

ARIZONA PERINATAL STATISTICS

A REPORT ON PRENATAL CARE, LOW BIRTH WEIGHT AND
INFANT MORTALITY

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INTRODUCTION

This report on Arizona Perinatal Statistics will focus on prenatal care, low birth weight infants, neonatal, infant mortality and the characteristics of mother and baby which appear to place the newborn at higher risk for complications. Frequency distributions are calculated for prenatal care, low birth weight and deaths. Where available, rates specific to the variable under discussion are used. The interrelationships of these are examined.

The sources of all data discussed are published and unpublished Arizona Vital Statistics, unless specifically noted otherwise. The linked birth/death certificates for infant deaths reported in 1983 and 1984 and selected statistics on prenatal care and low birth weight, are examined here. The death statistics are based on 1983 and 1984 deaths.¹⁾ The prenatal care data are based on 1983 and 1984 birth certificate information obtained prior to the official closing date for receipt of certificates from birth registrars.²⁾

The report is divided into six sections: Executive Summary, Attainment of Federal 1990 Objectives, Natality Overview, Prenatal Care, Birth Weight, and Infant Mortality.

-
1. The linked records represent slightly less than the total infant deaths for these periods (488 of 509 for 1983 and 501 of 525 for 1984) All neonatal deaths are available for 1983; 21 postneonatal records are missing. For 1984, 6 neonatal records are missing and 18 postneonatal records are unavailable.
 - 2) Therefore, detailed analysis of prenatal care-related data do not reflect the official totals (preliminary data on 4,665 records compared to 4,690 final births).

EXECUTIVE SUMMARY

The interrelationships between adequacy of prenatal care, low birth weight and infant mortality are examined in this report. Numerous studies have demonstrated that the receipt of adequate prenatal care is a major determinant of good pregnancy outcome. The proportion of women delivering low birth weight infants (infants born weighing less than 2500 grams) increases dramatically when women receive inadequate or no prenatal care. Low birth weight is a major cause of infant mortality in Arizona. Most infant deaths occur in the first four weeks of life, the neonatal period, and most are a consequence of inadequate fetal growth.

Since 1970, Arizona has experienced a downward trend in both the rate of low birth weight and infant mortality. Although the infant mortality rate has decreased approximately 87% since 1970, there has not been a comparable decrease in the incidence of low birth weight (which decreased 20% during the same time period). The mortality decline has been accomplished primarily by improving the survival of low birth weight infants and further declines will probably require a reduction in the rate of low birth weight. The downward trend in mortality and low birth weight rates reached its lowest point in 1982, with increasing rates since. The cause of this worsening in pregnancy outcomes is not completely understood, however the rate of woman receiving no or inadequate prenatal care demonstrates a similar trend, with rates increasing since 1982.

In 1980, the U.S. Department of Health & Human Services established pregnancy and infant health objectives to be met throughout the nation by 1990. Currently, Arizona is not meeting the infant mortality or low birth weight objectives as set by the Surgeon General. If current trends continue, it is unlikely that these objectives will be met by 1990.

This report presents a complete analysis of inadequate prenatal care, low birth weight, and infant mortality. The following findings should be highlighted:

BIRTHS

- Arizona has experienced a dramatic increase in the number of births since 1975.
- The age specific fertility rate for teenagers under age 18 is 15.0/1,000 live births.
- The number of births to Black and Indian mothers has demonstrated the largest relative increase since 1981.

PRENATAL CARE

- The rate of women receiving no prenatal care has increased by 19% since 1979.

- The rate of women receiving no prenatal care has doubled in Maricopa County since 1982.
- Indian and Hispanic women and all teenagers are twice as likely to receive no prenatal care.
- Unwed mothers are two and one half times as likely as married women to receive inadequate or no prenatal care.
- The number of women receiving inadequate prenatal care (less than five prenatal visits) in 1984 was 4,690.

LOW BIRTH WEIGHT

- The rate of low birth weight has increased by 5% and the rate of very low birth weight (infants under 1500 grams - the smallest infants at greatest risk for complications) has increased by 17% since 1982.
- In 1984, 3,378 infants were born weighing less than 2500 grams - low birth weight.
- Women who receive no prenatal care have five times the rate of very low birth weight babies and almost three times the rate of low birth weight babies compared to women with adequate care.
- Black women and young teenagers have twice the low birth weight rate as white or older mothers.
- Maricopa County has experienced a significant increase in the low birth weight rate since 1982.

MORTALITY

- Women who receive no prenatal or inadequate prenatal care have a neonatal death rate almost five times the rate of women with adequate care.
- The low birth weight baby has a neonatal death rate 35 times the normal weight baby and very low birth weight infants have a neonatal death rate 183 times the normal weight baby.
- Low birth weight babies account for 50% of all infant deaths.
- Blacks have an infant mortality rate twice that of Whites.
- Teenage mothers, unwed mothers, as well as all women with less than a high school education have higher infant mortality rates.
- Neonatal mortality decreases as intra-pregnancy spacing increases.

- Women who have a subsequent pregnancy within one year have a neonatal mortality rate five times greater than women who delay pregnancy at least 1 $\frac{1}{2}$ years.
- Approximately 60% of neonatal deaths are related to complications surrounding the perinatal period with prematurity and respiratory distress predominating. The majority of post-neonatal deaths are related to SIDS.

ATTAINMENT OF FEDERAL 1990 OBJECTIVES

The U.S. Department of Health and Human Services in Promoting Health/Preventing Diseases has established Pregnancy and Infant Health Objectives for the year 1990. In 1984, the State of Arizona stood as follows in the attainment of these objectives:

1. By 1990, the infant mortality rate will be no more than 9 deaths/1,000 live births.

In 1984, the Arizona infant mortality rate was 9.5/1,000 live births.

2. By 1990, no county and no racial or ethnic group will have an infant mortality rate in excess of 12 deaths/1,000 live births.

In 1984, four Arizona counties had infant mortality rates which exceeded 12.0/1,000 live births: Apache (13.8), Cochise (14.2), Graham (15.7), Pinal (14.6). Only Blacks exceeded this objective (19.5).

3. By 1990, the neonatal death rate will be no more than 6.5/1,000 live births.

In 1984, the Arizona neonatal mortality rate was 5.5/1,000 live births.

4. By 1990, low birth weight babies should constitute no more than 5 percent of all live births.

In 1984, the Arizona low birth weight rate was 6.1%.

5. By 1990, no county and no racial or ethnic group will have a rate of low birth weight infants exceeding 9 percent of all live births.

In 1984, no Arizona county exceeded the federal objective; only the Black rate was higher (12.3%).

6. By 1990, the proportion of women in any county or racial or ethnic group who obtain no prenatal care during the first trimester of pregnancy should not exceed 10 percent.

Approximately 26% of the women delivering in 1984 received no prenatal care during the first trimester. It is unlikely that any county or ethnic group met this objective.

NATALITY OVERVIEW

The number of resident births has demonstrated a 39% increase since 1979 (39,543 births to 55,109) however, the resident birth rate in Arizona has remained relatively level during this time period. Table 1. The Arizona rate has been consistently higher than that for the U.S. (1980-15.8, 1981-15.9, 1982-16.2, 1983-15.5).

TABLE 1
NUMBER AND RATE OF BIRTHS
Arizona, 1979-1984

	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>
Number	39,543	50,049	51,620	52,628	52,919	55,109
Rate	17.8	18.4	18.4	18.2	18.0	18.0

Rate = Number of births per 1,000 estimated population
Source: Arizona Vital Statistics

During the 1980's, the number of births to adolescent mothers and the age specific birth rate has decreased slightly. Table 2. The number of births to young adolescents (less than 15 years) continues to be a problem, while the proportion of births to mothers under 20 (15.6% in 1982) ranks Arizona as 34th in the United States. ³⁾ County specific data are available in Table A in the Appendix.

TABLE 2
NUMBER AND RATE OF ADOLESCENT BIRTHS
Arizona, 1980-1983

<u>AGE (YEARS)</u>		<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>
10-14	#	138	123	129	123
	Rate	1.3	1.1	1.1	1.1
15-17	#	3002	2812	2786	2649
	Rate	41.6	39.7	40.3	39.3
18-19	#	5170	5295	5307	5025
	Rate	100.3	106.6	107.9	102.8
TOTAL	#	8310	8230	8222	7797
	Rate	35.9	35.3	35.8	34.1

Rate = Number of births per 1,000 women in specific age group
Source: Arizona Vital Statistics

3) Children's Defense Fund, The Data Book, 1985.

The ethnic distribution of births has remained relatively stable since 1981 with the majority of births to Whites. The number of Indian and Black births has demonstrated the greatest increase (15% and 40% respectively). Table 3.

TABLE 3
NUMBER AND PERCENTAGE OF BIRTHS
BY MATERNAL ETHNICITY
Arizona, 1981-1984

<u>AGE (YEARS)</u>		<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>
White	#	44,391	45,049	45,141	46,248
	%	86.0	85.6	85.3	83.9
Hispanic	#	N/A	N/A	13,279	13,784
	%	N/A	N/A	25.1 *	25.0 *
Indian	#	4,878	5,137	5,297	5,598
	%	9.4	9.8	10.0	10.2
Black	#	1,759	1,800	1,820	2,457
	%	3.4	3.4	3.4	4.4
Other	#	592	642	661	806
	%	1.1	1.2	1.2	1.5

Percent: Proportion of Arizona births in each ethnic group

Source: Arizona Vital Statistics

* Will not total 100 % because Hispanic also counted as Whites.

PRENATAL CARE

Numerous studies have documented a strong relationship between the adequacy of prenatal care and pregnancy outcome. Optimal care recommended for pregnant women is 14 prenatal visits; however, the definition of inadequate prenatal care utilized in this paper is less than five prenatal visits or prenatal care initiated in the third trimester. The pregnancy outcomes for this inadequate care population are clearly poorer than for women who receive a larger number of prenatal visits.

TRENDS

Figures 1 and 2 show that the rate of women who received inadequate prenatal care reached its lowest levels in 1981 and 1982 and that this has been steadily increasing since. Similarly, the rate of inadequate prenatal care (number of women receiving inadequate care/1000 births) shows a similar pattern. Table 4 shows that the rate of women receiving no prenatal care rose between 1979 and 1980, dropped in 1982, and rose again in 1983 and 1984 to rates beyond those of 1979 (19% increase from 1979 to 1984). Numerically, 836 women received no prenatal care in 1979, compared to 1,181 in 1984. Table 4 also shows that the rate of women receiving 1-4 prenatal visits decreased steadily between 1979 and 1982, and has risen since. In summary, both the women who received no prenatal care and women who received 1-4 prenatal visits demonstrate a similar trend of increasing numbers and rates since 1982 such that in 1984, 4,690 women received inadequate prenatal care. County specific data are available in Tables B, C, D and E.

The rate of women receiving no prenatal care varies by county of residence with Yuma, Pima, Apache and Santa Cruz having the highest rates. The two densely populated counties have rates that vary by a factor of 3.5 (Maricopa 11.3/1,000 and Pima 38.3/1,000), however the trends are different in each county; the rate has doubled in Maricopa and has decreased by 26% in Pima since 1982. Virtually all of the increase in absolute numbers of women receiving inadequate care (statewide) can be attributed to the increasing numbers of no care women in Maricopa and Yuma Counties.

The data regarding 1-4 prenatal visits is similar to the no prenatal visit data. The great majority of the increase in the absolute numbers of women and the rate (statewide) can be attributed to increases in Maricopa County. In 1982, Pima and Maricopa had similar rates (37.8/1,000 and 39.3/1,000 respectively), however in 1984, Maricopa's rate had increased by 38% and Pima's had remained the same.

TABLE 4
NUMBER AND RATE OF WOMEN RECEIVING
INADEQUATE PRENATAL CARE
ARIZONA, 1979-1984

<u>PRENATAL VISITS</u>		<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>
None	#	836	1,002	1,007	997	1,126	1,181
	Rate	18.0	20.0	19.5	18.9	21.3	21.4
1-4	#	3,463	3,247	2,974	3,001	3,045	3,509
	Rate	74.4	64.9	57.6	57.0	57.7	63.7
Under 5	#	4,299	4,249	3,981	3,998	4,171	4,690
	Rate	92.4	84.9	76.9	75.9	79.0	85.1

Rate per 1,000 live births
Source: Arizona Vital Statistics

The percentage and number of women entering prenatal care in the first trimester demonstrate a similar relationship of increasing numbers and rates since 1982. Table 5.

TABLE 5
NUMBER AND PERCENTAGE OF WOMEN
ENTERING PRENATAL CARE IN THIRD TRIMESTER
Arizona, 1984

		<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>
1st	#	34406	37415	38672	38026	38852
	%	68.7	72.5	73.5	71.9	70.5
2nd	#	11039	10040	9901	10320	10900
	%	22.1	19.4	18.8	19.5	19.8
3rd	#	2861	2511	2490	2759	3381
	%	5.7	4.9	4.7	5.2	6.1
TOTAL		50049	51620	52628	52919	55109

% = percent of women entering care in the third trimester
Source: Arizona Vital Records

FIGURE 1

NO PRENATAL VISITS ARIZONA, 1980 - 1984

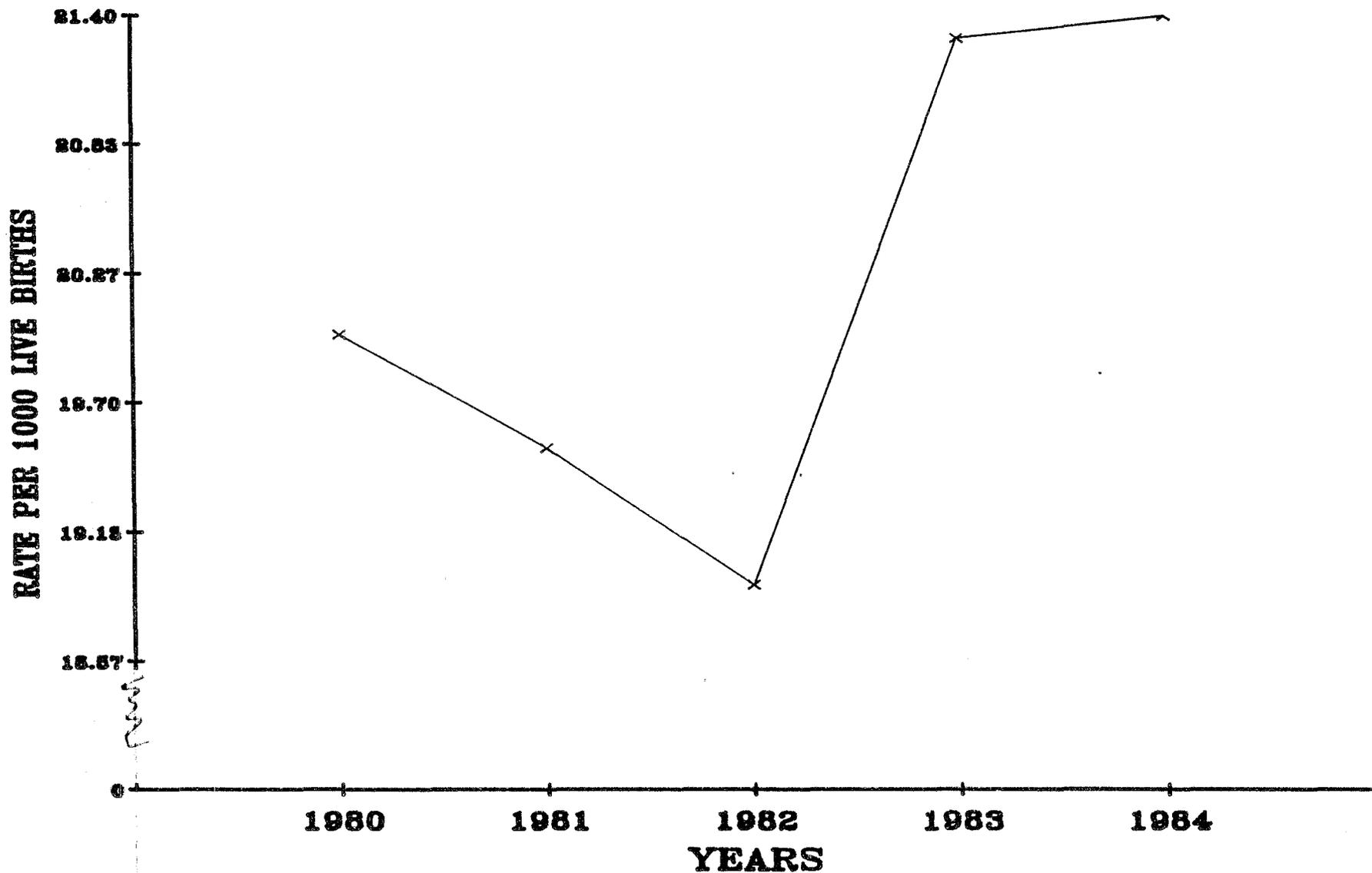
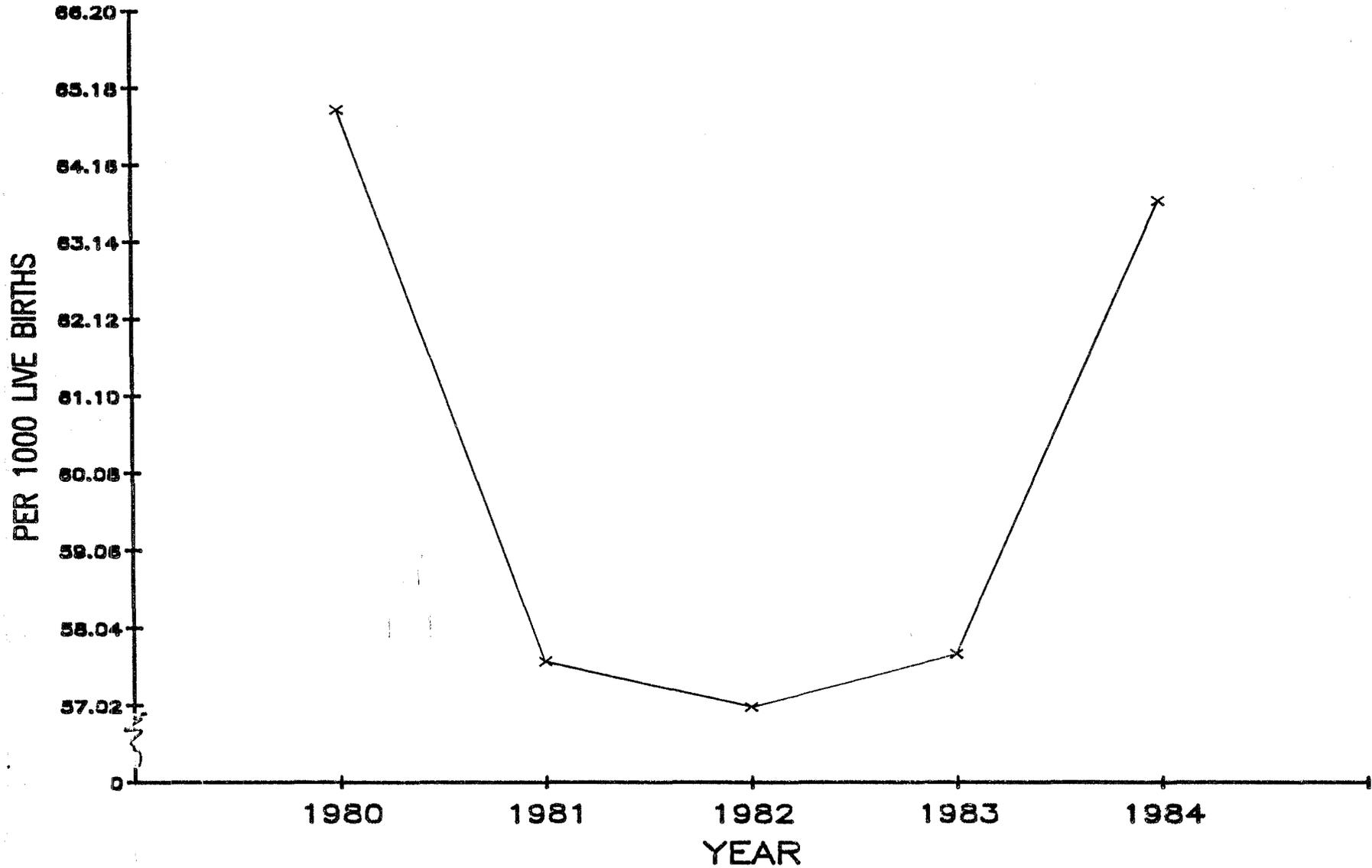


FIGURE 2

RATE OF 1 - 4 PRENATAL VISITS ARIZONA 1980 - 1984



MATERNAL CHARACTERISTICS

The women who receive inadequate prenatal care are not randomly distributed in the population. Certain subpopulations tend to be at greater risk of receiving inadequate prenatal care. Women who are of minority status, who are teenagers, or who are unmarried are less likely to receive adequate prenatal care. The following discussion is based on 1984 Vital Records unless otherwise noted. Similar data for 1983 are available in the Appendix.

MATERNAL ETHNICITY

Figure 3 and Table 6 show that American Indians and Hispanics were the ethnic groups with the highest proportion of women receiving no prenatal care. Of each group, 4.1% received no care compared to 1.9% of White women who received no prenatal care.

Again, Figure 4 and Table 6 show the same high proportion of these two ethnic groups receiving only 1-4 prenatal visits. However, in this care category, Black women also exceeded Whites in their representation. Compared to Whites, the percentage of American Indian women was over-represented in the 1-4 care group by over two and one-half times and Hispanic women by over one and one-half times.

Overall, Indian women were approximately 2 1/2 times and Hispanic women 1 1/2 times more likely than White women to receive less than 5 prenatal visits. County specific data are available in Tables G and H.

