

Low Birthweight

TITLE V INDICATOR TEMPLATE

INDICATOR: Percent of Low Birthweight

DEFINITION: The percent of live births weighing less than 2,500 grams

NUMERATOR: The number of live births weighing less than 2,500 grams, by place of residence, in a calendar year

DENOMINATOR: The total number of live births, by place of residence, in a calendar year

HEALTHY PEOPLE 2010 OBJECTIVE:

Reduce low birthweight births to an incidence of no more than 5 percent of live births.
(Baseline: 7.6 percent in 1998) (Objective 16-10a)

HEALTHY PEOPLE 2020 OBJECTIVE:

Reduce low birthweight births to an incidence of no more than 7.8 percent of live births.
(Baseline: 8.2 percent in 2007) (Objective MICH-8.1)

RISK FACTORS:

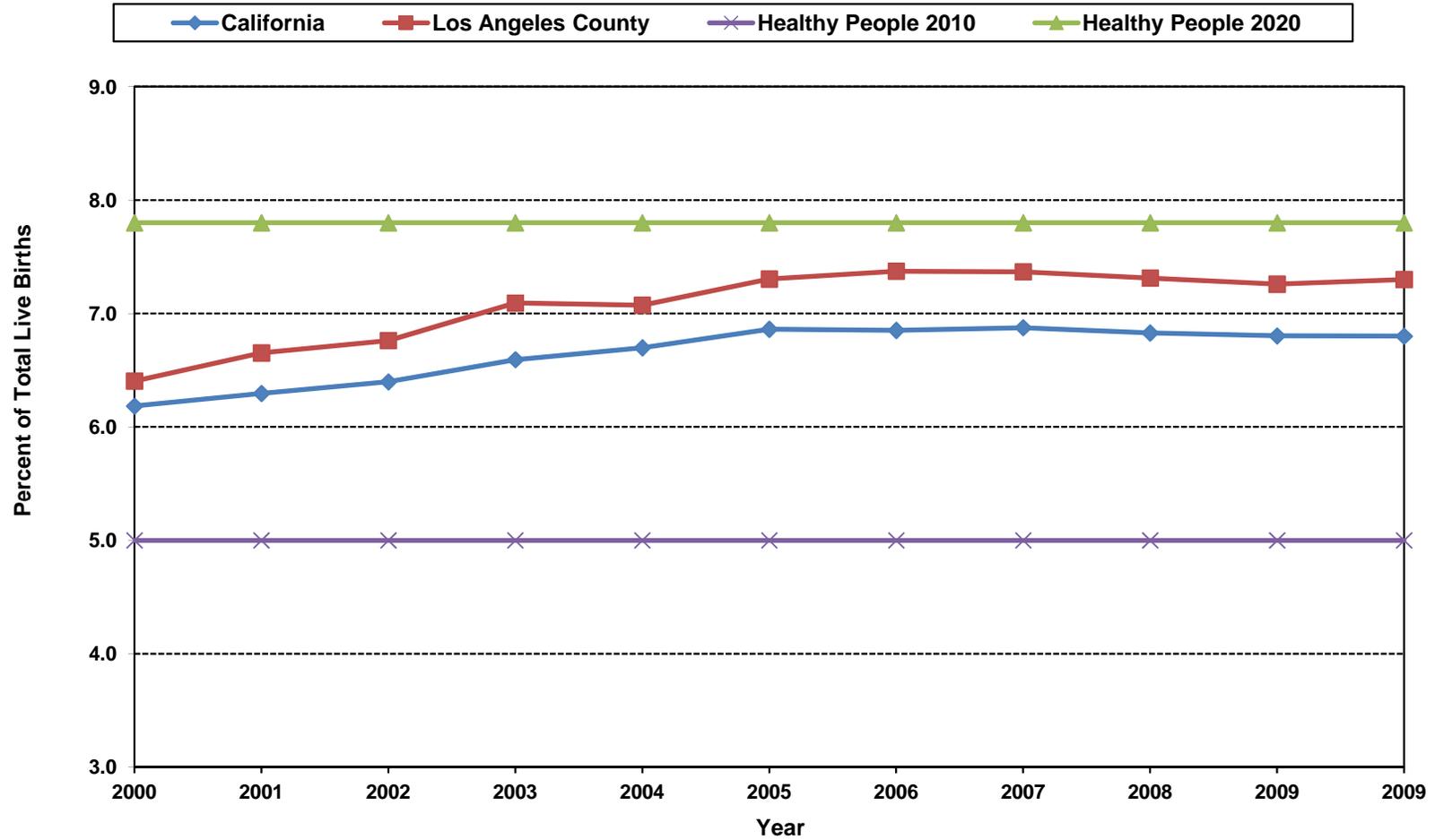
Young or old maternal age; low income; low maternal education level; race/ethnicity (African American, Puerto Rican, Southeast Asian); high parity; short interpregnancy level; multiple gestation; unintended pregnancy; history of low birthweight; poor reproductive history; intrauterine growth retardation; preterm birth; prior preterm birth; late entry into prenatal care; lack of comprehensive prenatal care; low pregnancy weight; tobacco use during pregnancy; alcohol/substance abuse during pregnancy; low pregnancy weight gain; placenta previa; premature rupture of the membrane; stress during pregnancy; strenuous exertion during pregnancy

Year	California				Los Angeles County			
	Low Birthweight		95% Confidence Interval		Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper
2000	32,853	6.2	6.1	6.2	10,080	6.4	6.3	6.5
2001	33,196	6.3	6.2	6.4	10,213	6.7	6.5	6.8
2002	33,859	6.4	6.3	6.5	10,222	6.8	6.6	6.9
2003	35,659	6.6	6.5	6.7	10,794	7.1	7.0	7.2
2004	36,481	6.7	6.6	6.8	10,717	7.1	6.9	7.2
2005	37,653	6.9	6.8	6.9	10,984	7.3	7.2	7.4
2006	38,517	6.9	6.8	6.9	11,196	7.4	7.2	7.5
2007	38,923	6.9	6.8	6.9	11,186	7.4	7.2	7.5
2008	37,663	6.8	6.8	6.9	10,800	7.3	7.2	7.4
2009	35,835	6.8	6.7	6.9	10,139	7.3	7.1	7.4

Denominator: Live Births		
Year	California	LA County
2000	531,285	157,391
2001	527,371	153,523
2002	529,245	151,167
2003	540,827	152,192
2004	544,685	151,504
2005	548,700	150,377
2006	562,157	151,837
2007	566,137	151,813
2008	551,567	147,684
2009	526,774	139,679

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2000-2009.

Percent of Low Birthweight California vs. Los Angeles County, 2000-2009

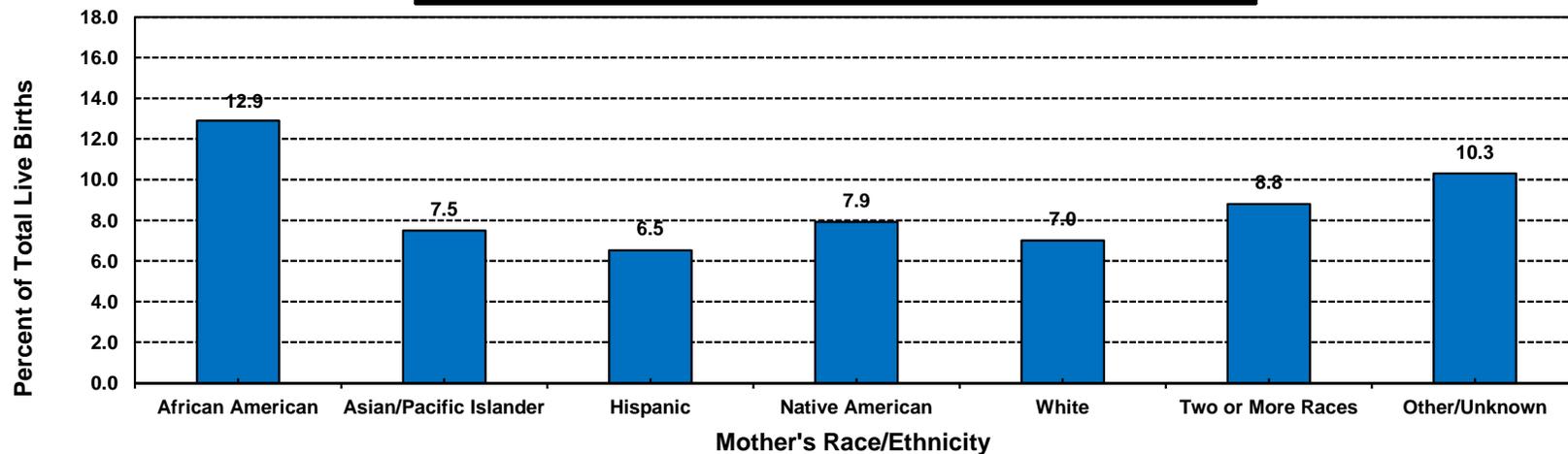


Year 2010 Objective: Reduce low birthweight births to an incidence of no more than 5 percent of live births.

Year 2020 Objective: Reduce low birthweight births to an incidence of no more than 7.8 percent of live births.

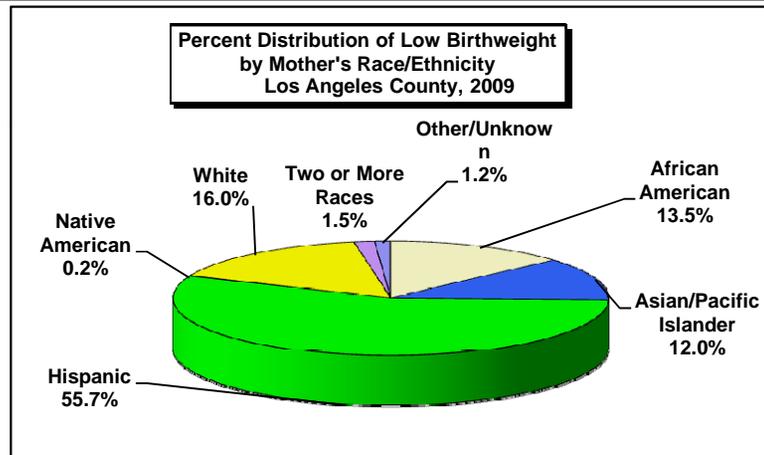
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2000-2009.

