMPLICATIONS, ARIZONA, 1999-2009
(WHITE NON-HISPANIC MOTHERS)

Characteristic	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Number of LBW births	2,516	2,772	2,615	2,600	2,672	2,836	2,729	2,891	2,978	2,878	2,727
Age of mother											
≤19 years	10.7	11.4	9.7	9.3	9.5	9.3	8.6	8.6	8.8	7.6	8.7
≥30 years	39.6	40.1	42.9	42.7	44.5	41.9	40.5	41.8	40.9	41.8	43.2
Marital status											
Unmarried	29.2	30.8	27.8	31.7	30.3	30.3	32.7	33.0	34.6	34.1	33.5
Mother's education											
<9 years	2.2	1.7	2.3	2.1	2.0	1.6	1.8	1.8	1.6	1.4	1.1
Prenatal care began											
1st Trimester	79.3	81.4	83.6	83.5	83.4	84.8	86.9	85.6	86.2	86.5	86.8
3rd Trimester	2.5	2.2	1.7	2.0	2.4	1.7	1.6	1.7	1.8	1.7	1.9
No Care	2.0	2.0	1.6	2.1	2.1	1.9	2.1	3.0	2.4	2.1	1.9
Prenatal visits											
1-4	5.0	4.8	4.5	6.2	5.2	5.7	5.8	5.2	5.5	4.7	5.3
≥5	82.6	83.3	87.9	87.5	87.9	90.4	92.0	91.6	92.0	92.9	92.4
≥9	65.0	65.6	68.8	64.7	66.8	69.6	69.7	68.6	70.1	69.8	70.6
≥13	28.5	30.1	31.8	28.5	31.8	29.4	28.1	27.1	31.0	29.9	30.5
Medical risks/ Complications¹											
70.5	70.9	70.6	72.6	69.6	66.2	70.9	66.5	68.6	71.5	71.5	
Gestational age²											
Preterm (<37 weeks)	71.5	73.2	73.2	74.4	72.4	76.8	74.3	74.6	74.0	72.9	71.7
Birth weight											
<1,500 grams	15.9	15.5	15.4	17.3	16.5	14.9	15.8	16.1	15.0	15.7	15.5
<1,000 grams	7.6	6.7	6.9	8.5	7.7	7.1	8.4	7.1	6.2	6.8	6.9
Child's sex											
Male	48.9	49.3	47.5	48.0	49.5	47.2	46.2	47.4	46.9	47.0	46.3
Female	51.1	50.7	52.5	52.0	50.5	52.8	53.8	52.6	53.1	53.0	53.7
Plurality											
Multiple births	25.0	28.7	28.1	29.1	29.6	30.3	28.8	28.7	29.6	30.1	26.7
Caesarean delivery	39.5	43.0	44.0	45.8	48.1	46.8	47.9	48.4	49.6	53.2	50.5
Place of delivery											
Hospital ³	99.4	99.8	99.5	99.8	99.5	99.5	99.6	99.5	99.5	99.4	99.7
Attendant at birth											
Midwife ⁴	1.9	2.2	2.2	1.7	1.2	1.4	0.9	0.9	1.2	1.3	1.1
Previous live births											
1 or more	56.0	56.0	55.8	55.2	54.7	54.6	54.3	56.9	57.5	58.3	56.7

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center or maternity home.

⁴Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-8
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER
AND BIRTH COMPLICATIONS, ARIZONA, 1999-2009
(HISPANIC OR LATINO MOTHERS)

Characteristic	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Number of births	30,784	33,893	35,103	36,089	39,101	40,822	42,156	44,862	45,731	42,639	38,362
Age of mother											
≤19 years	20.0	19.3	18.9	18.2	17.4	17.5	17.1	17.2	17.0	16.8	16.5
≥30 years	21.4	21.4	22.4	22.9	23.6	24.7	25.6	25.5	26.5	27.5	28.4
Marital status											
Unmarried	50.3	51.4	51.0	52.2	52.7	53.9	54.3	55.4	56.7	56.5	56.9
Mother's education											
<9 years	20.0	20.0	19.7	19.0	19.2	18.8	17.5	16.4	15.4	13.9	12.3
Prenatal care began											
1st Trimester	62.7	63.5	65.3	65.6	65.8	67.0	69.5	70.1	70.5	73.4	74.1
3rd Trimester	7.1	7.2	6.8	6.6	6.2	6.3	5.2	5.1	4.9	4.5	4.4
No Care	3.9	3.6	3.2	3.8	4.8	4.5	3.6	3.6	3.2	2.5	2.9
Prenatal visits											
1-4	7.1	6.9	6.7	6.2	5.7	6.4	5.5	5.2	4.9	4.4	4.5
≥5	83.4	84.3	86.8	88.2	87.4	88.4	90.8	91.0	91.8	93.0	92.4
≥9	64.9	65.3	68.4	69.4	68.5	67.9	70.0	70.3	71.2	73.3	73.4
≥13	27.0	29.3	32.7	32.6	28.9	25.8	22.9	23.9	25.7	26.7	26.3
Medical risks/ Complications¹	39.7	42.1	41.6	41.0	38.1	39.3	40.5	41.5	41.4	43.7	46.4
Gestational age²											
Preterm (<37 weeks)	9.5	9.8	9.4	9.4	9.8	10.3	10.1	10.1	9.8	9.9	9.7
Birth weight											
<2,500 grams	6.8	6.7	6.7	6.4	6.9	6.8	6.4	6.9	6.6	6.7	6.6
<1,500 grams	1.0	1.1	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.1	1.1
Child's sex											
Male	51.1	50.9	50.8	51.2	51.0	51.2	51.1	51.2	51.4	51.0	51.1
Female	48.9	49.1	49.2	48.8	49.0	48.8	48.9	48.8	48.6	49.0	48.9
Plurality											
Multiple births	2.3	2.0	2.1	2.1	2.3	2.2	2.3	2.4	2.2	2.2	2.2
Caesarean delivery	16.2	17.4	18.6	19.5	21.1	21.9	23.5	24.0	24.6	25.7	25.8
Place of delivery											
Hospital ³	99.8	99.8	99.8	99.8	99.8	99.7	99.7	99.8	99.7	99.8	99.7
Attendant at birth											
Midwife ⁴	9.2	8.5	7.3	7.0	5.6	5.9	5.2	4.6	4.9	5.6	6.0
Previous live births											
1 or more	64.0	63.6	64.9	65.5	65.5	65.9	66.7	66.0	66.4	67.4	67.2

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center or matei

⁴Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-9
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER
AND BIRTH COMPLICATIONS, ARIZONA, 1999-2009
(HISPANIC OR LATINO MOTHERS)**

Characteristic	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Number of LBW births	2,090	2,270	2,345	2,325	2,687	2,759	2,710	3,074	3,021	2,866	2,546
Age of mother											
≤19 years	20.0	23.4	23.2	21.4	21.1	18.9	19.6	20.5	19.4	18.7	18.1
≥30 years	21.4	23.7	22.4	23.8	24.4	26.7	26.6	27.0	28.5	29.0	31.7
Marital status											
Unmarried	55.8	58.1	56.6	56.3	57.0	58.0	59.2	58.6	60.2	58.6	58.7
Mother's education											
<9 years	18.9	20.4	20.8	18.8	19.1	18.2	16.8	15.0	15.7	12.2	12.2
Prenatal care began											
1st Trimester	59.9	60.5	64.1	64.9	65.8	67.2	69.5	71.1	69.7	74.8	75.9
3rd Trimester	6.4	6.3	5.4	5.2	4.0	3.9	3.4	3.6	4.0	3.2	2.7
No Care	7.0	6.8	6.6	6.7	7.5	6.5	6.7	6.4	6.0	4.7	5.2
Prenatal visits											
1-4	12.0	12.4	11.3	12.0	10.0	12.5	12.5	11.0	10.7	9.6	9.5
≥5	74.3	73.8	77.3	79.0	79.3	79.9	80.6	82.3	83.1	85.5	85.0
≥9	52.0	50.6	53.4	51.3	52.5	50.9	52.7	53.5	54.4	58.5	58.2
≥13	21.6	22.3	24.0	23.1	22.2	19.9	16.9	18.6	20.7	22.5	21.3
Medical risks											
Complications¹	66.0	67.0	63.9	64.0	58.5	61.1	63.5	62.4	62.2	67.1	69.0
Gestational age²											
Preterm (<37 weeks)	69.4	69.8	69.1	68.4	69.7	71.7	74.3	71.5	71.6	72.0	71.1
Birth weight											
<1,500 grams	15.5	17.0	15.4	16.2	15.7	18.2	18.0	18.2	18.2	16.3	17.1
<1,000 grams	7.7	7.5	7.3	8.8	8.2	9.0	9.4	8.6	9.8	7.4	8.4
Child's sex											
Male	51.2	50.6	48.2	48.3	47.7	48.1	47.1	47.2	49.3	48.9	48.5
Female	48.8	49.4	51.8	51.7	52.3	51.9	52.9	52.8	50.7	51.1	51.5
Plurality											
Multiple births	18.8	16.3	18.8	19.1	18.7	19.5	18.9	19.1	19.5	18.3	18.6
Caesarean delivery	31.2	33.1	31.9	33.5	35.3	36.5	38.3	39.8	40.1	41.4	42.6
Place of delivery											
Hospital ³	99.8	99.7	99.8	99.9	99.8	99.7	99.6	99.9	99.7	99.9	99.9
Attendant at birth											
Midwife ⁴	4.3	4.2	3.8	3.4	2.7	2.8	2.5	1.5	2.4	2.9	2.6
Previous live births											
1 or more	60.1	59.7	58.8	60.6	61.4	60.7	60.8	61.2	63.8	62.2	63.0

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center or matei

⁴Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-10
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER
AND BIRTH COMPLICATIONS, ARIZONA, 1999-2009
(BLACK OR AFRICAN AMERICAN MOTHERS)

Characteristic	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Number of births	2,699	2,760	2,736	2,753	3,022	3,216	3,450	3,864	4,165	4,301	4,378
Age of mother											
≤19 years	22.3	20.7	19.9	17.0	18.2	16.8	16.5	15.6	14.9	15.3	13.8
≥30 years	22.2	23.9	21.5	25.1	23.9	25.7	25.3	26.2	27.0	26.7	28.2
Marital status											
Unmarried	64.0	62.2	64.2	61.8	62.7	62.0	61.9	62.3	61.9	62.6	62.7
Mother's education											
<9 years	2.2	2.7	2.7	2.5	2.6	3.0	4.8	4.6	4.4	5.0	4.4
Prenatal care began											
1st Trimester	71.1	71.1	73.8	75.2	75.7	75.8	76.6	77.4	76.8	77.6	80.3
3rd Trimester	4.5	3.4	4.1	3.6	4.4	4.4	3.4	2.8	3.7	3.7	2.9
No Care	1.9	2.4	1.6	1.7	3.5	3.3	2.6	2.3	2.7	2.1	1.6
Prenatal visits											
1-4	4.9	4.2	4.5	4.3	4.1	4.6	4.5	4.1	4.4	3.7	3.6
≥5	83.3	85.5	88.2	91.3	89.3	91.0	92.7	93.3	92.8	93.9	94.5
≥9	68.2	70.4	73.1	75.0	74.7	75.2	74.4	74.6	75.0	75.4	78.6
≥13	26.7	30.0	34.7	31.3	31.7	28.5	24.6	26.9	28.2	28.5	29.5
Medical risks											
Complications¹	46.4	47.9	46.1	48.5	46.6	44.1	44.4	44.4	46.4	50.3	53.4
Gestational age²											
Preterm (<37 weeks)	14.5	14.9	14.8	14.0	14.4	14.4	16.4	14.5	14.9	14.0	14.4
Birth weight											
<2,500 grams	12.3	13.0	13.7	11.9	11.7	11.6	12.6	12.7	12.8	11.7	12.8
<1,500 grams	2.8	2.6	2.7	2.5	2.2	2.5	2.5	2.3	2.6	2.6	2.8
Child's sex											
Male	53.7	50.7	49.0	52.0	51.8	51.3	50.5	50.8	51.8	52.4	52.0
Female	46.3	49.3	51.0	48.0	48.2	48.7	49.5	49.2	48.2	47.6	48.0
Plurality											
Multiple births	2.9	3.7	4.7	3.3	3.8	3.4	3.1	3.8	3.6	4.1	4.2
Caesarean delivery	19.3	20.6	22.4	24.2	25.5	25.8	27.4	29.1	30.3	30.5	30.9
Place of delivery											
Hospital ³	99.7	99.7	99.0	99.6	99.2	99.3	99.5	99.3	99.6	99.4	99.6
Attendant at birth											
Midwife ⁴	5.2	5.1	5.0	3.8	3.4	3.5	3.0	2.6	2.4	3.4	3.2
Previous live births											
1 or more	61.0	62.7	62.8	62.3	61.4	63.5	62.3	61.4	63.2	62.7	62.8

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center or matei

⁴Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-11
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER
AND BIRTH COMPLICATIONS, ARIZONA, 1999-2009
(BLACK OR AFRICAN AMERICAN MOTHERS)

Characteristic	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Number of LBW births	332	358	392	327	354	373	435	489	532	503	559
Age of mother											
≤19 years	22.9	23.7	17.9	18.0	16.9	18.0	16.8	17.0	15.8	16.7	13.8
≥30 years	24.8	24.9	28.0	29.1	24.6	26.8	26.7	29.2	28.2	31.8	30.6
Marital status											
Unmarried	64.4	68.0	68.3	67.0	68.1	68.4	65.7	66.1	66.4	65.2	69.8
Mother's education											
<9 years	2.2	3.7	2.4	1.8	2.5	2.1	6.2	4.3	5.5	4.4	3.2
Prenatal care began											
1st Trimester	68.1	67.1	69.9	74.0	74.0	72.1	75.6	75.9	77.4	77.7	79.4
3rd Trimester	4.3	2.3	2.4	2.8	5.4	3.5	2.3	1.6	3.4	3.4	2.5
No Care	2.5	6.3	4.5	4.6	5.9	6.7	4.4	3.5	3.6	4.4	4.1
Prenatal visits											
1-4	8.4	6.9	9.3	6.7	9.3	9.4	9.0	9.4	9.0	6.8	7.3
≥5	74.6	76.6	76.8	84.7	79.7	82.3	85.5	86.7	87.4	88.5	88.0
≥9	55.7	52.3	57.6	56.9	56.8	59.5	57.7	60.9	60.0	62.0	64.0
≥13	25.1	25.7	29.1	22.3	28.8	24.1	23.4	21.3	22.9	21.3	23.8
Medical risks											
Complications¹	70.0	69.7	67.2	65.1	59.3	61.7	64.1	63.0	67.7	68.4	72.8
Gestational age²											
Preterm (<37 weeks)	72.6	70.1	69.1	68.5	70.1	71.6	74.3	70.6	70.1	71.6	72.1
Birth weight											
<1,500 grams	22.9	19.8	19.4	21.4	18.4	21.7	20.0	18.2	20.3	22.1	22.2
<1,000 grams	14.5	10.9	12.5	12.8	11.6	10.5	11.0	9.8	10.2	13.1	10.9
Child's sex											
Male	50.2	47.4	43.5	48.9	49.4	47.5	47.1	45.2	47.9	49.7	49.7
Female	49.8	52.6	56.5	51.1	50.6	52.5	52.9	54.6	52.1	50.3	50.3
Plurality											
Multiple births	17.3	20.9	25.1	18.7	19.5	20.1	14.5	18.2	18.6	19.1	22.0
Caesarean delivery	31.3	33.4	34.4	38.5	34.7	36.2	39.3	37.4	43.0	44.9	45.6
Place of delivery											
Hospital ³	100.0	99.7	99.7	100.0	99.7	98.7	100.0	99.6	100.0	99.8	99.6
Attendant at birth											
Midwife ⁴	3.1	2.3	2.1	1.8	2.3	1.6	1.1	1.0	1.1	2.0	1.3
Previous live births											
1 or more	61.5	65.4	66.4	64.8	64.7	63.5	59.8	62.8	64.5	62.8	61.4

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center or mater

⁴Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-12
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER
AND BIRTH COMPLICATIONS, ARIZONA, 1999-2009
(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)**

Characteristic	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Number of births	5,295	5,602	5,340	5,545	5,881	6,120	6,293	6,364	6,408	6,362	6,170
Age of mother											
≤19 years	19.8	19.4	19.0	18.7	19.4	18.7	19.1	19.1	20.1	18.6	19.0
≥30 years	25.4	25.9	24.3	25.8	23.8	24.9	25.4	23.6	24.0	24.0	23.8
Marital status											
Unmarried	69.2	68.5	70.1	69.7	72.4	73.1	72.9	74.8	75.9	75.8	76.9
Mother's education											
<9 years	4.9	4.7	4.1	3.9	3.8	3.9	3.5	3.5	3.0	3.2	2.8
Prenatal care began											
1st Trimester	64.1	65.8	64.6	64.4	68.8	69	67.9	65.9	65.9	65.1	66.0
3rd Trimester	7.4	7.4	6.8	7.1	6.0	5.6	6.6	7.0	6.6	7.8	7.4
No Care	2.4	2.4	1.9	2.6	2.4	3.0	3.0	3.5	3.2	3.1	2.1
Prenatal visits											
1-4	9.7	10.2	9.7	9.8	9.3	9.0	9.6	9.7	8.8	9.3	8.6
≥5	84.5	84.2	85.5	85.6	85.7	87.0	87.3	86.5	87.7	87.4	88.9
≥9	59.4	59.6	60.3	61.2	60.9	62.5	63.3	60.5	61.2	59.9	61.5
≥13	19.6	20.0	20.3	19.0	20.4	20.6	19.5	18.3	19.4	18.7	17.9
Medical risks/ Complications¹	54.8	55.1	54.4	55.4	51.4	55.7	55.1	56.5	57.2	54.8	54.3
Gestational age²											
Preterm (<37 weeks)	9.9	9.4	10.1	9.6	9.8	10.9	10.6	11.7	10.4	9.8	9.6
Birth weight											
<2,500 grams	7.4	6.7	7.3	6.5	6.8	7.2	7.3	7.4	6.6	6.7	6.4
<1,500 grams	1.2	1.4	1.0	0.9	0.9	0.9	1.1	1.1	1.0	1.1	0.9
Child's sex											
Male	50.0	50.9	50.0	50.4	49.5	51.2	50.9	50.0	50.2	50.1	50.4
Female	50.0	49.1	50.0	49.6	50.5	48.8	49.1	50.0	49.8	49.9	49.6
Plurality											
Multiple births	1.8	1.5	1.5	1.8	1.7	1.7	1.9	1.8	1.4	1.5	1.6
Caesarean delivery	15.1	15.8	16.7	18.4	19.2	19.4	20.6	22.4	22.9	23.1	23.2
Place of delivery											
Hospital ³	99.7	99.6	99.4	99.6	99.5	99.6	99.5	99.6	99.7	99.7	99.7
Attendant at birth											
Midwife ⁴	34.7	34.4	31.4	33.0	31.5	32.3	31.6	28.8	29.3	28.0	27.6
Previous live births											
1 or more	68.3	70.1	68.1	67.9	66.8	67.2	67.5	68.1	66.5	66.9	66.6

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center or matei

⁴Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-13
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER
AND BIRTH COMPLICATIONS, ARIZONA, 1999-2009
(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)

Characteristic	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Number of LBW births	391	376	392	359	402	441	460	473	426	428	396
Age of mother											
≤19 years	21.9	17.7	20.4	16.2	15.2	18.6	19.6	19.2	22.8	16.8	18.2
≤30 years	27.2	30.6	28.6	33.4	31.6	28.3	29.8	28.5	28.4	26.6	28.8
Marital status											
Unmarried	72.1	69.9	71.7	70.5	72.9	74.6	73.3	76.5	75.8	80.1	79.3
Mother's education											
<9 years	4.2	4.2	4.3	4.2	6.0	4.5	3.9	4.2	2.1	4.4	2.5
Prenatal care began											
1st Trimester	61.1	61.3	63.3	61.6	65.2	67.1	67.0	63.0	67.4	66.8	65.2
3rd Trimester	6.5	5.2	3.8	4.7	5.7	3.2	4.8	7.0	5.4	6.8	5.8
No Care	5.7	7.5	4.8	9.2	7.5	5.9	8.5	9.5	8.5	7.5	4.3
Prenatal visits											
1-4	13.2	16.1	16.8	14.2	13.2	13.8	13.0	15.0	11.5	16.4	12.1
≥5	72.6	66.2	72.2	71.9	76.6	78.9	77.4	74.8	79.6	75.7	81.8
≥9	47.4	44.2	43.9	44.0	45.5	50.8	50.2	44.4	46.2	44.6	52.0
≥13	16.7	15.3	17.3	14.8	17.4	16.3	15.4	11.4	15.7	16.6	16.9
Medical risks/ Complications¹	81.3	78.4	79.8	77.4	72.9	71.7	72.8	74.8	69.7	66.1	69.4
Gestational age²											
Preterm (<37 weeks)	70.6	72.9	71.2	70.5	69.7	68.5	70.2	74.2	71.8	71.7	69.7
Birth weight											
<1,500 grams	15.9	20.7	14.1	14.2	13.2	12.7	15.2	15.4	15.3	16.8	14.4
<1,000 grams	6.6	9.0	6.4	7.8	6.2	5.2	6.5	5.5	7.5	7.9	8.1
Child's sex											
Male	50.9	49.1	46.2	51.8	49.0	53.7	51.3	52.0	46.0	45.6	48.2
Female	48.9	50.9	53.8	48.2	51.0	46.3	48.7	48.0	54.0	54.4	51.8
Plurality											
Multiple births	15.5	13.5	9.7	11.7	15.2	13.2	11.7	13.5	11.3	13.3	13.1
Caesarean delivery	32.7	40.5	33.9	39.3	38.3	36.5	36.5	39.3	40.1	39.3	39.4
Place of delivery											
Hospital ³	100.0	98.7	99.2	99.2	99.3	99.8	98.9	99.8	99.8	99.8	99.5
Attendant at birth											
Midwife ⁴	13.2	11.9	15.8	14.8	15.9	16.1	13.3	11.8	14.3	10.7	11.1
Previous live births											
1 or more	61.6	70.1	67.1	62.7	64.4	62.4	66.5	68.1	59.9	66.4	64.1

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center or matei

⁴Licensed Midwife or Certified Nurse Midwife.

