

Infant Mortality

TITLE V INDICATOR TEMPLATE

INDICATOR: Infant Mortality Rate

DEFINITION: The number of infant deaths occurring at less than 365 days of age per 1,000 live births

NUMERATOR: The number of infant deaths occurring at less than 365 days of age, 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 the infant mortality rate to no more than 4.5 per 1,000 live births.
(Baseline: 7.2 per 1,000 live births in 1998) (Objective 16-1c)

HEALTHY PEOPLE 2020 OBJECTIVE:

Reduce the infant mortality rate to no more than 6.0 per 1,000 live births.
(Baseline: 6.7 per 1,000 live births in 2006) (Objective MICH-1.3)

RISK FACTORS:

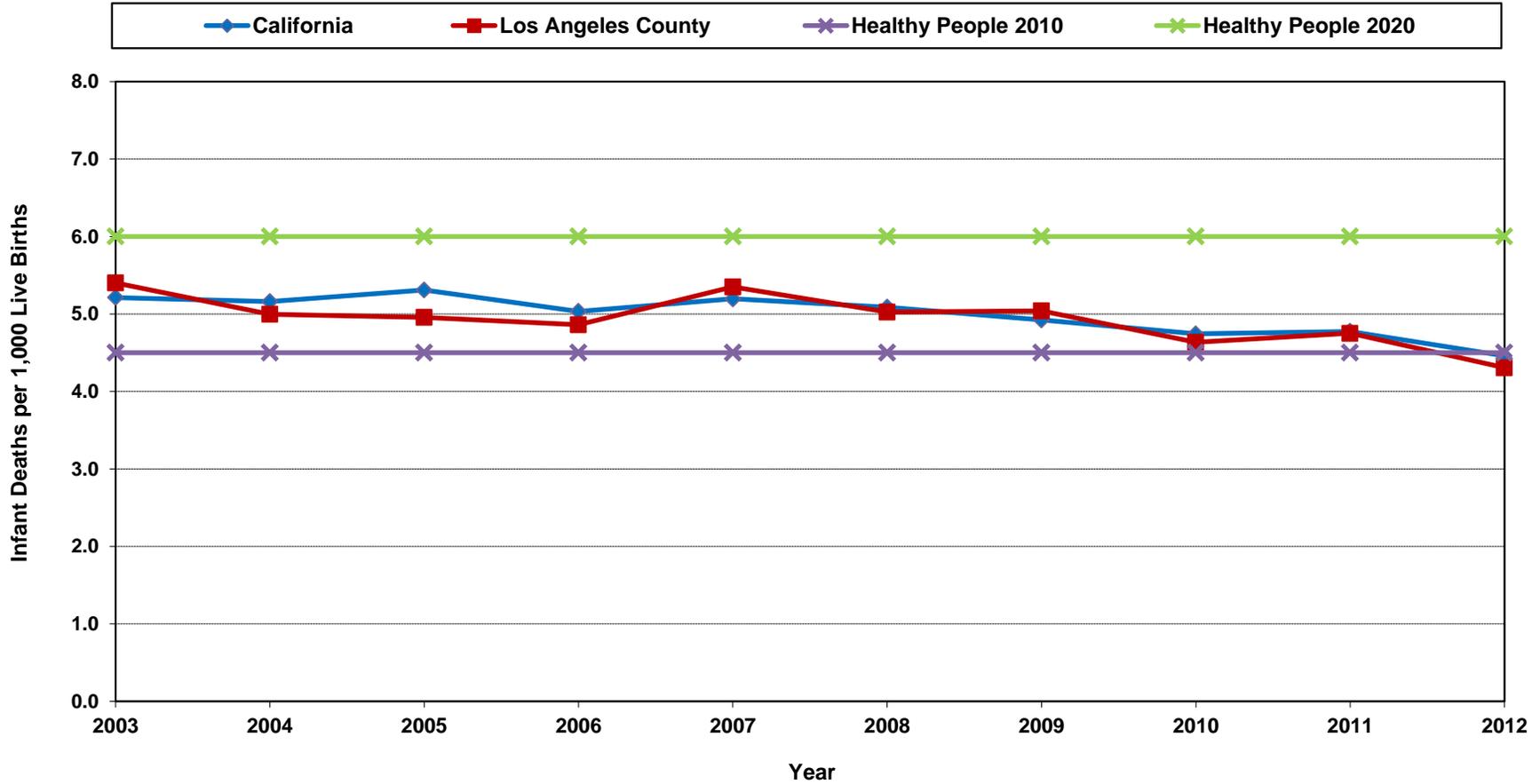
Race/ethnicity; prematurity/disorders related to short gestation; low birth weight; congenital anomalies; young maternal age; low maternal education level; maternal tobacco use; maternal alcohol or substance use/abuse; poor maternal nutrition; inadequate prenatal care; unintended pregnancy; maternal psychosocial problems; maternal medical complications/chronic illness during pregnancy (including diabetes); pregnancy complications; short interpregnancy interval; injury (including domestic violence); infection; respiratory distress syndrome; family history of SIDS

Year	California				Los Angeles County			
	Infant Mortality		95% Confidence Interval		Infant Mortality		95% Confidence Interval	
	Deaths	Rate	Lower	Upper	Deaths	Rate	Lower	Upper
2003	2,819	5.2	5.0	5.4	822	5.4	5.0	5.8
2004	2,811	5.2	5.0	5.4	757	5.0	4.6	5.4
2005	2,913	5.3	5.1	5.5	745	5.0	4.6	5.3
2006	2,829	5.0	4.8	5.2	738	4.9	4.5	5.2
2007	2,941	5.2	5.0	5.4	812	5.3	5.0	5.7
2008	2,806	5.1	4.9	5.3	742	5.0	4.7	5.4
2009	2,593	4.9	4.7	5.1	704	5.0	4.7	5.4
2010	2,419	4.7	4.6	4.9	617	4.6	4.3	5.0
2011	2,397	4.8	4.6	5.0	619	4.8	4.4	5.1
2012	2,247	4.5	4.3	4.6	567	4.3	4.0	4.7

Denominator: Live Births		
Year	California	LA County
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
2010	509,979	133,160
2011	502,023	130,313
2012	503,788	131,697

