

BIRTHS TO HISPANIC WOMEN IN WISCONSIN
(REFERENCE TABLES)

Bureau of Health Information
Division of Health Care Financing
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Births to Hispanic Women in Wisconsin (Reference Tables)

This set of tables presents maternal and child health-related data about Hispanics in Wisconsin. These data are for the use of program managers in the Division of Public Health and local health departments that serve Hispanic populations. Preparation of these tables was supported by the Division of Public Health, Bureau of Family and Community Health, and by the Division of Health Care Financing.

These tables present information on population, birth characteristics, fertility (including births to teens), and infant mortality. Data are presented separately for the two major Hispanic subgroups in the state: those who report origins (birthplace or ancestry) in Mexico or Puerto Rico. Data are based primarily on birth certificate data for the years 1990-1999, and also include U.S. Census data for Wisconsin from 1990 and 2000.

The principal national origins of Hispanics in Wisconsin are Mexican (66 percent of the Hispanic population in 2000) and Puerto Rican (16 percent). Maternal and child health statistics have not previously been presented for these two groups in Wisconsin.

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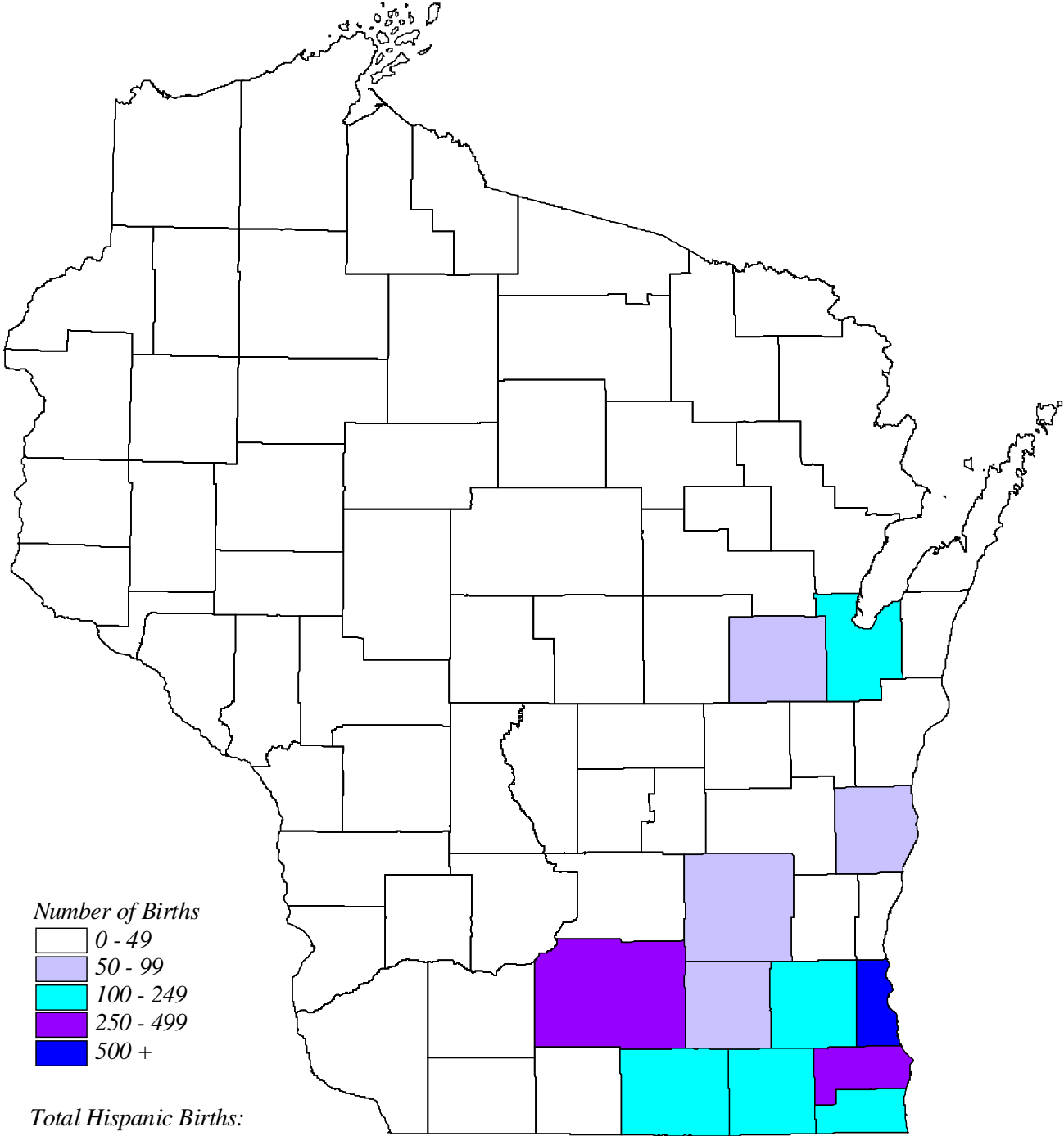
Table 1. Persons of Hispanic origin, Wisconsin, 1980-2000

	Number	Percent*
1980, all Hispanics	62,972	1.3
1990, all Hispanics	93,194	1.9
Mexican	57,615	
Puerto Rican	19,116	
Cuban	1,679	
Other	14,684	
2000, all Hispanics	192,921	3.6
Mexican	126,719	
Puerto Rican	30,267	
Cuban	2,491	
Dominican Republic	612	
Central American	4,020	
South American	4,054	
Other	24,758	

Source: U.S. Census Bureau.