**Low Birthweight Live Births, as Percent of Total Live Births
by Mother's Race/Ethnicity
Los Angeles County, 2009**



Los Angeles County, 2009				
Mother's Race/Ethnicity	Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper
African American	1,366	12.9	12.3	13.5
Asian/Pacific Islander	1,213	7.5	7.1	7.9
Hispanic	5,648	6.5	6.4	6.7
Native American	16	7.9	4.2	11.6
White	1,622	7.0	6.7	7.3
Two or More Races	155	8.8	7.5	10.1
Other/Unknown	119	10.3	8.5	12.1
Total	10,139	7.3	7.1	7.4

Total Live Births
10,589
16,179
86,642
202
23,150
1,762
1,155
139,679



Year 2010 Objective: Reduce low birthweight births to an incidence of no more than 5 percent of live births.

Year 2020 Objective: Reduce low birthweight births to an incidence of no more than 7.8 percent of live births.

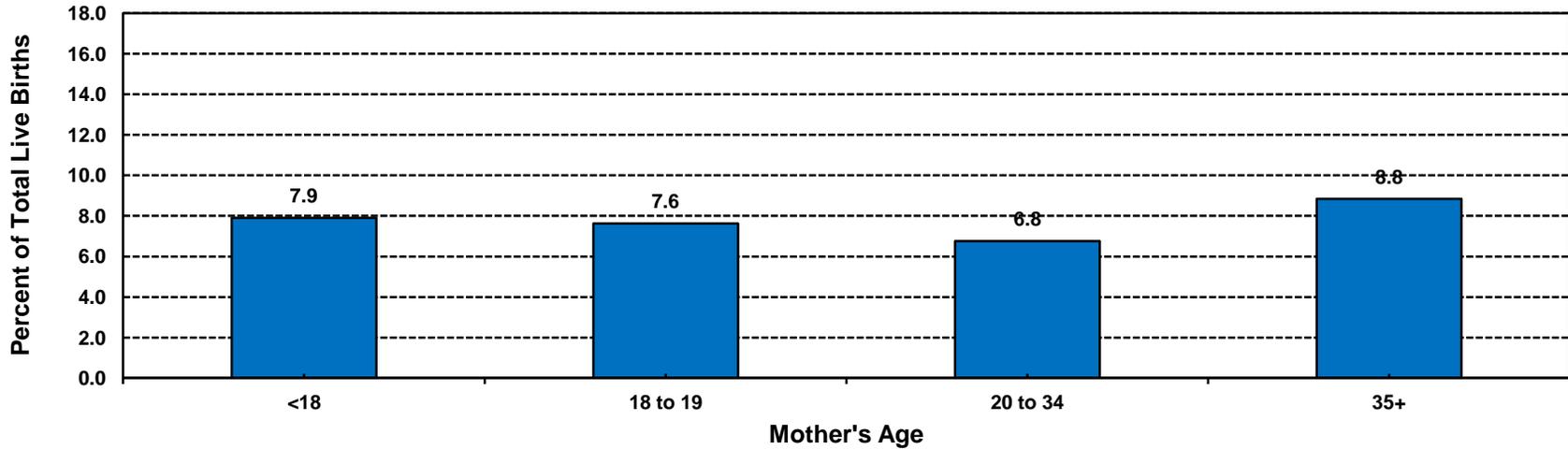
Note: Low birthweight is defined as weight less than 2,500 grams at birth.

Racial/ethnic categorization has been revised in this report; data from previous year reports may not be comparable.

African American, Asian/Pacific Islander, Native American, White and other races exclude Hispanic ethnicity. Hispanic includes any race category.

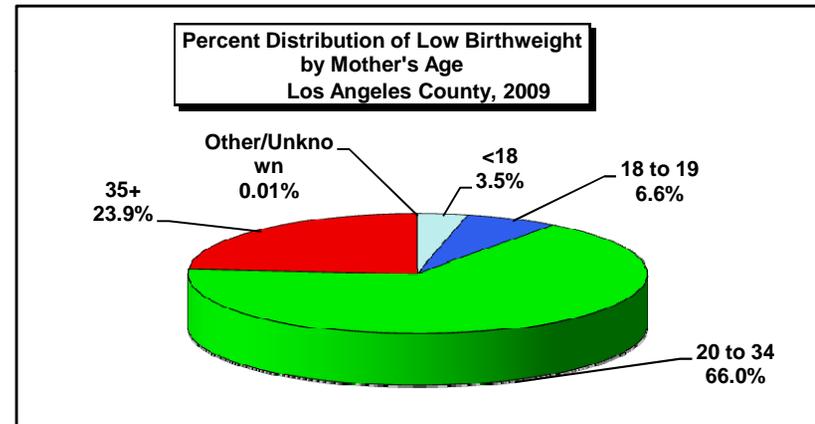
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2009.

**Low Birthweight Live Births, as Percent of Total Live Births
by Mother's Age
Los Angeles County, 2009**



Los Angeles County, 2009				
Mother's Age	Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper
<18	359	7.9	7.1	8.7
18 to 19	666	7.6	7.1	8.2
20 to 34	6,689	6.8	6.6	6.9
35+	2,424	8.8	8.5	9.2
Other/Unknown	<5	N/C	N/C	N/C
Total	10,139	7.3	7.1	7.4

Total Live Births
4,539
8,739
98,993
27,396
12
139,679



Year 2010 Objective: Reduce low birthweight births to an incidence of no more than 5 percent of live births.

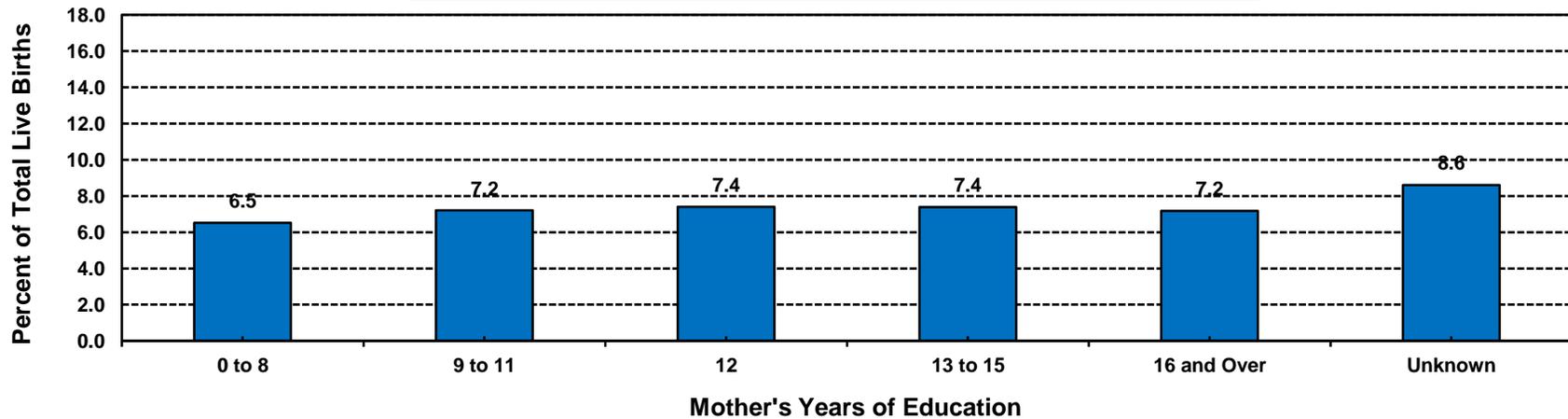
Year 2020 Objective: Reduce low birthweight births to an incidence of no more than 7.8 percent of live births.

Note: Low birthweight is defined as weight less than 2,500 grams at birth.

Numbers fewer than 5 are shown as "<5". Rates are not calculated (N/C) if number is fewer than five.

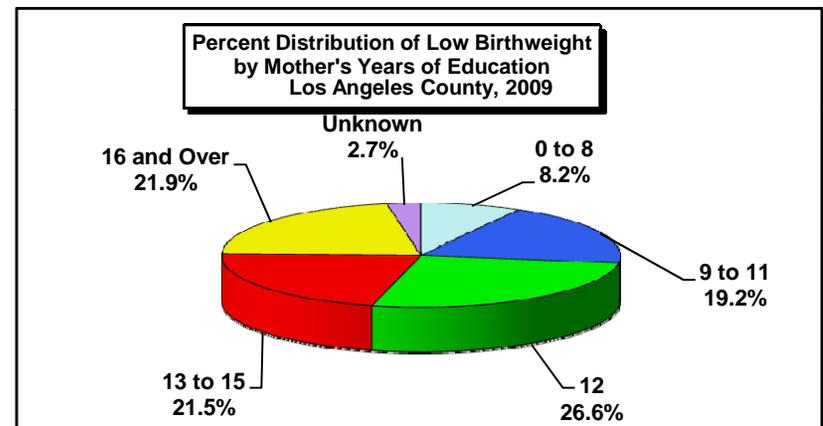
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2009.

**Low Birthweight Live Births, as Percent of Total Live Births
by Mother's Years of Education
Los Angeles County, 2009**



Los Angeles County, 2009				
Mother's Years of Education	Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper
0 to 8	832	6.5	6.1	6.9
9 to 11	1,942	7.2	6.9	7.5
12	2,696	7.4	7.1	7.7
13 to 15	2,175	7.4	7.1	7.7
16 and Over	2,217	7.2	6.9	7.5
Unknown	277	8.6	7.6	9.6
Total	10,139	7.3	7.1	7.4

Total Live Births
12,765
26,920
36,442
29,445
30,885
3,222
139,679



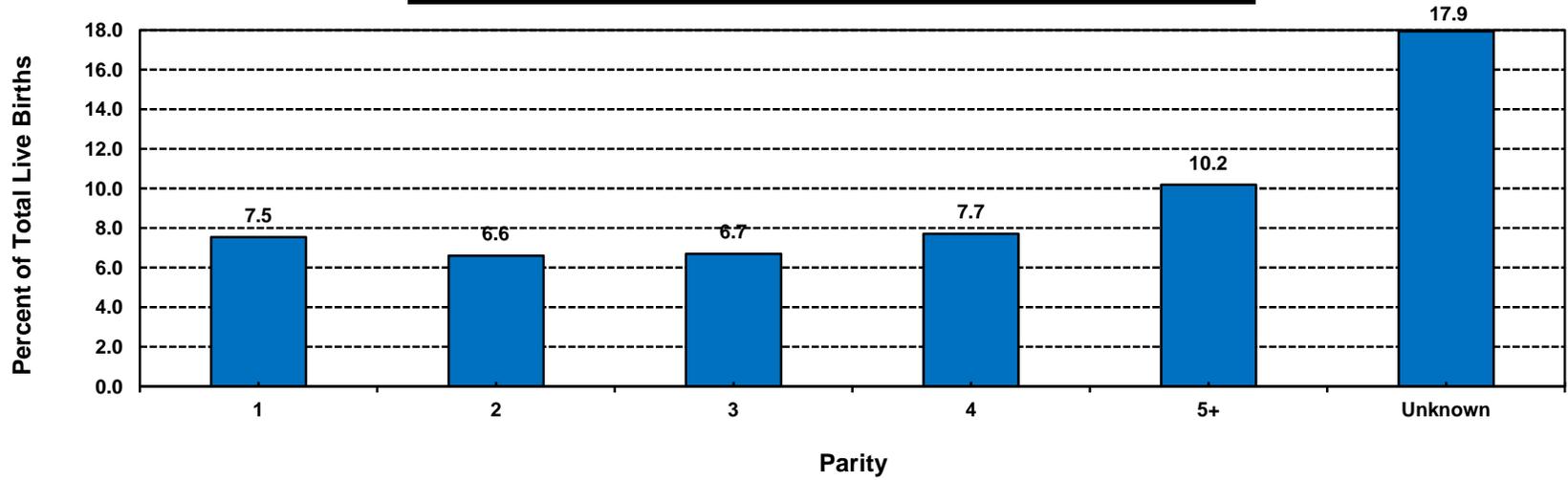
Year 2010 Objective: Reduce low birthweight births to an incidence of no more than 5 percent of live births.