FIGURE 3

MATERNAL ETHNICITY, ARIZONA, 1984 NO PRENATAL VISITS

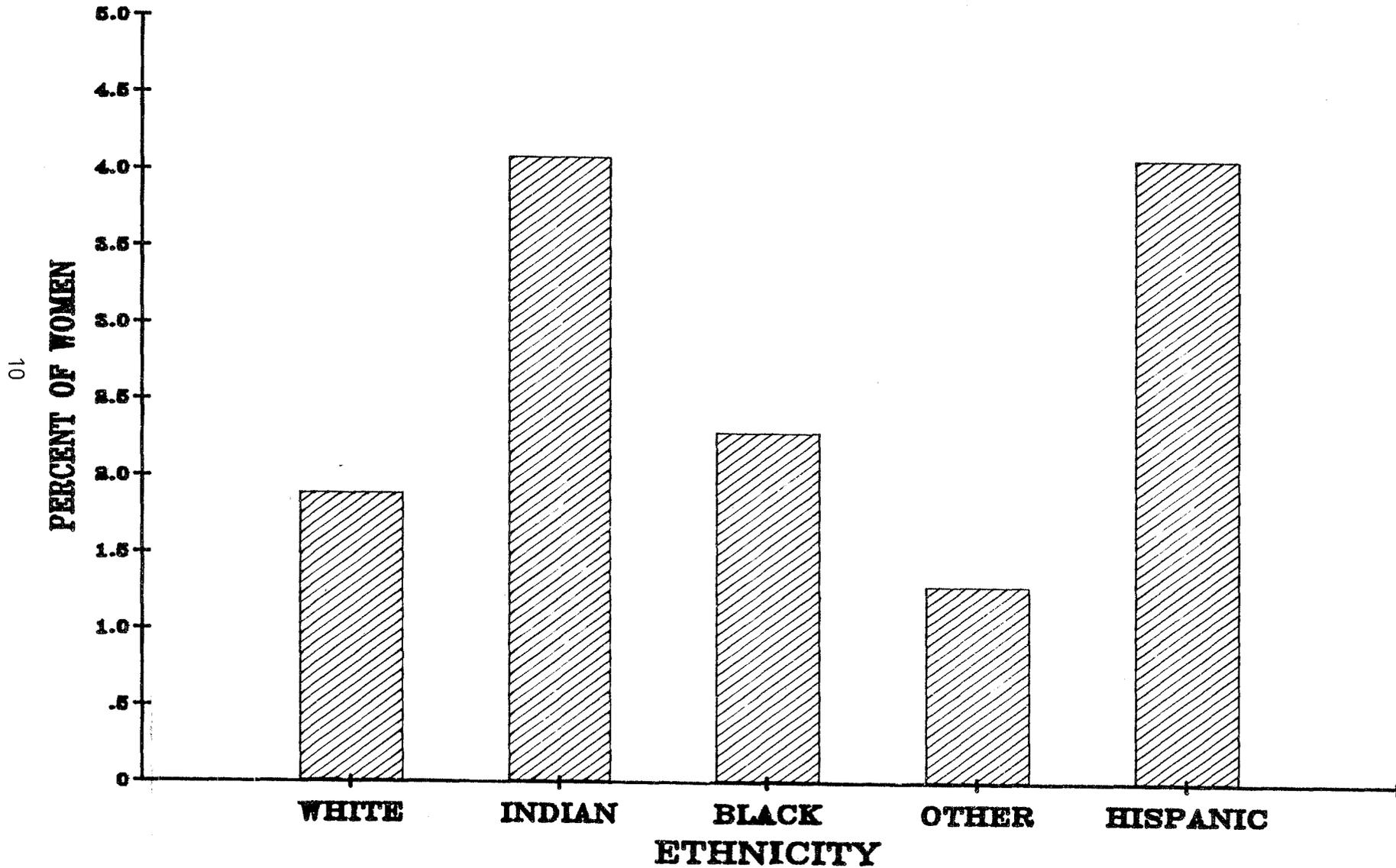


FIGURE 4

MATERNAL ETHNICITY, ARIZONA, 1984

1 - 4 PRENATAL VISITS



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TABLE 6
NUMBER AND PERCENTAGE OF WOMEN RECEIVING
INADEQUATE PRENATAL CARE BY MATERNAL ETHNICITY
ARIZONA, 1984

<u>Prenatal Visits</u>		ETHNICITY				
		<u>White</u>	<u>Indian</u>	<u>Black</u>	<u>Other</u>	<u>Hispanic*</u>
None	#	898	213	44	9	605
	%	1.9	4.1	2.3	1.3	4.1
1-4	#	2,573	730	153	4.3	1,390
	%	5.5	14.1	8.0	6.3	9.5
Under 5	#	3,471	943	197	52	1,995
	%	7.4	18.2	10.3	7.6	13.6

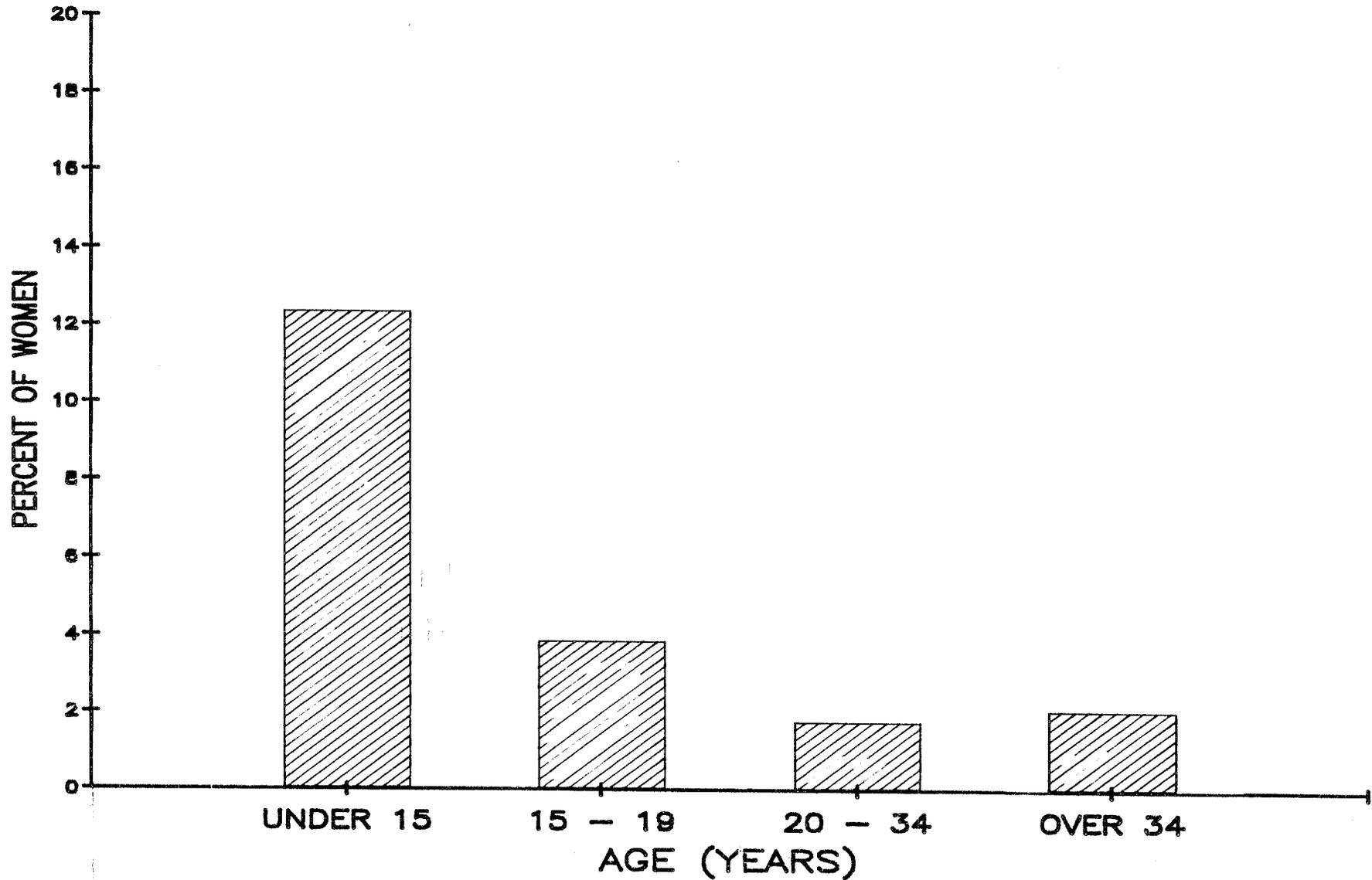
* Hispanic also included in all other ethnic groups
 % = Percent of women in each ethnic group who received specific level of care
 Source: 1984 Arizona birth certificates

MATERNAL AGE

In general, teenagers tend to be at greatest risk for receiving inadequate prenatal care. Young teenagers (under age 15) were the age group with the highest proportion receiving no prenatal care (12.4%) as can be seen in Figure 5 and Table 7. The next age group with a significant proportion receiving no care was teenagers 15-19 years of age (3.9%). Teens under 15 years were almost 7 times more likely (compared to mothers 20-34) and over 3 times more likely (compared to older teens) to receive no care. The older teens were over twice as likely to receive no care as compared to the age group 20-34. Similarly, teens were twice as likely to receive only 1-4 prenatal visits as compared to older mothers. Figures 5, 6, and Table 7. County specific data are available in Tables I & J.

FIGURE 5

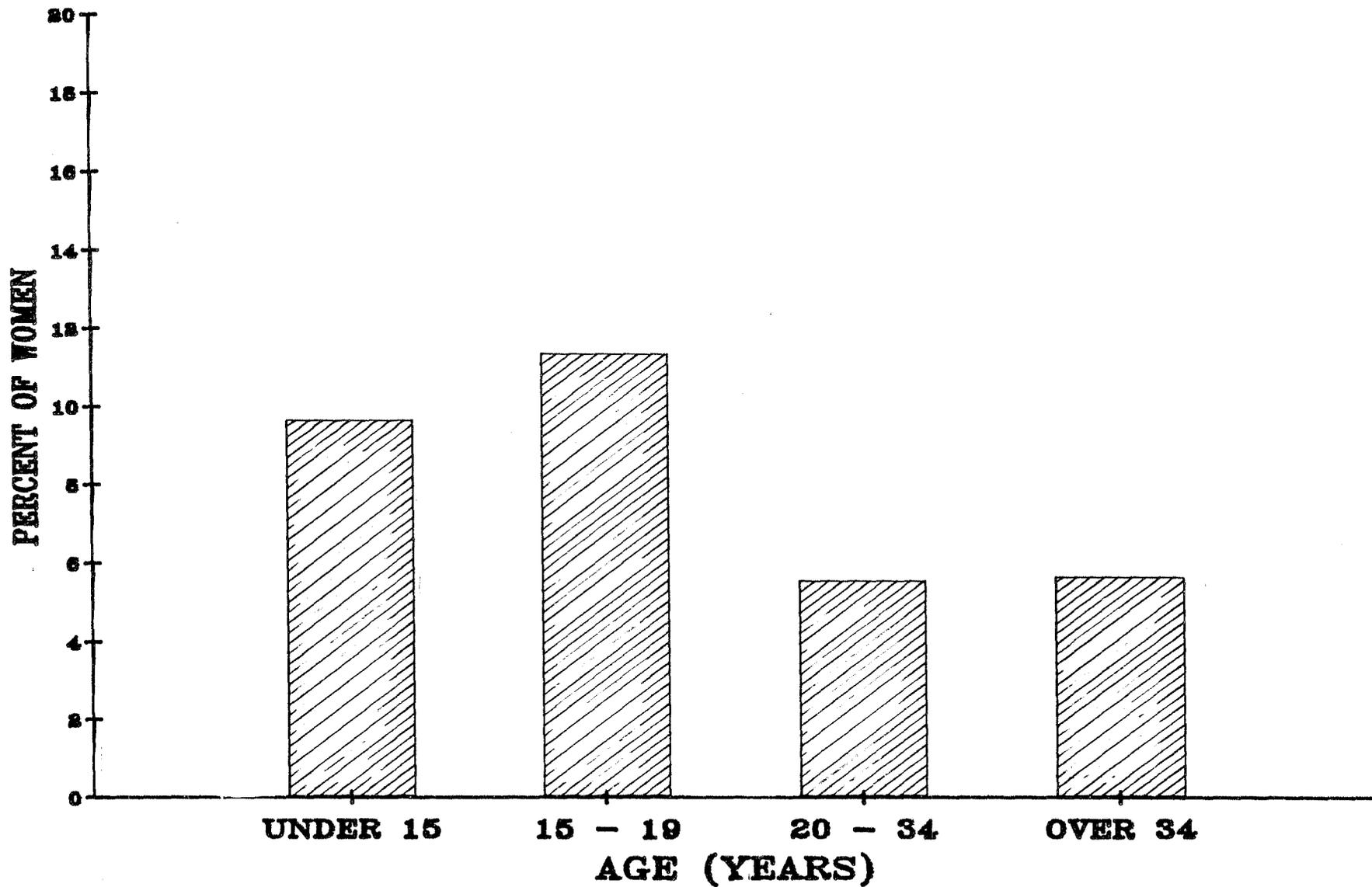
MATERNAL AGE, ARIZONA, 1984 NO PRENATAL VISITS



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FIGURE 6

MATERNAL AGE, ARIZONA, 1984 1 - 4 PRENATAL VISITS



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TABLE 7
NUMBER AND PERCENTAGE OF WOMEN RECEIVING
INADEQUATE PRENATAL CARE BY MATERNAL AGE
ARIZONA, 1984

<u>PRENATAL VISITS</u>		<u>UNDER 15</u>	<u>15-19</u>	<u>20-34</u>	<u>OVER 34</u>
None	#	14	290	796	65
	%	12.4	3.9	1.8	2.1
1-4	#	11	855	2,453	180
	%	9.7	11.4	5.6	5.7
Under 5	#	25	1,145	3,249	245
	%	22.1	15.3	7.4	7.8

% = Percent of women in each age group who received specific level of care
Source: 1984 Arizona birth certificates

MATERNAL MARITAL STATUS

Unwed mothers were much more likely to receive little or no prenatal care. They were 3 1/2 times more likely to receive no prenatal care, and almost 3 times as likely to receive only 1-4 visits, as married mothers. Table 8. County specific data are available in Tables K and L.

TABLE 8
NUMBER AND PERCENTAGE OF WOMEN RECEIVING INADEQUATE
PRENATAL CARE BY MATERNAL MARITAL STATUS
ARIZONA, 1984

<u>PRENATAL VISITS</u>		<u>UNWED</u>	<u>WED</u>
None	#	606	560
	%	4.7	1.3
1-4	#	1,644	1,855
	%	12.9	4.4
Under 5	#	2,250	2,415
	%	17.6	5.7

% = Percent of women of each marital status who received specific level of care

Source: 1984 Arizona birth certificates

BIRTH WEIGHT

Low birth weight (LBW), defined as an infant born weighing less than 2500 grams (5.5 pounds), is a major cause of infant mortality and morbidity. Very low birth weight (VLBW) infants (under 1500 grams) are at greater risk for complications or death. Women who deliver LBW infants are much more likely to have received inadequate prenatal care, to be of minority status, or to be a teenager.

TRENDS

The rate of LBW decreased steadily between 1970 and 1982, with a significant increase since. Figure 7. Table 9 and Figures 8 and 9 focus on the five year period 1980 to 1984 and show that since 1980 both the number of LBW infants and the rate of LBW demonstrate similar trends. The rate reached a low in 1982, and increased in each year since, much as was seen for levels of inadequate prenatal care. The lowest VLBW rate was experienced in 1981, and since then the rate has increased by 17%, while the LBW rate has increased by 5%. County specific data are available in Tables M and N.

The LBW rate varies by county of residence with Cochise, Yavapai, and Maricopa having the highest rates. The majority of the increase in the rates and absolute number of LBW infants can be attributed to significant increases in Maricopa County.

FIGURE 7

LOW BIRTH WEIGHT RATE ARIZONA, 1970 - 1984

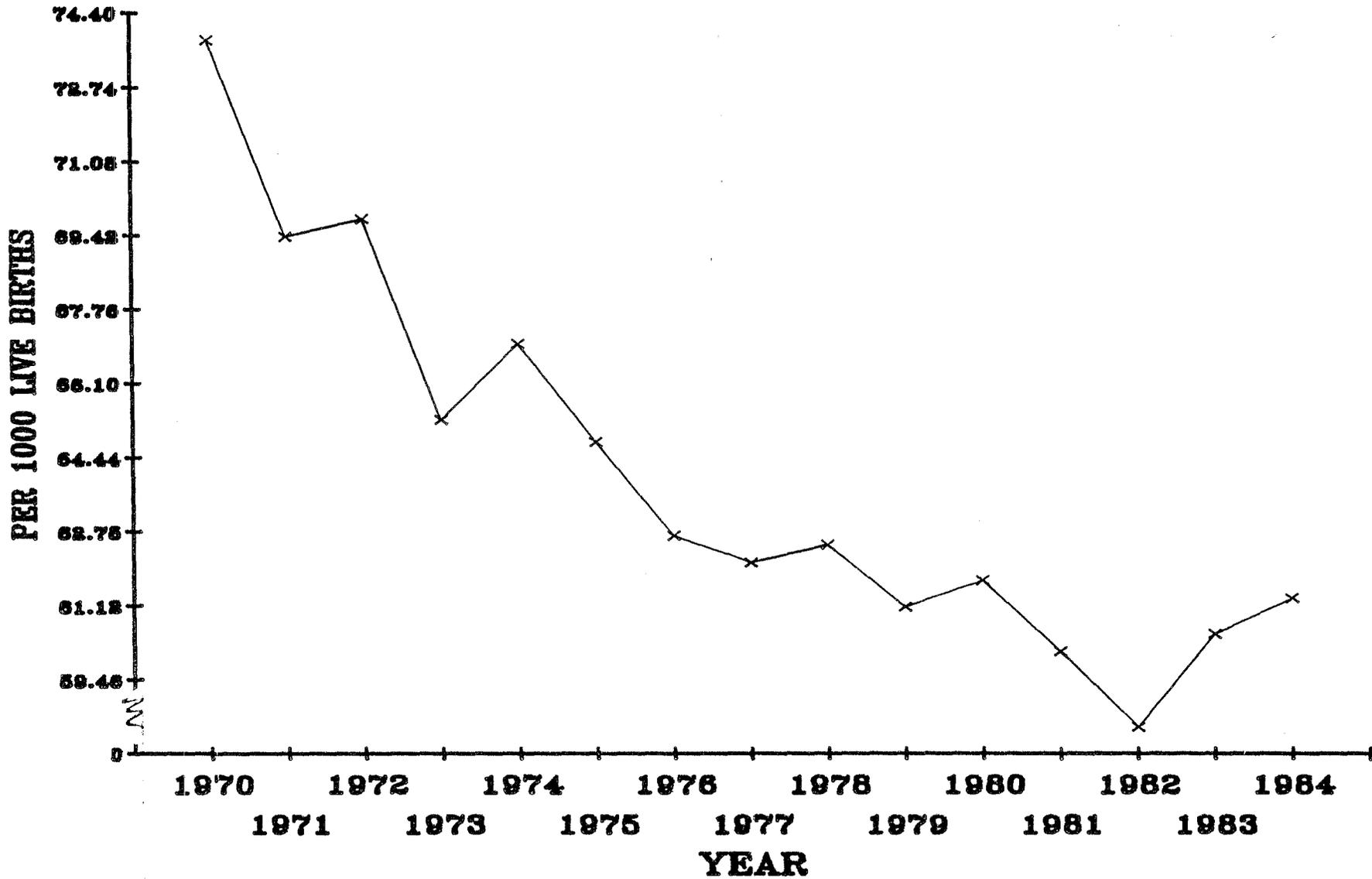
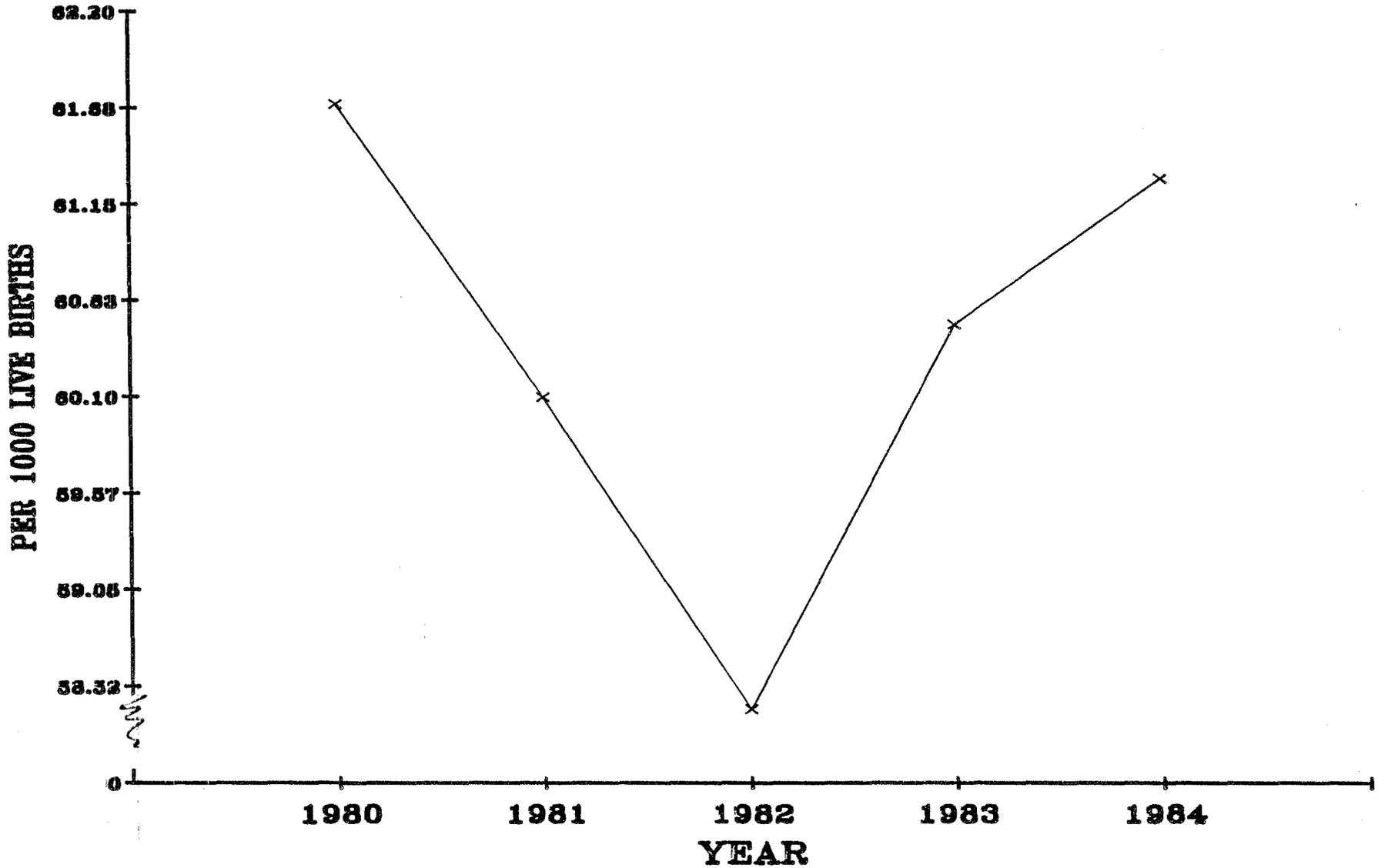