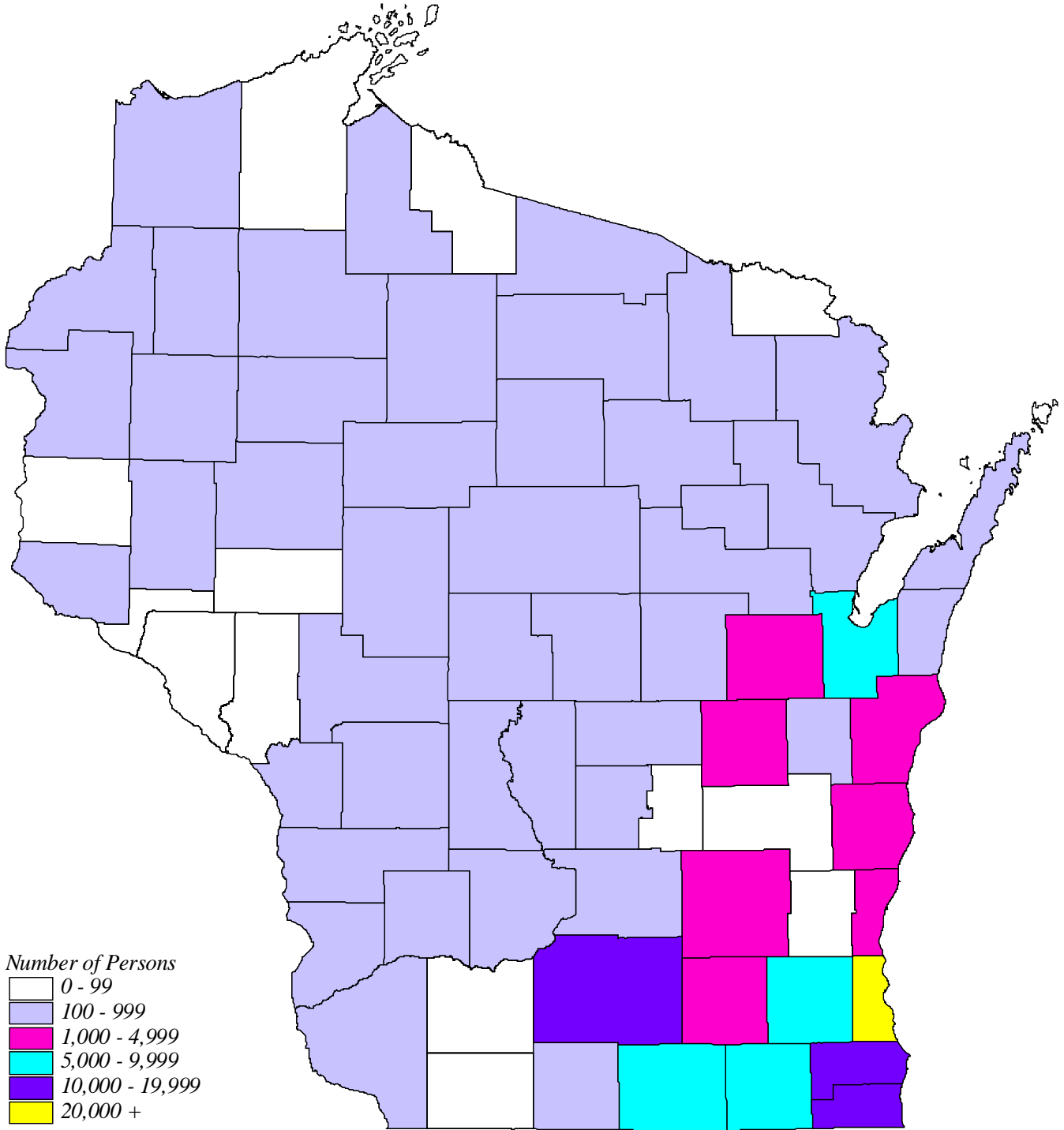
*Percent of state population.

Births to Hispanic Women, Wisconsin 1999



Wisconsin Department of Health and Family Services
 Division of Health Care Financing
 Bureau of Health Information
 See Table A-1 for county data.

Hispanic Population, Wisconsin 2000



Number of Persons
0 - 99
100 - 999
1,000 - 4,999
5,000 - 9,999
10,000 - 19,999
20,000 +

Total Hispanic Population:
192,921

US Census Bureau, 2000
See Table A-1 for county data.

Table 2. Number of births by mother's Hispanic origin and by mother's race for non-Hispanics, Wisconsin, 1990-1999

	Total births	Hispanic				Non-Hispanic		
		Total	Mexican	Puerto Rican	Other ¹	Total ²	White	Black
1999	68,181	4,036	3,106	600	330	64,145	54,813	6,444
1998	67,379	3,633	2,692	634	307	63,746	54,598	6,480
1997	66,490	3,206	2,348	602	256	63,284	54,239	6,366
1996	67,150	3,138	2,322	580	236	64,012	54,915	6,380
1995	67,493	2,856	2,000	593	263	64,637	55,404	6,480
1994	68,267	2,398	1,641	501	256	65,869	56,452	6,813
1993	69,760	2,173	1,390	485	298	67,587	57,763	7,128
1992	70,663	2,129	1,448	470	211	68,534	58,618	7,264
1991	72,039	1,944	1,273	477	194	70,095	60,396	7,146
1990	72,636	1,861	1,226	417	218	70,775	61,292	7,096

Source: Resident birth certificates, Bureau of Health Information, Division of Health Care Financing, Wisconsin Department of Health and Family Services.