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2003-2012

Infant Deaths per 1,000 Live Births California vs. Los Angeles County, 2003-2012

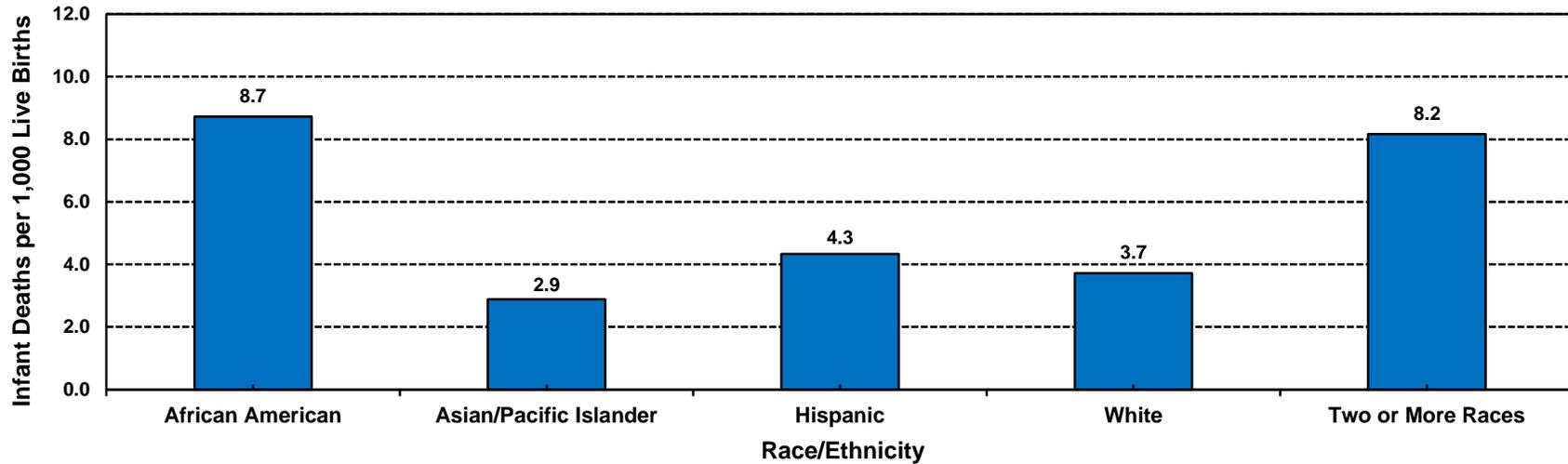


Year 2010 Objective: Reduce the infant mortality rate to no more than 4.5 per 1,000 live births.

Year 2020 Objective: Reduce the infant mortality rate to no more than 6.0 per 1,000 live births.

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2003-2012

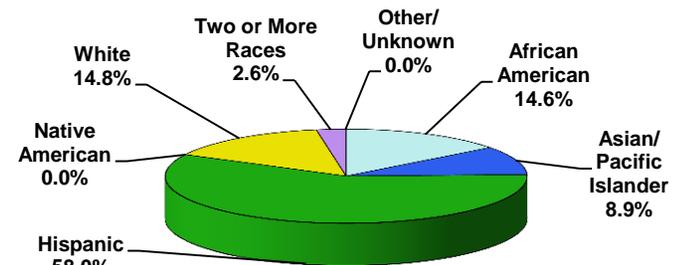
**Infant Mortality Rate by Race/Ethnicity
Los Angeles County, 2012**



Los Angeles County, 2012				
Race/Ethnicity	Infant Mortality		95% Confidence Interval	
	Deaths	Rate	Lower	Upper
African American	83	8.7	6.9	10.6
Asian/Pacific Islander	56	2.9	2.1	3.6
Hispanic	329	4.3	3.9	4.8
Native American	<5	N/C	N/C	N/C
White	84	3.7	2.9	4.5
Two or More Races	15	8.2	4.1	12.3
Other/Unknown	<5	N/C	N/C	N/C
Total	567	4.3	4.0	4.7

Total Live Births
9,514
19,389
75,899
117
22,623
1,837
2,318
131,697

**Percent Distribution of Infant Deaths
by Race/Ethnicity
Los Angeles County, 2012**



Year 2010 Objective: Reduce the infant mortality rate to no more than 4.5 per 1,000 live births.

Year 2020 Objective: Reduce the infant mortality rate to no more than 6.0 per 1,000 live births.

Note: Infant mortality rate is defined as infant deaths occurring less than 365 days per 1,000 live births.

