

Cesarean Births

Cesarean Live Births

INDICATOR: Cesarean births

DEFINITION: The proportion of live births delivered via Cesarean section (c-section)

NUMERATOR: The number of Cesarean live births, by place of residence, in a calendar year

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

RISK FACTORS: Older maternal age, previous c-section, pregnancy complications, sexually transmitted disease, obesity, diabetes, extreme neonatal birth weight

Year	California				Los Angeles County			
	Total C-Section Live Births		95% Confidence Interval		Total C-Section Live Births		95% Confidence Interval	
	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper
2004	159,413	29.3%	24.7%	33.4%	48,398	31.9%	27.2%	35.5%
2005	168,274	30.7%	26.0%	34.9%	51,596	34.3%	29.4%	38.1%
2006	175,943	31.3%	26.7%	35.6%	53,034	34.9%	30.0%	38.8%
2007	181,574	32.1%	27.4%	36.4%	54,431	35.9%	30.9%	39.8%
2008	179,626	32.6%	27.8%	37.0%	53,838	36.5%	31.4%	40.5%
2009	173,878	33.0%	28.1%	37.5%	51,813	37.1%	31.9%	41.3%
2010	168,379	33.0%	28.0%	37.6%	50,186	37.7%	32.4%	42.0%
2011	not available	N/C	N/C	N/C	48,864	37.5%	32.1%	41.9%
2012	not available	N/C	N/C	N/C	49,197	37.4%	32.0%	41.7%
2013	not available	N/C	N/C	N/C	47,834	37.2%	31.8%	41.6%

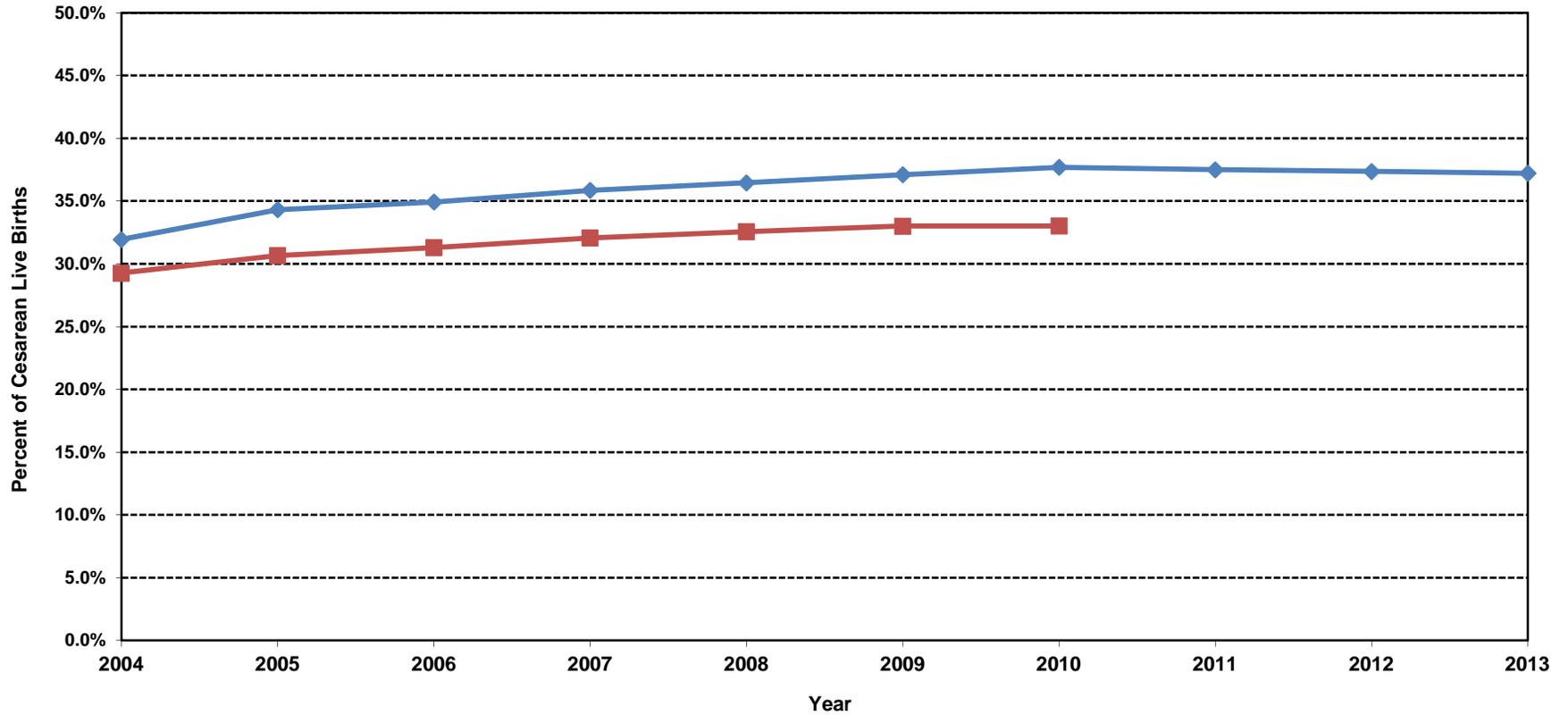
Denominator: Total Live Births		
Year	California	LA County
2003	544,685	151,504
2004	548,700	150,377
2005	562,157	151,837
2006	566,137	151,813
2007	551,567	147,684
2008	526,774	139,679
2009	509,979	133,160
2010	502,023	130,313
2011	503,788	131,697
2012	494,392	128,523

Note: California 2011-2013 type of delivery data is currently unavailable. Rates are not calculated (N/C).

Sources: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2003-2013.