FIGURE 8

LOW BIRTH WEIGHT RATE ARIZONA, 1980 - 1984



19

FIGURE 9

NUMBER OF LOW BIRTH WEIGHT BIRTHS ARIZONA, 1980 - 1984

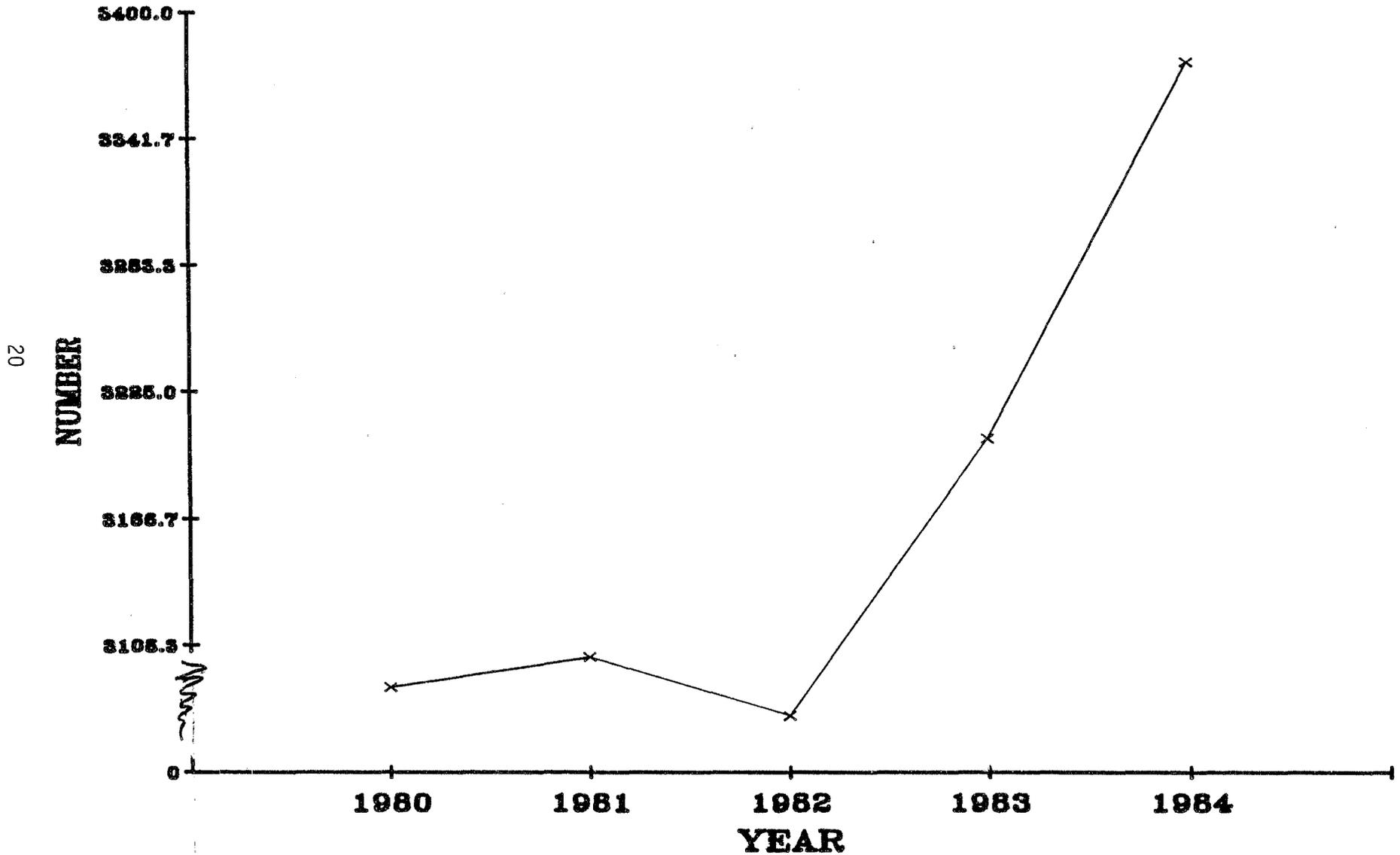


TABLE 9
LOW BIRTH WEIGHT
ARIZONA, 1980-1984

<u>BIRTH WEIGHT</u> (grams)		<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>
Under 1500 ¹⁾	#	448	426	469	514	527
	Rate	9.0	8.2	8.9	9.7	9.6
1501-2500 ¹⁾	#	2,635	2,650	2,634	2,690	2,850
	Rate	52.6	51.3	50.0	50.8	51.7
Under 2501 ²⁾	#	3,089	3,103	3,076	3,204	3,378
	Rate	61.7	60.1	58.4	60.5	61.3

Rate per 1,000 live births
 Source: 1) Unpublished ADHS data
 2) Arizona Vital Statistics, 1984

PRENATAL CARE

The mother with no prenatal care was almost five times more likely to have a VLBW baby as the mother with adequate care; the odds improved slightly if she made 1-4 visits (34.4/1,000 and 30.3/1,000 respectively, compared to 7.5/1,000 for mothers with adequate care). The mother with no prenatal care had twice the chance of having a baby weighing 1501-2500 grams as the mother who had adequate care. Again, the odds improved if she had 1-4 visits (94.5/1,000 and 78.7/1,000 respectively, compared to 48.7 for mothers with adequate care).

Finally, the mother with no prenatal care was two and one-half times more likely to have a LBW baby as the mother with adequate care. Figures 10, 11, Table 10.

FIGURE 10

VERY LOW BIRTH WEIGHT RATE
(under 1500 grams)
ARIZONA, 1984

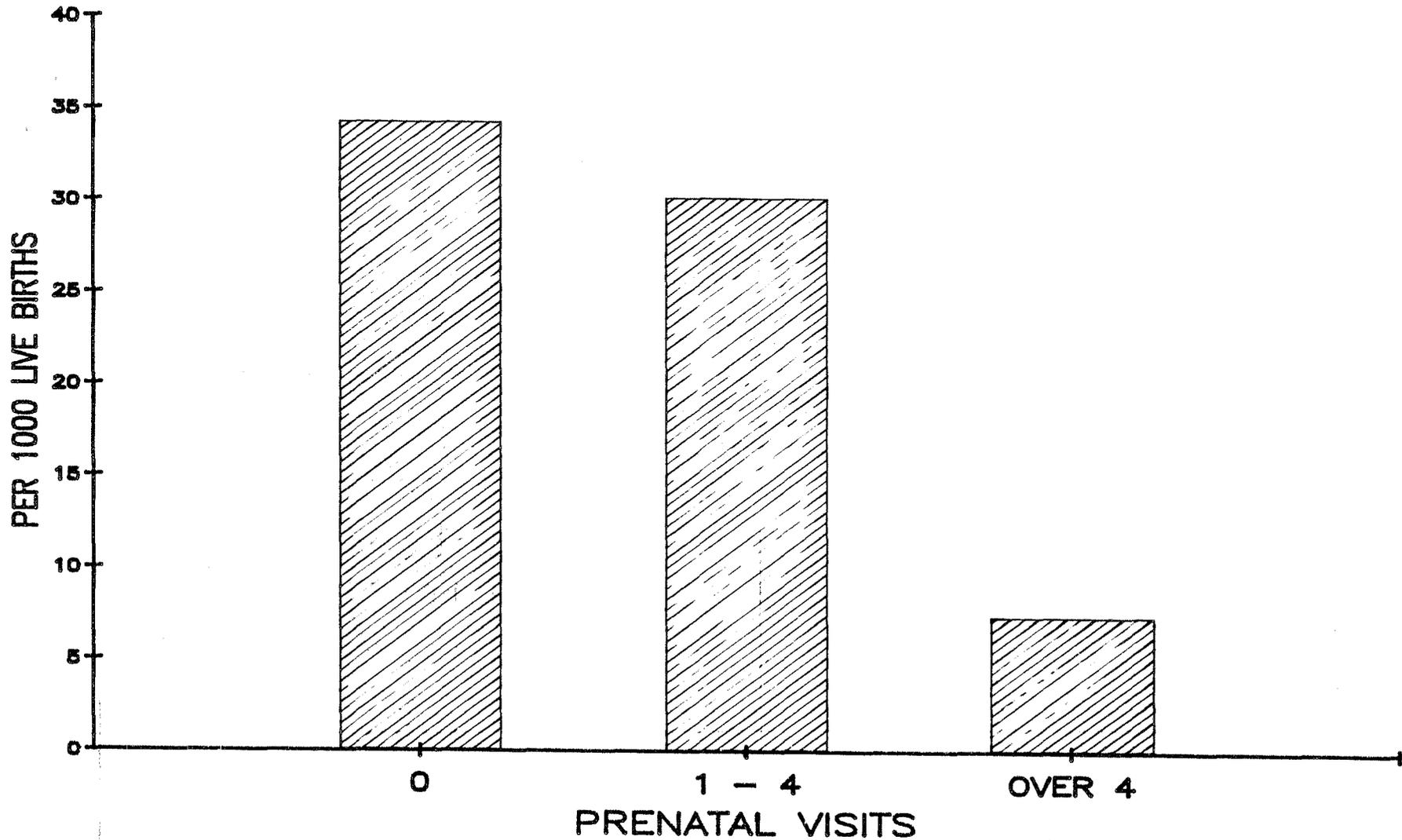
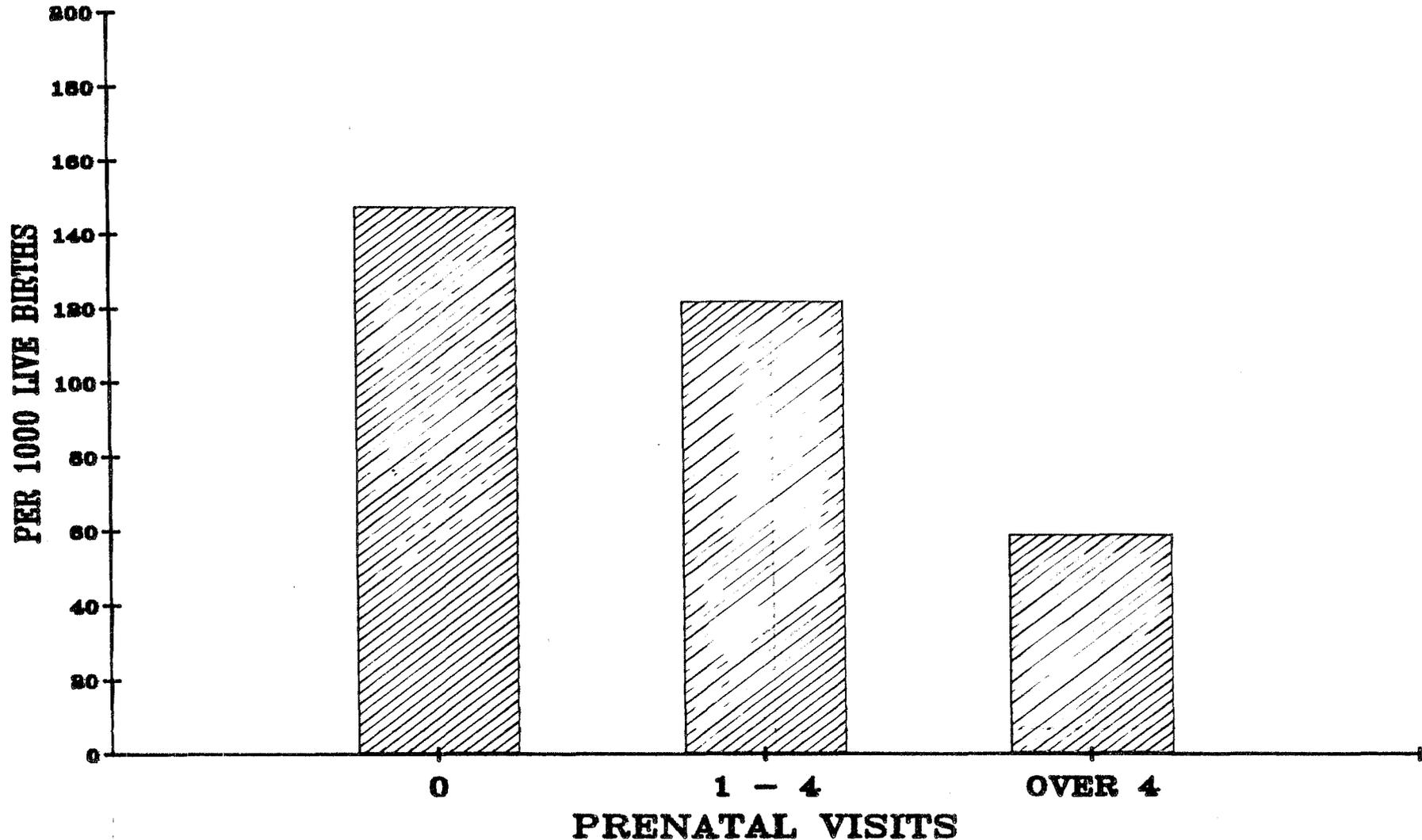


FIGURE 11

LOW BIRTH WEIGHT RATE (under 2500 grams) ARIZONA, 1984



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TABLE 10
RATE OF LOW BIRTH WEIGHT
BY PRENATAL VISITS
Arizona, 1984

<u>BIRTH WEIGHT</u> (Grams)	<u>NONE</u>	<u>1-4</u>	<u>0-4</u>	<u>Over 4</u>
Under 1500 #	40	106	146	377
Rate	33.9	30.3	31.1	7.5
1501-2500 #	110	275	385	2,446
Rate	93.1	78.4	82.1	48.5
Under 2501 #	150	381	531	2823
Rate	127.0	108.6	113.2	56.0

Rate = Number of babies in specific birth weight group per 1000 live births in each prenatal care group.

Source: Preliminary Arizona Vital Statistics 1984

Examining birth weight specific rates by trimester of entry into care does not show the same relationship as the comparison of the number of visits and birth weight. The rate of LBW infants (under 2500 grams) does not change significantly when reviewing each trimester.⁴⁾ Upon examining the 1500-2500 weight group, there does appear to be a slight increase in the rate when women enter care in the third trimester (58/1,000 vs 50/1,000 in the first and second trimester). Table 11.

4) This finding is inconsistent with the number of prenatal visit data discussed above and may relate to some reporting inaccuracies of entry into care on the birth certificate.

TABLE 11
BIRTH WEIGHT RATE AND
TRIMESTER OF ENTRY INTO PRENATAL CARE
Arizona, 1984

<u>BIRTH WEIGHT</u> (Grams)	<u>FIRST</u>	<u>SECOND</u>	<u>THIRD</u>
Under 1500 Rate	10	7	4
1500-2500 Rate	50	50	58
Under 2501 Rate	60	57	62

Rate = Number of births in specific birth weight group per 1000 live births in trimester category.

Source: Unpublished ADHS data.

MATERNAL AGE AND ETHNICITY

In 1984, Blacks had the highest rate of VLBW babies (23.5/1,000). This was over twice as high as the VLBW rate for Hispanics (10.8/1,000) and three times higher than the rate for American Indians, the group with the lowest rate (7.4/1,000). Blacks also had the highest LBW rate (122.9/1,000), again over twice as high as the next group, Hispanics (61.0/1,000) and 2 1/2 times higher than American Indians (50.9/1,000). Table 12.

In general, young teens and mothers over age 34 tend to have the higher rate of LBW infants. Young teens (under 15) had the highest VLBW rate (36.4/1,000). This was twice as high as the rate for teen mothers age 15-17, the next highest group (16.1/1,000). Mothers over 34 had the third highest VLBW rate (13.0/1,000). The LBW rate was again highest for the young teen mothers (127.3/1,000) and teens 15-17 (79.2/1,000). Mothers 20-34 had the lowest LBW rate, while older teen mothers (18-19) had the lowest VLBW rate. Table 13.

TABLE 12
LOW BIRTH WEIGHT BY MATERNAL ETHNICITY
ARIZONA, 1984

<u>BIRTH WEIGHT</u> (Grams)		ETHNICITY				
		<u>WHITE*</u>	<u>INDIAN</u>	<u>BLACK</u>	<u>OTHER</u>	<u>HISPANIC</u>
Under 1500	#	301	39	45	10	133
	Rate	8.6	7.4	23.5	14.6	10.8
1501-2500	#	1,776	229	191	38	616
	Rate	50.8	43.5	99.4	55.6	50.2
Under 2501	#	2,077	268	236	48	749
	Rate	59.4	50.9	122.9	70.2	61.0

* Excludes Hispanic

Rate = Number of births by weight group per 1,000 live births in each specific ethnic group.

Source: Arizona Vital Records

TABLE 13
LOW BIRTH WEIGHT BY MATERNAL AGE
ARIZONA, 1984

<u>BIRTH WEIGHT</u> (Grams)		<u>UNDER 15</u>	<u>15-17</u>	<u>18-19</u>	<u>20-34</u>	<u>OVER 34</u>
		Under 1500	#	4	42	37
	Rate	36.4	16.1	7.6	9.1	13.0
1501-2500	#	10	165	309	2,181	185
	Rate	90.9	63.1	63.1	49.2	58.7
Under 2501	#	14	207	346	2,585	226
	Rate	127.3	79.2	70.7	58.3	71.7

Rate = Number of births by weight group per 1,000 live births in each specific maternal age group.

Source: Arizona Vital Records

MATERNAL AGE, ETHNICITY AND PRENATAL VISITS

To avoid the problems involved with analyzing small number data sets, five years of data were grouped and analyzed. The percentage of low birth weight babies born during the period from 1980 through 1984 varied according to the number of maternal prenatal visits, maternal race, and age. The number of prenatal visits showed the strongest relationship to birth weight and maternal age the least. Table 0.

For the five-year period, the proportion of LBW babies was highest for mothers with no prenatal care and 1-4 visits. Within these care groups, Blacks had the highest proportion of LBW babies (27.7% and 18.7% respectively), as did mothers over 34 (16.8% and 12.6% respectively) and under 18 (21.2% and 13.1%, respectively). Tables 14 and 15, Figure 12.

Regardless of number of prenatal visits, American Indians and Whites had the lowest proportion of LBW babies (5.5% and 5.9% respectively); Blacks had the highest (12.0%). Similarly, mothers under 18 and over 34 had the highest proportions of LBW babies (8.5% and 6.7%, respectively).

TABLE 14
PERCENTAGE OF LOW BIRTH WEIGHT BY PRENATAL VISITS
AND MATERNAL ETHNICITY
ARIZONA, 1980-1984

<u>ETHNICITY</u>	<u>NUMBER OF PRENATAL VISITS</u>			
	<u>NONE</u>	<u>1-4</u>	<u>OVER 4</u>	<u>ALL BIRTHS</u>
	(percentage)			
White	15.1	11.9	5.4	5.9
Indian	13.3	8.3	4.4	5.5
Black	27.7	18.7	11.0	12.0
Other	24.4	14.5	5.2	6.0
Hispanic	13.1	8.9	5.6	6.2
Total	15.3	11.4	5.5	6.0

% = proportion of women giving birth to babies weighing under 2500 grams in each ethnic and specific level of care group

Source: Arizona Vital Records

FIGURE 12

LBW, ETHNICITY, AND PRENATAL VISITS ARIZONA, 1980 - 1984

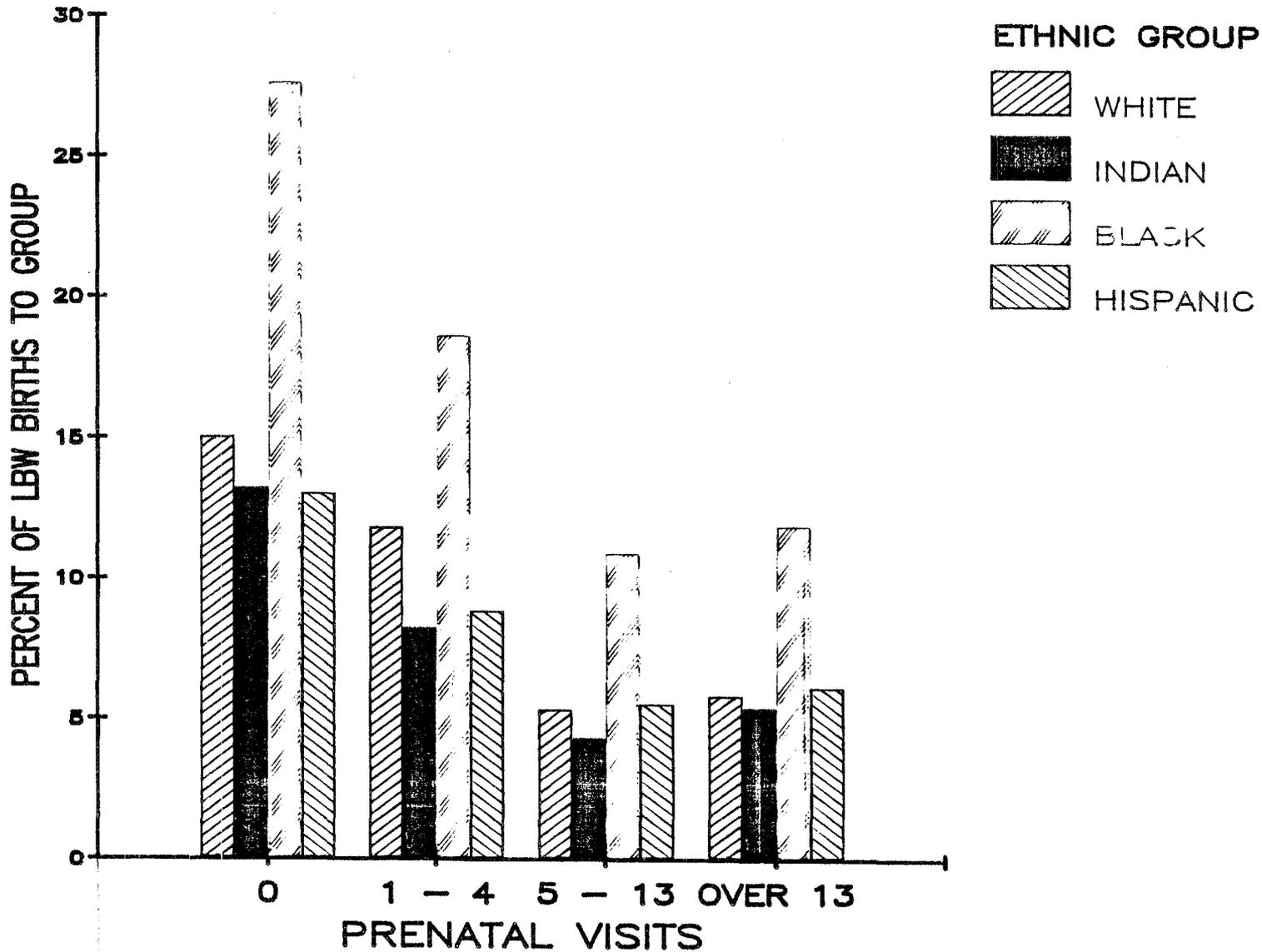


TABLE 15
PERCENTAGE OF LOW BIRTH WEIGHT BY
PRENATAL VISITS AND MATERNAL AGE
Arizona, 1980-1984

<u>AGE</u>	<u>NUMBER OF PRENATAL VISITS</u>			<u>ALL BIRTHS</u>
	<u>NONE</u>	<u>1-4</u> (Percentage)	<u>OVER 4</u>	
Under 18	21.2	13.1	7.2	8.5
18-24	14.6	11.5	5.7	6.3
25-34	13.6	10.5	5.1	5.4
Over 34	16.8	12.6	6.0	6.7
TOTAL	15.3	11.4	5.5	6.0

% = Proportion of women giving birth to babies weighing under 2500 grams in each age and specific level of care group.
 Source: Arizona Vital Records.

