

**TITLE V INDICATOR TEMPLATES**

**INDICATOR:** 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 2000 OBJECTIVE:**

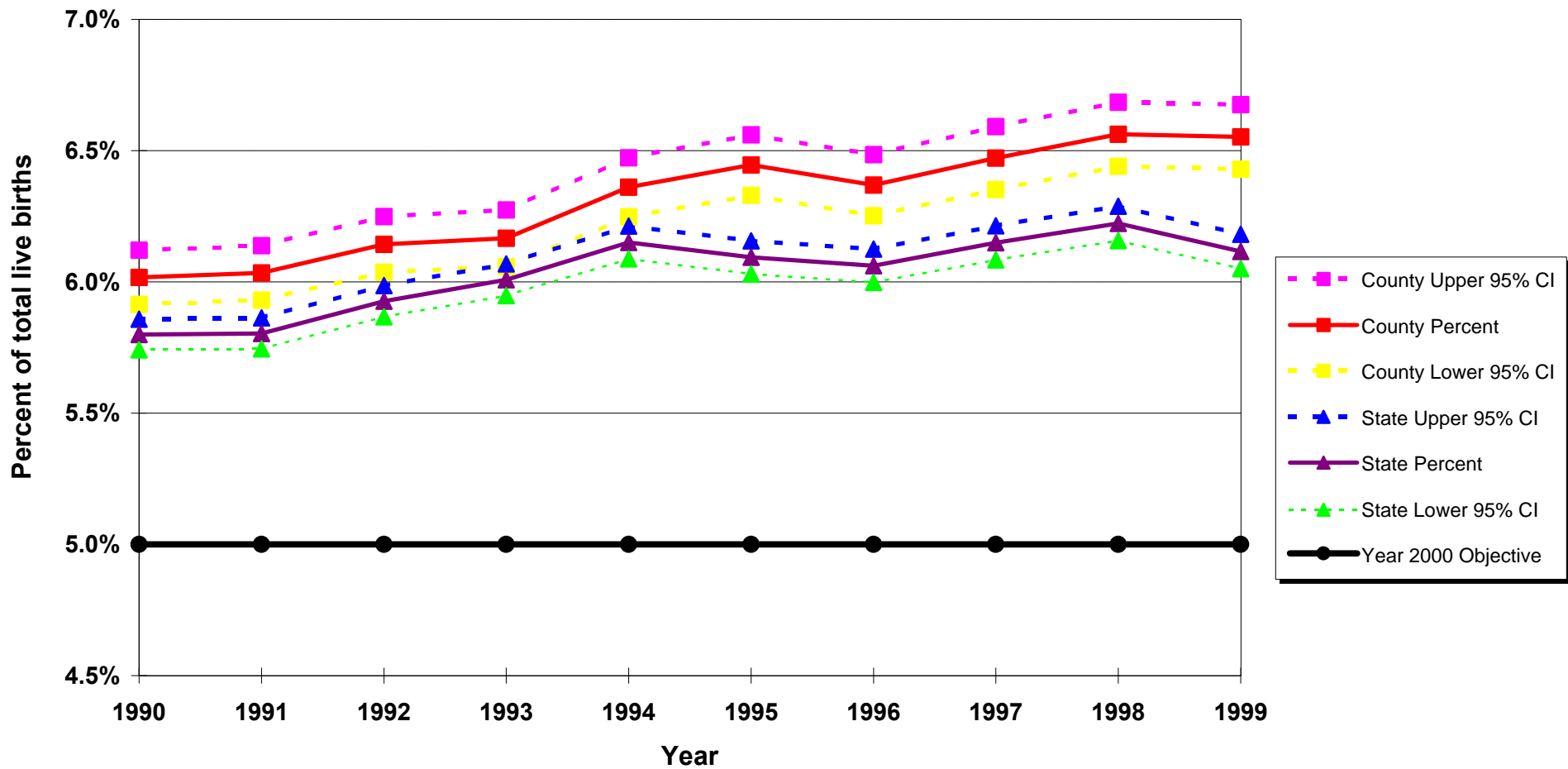
Reduce low birthweight to an incidence of no more than 5 percent of live births. (Baseline: 6.9 percent in 1987) (Objective 14.5)

**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 interval; 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 pre-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				LA County				DENOMINATOR: Live Births	
	Low Birthweight		95% Confidence Interval		Low Birthweight		95% Confidence Interval		California	LA County
	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper		
1990	35,474	5.80%	5.74%	5.86%	12,283	6.02%	5.91%	6.12%	611,666	204,124
1991	35,359	5.80%	5.75%	5.86%	12,234	6.03%	5.93%	6.14%	609,228	202,737
1992	35,608	5.93%	5.87%	5.99%	12,127	6.14%	6.04%	6.25%	600,838	197,415
1993	35,116	6.01%	5.95%	6.07%	11,698	6.17%	6.06%	6.27%	584,483	189,706
1994	34,876	6.15%	6.09%	6.21%	11,474	6.36%	6.25%	6.47%	567,034	180,394
1995	33,588	6.09%	6.03%	6.16%	11,270	6.45%	6.33%	6.56%	551,226	174,862
1996	32,649	6.06%	6.00%	6.13%	10,761	6.37%	6.25%	6.48%	538,628	168,973
1997	32,232	6.15%	6.08%	6.21%	10,487	6.47%	6.35%	6.59%	524,174	162,036
1998	32,438	6.22%	6.16%	6.29%	10,408	6.56%	6.44%	6.68%	521,265	158,604
1999	31,686	6.12%	6.05%	6.18%	10,232	6.55%	6.43%	6.68%	518,073	156,153

Source: 1990-1999 birth records from California Department of Health Services, Center for Health Statistics

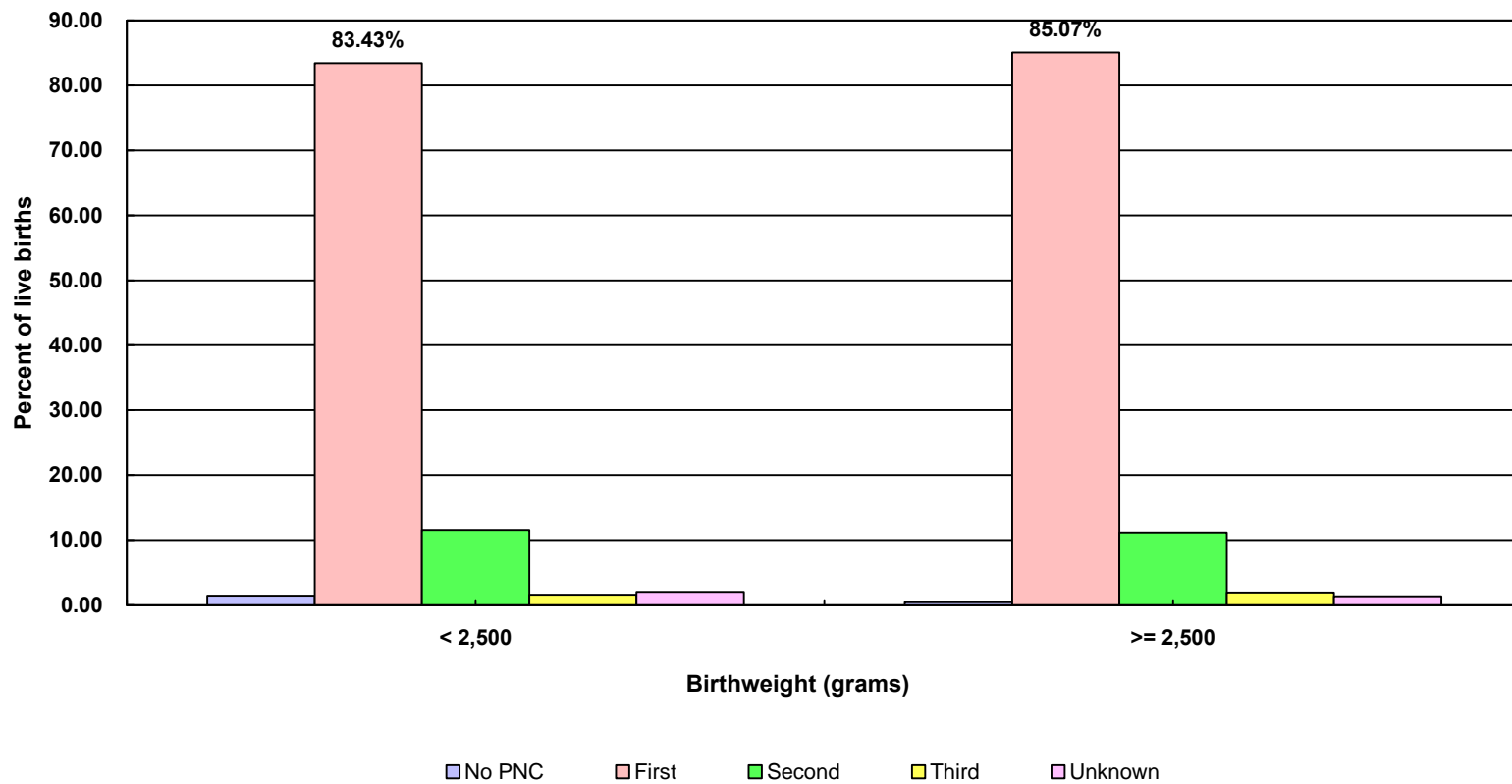
## Percent of Low Birthweight California vs. Los Angeles County, 1990 - 1999



