

Low Birth Weight

FHOP INDICATOR TEMPLATE

INDICATOR: Percent of Low Birth Weight

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 2020 OBJECTIVE:

Reduce low birth weight 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 Birth Weight		95% Confidence Interval		Low Birth Weight		95% Confidence Interval	
	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper
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
2010	34,692	6.8	6.7	6.9	9,721	7.3	7.2	7.4
2011	34,017	6.8	6.7	6.8	9,257	7.1	7.0	7.2
2012	33,723	6.7	6.6	6.8	9,151	6.9	6.8	7.1
2013	33,798	6.8	6.8	6.9	9,058	7.0	6.9	7.2
2014	33,586	6.7	6.6	6.7	9,013	6.9	6.8	7.1
2015	33,666	6.8	6.8	6.9	9,100	7.3	7.2	7.5
2016	33,476	6.8	6.8	6.9	8,783	7.1	7.0	7.3

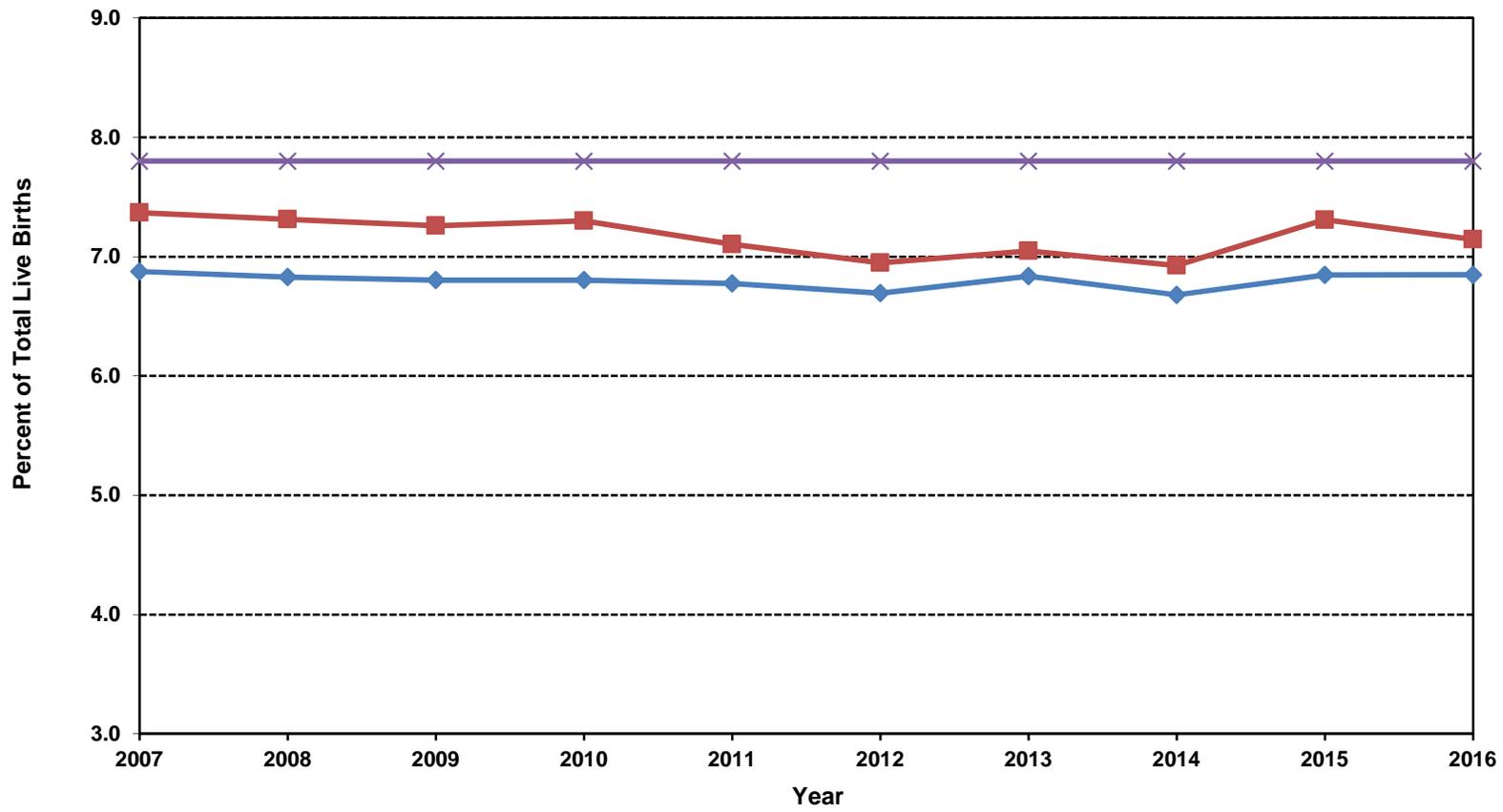
Denominator: Live Births		
Year	California	LA County
2007	566,137	151,813
2008	551,567	147,684
2009	526,774	139,679
2010	509,979	133,160
2011	502,023	130,313
2012	503,788	131,697
2013	494,392	128,526
2014	502,879	130,150
2015	491,748	124,507
2016	488,827	122,941

Source: California Department of Public Health, Birth Statistical Master Files, 2007-2016

Centers for Disease Control and Prevention, National Vital Statistics Reports, Volumes 64, 66, 67 (for California state data)

**Low Birth Weight Live Births as a Percent of Total Live Births
California vs. Los Angeles County, 2007-2016**

California Los Angeles County Healthy People 2020

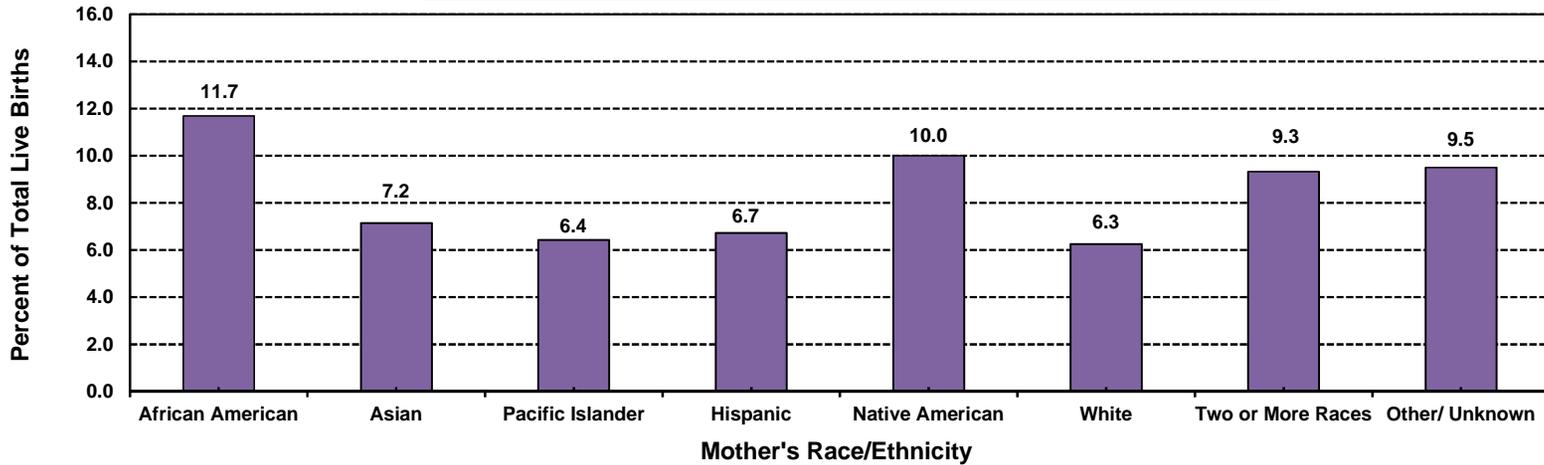


Year 2020 Objective: Reduce low birth weight births to an incidence of no more than 7.8 percent of live births.

Source: California Department of Public Health, Birth Statistical Master Files, 2007-2016

Centers for Disease Control and Prevention, National Vital Statistics Reports, Volumes 64, 66, 67 (for California state data)

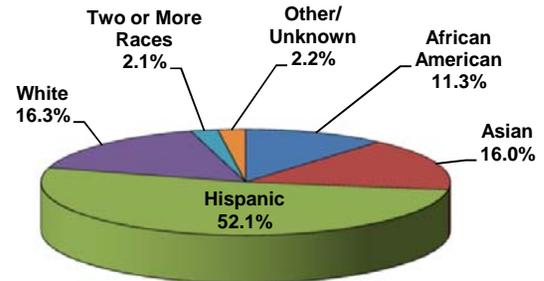
**Low Birth Weight Live Births as a Percent of Total Live Births
by Mother's Race/Ethnicity
Los Angeles County, 2016**



Los Angeles County, 2016				
Mother's Race/Ethnicity	Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper
African American	985	11.7	11.0	12.4
Asian	1,403	7.2	6.8	7.5
Pacific Islander	18	6.4	3.6	9.3
Hispanic	4,556	6.7	6.5	6.9
Native American	14	10.0	5.0	15.0
White	1,429	6.3	6.0	6.6
Two or More Races	187	9.3	8.1	10.6
Other/ Unknown	191	9.5	8.2	10.8
Total	8,783	7.1	7.0	7.3