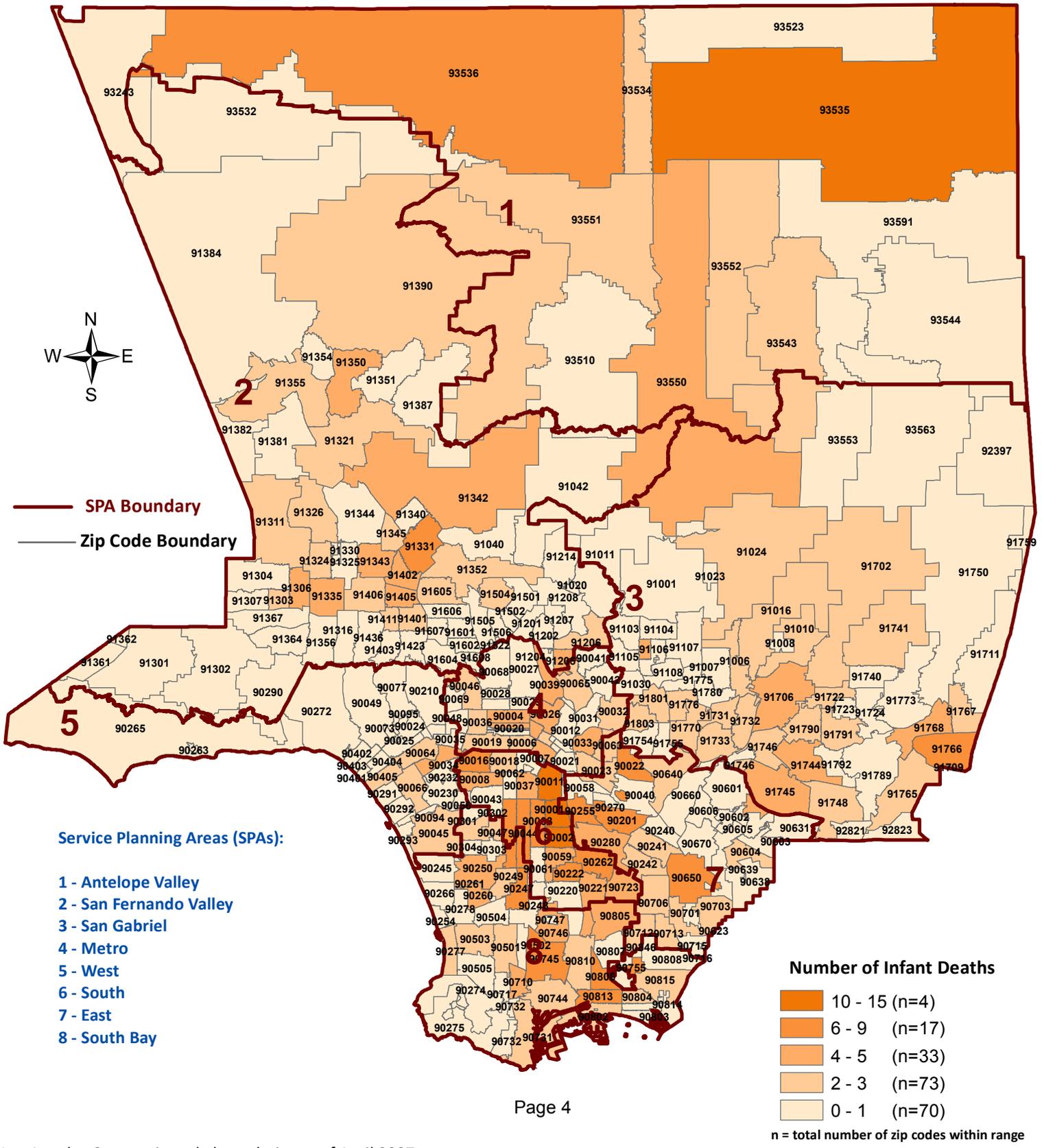
Racial/ethnic categorization has been revised in this report; data from previous year reports may not be comparable.

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, 2012

**Los Angeles County - Department of Public Health
 Number of Infant Deaths by Zip Code* and Service Planning Area (SPA)
 Los Angeles County, 2012**



*Los Angeles County zip code boundaries as of April 2007

Total number of live births in Los Angeles County, 2012 = 131,697

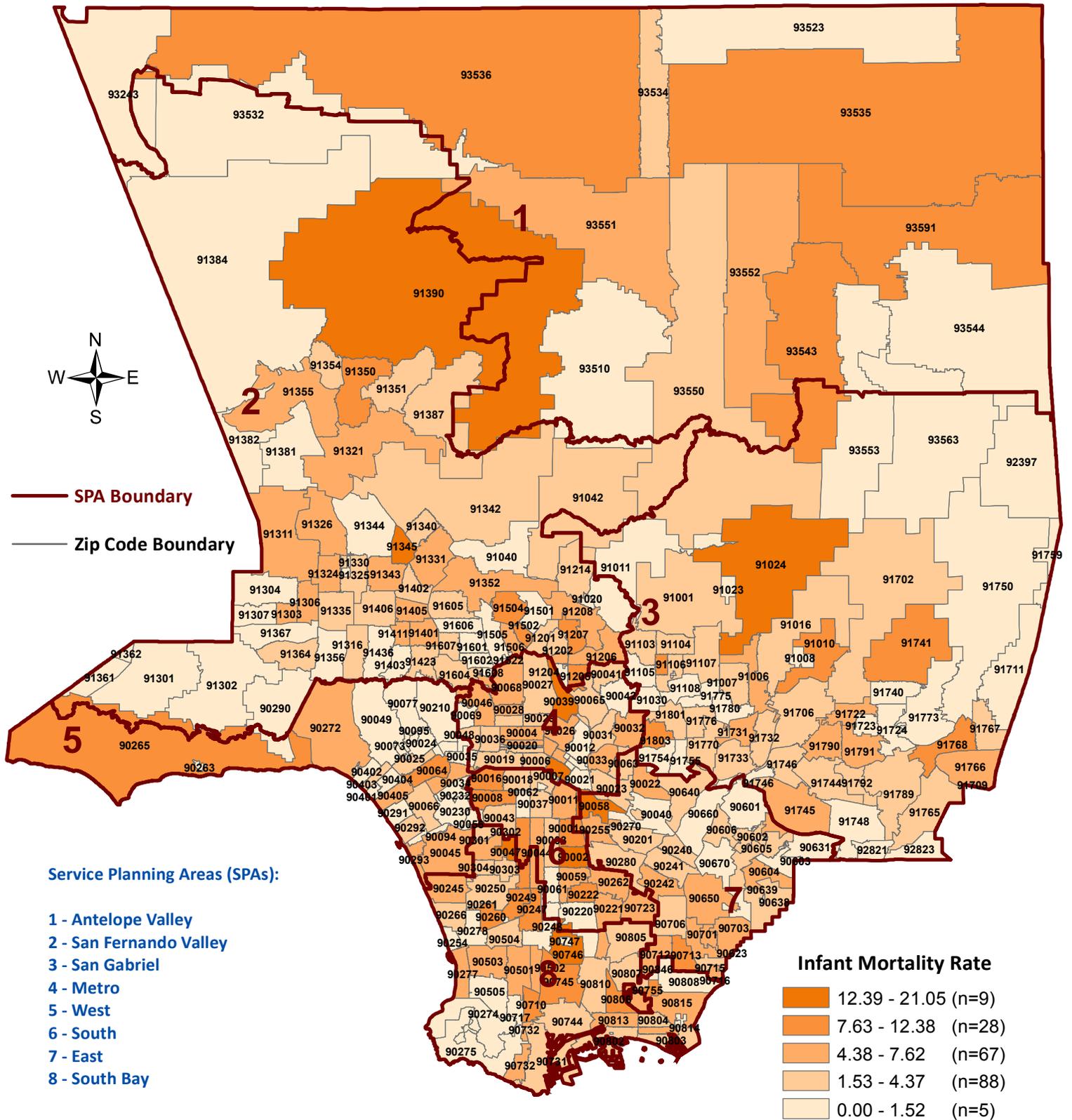
Total number of infant deaths in Los Angeles County, 2012 = 567

Note: Infant death is defined as deaths occurring less than 365 days of age.