Year 2020 Objective: Reduce low birthweight births to an incidence of no more than 7.8 percent of live births.

Note: Low birthweight is defined as weight less than 2,500 grams at birth.

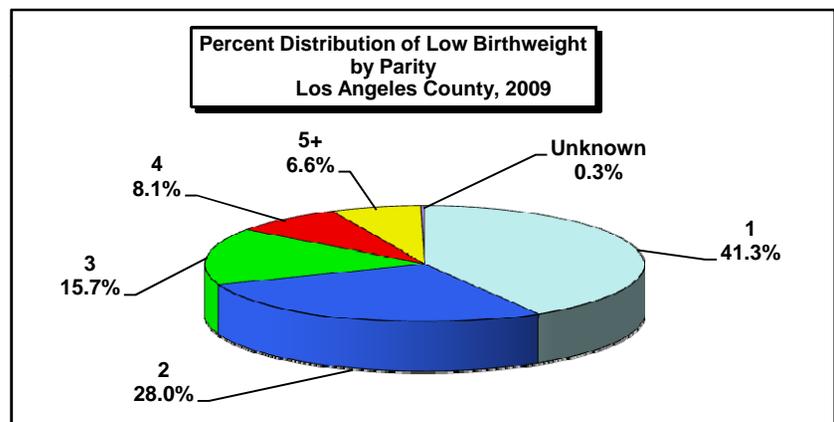
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2009.

**Low Birthweight Live Births, as Percent of Total Live Births
by Parity
Los Angeles County, 2009**



Los Angeles County, 2009				
Parity	Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper
1	4,192	7.5	7.3	7.8
2	2,834	6.6	6.4	6.8
3	1,588	6.7	6.4	7.0
4	826	7.7	7.2	8.2
5+	673	10.2	9.5	10.9
Unknown	26	17.9	11.7	24.2
Total	10,139	7.3	7.1	7.4

Total Live Births
55,574
42,906
23,724
10,720
6,610
145
139,679



Year 2010 Objective: Reduce low birthweight births to an incidence of no more than 5 percent of live births.

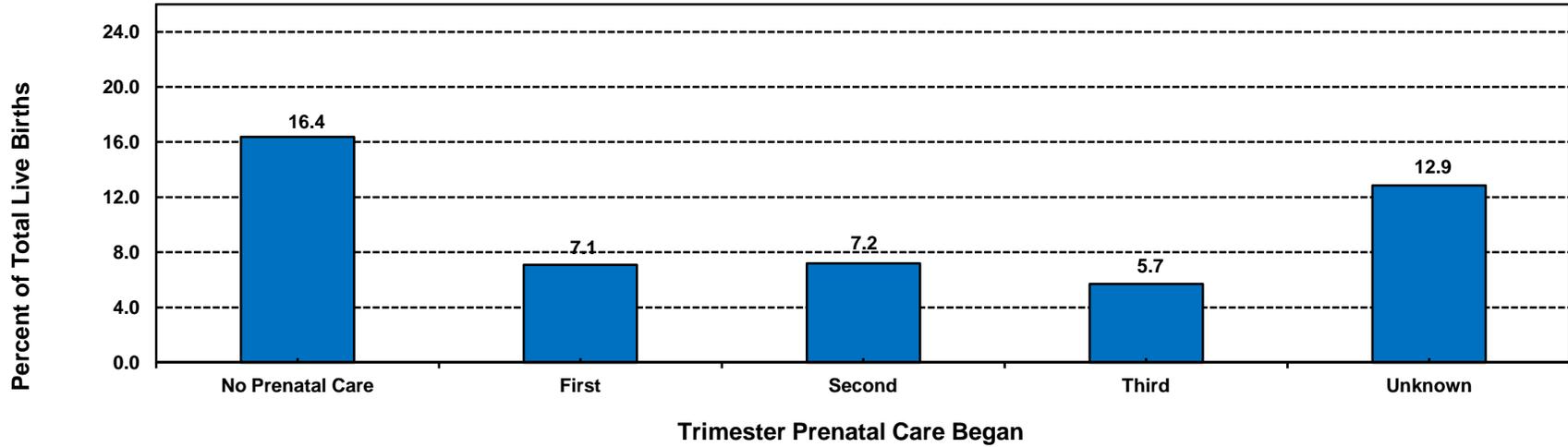
Year 2020 Objective: Reduce low birthweight births to an incidence of no more than 7.8 percent of live births.

Note: Low birthweight is defined as weight less than 2,500 grams at birth.

Parity = number of pregnancies resulting in live births to a woman.

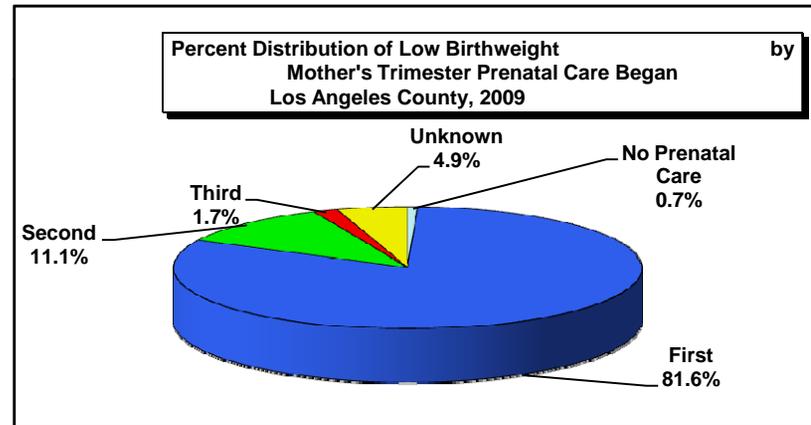
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2009.

**Low Birthweight Live Births, as Percent of Total Live Births
by Mother's Trimester Prenatal Care (PNC) Began
Los Angeles County, 2009**



Los Angeles County, 2009				
Mother's Trimester Prenatal Care Began	Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper
No Prenatal Care	72	16.4	12.9	19.8
First	8,274	7.1	6.9	7.2
Second	1,127	7.2	6.8	7.6
Third	172	5.7	4.9	6.5
Unknown	494	12.9	11.8	13.9
Total	10,139	7.3	7.1	7.4

Total Live Births
440
116,717
15,666
3,014
3,842
139,679



Year 2010 Objective: Reduce low birthweight births to an incidence of no more than 5 percent of live births.

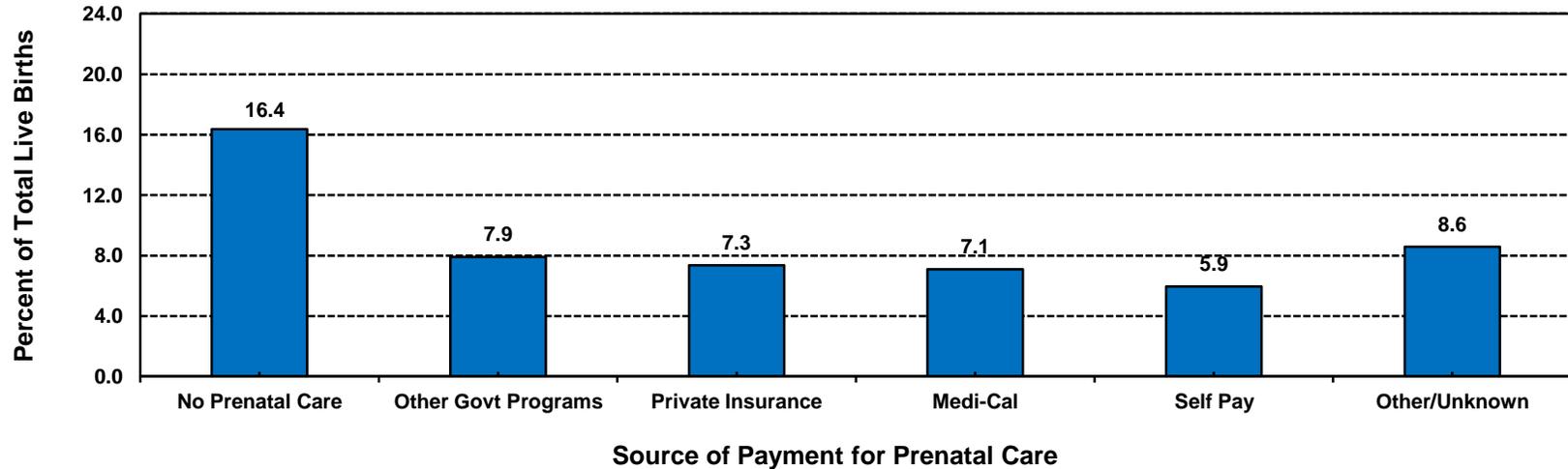
Year 2020 Objective: Reduce low birthweight births to an incidence of no more than 7.8 percent of live births.

Note: Low birthweight is defined as weight less than 2,500 grams at birth.