Total Live Births
8,425
19,608
280
67,666
140
22,808
2,005
2,009
122,941

**Distribution of Low Birth Weight Live Births
by Mother's Race/Ethnicity
Los Angeles County, 2016**

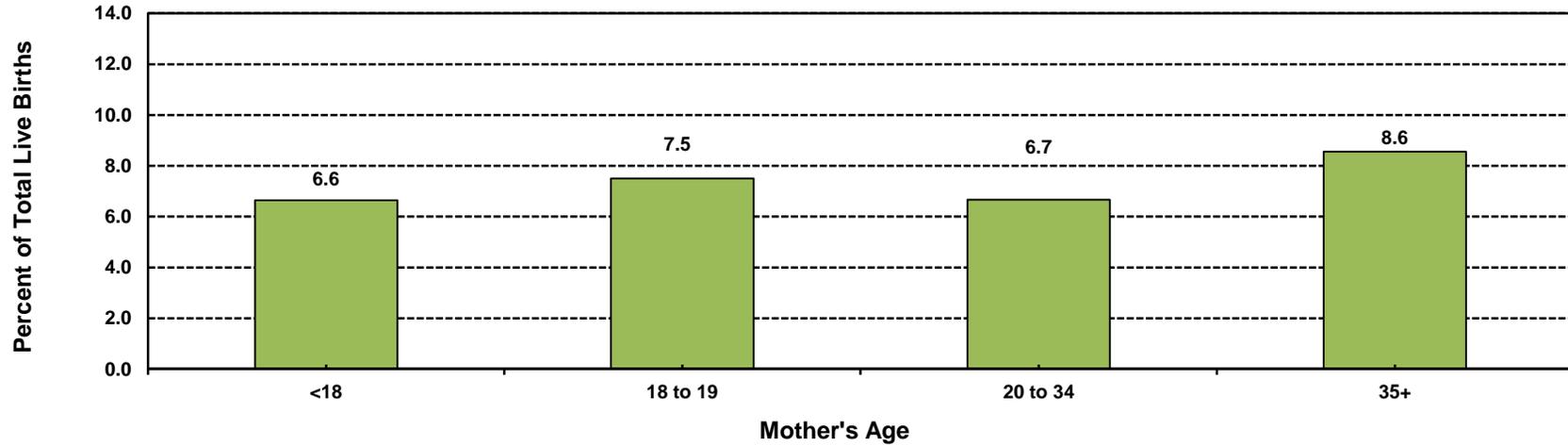


Year 2020 Objective: Reduce low birth weight births to an incidence of no more than 7.8 percent of live births.

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

Source: California Department of Public Health, Birth Statistical Master File, 2016

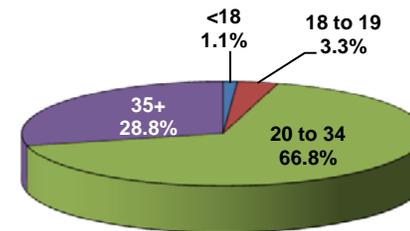
**Low Birth Weight Live Births as a Percent of Total Live Births
by Mother's Age
Los Angeles County, 2016**



Los Angeles County, 2016				
Mother's Age	Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper
<18	101	6.6	5.4	7.9
18 to 19	287	7.5	6.7	8.3
20 to 34	5,867	6.7	6.5	6.8
35+	2,528	8.6	8.2	8.9
Total	8,783	7.1	7.0	7.3

Total Live Births
1,521
3,826
88,056
29,523
122,941

**Distribution of Low Birth Weight Live Births
by Mother's Age
Los Angeles County, 2016**



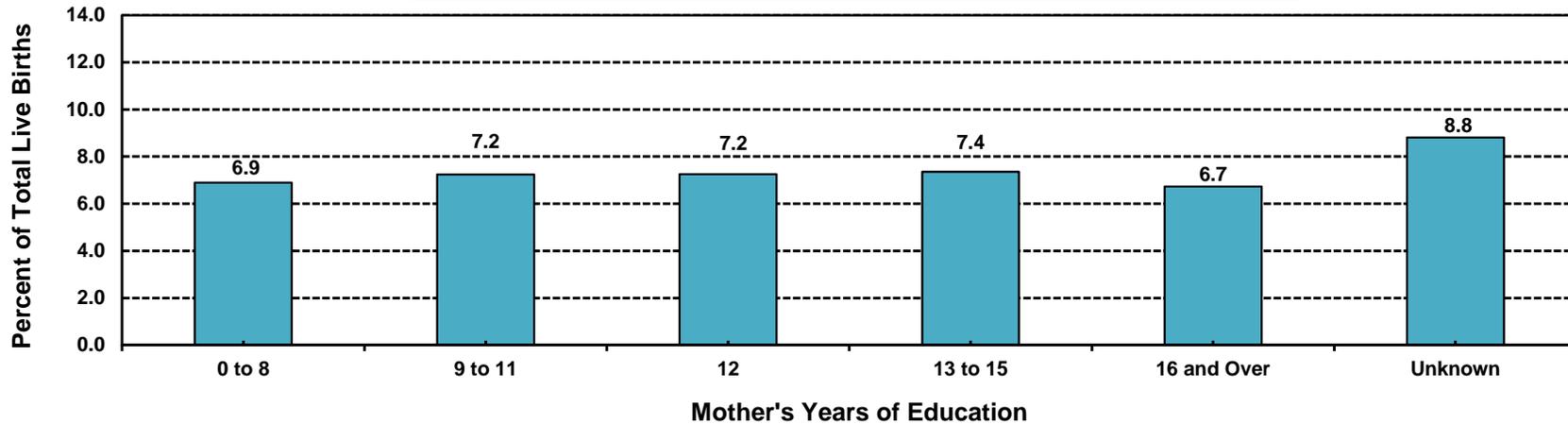
Year 2020 Objective: Reduce low birth weight births to an incidence of no more than 7.8 percent of live births.

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

"Unknown" category is excluded.

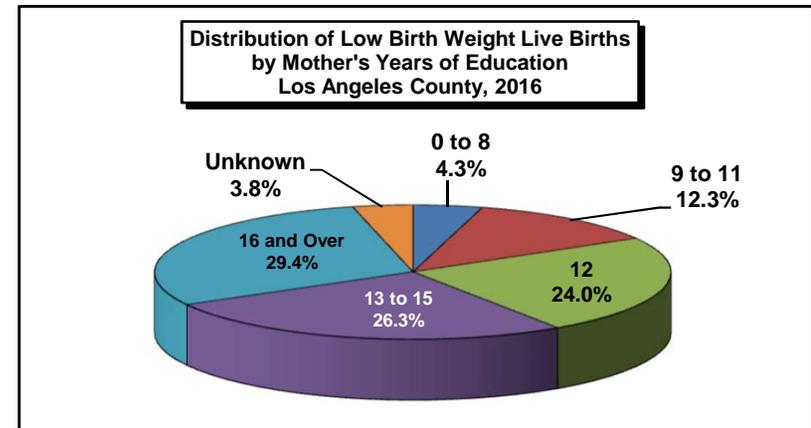
Source: California Department of Public Health, Birth Statistical Master File, 2016

**Low Birth Weight Live Births as a Percent of Total Live Births
by Mother's Years of Education
Los Angeles County, 2016**



Los Angeles County, 2016				
Mother's Years of Education	Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper
0 to 8	380	6.9	6.2	7.6
9 to 11	1,079	7.2	6.8	7.7
12	2,104	7.2	6.9	7.5
13 to 15	2,312	7.4	7.1	7.6
16 and Over	2,578	6.7	6.5	7.0
Unknown	330	8.8	7.9	9.7
Total	8,783	7.1	7.0	7.3

Total Live Births
5,509
14,905
29,035
31,421
38,326
3,745
122,941

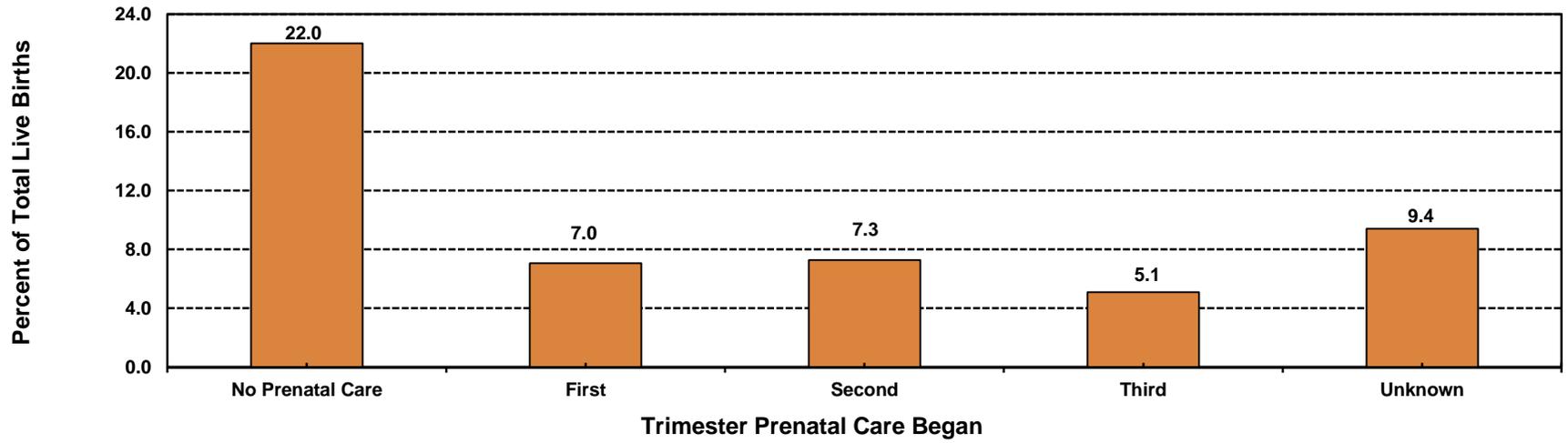


Year 2020 Objective: Reduce low birth weight births to an incidence of no more than 7.8 percent of live births.