Percent of Cesarean Live Births California vs. Los Angeles County, 2003-2013

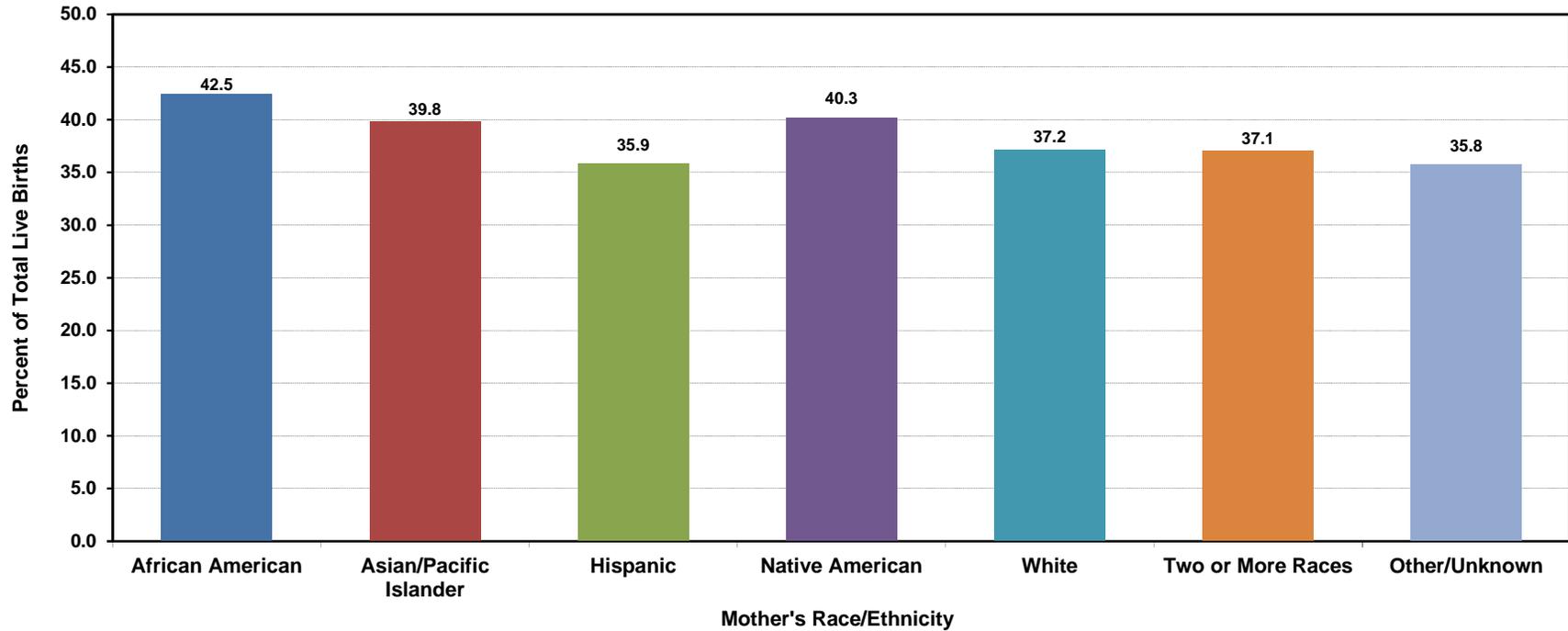
California Los Angeles County



Note: California 2011-2013 data on type of delivery is not available.

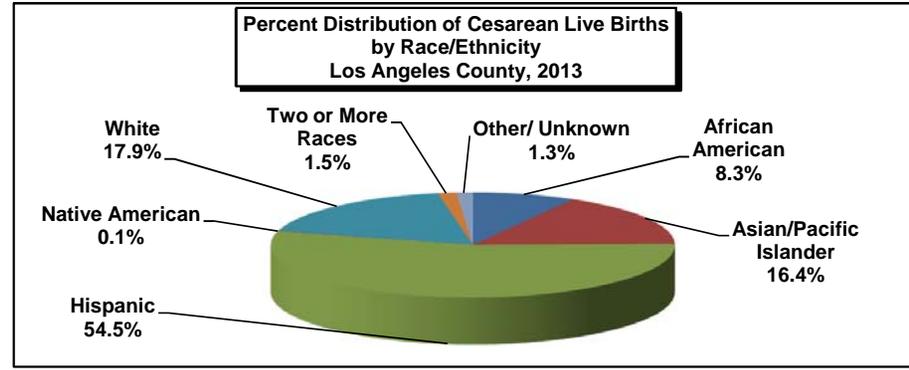
Sources: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2004-2013.

**Cesarean Live Births, as Percent of Total Live Births by Mother's Race/Ethnicity
Los Angeles County, 2013**



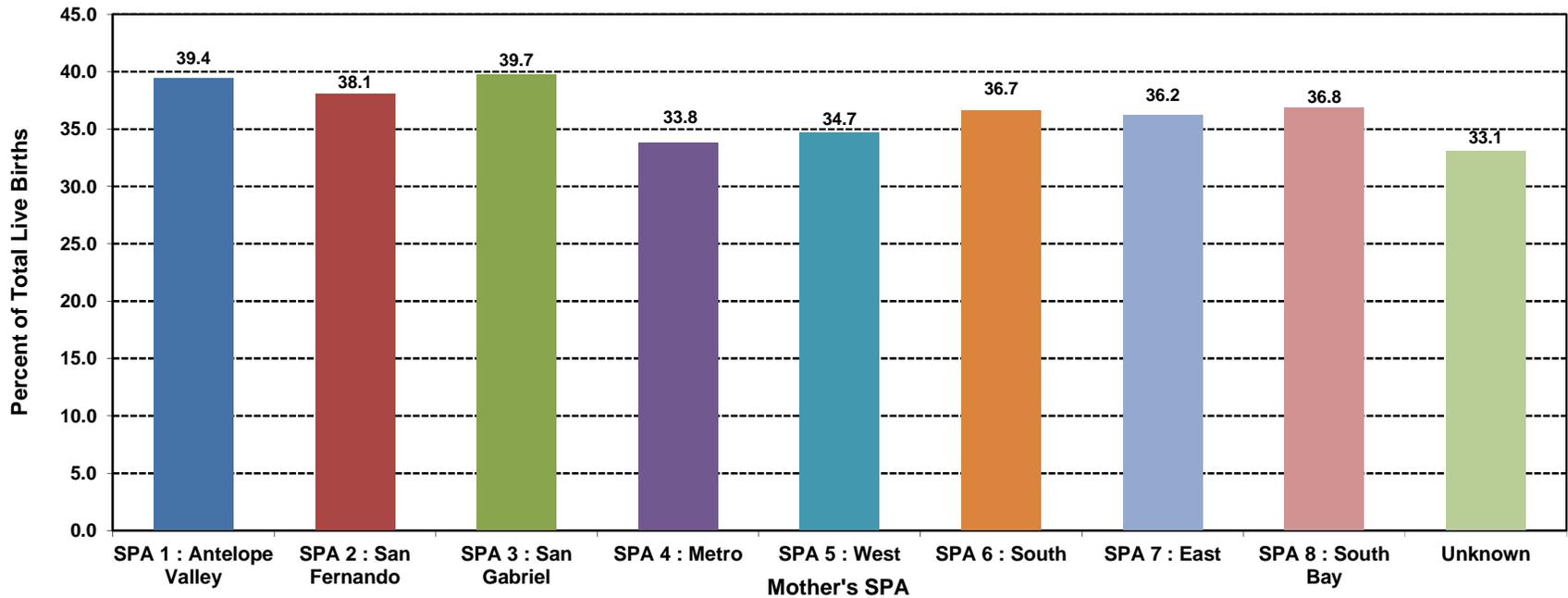
Mother's Race/Ethnicity	Los Angeles County, 2013			
	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
African American	3,960	42.5	41.5	43.5
Asian/Pacific Islander	7,852	39.8	39.1	40.5
Hispanic	26,065	35.9	35.5	36.2
Native American	64	40.3	32.6	47.9
White	8,552	37.2	36.6	37.8
Two or More Races	711	37.1	34.9	39.2
Other/Unknown	630	35.8	33.5	38.0
Total	47,834	37.2	37.0	37.5

Total Live Births
9,319
19,720
72,645
159
23,002
1,919
1,762
128,526



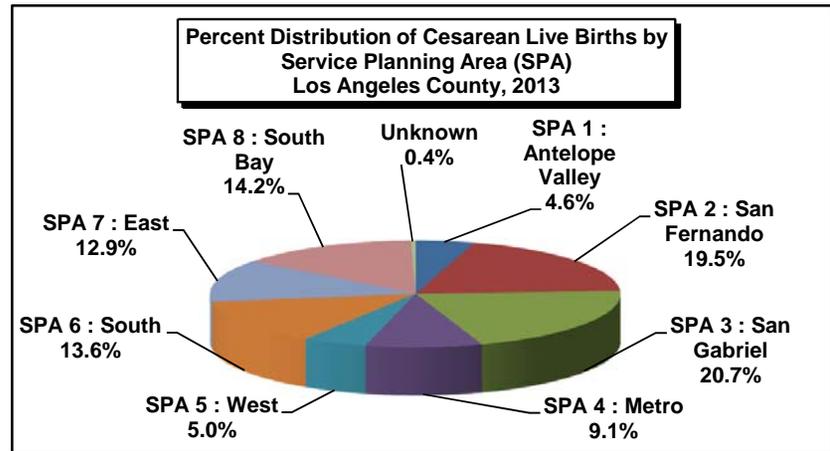
Note: Racial/ethnic categorization has been revised in this report; data from previous year reports may not be comparable. African American, Asian/Pacific Islander, Native American, White and other races exclude Hispanic ethnicity. Hispanic includes any race category.
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2013.