TABLE 1B-14
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER
AND BIRTH COMPLICATIONS, ARIZONA, 1999-2009
(ASIAN OR PACIFIC ISLANDER MOTHERS)

Characteristic	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Number of births	1,875	2,041	2,104	2,281	2,524	2,614	2,805	3,136	3,412	3,425	3,396
Age of mother											
≤19 years	5.8	4.9	4.9	4.2	4.2	3.5	3.4	2.9	3.0	3.3	2.6
≥30 years	46.6	47.4	48.3	49.5	51.6	52.8	52.7	53.7	53.9	55.9	55.6
Marital status											
Unmarried	18.1	15.1	17.0	15.5	16.3	15.8	17.0	16.2	17.6	17.4	15.8
Mother's education											
<9 years	3.7	2.4	2.6	1.5	2.2	2.4	1.8	2.4	1.6	2.3	2.2
Prenatal care began											
1st Trimester	81.5	85.0	82.7	84.3	84.2	84.7	86.3	86.1	86.5	86.4	88.1
3rd Trimester	2.9	1.9	2.4	2.0	2.6	3.1	1.9	2.1	2.1	3.1	1.9
No Care	0.9	0.9	1.1	1.1	1.6	1.5	1.0	1.2	1.5	1.3	1.3
Prenatal visits											
1-4	2.5	2.4	2.4	2.2	2.9	2.9	2.5	2.0	1.8	2.4	2.1
≥5	92.6	92.6	94.6	94.4	92.5	94.9	96.4	96.5	96.6	96.2	96.4
≥9	79.8	82.6	82.1	81.9	80.5	82.3	84.1	82.7	83.9	83.2	85.6
≥13	27.2	31.3	29.6	27.8	26.2	24.6	25.8	30.3	35.3	33.5	35.6
Medical risks/ Complications¹	40.9	44.1	45.0	44.7	44.8	47.1	45.0	43.5	45.4	46.4	48.1
Gestational age²											
Preterm (<37 weeks)	10.2	9.3	9.8	11.0	10.8	11.0	10.2	10.4	9.6	10.0	10.0
Birth weight											
<2,500 grams	8.0	7.4	7.7	8.6	8.5	8.0	8.0	8.5	8.0	9.1	8.8
<1,500 grams	0.9	1.0	0.9	1.2	1.5	1.1	1.2	1.1	1.0	1.5	1.5
Child's sex											
Male	50.2	50.4	49.9	50.4	50.8	52.5	50.7	52.2	53.2	51.3	51.7
Female	49.8	49.6	50.1	49.6	49.2	47.5	49.3	47.8	46.8	48.7	48.3
Plurality											
Multiple births	2.9	1.9	1.7	3.9	3.2	2.4	2.0	2.7	2.3	3.6	2.9
Caesarean delivery	20.7	19.7	23.8	16.2	25.6	26.5	28.1	30.5	30.0	32.0	32.6
Place of delivery											
Hospital ³	99.0	99.5	99.4	99.1	99.2	99.3	99.5	99.4	99.5	99.4	99.4
Attendant at birth											
Midwife ⁴	3.8	4.0	4.0	2.8	2.9	2.8	2.3	2.1	1.7	2.7	3.0
Previous live births											
1 or more	55.2	51.3	53.0	52.4	53.0	53.8	54.4	53.3	54.5	52.9	54.8

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center or matei

⁴Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-15
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER
AND BIRTH COMPLICATIONS, ARIZONA, 1999-2009
(ASIAN OR PACIFIC ISLANDER MOTHERS)**

Characteristic	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Number of LBW births	150	151	163	197	215	210	223	268	272	311	299
Age of mother											
≤19 years	10.0	7.9	6.1	6.6	1.4	6.2	3.6	1.1	2.2	3.5	3.3
≤30 years	46.7	41.7	48.5	52.3	60.5	51.9	50.2	53.7	55.5	59.5	54.8
Marital status											
Unmarried	22.0	20.5	18.4	21.8	14.4	20.0	22.4	18.7	16.9	21.5	20.4
Mother's education											
<9 years	4.0	3.3	1.8	1.5	2.3	1.9	1.3	3.0	1.1	2.6	1.7
Prenatal care began											
1st Trimester	76	76.2	82.8	86.8	83.7	87.6	83.9	87.7	83.8	82.6	87.0
3rd Trimester	1.3	3.3	0.6	1.0	1.9	2.4	3.6	1.5	1.5	3.5	3.0
No Care	2.0	4.0	3.1	4.6	3.3	1.9	2.7	3.0	3.7	4.2	2.0
Prenatal visits											
1-4	4.7	7.9	6.1	3.0	5.6	6.7	7.2	3.7	4.0	7.7	7.4
≥5	88.0	81.5	89.0	86.3	87.0	90.0	89.7	92.9	92.3	88.1	90.0
≥9	65.3	58.3	71.8	65.3	66.5	67.1	67.3	68.7	67.6	69.8	72.6
≥13	22.7	20.5	23.9	29.4	31.2	19.0	22.4	22.8	29.4	34.1	34.4
Medical risks/ Complications¹	60.0	64.2	65.0	63.5	55.8	59.5	67.7	67.9	66.5	61.1	70.2
Gestational age²											
Preterm (<37 weeks)	74.7	80.1	73.6	82.7	69.3	60.0	65.9	67.2	68.0	60.5	66.2
Birth weight											
<1,500 grams	10.7	13.2	11.7	13.7	18.1	13.8	15.7	13.4	12.9	16.1	17.4
<1,000 grams	4.7	5.3	4.3	6.6	7.4	9.0	5.8	5.2	4.8	9.3	8.7
Child's sex											
Male	48.0	49.7	50.9	49.2	46.0	45.7	47.1	49.3	47.4	51.8	50.2
Female	52.0	50.3	49.1	50.8	54.0	54.3	52.9	50.7	52.6	48.2	49.8
Plurality											
Multiple births	18.7	13.2	12.9	30.5	28.4	21.4	19.7	19.0	21.7	26.7	22.4
Caesarean delivery	32.0	25.8	35.6	40.1	47.9	38.1	46.6	44.4	40.4	49.8	51.5
Place of delivery											
Hospital ³	99.3	100.0	100.0	99.5	100.0	100.0	100.0	100.0	100.0	99.7	100.0
Attendant at birth											
Midwife ⁴	1.3	1.3	1.2	0.5	0.5	1.4	0.4	1.9	1.1	2.6	1.7
Previous live births											
1 or more	54.7	43.7	47.2	44.2	47.9	51.4	55.6	50.0	47.1	51.8	48.8

¹Reported medical risks for this pregnancy and/or complications of labor and delivery.

²Physician's estimate.

³Hospital, clinic, medical center or mater

⁴Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-16
SINGLE AND PLURAL LIVE BIRTHS BY BIRTHWEIGHT, ARIZONA RESIDENTS, 1999-2009**

Weight in grams	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Under 1000, total	437	438	437	520	510	531	579	559	589	538	523
Single	346	350	346	396	393	434	452	413	450	419	431
Plural	91	88	91	124	117	97	127	146	139	119	92
1,000-1,499, total	448	552	486	462	514	569	540	670	634	618	577
Single	335	392	362	334	369	426	404	469	452	431	420
Plural	113	160	124	128	144	143	136	201	182	187	157
1,500-1,999, total	1,096	1,143	1,179	1,151	1,295	1,309	1,254	1,425	1,362	1,360	1,211
Single	779	799	796	808	913	882	909	979	935	944	835
Plural	317	344	383	343	382	427	345	446	427	416	376
2,000-2,499, total	3,555	3,843	3,841	3,793	4,108	4,295	4,267	4,612	4,700	4,510	4,262
Single	2,854	3,082	3,099	3,014	3,243	3,370	3,397	3,771	3,762	3,598	3,432
Plural	701	761	742	779	863	925	870	841	938	912	830
2,500-3,999, total	67,569	71,466	71,936	74,047	76,777	79,390	81,676	86,943	87,739	84,904	79,423
Single	66,690	70,550	71,009	73,035	75,685	78,324	80,530	85,755	86,631	83,674	78,297
Plural	879	916	927	1,012	1,063	1,066	1,146	1,188	1,108	1,230	1,126
4,000 and over, total	7,316	7,503	7,297	7,364	7,439	7,269	7,463	7,821	7,635	7,268	6,601
Single	7,313	7,501	7,295	7,363	7,434	7,266	7,462	7,817	7,634	7,267	6,601
Plural	3	2	2	1	2	3	1	4	1	1	0
All weights, total¹	80,505	84,985	85,213	87,379	90,783	93,396	95,798	102,042	102,687	99,215	92,616
Single	78,397	82,714	82,943	84,984	88,167	90,732	93,173	99,216	99,889	96,347	90,034
Plural	2,107	2,271	2,270	2,395	2,581	2,663	2,625	2,830	2,798	2,868	2,582

¹ Includes records with unknown weight.

**TABLE 1B-17
RESIDENT BIRTHS BY MONTH OF OCCURRENCE, ARIZONA, 1999-2009**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1999	6,577	6,118	6,860	6,370	6,334	6,426	7,004	7,079	7,331	6,935	6,532	6,939	80,505
Percent	8.2	7.6	8.5	7.9	7.9	8.0	8.7	8.8	9.1	8.6	8.1	8.6	100.0
2000	7,051	6,498	6,987	6,431	6,799	6,867	7,273	7,608	7,666	7,345	7,172	7,288	84,985
Percent	8.3	7.6	8.2	7.6	8.0	8.1	8.6	9.0	9.0	8.6	8.4	8.6	100.0
2001	7,232	6,481	7,132	6,516	6,792	6,660	7,367	7,807	7,458	7,377	7,083	7,308	85,213
Percent	8.5	7.6	8.4	7.6	8.0	7.8	8.6	9.2	8.8	8.7	8.3	8.6	100.0
2002	7,194	6,499	7,123	6,739	7,076	6,960	7,506	7,908	7,962	7,778	7,088	7,546	87,379
Percent	8.2	7.4	8.2	7.7	8.1	8.0	8.6	9.1	9.1	8.9	8.1	8.6	100.0
2003	7,526	6,842	7,285	7,105	7,375	7,096	7,932	8,209	8,207	8,068	7,221	7,917	90,783
Percent	8.3	7.5	8.0	7.8	8.1	7.8	8.7	9.0	9.0	8.9	8.0	8.7	100.0
2004	7,570	7,191	7,742	7,196	7,231	7,305	8,005	8,174	8,585	8,346	8,014	8,037	93,396
Percent	8.1	7.7	8.3	7.7	7.7	7.8	8.6	8.8	9.2	8.9	8.6	8.6	100.0
2005	7,700	7,146	7,946	7,515	7,583	7,802	8,286	8,746	8,712	8,058	7,926	8,378	95,798
Percent	8.0	7.5	8.3	7.8	7.9	8.1	8.6	9.1	9.1	8.4	8.3	8.7	100.0
2006	8,089	7,614	8,371	7,724	8,088	8,311	8,897	9,265	9,166	9,140	8,618	8,759	102,042
Percent	7.9	7.5	8.2	7.6	7.9	8.1	8.7	9.1	9.0	9.0	8.4	8.6	100.0
2007	8,659	7,721	8,324	7,885	8,207	8,341	9,011	9,396	9,077	9,101	8,388	8,577	102,687
Percent	8.4	7.5	8.1	7.7	8.0	8.1	8.8	9.2	8.8	8.9	8.2	8.4	100.0
2008	8,656	8,158	8,094	7,694	8,124	7,677	8,783	8,779	8,760	8,411	7,740	8,339	99,215
Percent	8.7	8.2	8.2	7.8	8.2	7.7	8.9	8.8	8.8	8.5	7.8	8.4	100.0
2009	7,784	7,333	8,069	7,371	7,464	7,377	8,060	8,194	8,097	7,872	7,267	7,728	92,616
Percent	8.4	7.9	8.7	8.0	8.1	8.0	8.7	8.8	8.7	8.5	7.8	8.3	100.0

**TABLE 1B-18
BIRTHS BY DAY AND MONTH OF OCCURRENCE, ARIZONA RESIDENTS, 2009**

TOTAL	Month of birth												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
TOTAL	92,616	7,784	7,333	8,069	7,371	7,464	7,377	8,060	8,194	8,097	7,872	7,267	7,728
1	2,939	212	169	212	270	253	240	289	217	303	281	180	313
2	3,146	228	259	292	286	173	284	288	173	270	334	270	289
3	3,137	214	288	321	271	176	280	236	265	308	226	259	293
4	2,952	164	289	291	196	254	240	212	275	305	188	285	253
5	2,959	254	309	311	188	234	277	158	302	207	273	255	191
6	3,035	281	288	267	246	266	185	271	304	176	282	283	186
7	2,930	289	202	246	254	280	170	262	263	209	268	205	282
8	3,037	295	192	204	279	265	248	311	230	263	287	201	262
9	3,210	283	277	284	272	194	291	281	195	318	285	239	291
10	3,154	198	300	272	270	175	261	301	264	307	245	288	273
11	2,954	171	269	288	216	250	227	216	275	300	193	297	252
12	3,009	288	293	292	177	264	252	158	302	217	255	313	198
13	3,024	278	279	274	249	254	198	257	293	199	275	288	180
14	3,117	305	199	244	292	272	198	280	281	294	270	212	270
15	3,089	308	204	180	267	276	270	322	229	299	275	177	282
16	3,134	287	276	272	254	228	268	287	201	294	236	269	262
17	3,058	199	297	281	271	166	254	289	263	306	174	279	279
18	3,176	181	339	280	227	258	297	205	302	320	173	274	320
19	3,010	256	281	290	175	257	252	183	319	248	284	260	205
20	3,041	290	285	271	226	271	221	257	316	196	259	272	177
21	3,093	291	231	203	281	283	192	295	294	268	275	213	267
22	3,035	267	171	185	274	294	259	277	253	303	291	164	297
23	3,129	259	274	241	271	207	286	282	215	274	283	270	267
24	3,068	224	283	285	247	182	292	282	274	289	219	313	178
25	2,779	184	277	309	167	186	276	226	282	302	180	252	138
26	2,902	268	280	303	176	271	262	193	291	249	283	142	184
27	2,974	285	301	228	258	283	197	272	283	209	282	190	186
28	3,044	253	221	214	280	314	170	300	297	266	282	177	270
29	2,885	292		185	272	284	238	304	239	310	278	169	314
30	2,894	279		258	259	216	292	278	220	288	250	271	283
31	1,702	201		286		178		288	277		186		286

**TABLE 1B-19
LIVE BIRTHS BY MOTHER'S AGE AND FATHER'S AGE, ARIZONA, 2009**

Father's age group	Mother's age group										TOTAL
	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known	
<15	3	8	1	1	0	0	0	0	0	0	13
15-17	30	658	255	53	5	0	0	0	0	0	1,001
18-19	12	894	1,562	700	61	12	6	1	0	0	3,248
20-24	4	625	2,903	9,323	1,745	380	95	20	2	0	15,097
25-29	0	78	621	7,050	11,447	2,416	434	53	1	0	22,100
30-34	0	14	120	1,834	7,634	8,639	1,614	172	7	0	20,034
35-39	0	4	37	604	2,016	4,920	3,909	398	21	0	11,909
40-44	0	1	12	206	622	1,321	1,865	676	40	2	4,745
45-49	0	1	5	69	222	395	565	343	55	1	1,656
50-54	0	0	2	16	53	128	154	95	18	0	466
55+	0	0	1	12	35	42	69	48	13	2	222
Unknown	83	1,218	1,800	4,006	2,600	1,479	720	202	13	4	12,125
TOTAL	132	3,501	7,319	23,874	26,440	19,732	9,431	2,008	170	9	92,616

**TABLE 1B-20
LIVE BIRTHS BY MOTHER'S RACE/ETHNICITY AND FATHER'S RACE/ETHNICITY, ARIZONA, 2009**

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	Other race	Un-known	
White non-Hispanic	29,935	3,754	381	393	870	29	81	35,443
Hispanic or Latino	4,207	26,783	248	772	241	25	52	32,328
Black or African American	1,105	812	2,507	147	113	13	13	4,710
American Indian or Alaska Native	355	340	22	3,532	26	4	10	4,289
Asian or Pacific Islander	491	194	14	48	1,888	1	5	2,641
Other race	33	21	5	6	4	35	1	105
Unknown	3,655	6,458	1,201	1,272	254	13	247	13,100
TOTAL	39,781	38,362	4,378	6,170	3,396	120	409	92,616

**TABLE 1B-21
LIVE BIRTHS BY MOTHER'S AND FATHER'S EDUCATION, ARIZONA, 2009**

Father's education	Mother's education							TOTAL
	<8	8	9-11	12	13-16	17+	Unknown	
<8	1,485	256	1,063	618	197	21	8	3,648
8	175	328	413	401	128	17	2	1,464
9-11	727	426	5,664	3,586	1,383	109	27	11,922
12	397	409	3,882	13,807	7,070	793	69	26,427
13-16	122	105	1,044	4,728	17,997	3,297	36	27,329
17+	22	18	105	620	3,776	4,066	13	8,620
Unknown	606	586	4,322	4,559	2,404	204	525	13,206
TOTAL	3,534	2,128	16,493	28,319	32,955	8,507	680	92,616

**TABLE 1B-22
RESIDENT BIRTHS BY MOTHER'S RACE AND HISPANIC OR LATINO ORIGIN BY YEAR, ARIZONA, 1999-2009**

Mother's race/ethnicity	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Total resident births, all groups	80,505	84,985	85,213	87,379	90,783	93,396	95,798	102,042	102,687	99,215	92,616
White non-Hispanic or Latino	38,711	39,850	38,934	38,819	38,842	39,271	39,657	43,013	42,216	41,925	39,781
Hispanic or Latino, total	30,784	33,893	35,103	36,089	39,101	40,822	42,156	44,862	45,731	42,639	38,362
Mexican	29,802	32,771	33,929	34,886	37,322	38,823	39,946	42,870	43,587	40,004	36,680
Puerto Rican	215	239	259	251	273	297	321	254	388	327	351
Cuban	43	56	57	68	63	53	66	65	93	80	81
Other Central or South American	552	639	697	725	784	875	1,013	1,212	1,204	1,124	981
Other Hispanic	172	188	161	159	659	774	810	461	459	1,104	269
Black or African American	2,699	2,760	2,736	2,753	3,022	3,216	3,450	3,864	4,165	4,301	4,378
American Indian or Alaska Native	5,295	5,602	5,340	5,545	5,881	6,120	6,293	6,364	6,408	6,362	6,170
Asian and Pacific Islander, total	1,875	2,041	2,104	2,281	2,524	2,614	2,805	3,136	3,412	3,425	3,396
Chinese	142	172	140	155	156	165	170	198	188	192	160
Japanese	58	56	64	67	71	50	68	75	65	52	51
Hawaiian	38	44	34	46	63	61	59	53	67	68	57
Filipino	197	260	264	288	327	318	348	354	429	372	368
Other Asian and Pacific Islander	1,440	1,509	1,602	1,725	1,907	2,020	2,160	2,456	2,663	2,741	2,760
Unknown (incl. unspecified other)	1,141	839	996	1,892	1,413	1,353	1,437	803	755	563	529