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

Source: California Department of Public Health, Birth Statistical Master File, 2016

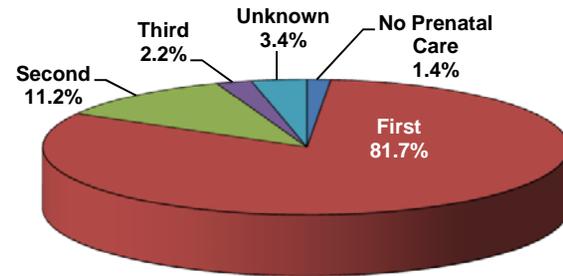
**Low Birth Weight Live Births as a Percent of Total Live Births
by Mother's Trimester Prenatal Care (PNC) Began
Los Angeles County, 2016**



Los Angeles County, 2016				
Mother's Trimester Prenatal Care Began	Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper
No Prenatal Care	127	22.0	18.6	25.4
First	7,179	7.0	6.9	7.2
Second	988	7.3	6.8	7.7
Third	191	5.1	4.4	5.8
Unknown	298	9.4	8.4	10.4
Total	8,783	7.1	7.0	7.3

Total Live Births
577
101,858
13,575
3,758
3,173
122,941

**Distribution of Low Birth Weight Live Births
by Mother's Trimester Prenatal Care Began
Los Angeles County, 2016**

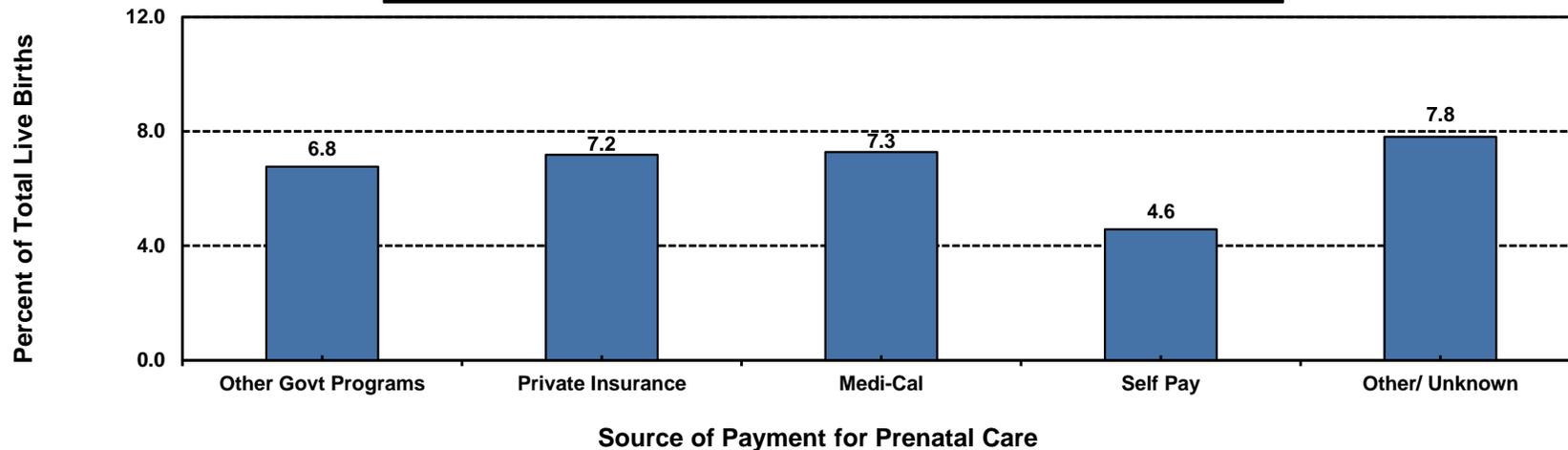


Year 2020 Objective: Reduce low birth weight births to an incidence of no more than 7.8 percent of live births.

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

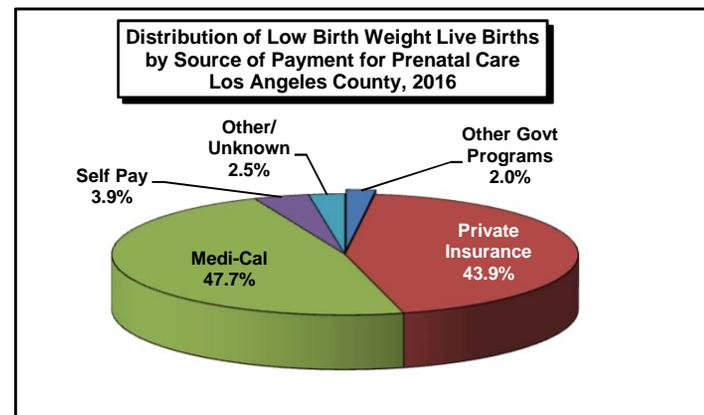
Source: California Department of Public Health, Birth Statistical Master File, 2016

**Low Birth Weight Live Births as a Percent of Total Live Births
by Source of Payment for Prenatal Care (PNC)
Los Angeles County, 2016**



Los Angeles County, 2016				
Source of Payment for Prenatal Care	Low Birthweight		95% Confidence Interval	
	Number	Percent	Lower	Upper
No Prenatal Care	127	22.0	18.6	25.4
Other Govt Programs	177	6.8	5.8	7.7
Private Insurance	3,801	7.2	7.0	7.4
Medi-Cal	4,127	7.3	7.1	7.5
Self Pay	334	4.6	4.1	5.0
Other/ Unknown	217	7.8	6.8	8.8
Total	8,783	7.1	7.0	7.3

Total Live Births
577
2,616
52,971
56,687
7,311
2,779
122,941

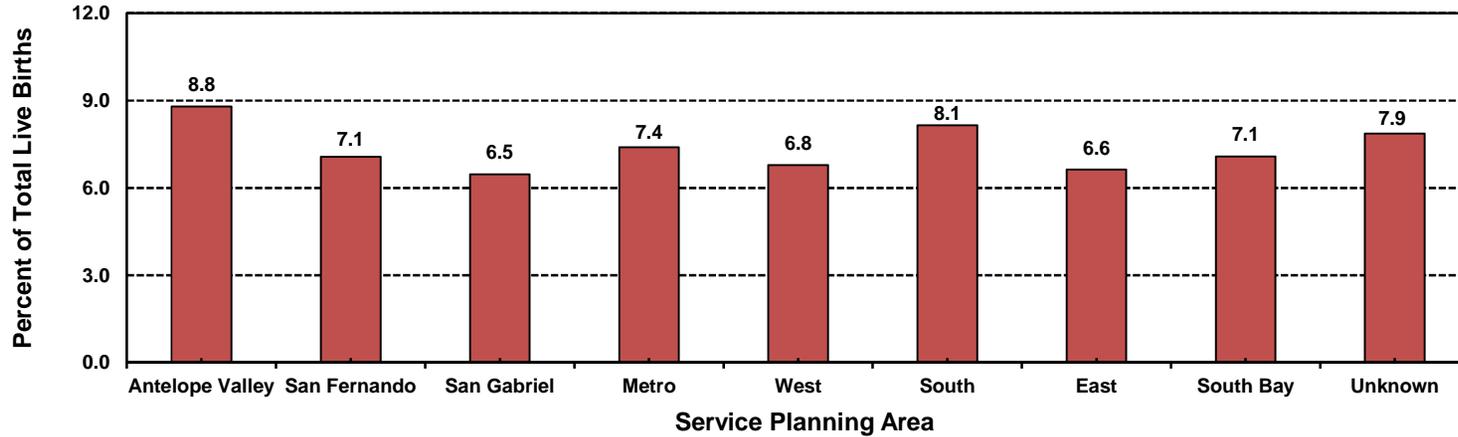


Year 2020 Objective: Reduce low birth weight births to an incidence of no more than 7.8 percent of live births.

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

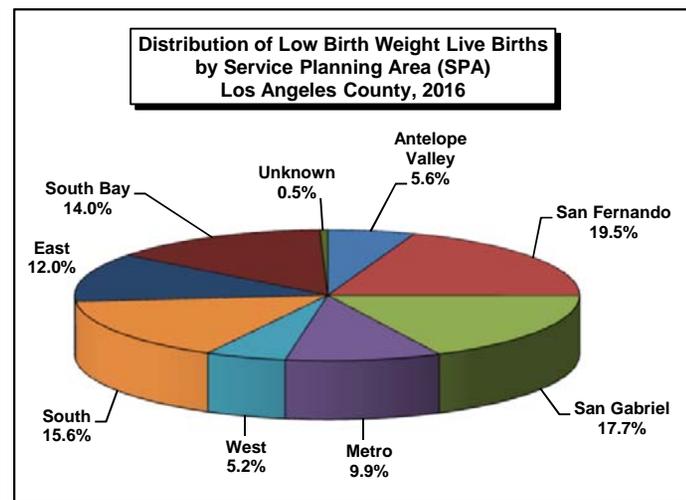
Source: California Department of Public Health, Birth Statistical Master File, 2016

**Low Birth Weight Live Births as a Percent of Total Live Births
by Service Planning Area (SPA)
Los Angeles County, 2016**



Los Angeles County, 2016				
Service Planning Area (SPA)	SPA		95% Confidence Interval	
	Number	Percent	Lower	Upper
Antelope Valley	489	8.8	8.1	9.5
San Fernando	1,710	7.1	6.8	7.4
San Gabriel	1,556	6.5	6.2	6.8
Metro	872	7.4	6.9	7.9
West	453	6.8	6.2	7.4
South	1,368	8.1	7.7	8.6
East	1,057	6.6	6.2	7.0
South Bay	1,234	7.1	6.7	7.5
Unknown	44	7.9	5.6	10.1
Total	8,783	7.1	7.0	7.3

Total Live Births
5,555
24,165
24,048
11,789
6,678
16,786
15,941
17,420
559
122,941