INFANT MORTALITY

The infant mortality rate (the number of infants who die in their first year of life/1,000 live births) and the neonatal mortality rate (the number of infants who die in their first 27 days of life/1,000 live births) are internationally recognized indicators of perinatal health, with low birth weight infants being a major cause of mortality. The neonatal mortality rate is considered a more sensitive indicator of the mother's and baby's status and care during the prenatal period and the immediate postpartum period, while the postneonatal mortality rate (deaths between age one month and one year) is a better indicator of status and care during infancy, and is less influenced by perinatal events. Approximately 60% of infant deaths occur in the neonatal period.

The perinatal mortality rate (number of fetal deaths or still births plus neonatal deaths/1,000 live births) is another sensitive indicator of perinatal care. The fetal death rate is a sensitive indicator of prenatal status and care, and is not influenced by the availability and quality of newborn intensive care. One can utilize the perinatal mortality rate and the ratio of fetal deaths to neonatal deaths to analyze subcomponents of perinatal care.

TRENDS

The infant mortality rate has been decreasing since 1970 (Figure 13) and reached its lowest rate in 1982. The rate of decline appears to be decreasing with an apparent stabilization of the infant mortality rate since 1982. Figures 14, 15 and Table 16 demonstrate that the Arizona infant mortality rate consistently dropped during the period 1980-1984, with a slight rise in 1983. Neonatal mortality demonstrates similar trends. Figures 16, 17, 18 and Table 16. Postneonatal mortality rates decreased between 1980 and 1982 and rose in 1983 and 1984.

TABLE 16
NEONATAL, POSTNEONATAL, AND INFANT MORTALITY
ARIZONA, 1980-1984

		<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>
Neonatal	#	414	381	305	314	305
	Rate	8.3	7.4	5.8	5.9	5.5
Postneonatal	#	205	219	186	195	220
	Rate	4.1	4.2	3.5	3.7	4.0
Infant	#	619	600	491	509	525
	Rate	12.4	11.6	9.3	9.6	9.5

Rates = Deaths per 1000 live births.
Source: Arizona Vital Records

PLACE OF MOTHER'S RESIDENCE

There is significant variation in mortality rates dependent on county of residence. Average mortality rates for 1982-1984 are displayed in Table 17. The neonatal mortality rate varies from a low of 4.1 in Santa Cruz County to 11.0 in Greenlee County and the infant mortality varies from 6.8 in Santa Cruz to 20.9 in La Paz. The two urban counties, Maricopa and Pima, have rates which are identical to (neonatal) or below (postneonatal and infant) the state average.

FIGURE 13

INFANT MORTALITY RATE ARIZONA, 1970 - 1984

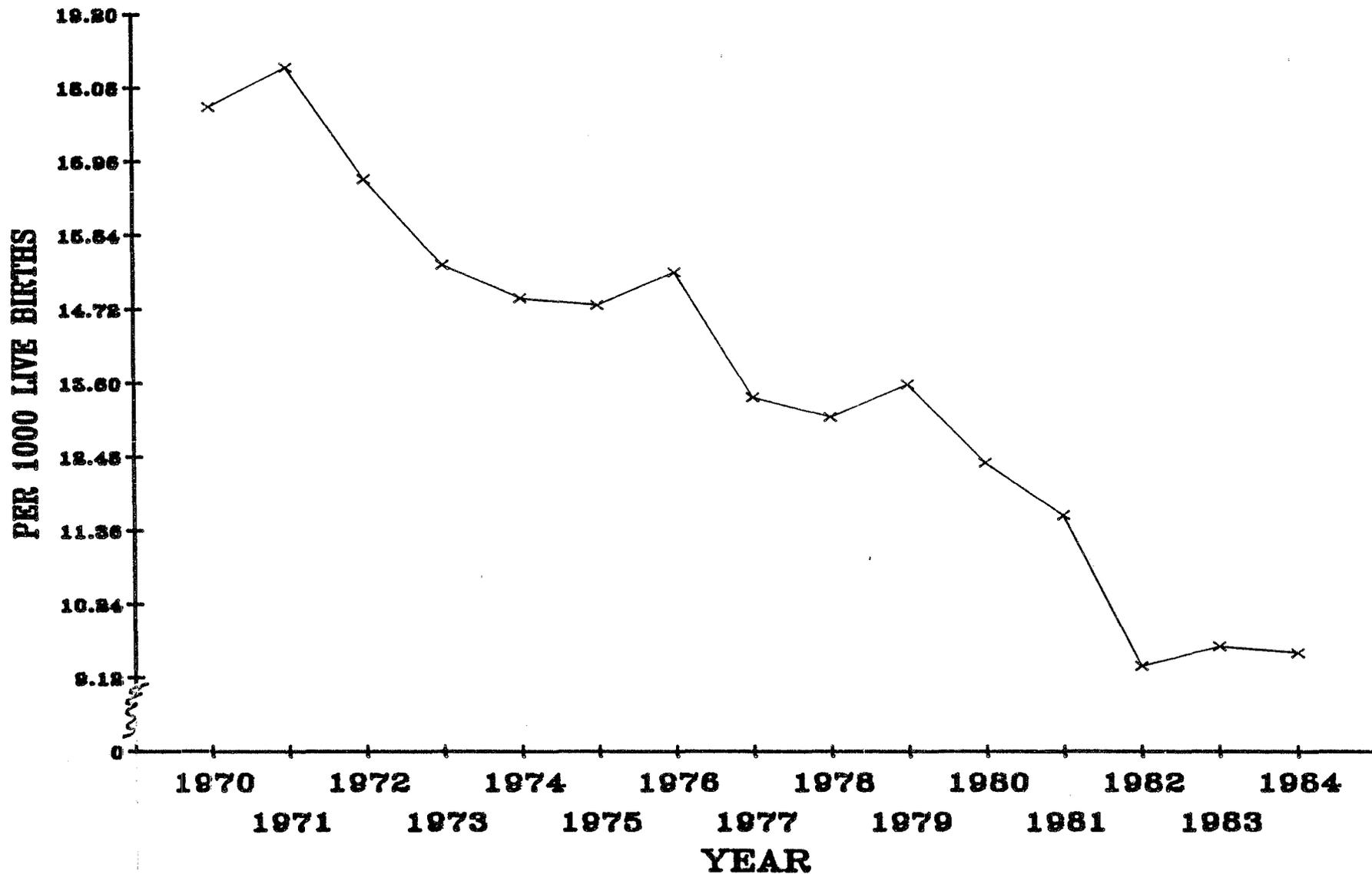


FIGURE 14

INFANT MORTALITY RATE ARIZONA, 1980 - 1984

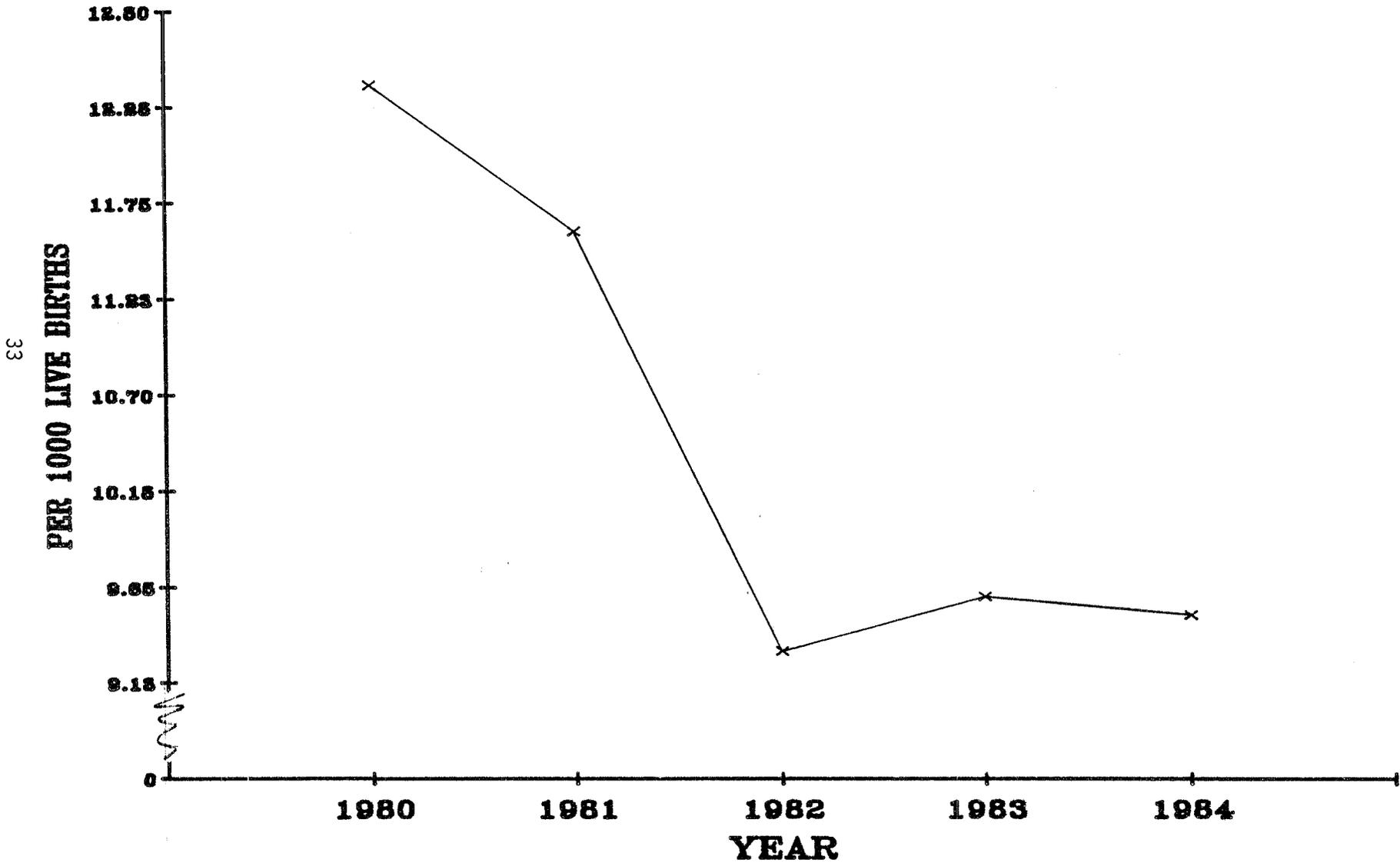


FIGURE 15

NUMBER OF INFANT DEATHS ARIZONA, 1980 - 1984

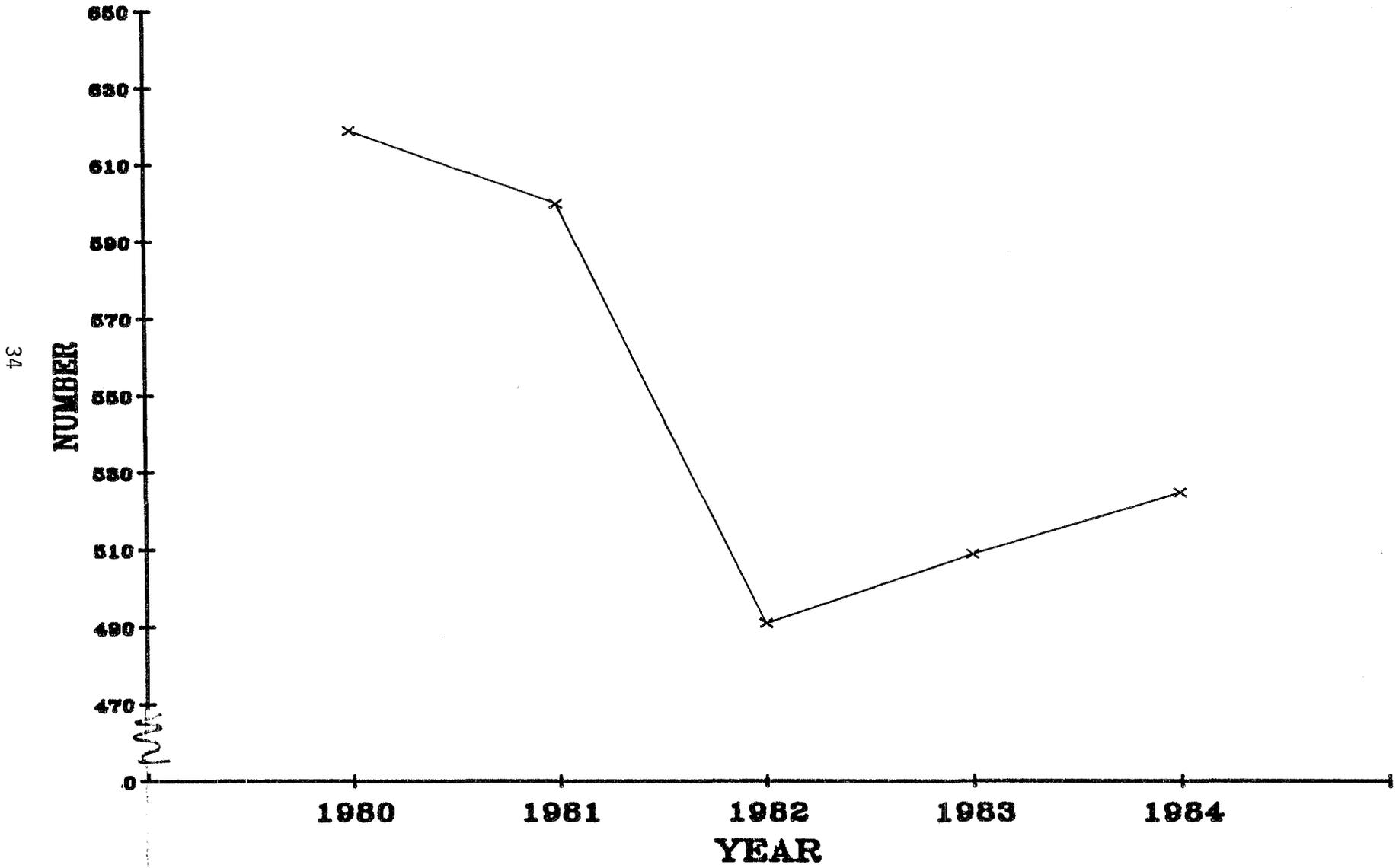


FIGURE 16

NEONATAL MORTALITY RATE ARIZONA, 1970 - 1984

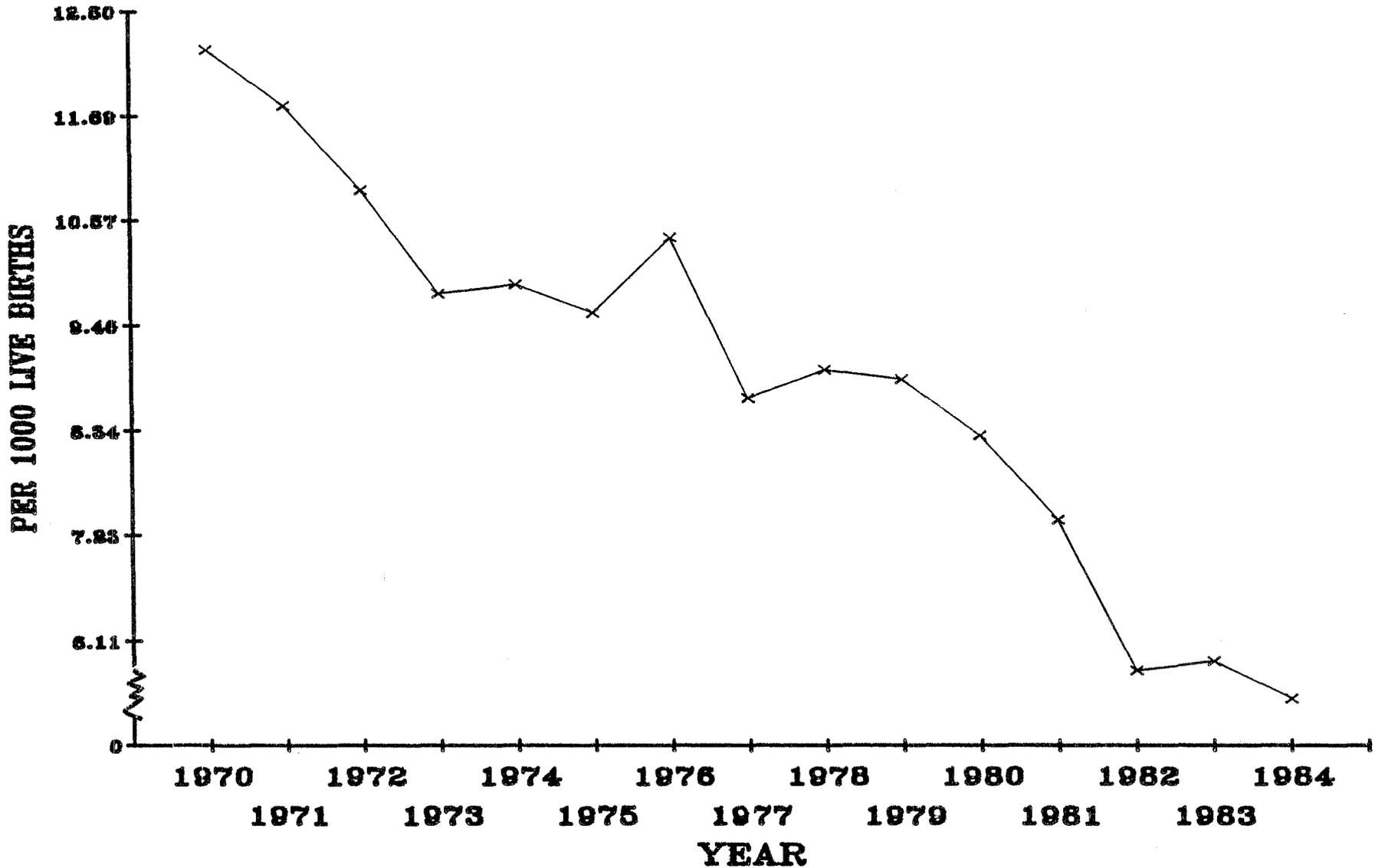


FIGURE 17

NEONATAL MORTALITY RATE ARIZONA, 1980 - 1984

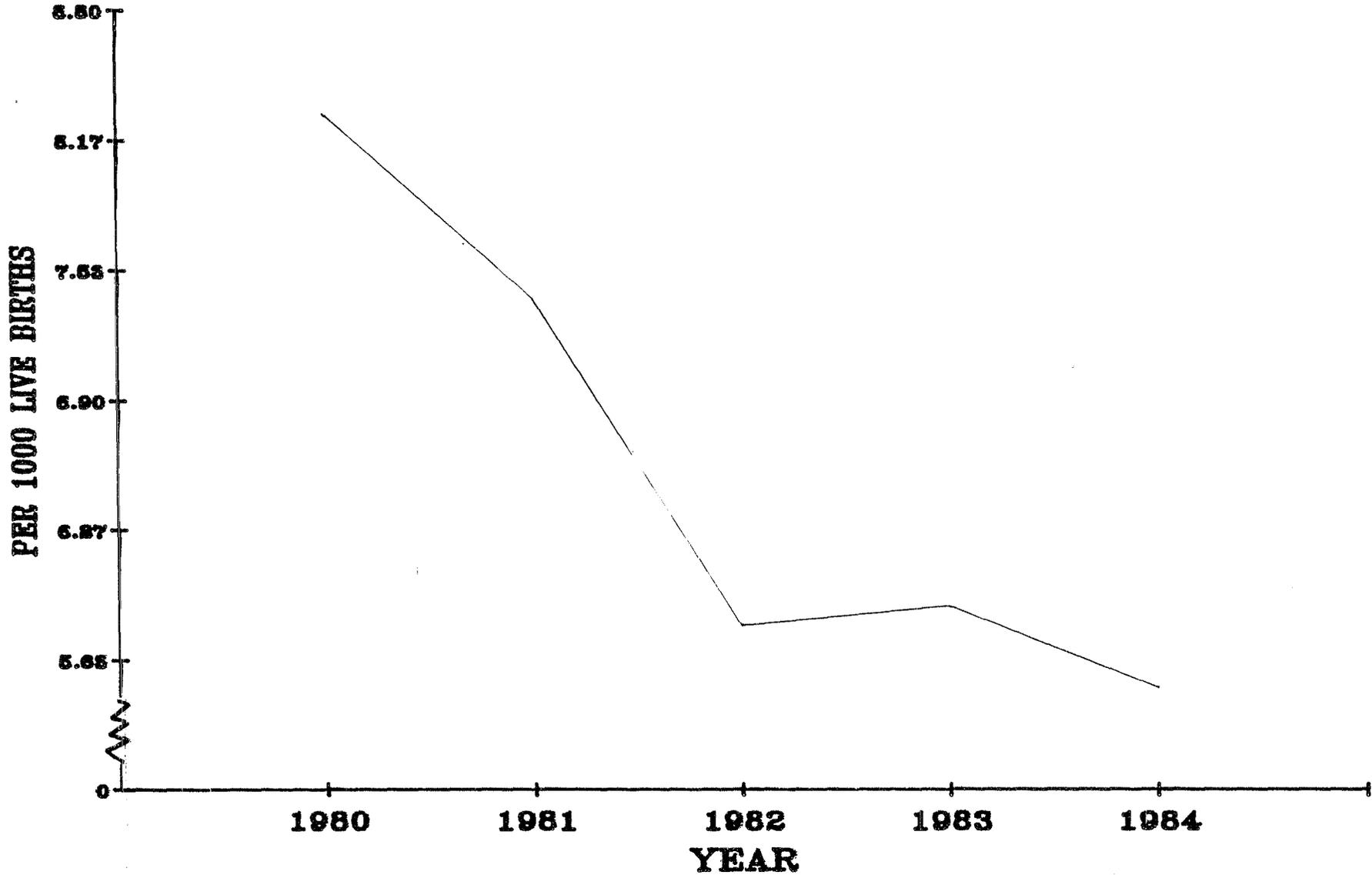


FIGURE 18

NUMBER OF NEONATAL DEATHS ARIZONA, 1980 - 1984



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TABLE 17
THREE YEAR AVERAGE MORTALITY
RATES BY COUNTY
Arizona, 1982-1984

<u>COUNTY</u> ¹⁾	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	<u>NUMBER</u>	<u>RATE</u>	<u>NUMBER</u>	<u>RATE</u>	<u>NUMBER</u>	<u>RATE</u>
GREENLEE	7	11.0	0	0	7	11.0
LAPAZ	4	9.3	5	11.6	9	20.9
COCHISE	38	8.0	19	4.0	57	12.0
PINAL	34	6.0	29	5.1	63	11.1
GRAHAM	8	5.9	6	4.4	14	10.4
MARICOPA	512	5.8	292	3.3	804	9.1
PIMA	165	5.8	95	3.3	260	9.1
YAVAPAI	18	5.8	14	4.5	32	10.3
MOHAVE	15	5.4	13	4.6	28	10.0
COCONINO	28	5.2	26	4.8	54	10.0
YUMA	28	5.2	14	2.6	42	7.9
GILA	11	5.1	10	4.6	21	9.7
APACHE	26	4.8	40	7.3	66	12.1
NAVAJO	25	4.4	34	6.0	59	10.4
SANTA CRUZ	6	4.1	4	2.7	10	6.8
TOTAL	887	5.8	563	3.7	1450	9.5

Rate = Deaths per 1000 live births
Source: Arizona linked birth/death certificates

1) Counties ranked by neonatal mortality rate

PRENATAL CARE

There is a clear inverse relationship between the number of prenatal visits and neonatal/infant mortality rates; ie: women who receive an adequate number of prenatal visits experience lower mortality rates.