**TABLE 1B-23
TOTAL BIRTHS, BIRTHS AND RATIOS OF BIRTH BY MOTHER'S MARITAL STATUS,
AGE GROUP AND RACE/ETHNICITY, ARIZONA, 2009**

		TOTAL	Mother's age group											
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known		
All race/ ethnic groups *	Married	Count	49,748	0	218	1,097	8,811	16,520	14,455	7,054	1,444	144	5	
		Percent	53.7%	0.0%	6.2%	15.0%	36.9%	62.5%	73.3%	74.8%	71.9%	84.7%	55.6%	
	Unmarried	Count	41,856	132	3,277	6,198	14,816	9,586	5,045	2,240	533	25	4	
		Percent	45.2%	100.0%	93.6%	84.7%	62.1%	36.3%	25.6%	23.8%	26.5%	14.7%	44.4%	
	Other**	Count	1,012	0	6	24	247	334	232	137	31	1	0	
		Percent	1.1%	0.0%	0.2%	0.3%	1.0%	1.3%	1.2%	1.5%	1.5%	0.6%	0.0%	
	TOTAL	Count	92,616	132	3,501	7,319	23,874	26,440	19,732	9,431	2,008	170	9	
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
	White non- Hispanic	Married	Count	27,532	0	50	402	4,459	9,435	8,389	3,927	780	88	2
			Percent	69.2%	0.0%	7.7%	19.6%	49.5%	75.9%	84.5%	85.4%	79.0%	93.6%	100.0%
Unmarried		Count	11,825	20	597	1,632	4,428	2,861	1,460	624	197	6	0	
		Percent	29.7%	100.0%	92.0%	79.8%	49.1%	23.0%	14.7%	13.6%	20.0%	6.4%	0.0%	
Other		Count	424	0	2	12	125	141	84	50	10	0	0	
		Percent	1.1%	0.0%	0.3%	0.6%	1.4%	1.1%	0.8%	1.1%	1.0%	0.0%	0.0%	
TOTAL		Count	39,781	20	649	2,046	9,012	12,437	9,933	4,601	987	94	2	
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Hispanic or Latino		Married	Count	16,056	0	151	595	3,472	5,152	4,156	2,082	420	28	0
			Percent	41.9%	0.0%	6.7%	14.9%	31.6%	50.7%	60.4%	63.2%	63.3%	77.8%	0.0%
	Unmarried	Count	21,840	87	2,098	3,395	7,408	4,859	2,622	1,136	227	7	1	
		Percent	56.9%	100.0%	93.1%	84.9%	67.5%	47.8%	38.1%	34.5%	34.2%	19.4%	100.0%	
	Other	Count	466	0	4	11	99	152	108	74	17	1	0	
		Percent	1.2%	0.0%	0.2%	0.3%	0.9%	1.5%	1.6%	2.2%	2.6%	2.8%	0.0%	
	TOTAL	Count	38,362	87	2,253	4,001	10,979	10,163	6,886	3,292	664	36	1	
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
	Black or African American	Married	Count	1,596	0	4	27	299	515	445	251	49	6	0
			Percent	36.5%	0.0%	2.2%	6.5%	21.8%	44.1%	59.2%	63.4%	63.6%	60.0%	0.0%
Unmarried		Count	2,746	6	177	389	1,061	642	296	143	28	4	0	
		Percent	62.7%	100.0%	97.8%	93.5%	77.4%	54.9%	39.4%	36.1%	36.4%	40.0%	0.0%	
Other		Count	36	0	0	0	11	12	11	2	0	0	0	
		Percent	0.8%	0.0%	0.0%	0.0%	0.8%	1.0%	1.5%	0.5%	0.0%	0.0%	0.0%	
TOTAL		Count	4,378	6	181	416	1,371	1,169	752	396	77	10	0	
		Percent	100.0%	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	1,360	0	11	54	302	435	319	188	47	4	0
			Percent	22.0%	0.0%	2.8%	7.1%	14.8%	29.1%	35.5%	41.4%	41.6%	80.0%	0.0%
	Unmarried	Count	4,746	17	383	704	1,726	1,038	556	258	62	1	1	
		Percent	76.9%	100.0%	97.2%	92.8%	84.8%	69.5%	61.9%	56.8%	54.9%	20.0%	100.0%	
	Other	Count	64	0	0	1	7	21	23	8	4	0	0	
		Percent	1.0%	0.0%	0.0%	0.1%	0.3%	1.4%	2.6%	1.8%	3.5%	0.0%	0.0%	
	TOTAL	Count	6,170	17	394	759	2,035	1,494	898	454	113	5	1	
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
	Asian or Pacific Islander	Married	Count	2,844	0	2	16	233	886	1,062	526	111	8	0
			Percent	83.7%	0.0%	11.1%	23.5%	60.8%	85.4%	91.8%	88.1%	88.1%	100.0%	0.0%
Unmarried		Count	536	2	16	52	146	146	91	68	15	0	0	
		Percent	15.8%	100.0%	88.9%	76.5%	38.1%	14.1%	7.9%	11.4%	11.9%	0.0%	0.0%	
Other		Count	16	0	0	0	4	5	4	3	0	0	0	
		Percent	0.5%	0.0%	0.0%	0.0%	1.0%	0.5%	0.3%	0.5%	0.0%	0.0%	0.0%	
TOTAL		Count	3,396	2	18	68	383	1,037	1,157	597	126	8	0	
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%	

* Includes records with unknown race/ethnicity.

** May include the following: "Refused", "Yes, divorced" and "Unknown".

**TABLE 1B-24
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY AND NUMBER OF PREVIOUS LIVE BIRTHS,
ARIZONA, 2009**

	TOTAL	Mother's age group										
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un- known	
All race/ ethnic groups	TOTAL	92,616	132	3,501	7,319	23,874	26,440	19,732	9,431	2,008	170	9
	None	34,175	131	3,147	5,421	10,713	8,153	4,499	1,721	350	37	3
	1	27,143	1	328	1,579	8,143	8,280	5,797	2,496	482	35	2
	2	17,037	0	22	288	3,576	5,805	4,720	2,180	414	31	1
	3	8,139	0	1	25	1,102	2,680	2,624	1,384	298	24	1
	4 or more	6,104	0	3	2	338	1,517	2,092	1,645	463	42	2
	Unknown	18	0	0	4	2	5	0	5	1	1	0
White non- Hispanic	TOTAL	39,781	20	649	2,046	9,012	12,437	9,933	4,601	987	94	2
	None	16,156	20	605	1,674	4,807	4,818	2,861	1,125	223	23	0
	1	12,175	0	41	323	2,852	3,972	3,226	1,447	289	25	0
	2	6,641	0	2	44	1,037	2,270	2,092	984	195	17	0
	3	2,800	0	1	2	251	943	999	479	114	11	0
	4 or more	1,999	0	0	1	64	432	755	563	165	17	2
	Unknown	10	0	0	2	1	2	0	3	1	1	0
Hispanic or Latino	TOTAL	38,362	87	2,253	4,001	10,979	10,163	6,886	3,292	664	36	1
	None	12,594	86	2,000	2,817	4,289	2,123	905	309	61	3	1
	1	10,928	1	232	985	3,987	3,254	1,705	645	114	5	0
	2	7,935	0	18	182	1,894	2,752	2,072	860	150	7	0
	3	4,073	0	0	15	601	1,290	1,308	710	143	6	0
	4 or more	2,828	0	3	1	208	742	896	767	196	15	0
	Unknown	4	0	0	1	0	2	0	1	0	0	0
Black or African American	TOTAL	4,378	6	181	416	1,371	1,169	752	396	77	10	0
	None	1,628	6	161	306	587	314	168	70	13	3	0
	1	1,172	0	19	90	458	312	184	95	13	1	0
	2	778	0	1	17	209	272	161	96	20	2	0
	3	423	0	0	3	93	158	110	45	13	1	0
	4 or more	377	0	0	0	24	113	129	90	18	3	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0
American Indian or Alaska Native	TOTAL	6,170	17	394	759	2,035	1,494	898	454	113	5	1
	None	2,061	17	358	540	748	264	90	36	8	0	0
	1	1,548	0	35	170	705	401	175	51	11	0	0
	2	1,139	0	1	43	395	377	211	100	11	1	0
	3	654	0	0	5	146	245	149	89	17	2	1
	4 or more	766	0	0	0	40	207	273	178	66	2	0
	Unknown	2	0	0	1	1	0	0	0	0	0	0
Asian or Pacific Islander	TOTAL	3,396	2	18	68	383	1,037	1,157	597	126	8	0
	None	1,536	2	18	59	239	583	438	161	32	4	0
	1	1,181	0	0	8	108	296	484	237	47	1	0
	2	453	0	0	1	30	111	161	119	30	1	0
	3	138	0	0	0	5	29	47	50	6	1	0
	4 or more	88	0	0	0	1	18	27	30	11	1	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0
Unknown	TOTAL	529	0	6	29	94	140	106	91	41	17	5
	None	200	0	5	25	43	51	37	20	13	4	2
	1	139	0	1	3	33	45	23	21	8	3	2
	2	91	0	0	1	11	23	23	21	8	3	1
	3	51	0	0	0	6	15	11	11	5	3	0
	4 or more	46	0	0	0	1	5	12	17	7	4	0
	Unknown	2	0	0	0	0	1	0	1	0	0	0

Note: Totals include records with unknown number of previous live births.

TABLE 1B-26
 SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
 ARIZONA, 2009

	TOTAL	Urban**	Rural	Mother's race/ethnicity					Other/ Unknown
				White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	
TOTAL	92,616	79,046	13,570	39,781	38,362	4,378	6,170	3,396	529
Mother's age group									
<15	132	110	22	20	87	6	17	2	0
15-17	3,501	2,901	600	649	2,253	181	394	18	6
18-19	7,319	5,856	1,463	2,046	4,001	416	759	68	29
20-24	23,874	19,715	4,159	9,012	10,979	1,371	2,035	383	94
25-29	26,440	22,733	3,707	12,437	10,163	1,169	1,494	1,037	140
30-34	19,732	17,471	2,261	9,933	6,886	752	898	1,157	106
35-39	9,431	8,386	1,045	4,601	3,292	396	454	597	91
40-44	2,008	1,721	287	987	664	77	113	126	41
45 +	170	146	24	94	36	10	5	8	17
Unknown	9	7	2	2	1	0	1	0	5
Payee for birth									
AHCCCS	49,538	41,882	7,656	13,662	28,338	2,830	3,549	894	265
IHS	1,683	389	1,294	35	27	6	1,599	8	8
Private insurance	37,941	34,250	3,691	24,365	8,723	1,455	770	2,402	226
Self	2,467	2,058	409	1,151	1,112	64	49	78	13
Unknown	987	467	520	568	162	23	203	14	17
Mother's education									
<8	3,534	3,308	226	150	3,159	127	32	56	10
8	2,128	1,814	314	333	1,570	64	138	19	4
9-11	16,493	13,888	2,605	3,185	10,834	656	1,628	140	50
12	28,319	23,087	5,232	10,595	12,999	1,569	2,437	632	87
13-16	32,955	28,586	4,369	19,581	8,267	1,612	1,718	1,630	147
17 +	8,507	7,838	669	5,689	1,377	323	186	899	33
Unknown	680	525	155	248	156	27	31	20	198
Marital status									
Married	49,748	43,218	6,530	27,532	16,056	1,596	1,360	2,844	360
Unmarried	41,856	34,970	6,886	11,825	21,840	2,746	4,746	536	163
Other/Unknown*	1,012	858	154	424	466	36	64	16	6
Weight gain									
None	1,806	1,609	197	550	917	134	154	37	14
1-15 pounds	11,150	9,095	2,055	3,558	5,455	632	1,138	298	69
16-20 pounds	11,936	10,376	1,560	3,711	6,336	591	844	405	49
21-24 pounds	6,746	5,807	939	2,739	2,888	287	478	312	42
25-30 pounds	22,362	19,060	3,302	9,604	9,284	938	1,480	938	118
31+ pounds	38,141	32,812	5,329	19,444	13,336	1,770	1,983	1,388	220
Unknown	475	287	188	175	146	26	93	18	17
Substance use									
Drinker, nonsmoker	277	224	53	155	54	3	59	4	2
Smoker, nondrinker	4,262	3,230	1,032	3,085	648	285	130	56	58
Smoker and drinker	199	155	44	103	38	22	29	2	5
Nonsmoker and nondrinker	87,878	75,437	12,441	36,438	37,622	4,068	5,952	3,334	464

TABLE 1B-26
 SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
 ARIZONA, 2009

	TOTAL	Urban**	Rural	Mother's race/ethnicity					Other/ Unknown	
				White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander		
Length of gestation										
<37 weeks	9,295	7,979	1,316	3,925	3,736	632	593	341	68	
37-41 weeks	82,978	70,816	12,162	35,729	34,509	3,721	5,518	3,045	456	
42+ weeks	317	237	80	121	106	24	54	10	2	
Unknown	26	14	12	6	11	1	5	0	3	
Weight at birth										
<1,000 grams	523	463	60	188	213	61	32	26	3	
1,000-1,499	577	489	88	235	223	63	25	26	5	
1,500-2,499	5,473	4,596	877	2,304	2,110	435	339	247	38	
2,500-3,999	79,423	67,671	11,752	33,980	33,186	3,642	5,220	2,951	444	
4000+ grams	6,601	5,812	789	3,069	2,624	172	554	145	37	
Unknown	19	15	4	5	6	5	0	1	2	
Prenatal care										
No care	1,702	1,496	206	298	1,130	72	129	43	30	
1st trimester	74,331	64,387	9,944	34,949	28,425	3,516	4,073	2,991	377	
2nd trimester	13,298	10,659	2,639	3,705	7,071	654	1,496	293	79	
3rd trimester	3,133	2,383	750	775	1,673	126	458	65	36	
Unknown	152	121	31	54	63	10	14	4	7	
Prenatal visits										
No visits	1,702	1,496	206	298	1,130	72	129	43	30	
1-4 visits	3,213	2,379	834	698	1,724	158	531	73	29	
5-8 visits	14,484	11,701	2,783	4,367	7,272	694	1,689	368	94	
9-12 visits	45,278	39,179	6,099	20,430	18,060	2,150	2,693	1,697	248	
13+ visits	27,754	24,154	3,600	13,922	10,107	1,293	1,104	1,209	119	
Unknown	185	137	48	66	69	11	24	6	9	
Newborn intensive care										
Yes	5,773	5,210	563	2,588	2,227	403	293	211	51	
No	86,764	73,824	12,940	37,140	36,127	3,975	5,867	3,184	471	
Unknown	79	12	67	53	8	0	10	1	7	
Obstetric procedures										
Amniocentesis	511	442	69	337	85	17	50	16	6	
Electro. Fetal Monit.	86,576	76,786	9,790	36,792	36,360	4,184	5,507	3,267	466	
Induction of labor	20,329	17,484	2,845	10,663	6,980	896	1,071	637	82	
Stimulation of labor	14,508	12,896	1,612	6,372	5,825	724	940	570	77	
Tocolysis	425	304	121	258	97	18	35	15	2	
Ultrasound	68,778	58,684	10,094	30,097	28,293	3,253	4,253	2,497	385	
Other	4,079	3,090	989	1,668	1,833	179	249	115	35	
Method of delivery										
Vaginal	66,172	56,144	10,028	27,738	28,153	2,998	4,635	2,276	372	
Vaginal after C-Section	754	653	101	299	306	29	103	12	5	
Primary C-Section	13,841	12,012	1,829	6,692	4,861	759	754	684	91	
Repeat C-Section	11,847	10,235	1,612	5,052	5,042	592	678	424	59	
Forceps	396	302	94	185	143	16	31	17	4	
Vacuum	2,744	2,208	536	1,280	1,054	132	111	152	15	

TABLE 1B-26
 SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
 ARIZONA, 2009

	TOTAL	Urban**	Rural	Mother's race/ethnicity					Other/ Unknown	
				White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander		
Births with medical risk factors										
Total	30,992	26,626	4,366	13,502	11,945	1,702	2,583	1,070	190	
Anemia	3,310	3,053	257	1,482	1,003	261	443	102	19	
Cardiac disease	176	151	25	110	50	9	3	2	2	
Lung disease	693	602	91	386	162	79	47	15	4	
Diabetes	3,584	3,136	448	1,192	1,531	129	507	208	17	
Genital herpes	918	852	66	578	223	52	40	22	3	
Hydramnios	1,133	1,027	106	493	413	61	113	50	3	
Hemoglobinopathy	10	9	1	6	1	0	1	0	2	
Chronic hypertension	748	609	139	308	239	71	97	29	4	
Pregnancy associated hypertension	3,347	2,934	413	1,690	1,022	190	342	85	18	
Eclampsia	695	595	100	292	259	34	81	28	1	
Previous infant 4000+g	262	214	48	132	61	9	52	5	3	
Previous SGA infant	648	546	102	373	152	35	62	23	3	
Renal disease	79	34	45	46	17	1	12	2	1	
RH sensitization	139	123	16	123	6	4	5	1	0	
Uterine bleeding	288	234	54	163	80	10	19	13	3	
Incompetent cervix	157	149	8	81	44	18	3	9	2	
Other	21,984	18,810	3,174	9,335	8,966	1,216	1,583	737	147	
Abnormal conditions of the newborn										
Total	7,059	5,402	1,657	3,193	2,796	365	424	222	59	
Anemia	32	18	14	17	10	1	3	1	0	
Birth injury	67	34	33	36	16	5	9	1	0	
Fetal Alcohol Syndrome	3	0	3	0	0	0	3	0	0	
Membrane disease	478	430	48	247	169	32	15	11	4	
Meconium aspiration	47	32	15	18	17	1	9	2	0	
Assisted vent <30 min	1,074	860	214	622	344	38	33	25	12	
Assisted vent >30 min	356	284	72	184	117	10	38	6	1	
Newborn seizures	93	71	22	42	33	3	7	5	3	
Other	5,909	4,530	1,379	2,593	2,408	322	350	187	49	
Births with congenital anomalies										
Total	600	471	129	275	223	32	52	12	6	
Anencephalus	5	3	2	2	2	0	1	0	0	
Spina Bifida	10	8	2	4	5	1	0	0	0	
Hydrocephalus	8	7	1	2	6	0	0	0	0	
Microcephalus	3	1	2	2	1	0	0	0	0	
Other CNS Anomaly	16	11	5	6	9	0	1	0	0	
Heart Malformations	60	51	9	30	24	2	2	1	1	
Other Resp./Circulatory	132	89	43	48	59	12	10	2	1	
Rectal Atresia	4	2	2	2	1	0	0	0	1	
Fistula/Esoph. Atresia	5	4	1	2	3	0	0	0	0	

TABLE 1B-26
 SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,
 ARIZONA, 2009

	TOTAL	Urban**	Rural	Mother's race/ethnicity					Other/ Unknown
				White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	
Omphalocele	38	33	5	12	19	4	3	0	0
Other Gastrointestinal	17	14	3	9	5	1	1	0	1
Malformed Genitalia	15	13	2	10	4	0	1	0	0
Renal Agenesis	8	8	0	4	3	0	1	0	0
Other Urogenital	23	20	3	14	5	0	3	1	0
Cleft Lip/Palate	62	51	11	30	20	0	10	2	0
Polydactyly	25	16	9	12	3	3	6	1	0
Club Foot	53	43	10	27	17	2	6	1	0
Diaphragmatic Hernia	4	4	0	3	1	0	0	0	0
Other Musculoskeletal	25	17	8	14	5	0	5	1	0
Down Syndrome	41	36	5	23	12	2	4	0	0
Other Chromosomal	35	29	6	13	18	0	2	2	0
Other	70	58	12	25	26	6	8	2	3
Births with complications of labor	25,707	22,220	3,487	11,274	10,276	1,311	1,641	1,030	175
Febrile	1,471	1,378	93	610	560	50	140	106	5
Meconium	3,675	3,366	309	1,371	1,687	199	233	161	24
Rupture of membrane	1,351	1,164	187	605	433	70	169	68	6
Abruption placenta	391	334	57	159	169	16	31	12	4
Placenta previa	321	291	30	168	102	15	15	20	1
Other bleeding	342	261	81	166	78	11	76	9	2
Seizures	29	26	3	8	14	3	3	1	0
Precipitous labor	854	636	218	329	337	42	114	30	2
Prolonged labor	645	555	90	338	168	26	74	37	2
Dysfunctional labor	1,517	1,269	248	732	472	67	153	86	7
Breech malpresentation	2,668	2,307	361	1,369	913	118	126	119	23
Cephalopelvic disp.	438	351	87	207	144	23	25	34	5
Cord prolapse	97	82	15	47	30	9	6	5	0
Anesthetic Complic.	57	48	9	44	8	0	1	4	0
Fetal distress	4,288	3,899	389	2,186	1,348	286	246	200	22
Other	13,860	11,754	2,106	5,860	6,013	707	706	463	111

* "Refused", "Yes, divorced", "Unknown".