**Cesarean Live Births, as Percent of Total Live Births by Service Planning Area (SPA)
Los Angeles County, 2013**



Los Angeles County, 2013				
Service Planning Area (SPA)	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
SPA 1 : Antelope Valley	2,214	39.4	38.2	40.7
SPA 2 : San Fernando	9,315	38.1	37.5	38.7
SPA 3 : San Gabriel	9,892	39.7	39.1	40.4
SPA 4 : Metro	4,375	33.8	33.0	34.6
SPA 5 : West	2,399	34.7	33.6	35.9
SPA 6 : South	6,503	36.7	35.9	37.4
SPA 7 : East	6,187	36.2	35.5	37.0
SPA 8 : South Bay	6,775	36.8	36.1	37.5
Unknown	174	33.1	29.1	37.1
Total	47,834	37.2	37.0	37.5

Total Live Births
5,613
24,443
24,888
12,942
6,908
17,742
17,076
18,388
526
128,526

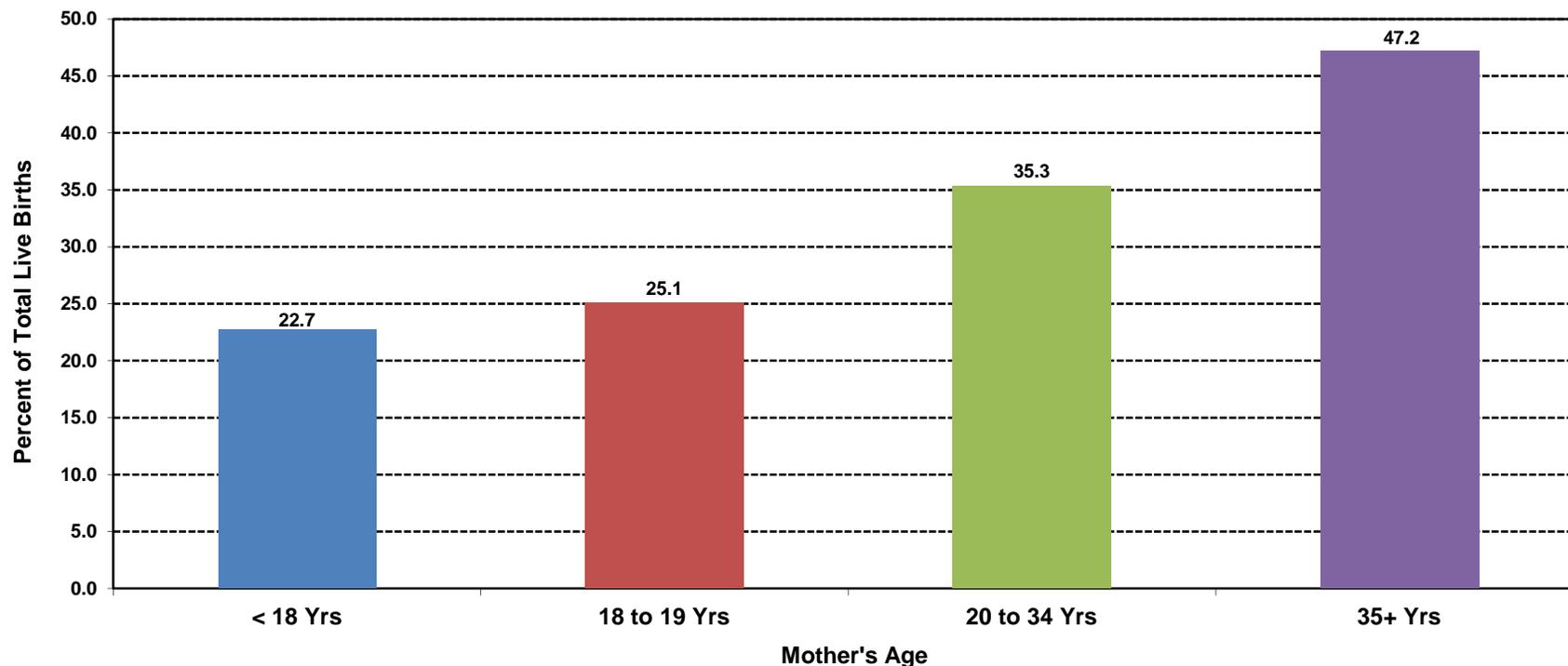


Note: SPA 8 includes Catalina Island.

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2013.

July 1, 2010 Population Estimates, prepared by Walter R. McDonald & Associates, Inc. (WRMA) for Urban Research, Los Angeles County ISD, released September 30, 2012.

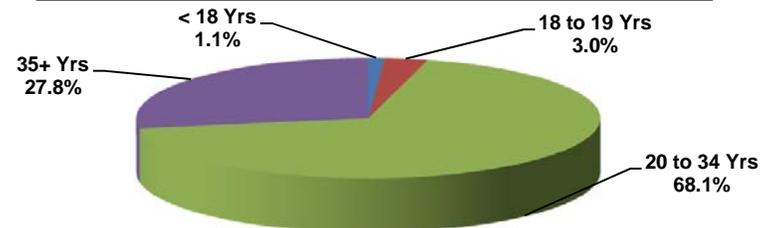
**Cesarean Live Births, as Percent of Total Live Births by Mother's Age
Los Angeles County, 2013**



Los Angeles County, 2013				
Mother's Age	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
< 18 Yrs	538	22.7	21.1	24.4
18 to 19 Yrs	1,450	25.1	24.0	26.2
20 to 34 Yrs	32,561	35.3	35.0	35.6
35+ Yrs	13,285	47.2	46.6	47.8
Total	47,834	37.2	37.0	37.5