1 Includes other Central American, Cuban, South American, and Hispanic or Latino origin not otherwise specified.

2 Includes all races.

Table 3. Percent of births by selected characteristics of the mother, pregnancy, delivery, and newborn infant, by mother's Hispanic origin and by mother's race for non-Hispanics, Wisconsin, 1990-1999

Characteristic	Total births	Hispanic				Non-Hispanic		
		Total	Mexican	Puerto Rican	Other ¹	Total ²	White	Black
Percent								
Mother less than 20 years of age								
1999	10.7	19.3	19.0	24.5	12.1	10.2	7.7	27.9
1998	10.5	19.5	19.5	23.7	10.8	9.9	7.4	28.3
1997	10.7	20.3	20.2	24.8	10.9	10.2	7.7	28.9
1996	10.6	21.6	21.0	27.1	14.0	10.0	7.4	29.5
1995	10.5	22.0	22.4	26.0	9.1	10.0	7.5	28.9
1994	10.3	22.0	21.6	27.4	13.7	9.9	7.3	28.8
1993	10.4	21.7	21.3	23.5	20.5	10.0	7.4	29.1
1992	10.2	21.8	21.6	27.0	11.8	9.8	7.0	30.0
1991	10.3	22.7	22.6	27.7	11.3	10.0	7.3	30.8
1990	10.2	21.8	21.0	27.8	14.2	9.9	7.3	30.7
First birth								
1999	39.7	39.2	38.7	38.2	45.2	39.7	40.7	33.4
1998	39.4	39.5	40.4	38.0	35.2	39.4	40.3	33.7
1997	39.6	38.3	38.4	35.9	43.0	39.6	40.6	34.2
1996	39.2	40.1	40.6	37.2	41.5	39.2	40.2	33.2
1995	39.2	39.6	39.8	36.4	46.0	39.2	40.1	34.4
1994	38.6	37.7	38.5	36.5	35.2	38.6	40.0	32.0
1993	38.2	37.0	36.6	34.2	43.0	38.2	39.6	30.2
1992	37.8	37.6	37.4	35.3	44.1	37.8	39.0	31.1
1991	37.7	35.5	35.8	32.3	41.2	37.8	39.0	31.6
1990	37.5	35.0	35.0	34.8	35.8	37.6	38.9	31.0
Fourth or higher order birth								
1999	11.0	13.2	13.0	15.2	12.1	10.8	9.1	20.2
1998	11.3	13.9	13.5	16.9	11.7	11.2	9.4	20.7
1997	11.5	14.2	14.4	14.6	12.5	11.3	9.3	21.6
1996	11.5	14.5	14.1	17.6	11.0	11.3	9.1	22.4
1995	11.8	14.8	15.2	15.5	10.3	11.6	9.3	22.8
1994	11.9	15.5	16.0	15.0	12.9	11.8	9.4	23.5
1993	11.9	15.6	17.0	14.4	11.4	11.7	9.1	23.3
1992	11.9	15.4	16.8	13.4	10.9	11.8	9.4	22.1
1991	11.6	17.3	17.9	15.7	17.5	11.4	9.1	20.5
1990	11.4	18.6	19.5	18.9	13.3	11.2	9.1	20.8
Mother unmarried								
1999	29.5	44.3	42.0	59.0	39.7	28.6	22.1	83.7
1998	29.1	45.7	43.4	62.6	30.6	28.1	21.5	82.9
1997	28.4	44.7	42.2	61.6	27.7	27.6	21.0	82.8
1996	27.6	45.5	42.7	64.7	26.3	26.7	20.1	83.0
1995	27.3	45.5	41.7	63.1	34.6	26.5	19.8	82.8
1994	27.1	46.3	42.5	61.9	39.8	26.4	19.7	82.1

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Characteristic	Total births	Hispanic				Non-Hispanic		
		Total	Mexican	Puerto Rican	Other ¹	Total ²	White	Black
Percent								
Unmarried, continued								
1993	27.1	46.3	41.8	58.1	48.0	26.4	19.5	82.9
1992	26.1	44.5	39.8	61.9	37.9	25.5	18.4	82.2
1991	25.3	45.1	42.0	60.4	27.4	24.8	17.8	82.8
1990	24.2	42.1	40.3	56.1	25.2	23.8	17.0	80.8
Mother education less than 12 years								
1999	16.0	50.8	55.7	40.8	22.7	13.8	9.7	31.0
1998	15.7	49.9	54.5	42.6	25.1	13.8	9.5	34.6
1997	16.0	49.0	53.6	42.5	21.9	14.4	9.8	43.0
1996	16.1	49.6	52.4	48.1	25.0	14.4	9.6	44.1
1995	16.3	50.7	55.0	49.1	21.7	14.8	9.9	44.6
1994	16.6	52.2	56.1	51.3	29.7	15.3	10.2	45.9
1993	16.9	50.5	55.7	48.4	29.9	15.8	10.5	46.0
1992	17.0	50.4	53.4	50.4	28.9	15.9	10.6	46.0
1991	17.0	50.2	54.8	47.4	27.3	16.1	10.9	46.7
1990	16.9	51.8	55.7	52.3	29.4	16.0	11.0	46.6
First-trimester prenatal care								
1999	83.9	70.5	68.6	75.2	80.0	84.7	87.5	69.0
1998	84.1	71.8	70.0	75.2	80.8	84.8	87.8	67.4
1997	84.4	72.6	71.0	74.2	84.0	85.0	87.9	68.8
1996	83.9	69.3	67.9	71.0	78.8	84.6	87.8	66.2
1995	83.2	69.5	68.0	70.2	79.1	83.8	87.2	65.3
1994	83.1	68.7	67.8	67.1	77.7	83.6	87.4	63.0
1993	82.1	66.8	65.1	65.2	77.5	82.6	86.5	60.9
1992	81.8	68.1	68.9	64.5	73.5	82.2	86.2	60.2
1991	81.5	65.0	63.6	63.6	78.9	82.0	85.9	58.4
1990	81.6	66.1	64.3	67.4	73.8	82.0	85.9	58.8
Nine or fewer prenatal care visits								
1999	21.6	33.7	34.4	32.2	29.1	20.8	18.0	37.0
1998	21.3	32.0	33.2	30.4	24.4	20.7	17.7	37.8
1997	21.2	30.1	31.0	30.2	20.7	20.8	17.7	38.1
1996	21.2	34.0	34.6	34.8	25.8	20.6	17.3	40.0
1995	21.6	33.9	34.7	34.7	26.2	21.1	17.6	40.2
1994	22.5	35.0	37.2	33.9	23.4	22.0	18.2	43.0
1993	23.5	37.2	39.9	37.3	24.8	23.0	19.1	44.4
1992	23.5	35.2	34.3	40.0	31.3	23.2	19.1	46.3
1991	24.2	38.1	38.8	41.7	24.7	23.8	19.6	49.0
1990	24.4	38.5	39.4	39.3	31.7	24.0	19.8	50.5