** Urban = Maricopa, Pima, Pinal and Yuma counties. The remaining counties comprise Arizona's rural areas. See **Technical Notes** for mor information.

**TABLE 1B-27
CHANGES FROM 1999 TO 2009 IN SELECTED CHARACTERISTICS OF NEWBORNS AND ARIZONA WOMEN GIVING BIRTH
WHICH DIFFER BY PAYEE FOR THE DELIVERY**

Characteristics ¹	AHCCCS ²			Indian Health Service			Private Health Insurance			Self		
	1999	2009	% Change	1999	2009	% Change	1999	2009	% Change	1999	2009	% Change
Number of births	33,406	49,538	48.3	1,565	1,683	7.5	40,459	37,941	-6.2	3,292	2,467	-25.1
Per 100 births:												
Teenage mother³	20.2	18.6	-7.9	17.1	18.4	7.6	5.0	3.1	-38.0	13.7	10.1	-26.3
Unwed mother	62.9	66.1	5.1	68.0	78.9	16.0	16.9	17.3	2.4	45.3	35.8	-21.0
Early prenatal care⁴	61.0	72.5	18.9	62.4	60.1	-3.7	87.9	92.6	5.3	54.5	66.6	22.2
0-4 prenatal visits	10.3	7.3	-29.1	15.0	13.2	-12.0	2.0	1.3	-35.0	22.4	18.7	-16.5
Births with risk factors reported	24.0	33.8	40.8	41.4	40.6	-1.9	25.6	33.8	32.0	23.7	23.3	-1.7
Births with complications reported	27.9	27.0	-3.2	35.7	29.2	-18.2	29.1	29.2	0.3	28.8	22.4	-22.2
Primary and repeat C-Section	16.1	25.3	57.1	14.1	19.8	40.4	20.3	32.0	57.6	12.3	18.4	49.6
Births with abnormal conditions reported	10.0	7.9	-21.0	9.6	6.7	-30.2	10.2	7.3	-28.4	10.4	7.1	-31.7
LBW rate	7.5	7.3	-2.7	5.9	4.5	-23.7	6.4	7.0	9.4	8.1	6.4	-21.0
Newborn intensive care	6.8	6.1	-10.3	3.3	2.9	-12.1	6.3	6.6	4.8	8.4	6.4	-23.8
Births with congenital anomalies reported	1.1	0.7	-36.4	2.4	1.0	-58.3	1.1	0.6	-45.5	1.3	0.4	-69.2
Preterm birth < 37 weeks	10.0	10.2	2.0	7.3	7.4	1.4	9.4	9.9	5.3	10.8	8.5	-21.3

¹Per 100 live births.

²The Arizona Health Care Cost Containment System is the State's Medicaid program.

³Less than 20 years old.

⁴Entered care in first trimester of pregnancy.

**TABLE 1B-28
PAYEE FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2009**

	TOTAL	Payee for birth				
		AHCCCS	IHS	Private Insurance	Self	Unknown
TOTAL	92,616	49,538	1,683	37,941	2,467	987
Mother's age group						
<15	132	105	5	16	4	2
15-17	3,501	2,909	112	351	98	31
18-19	7,319	6,110	193	797	148	71
20-24	23,874	16,554	545	5,989	501	285
25-29	26,440	12,425	409	12,627	697	282
30-34	19,732	7,214	246	11,443	653	176
35-39	9,431	3,427	125	5,502	278	99
40-44	2,008	743	47	1,101	80	37
45+	170	45	1	112	8	4
Unknown	9	6	0	3	0	0
Mother's race/ethnicity						
White non-Hispanic	39,781	13,662	35	24,365	1,151	568
Hispanic or Latino	38,362	28,338	27	8,723	1,112	162
Black or African American	4,378	2,830	6	1,455	64	23
American Indian or Alaska Native	6,170	3,549	1,599	770	49	203
Asian or Pacific Islander	3,396	894	8	2,402	78	14
Other/Unknown	529	625	8	226	13	17
Mother's education						
<8	3,534	3,253	14	150	101	16
8	2,128	1,815	38	136	79	60
9-11	16,493	14,181	457	1,318	391	146
12	28,319	18,442	655	8,151	693	378
13-16	32,955	10,660	460	20,637	910	288
17+	8,507	831	48	7,294	271	63
Unknown	680	356	11	255	22	36
Marital status						
Married	49,748	16,056	340	31,186	1,556	610
Unmarried	41,856	32,726	1,328	6,548	883	371
Other/Unknown*	1,012	756	15	207	28	6
Weight gain						
None	1,806	1,201	44	476	73	12
1-15 pounds	11,150	7,018	390	3,319	274	149
16-20 pounds	11,936	7,429	256	3,762	378	111
21-24 pounds	6,746	3,448	149	2,921	161	67
25-30 pounds	22,362	11,584	342	9,619	590	227
31+ pounds	38,141	18,657	473	17,741	954	316
Unknown	475	201	29	103	37	105
Substance use						
Drinker, nonsmoker	277	112	24	134	6	1
Smoker, nondrinker	4,262	3,270	25	819	98	50
Smoker and drinker	199	151	13	25	7	3
Nonsmoker and nondrinker	87,878	46,005	1,621	36,963	2,356	933

**TABLE 1B-28
PAYEE FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2009**

	TOTAL	Payee for birth					
		AHCCCS	IHS	Private Insurance	Self	Unknown	
Length of gestation	<37 weeks	9,295	5,052	125	3,772	210	136
	37-41 weeks	82,978	44,280	1,543	34,083	2,235	837
	42+ weeks	317	196	14	84	17	6
	Unknown	26	10	1	2	5	8
Weight at birth	<1,000 grams	523	284	2	219	12	6
	1,000-1,499	577	320	7	223	16	11
	1,500-2,499	5,473	3,007	67	2,193	131	75
	2,500-3,999	79,423	42,614	1,466	32,407	2,097	839
	4000+ grams	6,601	3,304	141	2,897	208	51
	Unknown	19	9	0	2	3	5
Prenatal care	No care	1,702	1,239	33	109	277	44
	1st trimester	74,331	35,931	1,011	35,136	1,642	611
	2nd trimester	13,298	10,053	493	2,227	372	153
	3rd trimester	3,133	2,223	143	443	163	161
	Unknown	152	92	3	26	13	18
Prenatal visits	No visits	1,702	1,239	33	109	277	44
	1-4 visits	3,213	2,401	189	379	185	59
	5-8 visits	14,484	9,990	549	3,353	412	180
	9-12 visits	45,278	23,345	657	19,838	951	487
	13+ visits	27,754	12,457	251	14,232	626	188
	Unknown	185	106	4	30	16	29
	Yes	5,773	3,042	49	2,492	157	33
Newborn intensive care	No	86,764	46,490	1,630	35,428	2,301	915
	Unknown	79	6	4	21	9	39
	Amniocentesis	511	154	14	326	9	8
Obstetric procedures	Electro. Fetal Monit	86,576	47,045	1,523	35,822	1,783	403
	Induction of labor	20,329	9,933	321	9,592	346	137
	Stimulation of labor	14,508	7,661	257	6,195	297	98
	Tocolysis	425	182	17	199	14	13
	Ultrasound	68,778	36,724	996	28,990	1,839	229
	Other	4,079	2,402	77	1,519	69	12
	Vaginal	66,172	36,594	1,300	25,517	1,993	768
Method of delivery	Vaginal after C-Section	754	393	49	288	20	4
	Primary C-Section	13,841	6,249	183	7,031	248	130
	Repeat C-Section	11,847	6,302	151	5,105	206	83
	Forceps	396	212	13	162	9	0
	Vacuum	2,744	1,413	33	1,231	56	11

**TABLE 1B-28
PAYEE FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2009**

	TOTAL	Payee for birth				
		AHCCCS	IHS	Private Insurance	Self	Unknown
Births with medical risk factors						
Total	30,992	16,741	683	12,807	576	185
Anemia	3,310	1,671	101	1,469	49	20
Cardiac disease	176	82	1	87	3	3
Lung disease	693	371	6	309	4	3
Diabetes	3,584	1,805	140	1,555	53	31
Genital herpes	918	368	6	526	14	4
Hydramnios	1,133	550	42	519	13	9
Hemoglobinopathy	10	5	0	5	0	0
Chronic hypertension	748	351	29	347	8	13
Pregnancy associated hypertension	3,347	1,462	120	1,700	42	23
Eclampsia	695	366	21	291	12	5
Previous infant 4000+g	262	108	23	119	10	2
Previous SGA infant	648	260	24	329	18	17
Renal disease	79	46	6	24	3	0
RH sensitization	139	33	4	97	1	4
Uterine bleeding	288	122	11	144	7	4
Incompetent cervix	157	47	2	106	2	0
Other	21,984	12,587	372	8,522	413	90
Total	7,059	3,900	112	2,774	174	99
Abnormal conditions of the newborn						
Anemia	32	19	2	9	0	2
Birth injury	67	39	4	21	0	3
Fetal Alcohol Syndrome	3	2	1	0	0	0
Membrane disease	478	221	2	247	4	4
Meconium aspiration	47	26	1	19	0	1
Assisted vent < 30 min	1,074	487	17	533	30	7
Assisted vent > 30 min	356	194	9	125	14	14
Newborn seizures	93	57	1	27	3	5
Other	5,909	3,337	90	2,255	151	76
Total	600	358	16	212	9	5
Births with congenital anomalies						
Anencephalus	5	5	0	0	0	0
Spina Bifida	10	4	0	5	0	1
Hydrocephalus	8	3	0	5	0	0
Microcephalus	3	3	0	0	0	0
Other CNS Anomaly	16	9	1	4	2	0
Heart Malformations	60	40	1	18	1	0
Other Resp./Circulatory	132	91	0	38	3	0
Rectal Atresia	4	4	0	0	0	0

**TABLE 1B-28
PAYEE FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2009**

	TOTAL	Payee for birth				
		AHCCCS	IHS	Private Insurance	Self	Unknown
Fistula/Esoph. Atresia	5	4	0	1	0	0
Omphalocele	38	30	2	6	0	0
Other Gastrointestinal	17	9	0	8	0	0
Malformed Genitalia	15	6	0	8	0	1
Renal Agenesis	8	4	1	3	0	0
Other Urogenital	23	12	0	11	0	0
Cleft Lip/Palate	62	35	3	20	3	1
Polydactyly	25	12	3	10	0	0
Club Foot	53	25	4	24	0	0
Diaphragmatic Hernia	4	2	0	2	0	0
Other Muscoskeletal	25	19	2	4	0	0
Down Syndrome	41	18	0	22	0	1
Other Chromosomal	35	20	2	12	0	1
Other	70	42	2	25	1	0
Total	25,707	13,382	491	11,066	552	216
Births with complications of labor and/or delivery						
Febrile	1,471	709	48	686	20	8
Meconium	3,675	2,018	64	1,462	99	32
Rupture of membrane	1,351	625	62	614	33	17
Abruption placenta	391	230	15	133	10	3
Placenta previa	321	117	3	194	6	1
Other bleeding	342	136	39	154	8	5
Seizures	29	17	1	10	1	0
Precipitous labor	854	495	41	274	37	7
Prolonged labor	645	249	26	345	13	12
Dysfunctional labor	1,517	730	56	708	17	6
Breech malpresentation	2,668	1,189	49	1,347	57	26
Cephalopelvic disp.	438	194	10	216	5	13
Cord prolapse	97	44	1	42	6	4
Anesthetic Complic.	57	12	0	42	1	2
Fetal distress	4,288	1,869	71	2,267	68	13
Other	13,860	7,852	182	5,439	275	112

* "Refused", "Yes, divorced", "Unknown"

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

**TABLE 1B-29
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY AND PARTY PAYING FOR THE DELIVERY,
ARIZONA, 2009**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un- known
All race/ ethnic groups	AHCCCS	49,538	105	2,909	6,110	16,554	12,425	7,214	3,427	743	45	6
	IHS	1,683	5	112	193	545	409	246	125	47	1	0
	Private insurance	37,941	16	351	797	5,989	12,627	11,443	5,502	1,101	112	3
	Self	2,467	4	98	148	501	697	653	278	80	8	0
	Unknown	987	2	31	71	285	282	176	99	37	4	0
	TOTAL	92,616	132	3,501	7,319	23,874	26,440	19,732	9,431	2,008	170	9
White non- Hispanic	AHCCCS	13,662	15	498	1,611	5,110	3,629	1,867	738	187	7	0
	IHS	35	0	1	4	7	14	5	4	0	0	0
	Private insurance	24,365	4	121	375	3,555	8,265	7,596	3,640	729	78	2
	Self	1,151	0	20	32	188	340	358	161	46	6	0
	Unknown	568	1	9	24	152	189	107	58	25	3	0
	TOTAL	39,781	20	649	2,046	9,012	12,437	9,933	4,601	987	94	2
Hispanic or Latino	AHCCCS	28,338	72	1,999	3,559	8,857	6,949	4,307	2,147	429	19	0
	IHS	27	1	3	4	7	6	5	0	1	0	0
	Private insurance	8,723	11	170	320	1,781	2,874	2,304	1,042	204	16	1
	Self	1,112	3	71	105	272	297	248	88	27	1	0
	Unknown	162	0	10	13	62	37	22	15	3	0	0
	TOTAL	38,362	87	2,253	4,001	10,979	10,163	6,886	3,292	664	36	1
Black or African American	AHCCCS	2,830	5	148	361	1,059	702	364	156	32	3	0
	IHS	6	0	0	2	1	2	0	1	0	0	0
	Private insurance	1,455	1	31	46	287	446	369	226	43	6	0
	Self	64	0	1	4	17	14	14	12	2	0	0
	Unknown	23	0	1	3	7	5	5	1	0	1	0
	TOTAL	4,378	6	181	416	1,371	1,169	752	396	77	10	0
American Indian or Alaska Native	AHCCCS	3,549	12	249	506	1,268	812	445	210	43	3	1
	IHS	1,599	4	108	182	529	382	229	119	45	1	0
	Private insurance	770	0	22	39	165	242	181	104	17	0	0
	Self	49	0	4	5	16	13	8	2	0	1	0
	Unknown	203	1	11	27	57	45	35	19	8	0	0
	TOTAL	6,170	17	394	759	2,035	1,494	898	454	113	5	1
Asian or Pacific Islander	AHCCCS	894	1	11	52	202	272	187	136	32	1	0
	IHS	8	0	0	1	0	1	6	0	0	0	0
	Private insurance	2,402	0	5	13	170	729	940	445	93	7	0
	Self	78	1	2	1	7	32	21	13	1	0	0
	Unknown	14	0	0	1	4	3	3	3	0	0	0
	TOTAL	3,396	2	18	68	383	1,037	1,157	597	126	8	0
Other/ Unknown	AHCCCS	265	0	4	21	58	61	44	40	20	12	5
	IHS	8	0	0	0	1	4	1	1	1	0	0
	Private insurance	226	0	2	4	31	71	53	45	15	5	0
	Self	13	0	0	1	1	1	4	2	4	0	0
	Unknown	17	0	0	3	3	3	4	3	1	0	0
	TOTAL	529	0	6	29	94	140	106	91	41	17	5

**TABLE 1B-30
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY AND TRIMESTER
OF PREGNANCY PRENATAL CARE BEGAN, ARIZONA, 2009**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known
All race/ ethnic groups	No care	1,702	7	120	222	518	397	249	157	28	3	1
	1st trimester	74,331	74	2,229	5,134	18,162	22,008	16,934	8,004	1,634	145	7
	2nd trimester	13,298	36	925	1,582	4,203	3,212	2,028	1,014	280	17	1
	3rd trimester	3,133	15	220	367	943	776	502	241	64	5	0
	Unknown	152	0	7	14	48	47	19	15	2	0	0
	TOTAL	92,616	132	3,501	7,319	23,874	26,440	19,732	9,431	2,008	170	9
White non- Hispanic	No care	298	1	10	38	80	80	49	36	4	0	0
	1st trimester	34,949	12	459	1,560	7,458	11,153	9,118	4,226	872	89	2
	2nd trimester	3,705	6	148	377	1,217	977	616	269	91	4	0
	3rd trimester	775	1	31	68	243	207	139	66	19	1	0
	Unknown	54	0	1	3	14	20	11	4	1	0	0
	TOTAL	39,781	20	649	2,046	9,012	12,437	9,933	4,601	987	94	2
Hispanic or Latino	No care	1,130	3	91	163	352	250	166	91	13	1	0
	1st trimester	28,425	52	1,424	2,720	7,935	7,799	5,447	2,516	503	28	1
	2nd trimester	7,071	23	586	894	2,175	1,685	1,029	556	117	6	0
	3rd trimester	1,673	9	146	216	496	414	239	121	31	1	0
	Unknown	63	0	6	8	21	15	5	8	0	0	0
	TOTAL	38,362	87	2,253	4,001	10,979	10,163	6,886	3,292	664	36	1
Black or African American	No care	72	1	6	7	25	15	10	8	0	0	0
	1st trimester	3,516	2	115	317	1,074	974	628	333	66	7	0
	2nd trimester	654	2	53	76	229	144	92	47	9	2	0
	3rd trimester	126	1	7	15	40	31	22	7	2	1	0
	Unknown	10	0	0	1	3	5	0	1	0	0	0
	TOTAL	4,378	6	181	416	1,371	1,169	752	396	77	10	0
American Indian or Alaska Native	No care	129	1	12	13	46	30	14	9	4	0	0
	1st trimester	4,073	8	214	472	1,326	1,043	613	324	68	5	0
	2nd trimester	1,496	5	134	209	508	312	198	93	36	0	1
	3rd trimester	458	3	34	64	145	106	73	28	5	0	0
	Unknown	14	0	0	1	10	3	0	0	0	0	0
	TOTAL	6,170	17	394	759	2,035	1,494	898	454	113	5	1
Asian or Pacific Islander	No care	43	1	1	1	12	16	4	5	3	0	0
	1st trimester	2,991	0	12	44	293	925	1,050	555	104	8	0
	2nd trimester	293	0	3	18	62	82	82	30	16	0	0
	3rd trimester	65	1	2	4	16	13	20	7	2	0	0
	Unknown	4	0	0	1	0	1	1	0	1	0	0
	TOTAL	3,396	2	18	68	383	1,037	1,157	597	126	8	0
Other/ Unknown	No care	30	0	0	0	3	6	6	8	4	2	1
	1st trimester	377	0	5	21	76	114	78	50	21	8	4
	2nd trimester	79	0	1	8	12	12	11	19	11	5	0
	3rd trimester	36	0	0	0	3	5	9	12	5	2	0
	Unknown	7	0	0	0	0	3	2	2	0	0	0
	TOTAL	529	0	6	29	94	140	106	91	41	17	5