Zip code 90704 (Catalina Island) is not included. Total number of infant deaths in 90704, 2012 = 0

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2012.

**Los Angeles County - Department of Public Health
 Infant Mortality Rate by Zip Code* and Service Planning Area (SPA)
 Los Angeles County, 2012**



*Los Angeles County zip code boundaries as of April 2007

Total number of live births in Los Angeles County, 2012 = 131,697

Infant mortality rate per 1,000 live births in Los Angeles County, 2012 = 4.3

Year 2010 Objective: Reduce the infant mortality rate to no more than 4.5 per 1,000 live births.

Year 2020 Objective: Reduce the infant mortality rate to no more than 6.0 per 1,000 live births.

Note: Infant mortality rate is defined as infant deaths occurring less than 365 days per 1,000 live births.

Zip code 90704 (Catalina Island) is not included. Infant mortality rate in 90704, 2012 = 0.0

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2012.

TITLE V INDICATOR TEMPLATE

INDICATOR: Neonatal Mortality Rate

DEFINITION: The number of infant deaths occurring at less than 28 days of age per 1,000 live births

NUMERATOR: The number of infant deaths occurring at less than 28 days of age, 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 the neonatal mortality rate to no more than 2.9 per 1,000 live births.
(Baseline: 4.8 per 1,000 live births in 1998) (Objective 16-1d)

HEALTHY PEOPLE 2020 OBJECTIVE:

Reduce the neonatal mortality rate to no more than 4.1 per 1,000 live births.
(Baseline: 4.5 per 1,000 live births in 2006) (Objective MICH-1.4)

RISK FACTORS:

Congenital anomalies; respiratory distress syndrome; short gestation; low birth weight; maternal complications; race/ethnicity (African American, Puerto Rican)

See also risk factors for infant mortality.

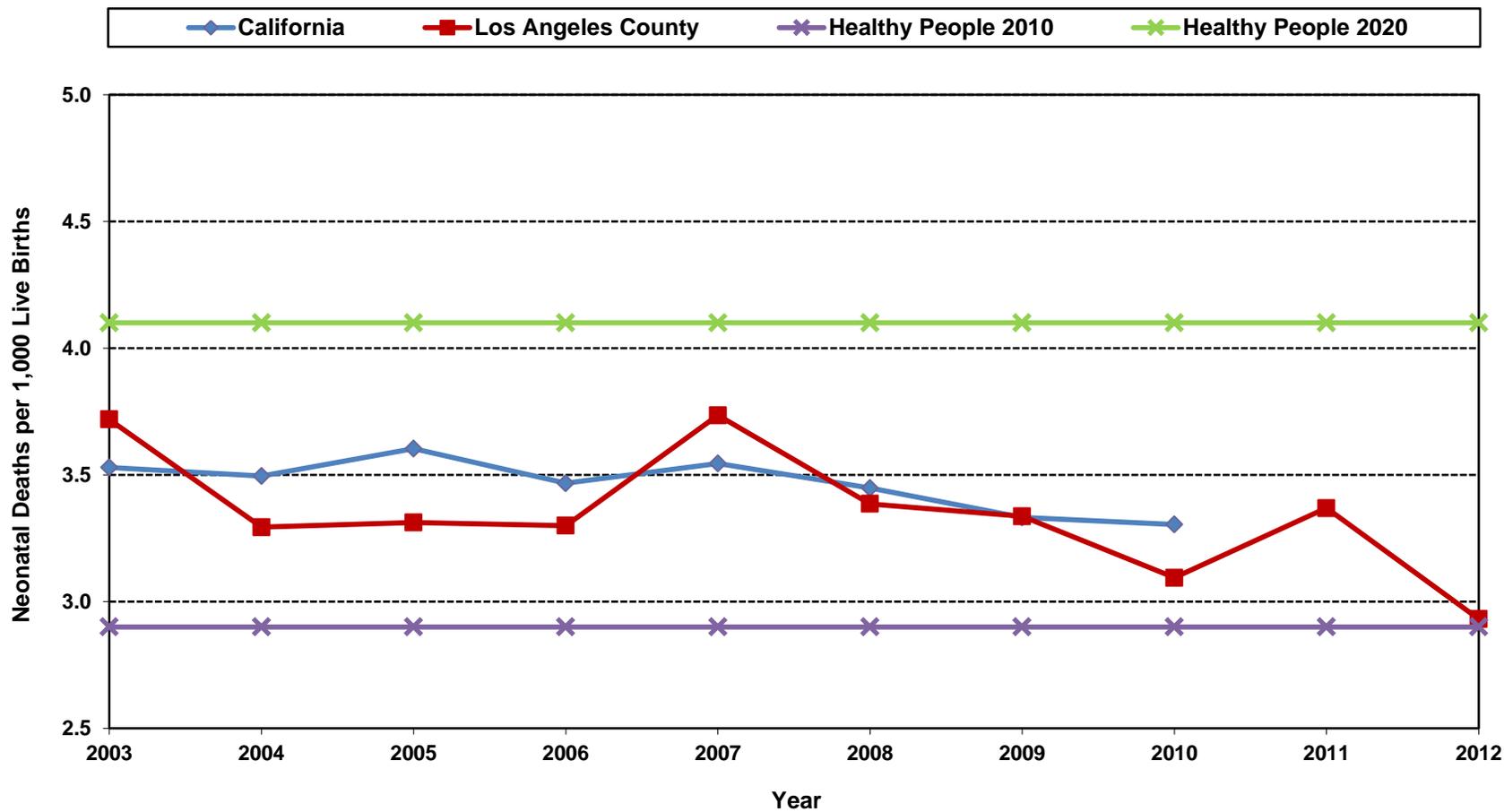
Year	California				Los Angeles County			
	Neonatal Mortality		95% Confidence Interval		Neonatal Mortality		95% Confidence Interval	
	Deaths	Rate	Lower	Upper	Deaths	Rate	Lower	Upper
2003	1,909	3.5	3.4	3.7	566	3.7	3.4	4.0
2004	1,904	3.5	3.3	3.7	499	3.3	3.0	3.6
2005	1,977	3.6	3.4	3.8	498	3.3	3.0	3.6
2006	1,949	3.5	3.3	3.6	501	3.3	3.0	3.6
2007	2,007	3.5	3.4	3.7	567	3.7	3.4	4.0
2008	1,902	3.4	3.3	3.6	500	3.4	3.1	3.7
2009	1,755	3.3	3.2	3.5	466	3.3	3.0	3.6
2010	1,685	3.3	3.1	3.5	412	3.1	2.8	3.4
2011	N/A	N/C	N/C	N/C	439	3.4	3.1	3.7
2012	N/A	N/C	N/C	N/C	386	2.9	2.6	3.2