For babies whose mothers had no prenatal care, the neonatal death rate was almost five times as high as for those whose mothers had 5-14 prenatal visits. The same relationship existed for babies of mothers who had 1-4 prenatal visits, although the relative risk dropped to four. Tables 18 and P.

TABLE 18
INFANT MORTALITY - PRENATAL VISITS
ARIZONA, 1984

VISITS	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
0	23	19.4	9	7.6	32	27.1
1-4	66	18.8	28	7.9	94	26.7
Less than 5	89	19.0	37	7.9	126	26.9
5-14	183	4.2	136	3.1	319	7.3
Greater than 14	16	2.4	13	2.0	29	4.4
Unknown	17	N/A	34	N/A	51	4.4
TOTAL	305	5.5	220	4.0	525	9.5

Rate = Number of deaths per 1,000 live births in each prenatal care group
Source: Arizona Vital Records

In 1984, there was little difference in the infant mortality rate regardless of trimester of mother's entry into care. However, there was a trend of decreasing infant mortality rates with later entry into care. It was only during the neonatal period that the death rate increased with later entry into care. This reversal in the expected trend in infant mortality appears to be linked to deaths in the postneonatal period. Tables 19, P.

To further analyze this finding, trimester of entry into care was subdivided into women who received 1-4 prenatal visits and women who received over 4 prenatal visits. It is clear that neonatal and infant mortality rates are significantly higher for women who receive 1-4 visits as contrasted to women who receive adequate care, regardless of trimester of entry. Women who report entering care in the first trimester, but receive only 1-4 prenatal visits, have the highest mortality rates of any subgroup. The explanation for this finding is unclear.

TABLE 19
INFANT MORTALITY - PRENATAL
VISITS AND TRIMESTER OF ENTRY INTO CARE
Arizona, 1984

<u>TRIMESTER</u>	<u>NEONATAL</u>	<u>POSTNEONATAL</u>	<u>INFANT</u>
<u>FIRST</u>			
1-4 Visits	10.5	60.2	70.8
Over 4 visits	2.7	4.5	7.6
TOTAL	2.8	5.5	8.3
<u>SECOND</u>			
1-4 Visits	6.5	21.7	28.3
Over 4 visits	3.4	2.6	6.0
TOTAL	3.7	4.2	7.9
<u>THIRD</u>			
1-4 Visits	6.0	3.2	9.2
Over 4 visits	3.9	2.0	5.9
TOTAL	5.0	2.7	7.7

Rate = Number of deaths per 1,000 live births in each level of care group
Source: Arizona linked birth/death Certificates

BIRTH WEIGHT

In 1984, the LBW baby had a neonatal death rate almost 35 times higher than that for the baby weighing over 2500 grams. The VLBW baby had a rate 183 times higher. During the postneonatal period the relative risk of death for the LBW baby was 5 times that of the normal birth weight baby. The infant death rate for the LBW baby was 15 times higher than that of a normal birth weight baby. Low birth weight babies accounted for slightly over 50% of the infant deaths and 70% of the neonatal deaths. Table 20, Q.

TABLE 20
INFANT MORTALITY BY BIRTH WEIGHT
ARIZONA, 1984

<u>WEIGHT</u> (grams)		<u>NEONATAL</u>	<u>POSTNEONATAL</u>	<u>INFANT</u>
Under 1500	#	174	20	194
	Rate	330.2	38.0	368.1
1501-2500	#	38	35	73
	Rate	13.4	12.3	25.6
Under 2501	#	212	55	267
	Rate	62.7	16.3	79.0
Over 2500	#	93	165	258
	Rate	1.8	3.2	5.0

Rate = Number of deaths per 1,000 live births in each specific weight group
Source: Arizona Vital Records

MATERNAL AGE

The babies of mothers under age 15 experienced the highest neonatal, postneonatal and infant death rates, with the neonatal death rate almost 2 1/2 times as high as the 15-17 years old and four times as high as the rate for older age groups. During the postneonatal period, the death rate for babies of mothers under 15 years of age was four times as high as for infants of the 15-17 year old mothers. The infant death rate for babies of the under 15 mothers was over 4 times that for the 18-19 and 20-34 year old mothers. In general, women age 18 and older tend to have the lowest neonatal and infant death rates. Tables 21 and R.

TABLE 21
INFANT MORTALITY BY MATERNAL AGE
ARIZONA, 1984

<u>MATERNAL AGE</u> (Years)		<u>NEONATAL</u>	<u>POSTNEONATAL</u>	<u>INFANT</u>
Under 15	#	2	2	4
	Rate	18.2	18.2	36.4
15-17	#	20	12	32
	Rate	7.7	4.5	12.1
18-19	#	22	22	44
	Rate	4.4	4.4	8.8
20-34	#	231	149	380
	Rate	5.2	3.4	8.6
Over 34	#	24	17	41
	Rate	8.5	5.4	13.9

Rate = Number of deaths per 1,000 live births in each maternal age group
Source: Arizona linked birth/death certificates

MATERNAL ETHNICITY

Babies of Black mothers experienced the highest neonatal, postneonatal, and infant death rates. Their neonatal death rate was twice that of the White and Hispanic babies and 2.7 times that of the American Indian babies. During the postneonatal period, American Indian babies died at a rate close to that for Black babies (7.0/1,000 and 8.9/1,000, respectively) whose rate, however, remained 2 to 3 times that for White and Hispanic babies. A relationship similar to the neonatal rate existed for the infant mortality rate. Tables 22, and S.⁵⁾

5) Table S depicts the ethnic specific death rates from linked birth/death certificates, where Hispanic was coded separate from other ethnic groups.

TABLE 22
INFANT MORTALITY BY MATERNAL ETHNICITY
 ARIZONA, 1984

<u>ETHNICITY</u>		<u>NEONATAL</u>	<u>POSTNEONATAL</u>	<u>INFANT</u>
White (including Hispanic)*	#	247	164	411
	Rate	5.3	3.6	8.9
American Indian	#	22	39	61
	Rate	3.9	7.0	10.9
Black	#	25	23	48
	Rate	10.2	9.4	19.5
Other	#	6	2	8
	Rate	7.4	2.5	9.9
Hispanic	#	73	40	113
	Rate	5.3	2.9	8.2

* Will not total 100% because Hispanic included in all other ethnic groups
 Rate = Number of deaths per 1,000 live births in each specific ethnic group
 Source: Arizona linked birth/death certificates

As mentioned in the prior section on infant mortality and birth weight, it is clear that LBW babies contribute to slightly over 50% of the infant deaths. Similarly, deaths are over represented in certain minority groups. Tables 24-27 provide information on fetal, neonatal, postneonatal, and infant mortality by ethnic group and birth weight categories. These birth weight specific death rates seem to indicate that birth weight distribution is the major factor influencing the variation in ethnic specific infant mortality rate, i.e. the birth weight specific mortality rates are similar for each ethnic group.

In Table 23 it can be seen that the LBW specific infant mortality rate was similar for all ethnic groups except for Indians who had a rate one-half that of Whites. Blacks had a LBW specific rate very similar to Whites (as contrasted to the non weight specific rates depicted in Table 22).

To further analyze these trends; Table 24 and 25 should be reviewed. The LBW specific neonatal rates were similar for all ethnic groups except Indians as described for the infant mortality rate. However, the postneonatal rates for Indians and Blacks were higher than the rate for Whites (17/1,000 and 24/1,000 respectively, vs. 16/1,000 for Whites). This rate difference may indicate differential patterns of postneonatal care for these two ethnic groups. Table 27, Weight Specific Fetal Mortality, indicates that Indians had the highest LBW specific fetal mortality rate (93.3/1,000 vs. 77/1,000 for Whites) and that Blacks had the lowest rate (50.8/1,000 vs. 77/1,000 for Whites).

The perinatal death rate was similar for all ethnic groups (except for Blacks with the highest rate of 19.1/1,000). Table 27. The ratio of fetal to neonatal deaths demonstrated some variation between ethnic groups. The majority of perinatal deaths occurred in the fetal period for Indians, while the majority occurred in the neonatal period for Blacks.

TABLE 23
INFANT MORTALITY BY BIRTH WEIGHT
AND MATERNAL ETHNICITY
Arizona, 1984

<u>WEIGHT (GRAMS)</u>		<u>ETHNICITY</u>			
		<u>WHITE</u> (inc hisp.)	<u>INDIAN</u>	<u>BLACK</u>	<u>OTHER</u>
Under 1500	#	157	9	22	4
	Rate	370.3	214.3	423.1	666.7
1501-2500	#	64	4	7	0
	Rate	27.5	15.9	24.8	0.0
Under 2500	#	221	13	29	4
	Rate	80.4	44.2	86.8	83.3
Over 2500	#	172	44	16	2
	Rate	4.0	8.3	7.4	2.6

Rate = Number of deaths by weight group per 1,000 live births in ethnic group
 Source: Arizona Vital Records

TABLE 24
NEONATAL MORTALITY BY BIRTH WEIGHT
AND MATERNAL ETHNICITY
Arizona, 1984

		ETHNICITY			
<u>WEIGHT (GRAMS)</u>		<u>WHITE*</u>	<u>INDIAN</u>	<u>BLACK</u>	<u>OTHER</u>
Under 1500	#	142	7	18	4
	Rate	334.9	166.7	346.2	666.7
1501-2500	#	35	1	3	0
	Rate	15.1	4.0	10.6	0.0
Under 2501	#	177	8	21	4
	Rate	64.4	27.2	162.9	83.3
Over 2500	#	63	13	2	1
	Rate	1.4	2.4	1.0	1.3

* Includes Hispanic

Rate = Number of deaths by weight group per 1,000 live births in each ethnic group

Source: Arizona Vital Records

TABLE 25
POSTNEONATAL MORTALITY BY BIRTH WEIGHT
AND MATERNAL ETHNICITY
 Arizona, 1984

		ETHNICITY			
<u>WEIGHT GRAMS</u>		<u>WHITE*</u>	<u>INDIAN</u>	<u>BLACK</u>	<u>OTHER</u>
Under 1500	#	15	2	4	0
	Rate	35.4	47.6	76.9	0.0
1501-2500	#	29	3	4	0
	Rate	12.5	11.9	14.2	0.0
Under 2501	#	44	5	8	0
	Rate	16.0	17.0	24.0	0
Over 2500	#	109	31	14	1
	Rate	2.5	5.8	6.4	1.3

* Includes Hispanic

Rate = Number of deaths by weight group per 1,000 live births in each ethnic group

Source: Arizona Vital Records

TABLE 26
FETAL MORTALITY BY BIRTH
WEIGHT AND MATERNAL ETHNICITY
 Arizona, 1984

<u>WEIGHT</u>		<u>ETHNICITY</u>				
		<u>WHITE*</u>	<u>INDIAN</u>	<u>BLACK</u>	<u>OTHER</u>	<u>HISPANIC</u>
Under 1500	#	115	14	6	3	22
	Rate	382.1	359.0	133.3	300.0	165.4
1501-2500	#	45	11	6	1	13
	Rate	25.3	48.0	31.4	26.3	21.1
Under 2501	#	160	25	12	4	35
	Rate	77.0	93.3	50.8	83.3	46.7
Over 2500	#	66	17	3	0	21
	Rate	2.0	3.4	1.8	0.0	1.8

* Includes Hispanic

Rate = Number of deaths by weight group per 1,000 live births in each ethnic group
 Source: Arizona Vital Records

TABLE 27
PERINATAL DEATHS RATES
BY ETHNICITY
Arizona, 1984

	ETHNICITY					
	<u>TOTAL</u>	<u>WHITE*</u>	<u>INDIAN</u>	<u>BLACK</u>	<u>OTHER</u>	<u>HISPANIC</u>
Fetal Death Rate	6.7	7.0	8.7	8.9	5.9	4.9
Neonatal Death Rate	5.4	5.3	3.9	10.2	7.4	5.3
Perinatal Death Rate	12.1	12.3	12.6	19.1	13.3	10.2
Fetal Neonatal Ratio	1.24	1.32	2.23	0.87	0.92	0.80

* Includes Hispanic
Rate = Number of deaths per 1,000 live births in each ethnic group

PLURALITY

Plurality appears to be directly related to mortality. The neonatal death rate for twins was almost 7 times that of the singleton's. The postneonatal death rate for twins was almost 4 times that of the singleton's. The infant death rate for twins was almost 8 times higher than that of the singleton's. Tables 28 and T.

TABLE 28
INFANT MORTALITY FOR SINGLE
AND MULTIPLE BIRTHS
ARIZONA, 1984

	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
Single	261	4.8	181	3.3	442	8.1
First twin	16	33.4	6	12.5	22	46.0
Second twin	16	33.7	4	8.4	20	42.2
Other/unknown	12	N/A	29	N/A	41	N/A
TOTAL	305	5.5	220	4.0	525	9.5

Rate = Number of deaths per 1,000 live births in each birth category
Source: Arizona Vital Records

MATERNAL EDUCATION

As the educational level of the mother increased, the rate of neonatal infant death decreased. The lowest rates were reported for babies of mothers with some college education. The postneonatal death rate was lower at all educational levels and decreased as the level of the mother's education increased. Tables 29 and U.

TABLE 29
INFANT MORTALITY - MATERNAL EDUCATION
ARIZONA, 1984

<u>MATERNAL EDUCATION</u> (Years)	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
1-8	25	6.9	17	4.5	42	11.5
9-12	183	5.9	133	4.1	316	10.1
13-16	69	4.3	38	2.2	107	6.6
Over 16	10	4.4	2	0.1	12	4.5
Unknown	18	N/A	30	N/A	48	N/A
Total	305	5.5	220	4.0	525	9.5

Rate = Deaths per 1,000 live births in each specific educational level group
Source = Arizona linked birth/death certificates

PREVIOUS BIRTHS/TERMINATIONS

Approximately 60% of mothers whose babies died sometime during infancy had had a previous birth. There was no evident relationship between number of previous births and death at any age during infancy. Table V.

There did appear to be a relationship between a previous termination of pregnancy (spontaneous or induced) and subsequent infant death. The lowest death rates were reported for mothers who had had no previous termination; all death rates rose as the number of terminations increased. Tables 30, W.

TABLE 30
INFANT MORTALITY - TERMINATIONS
ARIZONA, 1984

<u>TERMINATIONS</u>	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
0	198	4.7	126	3.0	324	7.7
1	54	5.6	40	4.1	94	9.8
Over 1	40	10.6	24	6.3	64	16.9
Unknown	13	N/A	30	N/A	31	N/A
Total	305	5.5	220	4.0	5.25	9.5

Rate = Number of deaths per 1,000 live births in each termination group
Source: Arizona Vital Records

PREGNANCY SPACING

The highest death rates in 1984 were for babies whose mother had had a pregnancy (birth or termination) within 12 months of the currently reported birth. Their infant mortality rate was four times the rate of mothers with greater than one year spacing (30.4/1,000 vs. 6.4/1,000 to 7.7/1,000). Tables 31 and X.

TABLE 31
INFANT MORTALITY - PREGNANCY SPACING
ARIZONA, 1984

<u>TIME</u> SINCE LAST BIRTH/TERM (Years)	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
None	92	5.2	54	3.0	146	8.2
less than 1	50	22.4	18	8.0	68	30.4
1 to 1 1/2	30	3.3	27	3.0	57	6.4
over 1 1/2	118	4.5	83	3.2	201	7.7
Unknown	15	N/A	38	N/A	53	N/A
Total	305	5.5	220	4.0	525	9.5

Rate = Number of deaths per 1,000 live births in each group
 Source: Arizona Vital Records

LEGITIMACY

The neonatal and infant death rates for babies whose mothers were not married were almost twice as high as those for babies whose mothers were married; the postneonatal death rates for the two groups did not differ appreciably. Tables 32 and Y.

TABLE 32
INFANT MORTALITY - MARITAL STATUS
ARIZONA, 1984

<u>STATUS</u>	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
Wed	204	4.8	132	3.1	336	7.9
Unwed	95	7.4	70	5.4	165	12.8
Unknown	6	N/A	18	N/A	24	N/A
Total	305	5.5	220	4.0	525	9.5

Rate = Number of deaths per 1,000 live births in each marital group
Source: Arizona Vital Records

CAUSE OF DEATH

A 3-year average of causes of death during infancy was developed for the period 1982-84. The leading cause of neonatal and infant death was conditions surrounding the perinatal period including prematurity and respiratory distress syndrome. Table 33. The leading cause of postneonatal death was ill-defined conditions, which was comprised primarily of Sudden Infant Death Syndrome (SIDS).

TABLE 33
INFANT MORTALITY
BY CAUSE - 3 YEAR AVERAGE
1982-1984

CAUSE	NEONATAL		POSTNEONATAL		INFANT	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
Infection	14	1.5	23	3.9	37	2.4
Neoplasms	6	0.7	9	1.5	15	1.0
Endocrine, Metabol	5	0.5	16	2.7	21	1.4
Blood System	1	0.1	3	0.5	4	0.3
Nervous System	3	0.3	28	4.7	31	2.0
Meningitis	2	0.2	12	2.0	14	0.9
Other	1	0.1	16	2.7	17	1.1
Circulatory System	13	1.4	15	2.5	28	1.8
Respiratory System	8	0.9	47	8.0	55	3.6
Pneumonia	7	0.8	27	4.6	34	2.2
Other	1	0.1	20	3.4	21	1.4
Digestive System	2	0.2	23	3.9	25	1.7
Genitourinary System	10	1.1	4	0.7	14	0.9
Congenital Anom.	290	31.4	99	16.8	389	25.7
CNS	42	4.6	9	1.5	51	3.4
Heart	105	11.4	64	10.8	169	11.2
Lung	26	2.8		0.0	26	1.7
Kidney	33	3.6		0.0	33	2.2
Diaph. Hernia	21	2.3		0.0	21	1.4
Chromosomal	30	3.3	12	2.0	42	2.8
Other	33	3.6	14	2.4	47	3.1
Perinatal	542	58.7	34	5.8	576	38.0
Mat. Compl.	28	3.0		0.0	28	1.8
Cord, Placenta	25	2.7		0.0	25	1.7
Prematurity	122	13.2		0.0	122	8.1
Birth Trauma	18	2.0	3	0.5	21	1.4
Asphyxia	35	3.8		0.0	35	2.3
RDS	108	11.7	2	0.3	110	7.3
BPD	4	0.4	21	3.6	25	1.7
Other Resp.	86	9.3		0.0	86	5.7
Infection	26	2.8	1	0.2	27	1.8
Hemorrhage	27	2.9	1	0.2	28	1.8
Other	63	6.8	6	1.0	69	4.6
Symptoms, Ill-Def.	26	2.8	243	41.1	269	17.8
Sids	21	2.3	231	39.1	252	16.6
Other	5	0.5	12	2.0	17	1.1
Accidents, Poison	3	0.3	46	7.8	49	3.2
TOTALS	923	100.0	591	100.0	1514	100.0

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**TABLE A
TEENAGE PREGNANCY BY
COUNTY OF RESIDENCE
Arizona, 1984**

	AGE							
	<u>Under 15</u>		<u>15-17</u>		<u>18-19</u>		<u>Total Under 20</u>	
	#	Rate	#	Rate	#	Rate	#	Rate
APACHE Population	10 2773	3.6	112 1634	68.5	187 1220	153.3	309 5627	54.9
COCHISE Population	3 3746	0.8	61 2221	27.5	118 1608	73.4	182 7575	24.0
COCONINO Population	0 3428	0.0	78 2006	38.9	167 1240	134.7	245 6674	36.7
GILA Population	2 1571	1.3	42 978	42.9	91 564	161.3	135 3113	43.4
GRAHAM Population	1 1115	0.9	32 105	45.4	54 387	139.5	87 2207	39.4
GREENLEE Population	0 607	0.0	10 309	32.4	27 173	156.1	37 1089	34.0
LAPAZ Population	1 497	2.0	10 309	32.4	16 171	93.6	27 977	27.6
MARICOPA Population	67 61,814	1.1	1451 37,212	39.0	2621 26,621	65.2	4139 125,647	32.9
MOHAVE Population	0 2100	0.0	43 1340	32.1	98 944	103.8	141 4384	32.2
NAVAJO Population	5 7515	0.7	95 4503	21.1	209 3145	66.4	309 15,163	20.4
PIMA Population	14 20647	0.7	397 12351	32.1	771 9030	85.4	1182 42,028	28.1

TABLE A (Cont'd)

	AGE							
	Under 15		15-17		18-19		Total Under 20	
	#	Rate	#	Rate	#	Rate	#	Rate
PINAL	3	0.7	141	56.9	236	150.0	380	46.6
Population	4110		2477		1573		8160	
SANTA CRUZ 0	1.0	19	15.9	42	50.4	61	14.4	
Population	2199		1192		834		4225	
YAVAPAI	3	0.6	41	13.6	83	46.3	127	13.1
Population	4920		3004		1790		9714	
YUMA	2	0.5	79	37.7	166	145.0	247	35.7
Population	3684		2093		1145		6922	
TOTAL	111	1.0	2611	38.4	4886	102.8	7613	1)33.3
	113,287		67,940		47,541		228,768	

1) Unknowns not included
 Source: Preliminary Arizona Vital Statistics
 1/86

TABLE B
NUMBER OF WOMEN BY COUNTY OF
RESIDENCE WITH NO PRENATAL CARE
1979-1984

	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>
Apache	124	96	81	118	70	69
Cochise	17	18	30	16	24	21
Coconino	48	55	43	48	61	42
Gila	18	16	18	24	11	15
Graham	18	19	20	22	9	9
Greenlee	1	0	0	1	1	0
Maricopa	301	331	202	143	254	348
Mohave	14	22	15	11	15	21
Navajo	82	97	87	66	82	50
Pima	132	249	393	447	408	371
Pinal	29	33	39	49	43	37
Santa Cruz	13	11	22	29	19	20
Yavapai	12	17	17	15	5	6
Yuma	27	38	40	8	113	168
La Paz		- Northern Part of Yuma County -			11	4
Total	836	1,002	1,007	997	1,126	1,181