**Year 2000 Objective:** Reduce low birthweight to an incidence of no more than 5 percent of live births

**Source:** 1990-1999 birth records from California Department of Health Services, Center for Health Statistics

**Percent of Live Births by Mother's Trimester Prenatal Care (PNC) Began by Birthweight  
Los Angeles County, 1999**

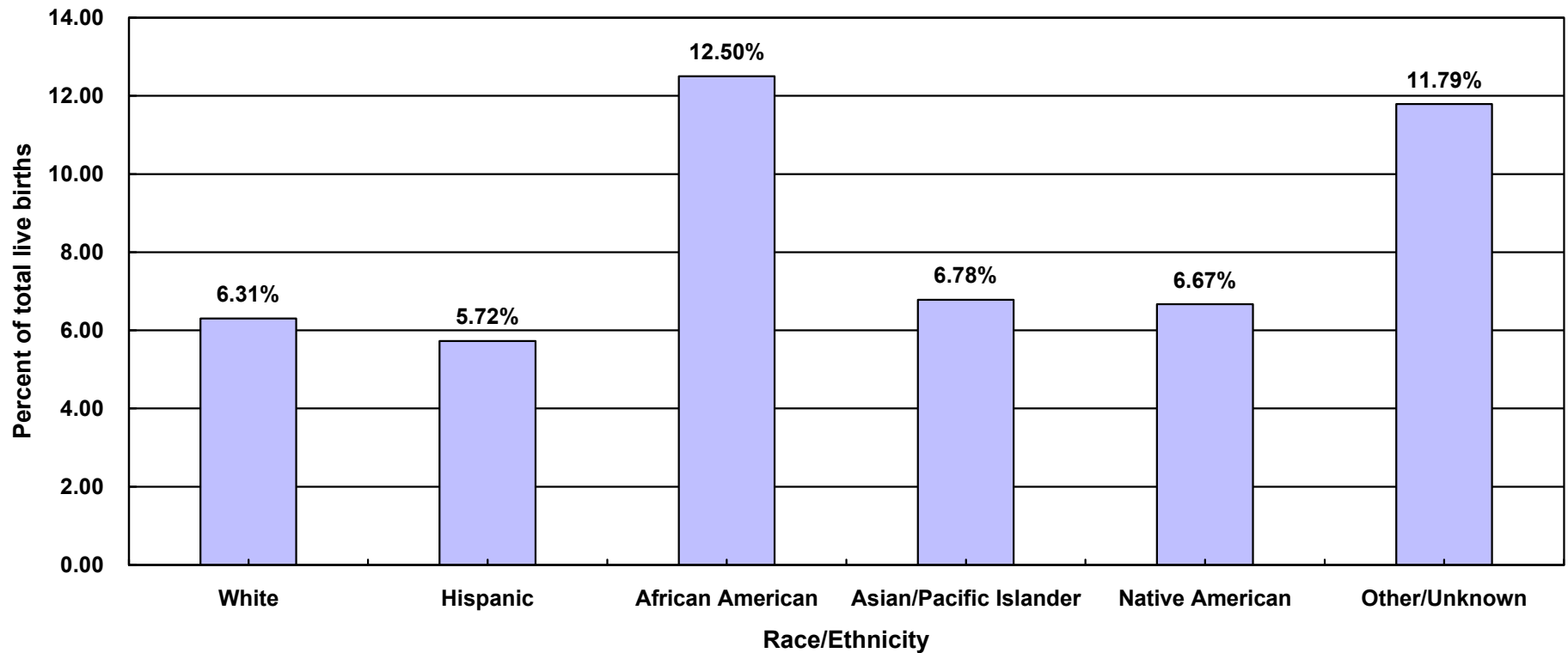


Live Births	Birthweight (grams)			
	< 2,500		≥ 2,500	
	Number	Percent	Number	Percent
No PNC	147	1.44	646	0.44
First	8,537	83.43	124,133	85.07
Second	1,180	11.53	16,302	11.17
Third	162	1.58	2,842	1.95
Unknown	206	2.01	1,997	1.37
<b>Total</b>	<b>10,232</b>	<b>100.00</b>	<b>145,920</b>	<b>100.00</b>

**Note:** Live births with unknown birthweight were excluded from this analysis.

**Source:** 1999 birth records from the California Department of Health Services, Center for Health Statistics

**Low Birthweight Live Births, as Percent of Total Live Births, by Mother's Race/Ethnicity\*  
Los Angeles County, 1999**



	Race/Ethnicity											
	White		Hispanic		African American		Asian/Pacific Islander		Native American		Other/Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<2,500 grams	1,861	6.31	5,558	5.72	1,716	12.50	1,021	6.78	18	6.67	58	11.79
<b>Total</b>	29,514	100.00	97,103	100.00	13,724	100.00	15,050	100.00	270	100.00	492	100.00

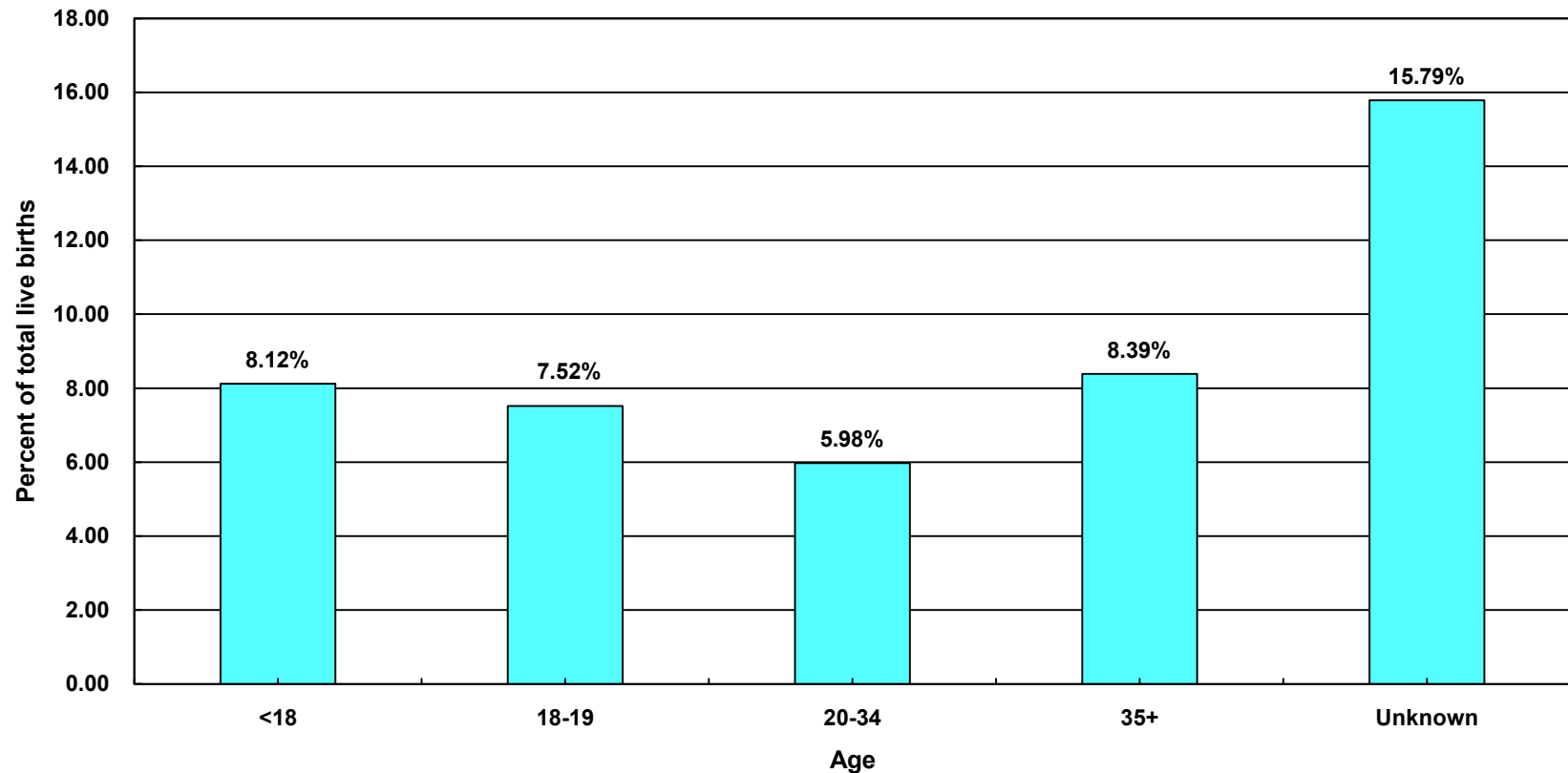
**Year 2000 Objective:** Reduce low birthweight to an incidence of no more than 5 percent of live births.

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

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

**Source:** 1999 birth records from the California Department of Health Services, Center for Health Statistics

**Low Birthweight Live Births, as Percent of Total Live Births, by Mother's Age  
Los Angeles County, 1999**



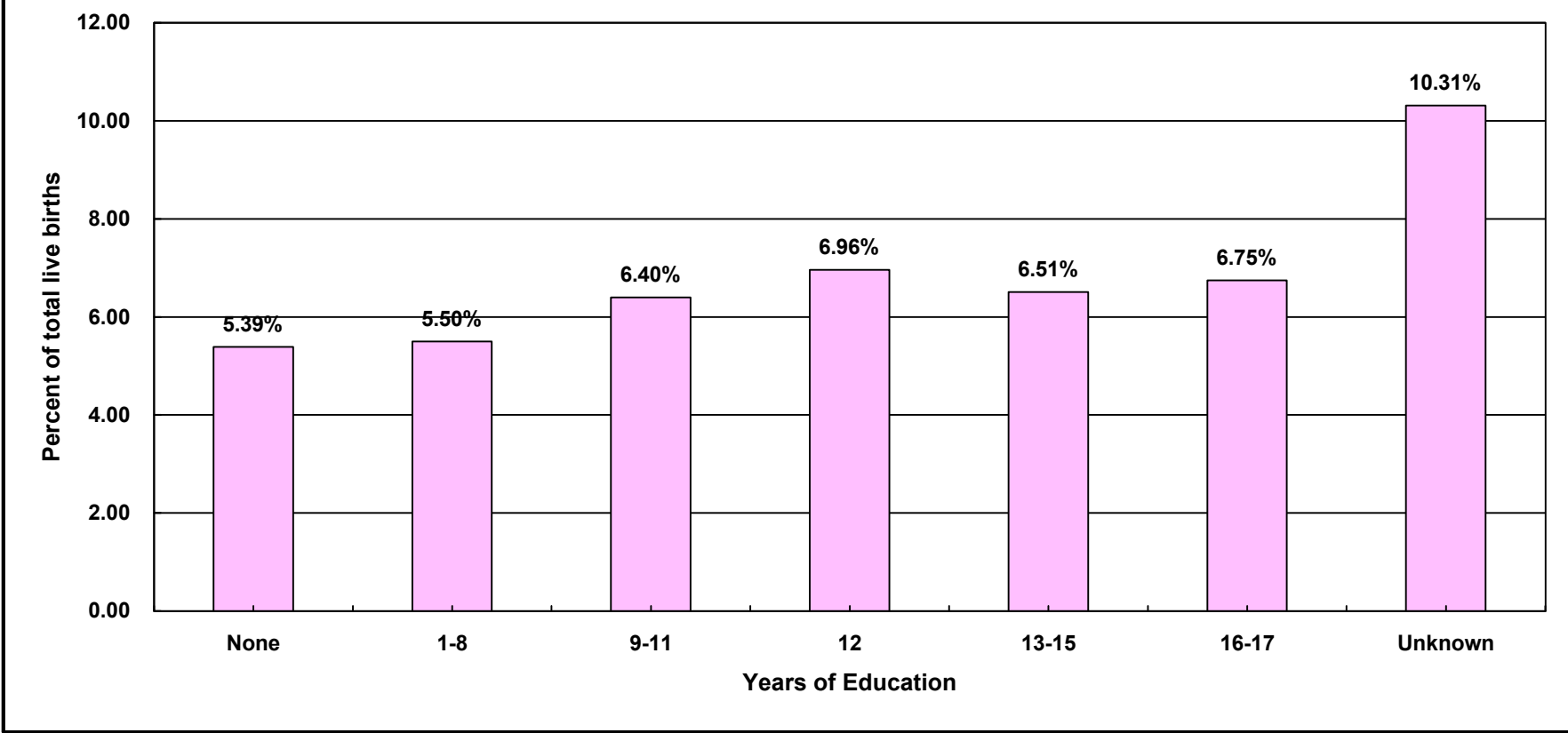
	Age									
	< 18		18 - 19		20 - 34		35+		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<2,500 grams	537	8.12	816	7.52	6,832	5.98	2,041	8.39	6	15.79
<b>Total</b>	6,616	100.00	10,850	100.00	114,315	100.00	24,334	100.00	38	100.00