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Characteristic	Total births	Hispanic				Non-Hispanic		
		Total	Mexican	Puerto Rican	Other ¹	Total ²	White	Black
Percent								
Mother smoked during pregnancy								
1999	17.1	8.6	6.9	17.5	8.2	17.6	17.3	21.7
1998	17.8	9.0	7.1	17.0	8.8	18.3	18.0	22.2
1997	17.9	10.0	8.6	16.1	7.8	18.3	18.0	22.6
1996	18.2	10.4	9.5	15.7	7.2	18.6	18.3	23.0
1995	18.9	10.2	8.4	16.5	9.9	19.2	18.9	24.1
1994	19.6	12.4	10.4	18.6	13.7	19.8	19.5	25.0
1993	20.7	12.7	12.3	13.2	13.8	21.0	20.6	26.1
1992	21.6	14.6	13.0	18.5	17.1	21.8	21.3	28.1
1991	22.5	17.3	15.4	23.1	16.0	22.7	22.2	28.4
1990	22.8	15.2	13.8	21.6	11.0	23.1	22.5	29.6
Cesarean delivery ³								
1999	17.0	16.2	15.8	16.3	20.6	17.1	17.6	13.7
1998	16.0	15.4	15.3	14.7	17.9	16.1	16.5	14.1
1997	15.7	15.4	14.6	14.1	24.6	15.8	16.3	13.0
1996	15.6	13.7	13.0	14.1	18.6	15.6	16.3	12.0
1995	15.4	15.1	14.8	14.8	17.9	15.4	15.9	13.1
1994	15.7	14.6	14.4	13.2	18.4	15.7	16.3	13.0
1993	15.7	14.4	15.5	13.0	11.7	15.8	16.4	12.5
1992	16.7	17.0	16.8	17.0	18.0	16.7	17.2	11.9
1991	17.4	16.3	16.3	14.9	19.1	17.4	18.1	14.3
1990	17.6	17.2	16.2	17.5	22.9	17.6	18.2	14.5
Low birthweight ⁴								
1999	6.7	6.2	5.4	9.5	7.6	6.7	5.9	13.4
1998	6.6	6.6	6.2	8.4	6.5	6.5	5.6	13.8
1997	6.4	6.7	6.2	9.8	3.5	6.4	5.6	13.3
1996	6.3	6.5	5.8	10.2	5.1	6.3	5.5	12.8
1995	6.0	6.2	5.6	7.9	6.5	6.0	5.1	13.8
1994	6.4	6.8	6.3	9.0	5.1	6.4	5.4	14.4
1993	6.2	6.3	5.8	8.7	4.7	6.2	5.2	13.9
1992	6.0	6.2	5.2	9.2	6.2	5.9	5.0	13.5
1991	6.2	6.7	5.8	8.6	7.7	6.1	5.2	14.2
1990	5.9	6.7	6.0	8.9	6.4	5.9	4.9	14.3
Very low birthweight ⁵								
1995-1999	1.2	1.4	1.4	1.8	1.2	1.2	1.0	3.0
1994-1998	1.2	1.5	1.5	1.9	1.1	1.2	1.0	3.0
1993-1997	1.2	1.4	1.4	1.7	1.1	1.2	1.0	3.0
1992-1996	1.1	1.4	1.4	1.6	1.3	1.1	0.9	3.0
1991-1995	1.1	1.3	1.3	1.3	1.4	1.1	0.9	3.0
1990-1994	1.1	1.2	1.2	1.2	1.2	1.1	0.9	3.0