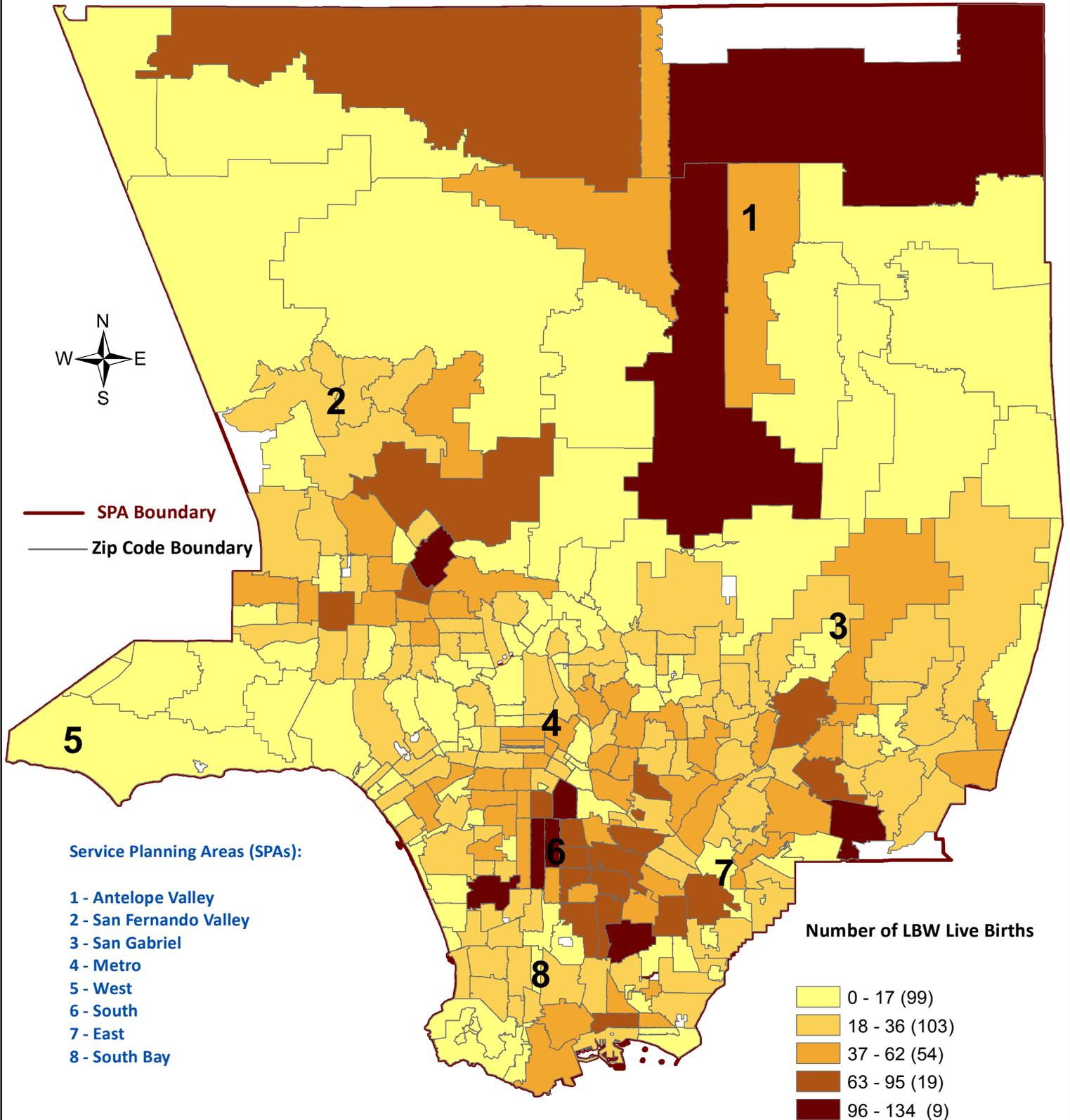


Year 2020 Objective: Reduce low birth weight births to an incidence of no more than 7.8 percent of live births.

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

Source: California Department of Public Health, Birth Statistical Master File, 2016

Los Angeles County - Department of Public Health
Number of Low Birthweight (LBW) Live Births by Zip Code* and Service Planning Area (SPA)
Los Angeles County, 2016



*Los Angeles County zip code boundaries as of 2010

Total number of live births in Los Angeles County, 2016 = 122,941

Total number of low birthweight live births in Los Angeles County, 2016 = 8,783

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

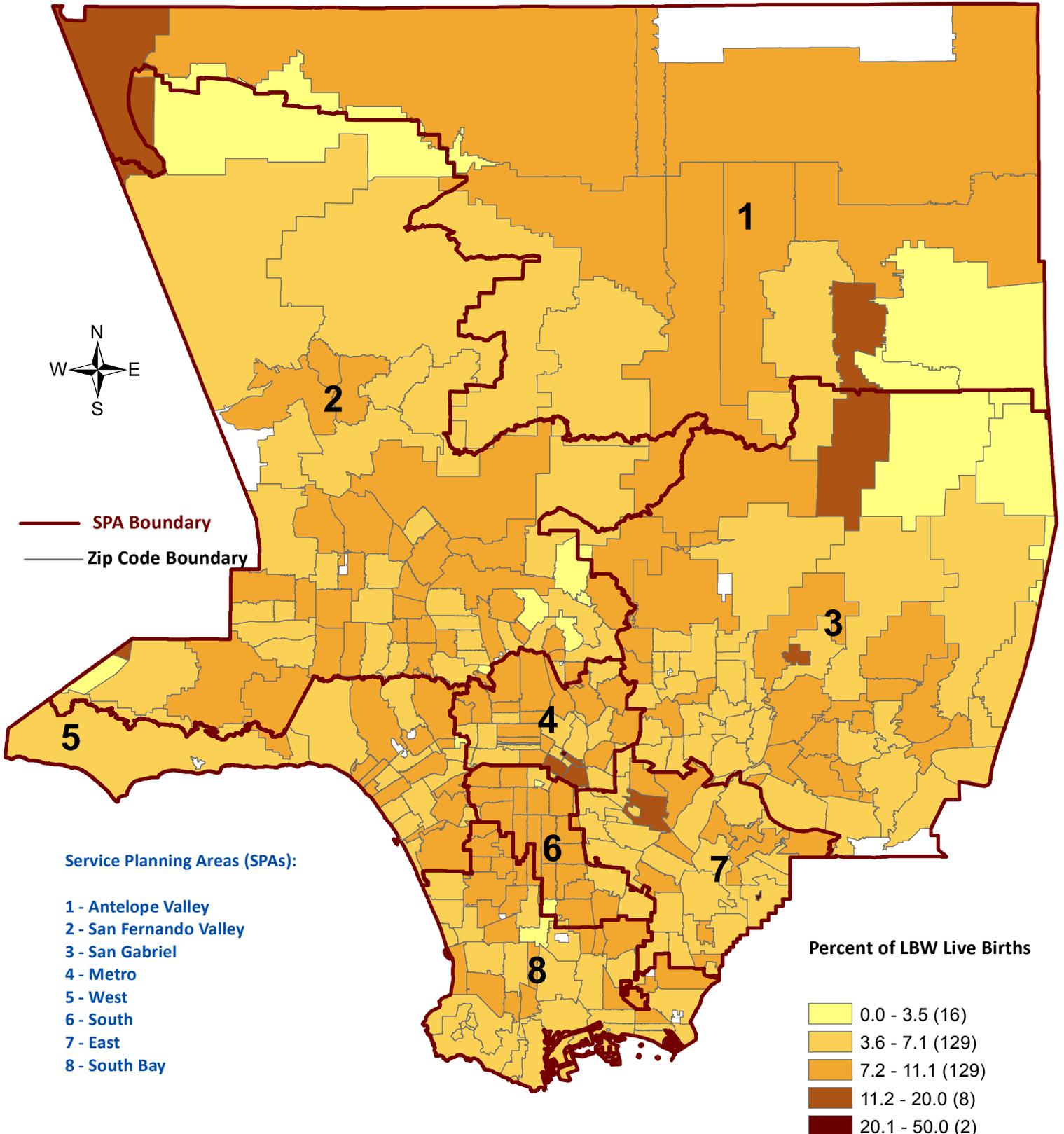
Zip codes that have fewer than 5 low birthweight live births are not included. Zip code 90704 (Catalina Island) is not included.

Total number of low birth weight live births in 90704, 2016 = < 5.

Source: California Department of Public Health, Birth Statistical Master File, 2016

n = total number of zip codes within range

Los Angeles County - Department of Public Health
Percent of Low Birthweight (LBW) Live Births by Zip Code* and Service Planning Area (SPA)
Los Angeles County, 2016



*Los Angeles County zip code boundaries as of 2010

Total number of live births in Los Angeles County, 2016 = 122,941

Total number of low birthweight live births in Los Angeles County, 2016 = 8,783

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

Zip codes that have fewer than 5 low birthweight live births are not included. Zip code 90704 (Catalina Island) is not included.

Total percent of low birth weight live births in 90704, 2016 = < 5

Source: California Department of Public Health, Birth Statistical Master File, 2016

Very Low Birth Weight

Very Low Birth Weight

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 2020 OBJECTIVE:

Reduce very low birth weight 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)

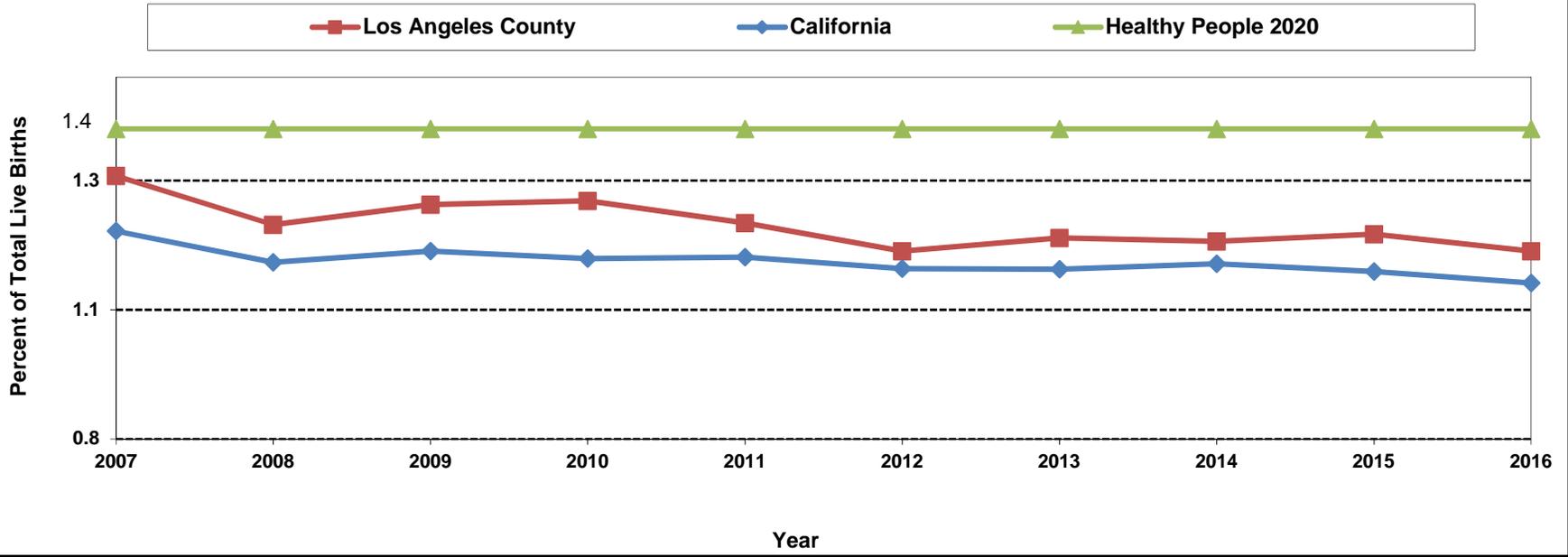
See also risk factors for low birth weight