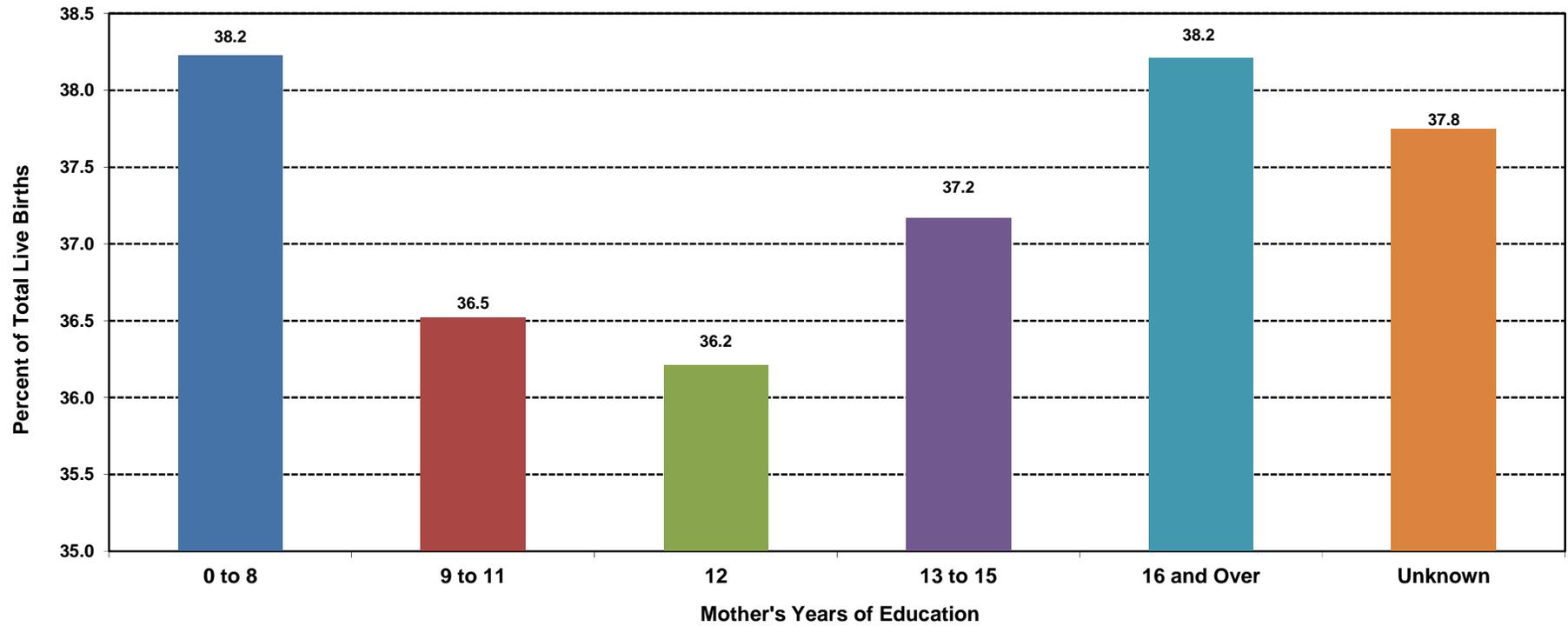
Total Live Births
2,365
5,782
92,205
28,163
128,526

**Percent Distribution of Cesarean Live Births by Mother's Age
Los Angeles County, 2013**



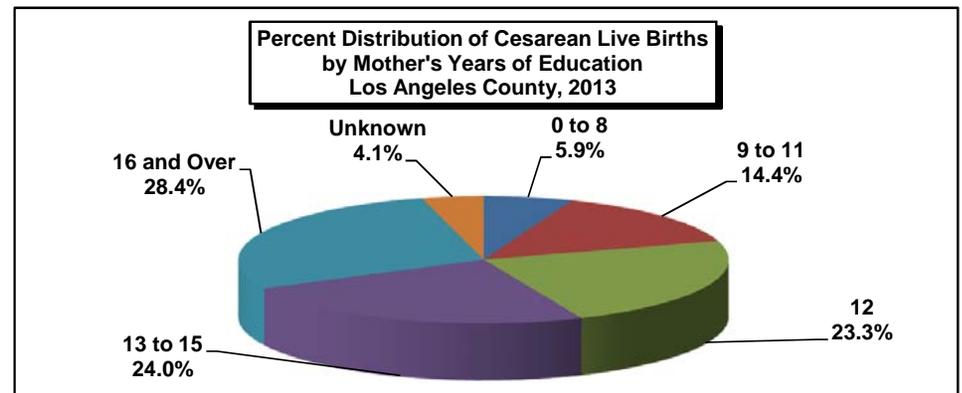
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2013.

**Cesarean Live Births, as Percent of Total Live Births by Mother's Years of Education
Los Angeles County, 2013**



Los Angeles County, 2013				
Mother's Years of Education	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
0 to 8	2,808	38.2	37.1	39.3
9 to 11	6,878	36.5	35.8	37.2
12	11,126	36.2	35.7	36.7
13 to 15	11,498	37.2	36.6	37.7
16 and Over	13,570	38.2	37.7	38.7
Unknown	1,954	37.8	36.4	39.1
Total	47,834	37.2	37.0	37.5

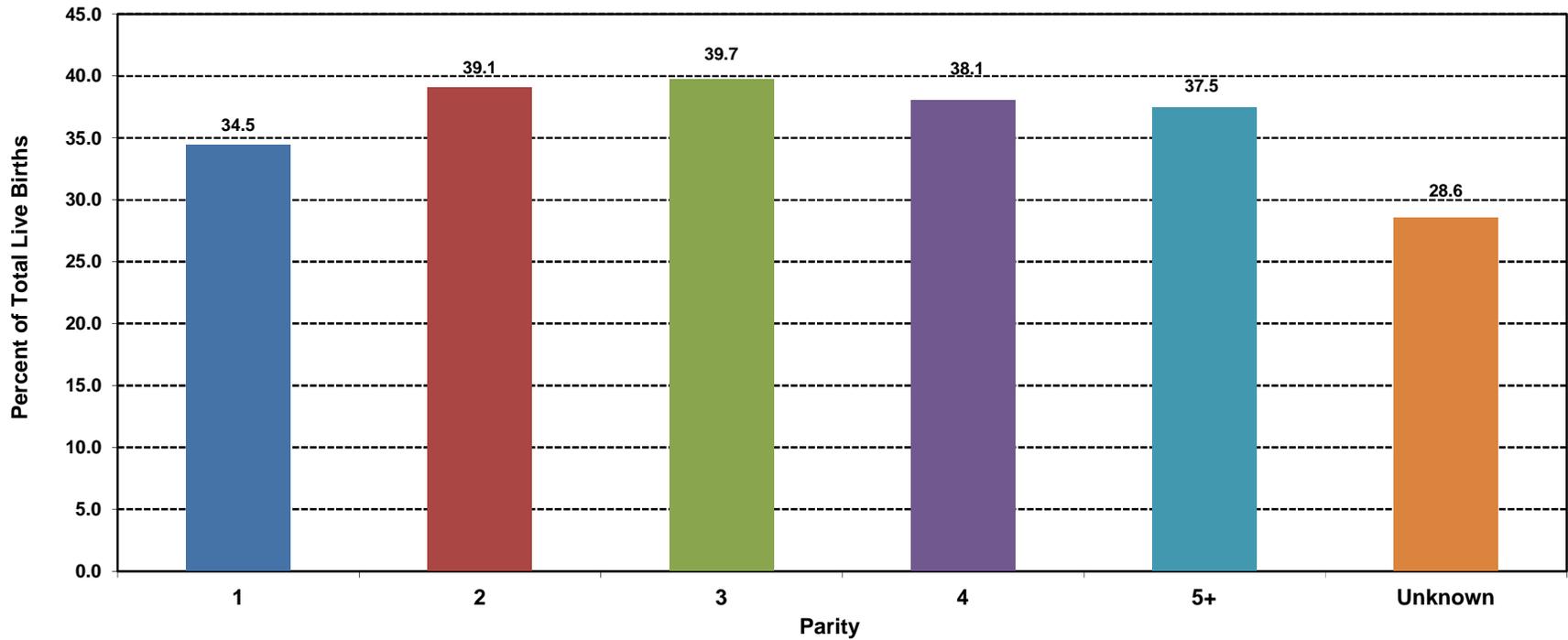
Total Live Births
7,345
18,833
30,726
30,932
35,514
5,176
128,526



Note: This analysis did not adjust for teen mothers who may not be old enough to have reached a higher categorical education level.