**TABLE 1B-31
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY AND NUMBER OF PRENATAL VISITS,
ARIZONA, 2009**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known
All race/ ethnic groups	No visits	1,702	7	120	222	518	397	249	157	28	3	1
	1-4 visits	3,213	14	217	373	999	784	502	249	70	4	1
	5-8 visits	14,484	34	872	1,552	4,389	3,737	2,406	1,202	263	28	1
	9-12 visits	45,278	57	1,554	3,525	11,634	13,142	9,848	4,504	949	62	3
	13+ visits	27,754	20	730	1,630	6,277	8,325	6,699	3,302	695	73	3
	Unknown	185	0	8	17	57	55	28	17	3	0	0
	TOTAL	92,616	132	3,501	7,319	23,874	26,440	19,732	9,431	2,008	170	9
White non- Hispanic	No visits	298	1	10	38	80	80	49	36	4	0	0
	1-4 visits	698	0	26	65	236	170	124	50	26	1	0
	5-8 visits	4,367	4	128	358	1,277	1,260	848	392	91	9	0
	9-12 visits	20,430	11	302	1,030	4,567	6,500	5,179	2,326	477	37	1
	13+ visits	13,922	4	182	551	2,837	4,400	3,720	1,792	388	47	1
	Unknown	66	0	1	4	15	27	13	5	1	0	0
	TOTAL	39,781	20	649	2,046	9,012	12,437	9,933	4,601	987	94	2
Hispanic or Latino	No visits	1,130	3	91	163	352	250	166	91	13	1	0
	1-4 visits	1,724	10	140	208	509	433	258	139	27	0	0
	5-8 visits	7,272	25	554	854	2,208	1,823	1,091	600	111	6	0
	9-12 visits	18,060	36	994	1,897	5,289	4,784	3,302	1,442	299	17	0
	13+ visits	10,107	13	468	870	2,595	2,860	2,062	1,012	214	12	1
	Unknown	69	0	6	9	26	13	7	8	0	0	0
	TOTAL	38,362	87	2,253	4,001	10,979	10,163	6,886	3,292	664	36	1
Black or African American	No visits	72	1	6	7	25	15	10	8	0	0	0
	1-4 visits	158	1	10	22	59	36	21	8	0	1	0
	5-8 visits	694	2	44	90	242	151	107	47	7	4	0
	9-12 visits	2,150	2	78	202	670	602	361	193	40	2	0
	13+ visits	1,293	0	43	94	372	360	252	139	30	3	0
	Unknown	11	0	0	1	3	5	1	1	0	0	0
	TOTAL	4,378	6	181	416	1,371	1,169	752	396	77	10	0
American Indian or Alaska Native	No visits	129	1	12	13	46	30	14	9	4	0	0
	1-4 visits	531	3	39	74	176	126	72	30	10	0	1
	5-8 visits	1,689	3	142	226	583	381	226	99	27	2	0
	9-12 visits	2,693	7	168	343	877	657	383	208	48	2	0
	13+ visits	1,104	3	32	101	341	294	201	107	24	1	0
	Unknown	24	0	1	2	12	6	2	1	0	0	0
	TOTAL	6,170	17	394	759	2,035	1,494	898	454	113	5	1
Asian or Pacific Islander	No visits	43	1	1	1	12	16	4	5	3	0	0
	1-4 visits	73	0	2	3	17	15	23	11	2	0	0
	5-8 visits	368	0	4	16	65	102	115	49	17	0	0
	9-12 visits	1,697	1	8	37	180	526	578	298	68	1	0
	13+ visits	1,209	0	3	10	108	377	435	234	35	7	0
	Unknown	6	0	0	1	1	1	2	0	1	0	0
	TOTAL	3,396	2	18	68	383	1,037	1,157	597	126	8	0
Other/ Unknown	No visits	30	0	0	0	3	6	6	8	4	2	1
	1-4 visits	29	0	0	1	2	4	4	11	5	2	0
	5-8 visits	94	0	0	8	14	20	19	15	10	7	1
	9-12 visits	248	0	4	16	51	73	45	37	17	3	2
	13+ visits	119	0	2	4	24	34	29	18	4	3	1
	Unknown	9	0	0	0	0	3	3	2	1	0	0
	TOTAL	529	0	6	29	94	140	106	91	41	17	5

**TABLE 1B-32
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2009**

	TOTAL	Prenatal care				Visits			
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown
Mother's age group									
TOTAL	92,616	1,702	74,331	13,298	3,133	152	4,915	87,516	185
<15	132	7	74	36	15	0	21	111	0
15-17	3,501	120	2,229	925	220	7	337	3,156	8
18-19	7,319	222	5,134	1,582	367	14	595	6,707	17
20-24	23,874	518	18,162	4,203	943	48	1,517	22,300	57
25-29	26,440	397	22,008	3,212	776	47	1,181	25,204	55
30-34	19,732	249	16,934	2,028	502	19	751	18,953	28
35-39	9,431	157	8,004	1,014	241	15	406	9,008	17
40-44	2,008	28	1,634	280	64	2	98	1,907	3
45+	170	3	145	17	5	0	7	163	0
Unknown	9	1	7	1	0	0	2	7	0
Payee for birth									
AHCCCS	49,538	1,239	35,931	10,053	2,223	92	3,640	45,792	106
IHS	1,683	33	1,011	493	143	3	222	1,457	4
Private insurance	37,941	109	35,136	2,227	443	26	488	37,423	30
Self	2,467	277	1,642	372	163	13	462	1,989	16
Unknown	987	44	611	153	161	18	103	855	29
Mother's education									
<8	3,534	170	2,333	831	191	9	366	3,159	9
8	2,128	126	1,316	512	170	4	308	1,815	5
9-11	16,493	555	11,273	3,706	927	32	1,606	14,847	40
12	28,319	593	22,022	4,626	1,027	51	1,601	26,651	67
13-16	32,955	181	29,032	3,041	662	39	814	32,097	44
17+	8,507	30	7,907	463	102	5	119	8,381	7
Unknown	680	47	448	119	54	12	101	566	13
Marital status									
Married	49,748	412	43,356	4,831	1,090	59	1,377	48,302	69
Unmarried	41,856	1,252	30,238	8,289	1,989	88	3,437	38,308	111
Other/Unknown*	1,012	38	737	178	54	5	101	906	5
Weight gain									
None	1,806	154	1,179	301	115	57	302	1,444	60
1-15 pounds	11,150	292	8,164	2,011	671	12	1,101	10,036	13
16-20 pounds	11,936	314	9,119	2,037	456	10	803	11,119	14
21-24 pounds	6,746	88	5,435	1,024	197	2	295	6,449	2
25-30 pounds	22,362	375	18,314	3,003	650	20	992	21,345	25
31+ pounds	38,141	390	31,888	4,838	1,004	21	1,288	36,821	32
Unknown	475	89	232	84	40	30	134	302	39

**TABLE 1B-32
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2009**

	TOTAL	Prenatal care					Visits				
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown		
Substance use											
Drinker, nonsmoker	277	14	205	41	16	1	31	244	2		
Smoker, nondrinker	4,262	170	2,956	882	237	17	452	3,790	20		
Smoker and drinker	199	19	108	50	20	2	43	154	2		
Nonsmoker and nondrinker	87,878	1,499	71,062	12,325	2,860	132	4,389	83,328	161		
Length of gestation											
<37 weeks	9,295	370	7,502	1,128	264	31	1,022	8,232	41		
37-41 weeks	82,978	1,306	66,609	12,101	2,850	112	3,837	79,008	133		
42+ weeks	317	17	213	67	19	1	46	270	1		
Unknown	26	9	7	2	0	8	10	6	10		
Weight at birth											
<1,000 grams	523	35	439	44	1	4	179	340	4		
1,000-1,499	577	31	486	48	10	2	85	489	3		
1,500-2,499	5,473	170	4,373	755	158	17	470	4,978	25		
2,500-3,999	79,423	1,346	63,586	11,618	2,755	118	3,912	75,369	142		
4000+ grams	6,601	117	5,438	830	209	7	258	6,335	8		
Unknown	19	3	9	3	0	4	11	5	3		
Newborn intensive care											
Yes	5,773	237	4,659	700	143	34	594	5,142	37		
No	86,764	1,465	69,623	12,578	2,984	114	4,315	82,305	144		
Unknown	79	0	49	20	6	4	6	69	4		
Obstetric procedures											
Amniocentesis	511	6	462	34	9	0	16	494	1		
Electro. Fetal Monit.	86,576	1,548	69,821	12,314	2,772	121	4,396	82,044	136		
Induction of labor	20,329	124	16,934	2,694	560	17	531	19,780	18		
Stimulation of labor	14,508	250	11,795	2,043	404	16	668	13,823	17		
Tocolysis	425	5	367	46	7	0	16	409	0		
Ultrasound	68,778	1,061	55,315	9,980	2,311	111	3,479	65,176	123		
Other	4,079	85	3,074	763	156	1	306	3,771	2		
Method of delivery											
Vaginal	66,172	1,351	52,384	9,968	2,360	109	3,686	62,352	134		
Vaginal after C-Section	754	17	577	115	43	2	63	688	3		
Primary C-Section	13,841	171	11,667	1,632	346	25	563	13,250	28		
Repeat C-Section	11,847	163	9,703	1,583	384	14	603	11,226	18		
Forceps	396	2	321	61	11	1	11	384	1		
Vacuum	2,744	33	2,198	429	82	2	125	2,614	5		

**TABLE 1B-32
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2009**

	TOTAL	Prenatal care				Visits			
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown
Births with medical risk factors									
Total	30,992	912	23,645	4,862	1,510	63	2,573	28,349	70
Anemia	3,310	75	2,561	537	136	1	218	3,090	2
Cardiac disease	176	3	150	20	3	0	7	169	0
Lung disease	693	12	592	73	16	0	31	662	0
Diabetes	3,584	21	2,985	469	105	4	107	3,474	3
Genital herpes	918	2	803	91	22	0	27	891	0
Hydramnios	1,133	20	901	175	35	2	59	1,072	2
Hemoglobinopathy	10	0	9	1	0	0	0	10	0
Chronic hypertension	748	10	630	84	23	1	35	711	2
Pregnancy associated hypertension	3,347	44	2,826	386	82	9	143	3,193	11
Eclampsia	695	9	534	118	33	1	49	643	3
Previous infant 4000+g	262	2	211	39	9	1	13	248	1
Previous SGA infant	648	8	535	76	28	1	31	616	1
Renal disease	79	0	63	12	4	0	4	75	0
RH sensitization	139	1	131	6	1	0	1	138	0
Uterine bleeding	288	5	253	26	4	0	18	270	0
Incompetent cervix	157	1	142	9	4	1	6	150	1
Other	21,984	846	16,055	3,728	1,298	57	2,289	19,634	61
Abnormal conditions of the newborn									
Total	7,059	234	5,330	1,172	294	29	678	6,344	37
Anemia	32	0	22	8	0	2	2	27	3
Birth injury	67	0	54	11	2	0	1	66	0
Fetal Alcohol Syndrome	3	0	3	0	0	0	0	3	0
Membrane disease	478	13	413	43	5	4	38	435	5
Meconium aspiration	47	0	36	9	2	0	1	46	0
Assisted vent <30 min	1,074	24	784	213	49	4	81	989	4
Assisted vent >30 min	356	18	252	52	28	6	53	294	9
Newborn seizures	93	3	67	14	8	1	9	81	3
Other	5,909	199	4,454	995	238	23	583	5,300	26
Births with congenital anomalies									
Total	600	12	465	99	20	4	45	551	4
Anencephalus	5	0	4	1	0	0	1	4	0
Spina Bifida	10	0	9	1	0	0	1	9	0
Hydrocephalus	8	0	6	2	0	0	0	8	0
Microcephalus	3	0	2	1	0	0	0	3	0
Other CNS Anomaly	16	2	6	5	3	0	4	12	0

**TABLE 1B-32
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2009**

	TOTAL	Prenatal care				Visits			
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown
Heart Malformations	60	0	54	4	2	0	1	59	0
Other Resp./Circulatory	132	7	94	24	3	4	21	107	4
Rectal Atresia	4	0	2	2	0	0	0	4	0
Fistula/Esoph. Atresia	5	0	4	1	0	0	0	5	0
Omphalocele	38	0	29	7	2	0	1	37	0
Other Gastrointestinal	17	0	14	2	1	0	0	17	0
Malformed Genitalia	15	1	12	2	0	0	1	14	0
Renal Agenesis	8	0	7	0	1	0	2	6	0
Other Urogenital	23	0	18	2	3	0	4	19	0
Cleft Lip/Palate	62	0	50	10	2	0	2	60	0
Polydactyly	25	0	18	5	2	0	1	24	0
Club Foot	53	0	46	6	1	0	0	53	0
Diaphragmatic Hernia	4	0	3	1	0	0	0	4	0
Other Musculoskeletal	25	1	18	5	1	0	2	23	0
Down Syndrome	41	1	35	5	0	0	2	39	0
Other Chromosomal	35	0	22	8	5	0	6	29	0
Other	70	0	54	14	2	0	3	67	0
Births with complications	25,707	585	20,365	3,768	931	58	1,657	23,983	67
Febrile	1,471	16	1,229	179	45	2	46	1,423	2
Meconium	3,675	130	2,859	545	132	9	248	3,418	9
Rupture of membrane	1,351	40	1,090	181	37	3	119	1,228	4
Abruption placenta	391	18	288	67	17	1	59	330	2
Placenta previa	321	3	272	35	9	2	15	304	2
Other bleeding	342	9	287	41	5	0	15	327	0
Seizures	29	1	20	6	2	0	3	26	0
Precipitous labor	854	31	592	176	54	1	104	748	2
Prolonged labor	645	9	554	63	18	1	23	621	1
Dysfunctional labor	1,517	19	1,274	188	35	1	49	1,467	1
Breech malpresentation	2,668	51	2,218	310	81	8	161	2,498	9
Cephalopelvic disp.	438	4	359	65	10	0	14	424	0
Cord prolapse	97	3	81	11	2	0	12	85	0
Anesthetic complications	57	1	49	5	2	0	1	56	0
Fetal distress	4,288	93	3,654	438	98	5	201	4,081	6
Other	13,860	321	10,569	2,344	576	50	998	12,807	55

* "Refused", "Yes, divorced", "Unknown"

**TABLE 1B-33
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2009**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
TOTAL	92,616	6,573	86,024	19	9,295	82,978	317	26
Mother's age group								
<15	132	12	120	0	8	123	1	0
15-17	3,501	265	3,236	0	342	3,144	13	2
18-19	7,319	583	6,732	4	690	6,599	26	4
20-24	23,874	1,618	22,253	3	2,270	21,522	76	6
25-29	26,440	1,638	24,795	7	2,442	23,903	88	7
30-34	19,732	1,441	18,288	3	2,037	17,617	74	4
35-39	9,431	791	8,638	2	1,171	8,225	32	3
40-44	2,008	180	1,828	0	276	1,726	6	0
45+	170	44	126	0	58	111	1	0
Unknown	9	1	8	0	1	8	0	0
Payee for birth								
AHCCCS	49,538	3,611	45,918	9	5,052	44,280	196	10
IHS	1,683	76	1,607	0	125	1,543	14	1
Private insurance	37,941	2,635	35,304	2	3,772	34,083	84	2
Self	2,467	159	2,305	3	210	2,235	17	5
Unknown	987	92	890	5	136	837	6	8
Mother's education								
<8	3,534	215	3,318	1	341	3,173	19	1
8	2,128	158	1,969	1	224	1,889	13	2
9-11	16,493	1,190	15,299	4	1,672	14,749	66	6
12	28,319	2,090	26,225	4	2,905	25,316	90	8
13-16	32,955	2,243	30,707	5	3,255	29,594	101	5
17+	8,507	618	7,889	0	804	7,675	28	0
Unknown	680	59	617	4	94	582	0	4
Marital status								
Married	49,748	3,281	46,459	8	4,767	44,824	149	8
Unmarried	41,856	3,185	38,660	11	4,373	37,298	167	18
Other/Unknown*	1,012	107	905	0	155	856	1	0
None	1,806	244	1,561	1	300	1,494	8	4
1-15 pounds	11,150	1,228	9,914	8	1,596	9,522	32	0
16-20 pounds	11,936	1,045	10,891	0	1,453	10,416	65	2
21-24 pounds	6,746	512	6,233	1	699	6,031	15	1
25-30 pounds	22,362	1,344	21,015	3	1,947	20,341	68	6
31+ pounds	38,141	2,142	35,998	1	3,224	34,787	127	3
Unknown	475	58	412	5	76	387	2	10

**TABLE 1B-33
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2009**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
Substance use								
Drinker, nonsmoker	277	22	255	0	24	251	2	0
Smoker, nondrinker	4,262	476	3,784	2	520	3,729	12	1
Smoker and drinker	199	30	168	1	32	167	0	0
Nonsmoker and nondrinker	87,878	6,045	81,817	16	8,719	78,831	303	25
Prenatal care								
No care	1,702	236	1,463	3	370	1,306	17	9
1st trimester	74,331	5,298	69,024	9	7,502	66,609	213	7
2nd trimester	13,298	847	12,448	3	1,128	12,101	67	2
3rd trimester	3,133	169	2,964	0	264	2,850	19	0
Unknown	152	23	125	4	31	112	1	8
Prenatal visits								
No visits	1,702	236	1,463	3	370	1,306	17	9
1-4 visits	3,213	498	2,707	8	652	2,531	29	1
5-8 visits	14,484	1,592	12,892	0	2,241	12,193	49	1
9-12 visits	45,278	2,525	42,748	5	3,665	41,490	119	4
13+ visits	27,754	1,690	26,064	0	2,326	25,325	102	1
Unknown	185	32	150	3	41	133	1	10
Newborn intensive care								
Yes	5,773	2,682	3,090	1	3,280	2,478	13	2
No	86,764	3,883	82,866	15	6,004	80,436	304	20
Unknown	79	8	68	3	11	64	0	4
Obstetric procedures								
Amniocentesis	511	97	414	0	152	358	1	0
Electro. Fetal Monit.	86,576	6,203	80,363	10	8,831	77,454	285	6
Induction of labor	20,329	998	19,329	2	1,128	19,115	86	0
Stimulation of labor	14,508	790	13,718	0	1,243	13,211	54	0
Tocolysis	425	106	319	0	155	270	0	0
Ultrasound	68,778	5,056	63,714	8	7,000	61,543	231	4
Other	4,079	291	3,788	0	422	3,644	13	0
Method of delivery								
Vaginal	66,172	3,475	62,681	16	5,181	60,744	227	20
Vaginal after C-Section	754	47	707	0	76	673	5	0
Primary C-Section	13,841	2,205	11,635	1	2,646	11,124	69	2
Repeat C-Section	11,847	846	11,001	0	1,392	10,437	16	2
Forceps	396	13	383	0	26	369	1	0
Vacuum	2,744	107	2,637	0	130	2,601	13	0

**TABLE 1B-33
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2009**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
Births with medical risk factors								
Total	30,992	3,473	27,511	8	4,836	26,058	94	4
Anemia	3,310	289	3,021	0	416	2,882	12	0
Cardiac disease	176	25	151	0	28	148	0	0
Lung disease	693	60	632	1	87	605	1	0
Diabetes	3,584	292	3,292	0	600	2,977	7	0
Genital herpes	918	68	850	0	104	812	2	0
Hydranmios	1,133	234	899	0	268	862	3	0
Hemoglobinopathy	10	0	10	0	1	9	0	0
Chronic hypertension	748	141	607	0	193	553	2	0
hypertension	3,347	695	2,651	1	904	2,441	2	0
Eclampsia	695	238	457	0	285	410	0	0
Previous infant 4000 +g	262	8	254	0	14	244	4	0
Previous SGA infant	648	140	508	0	210	438	0	0
Renal disease	79	12	67	0	17	62	0	0
RH sensitization	139	7	132	0	13	126	0	0
Uterine bleeding	288	45	241	2	67	218	3	0
Incompetent cervix	157	50	106	1	70	87	0	0
Other	21,984	2,493	19,484	7	3,410	18,497	73	4
Abnormal conditions of the newborn								
Total	7,059	1,970	5,083	6	2,450	4,585	23	1
Anemia	32	9	23	0	6	26	0	0
Birth injury	67	2	65	0	5	61	1	0
Fetal Alcohol Syndrome	3	0	3	0	0	3	0	0
Membrane disease	478	231	247	0	306	172	0	0
Meconium aspiration	47	3	44	0	2	43	2	0
Assisted vent <30 min	1,074	115	959	0	167	905	2	0
Assisted vent >30 min	356	157	199	0	173	181	2	0
Newborn seizures	93	4	89	0	10	83	0	0
Other	5,909	1,775	4,128	6	2,197	3,693	18	1
Births with congenital anomalies								
Total	600	149	450	1	173	421	6	0
Anencephalus	5	4	1	0	3	0	2	0
Spina Bifida	10	1	9	0	2	8	0	0
Hydrocephalus	8	3	5	0	5	3	0	0
Microcephalus	3	3	0	0	3	0	0	0
Other CNS Anomaly	16	3	13	0	2	12	2	0
Heart Malformations	60	10	50	0	14	46	0	0