**Year 2000 Objective:** Reduce low birthweight to an incidence of no more than 5 percent of live births.

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

**Source:** 1999 birth records from the California Department of Health Services, Center for Health Statistics

**Low Birthweight Live Births, as Percent of Total Live Births  
by Mother's Years of Education  
Los Angeles County, 1999**



	Years of Education													
	None		1 - 8		9 - 11		12		13 - 15		16 - 17		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<2,500 grams	27	5.39	1,270	5.50	2,164	6.40	3,030	6.96	1,725	6.51	1,783	6.75	233	10.31
<b>Total</b>	501	100.00	23,104	100.00	33,828	100.00	43,524	100.00	26,504	100.00	26,432	100.00	2,260	100.00

**Year 2000 Objective:** Reduce low birthweight to an incidence of no more than 5 percent of live births.

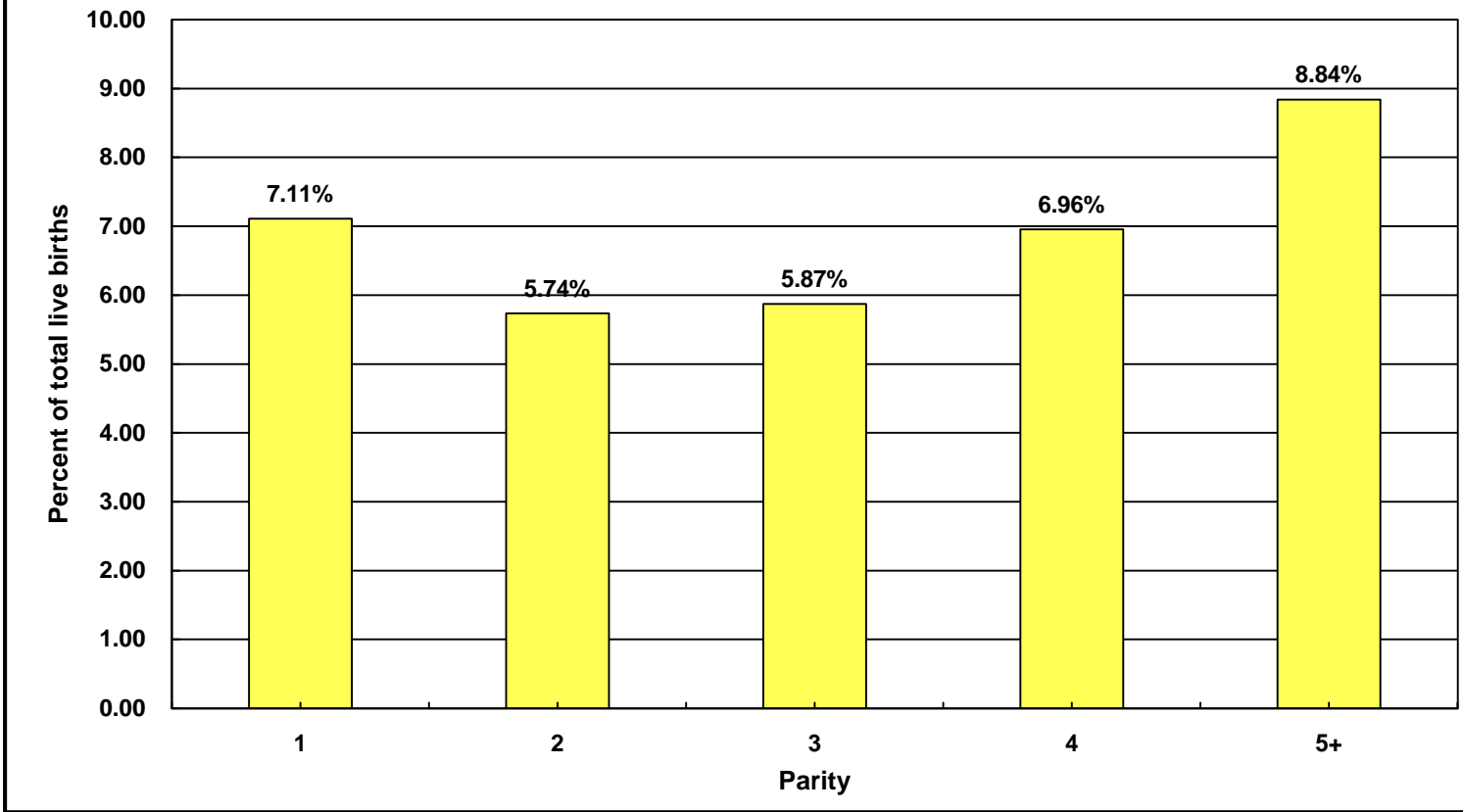
**Note:** Low birthweight is defined as weight less than 2,500 grams at birth.

Year '17' = mothers who attained college degree or above

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

**Source:** 1999 birth records from the California Department of Health Services, Center for Health Statistics

**Low Birthweight Live Births, as Percent of Total Live Births, by Parity**  
**Los Angeles County, 1999**



	Parity											
	1		2		3		4		5+		Not Stated	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<2,500 grams	4,183	7.11	2,795	5.74	1,638	5.87	838	6.96	751	8.84	27	16.67
<b>Total</b>	58,827	100.00	48,735	100.00	27,887	100.00	12,048	100.00	8,494	100.00	162	100.00

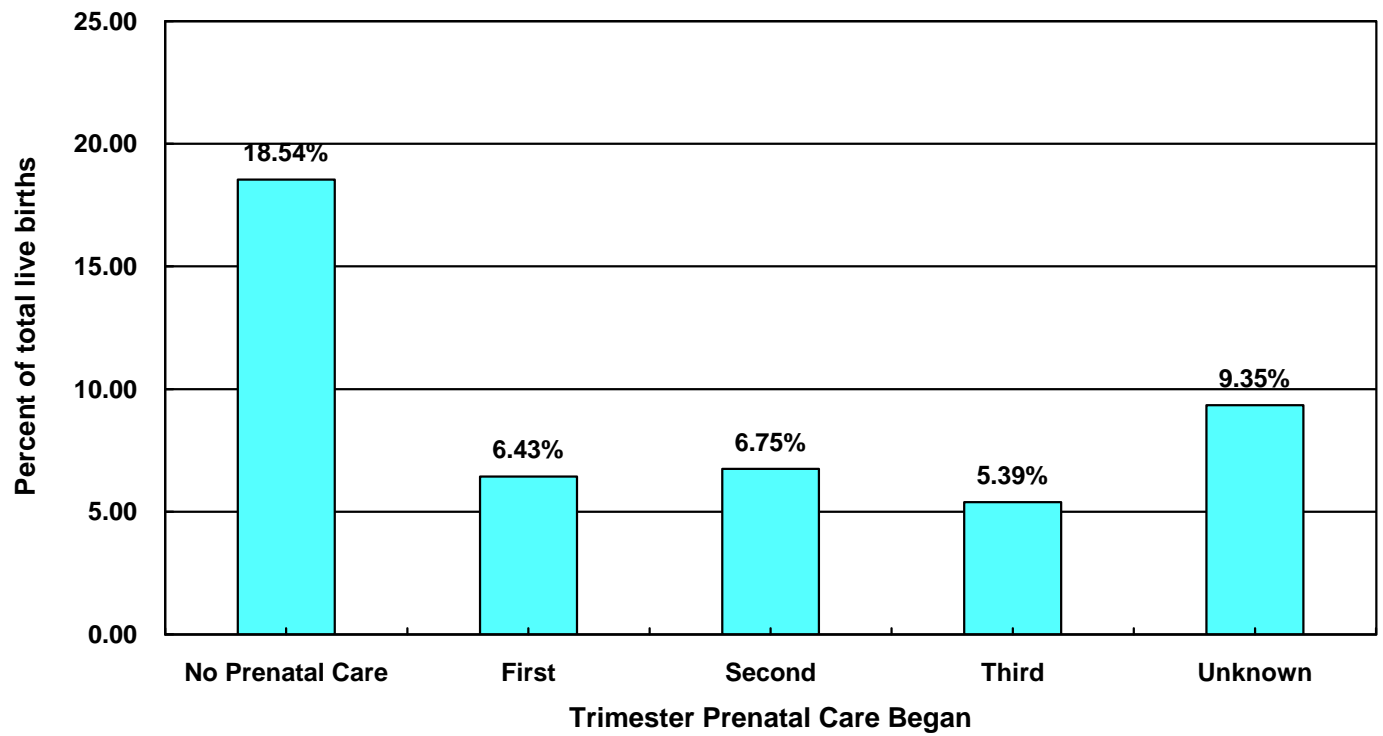
**Year 2000 Objective:** Reduce low birthweight to an incidence of no more than 5 percent of live births.