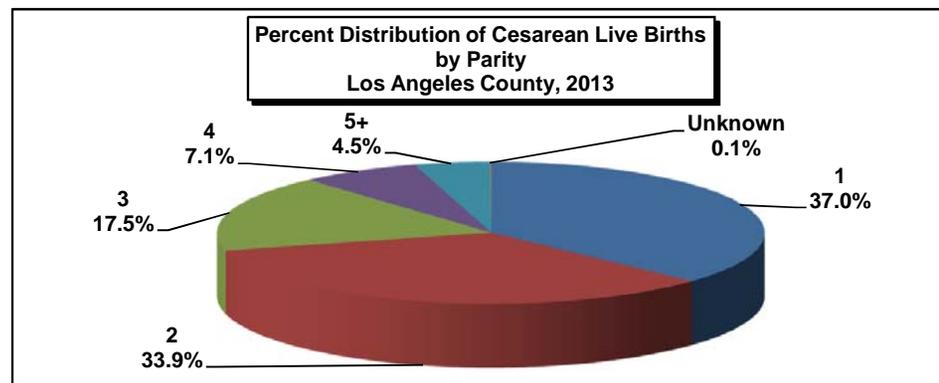
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2013.

**Cesarean Live Births, as Percent of Total Live Births by Parity
Los Angeles County, 2013**



Los Angeles County, 2013				
Parity	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
1	17,693	34.5	34.1	34.9
2	16,227	39.1	38.7	39.6
3	8,350	39.7	39.1	40.4
4	3,395	38.1	37.1	39.1
5+	2,139	37.5	36.2	38.7
Unknown	30	28.6	19.9	37.2
Total	47,834	37.2	37.0	37.5

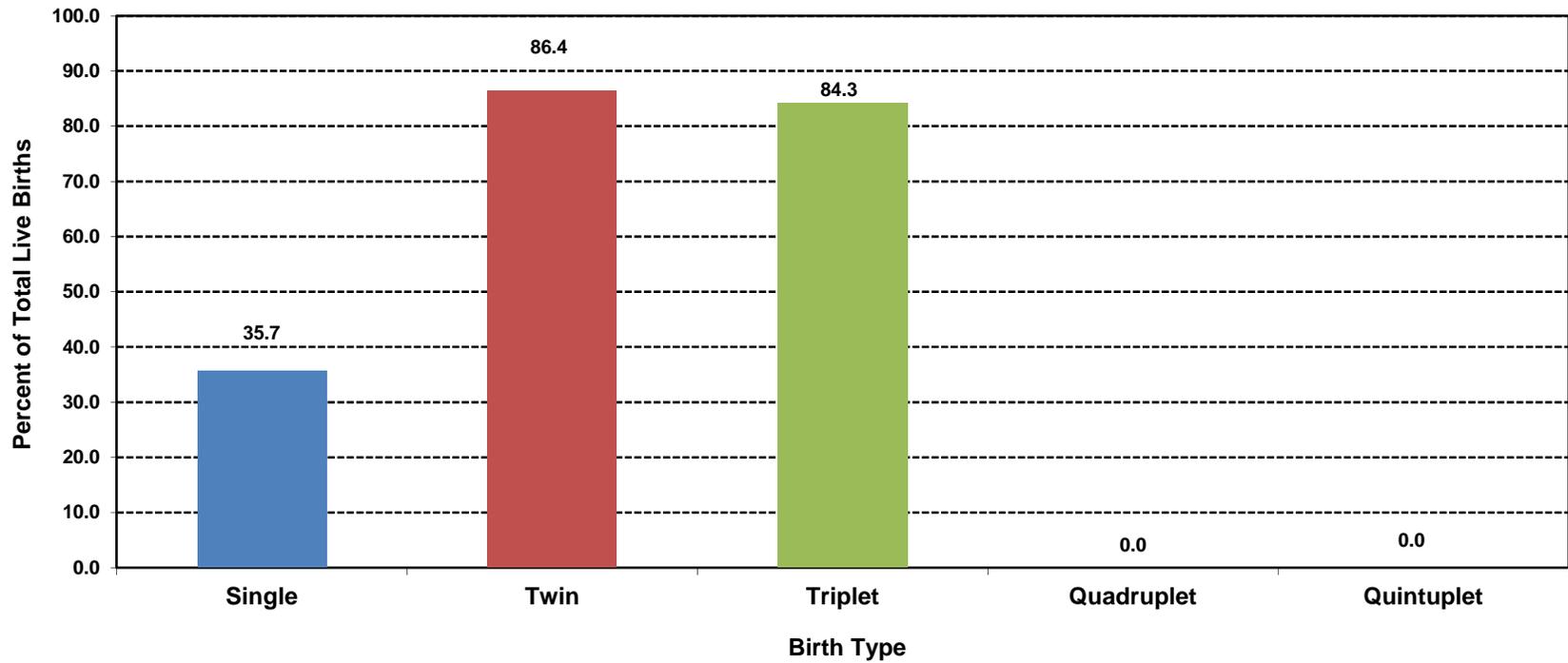
Total Live Births
51,310
41,474
21,014
8,914
5,709
105
128,526



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

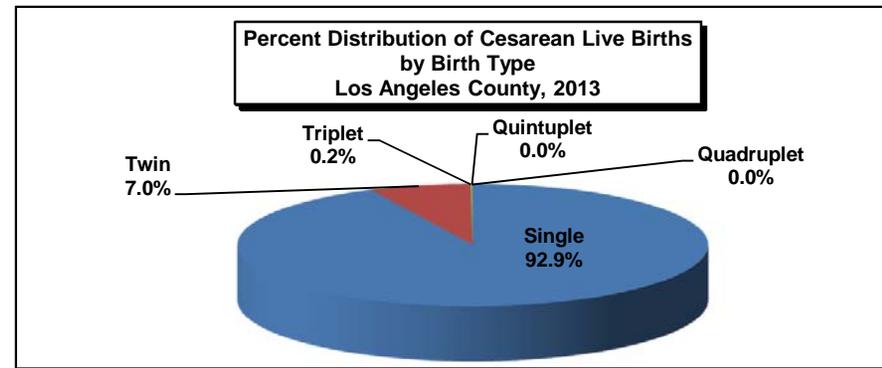
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2013.