**TABLE 1B-33
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2009**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
Other Resp./Circulatory	132	52	79	1	63	69	0	0
Rectal Atresia	4	0	4	0	0	4	0	0
Fistula/Esoph. Atresia	5	2	3	0	3	2	0	0
Omphalocele	38	21	17	0	19	19	0	0
Other Gastrointestinal	17	7	10	0	8	9	0	0
Malformed Genitalia	15	3	12	0	1	14	0	0
Renal Agenesis	8	2	6	0	4	4	0	0
Other Urogenital	23	4	19	0	4	19	0	0
Cleft Lip/Palate	62	10	52	0	11	51	0	0
Polydactyly	25	2	23	0	3	22	0	0
Club Foot	53	4	49	0	7	46	0	0
Diaphragmatic Hernia	4	0	4	0	0	3	1	0
Other Musculoskeletal	25	5	20	0	6	19	0	0
Down Syndrome	41	6	35	0	6	35	0	0
Other Chromosomal	35	13	22	0	11	24	0	0
Other	70	14	56	0	17	51	2	0
Births with complications	25,707	3,049	22,649	9	3,967	21,625	111	4
Febrile	1,471	58	1,413	0	99	1,366	6	0
Meconium	3,675	130	3,545	0	156	3,486	32	1
Rupture of membrane	1,351	506	843	2	761	589	1	0
Abruption placenta	391	149	242	0	182	208	1	0
Placenta previa	321	91	230	0	143	177	1	0
Other bleeding	342	43	299	0	51	290	1	0
Seizures	29	4	25	0	9	20	0	0
Precipitous labor	854	76	778	0	99	752	3	0
Prolonged labor	645	43	602	0	59	577	9	0
Dysfunctional labor	1,517	110	1,407	0	135	1,370	12	0
Breech malpresentation	2,668	676	1,990	2	857	1,807	4	0
Cephalopelvic disp.	438	5	433	0	17	420	1	0
Cord prolapse	97	28	68	1	30	66	1	0
Anesthetic complications	57	5	52	0	8	47	1	1
Fetal distress	4,288	656	3,632	0	717	3,552	19	0
Other	13,860	1,414	12,440	6	1,818	11,986	53	3

* "Refused", "Yes, divorced", "Unknown"

**TABLE 1B-34
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2009**

	TOTAL	Mother's age group										Un- known		
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+				
Mother's race/ethnicity														
	92,616	132	3,501	7,319	23,874	26,440	19,732	9,431	2,008	170	9			
White non-Hispanic	39,781	20	649	2,046	9,012	12,437	9,933	4,601	987	94	2			
Hispanic or Latino	38,362	87	2,253	4,001	10,979	10,163	6,886	3,292	664	36	1			
Black or African American	4,378	6	181	416	1,371	1,169	752	396	77	10	0			
American Indian or Alaska Native	6,170	17	394	759	2,035	1,494	898	454	113	5	1			
Asian or Pacific Islander	3,396	2	18	68	383	1,037	1,157	597	126	8	0			
Unknown	529	0	6	29	94	140	106	91	41	17	5			
Payee for birth														
AHCCCS	49,538	105	2,909	6,110	16,554	12,425	7,214	3,427	743	45	6			
IHS	1,683	5	112	193	545	409	246	125	47	1	0			
Private insurance	37,941	16	351	797	5,989	12,627	11,443	5,502	1,101	112	3			
Self	2,467	4	98	148	501	697	653	278	80	8	0			
Unknown	987	2	31	71	285	282	176	99	37	4	0			
Mother's education														
<8	3,534	31	85	115	619	965	985	595	133	6	0			
8	2,128	61	268	191	539	542	336	157	34	0	0			
9-11	16,493	38	2,639	2,598	4,844	3,426	1,898	872	168	10	0			
12	28,319	0	483	3,646	10,377	7,467	4,098	1,810	411	26	1			
13-16	32,955	0	15	737	7,100	11,390	8,814	3,989	836	73	1			
17+	8,507	0	0	0	283	2,490	3,439	1,883	373	37	2			
Unknown	680	2	11	32	112	160	162	125	53	18	5			
Marital status														
Married	49,748	0	218	1,097	8,811	16,520	14,455	7,054	1,444	144	5			
Unmarried	41,856	132	3,277	6,198	14,816	9,586	5,045	2,240	533	25	4			
Other/Unknown*	1,012	0	6	24	247	334	232	137	31	1	0			
Weight gain														
None	1,806	2	65	137	479	526	376	175	41	5	0			
1-15 pounds	11,150	15	359	763	2,941	3,092	2,360	1,280	317	22	1			
16-20 pounds	11,936	16	421	886	3,107	3,366	2,563	1,260	296	19	2			
21-24 pounds	6,746	5	235	502	1,645	1,915	1,525	738	165	15	1			
25-30 pounds	22,362	23	851	1,731	5,648	6,374	4,836	2,357	500	40	2			
31+ pounds	38,141	69	1,556	3,263	9,923	11,033	7,985	3,570	672	67	3			
Unknown	475	2	14	37	131	134	87	51	17	2	0			
Substance use														
Drinker, nonsmoker	277	1	9	11	53	67	71	57	8	0	0			
Smoker, nondrinker	4,262	2	109	410	1,463	1,192	648	338	89	8	3			
Smoker and drinker	199	0	4	20	53	59	39	17	5	2	0			
Nonsmoker and nondrinker	87,878	129	3,379	6,878	22,305	25,122	18,974	9,019	1,906	160	6			
<37 weeks	9,295	8	342	690	2,270	2,442	2,037	1,171	276	58	1			
37-41 weeks	82,978	123	3,144	6,599	21,522	23,903	17,617	8,225	1,726	111	8			
42+ weeks	317	1	13	26	76	88	74	32	6	1	0			
Unknown	26	0	2	4	6	7	4	3	0	0	0			

**TABLE 1B-34
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2009**

	TOTAL	Mother's age group										Un- known		
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+				
Weight at birth														
<1,000 grams	523	1	22	38	134	121	135	55	14	3	0			
1,000-1,499	577	0	20	53	145	130	125	86	13	4	1			
1,500-2,499	5,473	11	223	492	1,339	1,387	1,181	650	153	37	0			
2,500-3,999	79,423	116	3,085	6,434	20,830	22,765	16,605	7,786	1,672	122	8			
4000+ grams	6,601	4	151	298	1,423	2,030	1,683	852	156	4	0			
Unknown	19	0	0	4	3	7	3	2	0	0	0			
Prenatal care														
No care	1,702	7	120	222	518	397	249	157	28	3	1			
1st trimester	74,331	74	2,229	5,134	18,162	22,008	16,934	8,004	1,634	145	7			
2nd trimester	13,298	36	925	1,582	4,203	3,212	2,028	1,014	280	17	1			
3rd trimester	3,133	15	220	367	943	776	502	241	64	5	0			
Unknown	152	0	7	14	48	47	19	15	2	0	0			
Prenatal visits														
No visits	1,702	7	120	222	518	397	249	157	28	3	1			
1-4 visits	3,213	14	217	373	999	784	502	249	70	4	1			
5-8 visits	14,484	34	872	1,552	4,389	3,737	2,406	1,202	263	28	1			
9-12 visits	45,278	57	1,554	3,525	11,634	13,142	9,848	4,504	949	62	3			
13+ visits	27,754	20	730	1,630	6,277	8,325	6,699	3,302	695	73	3			
Unknown	185	0	8	17	57	55	28	17	3	0	0			
Newborn intensive care														
Yes	5,773	6	196	493	1,411	1,508	1,267	703	152	35	2			
No	86,764	126	3,303	6,820	22,442	24,907	18,450	8,720	1,854	135	7			
Unknown	79	0	2	6	21	25	15	8	2	0	0			
Obstetric procedures														
Amniocentesis	511	0	5	10	75	120	121	134	37	9	0			
Electro. Fetal Monit	86,576	119	3,264	6,830	22,274	24,628	18,563	8,874	1,864	152	8			
Induction of labor	20,329	13	718	1,668	5,375	5,918	4,312	1,902	394	28	1			
Stimulation of labor	14,508	18	642	1,320	3,852	4,053	3,001	1,337	266	18	1			
Tocolysis	425	0	11	29	108	129	87	48	12	1	0			
Ultrasound	68,778	100	2,591	5,412	17,578	19,595	14,766	7,090	1,504	135	7			
Other	4,079	12	186	430	1,159	1,107	769	327	79	9	1			
Vaginal	66,172	114	2,982	5,922	18,071	18,938	13,193	5,745	1,133	69	5			
Vaginal after C-Section	754	0	4	16	137	238	200	127	31	1	0			
Primary C-Section	13,841	18	474	1,120	3,419	3,745	2,959	1,624	425	54	3			
Repeat C-Section	11,847	0	41	261	2,247	3,518	3,380	1,934	419	46	1			
Forceps	396	1	22	38	116	99	70	36	12	2	0			
Vacuum	2,744	4	135	289	701	798	517	231	67	2	0			
Total	30,992	57	1,503	2,599	7,327	8,205	6,468	3,784	954	90	5			
Births with medical risk factors														
Anemia	3,310	6	150	303	946	917	587	320	74	6	1			
Cardiac disease	176	0	3	15	40	60	32	19	7	0	0			
Lung disease	693	1	25	74	197	177	148	58	13	0	0			
Diabetes	3,584	1	22	93	528	953	1,085	709	179	14	0			

**TABLE 1B-34
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2009**

	TOTAL	Mother's age group										Un- known
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+		
Genital herpes	918	0	14	31	175	235	266	153	38	6	0	
Hydramnios	1,133	2	24	99	261	290	268	158	27	3	1	
Hemoglobinopathy	10	0	1	2	1	3	2	0	0	0	0	
Chronic hypertension	748	0	8	29	103	191	217	150	49	1	0	
Pregnancy associated hypertension	3,347	5	102	240	824	960	701	394	106	15	0	
Eclampsia	695	1	37	66	172	166	122	99	28	4	0	
Previous infant 4000+g	262	0	1	1	38	78	76	53	14	1	0	
Previous SGA infant	648	0	1	20	118	199	157	120	31	2	0	
Renal disease	79	0	2	11	19	19	18	9	1	0	0	
RH sensitization	139	0	0	5	21	46	43	17	5	2	0	
Uterine bleeding	288	0	6	22	66	79	72	27	14	2	0	
Incompetent cervix	157	0	3	6	31	35	46	28	8	0	0	
Other	21,984	49	1,323	2,043	5,286	5,608	4,302	2,629	677	63	4	
Total	7,059	11	258	630	1,860	1,974	1,437	724	138	26	1	
Abnormal conditions of the newborn												
Anemia	32	0	2	1	7	7	10	4	1	0	0	
Birth injury	67	0	1	6	14	27	14	3	1	1	0	
Fetal Alcohol Syndrome	3	0	0	0	1	0	1	1	0	0	0	
Membrane disease	478	0	8	30	101	165	106	56	10	2	0	
Meconium aspiration	47	0	2	6	9	16	8	6	0	0	0	
Assisted vent <30 min	1,074	1	29	86	268	323	229	115	18	5	0	
Assisted vent >30 min	356	1	14	17	100	91	70	46	13	4	0	
Newborn seizures	93	0	5	8	27	32	17	3	1	0	0	
Other	5,909	9	225	549	1,581	1,634	1,187	589	115	19	1	
Total	600	0	20	67	159	148	117	63	22	4	0	
Births with congenital anomalies												
Anencephalus	5	0	0	0	3	1	1	0	0	0	0	
Spina Bifida	10	0	0	1	5	3	0	1	0	0	0	
Hydrocephalus	8	0	0	1	1	3	3	0	0	0	0	
Microcephalus	3	0	0	0	0	0	1	2	0	0	0	
Other CNS Anomaly	16	0	1	1	5	5	2	1	1	0	0	
Heart Malformations	60	0	1	6	20	13	12	6	2	0	0	
Other Resp./Circulatory	132	0	3	16	32	34	28	12	7	0	0	
Rectal Atresia	4	0	0	0	1	1	1	1	0	0	0	
Fistula/Esoph. Atresia	5	0	0	2	0	0	2	1	0	0	0	
Omphalocele	38	0	4	13	14	4	1	2	0	0	0	
Other Gastrointestinal	17	0	1	2	5	4	3	1	0	1	0	
Malformed Genitalia	15	0	0	1	5	3	3	3	0	0	0	
Renal Agenesis	8	0	0	0	3	2	2	1	0	0	0	
Other Urogenital	23	0	2	2	2	7	6	4	0	0	0	

**TABLE 1B-34
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2009**

	TOTAL	Mother's age group										Un- known
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+		
Cleft Lip/Palate	62	0	1	3	18	16	16	8	0	0	0	
Polydactyly	25	0	0	2	5	10	4	4	0	0	0	
Club Foot	53	0	4	3	13	14	13	3	2	1	0	
Diaphragmatic Hernia	4	0	0	2	0	1	1	0	0	0	0	
Other Musculoskeletal	25	0	1	1	12	7	3	0	1	0	0	
Down's Syndrome	41	0	0	1	10	4	10	7	8	1	0	
Other Chromosomal	35	0	1	3	11	5	7	5	2	1	0	
Other	70	0	2	10	17	20	16	4	1	0	0	
Total	25,707	35	945	2,206	6,529	7,229	5,353	2,707	640	60	3	
Births with complications of labor												
Febrile	1,471	3	67	195	465	412	225	83	18	3	0	
Meconium	3,675	5	157	323	968	1,021	746	371	80	3	1	
Rupture of membrane	1,351	0	52	122	349	353	294	139	33	9	0	
Abruption placenta	391	2	13	28	95	107	82	52	12	0	0	
Placenta previa	321	0	3	7	34	93	100	61	20	3	0	
Other bleeding	342	0	7	24	71	108	78	44	9	1	0	
Seizures	29	0	2	5	5	11	5	0	1	0	0	
Precipitous labor	854	1	15	50	199	259	205	104	20	1	0	
Prolonged labor	645	0	29	58	157	200	119	72	8	2	0	
Dysfunctional labor	1,517	1	74	165	415	433	267	124	37	1	0	
Breech malpresentation	2,668	3	50	141	584	731	644	391	105	19	0	
Cephalopelvic disp.	438	2	21	38	131	128	72	40	5	1	0	
Cord prolapse	97	0	4	6	17	24	21	14	9	2	0	
Anesthetic complications	57	0	1	0	9	15	18	12	2	0	0	
Fetal distress	4,288	6	151	379	1,020	1,177	958	472	115	10	0	
Other	13,860	19	548	1,272	3,635	3,914	2,764	1,355	320	30	3	

* "Refused", "Yes, divorced", "Unknown"

TABLE 1B-35
 BIRTHS WITH CONGENITAL ANOMALIES MENTIONED ON BIRTH CERTIFICATE BY MOTHER'S RACE/ETHNICITY AND
 CHILD'S GENDER, ARIZONA, 2009

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander			Other or unknown		
	Total*	Male	Female	Total*	Male	Female	Total*	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total	92,616	47,353	45,263	39,781	20,354	19,427	38,362	19,584	18,778	4,378	2,278	2,100	6,170	3,112	3,058	3,396	1,757	1,639	529	268	261
Births with congenital anomalies	600	362	238	275	183	92	223	117	106	32	19	13	52	32	20	12	6	6	6	5	1
Anencephalus	5	4	1	2	2	0	2	1	1	0	0	0	1	1	0	0	0	0	0	0	0
Spina bifida/meningocele	10	3	7	4	1	3	5	2	3	1	0	1	0	0	0	0	0	0	0	0	0
Hydrocephalus	8	5	3	2	2	0	6	3	3	0	0	0	0	0	0	0	0	0	0	0	0
Microcephalus	3	2	1	2	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Other CNS anomaly	16	11	5	6	5	1	9	5	4	0	0	0	1	1	0	0	0	0	0	0	0
Heart malformations	60	32	28	30	18	12	24	11	13	2	0	2	2	2	0	1	1	0	1	0	1
Other respiratory/circulatory anomalies	132	81	51	48	37	11	59	32	27	12	5	7	10	5	5	2	1	1	1	1	0
Rectal atresia/stenosis	4	3	1	2	2	0	1	0	1	0	0	0	0	0	0	0	0	0	1	1	0
Tracheo-esophageal fistula/esophageal atresia	5	3	2	2	1	1	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0
Omphalocele/gastroschisis	38	22	16	12	6	6	19	9	10	4	4	0	3	3	0	0	0	0	0	0	0
Other gastrointestinal anomalies	17	7	10	9	4	5	5	1	4	1	0	1	1	1	0	0	0	0	1	1	0
Malformed genitalia	15	13	2	10	8	2	4	4	0	0	0	1	1	1	0	0	0	0	0	0	0
Renal agenesis	8	6	2	4	4	0	3	1	2	0	0	0	1	1	0	0	0	0	0	0	0
Other urogenital anomalies	23	16	7	14	10	4	5	4	1	0	0	0	3	1	2	1	1	0	0	0	0
Cleft Lip/palate	62	35	27	30	19	11	20	9	11	0	0	0	10	6	4	2	1	1	0	0	0
Polydactyly/syndactyly/ adactyly	25	13	12	12	7	5	3	0	3	3	3	0	6	3	3	1	0	1	0	0	0
Club foot	53	40	13	27	19	8	17	13	4	2	2	0	6	6	0	1	0	1	0	0	0
Diaphragmatic hernia	4	2	2	3	2	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Other musculoskeletal/integumental anomalies	25	9	16	14	5	9	5	1	4	0	0	0	5	2	3	1	1	0	0	0	0
Down syndrome	41	28	13	23	17	6	12	7	5	2	1	1	4	3	1	0	0	0	0	0	0
Other chromosomal anomalies	35	16	19	13	4	9	18	9	9	0	0	0	2	2	0	2	1	1	0	0	0
Other congenital anomalies	70	45	25	25	20	5	26	14	12	6	5	1	8	4	4	2	0	2	3	2	1
Ratio per 100 births**	0.6	0.8	0.5	0.7	0.9	0.5	0.6	0.6	0.6	0.7	0.8	0.6	0.8	1.0	0.7	0.4	0.3	0.4	NA	NA	NA



1C.

FETAL, PERINATAL, AND MATERNAL DEATHS

In Arizona, reportable fetal deaths are those after 20 completed weeks of gestation or, if the gestational period is unknown, the fetal death certificate should be filed 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.

The National Center for Health Statistics (NCHS) in *The Revision of Model State Vital Statistics Act and Regulations** recommended adding clarifiers to the original definition promulgated by the World Health Organization in 1950. In this document, NCHS recommends the following definition: "fetal death" means death prior to the complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy and which is not an

* <http://www.cdc.gov/nchs/data/misc/mvsact92b.pdf>

induced termination of pregnancy. The death is indicated by the fact that after such expulsion or extraction, the fetus does not breathe or show any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. Heartbeats are to be distinguished from transient cardiac contractions; respirations are to be distinguished from fleeting respiratory efforts or gasps.”

The Revision of Model State Vital Statistics Act also recommended that all induced terminations of pregnancy should be excluded from the fetal death file, except when the fetus was known to be dead before the procedure and when the induction was performed for the sole purpose of removing an already-dead fetus. The term “induced termination” implies a pregnancy in progress, not one in which fetal death has already occurred.

The implementation of a new certificate of fetal death in Arizona in the future is likely to improve the integrity of the fetal death database; excluding those induced terminations where the fetus died during the induction procedure (these will continue to be included in the abortion database but no longer double-counted among both abortions and fetal deaths). Until then, the fetal death data reported in the *Arizona Health Status and Vital Statistics* annual report will be focused on a subset of all records collected, that is **reportable spontaneous fetal losses**: including spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the death of fetuses of at least 350 grams in weight), and excluding induced terminations of pregnancy performed with the intention other than to remove a dead fetus.

It is only beginning with the year 2000 that information about the gestational age of a fetus became available in the electronic database of fetal deaths in Arizona. For the first time the users of the health statistical information about fetal deaths realized that a rather surprising number of records in the fetal death database also include some stillbirths prior to 20 weeks and of any weight, i.e., events not required to be reported in the State (**Table 1C-3**). In this report, those early stillbirths are excluded from the count of reportable fetal losses.

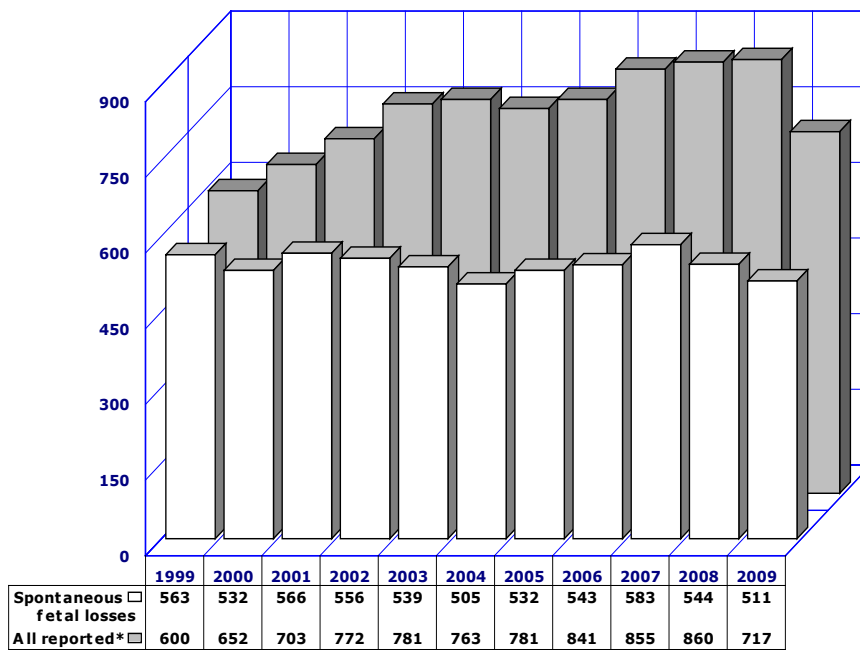
Beginning in 2003, the data tables in Section 1C and 5C have been revised to include only reportable spontaneous fetal losses.