Source: Preliminary Arizona Vital Statistics
1/86

TABLE C
RATE OF WOMEN BY COUNTY OF
RESIDENCE RECEIVING NO PRENATAL VISITS
1979-1983

	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>
Apache	81.1	59.0	48.2	64.0	40.0	38.0
Cochise	11.3	11.5	18.2	10.3	15.4	13.0
Coconino	29.4	30.2	24.8	27.1	33.8	23.2
Gila	25.4	25.5	23.7	29.6	16.1	22.3
Graham	37.6	37.1	39.3	47.0	20.8	20.2
Greenlee	3.8	0	0	3.9	5.5	-0-
Maricopa	12.0	12.4	7.3	5.0	8.8	11.3
Mohave	19.4	25.2	16.9	12.4	16.4	21.2
Navajo	45.8	51.1	47.9	35.0	43.0	26.8
Pima	16.2	27.9	43.0	48.8	42.6	38.3
Pinal	17.5	17.9	20.5	25.2	23.1	20.0
Santa Cruz	28.2	22.0	42.4	59.1	41.8	39.0
Yavapai	13.4	18.1	17.0	14.0	4.9	6.0
Yuma	15.3	21.2	20.6	4.2	16.6	95.9
La Paz	-----Unavailable-----				48.9	20.5
State Total	18.0	20.0	19.5	18.9	21.3	21.4
Number	836	1002	1007	997	1126	1181

Per 1,000 Live Births
Source: Preliminary Arizona Vital Statistics
1/86

TABLE D
NUMBER OF WOMEN BY COUNTY OF
RESIDENCE WITH 1-4 PRENATAL VISITS
1979-1984

	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>
Apache	192	263	221	268	245	244
Cochise	100	112	118	110	130	105
Coconino	210	193	191	185	161	189
Gila	106	88	84	71	64	62
Graham	62	90	65	51	42	50
Greenlee	19	19	13	20	30	17
Maricopa	1,558	1,214	1,064	1,124	1,236	1,670
Mohave	66	70	75	53	58	107
Navajo	293	296	265	235	205	240
Pima	439	442	390	346	365	360
Pinal	177	196	212	189	185	195
Santa Cruz	76	73	56	50	40	66
Yavapai	48	47	40	40	53	40
Yuma	117	144	180	257	210	154
La Paz		(Northern Part of Yuma County)			10	
Total	3,463	3,247	2,974	3,001	3,045	3,509

Source: Preliminary Arizona Vital Statistics
1/86

TABLE E
RATE OF WOMEN BY COUNTY OF
RESIDENCE WITH 1-4 PRENATAL VISITS
1979-1984

	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>
Apache	125.6	161.6	131.5	145.2	139.8	134.3
Cochise	99.6	71.3	71.7	70.7	83.3	64.9
Coconino	128.4	105.8	110.2	104.6	89.1	104.2
Gila	149.5	124.8	110.5	87.6	93.7	92.3
Graham	129.4	175.8	127.7	109.0	143.2	112.1
Greenlee	72.2	69.8	43.5	78.1	102.2	87.2
Maricopa	62.3	45.4	38.3	39.3	43.0	54.4
Mohave	91.3	80.4	84.6	59.8	63.2	108.3
Navajo	163.6	155.9	145.9	124.8	107.5	128.8
Pima	53.9	49.5	42.7	37.8	38.1	37.2
Pinal	106.9	106.5	111.6	97.2	99.2	105.5
Santa Cruz	164.8	146.8	107.9	101.8	87.9	128.9
Yavapai	53.8	50.2	40.1	37.5	51.7	40.0
Yuma	66.2	80.3	92.6	136.2	125.1	87.9
La Paz	(Northern Part of Yuma County)					
State Total	74.4	64.9	57.6	57.0	57.7	63.7
Number	3463	3247	2974	3001	3045	3509
Total Prenatal Visits	92.40	84.90	76.9	75.9	79.0	85.1

Per 1,000 Live Births
Source: Preliminary Arizona Vital Statistics
1/86

TABLE F
 Number, Percentage, and Rate of Births
 With Inadequate Prenatal Care by County
 and Community; Arizona, 1983-1984 ¹⁾

APACHE	Prenatal Visits				Under 5 Visits % of Total Births	
	0		1-4		1983	1984
	1983	1984	1983	1984		
St. Johns	0	0	6	0	6.1	0
Chambers	1	0	8	0	40.9	0
Concho	1	0	0	0	10.0	0
Eager	4	0	5	0	10.0	0
Alpine	1	0	0	0	16.7	0
Sanders	1	0	2	0	18.8	0
Springerville	1	1	8	18	10.3	10.1
Navajo Station	1	0	2	0	37.5	0
Chinle	11	15	45	42	16.6	17.6
Dennehotso	2	1	9	0	28.2	100.0
Ft. Defiance	1	9	15	30	13.4	19.3
Ganado	4	0	17	0	15.6	0
Allentown	1	0	2	0	10.0	0
Baby Rocks	0	0	1	0	100.0	0
Klagetoh	1	0	4	0	29.4	0
Lukachukai	1	1	20	0	30.9	100.0
Lupton	3	0	5	0	25.8	0
Many Farms	5	1	14	0	26.8	.0
Nazlini	0	1	0	0	0	100.0
Mexican Water	1	1	3	0	30.8	33.3
Wood Springs	2	0	3	0	41.7	0
Oak Springs	1	0	2	0	50.0	0
Whipperwill	1	0	1	0	40.0	0
Red Mesa	0	0	3	0	23.1	0
Red Rock	0	0	6	0	28.6	0
Rock Point	1	0	0	0	8.3	0
Rough Rock	4	0	12	0	47.1	0
Round Rock	2	0	2	0	100.0	0
Window Rock	9	0	18	0	11.3	0
Ft. Apache	0	0	3	0	30.0	0
White Clay	1	0	3	0	23.5	0
Sunrise	0	0	6	0	35.3	0
Sweetwater	1	0	5	0	30.0	0
Blue Gap	0	0	1	0	5.9	0
Teec Nos Pos	5	0	7	1	21.1	50.0
Tsailee	3	0	2	0	17.9	0
Salina Springs	0	0	2	0	17.9	0
Wide Ruins	0	0	3	0	27.3	0
Total	70	30	245	91		

1) 1983 and 1984 Preliminary Birth Records

TABLE F (Cont'd)

	0		1-4		Under 5 Visits % of Total Births	
	1983	1984	1983	1984	1983	1984
COCHISE						
Douglas	4	4	39	31	14.8	12.1
Bisbee	5	4	16	13	14.7	16.3
Sierra Vista	3	5	30	22	7.3	6.9
Benson	1	0	6	4	12.5	12.5
Willcox	2	2	5	10	7.4	12.8
Huachuca City	1	0	5	0	9.7	0
Ft. Huachuca	4	0	6	17	3.5	3.3
Bowie	0	0	2	0	40.0	0
Elfrida	0	0	3	0	12.0	0
Fairbank	0	0	1	0	50.0	0
Hereford	0	0	1	1	4.8	33.3
Naco	1	0	5	0	35.3	0
Pearce	0	0	1	0	9.1	0
Hilltop	0	0	1	0	100.0	0
St. David	1	0	1	0	10.5	0
San Simon	1	0	1	0	33.3	0
Paul Spur	0	0	4	0	22.2	0
Tombstone	1	0	2	0	11.1	0
Total	24	15	130	98		
COCONINO						
Flagstaff	23	10	36	65	7.0	7.3
Williams	1	0	3	1	9.3	25.0
Page	4	2	17	10	11.7	9.3
Fredonia	1	0	2	0	14.3	0
Grand Canyon	1	0	2	0	8.1	0
Wudatki	0	0	1	0	20.0	0
Marble Canyon	0	0	1	0	25.0	0
Parks	0	0	1	0	25.0	0
Sedona	0	0	1	0	7.1	0
Ash Fork	0	0	1	0	100.0	0
Woods Canyon Lake	0	0	1	0	50.0	0
Cedar Ridge	1	0	5	0	20.7	0
Cameron	4	0	7	0	28.9	0
Bitter Springs	1	0	3	0	28.6	0
Inscription	1	1	7	0	33.3	100.0
Kaibito	1	0	12	0	23.2	0
Le Chee	0	0	2	0	20.0	0
Canyon Diablo	2	0	5	1	18.9	100.0
Havasupai Res.	1	0	2	0	27.3	0
Hopi Res.	5	0	18	1	31.9	50.0
Navajo Mt.	2	0	4	0	33.3	0
Red Lake	1	0	2	0	11.5	0
Coalmine Mesa	0	0	1	0	16.7	0
Tuba City	12	30	27	141	12.9	17.6
Total	61	33	161	154		

TABLE F (Cont'd)

Under 5 visits %
of Total
Births

	0		1-4		Under 5 visits % of Total Births	
	1983	1984	1983	1984	1983	1984
<u>GILA</u>						
Globe	0	1	18	6	8.5	3.7
Miami	2	3	5	3	10.1	5.1
Hayden	0	0	1	0	7.1	0
Winkelman	0	0	2	0	7.7	0
Claypool	2	0	4	0	15.4	0
Payson	1	1	3	6	4.1	6.5
Pine	0	0	1	1	5.3	100.0
Roosevelt	0	0	6	0	37.5	0
Young	0	0	5	0	45.5	0
Cibecue	0	0	1	0	6.7	0
San Carlos Res.	6	8	18	34	14.7	27.3
Total	11	12	64	50		
<u>GRAHAM</u>						
Aravaipa	0	0	0	1	0	100.0
Safford	3	6	19	43	10.8	13.3
Thatcher	2	0	9	0	12.4	0
Central	1	0	0	0	16.7	0
Sunset	0	0	1	0	25.0	0
Pima	0	0	7	0	13.7	0
San Carlos Res.	3	0	6	0	17.0	0
Total	9	6	42	44		
<u>GREENLEE</u>						
Clifton	1	1	6	0	14.9	100.0
Morenci	0	1	17	17	15.5	10.3
Duncan	0	0	6	0	22.2	0
Franklin	0	0	1	0	50.0	0
Total	1	2	30	17		

TABLE F (Cont'd)

Under 5 Visits %
of Total
Births

	<u>0</u>		<u>1-4</u>		<u>Under 5 Visits % of Total Births</u>	
	1983	1984	1983	1984	1983	1984
<u>MOHAVE</u>						
Kingman	6	13	18	56	7.6	14.5
Bullhead City	4	2	1	4	8.1	35.3
Colorado City	2	0	12	1	13.0	20.0
Havasu City	1	2	6	25	3.4	8.5
Mohave Valley	1	0	4	0	13.2	0
Riviera	1	2	14	4	12.5	12.8
Golden Shores	0	0	1	0	11.1	0
Wikiup	0	0	1	0	25.0	0
Hualapai	0	0	1	0	3.2	0
Total	15	19	58	90		
<u>NAVAJO</u>						
Winslow	3	3	12	46	8.3	19.6
Holbrook	7	3	18	2	17.0	7.9
Show Low	1	5	8	50	5.8	12.5
Heber	0	0	3	0	18.8	0
Lakeside	1	0	3	0	6.9	0
Pinetop	1	0	0	0	2.7	0
Snowflake	4	0	6	0	8.0	0
Sun Valley	0	0	1	0	33.3	0
Taylor	2	0	2	0	8.0	0
Dilkon	0	0	0	1	0	100.0
Sandsprings	0	0	1	0	100.0	0
Bird Springs	0	0	2	0	33.3	0
Chilchinbeto	0	0	1	0	4.3	0
Castle Butte	2	0	10	0	26.7	0
Lower Greasewood	1	0	4	0	22.7	0
Indian Wells	4	0	4	0	23.5	0
Baby Rocks	10	0	26	0	16.5	0
Monument Valley	0	0	1	0	25.0	0
Shonto	2	0	7	0	19.6	0
Hopi Res.	22	3	43	39	19.0	22.2
Ft. Apache Res.	20	11	50	43	22.3	24.3
Cedar Spring	2	0	3	0	20.0	0
Total	82	25	205	181		

TABLE F (Cont'd)

Under 5 Visits %
of Total
Births

	0		1-4		Under 5 Visits % of Total Births	
	1983	1984	1983	1984	1983	1984
<u>PINAL</u>						
Casa Grande	10	7	38	32	11.2	10.2
Coolidge	2	0	23	0	11.7	0
Eloy	6	0	24	4	16.9	20.0
Florence	3	15	14	96	17.3	27.2
Mammoth	3	0	7	0	23.3	0
Superior	0	0	17	0	23.9	0
San Manuel	2	0	1	1	2.9	16.6
Kearny	0	2	2	13	3.8	37.5
Apache Junction	4	0	24	0	10.5	0
Maricopa	2	0	6	1	10.4	100.0
Oracle	2	0	4	0	13.6	0
Picacho	1	0	2	0	23.1	0
Stanfield	0	0	3	0	7.5	0
Toltec	1	0	1	0	25.0	0
Valley Farms	1	0	0	0	25.0	0
Hayden	1	0	5	0	18.8	0
Queen Creek	0	0	4	0	14.8	0
Papago Res.	1	0	0	0	20.0	0
Gila River Res.	3	0	9	1	8.7	20.0
Total	43	24	184	148		
<u>SANTA CRUZ</u>						
Nogales	18	19	37	59	13.3	25.6
Patagonia	0	0	1	0	7.7	0
Tumacacori	1	0	1	0	20.0	0
Ruby	0	0	1	1	100.0	100.0
Total	19	19	40	59		
<u>YAVAPAI</u>						
Dewey	0	1	0	1	0	0
Prescott	2	2	18	26	4.1	4.6
Clarkdale	0	0	2	1	6.7	14.3
Cottonwood	0	0	7	5	5.8	1.9
Bagdad	0	0	4	0	8.3	0
Ash Fork	0	0	1	0	7.7	0
Black Canyon	0	0	5	1	41.7	33.3
Camp Verde	0	0	5	1	8.1	50.0
Chino Valley	1	0	2	0	4.8	0
Congress	0	0	3	0	25.0	0
Cordes Junction	0	0	2	0	7.4	0
Oak Creek	0	0	1	0	8.3	0
Skull Valley	2	1	2	0	100.0	50.0
Total	5	4	53	35		

TABLE F (Cont'd)

Under 5 Visits %
of Total
Births

	0		1-4		Under 5 Visits % of Total Births	
	1983	1984	1983	1984	1983	1984
<u>YUMA</u>						
Yuma	82	163	135	139	17.9	18.0
Somerton	9	0	33	2	29.0	100.0
Dateland	2	0	1	0	12.4	0
Gadsden	1	0	6	0	41.2	0
MCAS	2	0	5	0	6.1	0
Roll	3	0	1	1	28.6	100.0
San Luis	10	0	10	1	34.5	100.0
Tacna	0	0	3	0	42.8	0
Wellton	3	0	10	0	33.3	0
Yuma Proving Gd.	1	0	6	0	15.6	0
Total	113	163	210	141		
<u>LA PAZ</u>						
Cibola	0	1	0	0	0	100.0
Parker	8	0	12	0	12.6	0
Ehrenberg	1	0	1	0	15.4	0
Quartzsite	1	0	3	0	26.7	0
Wenden	1	0	4	0	50.0	0
Colorado River Res.	0	0	2	0	11.1	0
Total	11	1	22	0		

Source: Arizona Preliminary Vital Statistics.

Maricopa and Pima Counties census tract data available upon request to the Arizona Department of Health Services, Division of Family Health Services

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TABLE G
PERCENTAGE OF BIRTHS BY MATERNAL
ETHNICITY AND PRENATAL VISITS
ARIZONA, 1983 & 1984

	<u>WHITE</u>		<u>INDIAN</u>		<u>BLACK</u>		<u>OTHER</u>		<u>HISPANIC</u>	
	83	84	83	84	83	84	83	84	83	84
<u>APACHE</u>										
inadequate										
0	1.1	0.3	4.5	4.6	0.0	0.0	3.8	0.0	5.3	0.0
1-4	5.1	11.6	16.1	14.2	0.0	0.0	3.8	0.0	10.5	19.3
adequate	93.8	88.1	79.4	81.2	100.0	100.0	92.3	100.0	84.2	80.7
TOTAL #	272	352	1390	1420	6	1	26	1	57	88
<u>COCHISE</u>										
inadequate										
0	1.3	1.4	0.0	12.5	2.2	0.0	1.8	0.0	1.8	1.8
1-4	5.0	6.6	7.7	0.0	5.4	7.5	4.8	3.4	15.4	9.6
adequate	93.7	92.0	92.3	87.5	92.5	92.5	93.4	96.6	82.8	88.6
TOTAL #	794	1438	13	8	93	107	166	59	494	553
<u>COCONINO</u>										
inadequate										
0	1.4	0.8	5.5	4.1	5.9	5.3	1.5	0.0	4.3	1.4
1-4	3.2	5.0	15.7	17.4	0.0	21.1	7.5	0.0	7.7	8.2
adequate	95.4	94.2	78.8	78.5	94.1	73.7	91.0	100.0	88.0	90.5
TOTAL #	841	1008	763	772	17	19	67	5	117	220
<u>GILA</u>										
inadequate										
0	0.3	1.6	3.8	3.6	0.0	0.0	0.0	0.0	2.1	1.2
1-4	8.8	4.0	11.4	19.9	50.0	0.0	4.7	0.0	8.9	6.1
adequate	90.9	94.4	84.9	76.5	50.0	0.0	95.3	100.0	89.0	92.7
TOTAL #	307	449	185	221	2	0	43	1	146	165
<u>GRAHAM</u>										
inadequate										
0	0.9	1.3	5.1	4.6	0.0	0.0	3.4	33.3	2.7	1.3
1-4	5.2	11.0	10.2	10.8	0.0	25.0	17.2	33.3	17.3	15.6
adequate	93.9	87.7	84.7	84.6	100.0	75.0	79.3	33.3	80.0	83.1
TOTAL #	231	374	59	65	3	4	29	3	110	154
<u>GREENLEE</u>										
inadequate										
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
1-4	7.9	9.2	50.0	0.0	0.0	0.0	0.0	0.0	22.7	14.0
adequate	92.1	90.8	50.0	100.0	0.0	100.0	0.0	0.0	76.1	86.0
TOTAL #	76	185	2	7	0	1	0	0	88	93

TABLE G (Cont'd)

	<u>WHITE</u>		<u>INDIAN</u>		<u>BLACK</u>		<u>OTHER</u>		<u>HISPANIC</u>	
	83	84	83	84	83	84	83	84	83	84
<u>LA PAZ</u>										
inadequate										
0	2.0	2.3	11.6	0.0	100.0	0.0	0.0	0.0	1.7	3.3
1-4	6.9	6.9	2.3	2.2	0.0	0.0	0.0	0.0	17.2	11.5
adequate	91.1	90.8	86.0	97.8	0.0	100.0	0.0	0.0	81.0	85.2
TOTAL #	101	130	43	45	1	4	0	0	58	61
<u>MARICOPA</u>										
inadequate										
0	0.4	1.1	2.9	3.1	1.5	1.4	1.1	0.5	2.1	2.7
1-4	2.6	5.1	9.3	12.5	7.2	8.2	5.5	6.3	8.6	10.4
adequate	96.9	93.8	87.8	84.4	91.3	90.4	93.4	93.2	89.3	86.9
TOTAL #	19601	28153	483	768	1203	1329	1489	428	5833	7413
<u>MOHAVE</u>										
inadequate										
0	1.1	2.2	4.7	0.0	0.0	0.0	0.0	12.5	2.2	2.6
1-4	5.9	10.8	9.3	12.8	0.0	0.0	15.2	0.0	4.4	9.1
adequate	92.6	87.0	86.0	87.2	100.0	0.0	84.8	87.5	93.3	88.3
TOTAL #	794	925	43	39	2	0	33	8	45	77
<u>NAVAJO</u>										
inadequate										
0	1.6	1.1	6.1	3.6	0.0	0.0	0.0	0.0	3.1	0.7
1-4	4.6	8.6	13.9	15.8	12.5	0.0	7.8	0.0	14.4	12.8
adequate	93.8	90.3	79.9	80.6	87.5	100.0	92.2	100.0	82.5	86.6
TOTAL #	1906	722	1126	1127	8	3	64	1	97	149
<u>PIMA</u>										
inadequate										
0	2.4	3.7	5.9	6.8	7.3	4.1	3.3	2.7	7.2	6.7
1-4	2.8	3.5	3.8	6.4	5.4	4.8	4.7	6.7	5.3	5.5
adequate	94.8	92.8	90.3	86.8	87.3	91.1	92.1	90.6	87.5	87.9
TOTAL #	5246	8780	335	424	276	314	672	149	2916	3478
<u>PINAL</u>										
inadequate										
0	1.7	1.7	3.7	2.8	5.4	7.3	1.7	0.0	2.6	2.6
1-4	6.9	10.1	9.9	11.9	16.1	16.4	7.7	0.0	13.9	13.2
adequate	91.4	88.2	86.4	85.4	78.6	76.4	90.6	100.0	83.5	84.1
TOTAL #	825	1528	191	253	56	55	181	1	612	755

TABLE G (Cont'd)

	<u>WHITE</u>		<u>INDIAN</u>		<u>BLACK</u>		<u>OTHER</u>		<u>HISPANIC</u>	
	83	84	83	84	83	84	83	84	83	84
<u>SANTA CRUZ</u>										
inadequate										
0	3.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.2
1-4	5.3	12.8	0.0	0.0	0.0	33.3	4.3	0.0	9.7	13.9
adequate	91.2	83.3	100.0	0.0	100.0	66.7	95.7	0.0	85.8	81.9
TOTAL #	57	508	1	0	1	3	23	0	373	453
<u>YAVAPAI</u>										
inadequate										
0	0.4	0.5	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7
1-4	4.9	3.5	20.0	20.0	0.0	0.0	2.9	50.0	6.9	8.2
adequate	94.7	96.0	73.3	80.0	100.0	100.0	97.1	50.0	93.1	91.0
TOTAL #	901	967	15	20	2	6	35	2	72	134
<u>YUMA</u>										
inadequate										
0	4.8	9.4	4.3	8.0	1.7	11.7	6.3	4.2	9.5	13.4
1-4	7.8	8.7	8.7	12.0	10.2	10.0	15.8	8.3	17.7	10.1
adequate	87.4	81.9	87.0	80.0	88.1	78.3	77.9	87.5	72.8	76.4
TOTAL #	794	1632	23	25	59	60	95	24	706	848
<u>STATEWIDE</u>										
inadequate										
0	1.0	1.9	5.0	4.1	2.8	2.3	1.9	1.3	3.9	4.1
1-4	3.3	5.5	13.1	14.1	7.1	8.0	6.1	6.3	9.2	9.5
adequate	95.7	92.6	81.9	81.8	90.1	89.7	92.0	92.4	86.9	86.4
TOTAL #	30094	43680	3854	4251	1594	1709	2877	630	10188	12643
TOTAL #	31451	47151	4708	5194	1769	1906	3126	682	11724	14638

% = Number of births within specific ethnic and level of prenatal care group/total number of births in specific ethnic group.