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

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

**Source:** 1999 birth records from the California Department of Health Services, Center for Health Statistics

**Low Birthweight Live Births, as Percent of Total Live Births  
by Mother's Trimester Prenatal Care (PNC) Began  
Los Angeles County, 1999**



	Trimester Prenatal Care Began									
	No Prenatal Care		First		Second		Third		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<2,500 grams	147	18.54	8,537	6.43	1,180	6.75	162	5.39	206	9.35
<b>Total</b>	<b>793</b>	<b>100.00</b>	<b>132,670</b>	<b>100.00</b>	<b>17,482</b>	<b>100.00</b>	<b>3,004</b>	<b>100.00</b>	<b>2,204</b>	<b>100.00</b>

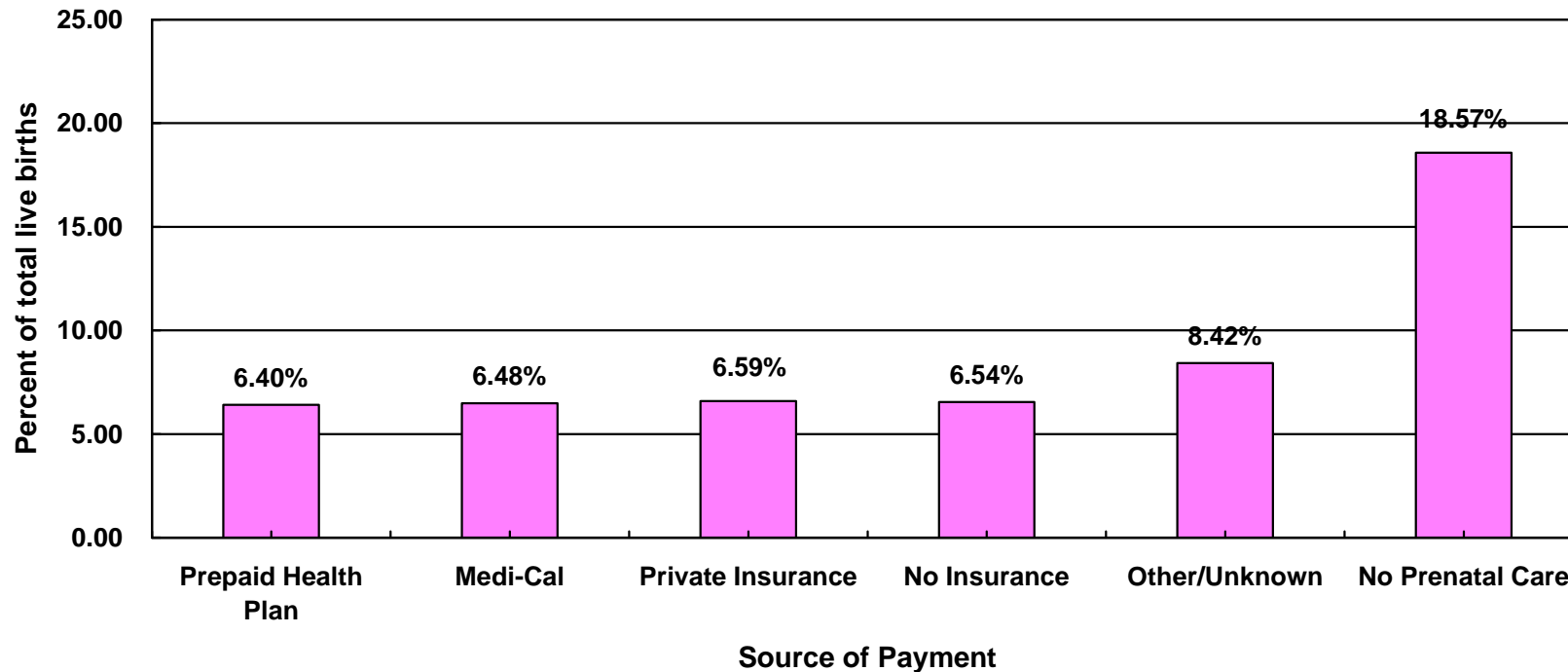
**Year 2000 Objective:** Reduce low birthweight to an incidence of no more than 5 percent of live births.

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

**Source:** 1999 birth records from the California Department of Health Services, Center for Health Statistics



**Low Birthweight Live Births, as Percent of Total Live Births,  
by Payment Source for Prenatal Care (PNC)  
Los Angeles County, 1999**



	Source of Payment											
	Prepaid Health Plan		Medi-Cal		Private Insurance		No Insurance		Other/Unknown		No Prenatal Care	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<2,500 grams	3,078	6.40	4,747	6.48	1,920	6.59	252	6.54	87	8.42	148	18.57
<b>Total</b>	48,088	100.00	73,259	100.00	29,121	100.00	3,855	100.00	1,033	100.00	797	100.00

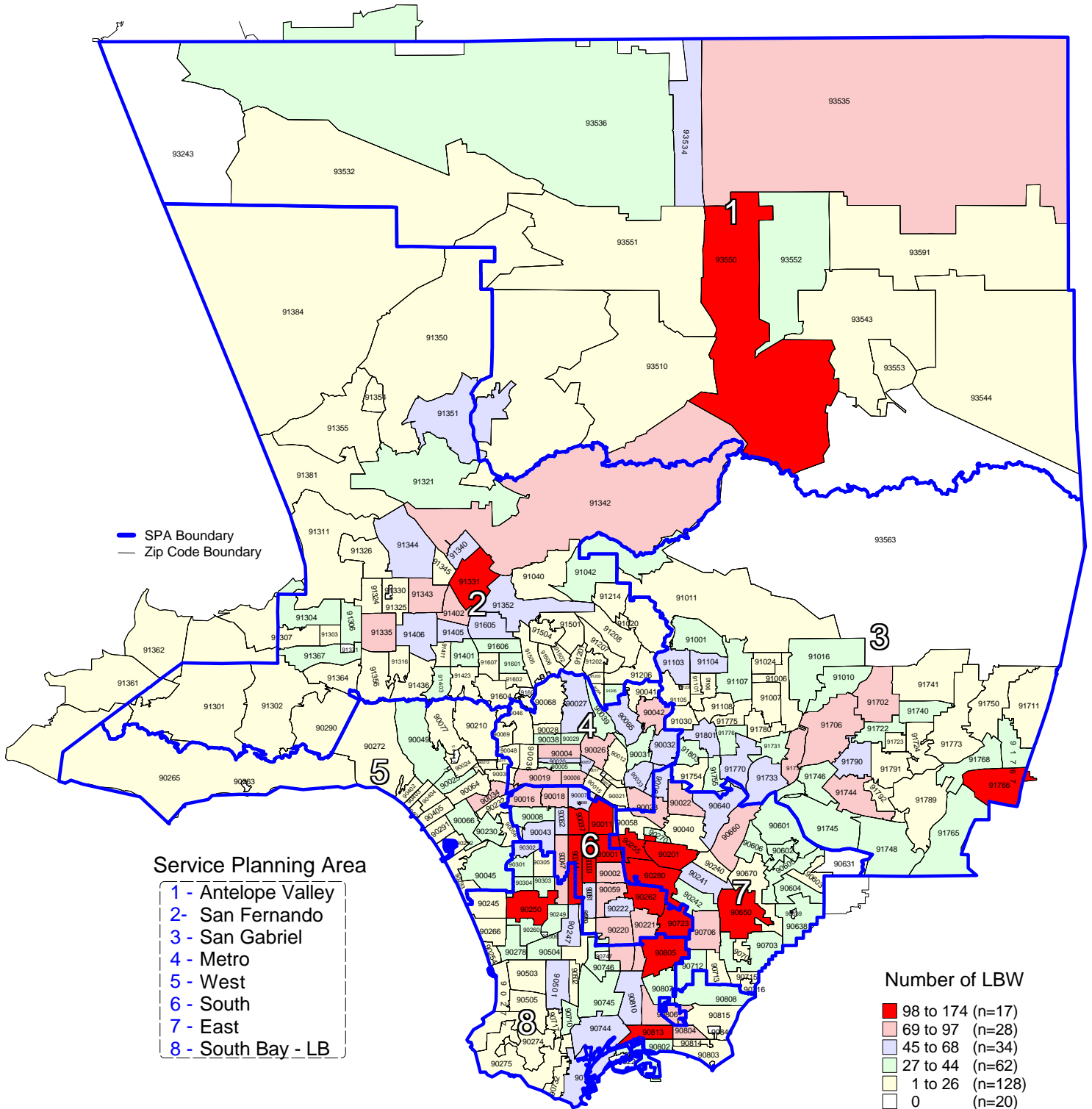
**Year 2000 Objective:** Reduce low birthweight to an incidence of no more than 5 percent of live births.

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

**Source:** 1999 birth records from the California Department of Health Services, Center for Health Statistics

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

Los Angeles County, 1999



\*Los Angeles County zip code boundaries as of April 1999.