**Cesarean Live Births, as Percent of Total Live Births by Birth Type
Los Angeles County, 2013**



Los Angeles County, 2013				
Birth Type	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Single	44,403	35.7	35.4	35.9
Twin	3,344	86.4	85.3	87.5
Triplet	75	84.3	76.7	91.8
Quadruplet	<5	N/C	N/C	N/C
Quintuplet	<5	N/C	N/C	N/C
Total	47,834	37.2	37.0	37.5

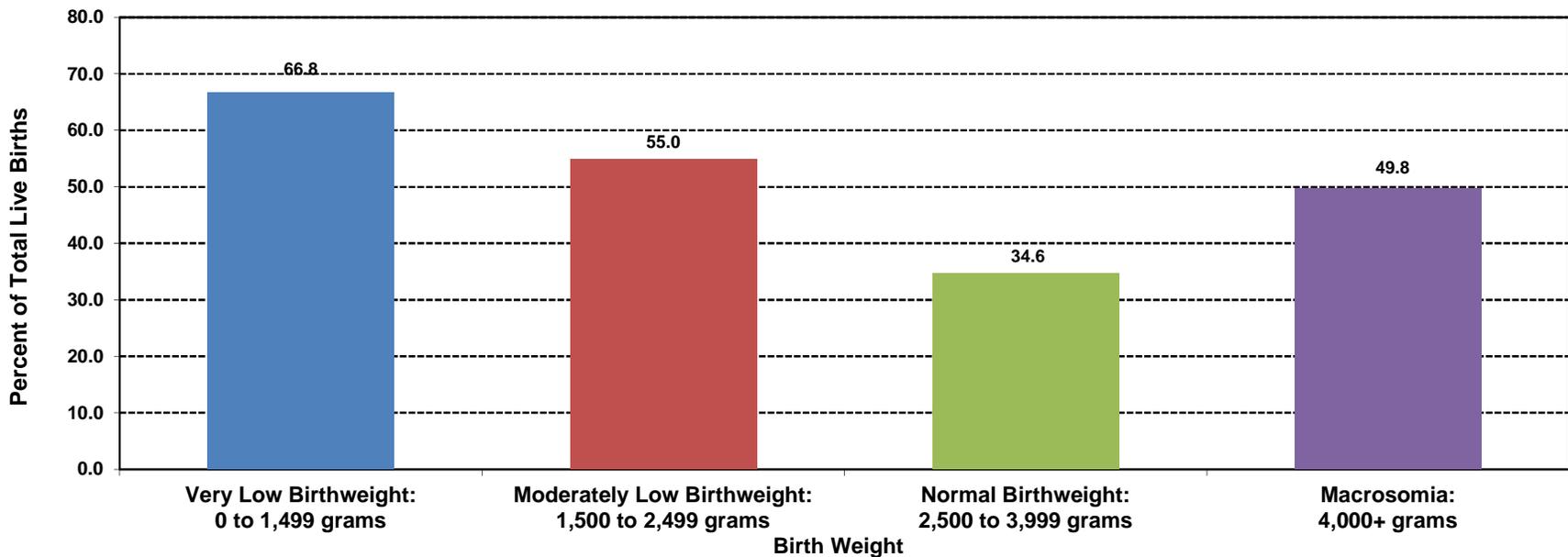
Total Live Births
124,550
3,871
89
<5
<5
128,526



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

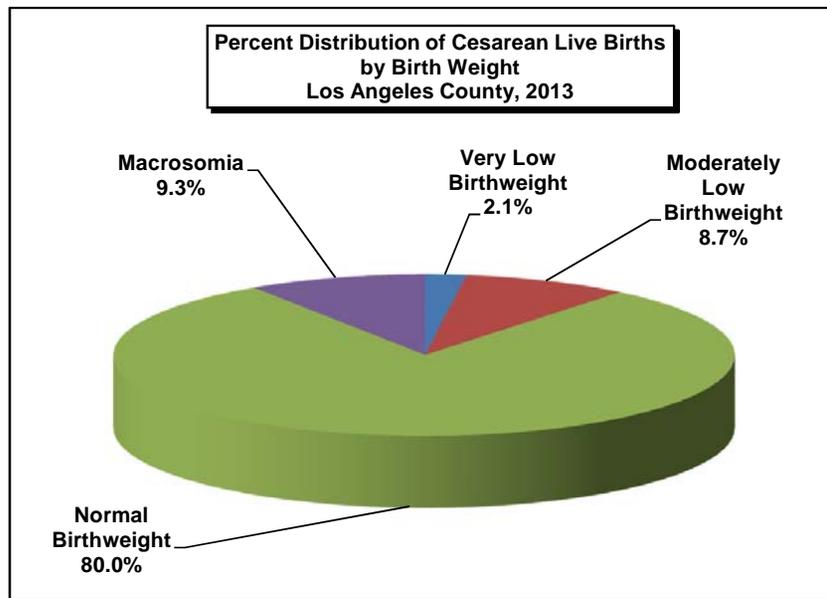
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2013.

**Cesarean Live Births, as Percent of Total Live Births by Birth Weight
Los Angeles County, 2013**



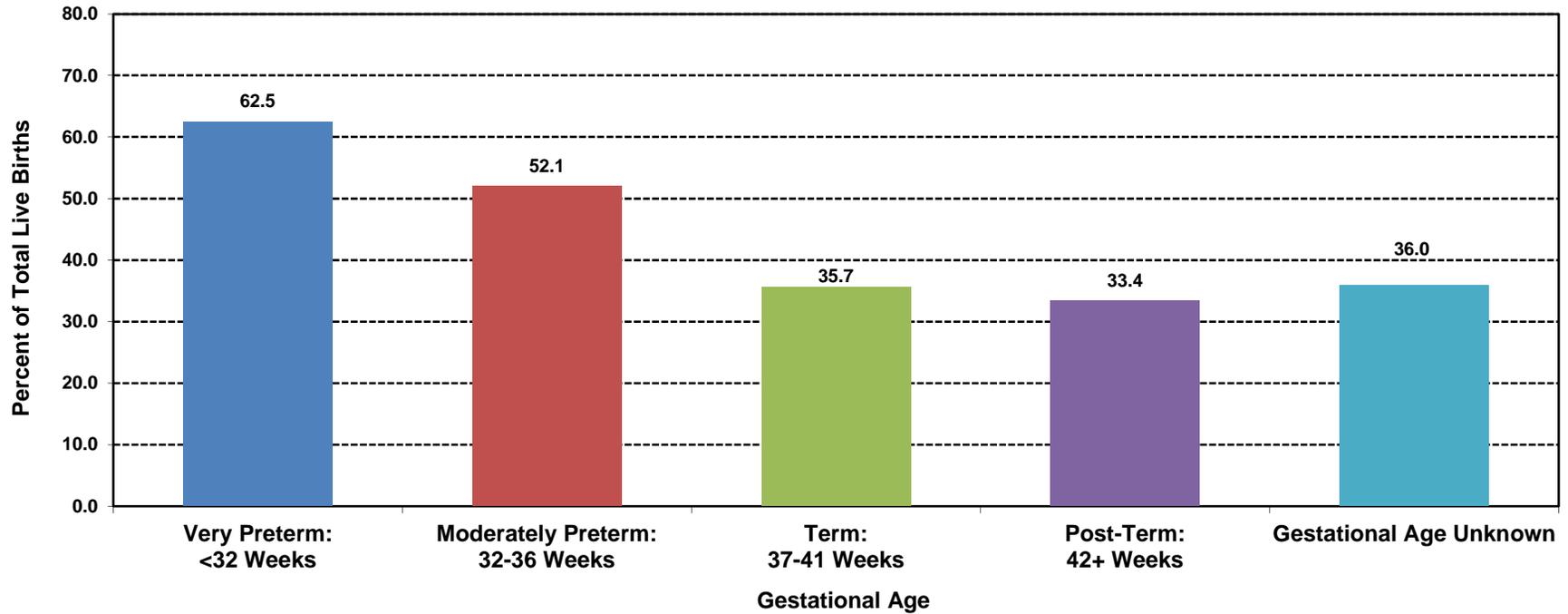
Los Angeles County, 2013				
Birthweight	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Very Low Birthweight: 0 to 1,499 grams	1,020	66.8	64.4	69.1
Moderately Low Birthweight: 1,500 to 2,499 grams	4,141	55.0	53.9	56.1
Normal Birthweight: 2,500 to 3,999 grams	38,283	34.6	34.3	34.9
Macrosomia: 4,000+ grams	4,435	49.8	48.7	50.8
Unknown	<5	N/C	N/C	N/C
Total	47,834	37.2	37.0	37.5