Year	California				Los Angeles County			
	Very Low Birth Weight		95% Confidence Interval		Very Low Birth Weight		95% Confidence Interval	
	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper
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
2010	5,859	1.1	1.1	1.2	1,679	1.3	1.2	1.3
2011	5,782	1.2	1.1	1.2	1,587	1.2	1.2	1.3
2012	5,689	1.1	1.1	1.2	1,532	1.2	1.1	1.2
2013	5,579	1.1	1.1	1.2	1,528	1.2	1.1	1.2
2014	5,727	1.1	1.1	1.2	1,539	1.2	1.1	1.2
2015	5,527	1.1	1.1	1.2	1,489	1.2	1.1	1.3
2016	5,384	1.1	1.1	1.1	1,430	1.2	1.1	1.2

Denominator: Live Births		
Year	California	LA County
2007	566,137	151,813
2008	551,567	147,684
2009	526,774	139,679
2010	509,979	133,160
2011	502,023	130,313
2012	503,788	131,697
2013	494,392	128,526
2014	502,973	130,150
2015	491,748	124,507
2016	488,827	122,941

Source: California Department of Public Health, Birth Statistical Master Files, 2007-2016.
Centers for Disease Control and Prevention, National Vital Statistics Reports, Vol. 66, No. 1, January 5, 2017

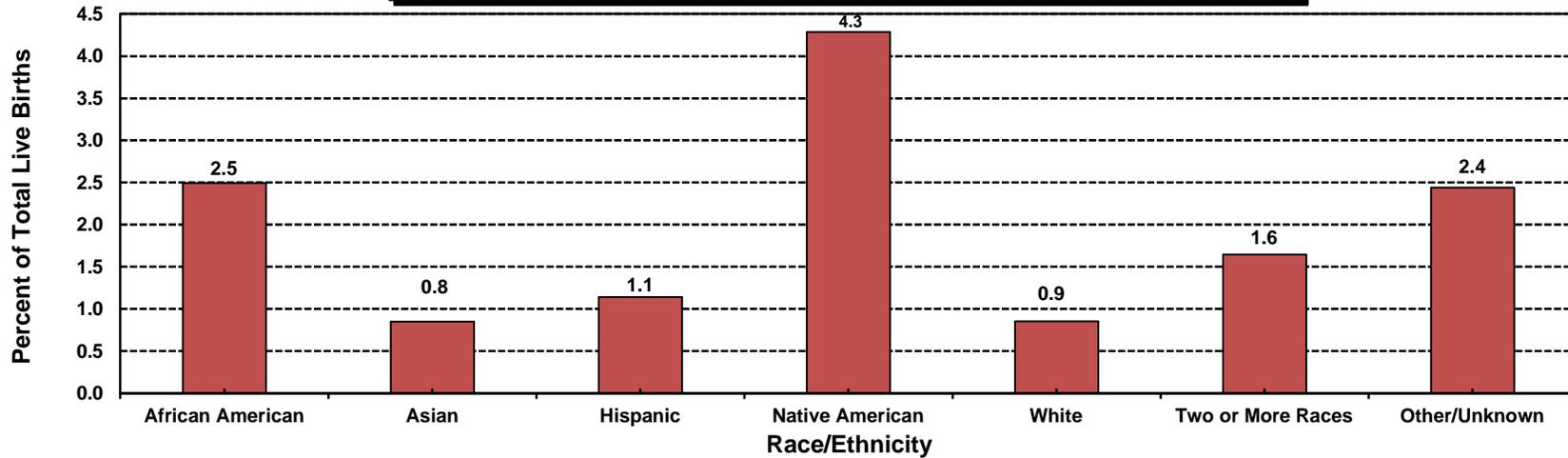
**Very Low Birth Weight Live Births as a Percent of Total Live Births
California vs. Los Angeles County, 2007-2016**



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

Source: Centers for Disease Control and Prevention, National Vital Statistics Reports, Vol. 66, No. 1, January 5, 2017 (for California state data)
California Department of Public Health, Birth Statistical Master Files, 2007-2016.

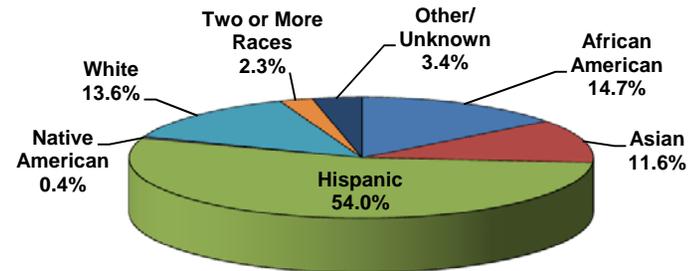
**Very Low Birth Weight Live Births as Percent of Total Live Births, by Mother's Race/Ethnicity
Los Angeles County, 2016**



Los Angeles County, 2016				
Mother's Race/Ethnicity	Very Low Birth Weight		95% Confidence Interval	
	Number	Percent	Lower	Upper
African American	210	2.5	2.2	2.8
Asian	166	0.8	0.7	1.0
Hispanic	772	1.1	1.1	1.2
Native American	6	4.3	0.9	7.6
White	194	0.9	0.7	1.0
Two or More Races	33	1.6	1.1	2.2
Other/Unknown	49	2.4	1.8	3.1
Pacific Islander	<5	N/C	N/C	N/C
Total	1,430	1.2	1.1	1.2

Total Live Births
8,425
19,608
67,666
140
22,808
2,005
2,009
280
122,941

**Distribution of Very Low Birth Weight Live Births by Mother's Race/Ethnicity
Los Angeles County, 2016**

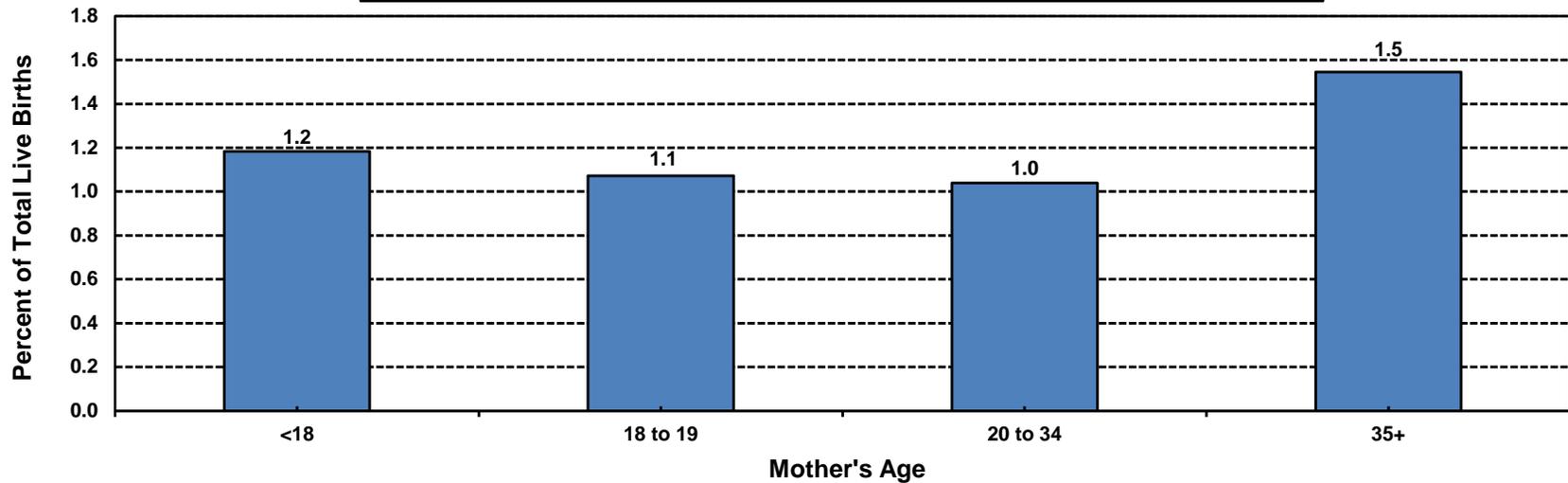


Year 2020 Objective: Reduce very low birth weight births to an incidence of no more than 1.4 percent of live births.

Note: Very low birth weight 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.

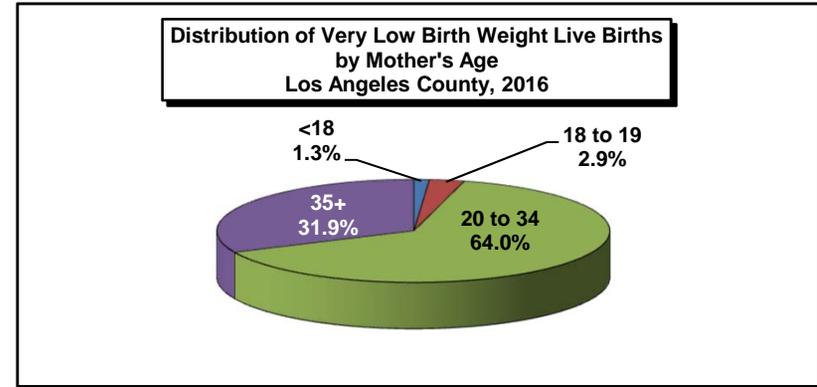
Source: California Department of Public Health, Birth Statistical Master File, 2016.