"Trimester Prenatal Care (PNC) Began" excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

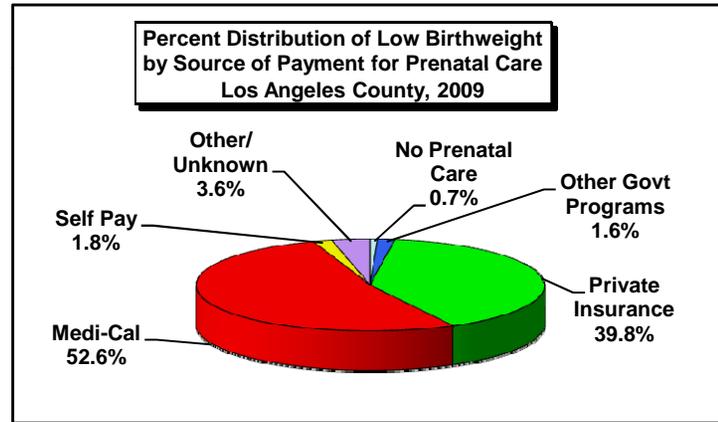
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2009.

**Low Birthweight Live Births, as Percent of Total Live Births
by Source of Payment for Prenatal Care (PNC)
Los Angeles County, 2009**



Los Angeles County, 2009				
Source of Payment for Prenatal Care	Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper
No Prenatal Care	72	16.4	12.9	19.8
Other Govt Programs	161	7.9	6.7	9.1
Private Insurance	4,038	7.3	7.1	7.6
Medi-Cal	5,330	7.1	6.9	7.3
Self Pay	179	5.9	5.1	6.8
Other/Unknown	359	8.6	7.7	9.4
Total	10,139	7.3	7.1	7.4

Total Live Births
440
2,034
54,949
75,061
3,012
4,183
139,679



Year 2010 Objective: Reduce low birthweight births to an incidence of no more than 5 percent of live births.

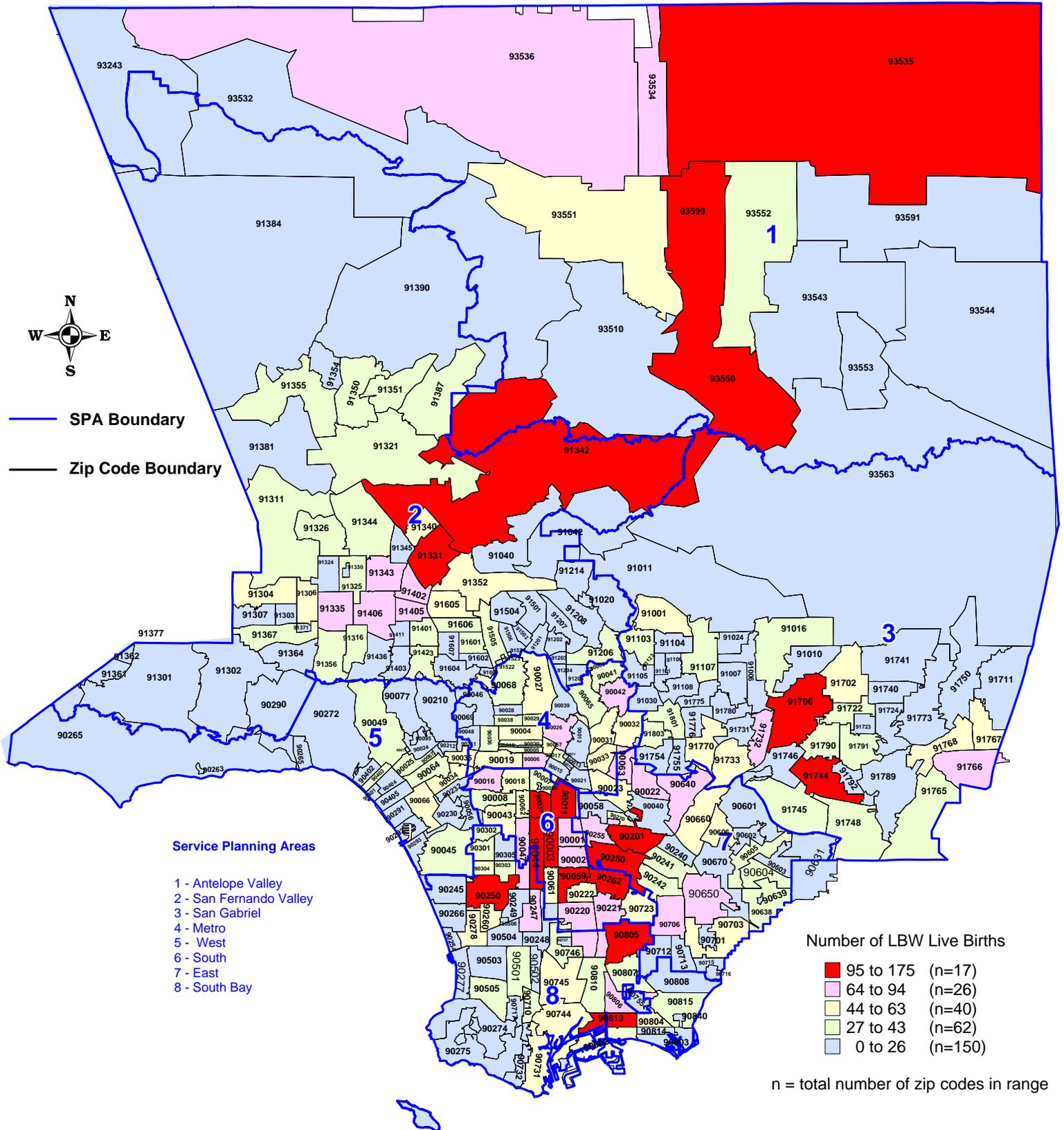
Year 2020 Objective: Reduce low birthweight births to an incidence of no more than 7.8 percent of live births.

Note: Low birthweight is defined as weight less than 2,500 grams at birth.

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2009.

Number of Low Birthweight (LBW) Live Births by Zip Code* and Service Planning Area (SPA)

Los Angeles County, 2009



*Los Angeles County zip code boundaries as of April 2007

Total number of live births in Los Angeles County, 2009 = 139,679

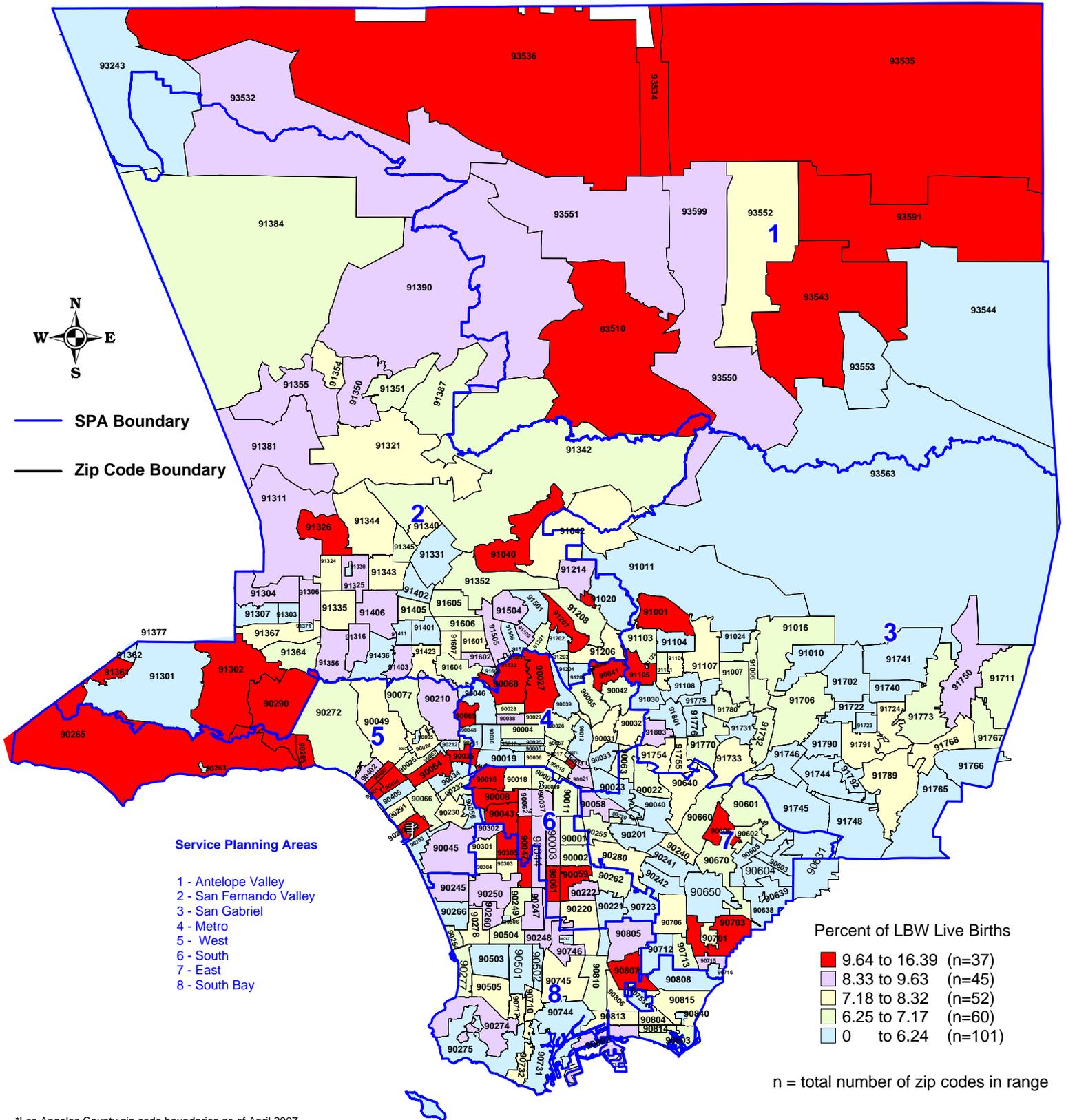
Total number of low birthweight live births in Los Angeles County, 2009 = 10,139

Note: Low birthweight is defined as weight less than 2,500 grams at birth.

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2009.