Total Live Births
1,528
7,530
110,552
8,912
<5
128,526



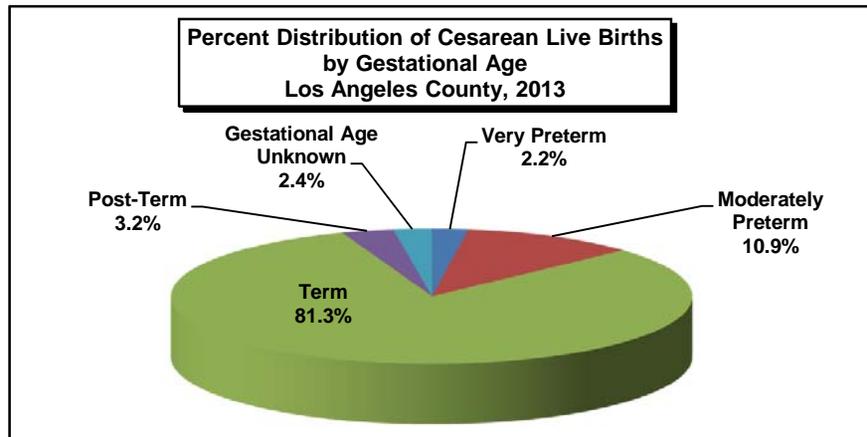
Note: Numbers fewer than 5 are shown as "<5". Rates are not calculated (N/C) if number is fewer than five.
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2013.

Cesarean Live Births, as Percent of Total Live Births by Gestational Age Los Angeles County, 2013



Los Angeles County, 2013				
Gestational Age	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Very Preterm: <32 Weeks	1,070	62.5	60.2	64.8
Moderately Preterm: 32-36 Weeks	5,195	52.1	51.1	53.1
Term: 37-41 Weeks	38,887	35.7	35.4	35.9
Post-Term: 42+ Weeks	1,537	33.4	32.0	34.7
Gestational Age Unknown	1,145	36.0	34.3	37.7
Total	47,834	37.2	37.0	37.5

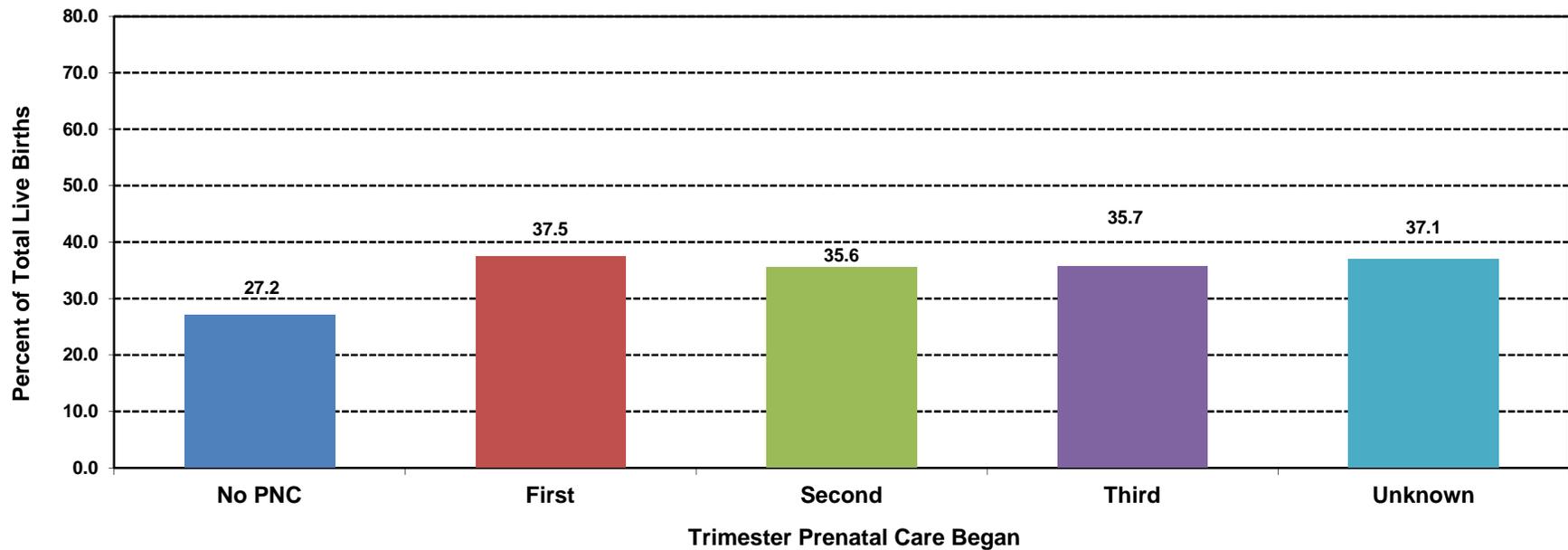
Total Live Births
1,711
9,977
109,049
4,608
3,181
128,526



Note: Unknown includes those weeks of gestation not stated, less than 17 weeks of gestation, and 53 weeks or more gestation. These categories reflect inaccuracies rather than actual gestation periods. Gestation is calculated from reported date of last menses.

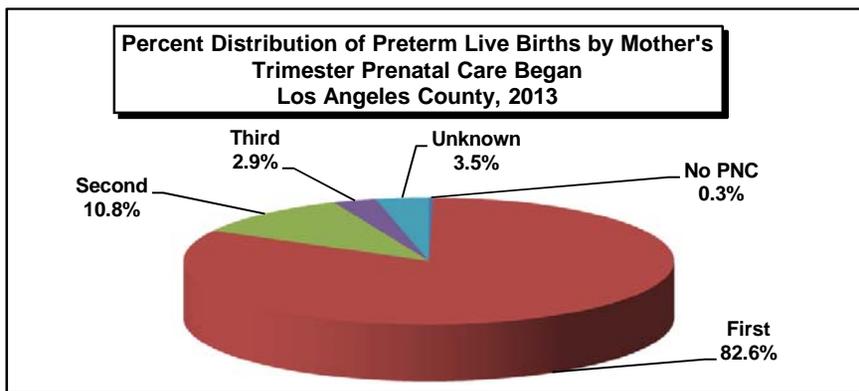
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2013.