**Very Low Birth Weight Live Births as a Percent of Total Live Births
by Mother's Age
Los Angeles County, 2016**



Los Angeles County, 2016				
Mother's Age	Very Low Birth Weight		95% Confidence Interval	
	Number	Percent	Lower	Upper
<18	18	1.2	0.6	1.7
18 to 19	41	1.1	0.7	1.4
20 to 34	915	1.0	1.0	1.1
35+	456	1.5	1.4	1.7
Other/Unknown	<5	N/C	N/C	N/C
Total	1,430	1.2	1.1	1.2

Total Live Births
1,521
3,826
88,056
29,523
15
122,941



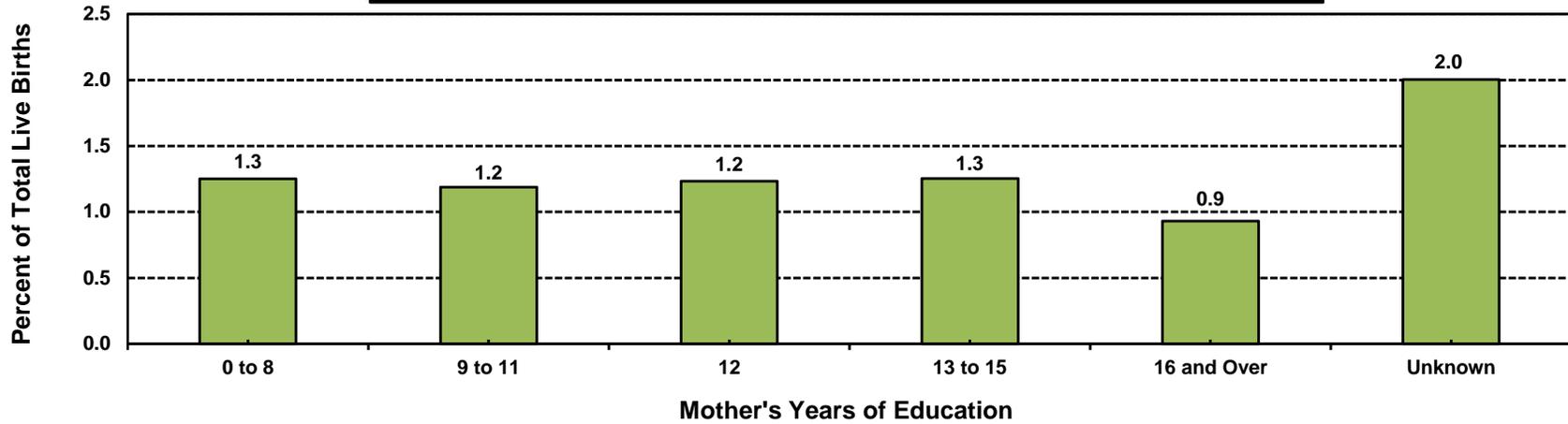
Year 2020 Objective: Reduce very low birth weight births to an incidence of no more than 1.4 percent of live births.

Note: Very low birth weight 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.

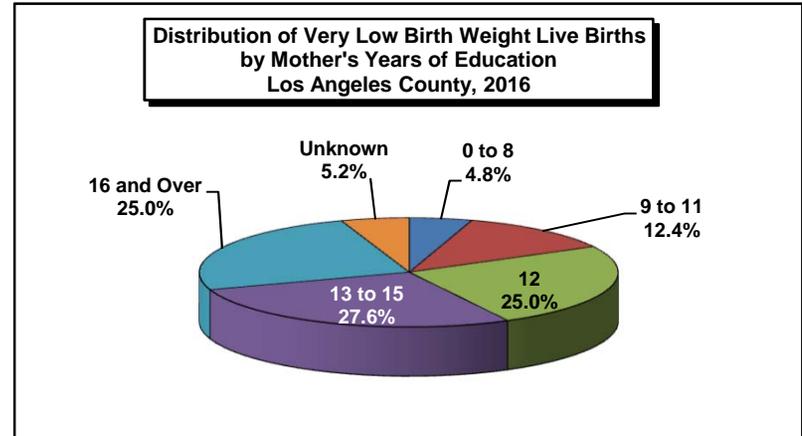
Source: California Department of Public Health, Birth Statistical Master File, 2016.

**Very Low Birth Weight Live Births as a Percent of Total Live Births
by Mother's Years of Education
Los Angeles County, 2016**



Los Angeles County, 2016				
Mother's Years of Education	Very Low Birth Weight		95% Confidence Interval	
	Number	Percent	Lower	Upper
0 to 8	69	1.3	1.0	1.5
9 to 11	177	1.2	1.0	1.4
12	358	1.2	1.1	1.4
13 to 15	394	1.3	1.1	1.4
16 and Over	357	0.9	0.8	1.0
Unknown	75	2.0	1.6	2.5
Total	1,430	1.2	1.1	1.2

Total Live Births
5,509
14,905
29,035
31,421
38,326
3,745
122,941

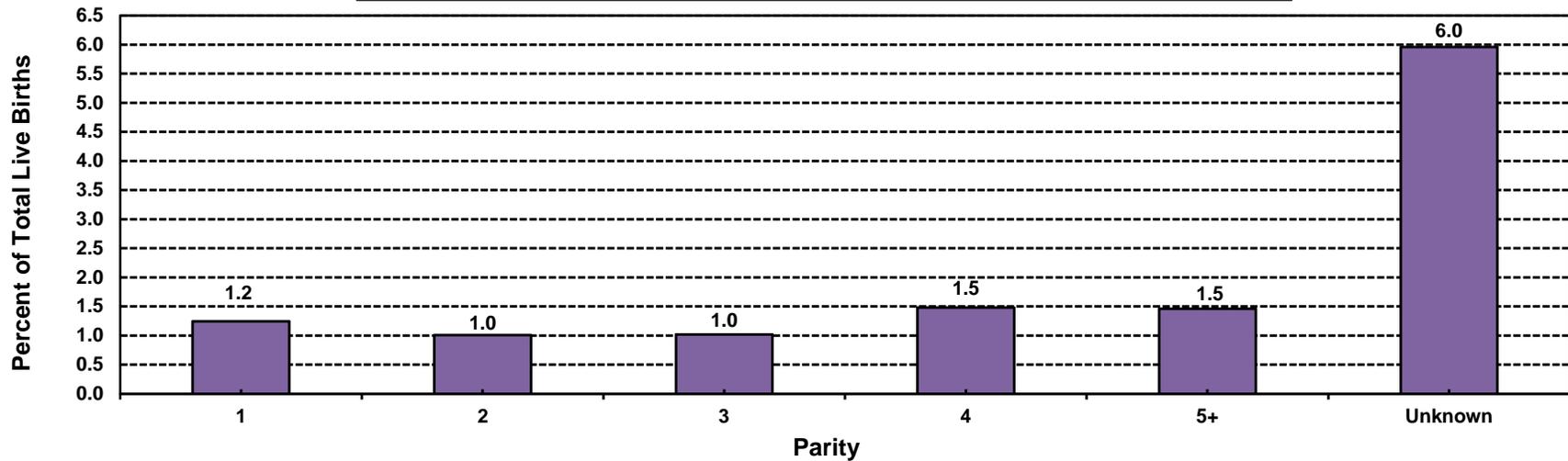


Year 2020 Objective: Reduce very low birth weight births to an incidence of no more than 1.4 percent of live births.

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

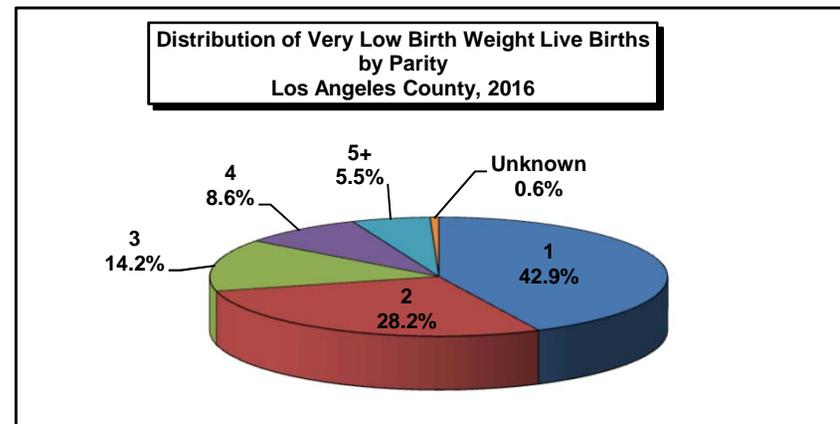
Source: California Department of Public Health, Birth Statistical Master File, 2016.

**Very Low Birth Weight Live Births as a Percent of Total Live Births
by Parity
Los Angeles County, 2016**



Los Angeles County, 2016				
Parity	Very Low Birth Weight		95% Confidence Interval	
	Number	Percent	Lower	Upper
1	613	1.2	1.1	1.3
2	403	1.0	0.9	1.1
3	203	1.0	0.9	1.2
4	123	1.5	1.2	1.7
5+	79	1.5	1.1	1.8
Unknown	9	6.0	2.2	9.7
Total	1,430	1.2	1.1	1.2

Total Live Births
49,205
39,931
19,945
8,309
5,400
151
122,941



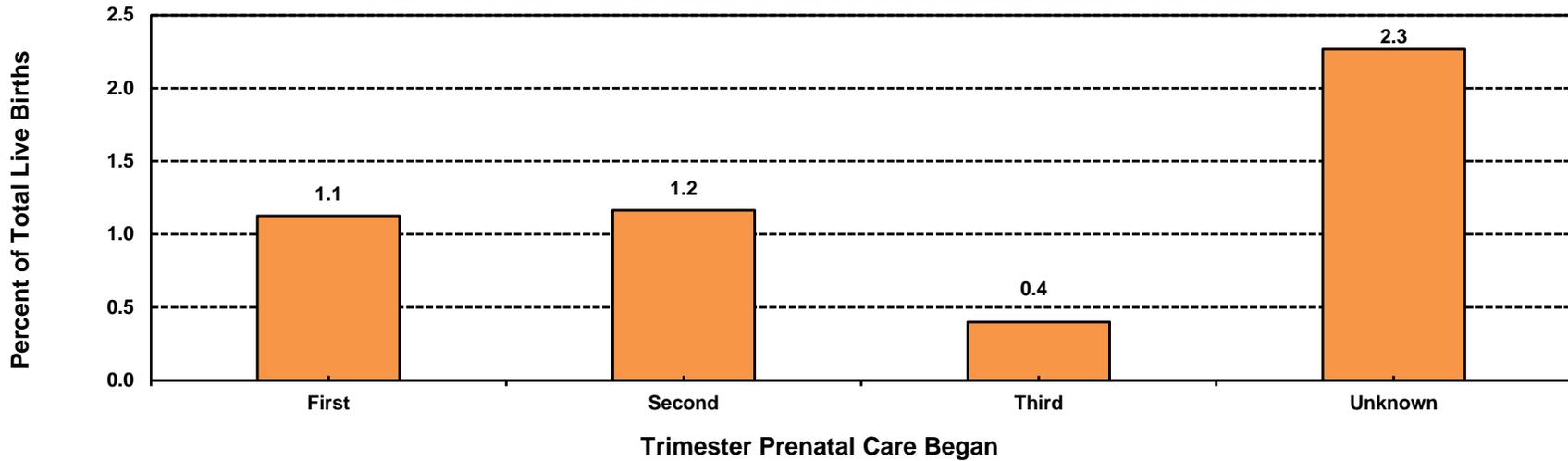
Year 2020 Objective: Reduce very low birth weight births to an incidence of no more than 1.4 percent of live births.