Total number of live births in Los Angeles County, 1999 = 156,153

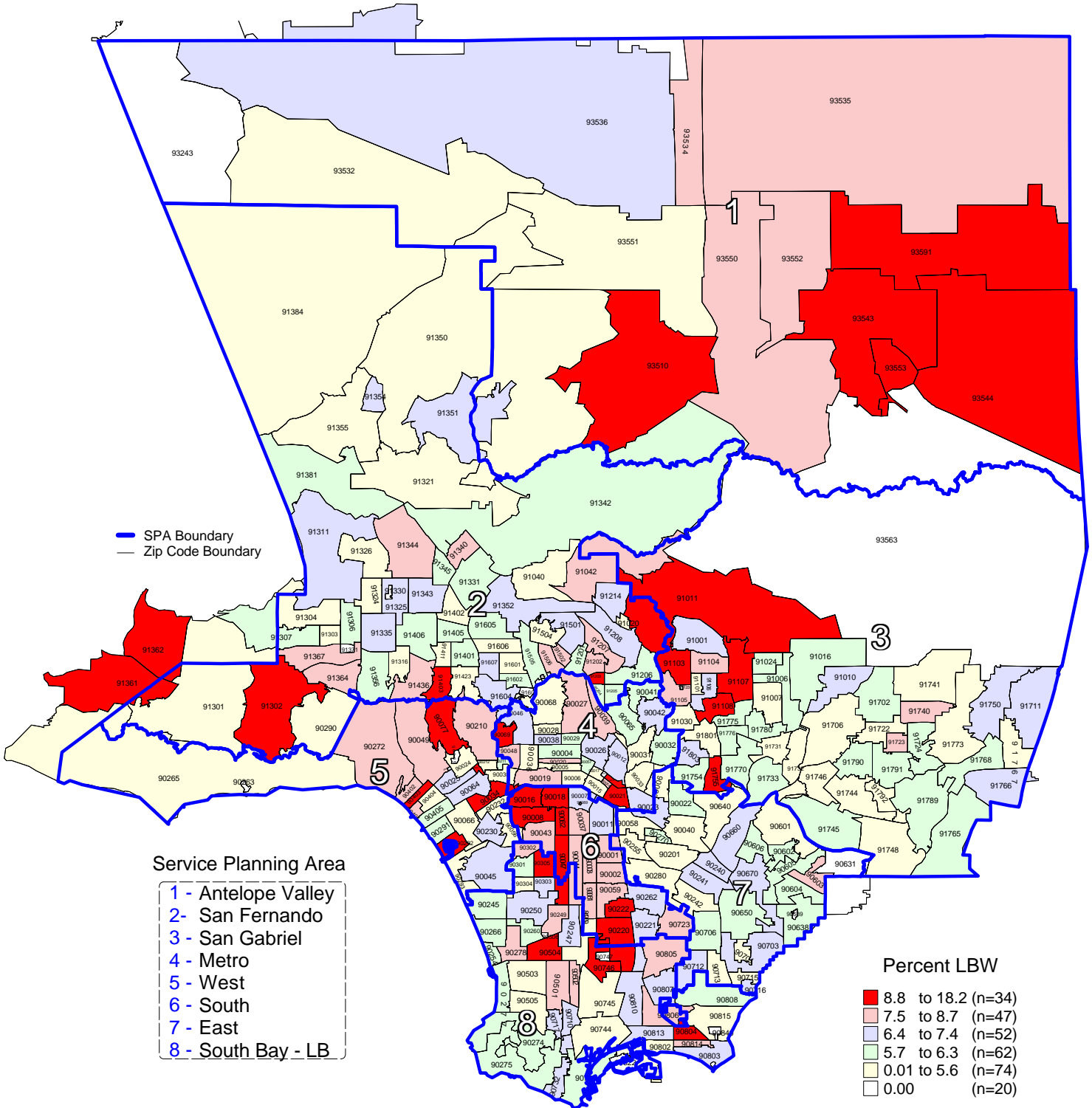
Note: Low birthweight is defined as weight less than 2,500 grams at birth.

Source: 1999 birth records from California Department of Health Services, Center for Health Statistics

n = total number of zip codes in range

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Los Angeles County, 1999



\*Los Angeles County zip code boundaries as of April 1999.

Total number of live births in Los Angeles County, 1999 = 156,153

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

Source: 1998 birth records from California Department of Health Services, Center for Health Statistics



\*\* Year 2000

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

n = total number of zip codes in range

**TITLE V INDICATOR TEMPLATES**

**INDICATOR:** 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 2000 OBJECTIVE:**

Reduce very low birthweight to an incidence of no more than 1 percent of live births. (Baseline: 1.2 percent in 1987) (Objective 14.5)

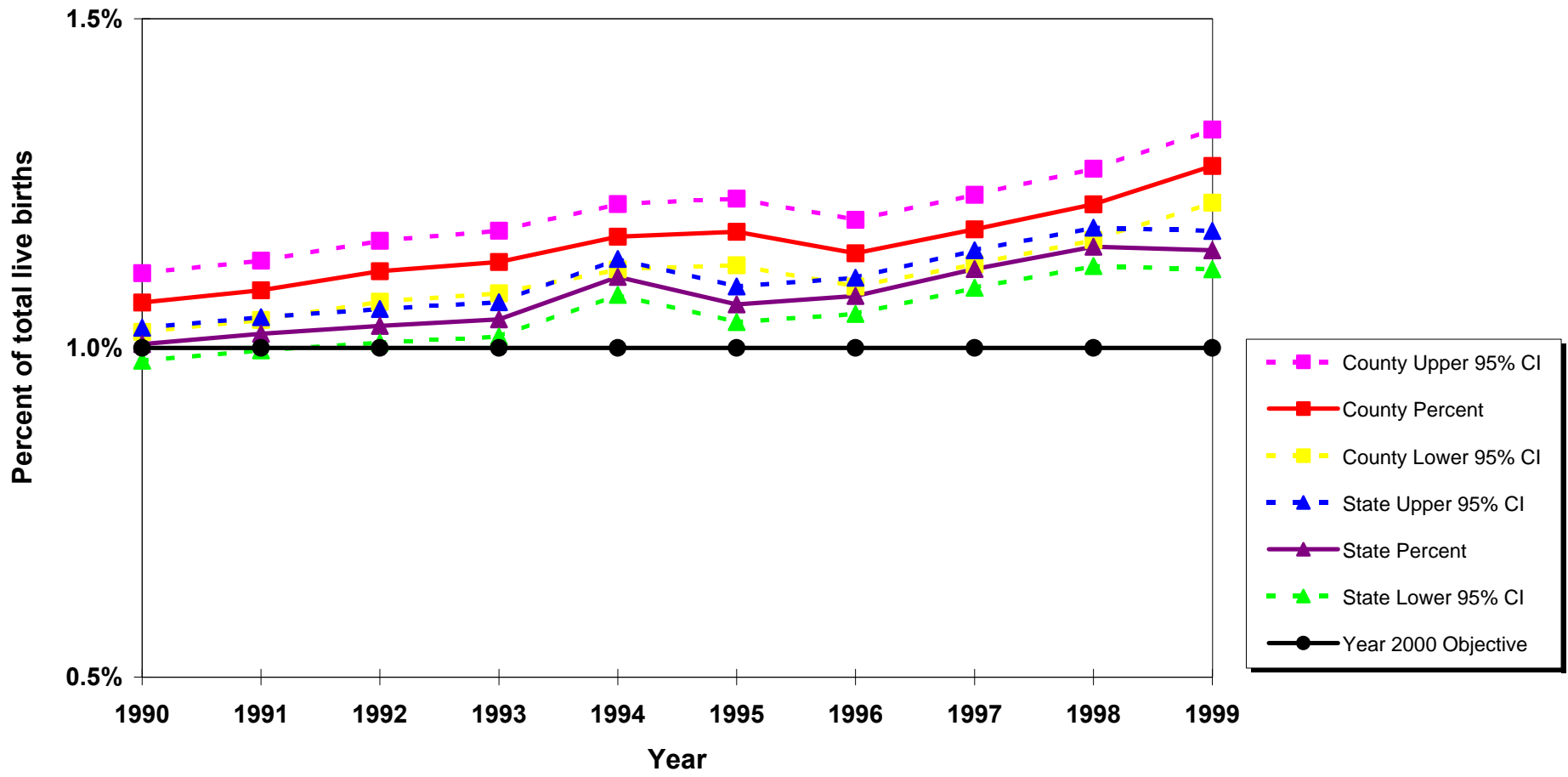
**RISK FACTORS:** Preterm birth; prior preterm birth; race/ethnicity (African American, Puerto Rican); substance use/abuse (e.g. illicit drug use)

See also risk factors for low birthweight.

Year	California				LA County				DENOMINATOR: Live Birth	
	Very Low Birthweight		95% Confidence Interval		Very Low Birthweight		95% Confidence Interval			
	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper	California	LA County
1990	6,152	1.01%	0.98%	1.03%	2,182	1.07%	1.02%	1.11%	611,666	204,124
1991	6,223	1.02%	1.00%	1.05%	2,205	1.09%	1.04%	1.13%	609,228	202,737
1992	6,209	1.03%	1.01%	1.06%	2,204	1.12%	1.07%	1.16%	600,838	197,415
1993	6,099	1.04%	1.02%	1.07%	2,145	1.13%	1.08%	1.18%	584,483	189,706
1994	6,282	1.11%	1.08%	1.14%	2,109	1.17%	1.12%	1.22%	567,034	180,394
1995	5,877	1.07%	1.04%	1.09%	2,057	1.18%	1.13%	1.23%	551,226	174,862
1996	5,812	1.08%	1.05%	1.11%	1,933	1.14%	1.09%	1.19%	538,628	168,973
1997	5,869	1.12%	1.09%	1.15%	1,912	1.18%	1.13%	1.23%	524,174	162,036
1998	6,013	1.15%	1.12%	1.18%	1,932	1.22%	1.16%	1.27%	521,265	158,604
1999	5,950	1.15%	1.12%	1.18%	1,993	1.28%	1.22%	1.33%	518,073	156,153