Year	Denominator: Live Births	
	California	LA County
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
2010	509,979	133,160
2011	502,023	130,313
2012	503,788	131,697

Note: California data for 2011 and 2012 not available (N/A) for retrieval. Rates are not calculated (N/C).

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2003-2012

Neonatal Deaths per 1,000 Live Births California vs. Los Angeles County, 2003-2012

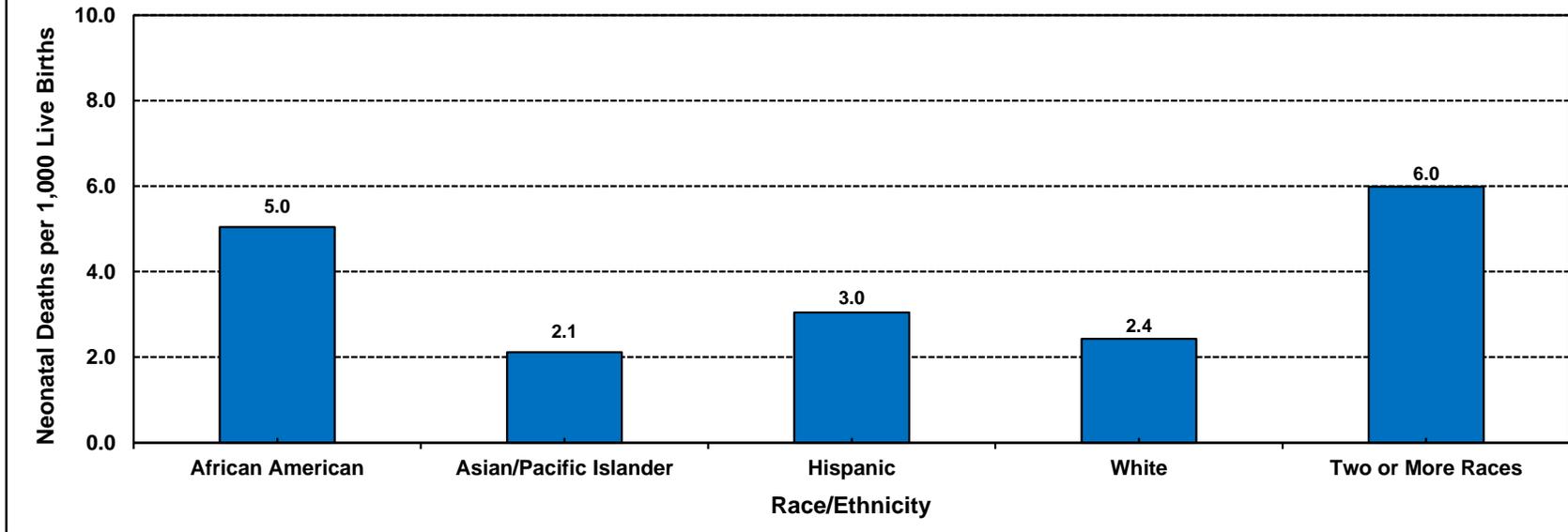


Year 2010 Objective: Reduce the neonatal mortality rate to no more than 2.9 per 1,000 live births.

Year 2020 Objective: Reduce neonatal deaths to no more than 4.1 per 1,000 live births.

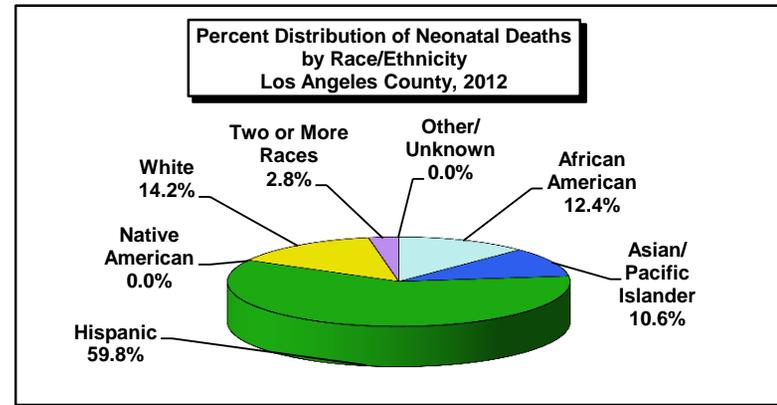
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2003-2012

Neonatal Mortality Rate by Race/Ethnicity Los Angeles County, 2012



Los Angeles County, 2012				
Race/Ethnicity	Neonatal Mortality		95% Confidence Interval	
	Deaths	Rate	Lower	Upper
African American	48	5.0	3.6	6.5
Asian/Pacific Islander	41	2.1	1.5	2.8
Hispanic	231	3.0	2.7	3.4
Native American	<5	N/C	N/C	N/C
White	55	2.4	1.8	3.1
Two or More Races	11	6.0	2.5	9.5
Other/Unknown	<5	N/C	N/C	N/C
Total	386	2.9	2.6	3.2

Total Live Births
9,514
19,389
75,899
117
22,623
1,837
2,318
131,697



Year 2010 Objective: Reduce the neonatal mortality rate to no more than 2.9 per 1,000 live births.