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

"Parity" is defined as the number of pregnancies resulting in live births to a woman.

Source: California Department of Public Health, Birth Statistical Master File, 2016.

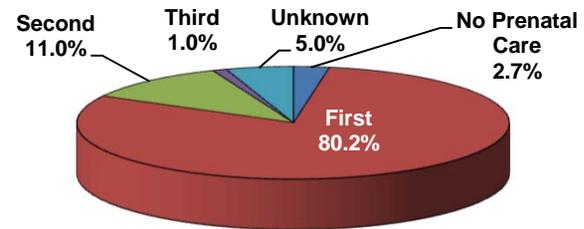
**Very Low Birth Weight Live Births as a Percent of Total Live Births
by Mother's Trimester Prenatal Care (PNC) Began
Los Angeles County, 2016**



Los Angeles County, 2016				
Mother's Trimester Prenatal Care Began	Very Low Birth Weight		95% Confidence Interval	
	Number	Percent	Lower	Upper
No Prenatal Care	38	6.6	4.6	8.6
First	1,147	1.1	1.1	1.2
Second	158	1.2	1.0	1.3
Third	15	0.4	0.2	0.6
Unknown	72	2.3	1.8	2.8
Total	1,430	1.2	1.1	1.2

Total Live Births
577
101,858
13,575
3,758
3,173
122,941

**Distribution of Very Low Birth Weight Live Births
by Mother's Trimester Prenatal Care Began
Los Angeles County, 2016**

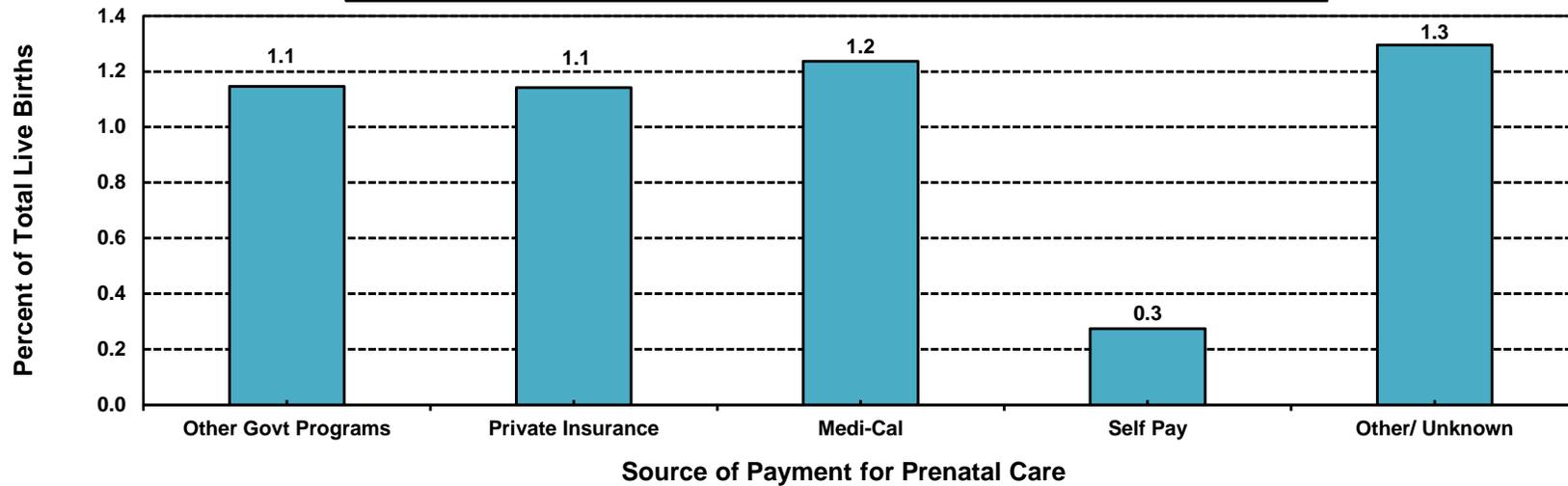


Year 2020 Objective: Reduce very low birth weight births to an incidence of no more than 1.4 percent of live births.

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

Source: California Department of Public Health, Birth Statistical Master File, 2016.

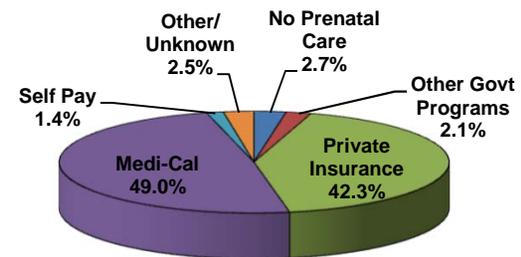
**Very Low Birth Weight Live Births as a Percent of Total Live Births
by Source of Payment for Prenatal Care (PNC)
Los Angeles County, 2016**



Los Angeles County, 2016				
Source of Payment for Prenatal Care	Very Low Birth Weight		95% Confidence Interval	
	Number	Percent	Lower	Upper
No Prenatal Care	38	6.6	4.6	8.6
Other Govt Programs	30	1.1	0.7	1.6
Private Insurance	605	1.1	1.1	1.2
Medi-Cal	701	1.2	1.1	1.3
Self Pay	20	0.3	0.2	0.4
Other/ Unknown	36	1.3	0.9	1.7
Total	1,430	1.2	1.1	1.2

Total Live Births
577
2,616
52,971
56,687
7,311
2,779
122,941

**Distribution of Very Low Birth Weight Live Births
by Source of Payment for Prenatal Care
Los Angeles County, 2016**

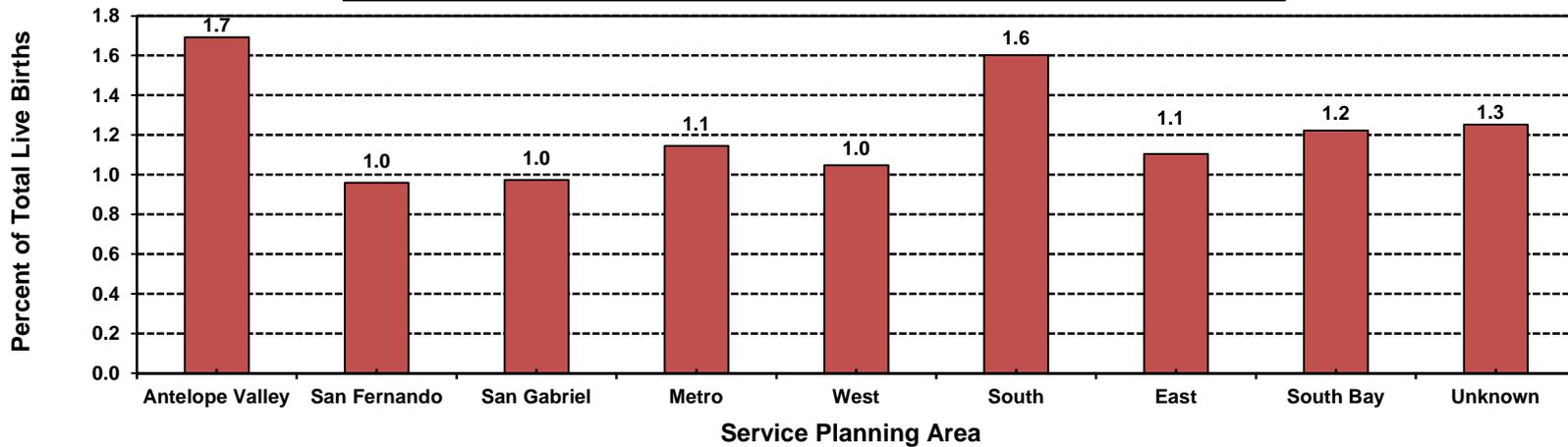


Year 2020 Objective: Reduce very low birth weight births to an incidence of no more than 1.4 percent of live births.

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

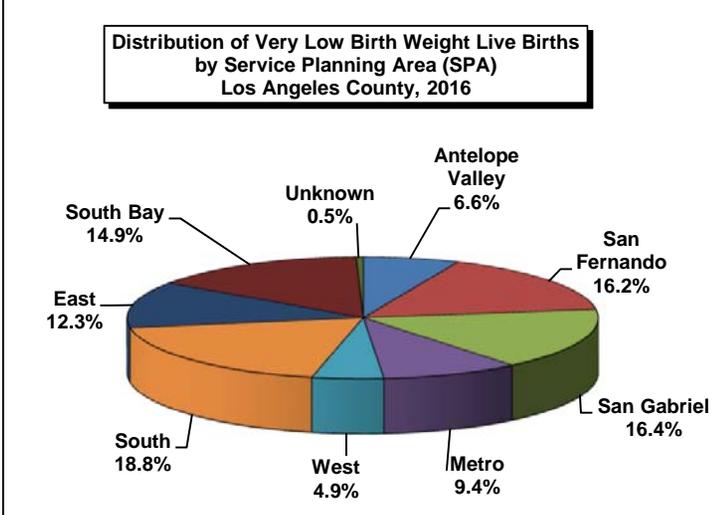
Source: California Department of Public Health, Birth Statistical Master File, 2016.