**Source:** 1990-1999 birth records from California Department of Health Services, Center for Health Statistics

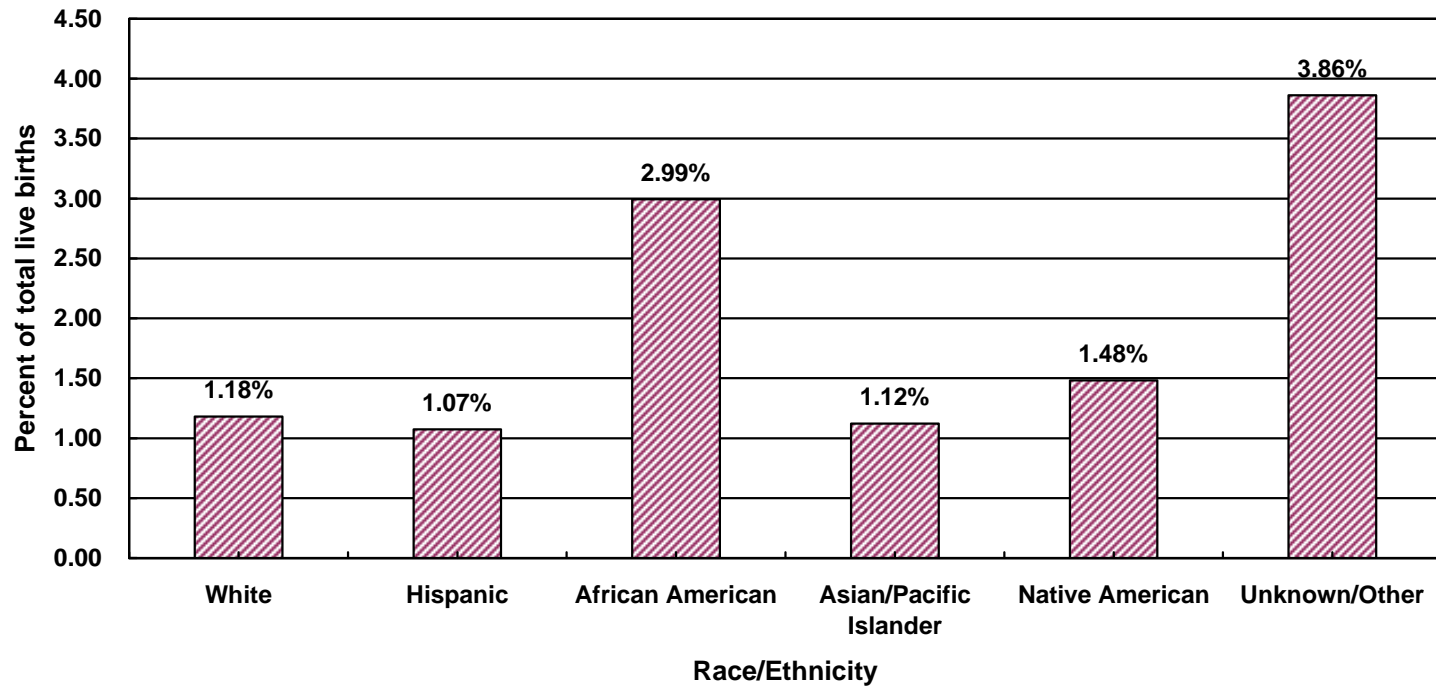
## Percent of Very Low Birthweight California vs. Los Angeles County, 1990 - 1999



**Year 2000 Objective:** Reduce very low birthweight to an incidence of no more than 1 percent of live births

**Source:** 1990-1999 birth records from California Department of Health Services, Center for Health Statistics

**Very Low Birthweight Live Births, as Percent of Total Live Births  
by Mother's Race/Ethnicity\*  
Los Angeles County, 1999**



	Race/ Ethnicity											
	White		Hispanic		African American		Asian/Pacific Islander		Native American		Unknown/Other	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<1,500 grams	348	1.18	1,042	1.07	411	2.99	169	1.12	4	1.48	19	3.86
<b>Total</b>	29,514	100.00	97,103	100.00	13,724	100.00	15,050	100.00	270	100.00	492	100.00

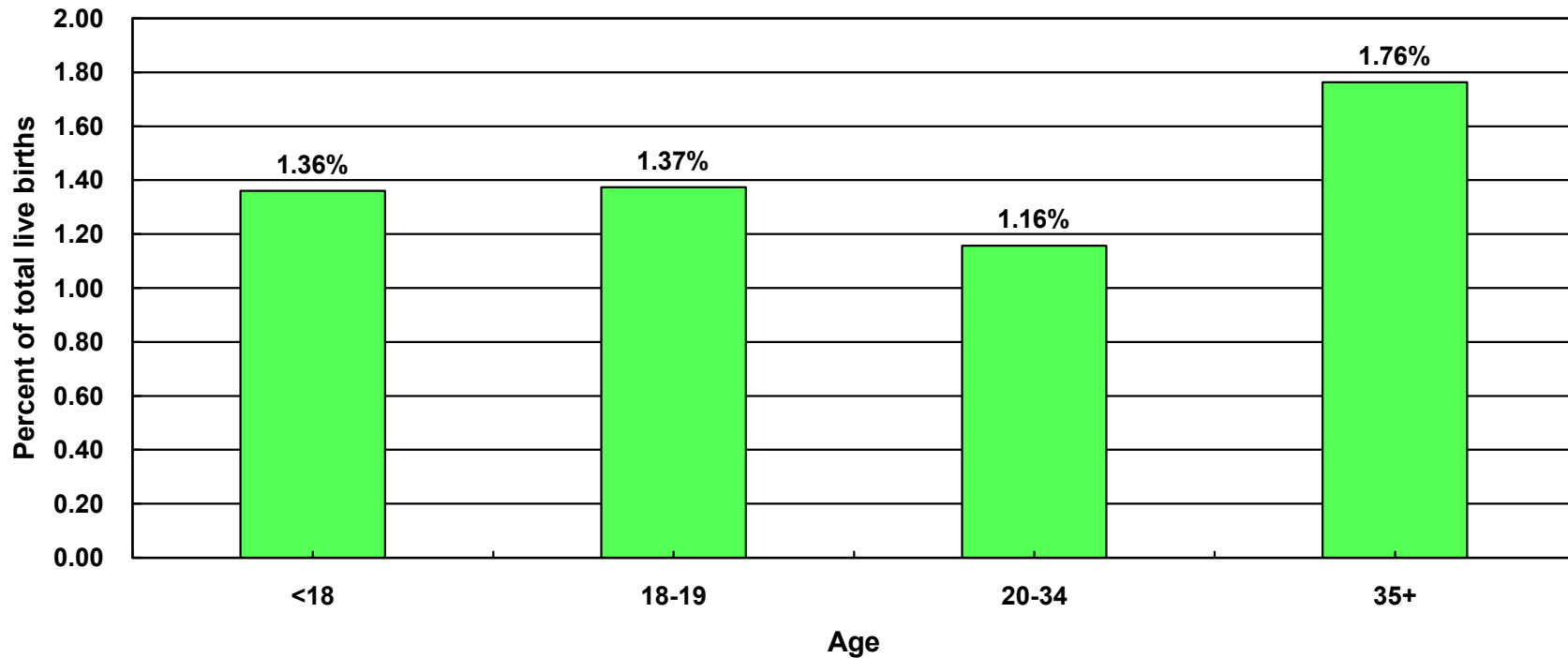
\* White, African American, Asian/Pacific Islander, Native American and other races exclude Hispanic ethnicity  
Hispanic includes any race category

**Year 2000 Objective:** Reduce very low birthweight to an incidence of no more than 1 percent of live births.

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

**Source:** 1999 birth records from the California Department of Health Services, Center for Health Statistics

**Very Low Birthweight Live Births, as Percent of Total Live Births  
by Mother's Age  
Los Angeles County, 1999**



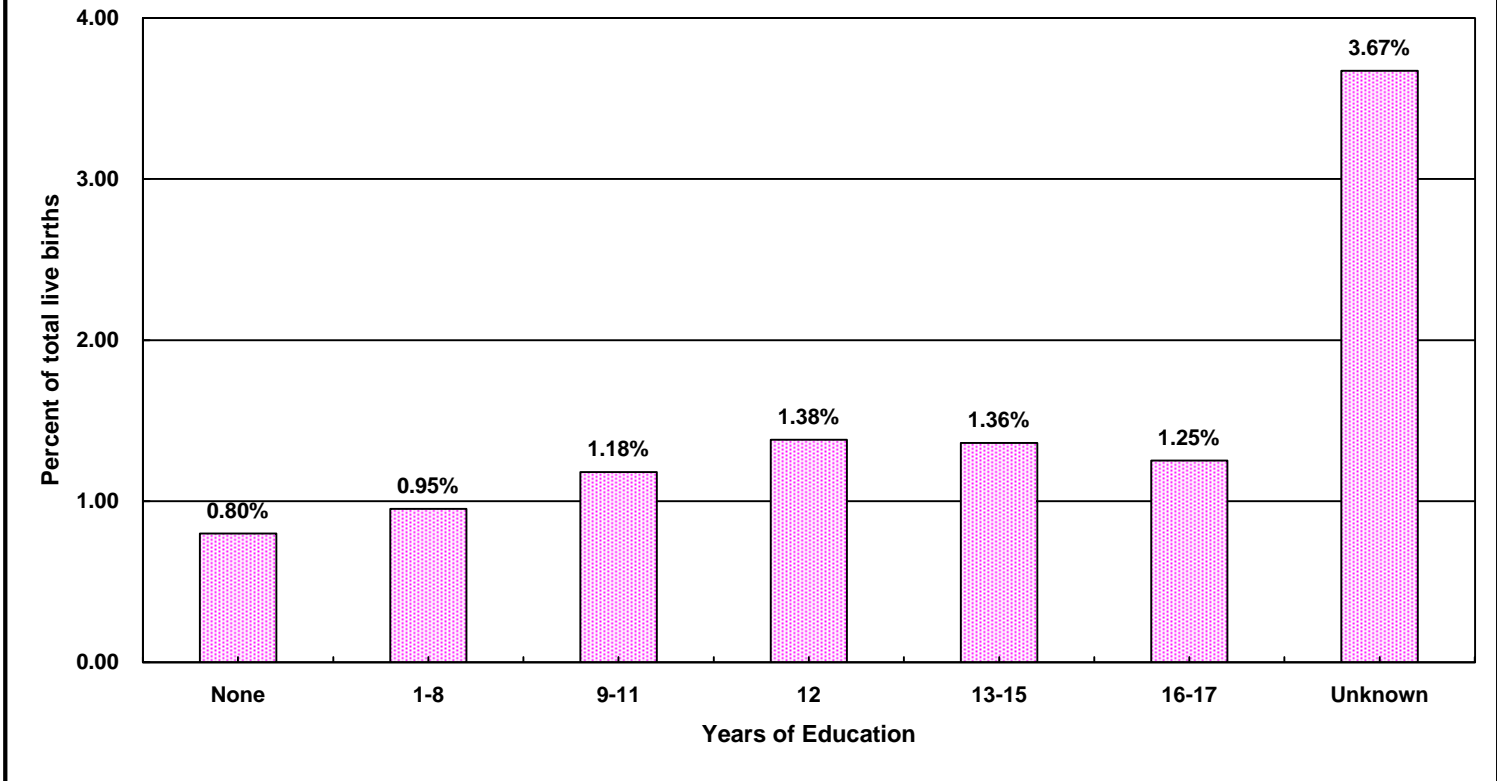
	Age									
	<18		18-19		20-34		35+		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<1,500 grams	90	1.36	149	1.37	1,323	1.16	429	1.76	2	5.26
<b>Total</b>	6,616	100.00	10,850	100.00	114,315	100.00	24334	100.00	38	100.00