The revision of the U.S. Standard, as well as Arizona Report of Fetal Death certification format introduces substantial changes in how cause of fetal death is collected. The new format has two parts: A) Initiating cause/condition and B) Other significant causes or conditions. The instructions direct the physician to report an initiating condition in part A and all remaining causes in part B. Compared with the previous U.S. Standard Report of Fetal Death (1989 revision), the new format eliminates the reported sequence of conditions resulting in death and assumes that physicians will be able to provide an “initiating cause/condition,” which is equivalent to the “reported underlying cause of death.” A list of checkboxes and “Specify” lines replace the previous open-ended format. The list is neither inclusive nor as detailed as possible. The “Specify” lines allow physicians to report other causes or provide more detail.

A comparison of the current with the proposed Arizona Certificate of Fetal Death is available online at <http://www.azdhs.gov/plan/cert/pdf/fetal.pdf>.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

Figure 1C-1
Trends in Fetal Deaths, Arizona, 1999-2009

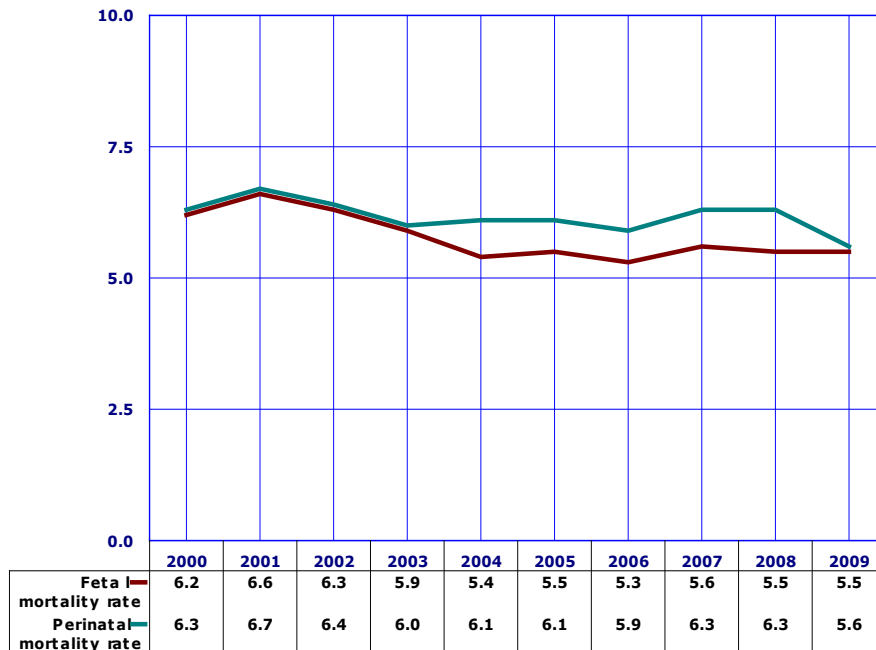


It is not possible to identify the gestational age of fetal deaths prior to 2000. However, the practice of including spontaneous or induced terminations of pregnancy prior to 20 weeks of gestation and/or of any weight had begun in 1997 effecting a rather substantial increase in the number of annually reported fetal deaths in Arizona from 483 in 1996 to 637 in 1997.

The number of all reported fetal deaths in Arizona (including late term abortions) in 2009 was 717 compared to 860 in 2008 (**Figure 1C-1, Table 1 C-3**). The annual number of reportable spontaneous fetal losses also decreased by 6.1 percent from 544 in 2008 to 511 in 2009 (**Figure 1C-1, Table 1C-3**).

*Includes spontaneous and induced termination 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).

Figure 1C-2
Fetal* and Perinatal Mortality Rates, Arizona, 2000-2009**



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 and fetal deaths decreased from 6.3 in 2008 to 5.6 in 2009 (**Figure 1C-2, Table 1C-3**).

Early infant deaths accounted for 281 or 53.6 percent of the 524 perinatal deaths in 2009; the same ratio as in 2008 (**Figure 1C-2, Table 1C-3**).

In contrast, the fetal mortality of 5.5 fetal deaths at 20 or more weeks of gestation per 1,000 live births and fetal deaths remained unchanged in 2009.

Rate is the number of fetal deaths per 1,000 live births and fetal deaths.

**Infant deaths of less than 7 days and fetal deaths with a period of gestation of 28 weeks or more, per 1,000 live births and fetal deaths.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

Figure 1C-3
Average Annual Maternal Mortality Rates by Mother's Age Group, Arizona, 1999-2009

In 2009, as in 2000, seven women were reported to have died from maternal causes (**Table 1C-1**). The number of maternal deaths does not include all deaths occurring to pregnant women, but only those deaths assigned to causes related to or aggravated by pregnancy or pregnancy management.

Based on the total number of 74 maternal deaths from 1999 to 2009 and 904,291 live births during that period, the average annual maternal mortality rate was 8.2 deaths per 100,000 live births. The average annual maternal mortality rate of 10.8 per 100,000 live births to women age 30 years or older during 1999-2009 was 2.3 times greater than the rate of 4.6/100,00 among women aged 19 years or younger (**Figure 1C-3**).

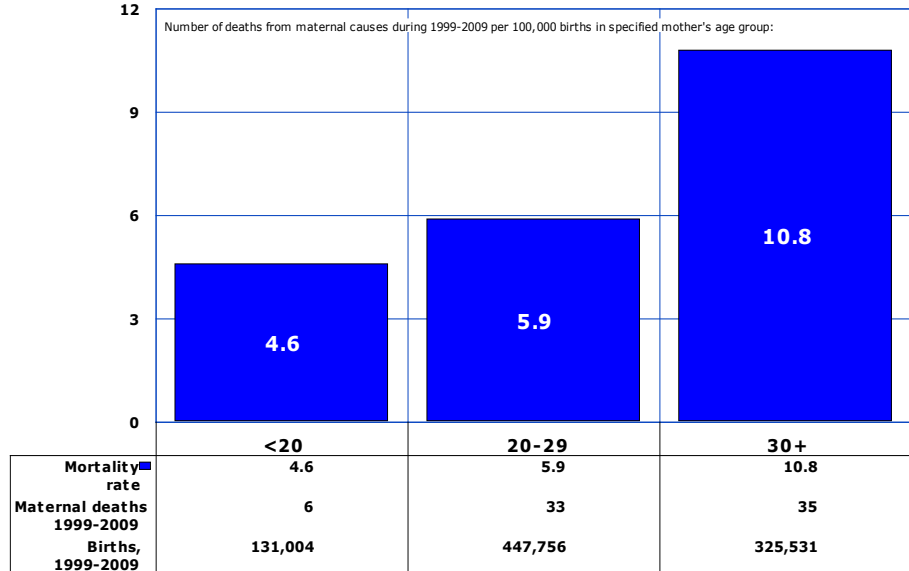
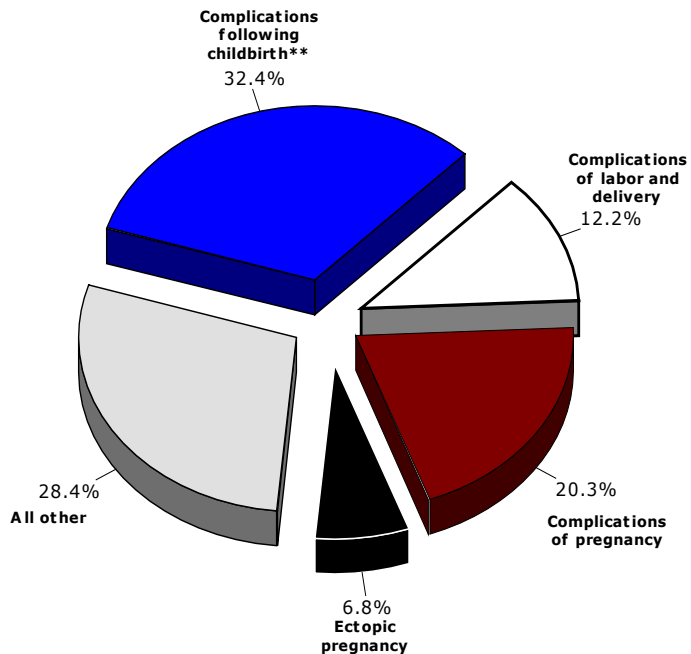


Figure 1C-4
Causes of Maternal Mortality*, Arizona, 1999-2009

In the eleven-year period from 1999 to 2009, the causes of maternal deaths in the State have included *complications following childbirth* (i.e. complications of the puerperium, 32.4 percent), *complications mainly related to pregnancy* (20.3 percent of all maternal deaths) and *complications occurring in the course of labor and delivery* (12.2 percent). *Ectopic pregnancy* accounted for 6.8 percent of maternal deaths in 1999-2009 (**Figure 1C-4**, **Table 1C-2**).

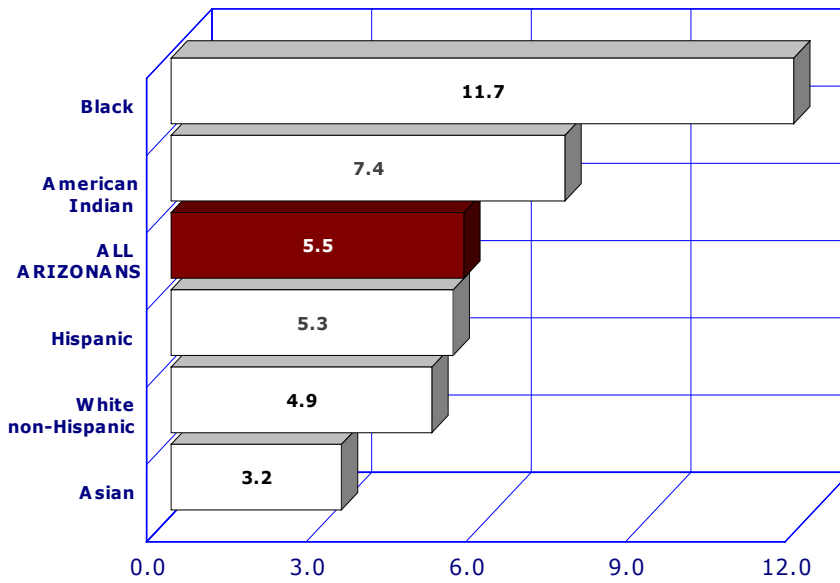


*Based on the total number of maternal deaths from 1997 to 2007.

** Complications of the puerperium.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

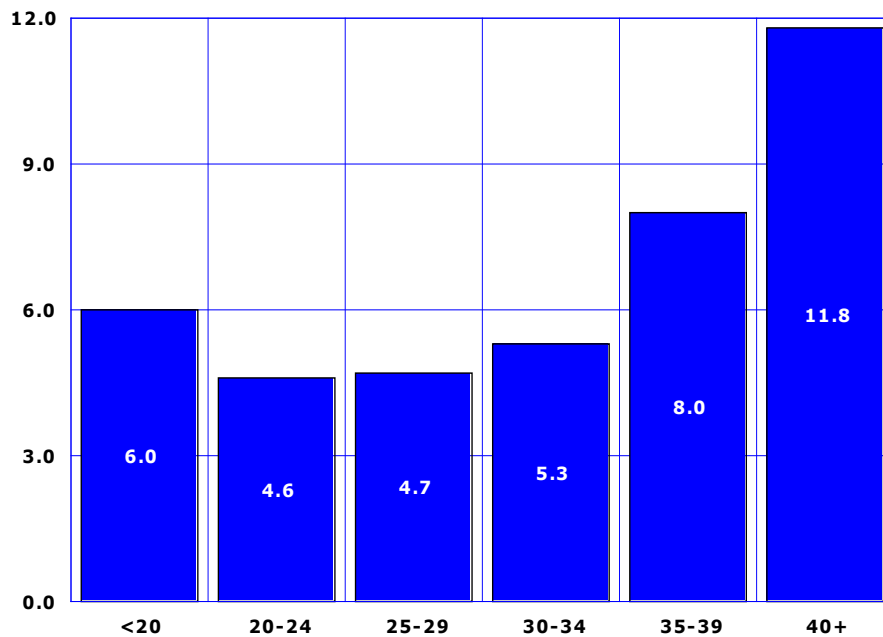
Figure 1C-5
Fetal Mortality Rates* by Race/Ethnicity, Arizona, 2009



Fetal mortality rates vary by the race/ethnicity of the mother (**Figure 1C-5**). The fetal mortality for Asian or Pacific Islander women was 3.2, the lowest rate among the groups. In contrast, the fetal mortality rate of 11.7 for Black or African American women was 3.7 times the rate for Asian or Pacific Islander women.

*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, 2009



Fetal mortality rates also vary considerably by maternal age (**Figure 1 C-6**). In 2009, fetal mortality rates were lowest for women aged 20-34 years and higher for teenage mothers and those aged 35 years and older. The rate for mothers aged 40 years or older was 11.8/1,000, 2.6 times the rate of 4.6 for mothers 20-24 years old.

*Rate is the number of fetal deaths per 1,000 live births and fetal deaths.

**TABLE 1C-1
MATERNAL DEATHS¹ BY AGE GROUP AND YEAR, ARIZONA, 1999-2009**

Year	Total maternal deaths	Under <15	15-19	20-24	25-29	30-34	35-39	40-44	45+
1999	3	0	0	0	0	1	2	0	0
2000	7	0	1	1	2	2	0	1	0
2001	8	0	2	2	3	0	0	0	1
2002	6	0	0	1	2	1	2	0	0
2003	5	0	0	0	1	1	3	0	0
2004	2	0	0	1	1	0	0	0	0
2005	9	0	0	3	3	0	2	1	0
2006	9	0	1	2	3	1	1	1	0
2007	8	0	2	0	0	2	3	1	0
2008	8	0	0	1	4	2	1	0	0
2009	7	0	0	0	2	3	2	0	0

¹For 1999, maternal deaths are those assigned to complications of pregnancy, childbirth and puerperium, category numbers 630-676 of the Ninth Revision, International Classification of Diseases. Beginning in 2000, these are category codes O00-O99 according to the Tenth Revision of the International Classification of Diseases.

**TABLE 1C-2
MATERNAL DEATHS BY CAUSE AND YEAR, ARIZONA, 1999-2009**

Cause of death (ICD-9/ICD-10 codes)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
PREGNANCY WITH ABORTIVE OUTCOME (630-636/O00-O07)	0	0	1	0	0	0	1	2	1	1	0
Ectopic pregnancy (633/O00)	0	0	1	0	0	0	1	1	1	1	0
COMPLICATIONS MAINLY RELATED TO PREGNANCY (640-648/O10-O16)	0	3	1	1	1	0	0	0	1	3	3
COMPLICATIONS OCCURRING IN THE COURSE OF LABOR AND DELIVERY (660-669/O60-O75)	1	1	1	1	0	1	0	2	0	0	1
COMPLICATIONS OF THE PUERPERIUM* (670-676/O85-O92)	2	1	2	2	2	0	4	4	2	2	3
ALL OTHER	0	2	3	2	2	1	4	1	4	2	0
TOTAL	3	7	8	6	5	2	9	9	8	8	7

* Complications following childbirth.

Note: In parentheses are category codes from the Ninth Revision/Tenth Revision of the International Classification of Diseases.

**TABLE 1C-3
FETAL AND PERINATAL DEATHS AND RATES BY YEAR, ARIZONA, 1999-2009**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
NUMBER OF ALL REPORTED FETAL DEATHS Include spontaneous and induced terminations of pregnancy at 20 or more weeks of gestation (or if gestational age unknown, the deaths of fetuses of at least 350 grams or more) and some stillbirths prior to 20 weeks and of any weight). Excludes fetal deaths occurring in Arizona to out-of-State residents.	600	652	703	772	781	763	781	841	855	860	717
NUMBER OF REPORTABLE FETAL DEATHS Include spontaneous and induced terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight)	NA	535	605	639	628	581	597	690	729	724	621
NUMBER OF REPORTABLE SPONTANEOUS FETAL LOSSES Include spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight), exclude induced terminations of pregnancy	563	532	566	556	539	505	532	543	583	544	511
RATE OF REPORTABLE SPONTANEOUS FETAL LOSSES¹	6.9	6.2	6.6	6.3	5.9	5.4	5.5	5.3	5.6	5.5	5.5
NUMBER OF PERINATAL DEATHS:	NA	536	570	562	550	568	588	599	649	632	524
Spontaneous fetal losses of 28 or more weeks of gestation	NA	260	274	278	252	271	266	259	290	293	243
Infant deaths of less than 7 days	283	276	296	284	298	319	322	340	359	339	281
PERINATAL DEATH RATE²	NA	6.3	6.7	6.4	6.0	6.1	6.1	5.9	6.3	6.3	5.6

¹ Per 1,000 live births + reportable spontaneous fetal losses of 20 or more weeks of gestation.

² Per 1,000 live births + spontaneous fetal losses of 28 or more weeks of gestation

Note: No information about gestational age was provided in the fetal death database prior to 2000.

**TABLE 1C-4
SELECTED CHARACTERISTICS OF REPORTABLE SPONTANEOUS¹ FETAL LOSSES BY YEAR, ARIZONA, 2000-2009**

Characteristic	Year									
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Total reportable spontaneous fetal losses	532	566	556	539	505	532	543	583	544	511
Gender										
Male	280	275	299	296	231	262	286	300	295	262
Female	244	267	253	240	270	268	252	277	246	244
Unknown	8	24	4	2	4	1	5	5	3	5
Mother's race/ethnicity										
White non-Hispanic	223	234	212	199	210	208	210	215	198	197
Hispanic or Latino	231	228	256	246	214	232	244	267	234	204
Black or African American	28	33	35	41	30	33	39	44	44	52
American Indian or Alaska Native	29	53	37	41	31	45	38	39	47	46
Asian or Pacific Islander	9	14	12	8	17	11	10	17	19	11
Unknown	12	4	4	4	3	3	2	1	2	1
Mother's age group										
<15	2	6	2	1	1	0	3	3	2	0
15-17	42	28	24	31	25	29	31	38	22	26
18-19	47	51	40	55	50	44	49	46	49	40
20-24	125	125	146	134	130	141	117	152	132	111
25-29	126	137	129	140	106	125	138	144	141	126
30-34	92	115	111	93	105	112	98	99	113	105
35-39	64	71	69	62	67	58	73	81	63	76
40-44	25	20	27	17	17	17	26	15	18	24
45+	2	1	4	1	1	2	5	3	2	2
Unknown	7	12	4	5	3	4	3	2	2	1
Gestational age²										
20-27 weeks	271	290	277	285	254	263	284	292	250	264
28+ weeks	260	274	278	252	249	266	259	290	293	243
Unknown	1	2	1	2	2	3	0	1	1	4
Weight in grams										
<350 grams	82	74	98	90	83	95	101	96	63	110
350-499	91	94	78	95	83	79	106	83	54	69
500-2,500	236	214	221	243	219	225	223	264	253	219
2,501-3,999	91	101	115	86	84	102	88	108	103	89
4,000+	7	16	15	12	21	13	13	19	9	13
Unknown	25	67	29	13	15	18	12	13	62	11

¹ Include spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight), exclude induced terminations of preanancy.

²For 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.

INDUCED TERMINATIONS OF PREGNANCY

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.

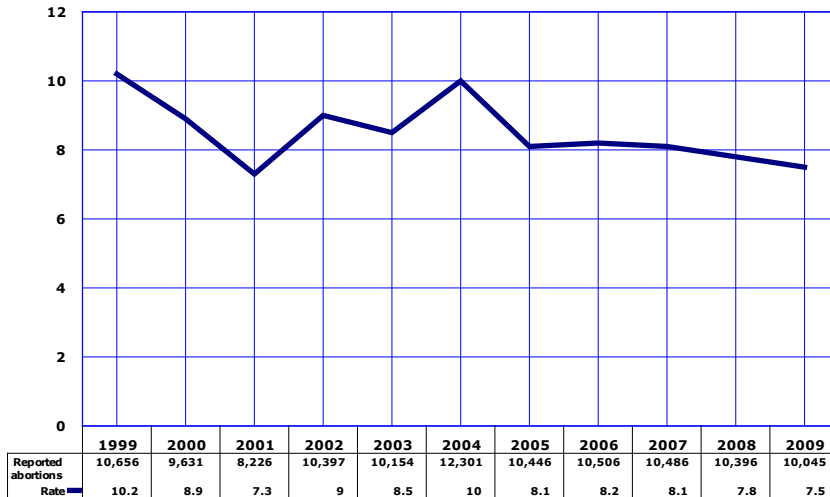
According to the Model State Vital Statistics Act and Regulations*, "induced termination of pregnancy" or abortion means "the purposeful interruption of pregnancy with the intention other than to produce a live-born infant or to remove a dead fetus which does not result in a live birth." This definition excludes management of prolonged retention of products of conception following fetal death. In this publication, the term "abortion" refers to induced termination of pregnancy in the above sense, and these two terms are used interchangeably.