Source: Preliminary Arizona Vital Statistics
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TABLE H
NUMBER OF BIRTHS BY PRENATAL VISITS,
MATERNAL ETHNICITY, AND COUNTY
ARIZONA, 1983-1984

	<u>WHITE</u>		<u>INDIAN</u>		<u>BLACK</u>		<u>OTHER</u>		<u>HISPANIC</u>	
	83	84	83	84	83	84	83	84	83	84
<u>APACHE</u>										
inadequate										
0	3	1	63	66	0	0	1	0	3	0
1-4	14	41	224	201	0	0	1	0	6	17
adequate	255	310	1,103	1,153	6	1	24	1	48	71
Total	272	352	1,390	1,420	6	1	26	1	57	88
<u>COCHISE</u>										
inadequate										
0	10	20	0	1	2	0	3	0	9	10
1-4	40	95	1	0	5	8	8	2	76	53
adequate	744	1,323	12	7	86	99	155	57	409	490
total	794	1,438	13	8	93	107	166	59	494	553
<u>COCONINO</u>										
inadequate										
0	12	8	42	32	1	1	1	0	5	3
1-4	27	50	120	134	0	4	5	0	9	18
adequate	802	950	601	606	16	14	61	5	103	199
total	841	1,008	763	772	17	19	67	5	117	220
<u>GILA</u>										
inadequate										
0	1	7	7	8	0	0	0	0	3	2
1-4	27	18	21	44	1	0	2	0	13	10
adequate	279	424	157	169	1	0	41	1	130	153
total	307	449	185	221	2	0	43	1	146	165
<u>GRAHAM</u>										
inadequate										
0	2	5	3	3	0	0	1	1	3	2
1-4	12	41	6	7	0	1	5	1	19	24
adequate	217	328	50	55	3	3	23	1	88	128
total	231	374	59	65	3	4	29	3	110	154
<u>GREENLEE</u>										
inadequate										
0	0	0	0	0	0	0	0	0	1	0
1-4	6	17	1	0	0	0	3	0	20	13
adequate	70	168	1	7	0	1	15	0	67	80
total	76	185	2	7	0	1	18	0	88	93

TABLE H (Cont'd)

	<u>WHITE</u>		<u>INDIAN</u>		<u>BLACK</u>		<u>OTHER</u>		<u>HISPANIC</u>	
	83	84	83	84	83	84	83	84	83	84
<u>LA PAZ</u>										
inadequate										
0	2	3	5	0	1	0	2	0	1	2
1-4	7	9	1	1	0	0	4	0	10	7
adequate	92	118	37	44	0	4	16	0	47	52
total	101	130	43	45	1	4	22	0	58	61
<u>MARICOPA</u>										
inadequate										
0	85	299	14	24	18	19	17	2	120	197
1-4	514	1,436	45	96	87	109	88	27	502	773
adequate	19,002	26,418	424	648	1,098	1,201	1,489	399	5,211	6,443
total	19,601	28,153	483	768	1,203	1,329	1,594	428	5,833	7,413
<u>MOHAVE</u>										
inadequate										
0	12	20	2	0	0	0	0	1	1	2
1-4	47	100	4	5	0	0	5	0	2	7
adequate	735	805	37	34	2	0	28	7	42	68
total	794	925	43	39	2	0	33	8	45	77
<u>NAVAJO</u>										
inadequate										
0	10	8	69	41	0	0	0	0	3	1
1-4	28	62	157	178	1	0	5	0	14	19
adequate	573	652	900	908	7	3	59	1	80	129
total	611	722	1,126	1,127	8	3	64	1	97	149
<u>PIMA</u>										
inadequate										
0	128	322	22	29	23	13	24	4	211	232
1-4	146	308	14	27	17	15	34	10	154	90
adequate	4,972	8,150	335	368	276	286	672	135	2,551	3,056
total	5,246	8,780	371	424	316	314	730	149	2,916	3,478
<u>PINAL</u>										
inadequate										
0	14	26	7	7	3	4	3	0	16	20
1-4	57	155	19	30	9	9	14	0	85	100
adequate	754	1,347	165	216	44	42	164	1	511	635
total	825	1,528	191	253	56	55	181	1	612	755

TABLE H (Cont'd)

	<u>WHITE</u>		<u>INDIAN</u>		<u>BLACK</u>		<u>OTHER</u>		<u>HISPANIC</u>	
	83	84	83	84	83	84	83	84	83	84
SANTA CRUZ										
inadequate										
0	2	20	0	0	0	0	0	0	17	19
1-4	3	65	0	0	0	1	1	0	36	62
adequate	52	423	1	0	1	2	22	0	320	369
total	57	508	1	0	1	3	23	0	373	450
YAVAPAI										
inadequate										
0	4	5	1	0	0	0	0	0	0	1
1-4	44	34	3	4	0	0	1	1	5	11
adequate	853	928	11	16	2	6	34	1	67	122
total	901	967	15	20	2	6	35	2	72	134
YUMA										
inadequate										
0	38	154	1	2	1	7	6	1	67	114
1-4	62	142	2	3	6	6	15	2	125	86
adequate	694	1,336	20	20	52	47	74	21	514	648
total	794	1,632	23	25	59	60	95	24	706	848
STATEWIDE										
inadequate										
0	323	898	236	213	49	44	58	9	460	605
1-4	1,034	2,573	618	730	126	153	191	43	1,076	1,390
adequate	30,094	43,680	3,854	4,251	1,594	1,709	2,877	630	10,188	12,643
total	31,451	47,151	4,708	5,194	1,769	1,906	3,126	682	11,724	14,638

Source: Preliminary Arizona Vital Statistics

TABLE I
 PERCENTAGE OF BIRTHS BY MATERNAL
 AGE AND PRENATAL VISITS
 ARIZONA, 1983-1984

	<15		15-19		20-34		>34	
	1983	1984	1983	1984	1983	1984	1983	1984
APACHE								
inadequate								
0	0.0	10.0	4.3	4.3	4.0	3.6	3.6	3.7
1-4	25.0	10.0	15.1	15.1	14.2	13.4	9.5	12.7
adequate	75.0	80.0	80.6	80.6	81.8	82.9	86.9	83.6
TOTAL #	4	10	299	299	1310	1331	137	134
COCHISE								
inadequate								
0	0.0	0.0	3.2	1.7	1.3	1.3	1.1	1.1
1-4	0.0	0.0	14.8	11.2	7.4	5.8	6.7	7.5
adequate	100.0	100.0	81.9	87.2	91.4	92.9	92.1	91.4
TOTAL #	3	3	216	179	1251	1338	89	93
COCONINO								
inadequate								
0	0.0	0.0	4.7	4.5	2.8	1.6	8.6	6.2
1-4	25.0	0.0	11.6	15.9	8.1	9.7	14.3	8.0
adequate	75.0	0.0	83.6	79.6	89.1	88.7	77.1	85.8
TOTAL #	4	0	232	245	1462	1446	105	113
GILA								
inadequate								
0	0.0	33.3	1.5	1.5	1.6	1.8	2.6	8.1
1-4	33.3	0.0	9.0	9.8	9.4	9.0	7.9	10.8
adequate	66.7	66.7	89.6	88.7	89.0	89.2	89.5	81.1
TOTAL #	3	3	134	133	508	498	38	37
GRAHAM								
inadequate								
0	0.0	0.0	2.6	4.7	1.5	1.5	7.7	0.0
1-4	33.3	0.0	13.2	15.1	8.9	10.2	7.7	12.0
adequate	66.7	100.0	84.2	80.2	89.6	88.3	84.6	88.0
TOTAL #	3	1	76	86	327	334	26	25
GREENLEE								
inadequate								
0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0
1-4	0.0	0.0	25.0	2.8	15.0	10.6	12.5	0.0
adequate	100.0	0.0	71.4	97.2	85.0	89.4	87.5	100.0
TOTAL #	1	0	28	36	147	151	8	6

TABLE I (Cont'd)	<15		15-19		20-34		> 34	
	1983	1984	1983	1984	1983	1984	1983	1984
LA PAZ								
inadequate								
0	0.0	0.0	12.8	7.7	2.9	0.7	7.7	0.0
1-4	100.0	0.0	17.9	3.8	7.6	4.9	7.7	18.2
adequate	0.0	100.0	69.2	88.5	89.5	94.4	84.6	81.8
TOTAL #	1	1	39	26	172	142	13	11
MARICOPA								
inadequate								
0	2.6	13.4	1.9	2.2	0.7	0.9	1.1	0.8
1-4	17.1	7.5	8.7	11.5	3.5	4.5	3.5	4.5
adequate	80.3	79.1	89.3	86.3	95.8	94.6	95.4	94.6
TOTAL #	76	67	4106	4073	23034	24871	1493	1671
MOHAVE								
inadequate								
0	0.0	100.0	2.5	1.4	1.4	2.0	2.4	4.3
1-4	0.0	0.0	8.1	13.5	5.6	10.1	11.9	15.2
adequate	0.0	0.0	89.4	85.1	93.0	87.9	85.7	80.4
TOTAL #	0	1	161	141	714	784	42	46
NAVAJO								
inadequate								
0	0.0	0.0	6.5	4.3	3.9	2.2	4.0	3.9
1-4	50.0	40.0	16.3	14.9	9.5	12.9	9.9	8.6
adequate	50.0	60.0	77.2	80.9	86.7	84.9	86.1	87.5
TOTAL #	4	5	325	303	1426	1392	151	152
PIMA								
inadequate								
0	33.3	7.1	9.4	8.2	3.5	3.2	3.6	3.2
1-4	8.3	7.1	6.8	7.2	3.4	3.3	2.5	2.7
adequate	58.3	85.7	83.9	84.6	93.1	93.5	93.8	94.1
TOTAL #	12	14	1197	1168	7816	7929	552	555
PINAL								
inadequate								
0	0.0	33.3	3.4	2.7	2.0	1.7	2.2	2.4
1-4	0.0	33.3	14.0	14.1	8.9	9.4	7.6	12.9
adequate	100.0	33.3	82.6	83.3	89.1	88.8	90.2	84.7
TOTAL #	7	3	385	377	1380	1372	92	85

TABLE I (Cont'd)	<15		15-19		20-34		>34	
	1983	1984	1983	1984	1983	1984	1983	1984
SANTA CRUZ								
inadequate								
0	0.0	0.0	5.6	9.8	4.2	3.2	2.6	2.6
1-4	0.0	0.0	13.0	19.7	7.8	12.2	12.8	10.3
adequate	100.0	0.0	81.5	70.5	88.1	84.7	84.6	87.2
TOTAL #	0	0	54	61	361	411	39	39
YAVAPAI								
inadequate								
0	0.0	0.0	0.0	1.6	0.6	0.4	0.0	1.3
1-4	0.0	0.0	9.7	8.9	4.6	3.0	1.4	5.2
adequate	100.0	100.0	90.3	89.5	94.7	96.6	98.6	93.5
TOTAL #	2	3	155	124	799	792	69	77
YUMA								
inadequate								
0	0.0	0.0	10.1	15.1	6.0	8.7	8.5	5.5
1-4	0.0	50.0	20.5	12.2	11.0	8.1	11.7	8.8
adequate	100.0	50.0	69.4	72.2	83.0	83.2	79.8	85.7
TOTAL #	1	2	258	245	1324	1404	94	91
STATEWIDE								
inadequate								
0	4.9	12.4	3.9	3.9	1.8	1.8	2.5	2.1
1-4	17.2	9.7	10.1	11.4	5.0	5.6	5.2	5.7
adequate	77.9	77.9	86.0	84.7	93.2	92.6	92.4	92.2
TOTAL #	122	113	7665	7496	42031	44195	2948	3135

% = Number of births within specific age and level of care group/total number of births in specific ethnic groups.

Source: Preliminary Arizona Vital Statistics
1/86

TABLE J
NUMBER OF BIRTHS BY PRENATAL VISITS,
MATERNAL AGE AND COUNTY
ARIZONA, 1983-1984

	<u>< 15</u>		<u>15-19</u>		<u>20-34</u>		<u>> 34</u>	
	83	84	83	84	83	84	83	84
<u>APACHE</u>								
inadequate								
0	0	1	13	13	52	48	5	5
1-4	1	1	45	45	186	179	13	17
adequate	3	8	241	241	1,072	1,104	119	112
total	4	10	299	299	1,310	1,331	137	134
<u>COCHISE</u>								
inadequate								
0	0	0	7	3	16	17	1	1
1-4	0	0	32	20	92	78	6	7
adequate	3	3	177	156	1,143	1,243	82	85
total	3	3	216	179	1,251	1,338	89	93
<u>COCONINO</u>								
inadequate								
0	0	0	11	11	41	23	9	7
1-4	1	0	27	39	118	140	15	9
adequate	3	0	194	195	1,303	1,283	81	97
total	4	0	232	245	1,462	1,446	105	113
<u>GILA</u>								
inadequate								
0	0	1	2	2	8	9	1	3
1-4	1	0	12	13	48	45	3	4
adequate	2	2	120	118	452	444	34	30
total	3	3	134	133	508	498	38	37
<u>GRAHAM</u>								
inadequate								
0	0	0	2	4	5	5	2	0
1-4	1	0	10	13	29	34	2	3
adequate	2	1	64	69	293	295	22	22
total	3	1	76	86	327	334	26	25
<u>GREENLEE</u>								
inadequate								
0	0	0	1	0	0	0	0	0
1-4	0	0	7	1	22	16	1	0
adequate	1	0	20	35	125	135	7	6
total	1	0	28	36	147	151	8	6

TABLE J (Cont'd)

	<u><15</u>		<u>15-19</u>		<u>20-34</u>		<u>>34</u>	
	83	84	83	84	83	84	83	84
LA PAZ								
inadequate								
0	0	0	5	2	5	1	1	0
1-4	1	0	7	1	13	7	1	2
adequate	0	1	27	23	154	134	11	9
total	1	1	39	26	172	142	13	11
MARICOPA								
inadequate								
0	2	9	76	89	160	232	16	14
1-4	13	5	358	469	812	1,118	53	76
adequate	61	53	3,672	3,515	22,062	23,521	1,424	1,581
total	76	67	4,106	4,073	23,304	24,871	1,493	1,671
MOHAVE								
inadequate								
0	0	1	4	2	10	16	1	2
1-4	0	0	13	19	40	79	5	7
adequate	0	0	144	120	664	689	36	37
total	0	1	161	141	714	784	42	46
NAVAJO								
inadequate								
0	0	0	21	13	55	30	6	6
1-4	2	2	53	45	135	180	15	13
adequate	2	3	251	245	1,236	1,182	130	133
total	4	5	325	303	1,426	1,392	151	152
PIMA								
Inadequate								
0	4	1	112	96	270	253	20	18
1-4	1	1	81	84	269	260	14	15
adequate	7	12	1,004	988	7,277	7,416	518	522
total	12	14	1,197	1,168	7,816	7,929	552	555
PINAL								
inadequate								
0	0	1	13	10	28	24	2	2
1-4	0	1	54	53	123	129	7	11
adequate	7	1	318	314	1,229	1,219	83	72
total	7	3	385	377	1,380	1,372	92	85

TABLE J (Cont'd)

	<u>< 15</u>		<u>15-19</u>		<u>20-34</u>		<u>> 34</u>	
	83	84	83	84	83	84	83	84
SANTA CRUZ								
inadequate								
0	0	0	3	6	15	13	1	1
1-4	0	0	7	12	28	50	5	4
adequate	1	0	44	43	318	348	33	34
total	1	0	54	61	361	411	39	39
YAVAPAI								
inadequate								
0	0	0	0	2	5	3	0	1
1-4	0	0	15	11	37	24	1	4
adequate	2	3	140	111	757	765	68	72
total	2	3	155	124	799	792	69	77
YUMA								
inadequate								
0	0	0	26	37	79	122	8	5
1-4	0	1	53	30	146	114	11	8
adequate	1	1	179	178	1,099	1,168	75	78
total	1	2	258	245	1,324	1,404	94	91
STATEWIDE								
inadequate								
0	6	14	296	290	749	796	73	65
1-4	21	11	774	855	2,098	2,453	152	180
adequate	95	88	6,595	6,351	39,184	40,946	2,723	2,890
total	122	113	7,665	7,496	42,031	44,195	2,948	3,135

Source: Preliminary Arizona Vital Statistics
1/86

**TABLE K
PERCENTAGE OF BIRTHS BY MARITAL
STATUS AND PRENATAL VISITS
ARIZONA, 1983-1984**

	UNWED		WED	
	1983	1984	1983	1984
<u>APACHE</u>				
inadequate				
0	6.3	5.2	2.4	2.7
1-4	17.6	17.2	11.4	11.1
adequate	76.1	77.5	86.2	86.2
TOTAL #	720	743	1028	1031
<u>COCHISE</u>				
inadequate				
0	3.8	3.2	1.1	0.9
1-4	15.7	12.2	6.9	5.3
adequate	80.5	84.5	92.1	93.8
TOTAL #	261	278	1297	1335
<u>COCONINO</u>				
inadequate				
0	7.2	5.3	1.9	0.9
1-4	15.7	19.0	6.3	6.5
adequate	77.1	75.6	91.8	92.6
TOTAL #	502	562	1302	1242
<u>GILA</u>				
inadequate				
0	3.2	4.0	1.0	1.5
1-4	18.2	18.2	6.1	5.5
adequate	78.6	77.8	92.9	93.0
TOTAL #	187	198	495	473
<u>GRAHAM</u>				
inadequate				
0	4.6	3.6	1.4	1.5
1-4	13.8	22.5	8.7	7.4
adequate	81.6	73.9	89.9	91.1
TOTAL #	87	111	346	336
<u>GREENLEE</u>				
inadequate				
0	4.0	0.0	0.0	0.0
1-4	36.0	7.7	13.2	9.0
adequate	60.0	92.3	86.8	91.0
TOTAL #	25	26	159	167

TABLE K (Cont'd)

	<u>UNWED</u>		<u>WED</u>	
	1983	1984	1983	1984
<u>LA PAZ</u>				
inadequate	4.7	0.0	4.4	2.4
0	15.6	7.0	7.6	4.9
1-4	79.6	93.0	88.0	92.7
adequate	64	57	158	123
TOTAL #				
<u>MARICOPA</u>				
inadequate				
0	2.4	2.9	0.5	0.6
1-4	9.8	12.3	2.9	3.5
adequate	87.8	84.8	96.9	95.8
TOTAL #	5843	6681	22865	24002
<u>MOHAVE</u>				
inadequate				
0	3.9	4.8	1.2	1.7
1-4	7.8	15.8	6.1	9.9
adequate	88.2	79.5	92.8	88.4
TOTAL #	153	146	759	826
<u>NAVAJO</u>				
inadequate				
0	7.8	5.4	2.6	1.2
1-4	20.4	18.2	6.2	10.3
adequate	71.7	76.4	91.2	88.5
TOTAL #	612	628	1294	1225
<u>PIMA</u>				
inadequate				
0	10.1	9.1	2.6	2.3
1-4	7.1	8.1	2.9	2.5
adequate	82.9	82.8	94.5	95.2
TOTAL #	2147	2157	7431	7510
<u>PINAL</u>				
inadequate				
0	4.6	3.0	1.4	1.5
1-4	16.8	16.1	7.0	7.9
adequate	78.6	80.9	91.6	90.6
TOTAL #	543	597	1320	1240

TABLE K (Cont'd)

	<u>UNWED</u>		<u>WED</u>	
	1983	1984	1983	1984
<u>SANTA CRUZ</u>				
inadequate				
0	7.9	7.1	3.3	2.4
1-4	15.7	18.6	7.1	29.1
adequate	76.4	74.3	89.6	68.5
TOTAL #	89	113	366	498
<u>YAVAPAI</u>				
inadequate				
0	1.4	1.2	0.3	0.5
1-4	9.7	11.2	4.4	2.5
adequate	89.0	87.6	95.2	97.0
TOTAL #	145	161	880	835
<u>YUMA</u>				
inadequate				
0	15.8	18.0	5.0	7.5
1-4	25.3	12.7	10.0	7.9
adequate	59.0	69.3	85.0	84.6
TOTAL #	273	322	1404	1420
<u>STATEWIDE</u>				
inadequate				
0	5.1	4.7	1.3	1.3
1-4	11.7	12.9	4.9	4.4
adequate	83.2	82.4	93.7	94.3
TOTAL #	11651	12780	41104	42167

% = Number of births within specific marital status and level of care group/total number of births in specific marital group

Source: Preliminary Arizona Vital Statistics

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TABLE L
NUMBER OF BIRTHS BY PRENATAL VISITS,
MARITAL STATUS AND COUNTY
ARIZONA, 1983-1984

	UNWED		WED	
	83	84	83	84
<u>APACHE</u>				
inadequate				
0	45	39	25	28
1-4	127	128	117	114
adequate	548	576	886	889
total	720	743	1,028	1,031
<u>COCHISE</u>				
inadequate				
0	10	9	14	12
1-4	41	34	89	71
adequate	210	235	1,194	1,252
total	261	278	1,297	1,335
<u>COCONINO</u>				
inadequate				
0	36	30	25	11
1-4	79	107	82	81
adequate	387	425	1,195	1,150
total	502	562	1,302	1,242
<u>GILA</u>				
inadequate				
0	6	8	5	7
1-4	34	36	30	26
adequate	147	154	460	440
total	187	198	495	473
<u>GRAHAM</u>				
inadequate				
0	4	4	5	5
1-4	12	25	30	25
adequate	71	82	311	306
total	87	111	346	336
<u>GREENLEE</u>				
inadequate				
0	1	0	0	0
1-4	9	2	21	15
adequate	15	24	138	152
total	25	26	159	167

TABLE L (Cont'd)

	<u>UNWED</u>		<u>WED</u>	
	83	83	83	84
<u>LA PAZ</u>				
inadequate				
0	3	0	7	3
1-4	10	4	12	6
adequate	51	53	139	114
total	64	57	158	123
<u>MARICOPA</u>				
inadequate				
0	139	193	115	151
1-4	573	821	663	847
adequate	5,131	5,667	22,087	23,004
total	5,843	6,681	22,865	24,002
<u>MOHAVE</u>				
inadequate				
0	6	7	9	14
1-4	12	23	46	82
adequate	135	116	704	730
total	153	146	759	826
<u>NAVAJO</u>				
inadequate				
0	48	34	34	15
1-4	125	114	80	126
adequate	439	480	1,180	1,084
total	612	628	1,294	1,225
<u>PIMA</u>				
inadequate				
0	216	196	192	172
1-4	152	174	213	186
adequate	1,779	1,787	7,026	7,152
total	2,147	2,157	7,431	7,510
<u>PINAL</u>				
inadequate				
0	25	18	18	19
1-4	91	96	93	98
adequate	472	483	1,209	1,123
total	543	597	1,320	1,240

TABLE L (Cont'd)