**Year 2000 Objective:** Reduce very low birthweight to an incidence of no more than 1 percent of live births.

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

**Source:** 1999 birth records from the California Department of Health Services, Center for Health Statistics

**Very Low Birthweight Live Births, as Percent of Total Live Births  
by Mother's Years of Education  
Los Angeles County, 1999**



	Years of Education													
	None		1-8		9-11		12		13-15		16-17		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<1,500 grams	4	0.80	220	0.95	393	1.18	601	1.38	361	1.36	331	1.25	83	3.67
<b>Total</b>	501	100.00	23,104	100.00	33,282	100.00	43,524	100.00	26,504	100.00	26,432	100.00	2,260	100.00

**Year 2000 Objective:** Reduce very low birthweight to an incidence of no more than 1 percent of live births.

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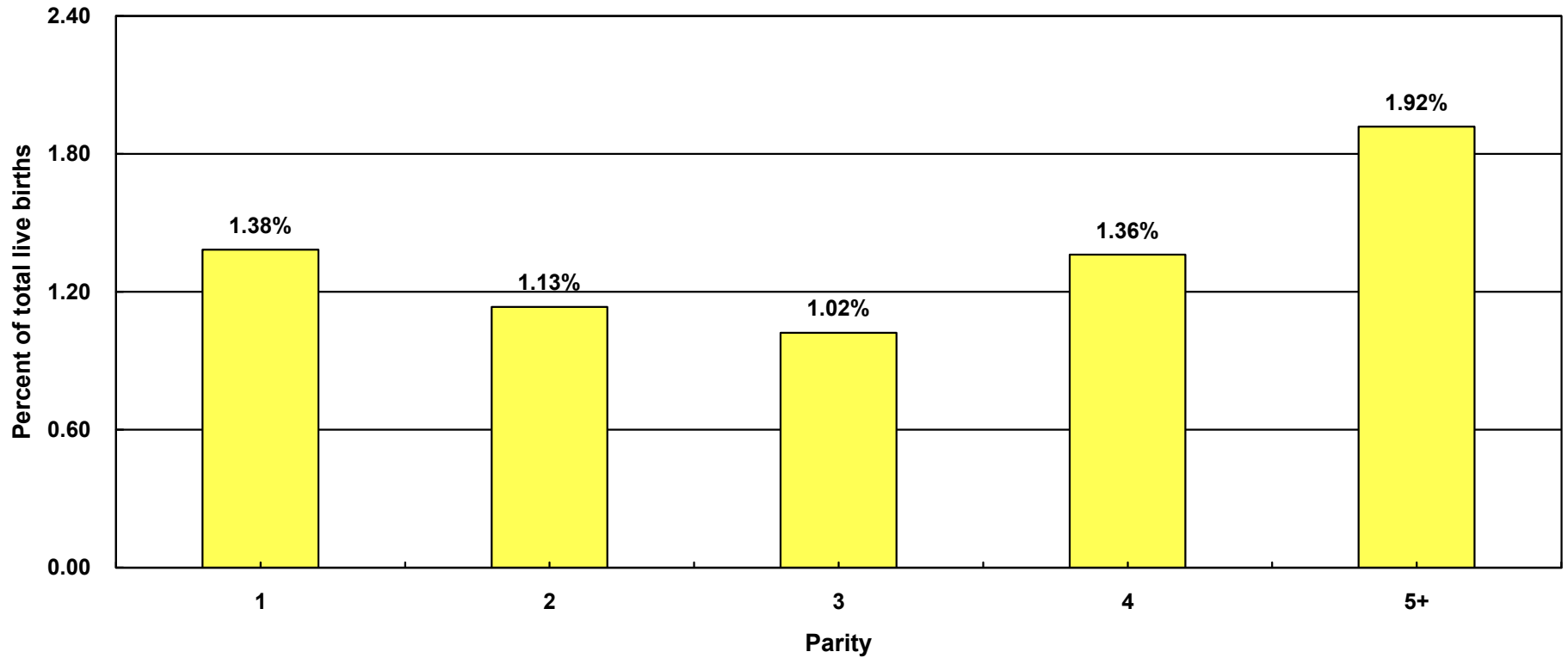
Year '17' = mothers who attained college degree or above

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

**Source:** 1999 birth records from the California Department of Health Services, Center for Health Statistics



**Very Low Birthweight Live Births, as Percent of Total Live Births by Parity  
Los Angeles County, 1999**



	Parity											
	1		2		3		4		5+		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<1,500 grams	814	1.38	553	1.13	285	1.02	164	1.36	163	1.92	14	8.64
<b>Total</b>	58,827	100.00	48,735	100.00	27,887	100.00	12,048	100.00	8,494	100.00	162	100.00

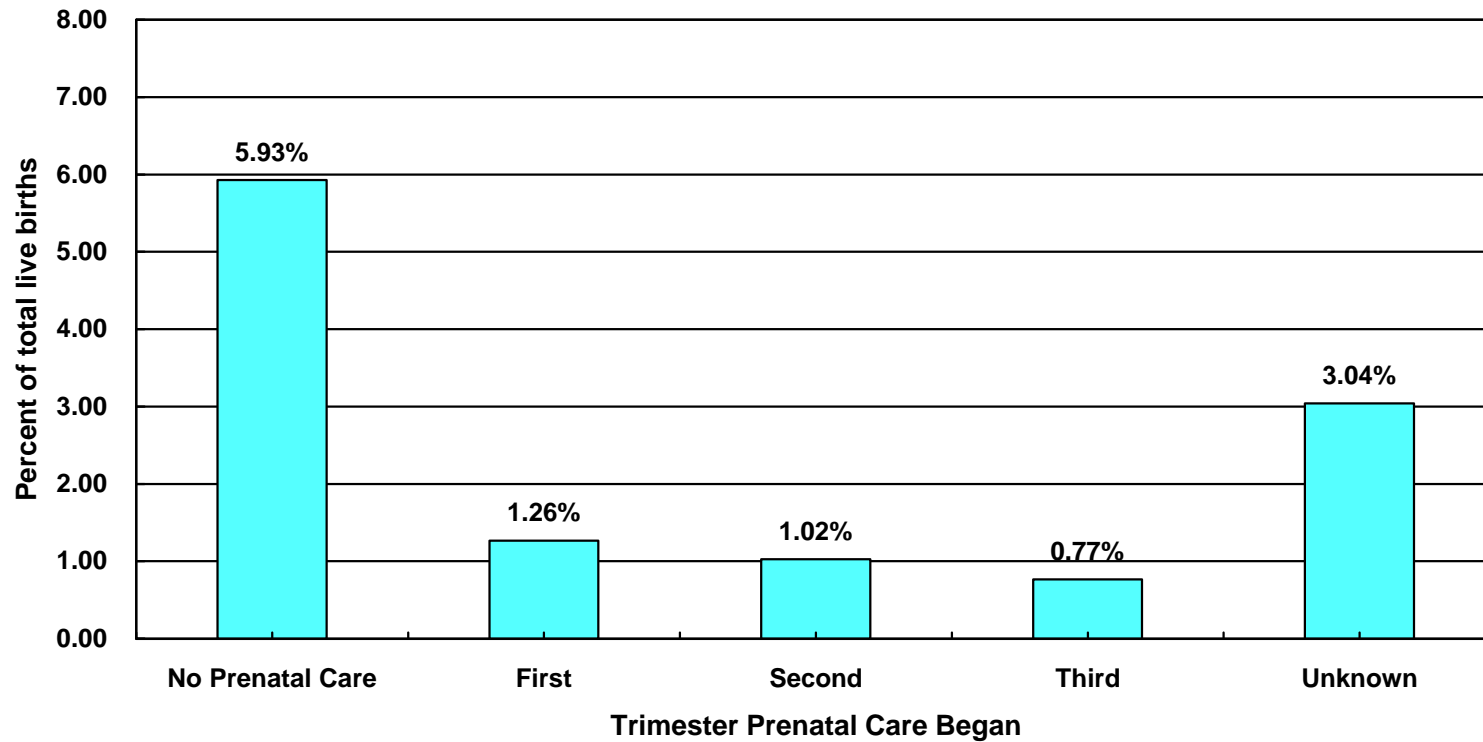
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**Very Low Birthweight Live Births, as Percent of Total Live Births  
by Mother's Trimester Prenatal Care Began  
Los Angeles County, 1999**



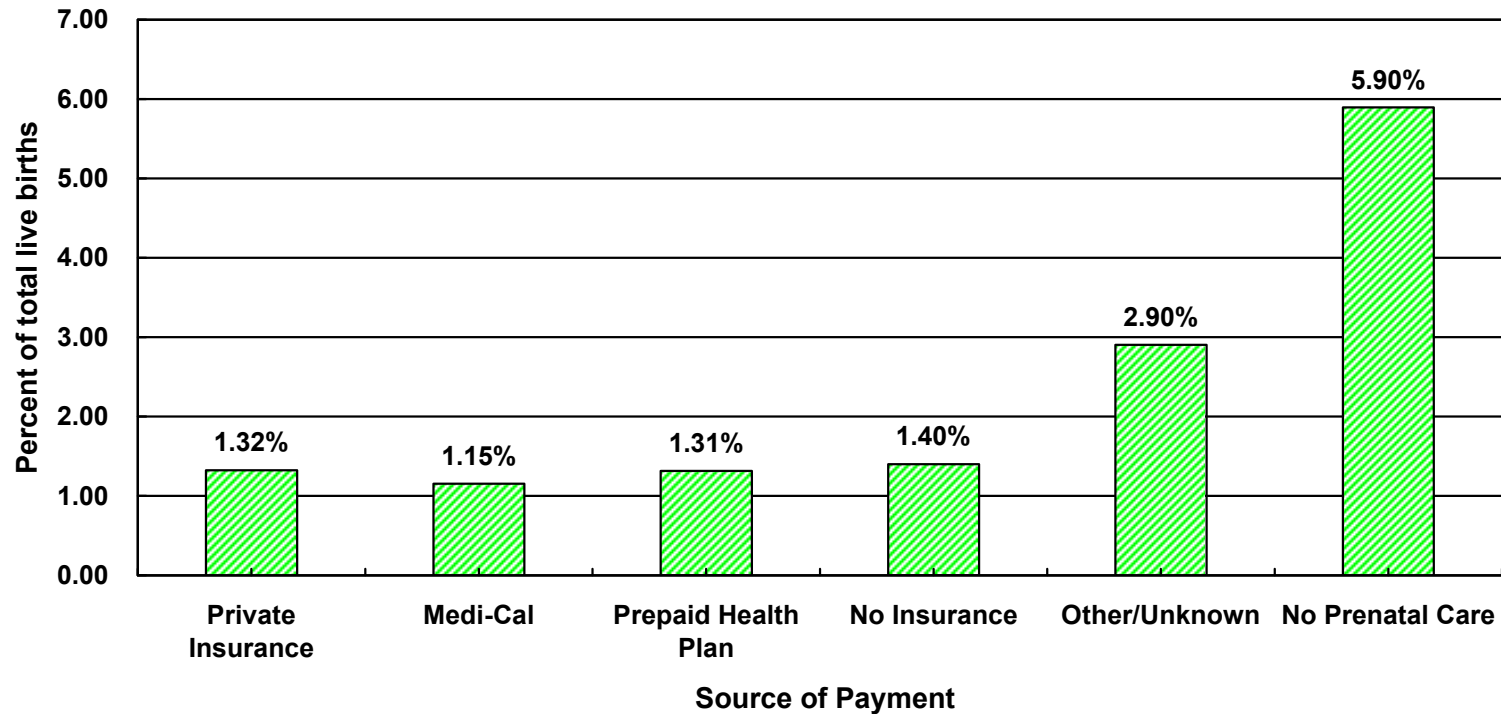
	Trimester Prenatal Care Began									
	No Prenatal Care		First		Second		Third		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<1,500 grams	47	5.93	1,677	1.26	179	1.02	23	0.77	67	3.04
<b>Total</b>	793	100.00	132,670	100.00	17,482	100.00	3,004	100.00	2,204	100.00