The data in Sections 1D and 5D represent the number of abortions reported to ADHS not the actual number of abortions which occurred in the State. Although Arizona law requires that all abortions performed in the State be reported to the ADHS, complete reporting is not assured. Also, available data about abortions include only limited and incomplete information about induced terminations of pregnancy performed on Arizona residents in out-of-State facilities.

*1992 Revision published by the National Center for Health Statistics. Available online at <http://www.cdc.gov/nchs/data/misc/mvsact92b.pdf>

1D. INDUCED TERMINATIONS OF PREGNANCY

Figure 1D-1
Number of Reported Abortions and Abortion Rates* by Year,
Arizona Residents, 1999-2009



In calendar year 2009, the Arizona Department of Health Services received 10,045 reports of abortions obtained by Arizona residents, 351 less than the 10,396 reported in 2008 (**Figure 1-D1, Table 1D-1**).

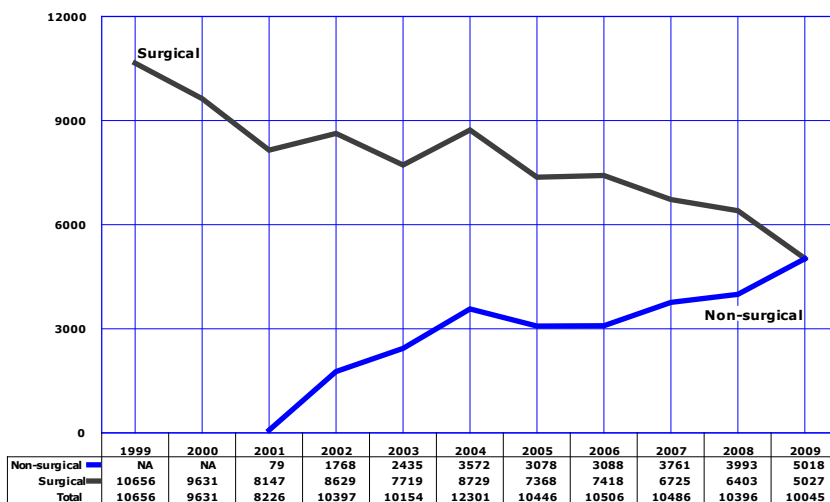
The proportion of induced terminations of pregnancy performed in physicians' offices declined over time from 13.0 percent in 1999 to 0.4 percent in 2005. In 2006 and 2007, all of the reported abortions performed in Arizona were in non-hospital clinics (percentages based on data in **Table 1D-1**). In 2009, 683 abortions were reported as performed in a physician's office.

Six out of ten (58.5 percent) women who reported having an abortion in 2009 had the procedure for the first time. Ninety-two percent of all reported abortions occurred before 13 weeks of pregnancy. Few reported abortions occurred after 15 weeks of gestation: 1.8 percent at 16-20 weeks and 0.3 percent at ≥ 21 weeks (percentages based on data in **Table 1D-3**).

Eighty-six percent of women who obtained abortions were known to be unmarried (**Table 5D-5**).

Numer of abortions per 1,000 females 15-44 years old.

Figure 1D-2
Trends in the Number of Surgical and Non-Surgical Abortions by Year,
Arizona Residents, 1999-2009



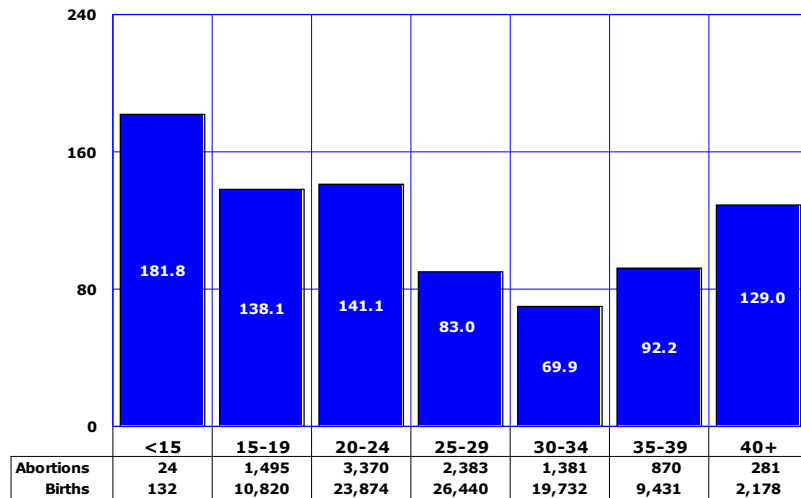
The rate of induced terminations of pregnancy per 1,000 female residents aged 15-44 decreased from 8.1 in 2007 to 7.8 in 2008, and 7.5 in 2009 (**Table 1D-1**). A time series analysis of annual abortion data for 1999-2009 continues to reveal a declining trend (**Figure 1 D-2, Table 1 D-1**) in surgical terminations of pregnancy in Arizona, while an upward trend applies to non-surgical abortions.

The number of reported non-surgical abortions (i.e., terminations of pregnancy by the administration of a medication such as *methotrexate* or *mifepristone* each used in conjunction with *misoprostol*) increased by 25.7 percent from 3,993 in 2008 to 5,018 in 2009. The number of surgical abortions (performed by curettage or by dilation and evacuation) decreased by 21.5 percent from 6,403 in 2008 to 5,027 in 2009. In 2009, non-surgical abortions for the first time accounted for approximately 50 percent of all induced terminations of pregnancy. All abortions performed in Yavapai and Yuma counties were non-surgical.

1D. INDUCED TERMINATIONS OF PREGNANCY

Abortion ratios (the number of abortions per 1,000 live births in each age group) vary by age of women 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 19 and those aged 40 years or older (**Figure 1D-3**). However, from 2007 to 2009 the abortion ratio among women 20-24 years old increased by 13.4 percent. In 2009, it exceeded the abortion ratio among adolescents aged 15-19 years. Since there was no increase in the number of abortions for this age group during that time, the increase in the abortion ratio was a reflection of the decline in the number of births among women aged 20-24 years from 27,764 in 2007 to 23,874 in 2009.

Figure 1D-3
Abortion Ratios* by Age Group, Arizona Residents, 2009

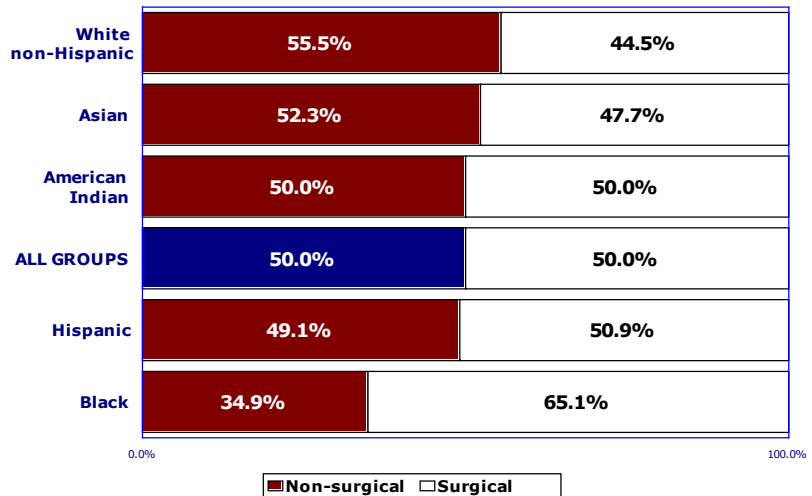


A comparison of age-specific abortion ratios by race/ethnicity is provided in **Table 1D-5**.

Number of reported abortions per 1,000 live births in specified group.

Figure 1D-4
Proportional Contribution of Non-Surgical and Surgical Abortions by Race/Ethnicity, Arizona Residents, 2009

In 2009, non-surgical (also called “medical”) abortions made up approximately 50 percent of all procedures reported in Arizona. Among White non-Hispanics, Asians, and American Indians did the proportion of non-surgical abortions exceed the average for all groups (**Figure 1D-4**). The ratios of non-surgical abortions among Hispanic or Latino and Black or African American women were the lowest among race/ethnic groups.



Non-surgical: Mifepristone, Methotrexate, RU486, etc.

**TABLE 1D-1
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 1999-2009**

Characteristics	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
ABORTIONS PERFORMED IN ARIZONA	10,765	10,064	8,302	10,677	10,316	12,690	10,723	10,836	10,721	10,660	10,271
Resided in state	10,656	9,631	8,226	10,397	10,154	12,301	10,446	10,467	10,448	10,358	10,045
Resided out-of-state	109	433	76	280	162	389	277	369	273	302	226
RESIDENT ABORTIONS	10,656	9,631	8,226	10,397	10,154	12,301	10,446	10,506	10,486	10,396	10,045
Performed in Arizona	10,656	9,631	8,226	10,397	10,154	12,301	10,391	10,467	10,448	10,358	10,020
Performed out-of-state ¹	NA	NA	NA	NA	NA	NA	55	39	38	38	25
RACE/ETHNICITY											
White non-Hispanic	4,868	4,786	3,917	4,909	4,887	5,276	4,431	5,106	5,202	4,737	4,759
Hispanic or Latino	2,904	2,995	2,737	3,566	3,441	4,485	3,112	3,160	3,719	3,124	3,303
Black or African American	465	531	450	556	495	723	585	581	675	744	736
American Indian	253	253	220	285	357	341	353	342	310	297	300
Asian or Pacific Islander	201	250	207	273	272	444	379	391	454	412	390
Unknown	1,965	816	695	808	702	1,032	1,586	926	126	1,082	557
AGE											
19 years and under	2,046	1,988	1,528	1,995	1,867	2,220	1,892	1,919	1,979	1,813	1,519
20-29 years	5,436	5,029	4,313	5,406	5,531	6,800	5,684	5,770	5,839	5,854	5,753
30 years and over	2,333	2,246	1,926	2,475	2,431	2,939	2,436	2,702	2,652	2,403	2,532
Not stated	841	217	459	521	325	342	434	115	16	326	241
YEARS OF EDUCATION											
Elementary/secondary (1-12)	3,680	3,257	2,604	3,029	2,444	3,321	1,435	6,226	9,293	6,964	5,244
College (1-4 or 5+)	1,888	2,537	1,777	2,156	1,889	2,726	1,330	1,415	1,193	2,565	3,372
Not stated	5,088	3,837	3,845	5,212	5,821	6,254	7,681	2,865	0	867	1,429
WEEKS OF GESTATION											
12 weeks or under	8,856	7,637	6,078	8,471	8,093	10,678	8,558	9,470	9,498	9,175	9,238
13 weeks or over	1,443	1,171	996	1,147	998	1,224	1,068	948	974	916	597
Not stated	357	823	1,152	779	1,063	399	820	88	14	305	210

¹ There are no interstate agreements to exchange abortion reporting forms. Very few states voluntarily send these forms to Arizona.

TABLE 1D-1 (continued)
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 1999-2009

Characteristics	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
FACILITY											
Clinic	9,153	8,429	7,334	9,485	9,158	12,281	10,442	10,560	10,486	10,391	9,362
Doctor's Office	1,386	1,202	892	911	995	20	4	0	0	5	683
Hospital	0	0	0	1	1	0	0	0	0	0	0
Other/Not stated	117	0	0	0	0	0	0	0	0	0	0
REASON FOR TERMINATION											
Elective	10,390	9,614	8,210	9,910	9,602	10,770	9,987	10,436	10,482	10,377	10,017
Medical	19	15	10	21	43	207	78	8	2	4	19
Not stated	247	2	6	466	449	1,324	381	62	14	15	9
PREVIOUS LIVE BIRTHS											
None	4,623	4,109	3,490	4,508	4,446	5,215	4,593	4,798	4,517	4,441	4,377
One or more	6,033	5,522	4,736	5,889	5,708	7,086	5,853	5,708	5,969	5,955	5,668
PREVIOUS INDUCED TERMINATIONS OF PREGNANCY											
None	6,647	6,160	5,271	6,561	6,606	7,778	6,453	6,390	6,453	6,338	5,874
One or more	4,009	3,471	2,955	3,846	3,548	4,523	3,993	4,116	4,033	4,058	4,171
PREVIOUS SPONTANEOUS TERMINATIONS OF PREGNANCY											
None	9,150	8,474	7,218	9,494	8,780	10,454	8,916	8,864	8,807	8,756	8,424
One or more	1,506	1,157	1,008	903	1,374	1,847	1,530	1,642	1,679	1,640	1,621
NONSURGICAL ABORTIONS											
	NA	NA	79	1,768	2,435	3,572	3,078	3,088	3,761	3,993	5,018
ABORTION RATIO¹	132.4	113.3	96.5	119.0	111.9	131.7	109.0	103.0	102.1	104.8	108.5
ABORTION RATE²	10.2	8.9	7.3	9.0	8.5	10.0	8.1	8.2	8.1	7.8	7.5

¹Number of abortions per 1,000 women giving birth.

²Number of abortions per 1,000 women of childbearing age (15 - 44 years old).

Note: Nonsurgical abortions are induced terminations of pregnancy by the administration of a medication such as methotrexate. Selected counts for 2005, 2006, and 2008 in the above table were revised and differ from those previously published.

**TABLE 1D-2
NUMBER OF LIVE BIRTHS, ABORTIONS AND RATIOS¹ OF INDUCED TERMINATIONS OF PREGNANCY
BY RACE/ETHNICITY AND YEAR, ARIZONA, 1999-2009**

Race/ethnicity	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
TOTAL, ALL GROUPS²											
Births	80,505	84,985	85,213	87,379	90,783	93,396	95,798	102,042	102,687	99,215	92,616
Abortions	10,656	9,631	8,226	10,397	10,154	12,301	10,446	10,506	10,486	10,396	10,045
Abortion ratio	132.4	113.3	96.5	119.0	111.9	131.7	109.0	103.0	102.1	104.8	108.5
WHITE NON-HISPANIC											
Births	38,711	39,850	38,934	38,819	38,842	39,271	39,657	43,013	42,216	41,925	39,781
Abortions	4,868	4,786	3,917	4,909	4,887	5,276	4,431	5,106	5,202	4,737	4,579
Abortion ratio	125.8	120.1	100.6	126.5	125.8	134.3	111.7	118.7	123.2	113.0	115.1
HISPANIC OR LATINO											
Births	30,784	33,893	35,103	36,089	39,101	40,822	42,156	44,862	45,731	42,639	38,362
Abortions	2,904	2,995	2,737	3,566	3,441	4,485	3,112	3,160	3,719	3,124	3,303
Abortion ratio	94.4	88.4	78.0	98.8	88.0	109.9	73.8	70.4	81.3	73.3	86.1
BLACK OR AFRICAN AMERICAN											
Births	2,699	2,760	2,736	2,753	3,022	3,216	3,450	3,864	4,165	4,301	4,378
Abortions	465	531	450	556	495	723	585	581	675	744	736
Abortion ratio	172.3	192.4	164.5	202.0	163.8	224.8	169.6	150.4	162.1	173.0	168.1
AMERICAN INDIAN OR ALASKA NATIVE											
Births	5,295	5,602	5,340	5,545	5,881	6,120	6,293	6,364	6,408	6,362	6,170
Abortions	253	253	220	285	357	341	353	342	310	297	300
Abortion ratio	47.8	45.2	41.2	51.4	60.7	55.7	56.1	53.7	48.4	46.7	48.6
ASIAN OR PACIFIC ISLANDER											
Births	1,875	2,041	2,104	2,281	2,524	2,614	2,805	3,136	3,412	3,425	3,396
Abortions	201	250	207	273	272	444	379	391	454	412	390
Abortion ratio	107.2	122.5	98.4	119.7	107.8	169.9	135.1	124.7	133.1	120.3	114.8

¹Number of resident abortions performed in Arizona per 1,000 resident live births in specified race/ethnic group.

²Total for all groups may include record with unknown or unspecified race/ethnic group.

**TABLE 1D-3
ABORTIONS BY WEEK OF GESTATION AND AGE GROUP, ARIZONA, 2009**

	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Unknown
Total	10,045	24	418	1,077	3,370	2,383	1,381	870	260	21	241
6 weeks or less	3,675	5	100	329	1,215	922	512	368	105	7	112
7	2,229	2	84	241	762	521	319	182	58	8	52
8	1,411	3	76	158	474	307	201	113	36	2	41
9	749	3	42	92	250	179	106	47	16	0	14
10	510	5	27	64	168	122	71	38	8	3	4
11	385	0	24	57	128	96	39	21	14	0	6
12	279	1	26	36	86	58	40	28	4	0	0
13	187	1	10	22	65	42	23	18	3	0	3
14	112	1	5	13	38	29	12	11	3	0	0
15	89	0	6	14	26	22	10	9	1	0	1
16	68	1	5	10	30	9	7	5	0	0	1
17	49	1	2	5	19	7	4	7	3	0	1
18	37	0	2	4	15	9	4	2	1	0	0
19	14	1	1	0	6	3	1	2	0	0	0
20	13	0	0	1	7	5	0	0	0	0	0
21+	28	0	2	7	8	4	3	3	0	0	1
Unknown	210	0	6	24	73	48	29	16	8	1	5

**TABLE 1D-4
ABORTIONS BY WEEK OF GESTATION AND RACE/ETHNICITY, ARIZONA, 2009**

Week of gestation	Total	Race/ethnicity						
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Other race	Unknown race
Total	10,045	4,759	3,303	736	300	390	134	423
6 weeks or less	3,675	1,886	1,163	185	80	174	51	136
7	2,229	1,067	748	156	61	89	26	82
8	1,411	681	479	91	47	41	22	50
9	749	324	241	84	30	27	12	31
10	510	212	157	70	23	17	6	25
11	385	162	123	45	11	9	6	29
12	279	119	93	26	11	14	2	14
13	187	71	70	21	10	2	1	12
14	112	40	43	14	8	2	1	4
15	89	35	31	8	3	3	1	8
16	68	29	25	3	2	1	0	8
17	49	20	15	4	1	3	1	5
18	37	9	13	8	3	0	2	2
19	14	6	6	2	0	0	0	0
20	13	3	5	2	2	0	0	1
21+	28	10	11	5	1	0	0	1
Unknown	210	85	80	12	7	8	3	15

**TABLE 1D-5
NUMBER OF LIVE BIRTHS, ABORTIONS, AND RATIOS OF INDUCED TERMINATIONS OF PREGNANCY BY AGE GROUP
AND RACE/ETHNICITY, ARIZONA, 2009**

	All ages*	< 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	
White non Hispanic	Births	39,781	20	649	2,046	9,012	12,437	9,933	4,601	987	94
	Abortions	4,759	11	207	502	1,597	1,105	629	438	160	8
	Abortion ratio**	119.6	550.0	319.0	245.4	177.2	88.8	63.3	95.2	162.1	85.1
Hispanic or Latino	Births	38,362	87	2,253	4,001	10,979	6,886	3,292	664	36	
	Abortions	3,303	8	136	381	1,104	801	453	262	52	4
	Abortion ratio	86.1	92.0	60.4	95.2	100.6	78.8	65.8	79.6	78.3	111.1
Black or African American	Births	4,378	6	181	416	1,371	1,169	752	396	77	10
	Abortions	736	3	28	79	256	194	102	56	11	1
	Abortion ratio	168.1	NA	154.7	189.9	186.7	166.0	135.6	141.4	142.9	100.0
American Indian or Alaska Native	Births	6,170	17	394	759	2,035	1,494	898	454	113	5
	Abortions	300	0	22	30	101	72	38	25	7	1
	Abortion ratio	48.6	0.0	55.8	39.5	49.6	48.2	42.3	55.1	61.9	NA
Asian or Pacific Islander	Births	3,396	2	18	68	383	1,037	1,157	597	126	8
	Abortions	390	1	8	31	104	102	63	48	19	5
	Abortion ratio	114.8	NA	444.4	455.9	271.5	98.4	54.5	80.4	150.8	NA

* Includes records with unknown age.

**The number of abortions per 1,000 live births. The abortion ratio is calculated if at least 10 (ten) births are recorded in specified group.
Note: Records with unknown race/ethnicity are not shown above.