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Characteristic	Total births	Hispanic				Non-Hispanic		
		Total	Mexican	Puerto Rican	Other ¹	Total ²	White	Black
Percent								
Premature ⁶								
1999	10.4	11.1	10.7	11.3	14.8	10.4	9.5	16.9
1998	10.3	11.4	10.7	14.0	12.4	10.2	9.3	17.2
1997	10.1	10.5	10.1	13.0	8.2	10.1	9.2	17.0
1996	9.9	10.6	10.1	12.4	10.2	9.8	8.8	17.6
1995	9.7	10.8	10.4	11.5	12.2	9.7	8.6	18.5
1994	10.0	12.1	10.8	16.6	11.3	9.9	8.9	17.8
1993	9.4	12.0	12.3	13.2	8.7	9.3	8.2	18.2
1992	9.2	11.5	10.8	13.8	10.4	9.2	8.0	18.0
1991	9.4	11.4	9.8	14.7	13.4	9.4	8.1	19.6
1990	9.0	11.6	10.5	14.2	12.8	8.9	7.7	18.6
Born in multiple births								
1999	3.0	2.4	2.2	2.5	3.6	3.0	3.1	3.0
1998	2.8	2.1	2.1	1.6	3.6	2.8	2.9	3.2
1997	2.7	2.5	1.9	3.6	5.1	2.8	2.8	2.4
1996	2.8	2.2	2.3	1.6	2.1	2.8	2.8	3.2
1995	2.6	1.7	1.8	1.7	.8	2.7	2.6	2.9
1994	2.7	1.2	1.1	2.2	0	2.7	2.7	3.1
1993	2.5	2.4	1.9	5.0	.7	2.5	2.5	3.0
1992	2.7	2.2	2.5	2.3	0	2.7	2.7	3.0
1991	2.4	1.2	1.7	0	.5	2.4	2.4	2.8
1990	2.4	1.4	1.1	1.2	3.7	2.4	2.4	2.9

Source: Resident birth certificates, Bureau of Health Information, Division of Health Care Financing, Wisconsin Department of Health and Family Services.

- 1 Includes other Central American, Cuban, South American, and Hispanic or Latino origin not otherwise specified.
- 2 Includes all races.
- 3 Percent of births by cesarean delivery.
- 4 Less than 2,500 grams (5 pounds 8 ounces).
- 5 Less than 1,500 grams (3 pounds 4 ounces).
- 6 Born before 37 completed weeks of gestation.

Table 4a. Percent of births by mother's education, age, Hispanic origin, and race for non-Hispanics, Wisconsin, 1995-1999

Hispanic origin/ Education	All ages	Age of mother			
		<20	20-24	25-29	30+
		Percent			
All births ¹					
Less than high school	16.0	62.1	21.6	8.3	6.1
High school	33.1	33.7	46.9	31.4	26.4
More than high school	55.8	4.0	31.4	60.2	67.4
Hispanic, all origins					
Less than high school	50.0	76.2	49.3	40.9	36.5
High school	29.3	21.4	34.7	30.8	26.1
More than high school	20.4	2.1	15.7	28.0	37.0
Mexican					
Less than high school	54.3	76.7	53.1	46.0	44.2
High school	28.8	20.9	33.6	30.4	26.7
More than high school	16.5	1.9	13.1	23.1	28.7
Puerto Rican					
Less than high school	44.6	76.8	41.0	28.6	23.7
High school	31.7	21.1	38.6	34.2	29.1
More than high school	23.6	2.1	20.5	37.1	47.0
Non-Hispanic ²					
Less than high school	14.2	60.6	19.2	6.9	5.2
High school	33.3	35.0	47.9	31.4	26.4
More than high school	52.4	4.2	32.7	61.6	68.2
White, non-Hispanic					
Less than high school	9.7	53.1	14.9	4.7	3.3
High school	33.4	41.6	49.4	31.1	26.3
More than high school	56.8	5.1	35.6	64.1	70.3
Black, non-Hispanic					
Less than high school	42.8	75.3	36.0	24.8	23.3
High school	34.4	22.2	42.6	38.2	34.2
More than high school	22.6	2.4	21.2	37.0	42.3

Source: Resident birth certificates, Bureau of Health Information, Division of Health Care Financing, Wisconsin Department of Health and Family Services.

1 Includes births to mothers with unknown age or education.

2 Includes all races.

Table 4b. Number of births by mother's education, age Hispanic origin, and race for non-Hispanics, Wisconsin, 1995-1999

Hispanic origin/ Education	All ages	Age of mother			
		<20	20-24	25-29	30+
Number					
All births ¹	336,693	35,659	72,809	100,324	127,875
Less than high school	53,987	22,153	15,734	8,337	7,761
High school	111,387	12,016	34,133	31,491	33,737
More than high school	170,858	1,423	22,840	60,391	86,193
Hispanic, all origins	16,869	3,443	5,718	4,241	3,459
Less than high school	8,438	2,625	2,817	1,733	1,262
High school	4,937	735	1,986	1,306	904
More than high school	3,442	73	899	1,188	1,281
Mexican	12,468	2,528	4,263	3,209	2,466
Less than high school	6,773	1,940	2,264	1,477	1,091
High school	3,597	529	1,432	977	658
More than high school	2,055	49	557	742	707
Puerto Rican	3,009	757	1,123	661	468
Less than high school	1,341	581	460	189	111
High school	955	160	433	226	136
More than high school	711	16	230	245	220
Non-Hispanic ²	319,824	32,216	67,091	96,083	124,416
Less than high school	45,549	19,528	12,917	6,604	6,499
High school	106,450	11,281	32,147	30,185	32,833
More than high school	167,416	1,350	21,941	59,203	84,912
White, non-Hispanic	273,969	20,667	52,589	86,220	114,480
Less than high school	26,592	10,978	7,815	4,066	3,733
High school	91,584	8,590	26,003	26,828	30,159
More than high school	155,563	1,061	18,726	55,272	80,497
Black, non-Hispanic	32,150	9,220	10,990	6,334	5,604
Less than high school	13,775	6,940	3,961	1,568	1,305
High school	11,066	2,050	4,680	2,419	1,917
More than high school	7,268	218	2,334	2,342	2,373

Source: Resident birth certificates, Bureau of Health Information, Division of Health Care Financing, Wisconsin Department of Health and Family Services.