**Year 2000 Objective:** Reduce very low birthweight to an incidence of no more than 1 percent of live births.

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

**Source:** 1999 birth records from the California Department of Health Services, Center for Health Statistics

**Very Low Birthweight Live Births, as Percent of Total Live Births  
by Payment Source for Prenatal Care  
Los Angeles County, 1999**



	Source of Payment											
	Private Insurance		Medi-Cal		Prepaid Health Plan		No Insurance		Other/Unknown		No Prenatal Care	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<1,500 grams	385	1.32	845	1.15	632	1.31	54	1.40	30	2.90	47	5.90
<b>Total</b>	29,121	100.00	73,259	100.00	48,088	100.00	3,855	100.00	1,033	100.00	797	100.00

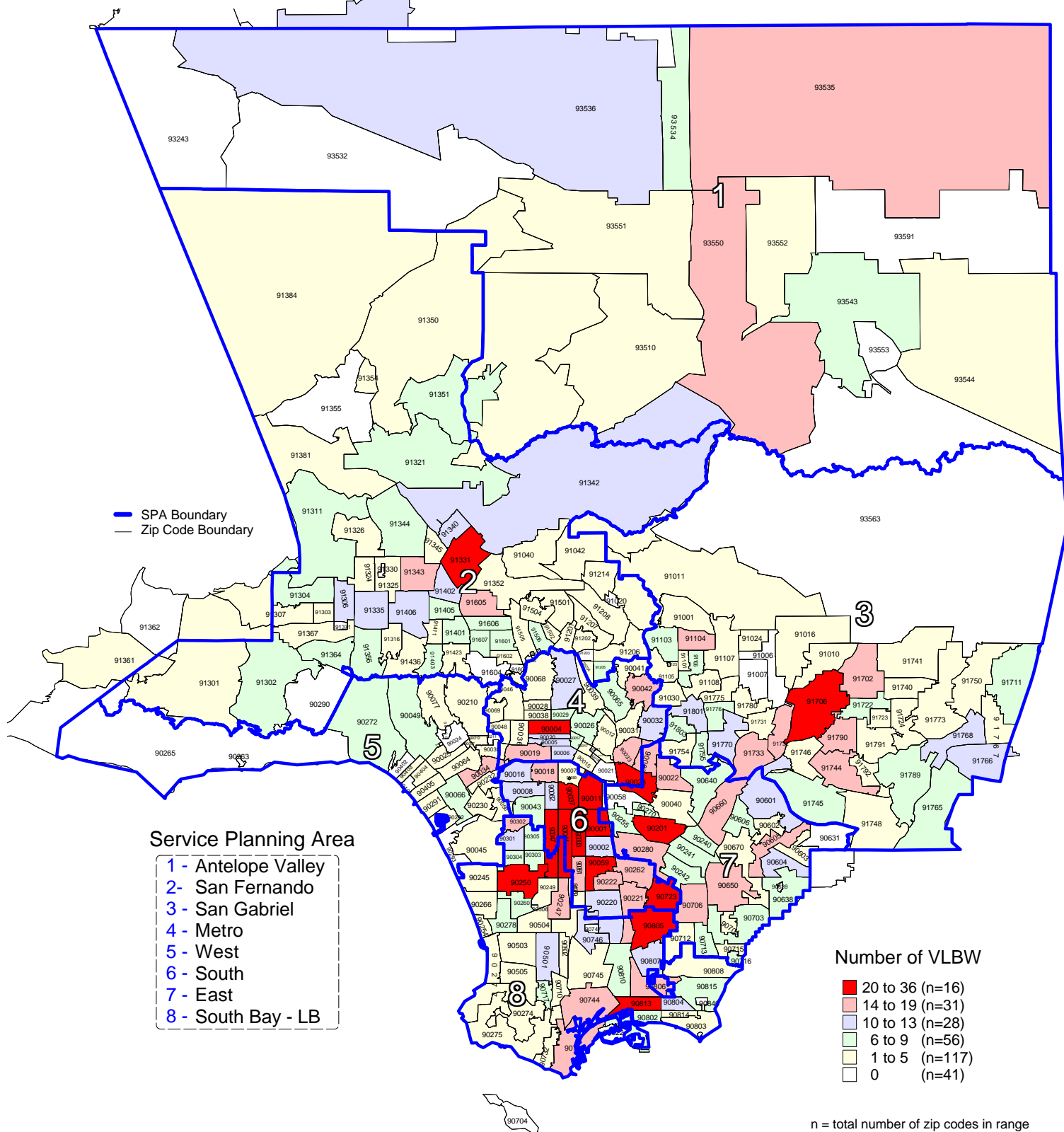
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**Source:** 1999 birth records from the California Department of Health Services, Center for Health Statistics

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

Los Angeles County, 1999



\*Los Angeles County zip code boundaries as of April 1999.

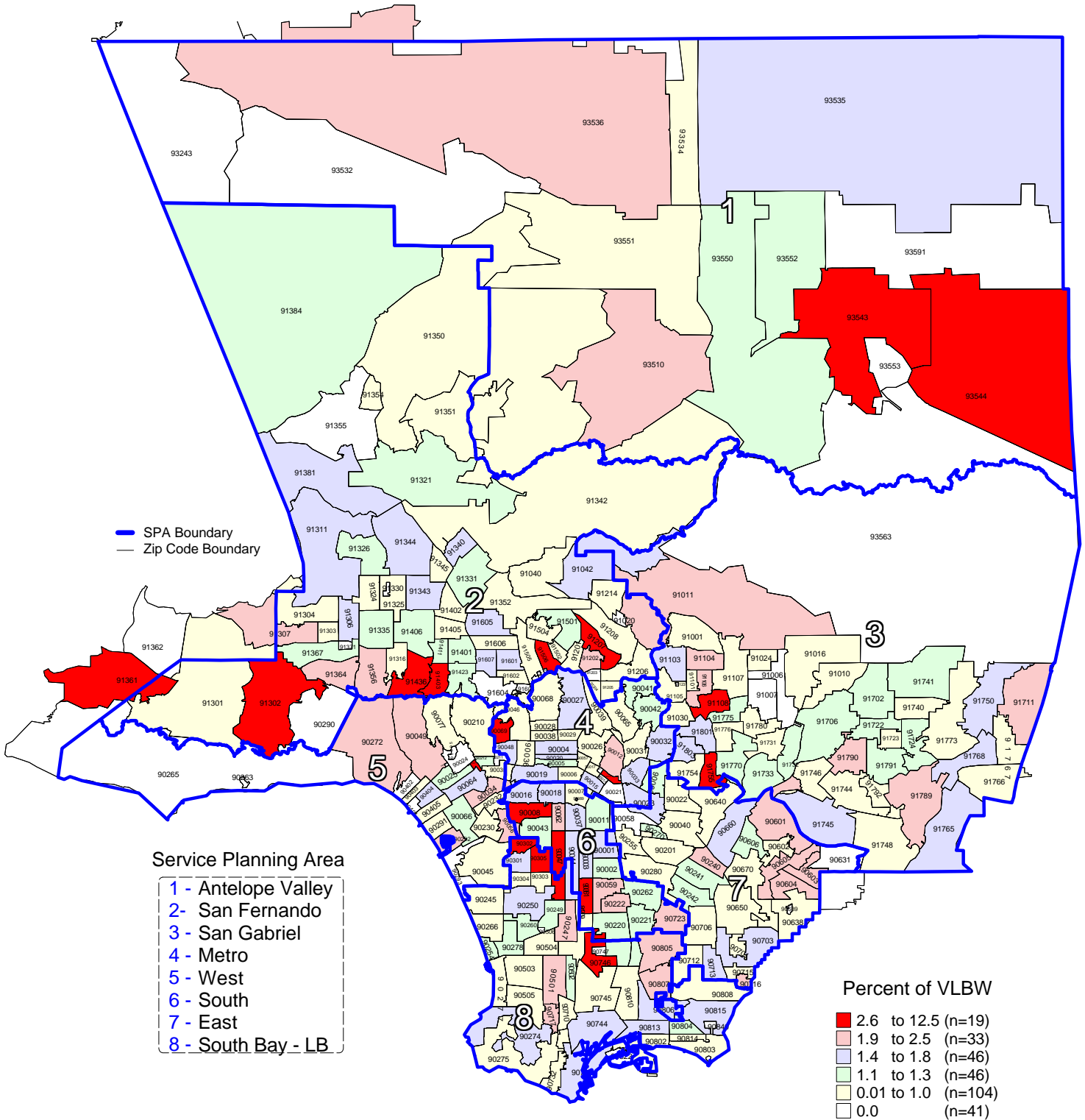
Total number of live births in Los Angeles County, 1999 = 156,153

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