**Very Low Birth Weight Live Births as a Percent of Total Live Birth,
by Service Planning Area (SPA)
Los Angeles County, 2016**



Los Angeles County, 2016				
Service Planning Area (SPA)	SPA		95% Confidence Interval	
	Number	Percent	Lower	Upper
Antelope Valley	94	1.7	1.4	2.0
San Fernando	232	1.0	0.8	1.1
San Gabriel	234	1.0	0.8	1.1
Metro	135	1.1	1.0	1.3
West	70	1.0	0.8	1.3
South	269	1.6	1.4	1.8
East	176	1.1	0.9	1.3
South Bay	213	1.2	1.1	1.4
Unknown	7	1.3	0.3	2.2
Total	1,430	1.2	1.1	1.2

Total Live Births
5,555
24,165
24,048
11,789
6,678
16,786
15,941
17,420
559
122,941

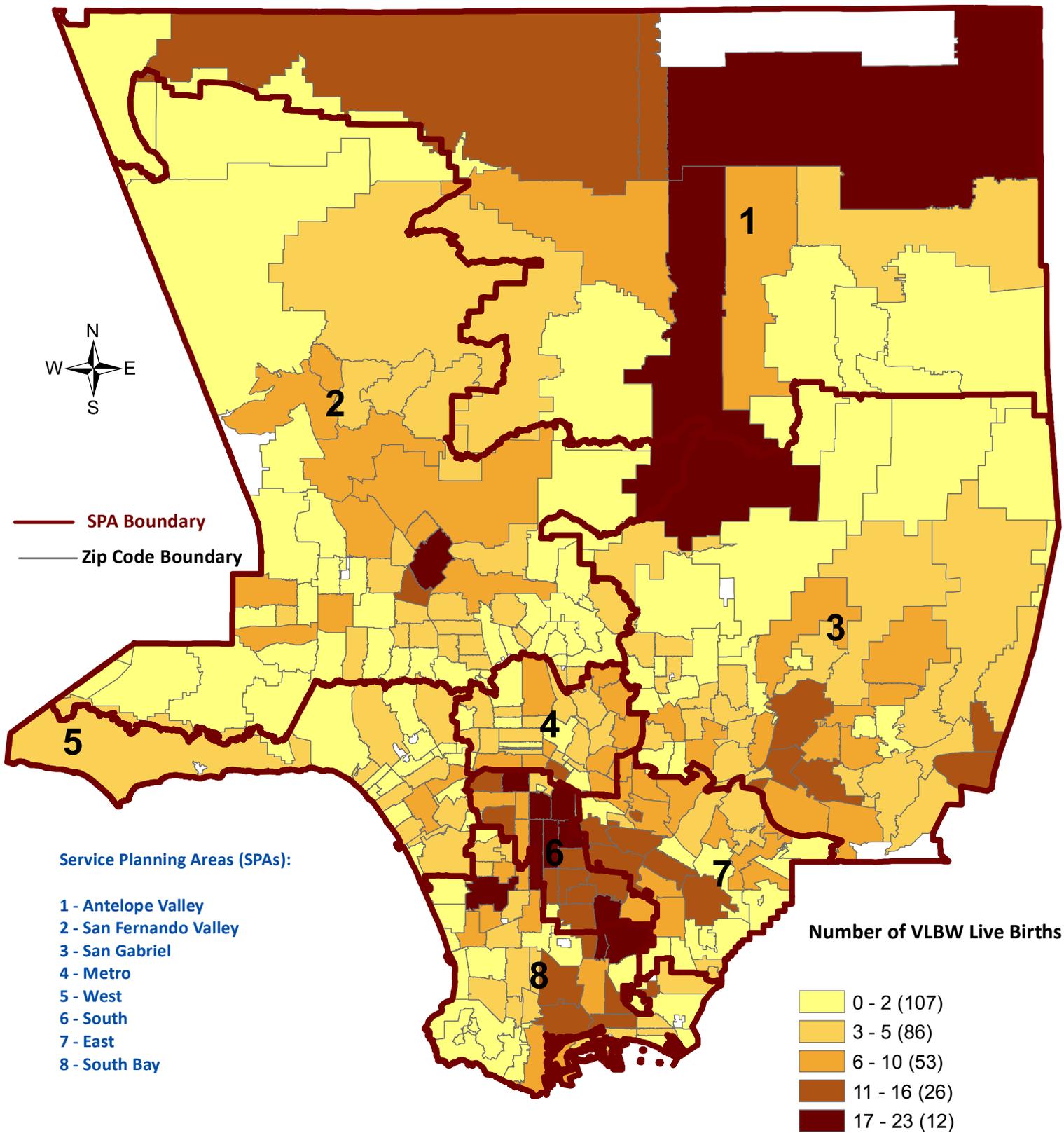


Year 2020 Objective: Reduce very low birth weight births to an incidence of no more than 1.4 percent of live births.

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

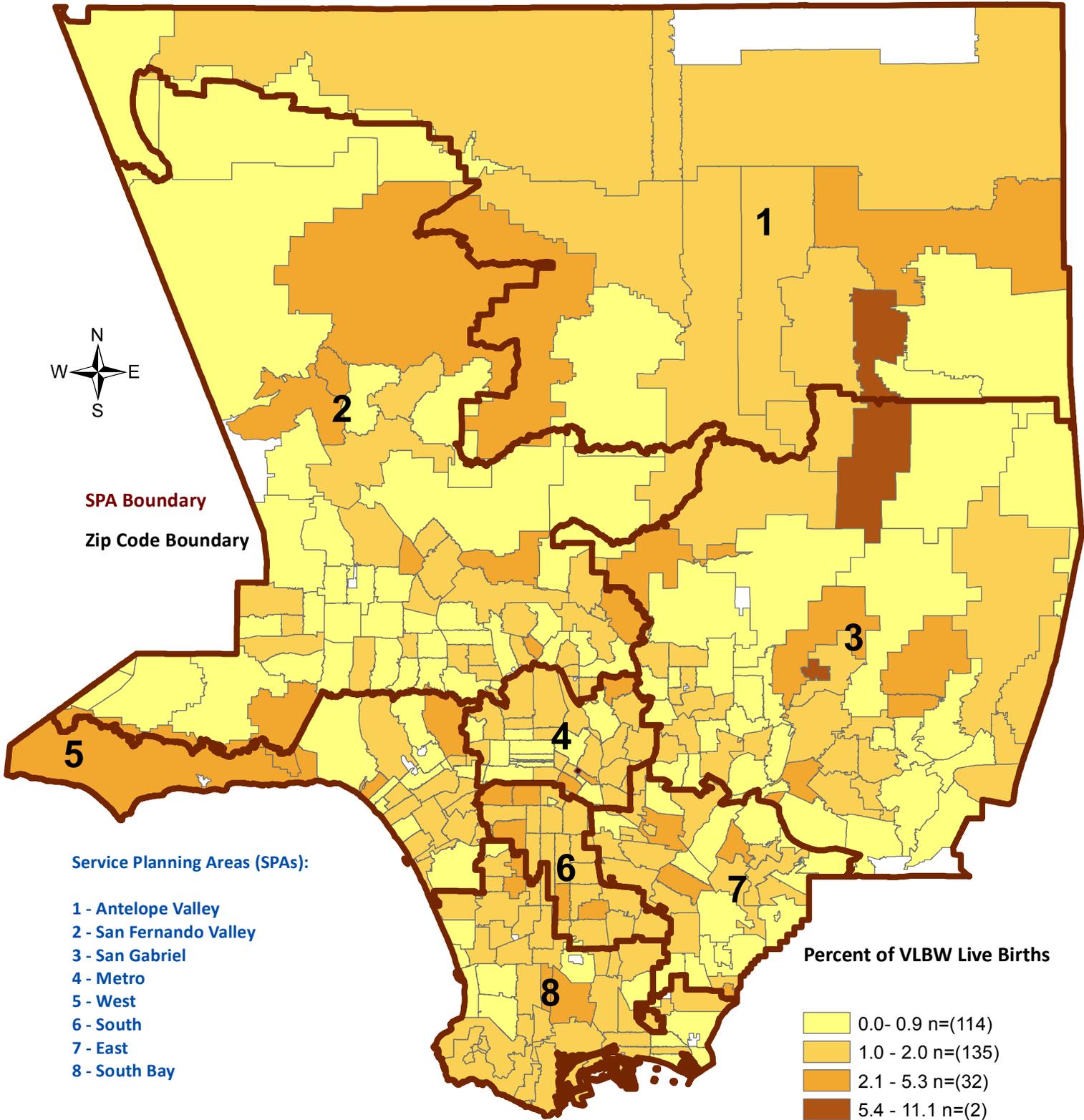
Source: California Department of Public Health, Birth Statistical Master File, 2016.

Los Angeles County - Department of Public Health
Number of Very Low Birthweight (VLBW) Live Births by Zip Code* and Service Planning Area (SPA)
Los Angeles County, 2016



*Los Angeles County zip code boundaries as of 2010
 Total number of live births in Los Angeles County, 2016 = 122,941
 Total number of very low birthweight live births in Los Angeles County, 2016 = 1,430
 Note: Very low birthweight is defined as fetal birth weight less than 1,500 grams at birth.
 Zip codes that have fewer than 5 low birthweight live births are not included. Zip code 90704 (Catalina Island) is not included.
 Total number of very low weight live births in 90704, 2016 = < 5.
 Source: California Department of Public Health, Birth Statistical Master File, 2016

Los Angeles County - Department of Public Health
Percent of Very Low Birthweight (VLBW) Live Births by Zip Code* and Service Planning Area (SPA)
Los Angeles County, 2016



SPA Boundary
Zip Code Boundary

Service Planning Areas (SPAs):

- 1 - Antelope Valley
- 2 - San Fernando Valley
- 3 - San Gabriel
- 4 - Metro
- 5 - West
- 6 - South
- 7 - East
- 8 - South Bay

Percent of VLBW Live Births

0.0 - 0.9	n=(114)
1.0 - 2.0	n=(135)
2.1 - 5.3	n=(32)
5.4 - 11.1	n=(2)
11.2 - 33.3	n=(1)

n = total number of zip codes within range

*Los Angeles County zip code boundaries as of 2010
 Total number of live births in Los Angeles County, 2016 = 122,941
 Total number of very low birthweight live births in Los Angeles County, 2016 = 1,430
 Percent of very low birthweight live births per 100 live births in Los Angeles County, 2016 = 1.2
 Year 2020 Objective: Reduce very low birthweight births to an incidence of no more than 1.4 percent of live births.
 Note: Percent very low birthweight is defined as fetal birth weight less than 1,500 grams at birth per 100 live births.
 Zip code 90704 (Catalina Island) is not included. Percent of very low birthweight live births in 90704, 2016 = < 5.
 Source: California Department of Public Health, Birth Statistical Master File, 2016