Note: Cells may not sum to group or table totals because totals include births to mothers with unknown age or education.

1 Includes births to mothers with unknown age or education.

2 Includes all races.

Table 5. Percent of births with low birthweight by mother's age, Hispanic origin, and race for non-Hispanics, Wisconsin, 1995-1999

Hispanic origin of mother	All ages ¹	Age of mother			
		<20	20-24	25-29	30+
Low-birthweight percent					
All births ²	6.4	9.1	6.9	5.5	6.1
Hispanic, all origins	6.4	8.2	6.0	5.3	6.6
Mexican	5.8	7.2	5.4	5.0	6.4
Puerto Rican	9.1	11.9	8.8	7.7	7.5
Non-Hispanic ²	6.4	9.2	6.9	5.5	6.1
White	5.6	7.5	6.0	4.9	5.5
Black	13.4	13.3	11.6	13.1	17.6

Source: Resident birth certificates, Bureau of Health Information, Division of Health Care Financing, Wisconsin Department of Health and Family Services.

- 1 Includes births to mothers with unknown age.
- 2 Includes all races.

Table 6. Percent of births with low birthweight by mother's education, Hispanic origin, and race for non-Hispanics, Wisconsin, 1995-1999

Hispanic origin of mother	All births ¹	Education of mother		
		Less than high school	High school	More than high school
Low-birthweight percent				
All births ¹	6.4	9.7	6.7	5.1
Hispanic, all origins	6.4	6.9	5.9	6.0
Mexican	5.8	6.0	5.4	5.9
Puerto Rican	9.1	11.6	7.6	6.6
Non-Hispanic ²	6.4	10.2	6.7	5.1
White	5.6	8.4	5.9	4.8
Black	13.4	14.9	13.3	10.7

Source: Resident birth certificates, Bureau of Health Information, Division of Health Care Financing, Wisconsin Department of Health and Family Services.

- 1 Includes births to mothers with missing data on education.
- 2 Includes all races.

Table 7. Percent of births with low birthweight by mother's age, education, and Hispanic origin, Wisconsin, 1995-1999

Hispanic origin of mother/ Education of mother	Age of mother		
	20-24	25-29	30+
	Low-birthweight percent		
Hispanic, all origins			
Less than high school	5.7	5.9	6.9
High school	6.2	4.4	6.2
More than high school	6.6	5.2	6.6
Non-Hispanic			
Less than high school	9.6	9.8	11.4
High school	6.9	5.9	7.1
More than high school	5.4	4.8	5.3

Source: Resident birth certificates, Bureau of Health Information, Division of Health Care Financing, Wisconsin Department of Health and Family Services.

Note: Many of the mothers younger than 20 would not have completed high school. Births to mothers age 19 and under are excluded.

How to read this table (example): Among births to Hispanic mothers ages 20-24 with less than a high school education, 5.7 percent were low-birthweight (weight at birth less than 2,500 grams or 5.5 pounds).

Table 8. Fertility rates by Hispanic origin of mother, Wisconsin, 1990 and 1989-1991 annual average

A. Fertility rates, 1990

	Total fertility rate ¹	Crude birth rate ²	General fertility rate ³	Age of mother					
				15-19	20-24	25-29	30-34	35-39	40-44
All births	1,886	14.8	64.5	42.4	96.2	123.6	78.6	27.8	4.6
Hispanic, all origins	2,323	20.0	85.9	90.7	142.5	116.7	73.5	32.2	*
Mexican	2,596	21.3	95.4	96.6	169.1	127.1	82.2	34.7	*
Puerto Rican	2,261	21.8	87.1	118.2	136.1	104.8	57.6	*	*

B. Average annual fertility rates, 1989-1991⁴

	Total fertility rate ¹	Crude birth rate ²	General fertility rate ³	Age of mother					
				15-19	20-24	25-29	30-34	35-39	40-44
All births	1,862	14.7	64.0	42.2	96.0	123.5	78.1	27.2	4.5
Hispanic, all origins	2,256	17.6	75.7	88.8	145.2	110.3	70.0	28.8	6.0
Mexican	2,510	18.5	83.0	95.1	168.2	119.1	78.3	31.2	7.8
Puerto Rican	2,330	21.3	85.0	118.9	151.5	111.0	55.3	22.8	*

Sources: U.S. Census Bureau; Bureau of Health Information, Division of Health Care Financing, Wisconsin Department of Health and Family Services.

*Fewer than 20 births.

- 1 The total fertility rate is the number of births that a hypothetical 1,000 females would have if they experienced throughout their childbearing years the age-specific birth rates observed in a given year.
- 2 The crude birth rate is the number of births per 1,000 total population.
- 3 The general fertility rate is the total number of births per 1,000 females ages 15-44.
- 4 The numerator is the average annual number of births, 1989-1991.

Table 9. Teen birth rates and pregnancy rates by Hispanic origin of mother, Wisconsin, 1990

A Teen birth rates, 1990

	Age of mother					
	Ages 10-14		Ages 15-19		Teen births ¹	
	Total	15-17	18-19	Total	<18	<20
All births	0.8	24.3	65.7	42.4	25.8	43.3
Hispanic, all origins	*	55.7	141.6	90.7	58.0	92.1
Mexican	*	57.4	159.0	96.6	59.2	97.7
Puerto Rican	*	81.1	170.0	118.2	86.5	121.3

B Average annual teen birth rates, 1989-1991²

	Age of mother					
	Ages 10-14		Ages 15-19		Teen births ¹	
	Total	15-17	18-19	Total	<18	<20
All births	0.8	25.0	65.9	42.2	26.1	43.1
Hispanic, all origins	1.8	58.5	132.9	88.8	61.8	90.8
Mexican	*	60.0	150.8	95.1	63.5	97.3
Puerto Rican	*	85.3	165.4	165.4	89.5	121.3

C Estimated teen pregnancy rates, 1989-1991³

	Age of mother					
	Ages 10-14		Ages 15-19		Teen pregnancies ⁴	
	Total	15-17	18-19	Total	<18	<20
All births	1.5	40.4	97.4	65.4	43.2	67.0
Hispanic, all origins	3.1	75.7	177.8	117.3	81.4	120.7

Sources: US Census Bureau (population counts); resident birth certificates, Bureau of Health Information, Division of Health Care Financing, Wisconsin Department of Health and Family Services.