	<u>UNWED</u>		<u>WED</u>	
	83	84	83	84
<u>SANTA CRUZ</u>				
inadequate				
0	7	8	12	12
1-4	14	21	26	145
adequate	68	84	328	341
total	89	113	366	498
<u>YAVAPAI</u>				
inadequate				
0	2	2	3	4
1-4	14	18	39	21
adequate	129	141	838	810
total	145	161	880	835
<u>YUMA</u>				
inadequate				
0	43	58	70	106
1-4	69	41	141	112
adequate	161	223	1,193	1,202
total	273	322	1,404	1,420
<u>STATEWIDE</u>				
inadequate				
0	591	606	534	560
1-4	1,362	1,644	1,682	1,855
adequate	9,698	10,530	38,888	39,752
total	11,651	12,780	41,104	42,167

Source: Preliminary Arizona Vital Statistics
1/86

TABLE M
RATE OF BIRTHS BY BIRTH
WEIGHT AND PRENATAL VISITS
ARIZONA, 1983-1984

	<u>< 1501 Gr.</u>		<u>1501-2500 Gr.</u>		<u>< 2501 Gr.</u>	
	83	84	83	84	83	84
<u>APACHE</u>						
inadequate						
0	14.3	44.8	128.6	104.5	142.9	149.3
1-4	16.3	12.4	73.5	87.1	89.8	99.5
adequate	7.7	7.5	45.3	41.0	53.0	48.5
all levels	9.1	9.6	52.5	49.7	61.7	59.3
<u>COCHISE</u>						
inadequate						
0	125.0	0.0	125.0	142.9	250.0	142.9
1-4	30.8	38.1	92.3	76.2	123.1	114.3
adequate	12.1	9.4	71.8	64.1	83.9	73.5
all levels	15.4	11.2	74.4	65.9	89.7	77.1
<u>COCONINO</u>						
inadequate						
0	32.8	24.4	180.3	122.0	213.1	146.4
1-4	31.1	10.6	80.7	111.7	111.8	122.3
adequate	8.2	5.7	48.0	47.6	56.2	53.3
all levels	11.1	6.6	55.4	56.0	66.5	62.6
<u>GILA</u>						
inadequate						
0	0.0	66.7	181.8	200.0	181.8	266.7
1-4	0.0	32.3	46.9	48.4	46.9	80.7
adequate	8.2	5.1	34.5	48.9	42.7	54.0
all levels	7.3	9.0	38.1	52.2	45.4	61.2
<u>GRAHAM</u>						
inadequate						
0	0.0	0.0	111.1	0.0	111.0	0.0
1-4	0.0	20.4	47.6	40.8	47.6	61.2
adequate	8.0	2.6	23.9	23.3	31.9	25.9
all levels	7.0	4.5	28.0	24.7	35.0	29.2
<u>GREENLEE</u>						
inadequate						
0	0.0	0.0	0.0	0.0	0.0	0.0
1-4	69.0	0.0	0.0	0.0	69.0	0.0
adequate	0.0	17.0	45.8	39.8	45.8	56.8
all levels	10.9	15.5	38.2	36.3	49.2	51.8

TABLE M (Cont'd)

	<u>< 1501 Gr.</u>		<u>1501-2500 Gr.</u>		<u>< 2501 Gr.</u>	
	83	84	83	84	83	84
LA PAZ						
inadequate						
0	0.0	0.0	90.9	0.0	90.9	0.0
1-4	45.5	0.0	318.2	0.0	363.7	0.0
adequate	20.8	6.1	62.5	42.4	83.3	48.5
all levels	22.2	5.6	88.9	39.3	111.1	44.9
MARICOPA						
inadequate						
0	31.5	40.7	137.8	113.4	169.3	154.1
1-4	30.7	38.4	85.0	78.7	115.7	117.1
adequate	7.7	8.4	47.5	49.9	55.2	58.3
all levels	8.9	10.4	49.9	52.2	58.8	62.6
MOHAVE						
inadequate						
0	66.7	142.9	66.7	0.0	133.4	142.9
1-4	33.9	0.0	50.8	133.3	84.7	50.8
adequate	4.7	5.9	49.6	52.1	54.3	58.0
all levels	7.6	8.2	50.0	59.8	57.6	68.0
NAVAJO						
inadequate						
0	12.2	20.4	109.8	102.0	122.0	122.4
1-4	14.6	16.7	63.4	62.5	78.0	79.2
adequate	6.8	7.1	40.1	44.9	46.9	52.0
all levels	7.9	8.7	45.6	48.7	53.5	57.4
PIMA						
inadequate						
0	49.0	43.6	112.7	87.2	161.7	130.8
1-4	71.2	47.2	71.2	86.1	142.4	133.3
adequate	8.3	5.9	45.5	45.7	53.8	51.6
all levels	12.4	8.9	49.4	48.8	61.8	57.7
PINAL						
inadequate						
0	23.3	27.0	139.5	54.1	162.8	81.1
1-4	5.4	15.5	38.0	56.7	43.4	72.2
adequate	10.4	6.2	50.7	45.6	61.1	51.8
all levels	10.2	7.6	51.5	46.9	61.7	54.6
SANTA CRUZ						
inadequate						
0	0.0	0.0	52.6	150.0	52.6	150.0
1-4	0.0	0.0	100.0	30.3	100.0	30.3
adequate	5.1	2.4	42.9	23.5	48.0	25.9
all levels	4.4	2.0	48.4	29.4	52.8	31.3

TABLE M (Cont'd)

	<u>< 1501 Gr.</u>		<u>1501-2500 Gr.</u>		<u>< 2501 Gr.</u>	
	83	84	83	84	83	84
<u>YAVAPAI</u>						
inadequate						
0	0.0	0.0	0.0	166.7	0.0	166.7
1-4	150.9	51.3	75.5	128.2	226.4	179.5
adequate	7.2	3.2	54.8	64.1	62.0	67.3
all levels	14.6	5.0	55.6	67.3	70.2	72.3
<u>YUMA</u>						
inadequate						
0	26.5	0.0	97.3	61.0	123.8	61.0
1-4	14.3	26.1	66.7	71.9	81.0	98.0
adequate	3.0	7.0	42.8	47.0	45.8	54.0
all levels	6.0	8.0	49.5	50.0	55.5	58.5
<u>STATEWIDE</u>						
inadequate						
0	35.5	34.4	120.8	94.5	156.3	128.9
1-4	31.9	30.3	75.9	78.7	107.8	109.0
adequate	7.8	7.5	47.4	48.7	55.2	56.2
all levels	9.8	9.5	50.6	51.6	60.4	61.1

Rate = Number of births in specific birth weight group per 1000 live births in each prenatal care group

Source: Preliminary Arizona Vital Statistics

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**TABLE N
NUMBER OF BIRTHS BY PRENATAL
VISITS, BIRTH WEIGHT, AND COUNTY
ARIZONA, 1983-1984**

	<u>< 1501 Gr.</u>		<u>1501-2500 Gr.</u>		<u>Under 2501 Gr.</u>		<u>Over 2500 Gr.</u>	
	83	84	84	83	83	84	83	84
<u>APACHE</u>								
inadequate								
0	1	3	9	7	10	10	60	57
1-4	4	3	18	21	22	24	223	217
adequate	11	11	65	60	76	71	1360	1393
total	16	17	92	88	108	105	1643	1667
<u>COCHISE</u>								
inadequate								
0	3	0	3	3	6	3	18	18
1-4	4	4	12	8	16	12	114	93
adequate	17	14	101	95	118	109	1288	1373
total	24	18	116	106	140	124	1420	1484
<u>COCONINO</u>								
inadequate								
0	2	1	11	5	13	6	48	35
1-4	5	2	13	21	18	23	143	165
adequate	13	9	76	75	89	84	1494	1491
total	20	12	100	101	120	113	1685	1691
<u>GILA</u>								
inadequate								
0	0	1	2	3	2	4	9	11
1-4	0	2	3	3	3	5	61	57
adequate	5	3	21	29	26	32	582	561
total	5	6	26	35	31	41	652	629
<u>GRAHAM</u>								
inadequate								
0	0	0	1	0	1	0	8	9
1-4	0	1	2	2	2	3	40	46
adequate	3	1	14	9	17	10	365	377
total	3	2	17	11	20	13	413	432
<u>GREENLEE</u>								
inadequate								
0	0	0	0	0	0	0	1	0
1-4	2	0	1	0	3	0	27	17
adequate	0	3	7	7	7	10	146	166
total	2	3	8	7	10	10	174	183

TABLE N (Cont'd)

	<u>< 1501 Gr.</u>		<u>1501-2500 Gr.</u>		<u>Under 2501 Gr.</u>		<u>Over 2500 Gr.</u>	
	83	84	84	83	83	84	83	84
LA PAZ								
inadequate								
0	0	0	1	0	1	0	10	3
1-4	1	0	7	0	8	0	14	10
adequate	4	1	12	7	16	8	176	157
total	5	1	20	7	25	8	100	170
MARICOPA								
inadequate								
0	8	14	35	39	43	53	211	291
1-4	38	64	105	131	143	195	1093	1470
adequate	209	242	1293	1431	1502	1673	25723	26985
total	255	320	1433	1601	1688	1921	27027	28746
MOHAVE								
inadequate								
0	1	3	1	0	2	3	13	18
1-4	2	0	3	14	5	14	54	91
adequate	4	5	42	44	46	49	800	795
total	7	8	46	58	53	66	867	904
NAVAJO								
inadequate								
0	1	1	9	5	10	6	72	43
1-4	3	4	13	15	16	19	189	221
adequate	11	11	65	70	76	81	1543	1478
total	15	16	87	90	102	106	1804	1742
PIMA								
inadequate								
0	20	16	46	32	66	48	342	319
1-4	26	17	26	31	52	48	313	312
adequate	73	53	401	408	474	461	8334	8467
total	119	86	473	471	592	557	8989	9098
PINAL								
inadequate								
0	1	1	6	2	7	3	36	34
1-4	1	3	7	11	8	14	176	180
adequate	17	10	83	73	100	83	1537	1519
total	19	14	96	86	115	100	1749	1733

TABLE N (Cont'd)

	<u>< 1501 Gr.</u>		<u>1501-2500 Gr.</u>		<u>Under 2501 Gr.</u>		<u>Over 2500 Gr.</u>	
	83	84	84	83	83	84	83	84
<u>SANTA CRUZ</u>								
inadequate								
0	0	0	1	3	1	3	18	17
1-4	0	0	4	2	4	2	36	64
adequate	2	1	17	10	19	11	377	414
total	2	1	22	15	24	16	431	495
<u>YAVAPAI</u>								
inadequate								
0	0	0	0	1	0	1	5	5
1-4	8	2	4	5	12	7	41	32
adequate	7	3	53	61	60	64	907	887
total	15	5	57	67	72	72	953	924
<u>YUMA</u>								
inadequate								
0	3	0	11	10	14	10	99	154
1-4	3	4	14	11	17	15	193	138
adequate	4	10	58	67	62	77	1292	1348
total	10	14	83	88	93	102	1584	1640
<u>STATEWIDE</u>								
inadequate								
0	40	40	136	110	176	150	950	1014
1-4	96	106	232	275	328	381	2717	3113
adequate	378	377	2308	2446	2686	2823	45924	47411
total	514	523	2676	2831	31901	3354	49591	51538

Source: Preliminary Arizona Vital Statistics
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TABLE 0
PERCENTAGE OF LBW BIRTHS BY
PRENATAL VISITS, AGE OF
MOTHER AND RACE
Arizona, 1980-1984

<u>AGE (YRS)</u>	<u>RACE</u>	<u>PRENATAL VISITS</u>			
		<u>NONE</u>	<u>1-4</u>	<u>OVER 4</u>	<u>TOTAL</u>
Less than 18	All	21.2	13.1	7.2	8.5
	White	21.5	13.3	7.1	8.3
	Indian	16.7	8.8	5.2	6.5
	Black	37.0	21.0	12.7	14.4
	Other	50.0	38.5	13.8	22.7
	Hispanic	18.2	11.8	7.3	8.4
18-24	All	14.6	11.5	5.7	6.3
	White	14.4	12.1	5.6	6.1
	Indian	2.1	8.4	4.1	5.2
	Black	28.6	16.3	11.1	12.1
	Other	22.2	12.7	5.7	6.6
	Hispanic	12.0	8.9	5.7	6.3
25-34	All	13.6	10.5	5.1	5.4
	White	13.3	10.9	5.0	5.3
	Indian	13.3	7.6	4.5	5.3
	Black	19.2	23.4	10.3	11.2
	Other	26.3	11.5	4.3	4.9
	Hispanic	12.5	7.9	5.1	5.5
35 PLUS	All	16.8	12.6	6.0	6.7
	White	16.8	13.1	5.9	6.5
	Indian	16.1	10.8	4.8	6.6
	Black	40.0	16.7	10.7	11.5
	Other	0.0	18.8	9.0	9.5
	Hispanic	14.4	7.8	5.6	6.2
TOTAL	All	15.3	11.4	5.5	6.0
	White	15.1	11.9	5.4	5.9
	Indian	13.3	8.3	4.4	5.5
	Black	27.7	18.7	11.0	12.0
	Other	24.4	14.5	5.2	6.0
	Hispanic	13.1	8.9	5.6	6.2

% = Number of low birth weight births in each specific ethnic and prenatal care group/total number of births in each specific ethnic group

Source: Arizona Vital Records

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TABLE P
INFANT MORTALITY - PRENATAL VISITS
Arizona, 1983

VISITS	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
0	26	23.0	7	6.2	33	29.2
1-4	60	19.6	15	4.9	75	24.4
5-14	182	4.3	138	3.3	320	7.6
14	43	6.8	8	1.2	51	8.0
Unknown	3	N/A	27	N/A	30	N/A
TOTAL	314	5.9	195	3.7	509	9.6

INFANT MORTALITY - PRENATAL VISITS
Arizona, 1984

VISITS	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
0	23	19.4	9	7.6	32	27.1
1-4	66	18.8	28	7.9	94	26.7
5-14	183	4.2	136	3.1	319	7.3
14	16	2.4	13	2.0	29	4.4
Unknown	17	N/A	34	N/A	51	4.4
TOTAL	305	5.5	220	4.0	52.5	9.5

Rate = deaths per 1,000 live births in that group
Source = Arizona linked birth/death certificates

TABLE Q
INFANT MORTALITY - BIRTHWEIGHT
Arizona, 1983

VISITS	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
Under 1500	152	295.7	17	33.0	169	14.3
1501-2500	53	83.9	29	14.3	82	78.3
Under 2501	205	6.4	46	1.4	251	7.8
Over 2500	90	1.8	127	2.5	217	4.4
Unknown	19	N/A	25	N/A	41	N/A
TOTAL	314	5.9	195	3.7	509	9.6

INFANT MORTALITY - BIRTHWEIGHT
Arizona, 1984

VISITS	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
Under 1500	174	330.8	20	38.0	194	368.1
1501-2500	38	13.4	35	12.3	73	25.6
Under 2501	212	62.7	55	16.3	267	79.0
Over 2500	93	1.8	165	3.2	258	5.0
TOTAL	305	5.5	220	4.0	525	9.5

Rate = deaths per 1,000 live births in that group
Source = Arizona linked birth/death certificates

TABLE R
INFANT MORTALITY - PRENATAL VISITS BY AGE
Arizona, 1983

<u>AGE</u>	<u>NEO</u>	<u>POST</u>	<u>TOTAL</u>
	<u>#</u>	<u>#</u>	<u>R</u>
15	1	0	8.1
15-19	69	42	14.5
20-34	223	125	8.3
34	17	6	10.6
Unknown	4	22	N/A
Total #	314	195	9.6

INFANT MORTALITY - PRENATAL VISITS BY AGE
Arizona, 1984

<u>AGE</u>	<u>NEO</u>	<u>POST</u>	<u>TOTAL</u>
	<u>#</u>	<u>#</u>	<u>R</u>
15	2	2	36.4
15-19	42	34	10.1
20-34	231	149	8.6
34	24	17	13.9
Unknown	6	18	N/A
Total #	305	220	9.5

Rate = deaths per 1,000 live births in that group
Source = Arizona linked birth/death certificates

TABLE S
INFANT MORTALITY - MOTHER'S ETHNICITY
Arizona, 1983

<u>ETHNICITY</u>	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
White	184	5.9	105	3.3	289	9.3
Am Ind	27	4.9	24	4.3	51	9.2
Black	30	12.8	14	5.9	44	18.8
Asian	3	3.8	1	1.2	4	5.0
Hispanic	70	5.2	27	2.0	97	7.3
Unknown	0	0.0	24	N/A	24	N/A
TOTAL	314	5.9	195	3.7	509	9.6

INFANT MORTALITY - MOTHER'S ETHNICITY
Arizona, 1984

<u>ETHNICITY*</u>	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
White	175	3.7	109	2.3	284	6.1
Am Ind	24	4.2	34	6.0	58	10.3
Black	20	8.1	19	7.7	39	15.8
Asian	7	8.6	0	0.0	7	8.6
Hispanic	73	5.3	40	2.9	113	8.2
Unknown	6	N/A	18	N/A	24	N/A
TOTAL	305	5.5	220	4.0	525	9.5

* Hispanic is not included in other ethnic groups
Rate = deaths per 1,000 live births in each specific ethnic group
Source = Arizona linked birth/death certificates

TABLE U
INFANT MORTALITY - MATERNAL EDUCATION
Arizona, 1983

YEARS	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
0	1	7.8			1	7.8
1-8	26	7.2	21	5.8	47	13.1
9-12	183	5.9	109	3.5	292	9.5
13-16	81	5.0	38	2.3	119	7.4
17	17	7.5	6	2.6	23	10.2
Unknown	6	N/A	21	N/A	27	N/A
TOTAL	314	5.9	195	3.7	509	9.6

INFANT MORTALITY - MATERNAL EDUCATION
Arizona, 1984

YEARS	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
1-8	25	6.9	17	4.5	42	11.5
9-12	183	5.9	133	4.1	316	10.1
13-16	69	4.3	38	2.2	107	6.6
16	10	4.4	2	0.1	12	4.5
Unknown	18	N/A	30	N/A	48	N/A
TOTAL	305	5.5	220	4.0	525	9.5

Rate = deaths per 1,000 live births in each specific educational level group
 Source = Arizona linked birth/death certificates

TABLE V
INFANT MORTALITY - PREVIOUS BIRTHS
Arizona, 1983

<u>BIRTHS</u>	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
0	128	6.0	60	2.8	188	8.8
1	74	4.4	61	3.6	135	8.1
2	65	7.7	23	2.7	88	10.5
3	17	4.6	18	4.9	35	9.5
4	12	8.0	5	3.3	17	11.3
Less than 4	14	4.6	6	1.9	20	6.6
Unknown	4	N/A	21	OK	26	N/A
TOTAL	314	5.9	195	3.7	509	9.6

INFANT MORTALITY - PREVIOUS BIRTHS
Arizona, 1984

<u>BIRTHS</u>	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
0	125	5.7	68	3.1	193	8.8
1	86	4.8	52	2.9	138	7.8
2	43	4.8	42	4.7	85	9.6
3	21	5.4	9	2.3	30	7.8
4	8	5.0	14	8.8	22	13.9
Less than 4	9	6.0	4	3.6	13	9.6
Unknown	13	N/A	31	N/A	44	N/A
TOTAL	305	5.5	220	4.0	525	9.5

Rate = deaths per 1,000 live births in each specific group
Source = Arizona linked birth/death certificates

TABLE W
INFANT MORTALITY - TERMINATIONS
Arizona, 1983

<u>TERMINATIONS</u>	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
0	213	5.3	129	3.2	342	8.5
1	61	6.5	31	3.3	92	9.8
2	19	7.5	12	4.7	31	12.2
3	6	8.5	1	1.4	7	10.0
4	3	15.3	0	0.0	3	15.3
Less than 4	6	44.4	1	7.4	7	51.8
Unknown	6	N/A	21	N/A	27	N/A
	314	5.9	195	3.7	509	9.6

INFANT MORTALITY - TERMINATIONS
Arizona, 1984

<u>TERMINATIONS</u>	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
0	198	4.7	126	3.0	324	7.7
1	54	5.6	40	4.1	94	9.8
2	26	9.6	16	5.9	42	15.6
3	7	9.4	8	10.7	15	20.1
4	4	18.2	0	0.0	4	18.2
Less than 4	3	20.5	0	0.0	3	20.5
Unknown	13	N/A	30	N/A	31	N/A
TOTAL	305	5.5	220	4.0	5.25	9.5

Rate = deaths per 1,000 live births in each specific group
Source = Arizona linked birth/death certificates

TABLE X
INFANT MORTALITY - PREGNANCY SPACING
Arizona, 1983

<u>YEARS</u>	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	Since Last	#	RATE	#	RATE	#
None	104	6.0	49	2.8	153	8.8
1	37	16.2	18	7.9	55	24.2
1 1/2	56	7.5	33	4.4	89	11.9
2	17	4.4	14	3.6	31	8.1
3	36	4.1	26	2.9	62	7.0
4	20	4.0	9	1.8	29	5.9
5	15	5.7	8	3.0	23	8.7
Less than 5	23	4.1	16	2.8	39	7.0
Unknown	6	N/A	21	N/A	28	N/A
TOTAL	314	5.9	195	3.7	509	9.6

INFANT MORTALITY - PREGNANCY SPACING
Arizona, 1984

<u>YEARS</u>	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	Since last	#	RATE	#	RATE	#
None	92	5.2	54	3.0	146	8.2
1	50	22.4	18	8.0	68	30.4
1 1/2	30	3.3	27	3.0	57	6.4
2	15	4.7	17	5.3	32	10.0
3	31	3.5	32	3.6	63	7.1
4	20	4.0	17	3.4	37	7.4
5	16	5.2	13	4.2	29	9.4
Less than 5	36	5.9	4	0.6	40	6.6
Unknown	15	N/A	38	N/A	53	N/A
TOTAL	305	5.5	220	4.0	525	9.5

Rate = deaths per 1,000 live births in each group
Source = Arizona linked birth/death certificates

TABLE Y
INFANT MORTALITY - MARITAL STATUS
Arizona, 1984

<u>STATUS</u>	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
Wed	203	4.9	125	3.0	328	7.9
Unwed	110	9.4	49	4.1	159	13.5
Unknown	1	N/A	21	N/A	22	N/A
TOTAL	314	5.9	195	3.7	509	9.6

INFANT MORTALITY - MARITAL STATUS
Arizona, 1984

<u>STATUS</u>	<u>NEONATAL</u>		<u>POSTNEONATAL</u>		<u>INFANT</u>	
	#	RATE	#	RATE	#	RATE
Wed	204	4.8	132	3.1	336	7.9
Unwed	95	7.4	70	5.4	165	12.8
Unknown	6	N/A	18	N/A	24	N/A
TOTAL	299	5.6	202	3.8	501	9.5

Rate = deaths per 1,000 live births in each marital group
 Source = Arizona linked birth/death certificates