**Cesarean Live Births, as Percent of Total Live Births by
Mother's Trimester Prenatal Care (PNC) Began
Los Angeles County, 2013**



Los Angeles County, 2013				
Mother's Trimester Prenatal Care Began	Cesarean Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
No PNC	134	27.2	23.3	31.1
First	39,515	37.5	37.2	37.8
Second	5,144	35.6	34.8	36.4
Third	1,366	35.7	34.2	37.3
Unknown	1,675	37.1	35.7	38.5
Total	47,834	37.2	37.0	37.5

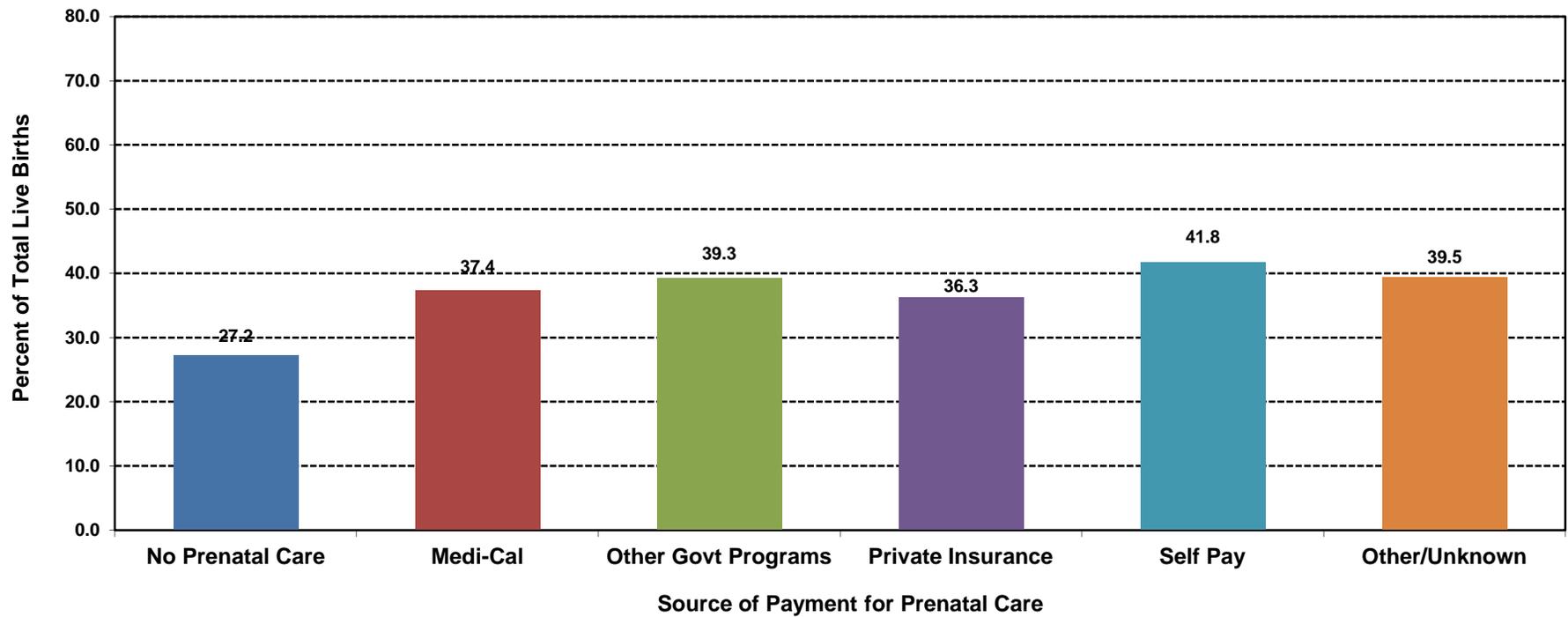
Total Live Births
493
105,259
14,438
3,822
4,514
128,526



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

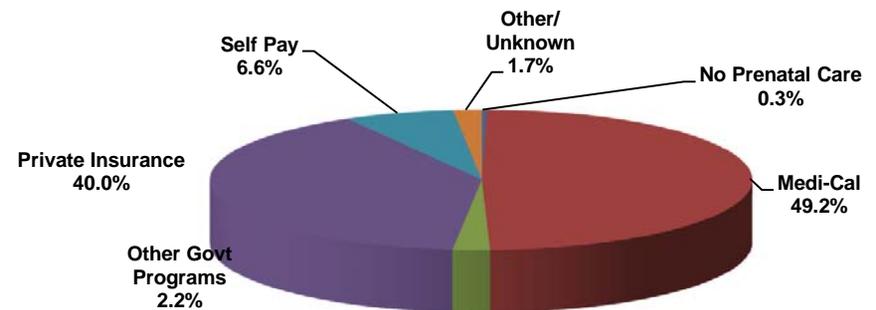
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2013.

**Cesarean Live Births, as Percent of Total Live Births by Source of Payment for Prenatal Care (PNC)
Los Angeles County, 2013**



Los Angeles County, 2013					Total Live Births
Prenatal Care Payment Source	Cesarean Births		95% Confidence Interval		
	Number	Percent	Lower	Upper	
No Prenatal Care	134	27.2	23.3	31.1	493
Medi-Cal	23,553	37.4	37.0	37.7	63,052
Other Govt Programs	1,052	39.3	37.5	41.2	2,675
Private Insurance	19,146	36.3	35.9	36.7	52,737
Self Pay	3,134	41.8	40.6	42.9	7,505
Other/Unknown	815	39.5	37.4	41.6	2,064
Total	47,834	37.2	37.0	37.5	128,526

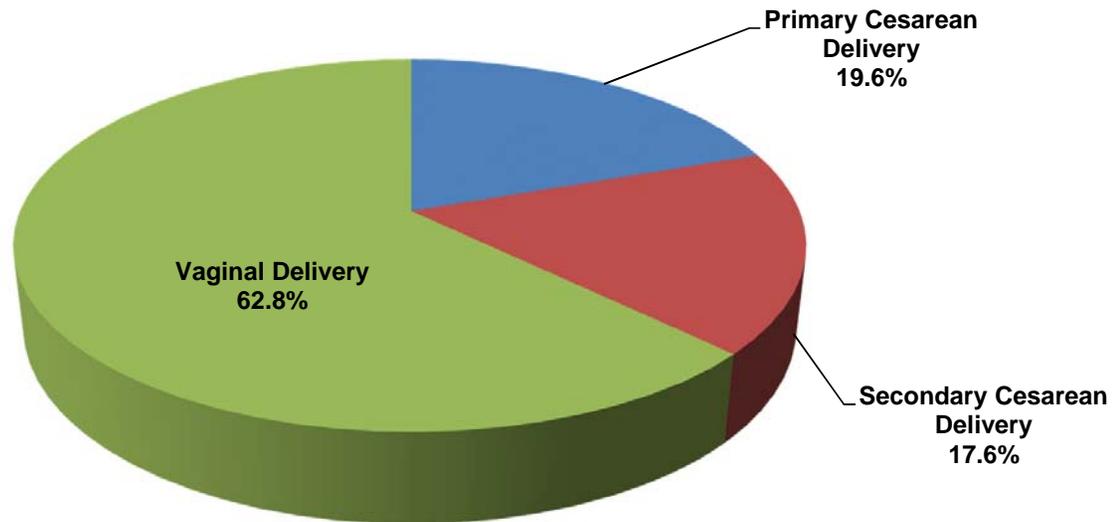
**Cesarean Live Births by source of Payment for Prenatal Care
Los Angeles County, 2013**



Note: "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, 2013.

**Total Live Births by Method of Delivery
Los Angeles County, 2013**



Los Angeles County, 2013				
Method of Delivery	Number of Live Births		95% Confidence Interval	
	Number	Percent	Lower	Upper
Primary Cesarean Delivery	25,247	19.6%	17.2%	22.1%
Secondary Cesarean Delivery	22,587	17.6%	15.3%	19.9%
Vaginal Delivery	80,692	62.8%	58.5%	67.1%
Total	128,526	100.0%	100.0%	100.0%

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2013.