Note: The birth rate is the number of births per 1,000 females in the age group.
 The pregnancy rate is the number of reported pregnancies per 1,000 females in the age group. It is an estimate based on events reported to BHI Vital Statistics data systems: live births, reported fetal deaths, and reported induced abortions. Fetal deaths are reportable when fetal gestation is 20 weeks or more. Reported pregnancies do not include miscarriages not reported as fetal deaths.

*Fewer than 20 births.

- 1 Includes births to mothers ages 14 and under. The denominator for the <18 category is the population of females 15-17 years, and the denominator for the <20 category is the population of females ages 15-19.
- 2 The numerator is the average annual number of births, 1989-1991.
- 3 The numerator is the average annual number of estimated pregnancies, 1989-1991.
- 4 Includes live births, reported induced abortions and reported fetal deaths for mothers ages 14 and under. The denominator for the <18 category is the population of females 15-17 years, and the denominator for the <20 category is the population of females ages 15-19.

Table 10. Infant mortality rates, total and Hispanics, Wisconsin, 1990-1999

Year	All infant deaths		Hispanic infant deaths	
	Number	Rate	Number	Rate
1999	456	6.7	31	7.7
1998	488	7.2	40	11.0
1997	431	6.5	33	10.3
1996	492	7.3	32	10.2
1995	493	7.3	25	8.8
1994	541	7.9	22	9.1
1993	553	7.9	17	*
1992	514	7.3	18	*
1991	608	8.4	19	*
1990	611	8.4	10	*

Source: Matched infant death file, Bureau of Health Information, Division of Health Care Financing, Wisconsin Department of Health and Family Services.

Note: The rate is the number of infant deaths per 1,000 births. Hispanic ethnicity is classified according to the origin of the mother.

*Less than 20 infant deaths.

Table 11. Five-year average infant mortality rates by mother's Hispanic origin and by mother's race for non-Hispanics: Wisconsin, 1990-1999

Five-year period	Total Wisconsin	Hispanic			Non-Hispanic		
		Total	Mexican	Puerto Rican	Total ¹	White	Black
1995-1999	7.0	9.5	8.8	12.3	6.9	5.8	16.5
1994-1998	7.3	10.0	9.5	11.7	7.1	5.9	17.3
1993-1997	7.4	9.4	8.9	10.9	7.3	6.2	16.6
1992-1996	7.6	9.0	8.5	9.5	7.5	6.4	16.7
1991-1995	7.8	8.8	8.3	9.5	7.7	6.8	15.8
1990-1994	8.0	8.2	8.2	*	8.0	7.0	16.2

Source: Matched infant death file, Bureau of Health Information, Division of Health Care Financing, Wisconsin Department of Health and Family Services

Note: The rate is the number of infant deaths per 1,000 births.

¹ Includes all races.

*Less than 20 infant deaths.

Data Sources and Technical Notes

Births

Data on live births in this set of tables are drawn from birth certificate files, which are part of the state vital records system maintained by the Vital Records Section of the Bureau of Health Information.

Data extracts from annual birth files for the years 1990-1999 were combined for this analysis. The birth files were in the same format throughout the period.

Race and Hispanic ethnicity data are collected in separate items on the birth certificate from both the mother and the husband (if the mother is married). In this set of tables, births are classified according to the race/ethnicity of the mother. The Bureau of Health Information (BHI) constructs a combined race/ethnicity variable for its reporting. In BHI reporting on Wisconsin births in its annual publications, *Wisconsin Births and Infant Deaths* (1995-present) and *Maternal and Child Health Statistics* (1982-1994), race and ethnicity are reported in a single variable with six mutually exclusive categories: non-Hispanic white, non-Hispanic black, non-Hispanic American Indian, non-Hispanic Southeast Asian (to 1993) or Laotian/Hmong (1994-present), Hispanic, and all other. In this set of tables, the American Indian, Southeast Asian or Laotian/Hmong, and all other categories are combined to form the “other” race category.

Very few Hispanics in Wisconsin belong to racial minority groups. In 1990-1999, only 3 percent of births to Hispanic women were to mothers whose race was other than white. In 1990-1999, the annual average number of births to Hispanics by race of mother was:

Race of mother	Number
White	2,744
Black	50
American Indian	37
All other	7
Total	2,737

The question on Hispanic ethnicity on the birth certificate is a query on the specific origin of the mother as well as a question on whether the mother is Hispanic. For example, here is the question in the worksheet for hospitals that report birth data electronically: “Is mother of Hispanic origin? Check ‘NO’ or specify Cuban, Mexican, etc.” Instructions to hospital and medical staff who collect information for the birth certificate are as follows:

For purposes of this item, “Hispanic” refers to those people whose origins are from Spain, Mexico, or the Spanish-speaking countries of Central or South America. Origin can be viewed as the ancestry, nationality, lineage, or country in which the person or his or her ancestors were born before their arrival in the United States. There is no set rule as to how many generations are to be taken into account in determining Hispanic origin...The response should reflect what the person considers herself or himself to be and is not based on percentages of

ancestry (Wisconsin Department of Health and Family Services, Vital Records Section, "Hospital Handbook for Vital Statistics," page I-24).