Year 2020 Objective: Reduce neonatal deaths to no more than 4.1 per 1,000 live births.

Note: Neonatal mortality rate is defined as infant deaths occurring less than 28 days per 1,000 live births.

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

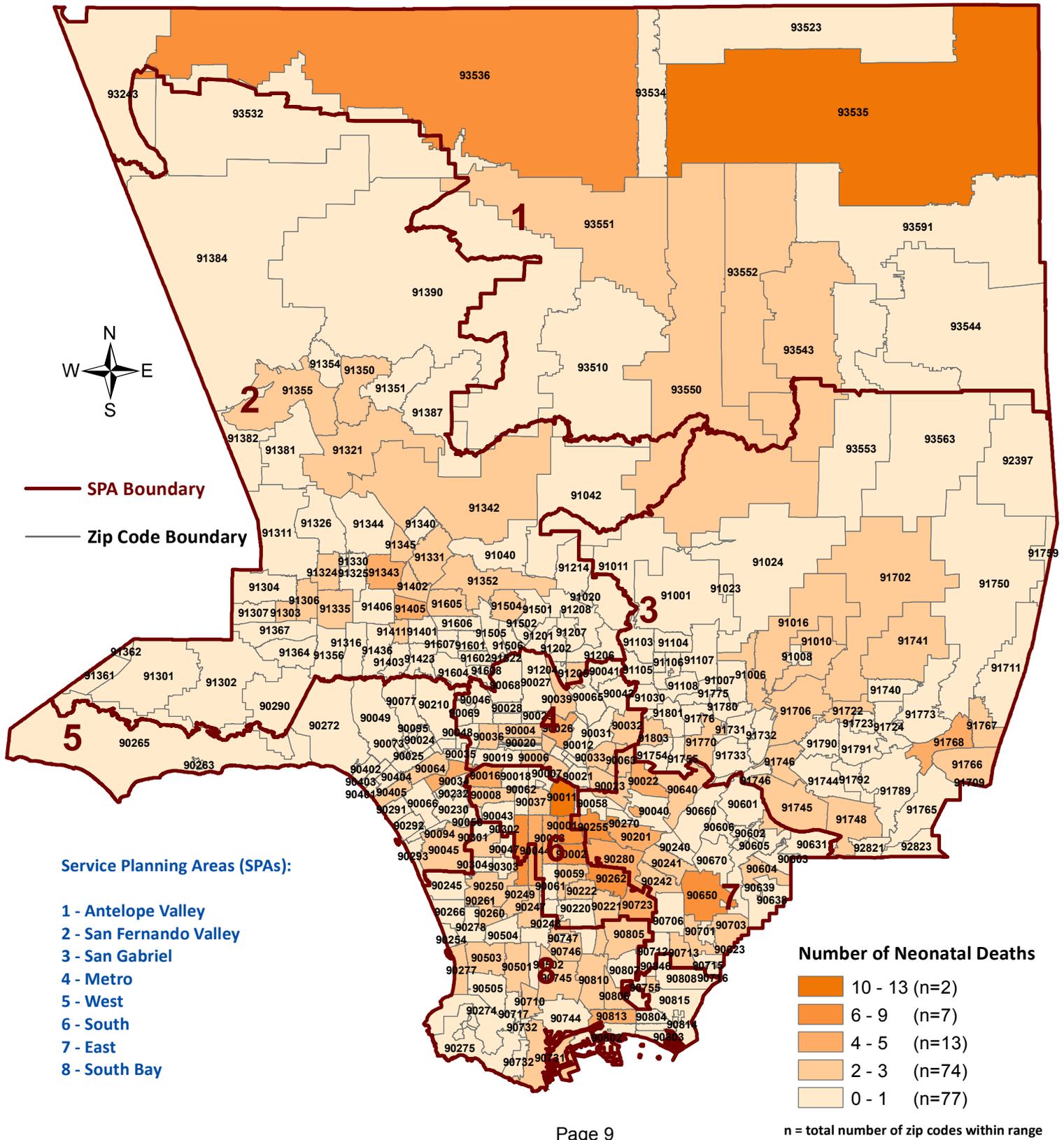
African American, Asian/Pacific Islander, Native American, White and other races exclude Hispanic ethnicity. Hispanic includes any race category.

Infant deaths missing date of birth are excluded from this analysis (missing = 1).

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, 2012

**Los Angeles County - Department of Public Health
 Number of Neonatal Deaths by Zip Code* and Service Planning Area (SPA)
 Los Angeles County, 2012**