Percent of Low Birthweight (LBW) Live Births by Zip Code* and Service Planning Area (SPA)

Los Angeles County, 2009



*Los Angeles County zip code boundaries as of April 2007
 Total number of live births in Los Angeles County, 2009 = 139,679
 Total number of low birthweight live births in Los Angeles County, 2009 = 10,139
 Percent of low birthweight live births per 100 live births in Los Angeles County, 2009 = 7.3
 Year 2010 Objective: Reduce low birthweight births to an incidence of no more than 5 percent of live births.
 Year 2020 Objective: Reduce low birthweight births to an incidence of no more than 7.8 percent of live births.
 Note: Percent of low birthweight is defined as weight less than 2,500 grams at birth per 100 live births.
 Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2009.

Very Low Birthweight

TITLE V INDICATOR TEMPLATE

INDICATOR: Percent of Very Low Birthweight

DEFINITION: The percent of live births weighing less than 1,500 grams

NUMERATOR: The number of live births weighing less than 1,500 grams, by place of residence, in a calendar year

DENOMINATOR: The total number of live births, by place of residence, in a calendar year

HEALTHY PEOPLE 2010 OBJECTIVE:

Reduce very low birthweight births to an incidence of no more than 0.9 percent of live births.
(Baseline: 1.4 percent in 1998) (Objective 16-10b)

HEALTHY PEOPLE 2020 OBJECTIVE:

Reduce very low birthweight births to an incidence of no more than 1.4 percent of live births.
(Baseline: 1.5 percent in 2007) (Objective MICH-8.2)

RISK FACTORS:

Preterm birth, prior preterm birth; race/ethnicity (African American, Puerto Rican); substance use/abuse (e.g. illicit drug use)

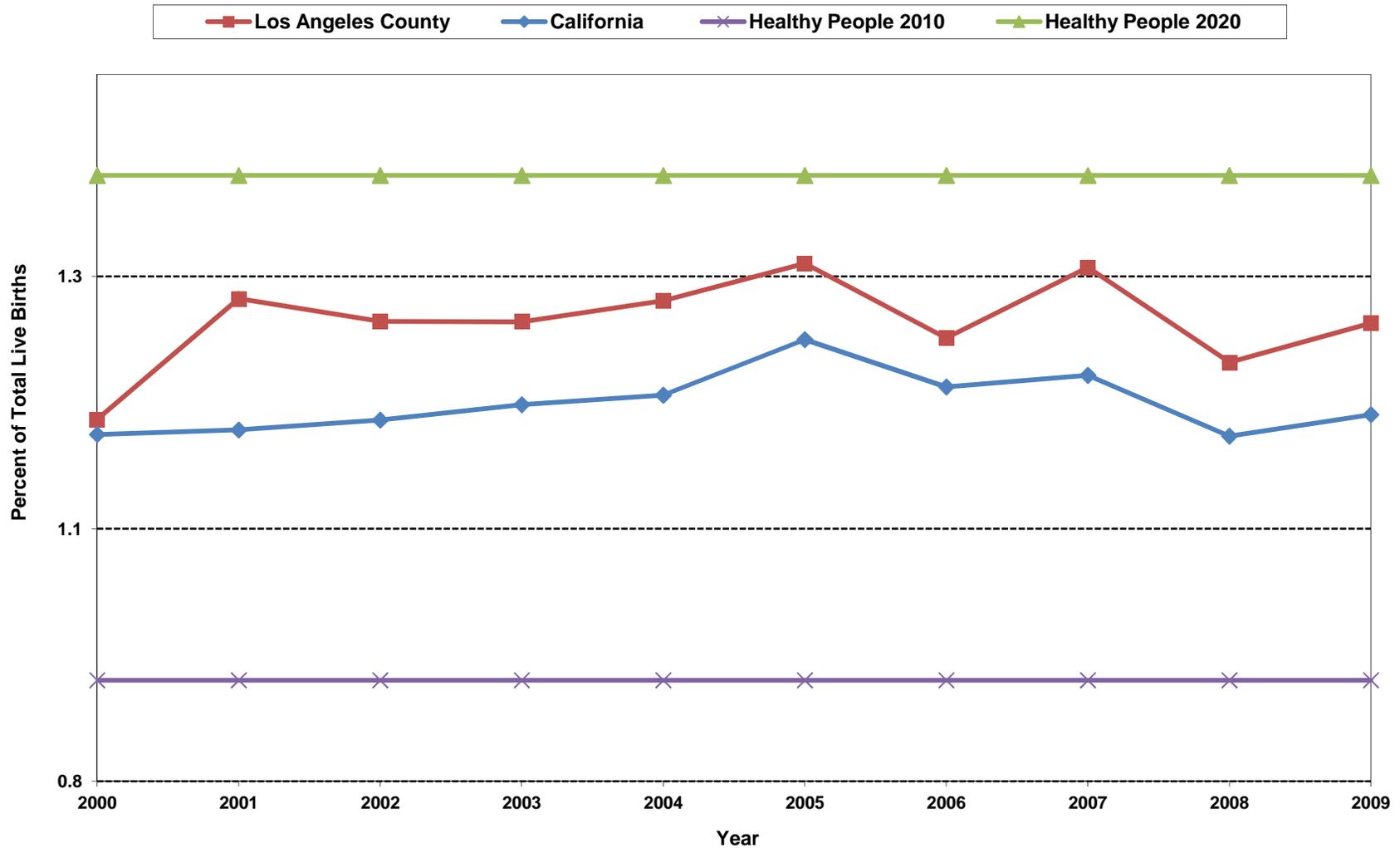
See also risk factors for low birthweight

Year	California				Los Angeles County			
	Very Low Birthweight		95% Confidence Interval		Very Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper
2000	6,075	1.1	1.1	1.2	1,823	1.2	1.1	1.2
2001	6,054	1.1	1.1	1.2	1,962	1.3	1.2	1.3
2002	6,127	1.2	1.1	1.2	1,898	1.3	1.2	1.3
2003	6,344	1.2	1.1	1.2	1,910	1.3	1.2	1.3
2004	6,440	1.2	1.2	1.2	1,933	1.3	1.2	1.3
2005	6,790	1.2	1.2	1.3	1,974	1.3	1.3	1.4
2006	6,693	1.2	1.2	1.2	1,881	1.2	1.2	1.3
2007	6,805	1.2	1.2	1.2	1,987	1.3	1.3	1.4
2008	6,298	1.1	1.1	1.2	1,794	1.2	1.2	1.3
2009	6,127	1.2	1.1	1.2	1,751	1.3	1.2	1.3

Denominator: Live Births		
Year	California	LA County
2000	531,285	157,391
2001	527,371	153,523
2002	529,245	151,167
2003	540,827	152,192
2004	544,685	151,504
2005	548,700	150,377
2006	562,157	151,837
2007	566,137	151,813
2008	551,567	147,684
2009	526,774	139,679

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2000-2009.

Percent of Very Low Birthweight California vs. Los Angeles County, 2000-2009

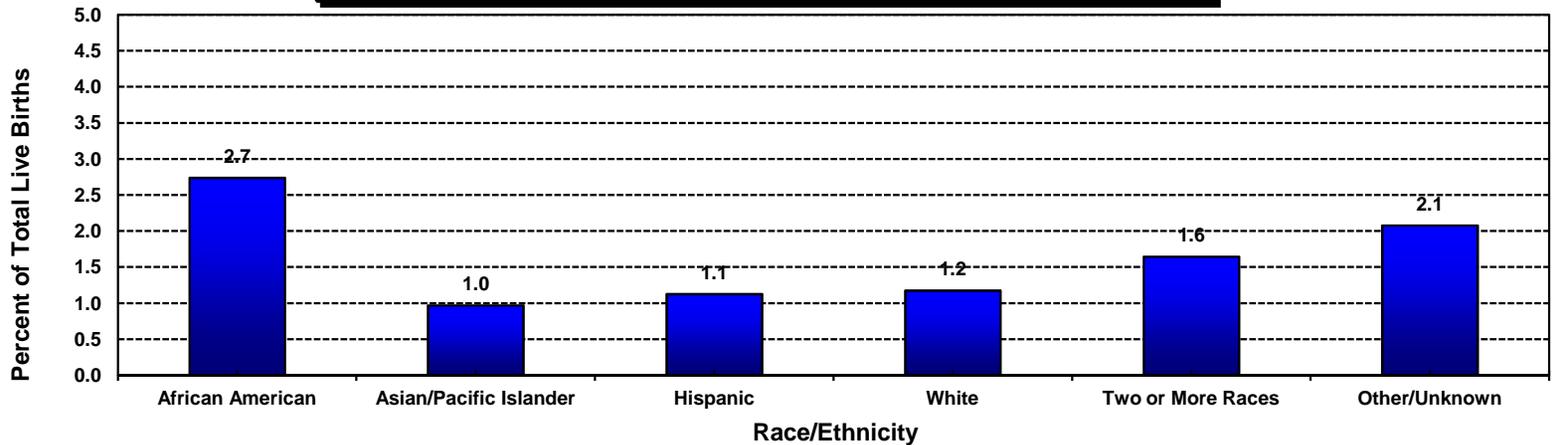


Year 2010 Objective: Reduce very low birthweight births to an incidence of no more than 0.9 percent of live births.

Year 2020 Objective: Reduce very low birthweight births to an incidence of no more than 1.4 percent of live births.

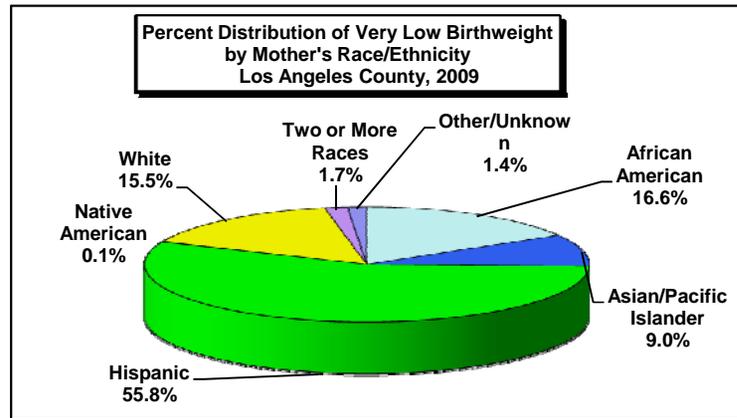
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2000-2009.

**Very Low Birthweight Live Births, as Percent of Total Live Births
by Mother's Race/Ethnicity
Los Angeles County, 2009**



Los Angeles County, 2009				
Mother's Race/Ethnicity	Very Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper
African American	290	2.7	2.4	3.0
Asian/Pacific Islander	157	1.0	0.8	1.1
Hispanic	977	1.1	1.1	1.2
Native American	<5	N/C	N/C	N/C
White	272	1.2	1.0	1.3
Two or More Races	29	1.6	1.1	2.2
Other/Unknown	24	2.1	1.3	2.9
Total	1,751	1.3	1.2	1.3

Total Live Births
10,589
16,179
86,642
202
23,150
1,762
1,155
139,679



Year 2010 Objective: Reduce very low birthweight births to an incidence of no more than 0.9 percent of live births.