The "other Hispanics" category in this set of tables includes Cubans, Central Americans, South Americans, and Hispanics of unknown or unstated origin (i.e., only "Hispanic" or "Latino" reported).

Births were classified as premature (less than full term) if the gestational age was less than 37 weeks. To determine gestational age, a prematurity index is used; this is usually based on the computed estimate of gestational age, which is the difference between the date of last normal menses and the date of the infant's birth. The clinical estimate of gestational age (reported by the physician directly on the birth certificate) is substituted when the date of last normal menses is unknown.

Infant Deaths

The matched infant death file is the source for infant mortality data. The matched file consists of data on the death certificates matched to corresponding birth certificates. An infant death is a death occurring to a liveborn child less than one year of age who resided in the state at the time of death.

Denominator data for infant death rates, which relate infant deaths to the number of live births, come from the birth certificate files. For both the infant death and live birth data used to compute infant mortality rates, ethnicity and race are measured by race/ethnicity of the mother, as reported on the birth certificate.

Infant death rates are not reported for fewer than 20 deaths because such rates are subject to large fluctuations.

Population Counts and Birth Rates

The 1990 US Census provided population data for the birth rates presented in this report (see Tables 8 and 9). The source of the data was the publication, "1990 Census of Population, General Population Characteristics, Wisconsin, CP-1-151," instead of the Census Modified 100% Edited Detail File ("MARS" file), the source of most BHI population data from the 1990 census. The hard-copy report was used for these tables because the MARS adjustments did not apply to the specific Hispanic-origin groups.

Birth rates are not reported for fewer than 20 births because such rates would be subject to large fluctuations.

This set of tables does not include fertility rates for 1991-1999. Population estimates are available for computing fertility rates for Hispanics for the intercensal years (1991-1999), but those estimates substantially underestimate the number of Hispanics in Wisconsin; the 1999 estimate of the Hispanic population was 140,235, while the 2000 census count was 192,921. Calculating 1991-1999 birth rates for Hispanics based on intercensal estimates would overstate Hispanic birth rates, especially for the later years of the decade.

Sources for 1980 and 2000 census figures were: Wisconsin Department of Health and Social Services, "Minority Health in Wisconsin," page 10 (1980 counts); U.S. Census Bureau, Census 2000 Summary File, Table PCT11. Hispanic or Latino by Specific Origin (2000 counts); U.S. Census Bureau, Census 2000 Redistricting Data (Public Law 94-171) Summary File, Matrices PL1 and PL2 (2000 Wisconsin county data).

National Center for Health Statistics Reports

These National Center for Health Statistics reports are valuable sources of national maternal and child health statistics on Hispanics:

Mathews TJ, Ventura SJ, Curtin SC, Martin JA. Births of Hispanic origin, 1989-1995. Monthly vital statistics report; vol. 46 no 6, supp. Hyattsville, MD: National Center for Health Statistics. 1998.

Pastore LM, MacDorman MF. Infant mortality by Hispanic origin of mother, 20 states, 1985-1987 birth cohorts. National Center for Health Statistics. Vital Health Statistics 20(27). 1995.

Table A-1. Hispanic population, 2000, and births to Hispanics, 1999
(Wisconsin county data for Figures 1 and 2)

County	Number of Hispanics (2000 Census)	Number of births to Hispanics, 1999
Adams	268	4
Ashland	188	3
Barron	430	7
Bayfield	91	1
Brown	8,698	175
Buffalo	85	1
Burnett	120	1
Calumet	435	9
Chippewa	289	5
Clark	404	7
Columbia	827	14
Crawford	129	1
Dane	14,387	334
Dodge	2,188	60
Door	267	2
Douglas	315	5
Dunn	335	4
Eau Claire	879	15
Florence	23	0
Fond du Lac	1,987	36
Forest	108	2
Grant	280	2
Green	327	3
Green Lake	393	6
Iowa	75	1
Iron	45	1
Jackson	357	5
Jefferson	3,031	62
Juneau	347	3
Kenosha	10,757	236
Kewaunee	153	0
La Crosse	990	13
Lafayette	92	0
Langlade	171	4
Lincoln	243	4
Manitowoc	1,343	19
Marathon	979	9
Marinette	325	7
Marquette	421	4
Menominee	122	2
Milwaukee	82,406	1,842
Monroe	740	16
Oconto	240	5
Oneida	244	1
Outagamie	3,207	68

County	Number of Hispanics (2000 census)	Number of births to Hispanics, 1999
Ozaukee	1,073	22
Pepin	25	0
Pierce	301	3
Polk	329	6
Portage	967	16
Price	116	0
Racine	14,990	320
Richland	167	0
Rock	5,953	113
Rusk	116	1
St. Croix	483	9
Sauk	938	14
Sawyer	145	1
Shawano	407	7
Sheboygan	3,789	60
Taylor	127	2
Trempealeau	240	4
Vernon	186	2
Vilas	181	4
Walworth	6,136	142
Washburn	143	2
Washington	1,529	29
Waukesha	9,503	192
Waupaca	714	11
Waushara	848	16
Winnebago	3,065	48
Wood	709	13
Wisconsin	192,921	4,036

Sources: US Census Bureau, 2000; resident birth certificates, Bureau of Health Information, Division of Health Care Financing, Wisconsin Department of Health and Family Services, 1999.