*Los Angeles County zip code boundaries as of April 2007

Total number of live births in Los Angeles County, 2012 = 131,697

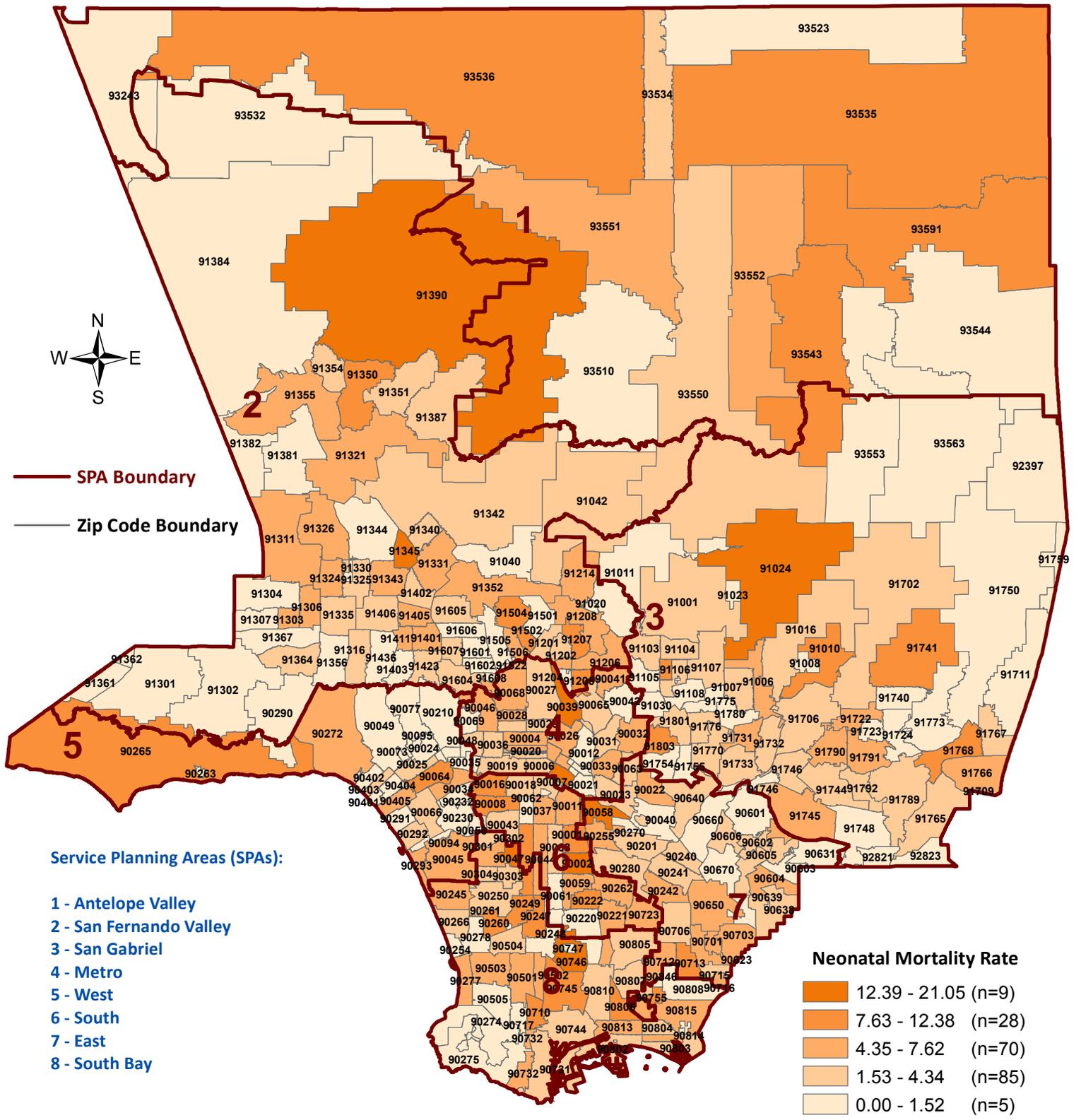
Total number of neonatal deaths in Los Angeles County, 2012 = 386

Note: Neonatal death is defined as deaths occurring less than 28 days of age.

Zip code 90704 (Catalina Island) is not included. Total number of neonatal deaths in 90704, 2012 = 0

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2012.

**Los Angeles County - Department of Public Health
Neonatal Mortality Rate by Zip Code* and Service Planning Area (SPA)
Los Angeles County, 2012**



*Los Angeles County zip code boundaries as of April 2007

n = total number of zip codes within range

Total number of live births in Los Angeles County, 2012 = 131,697

Neonatal mortality rate per 1,000 live births in Los Angeles County, 2012 = 2.9

Year 2010 Objective: Reduce the neonatal mortality rate to no more than 2.9 per 1,000 live births.

Year 2020 Objective: Reduce the neonatal mortality rate to no more than 4.1 per 1,000 live births.

Note: Neonatal mortality rate is defined as infant deaths occurring less than 28 days per 1,000 live births.

Zip code 90704 (Catalina Island) is not included. Neonatal mortality rate in 90704, 2012 = 0.00

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2012.

TITLE V INDICATOR TEMPLATE

INDICATOR: Post-Neonatal Mortality Rate

DEFINITION: The number of infant deaths occurring from 28 through 364 days of age per 1,000 live births

NUMERATOR: The number of infant deaths occurring from 28 through 364 days of age, 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 the post-neonatal mortality rate to no more than 1.2 per 1,000 live births.
(Baseline: 2.4 per 1,000 live births in 1998) (Objective 16-1e)

HEALTHY PEOPLE 2020 OBJECTIVE:

Reduce the post-neonatal mortality rate to no more than 2.0 per 1,000 live births.
(Baseline: 2.2 per 1,000 live births in 2006) (Objective MICH-1.5)

RISK FACTORS:

Congenital anomalies; injuries; infection in late pregnancy; family history of SIDS; maternal smoking or drug use; young maternal age (teen births); race/ethnicity (African American, Puerto Rican)

See also risk factors for infant mortality.