Year 2020 Objective: Reduce very low birthweight births to an incidence of no more than 1.4 percent of live births.

Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

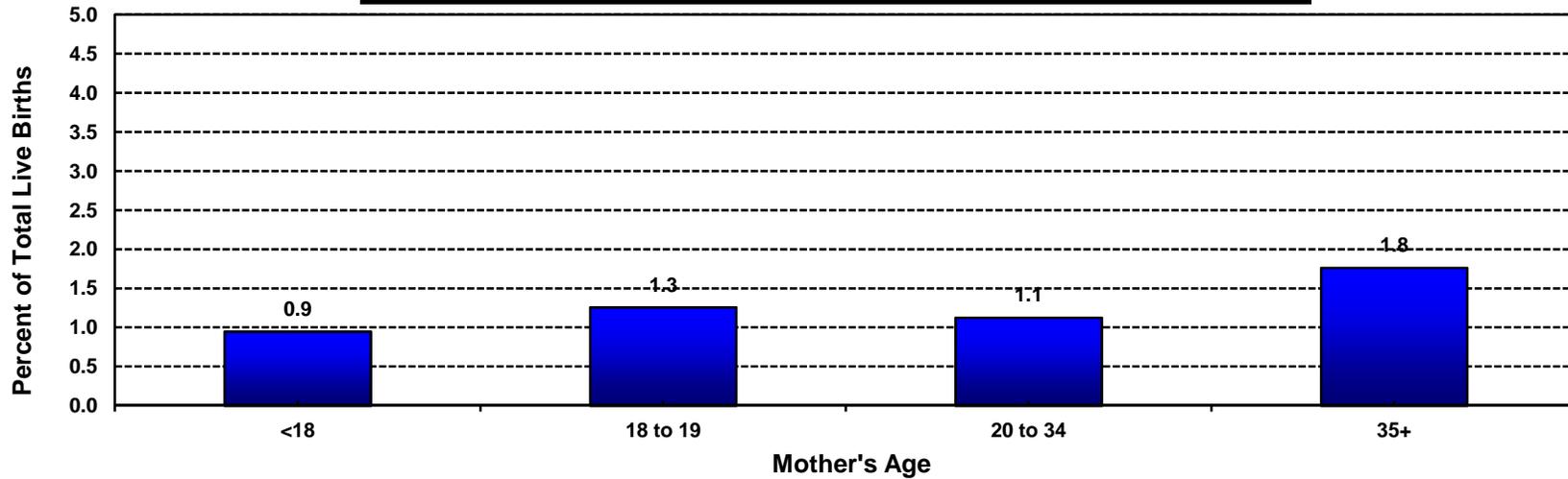
Racial/ethnic categorization has been revised in this report; data from previous year reports may not be comparable.

African American, Asian/Pacific Islander, Native American, White and other races exclude Hispanic ethnicity. Hispanic includes any race category.

Numbers fewer than 5 are shown as "<5". Rates are not calculated (N/C) if number is fewer than five.

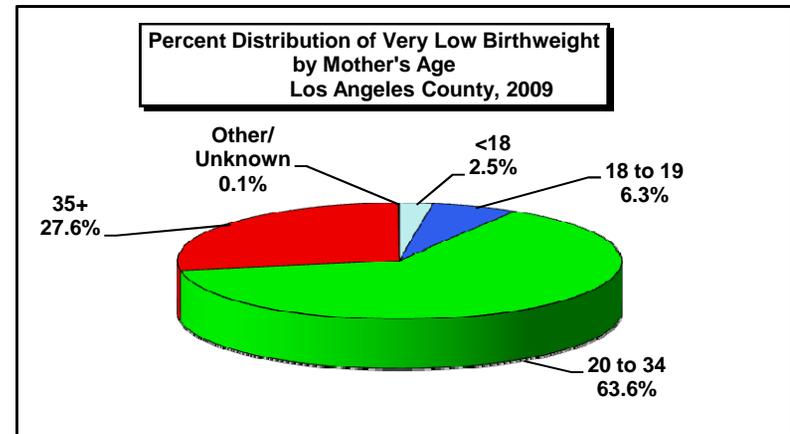
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2009.

**Very Low Birthweight Live Births, as Percent of Total Live Births
by Mother's Age
Los Angeles County, 2009**



Los Angeles County, 2009				
Mother's Age	Very Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper
<18	43	0.9	0.7	1.2
18 to 19	110	1.3	1.0	1.5
20 to 34	1,114	1.1	1.1	1.2
35+	483	1.8	1.6	1.9
Other/Unknown	<5	N/C	N/C	N/C
Total	1,751	1.3	1.2	1.3

Total Live Births
4,539
8,739
98,993
27,396
12
139,679



Year 2010 Objective: Reduce very low birthweight births to an incidence of no more than 0.9 percent of live births.

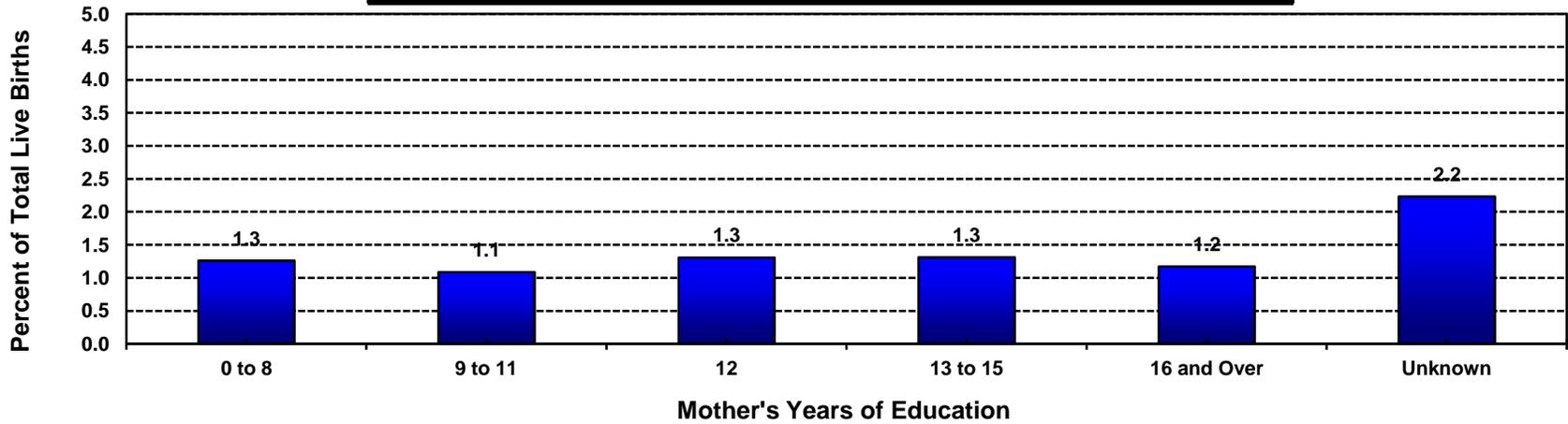
Year 2020 Objective: Reduce very low birthweight births to an incidence of no more than 1.4 percent of live births.

Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

Numbers fewer than 5 are shown as "<5". Rates are not calculated (N/C) if number is fewer than five.

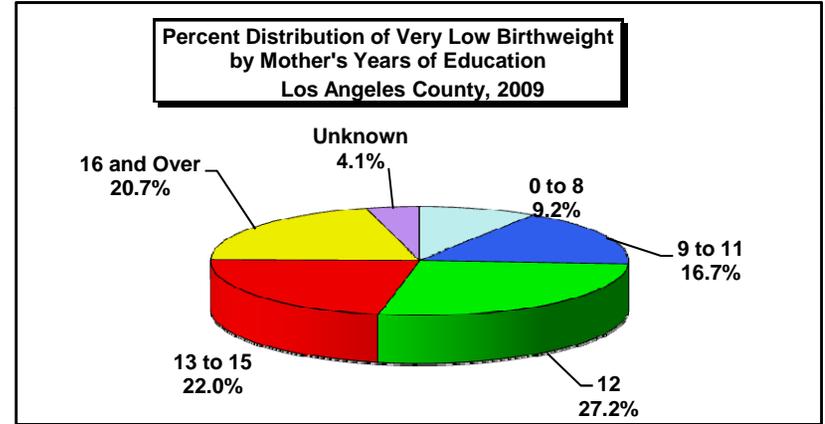
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2009.

**Very Low Birthweight Live Births, as Percent of Total Live Births
by Mother's Years of Education
Los Angeles County, 2009**



Los Angeles County, 2009				
Mother's Years of Education	Very Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper
0 to 8	161	1.3	1.1	1.5
9 to 11	293	1.1	1.0	1.2
12	477	1.3	1.2	1.4
13 to 15	386	1.3	1.2	1.4
16 and Over	362	1.2	1.1	1.3
Unknown	72	2.2	1.7	2.7
Total	1,751	1.3	1.2	1.3

Total Live Births
12,765
26,920
36,442
29,445
30,885
3,222
139,679



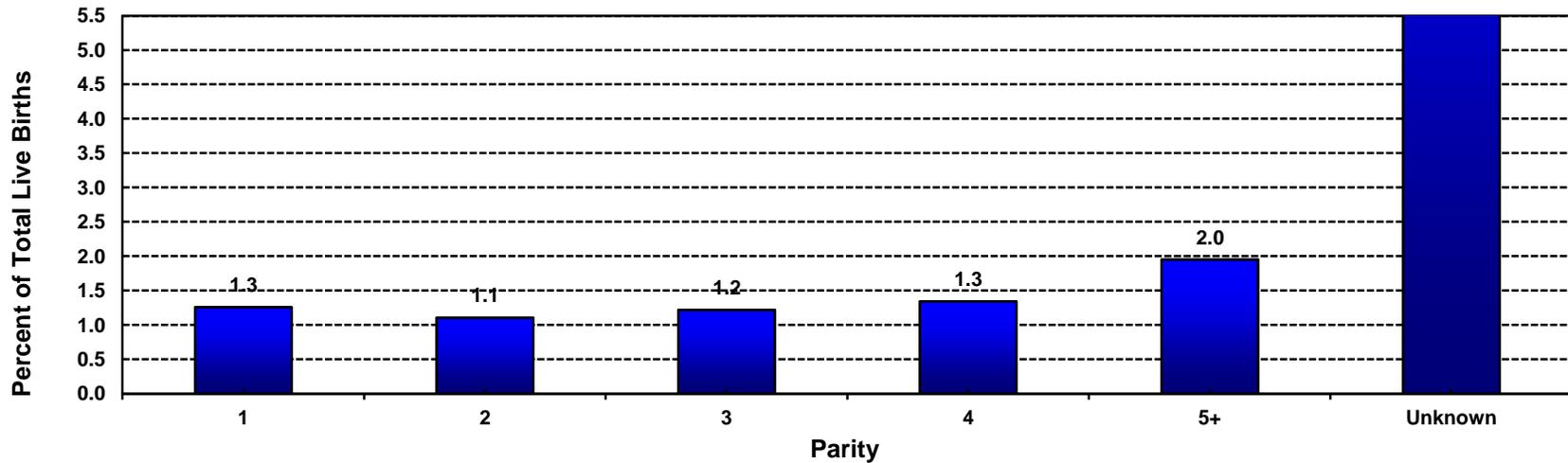
Year 2010 Objective: Reduce very low birthweight births to an incidence of no more than 0.9 percent of live births.

Year 2020 Objective: Reduce very low birthweight births to an incidence of no more than 1.4 percent of live births.

Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

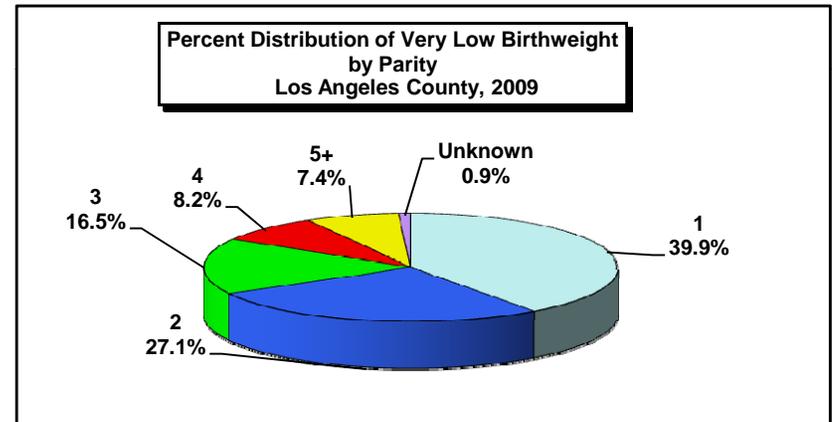
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2009.

**Very Low Birthweight Live Births, as Percent of Total Live Births
by Parity
Los Angeles County, 2009**



Los Angeles County, 2009				
Parity	Very Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper
1	699	1.3	1.2	1.4
2	474	1.1	1.0	1.2
3	289	1.2	1.1	1.4
4	144	1.3	1.1	1.6
5+	129	2.0	1.6	2.3
Unknown	16	11.0	5.9	16.1
Total	1,751	1.3	1.2	1.3

Total Live Births
55,574
42,906
23,724
10,720
6,610
145
139,679



Year 2010 Objective: Reduce very low birthweight births to an incidence of no more than 0.9 percent of live births.

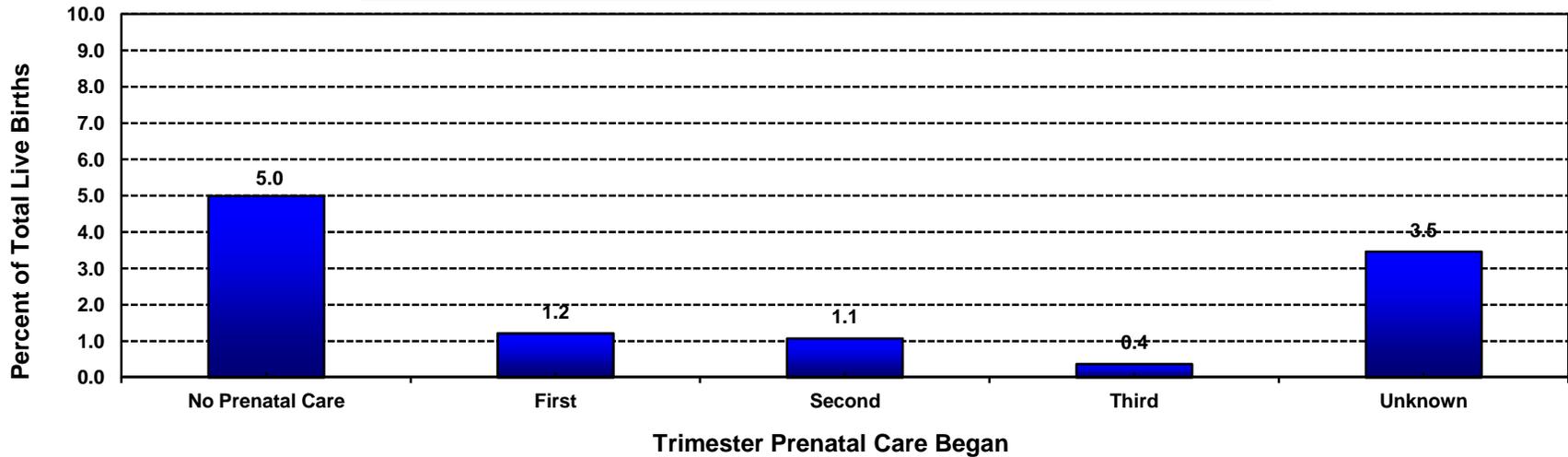
Year 2020 Objective: Reduce very low birthweight births to an incidence of no more than 1.4 percent of live births.

Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

Parity = number of pregnancies resulting in live births to a woman.

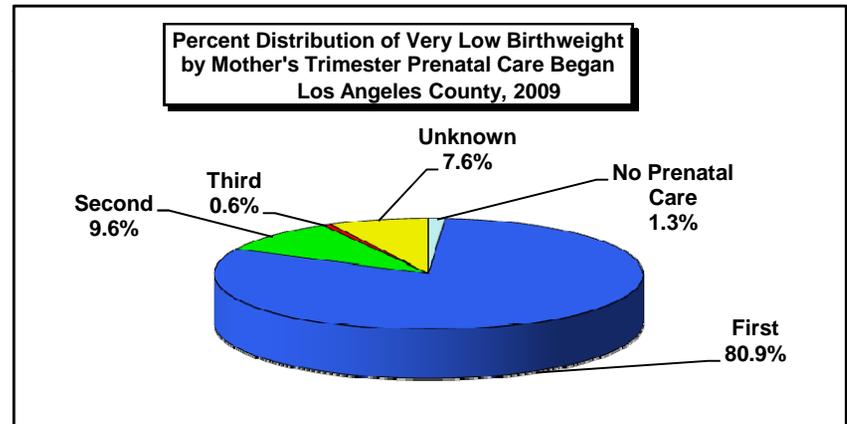
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2009.

**Very Low Birthweight Live Births, as Percent of Total Live Births
by Mother's Trimester Prenatal Care (PNC) Began
Los Angeles County, 2009**



Los Angeles County, 2009				
Mother's Trimester Prenatal Care Began	Very Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper
No Prenatal Care	22	5.0	3.0	7.0
First	1,417	1.2	1.2	1.3
Second	168	1.1	0.9	1.2
Third	11	0.4	0.1	0.6
Unknown	133	3.5	2.9	4.0
Total	1,751	1.3	1.2	1.3

Total Live Births
440
116,717
15,666
3,014
3,842
139,679



Year 2010 Objective: Reduce very low birthweight births to an incidence of no more than 0.9 percent of live births.

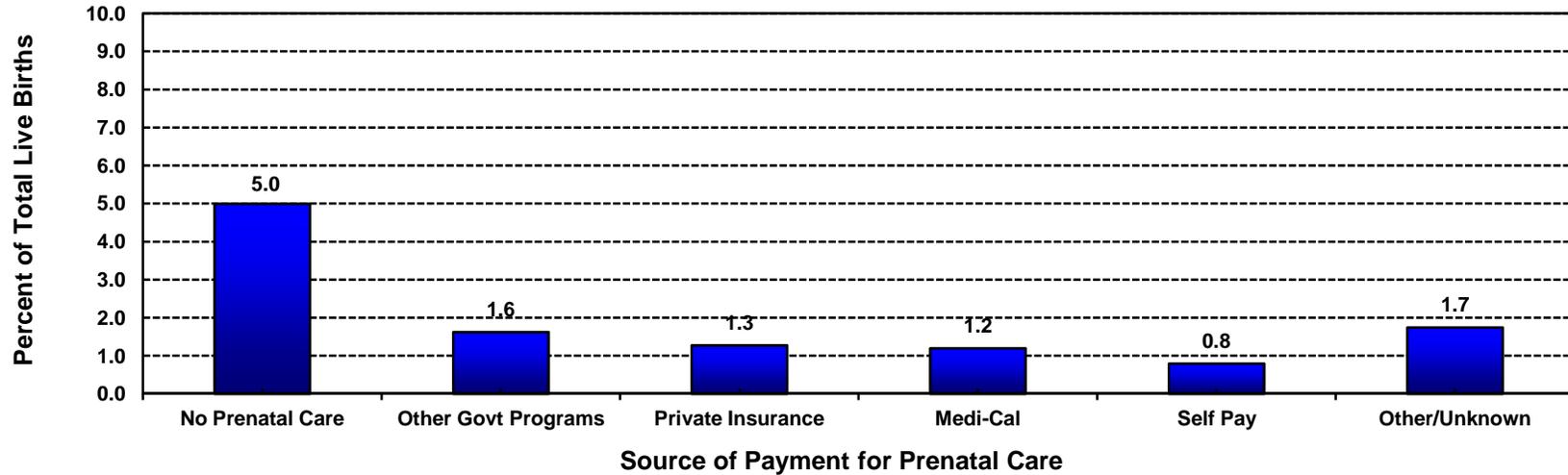
Year 2020 Objective: Reduce very low birthweight births to an incidence of no more than 1.4 percent of live births.

Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

"Trimester Prenatal Care (PNC) Began" excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

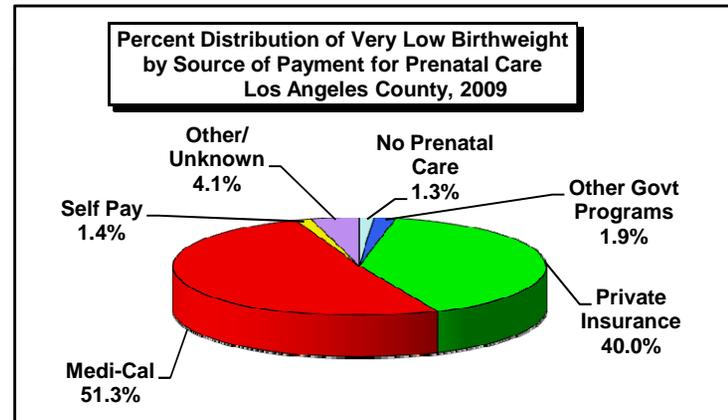
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2009.

**Very Low Birthweight Live Births, as Percent of Total Live Births
by Source of Payment for Prenatal Care (PNC)
Los Angeles County, 2009**



Los Angeles County, 2009				
Source of Payment for Prenatal Care	Very Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper
No Prenatal Care	22	5.0	3.0	7.0
Other Govt Programs	33	1.6	1.1	2.2
Private Insurance	700	1.3	1.2	1.4
Medi-Cal	899	1.2	1.1	1.3
Self Pay	24	0.8	0.5	1.1
Other/Unknown	73	1.7	1.3	2.1
Total	1,751	1.3	1.2	1.3

Total Live Births
440
2,034
54,949
75,061
3,012
4,183
139,679



Year 2010 Objective: Reduce very low birthweight births to an incidence of no more than 0.9 percent of live births.

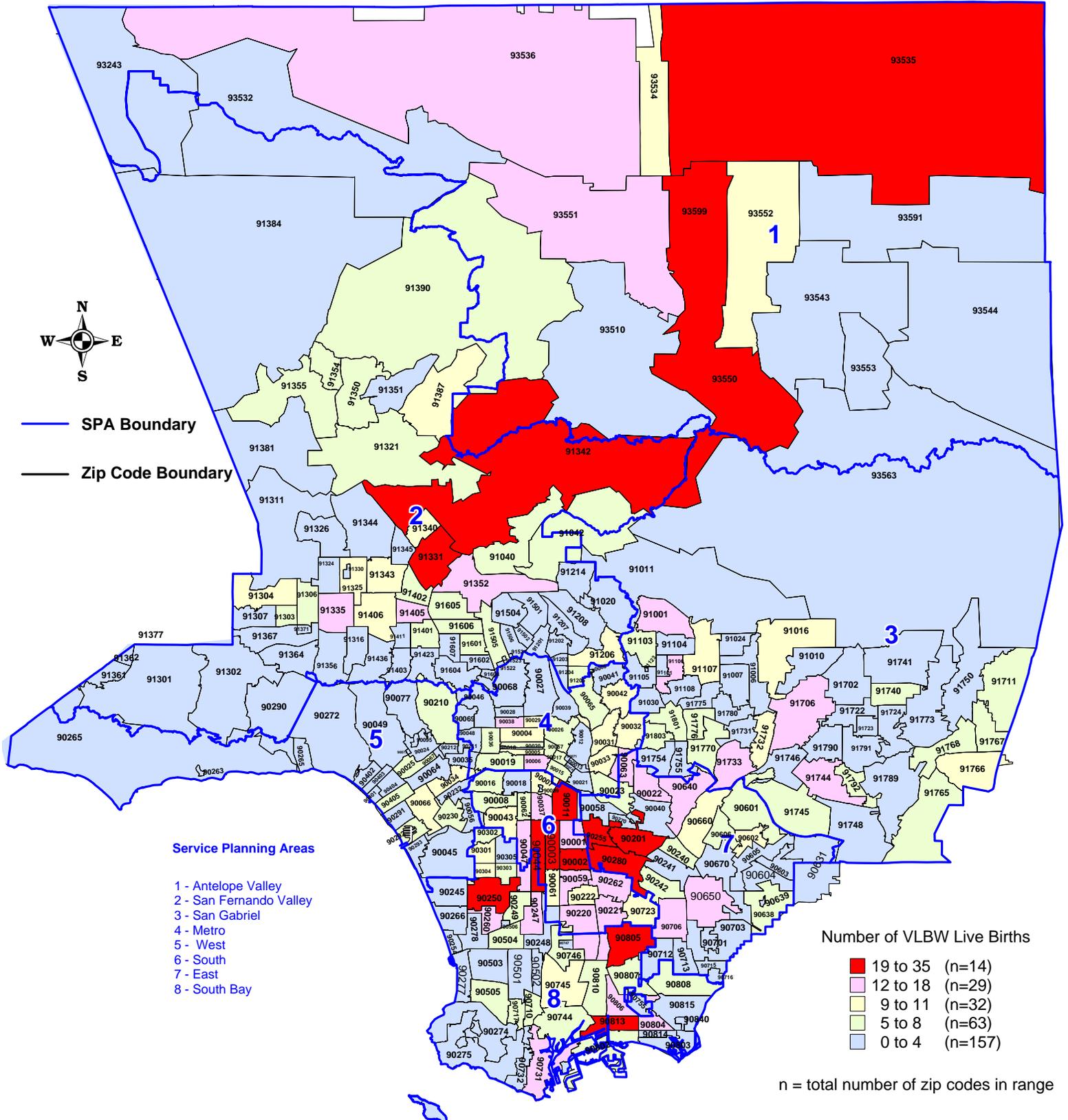
Year 2020 Objective: Reduce very low birthweight births to an incidence of no more than 1.4 percent of live births.

Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2009.

Number of Very Low Birthweight (VLBW) Live Births by Zip Code* and Service Planning Area (SPA)

Los Angeles County, 2009



n = total number of zip codes in range

*Los Angeles County zip code boundaries as of April 2007

Total number of live births in Los Angeles County, 2009 = 139,679

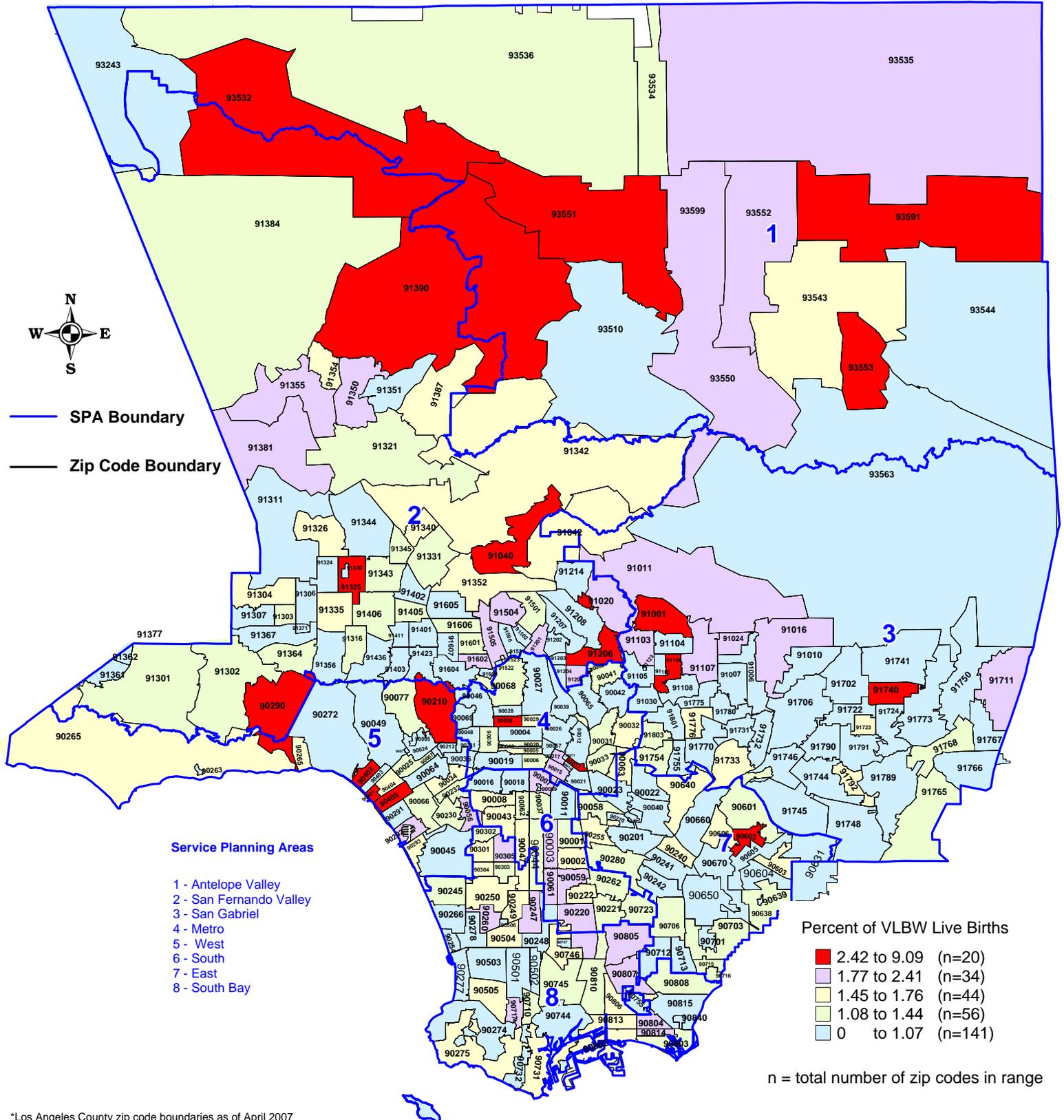
Total number of very low birthweight live births in Los Angeles County, 2009 = 1,751

Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2009.

Percent of Very Low Birthweight (VLBW) Live Births by Zip Code* and Service Planning Area (SPA)

Los Angeles County, 2009



*Los Angeles County zip code boundaries as of April 2007
 Total number of live births in Los Angeles County, 2009 = 139,679
 Total number of very low birthweight live births in Los Angeles County, 2009 = 1,751
 Percent of very low birthweight live births per 100 live births in Los Angeles County, 2009 = 1.3
 Year 2010 Objective: Reduce very low birthweight births to an incidence of no more than 0.9 percent of live births.
 Year 2020 Objective: Reduce very low birthweight births to an incidence of no more than 1.4 percent of live births.
 Note: Very low birthweight is defined as weight less than 1,500 grams at birth per 100 live births.
 Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2009.