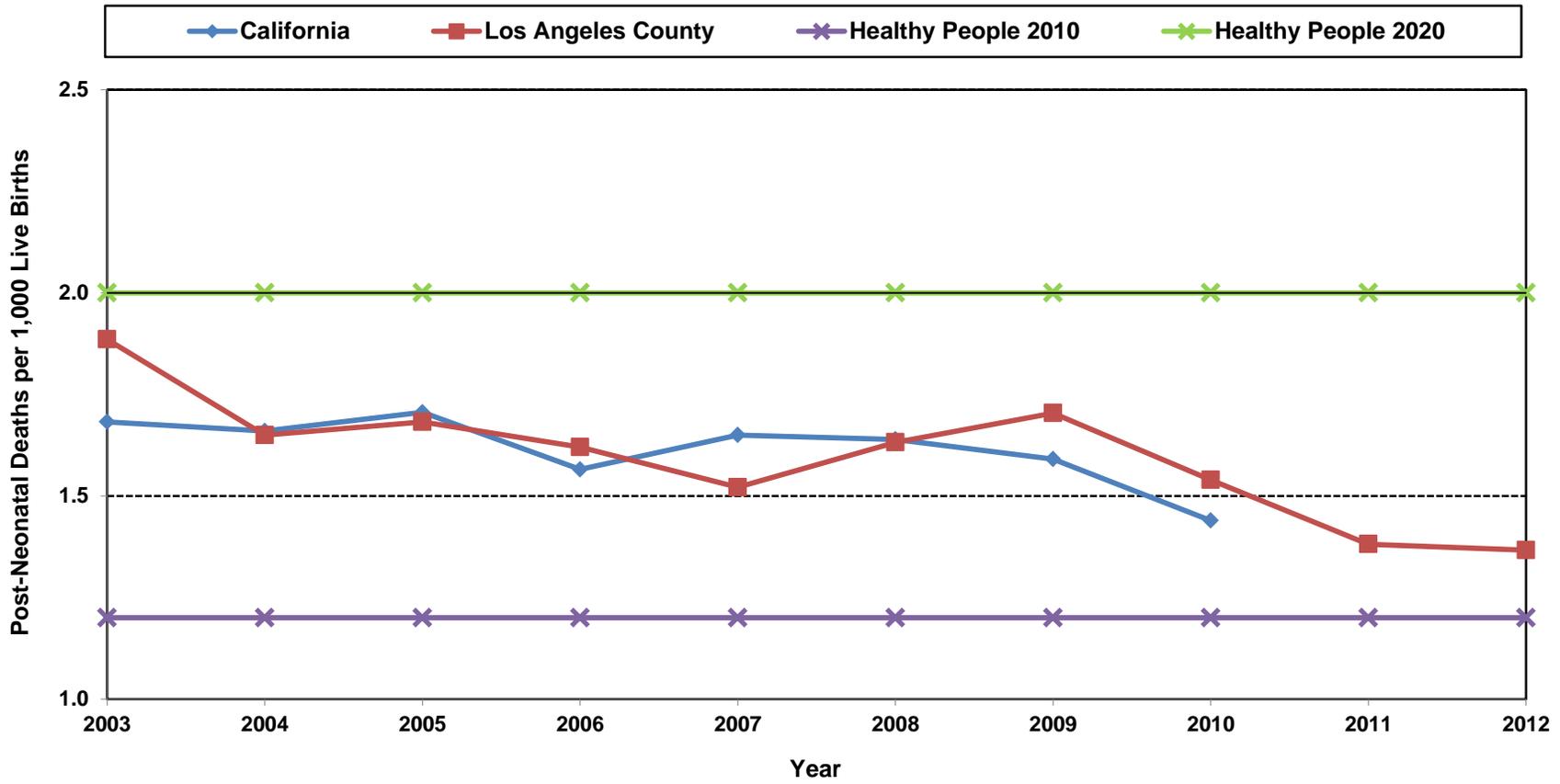
Year	California				Los Angeles County			
	Post-Neonatal Mortality		95% Confidence Interval		Post-Neonatal Mortality		95% Confidence Interval	
	Deaths	Rate	Lower	Upper	Deaths	Rate	Lower	Upper
2003	910	1.7	1.6	1.8	287	1.9	1.7	2.1
2004	904	1.7	1.6	1.8	250	1.7	1.4	1.9
2005	936	1.7	1.6	1.8	253	1.7	1.5	1.9
2006	880	1.6	1.5	1.7	246	1.6	1.4	1.8
2007	934	1.6	1.5	1.8	231	1.5	1.3	1.7
2008	904	1.6	1.5	1.7	241	1.6	1.4	1.8
2009	838	1.6	1.5	1.7	238	1.7	1.5	1.9
2010	734	1.4	1.3	1.5	205	1.5	1.3	1.8
2011	N/A	N/C	N/C	N/C	180	1.4	1.2	1.6
2012	N/A	N/C	N/C	N/C	180	1.4	1.2	1.6

Year	Denominator: Live Births	
	California	LA County
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
2010	509,979	133,160
2011	502,023	130,313
2012	503,788	131,697

Note: California data for 2011 and 2012 not available (N/A) for retrieval. Rates are not calculated (N/C).

Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2003-2012

**Post-Neonatal Deaths per 1,000 Live Births
California vs. Los Angeles County, 2003-2012**

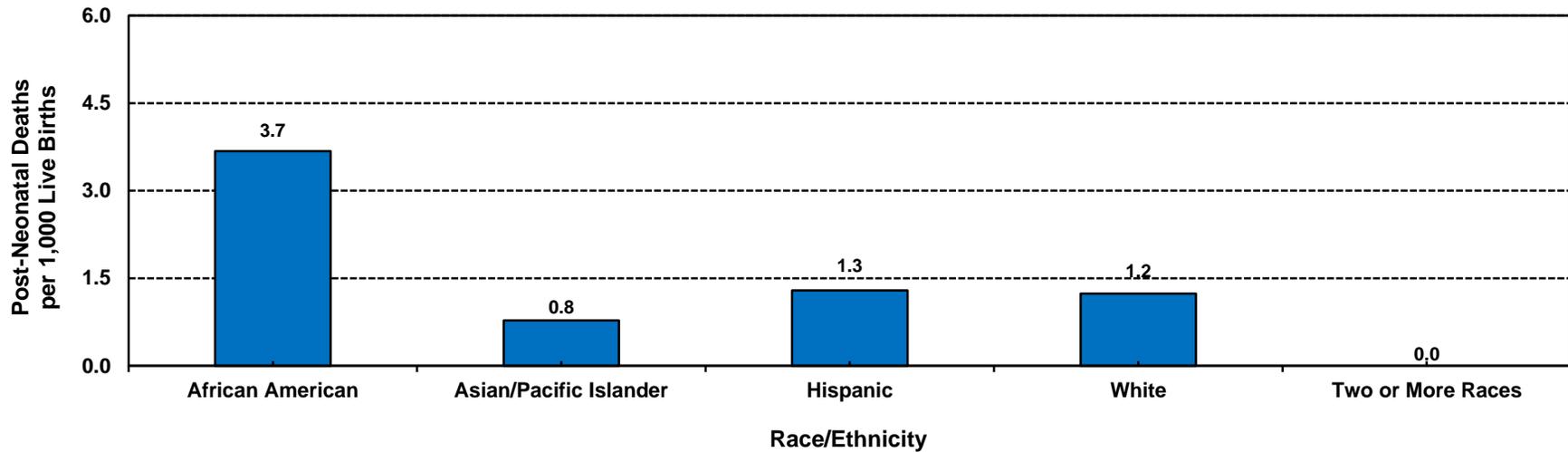


Year 2010 Objective: Reduce the post-neonatal mortality rate to no more than 1.2 per 1,000 live births.

Year 2020 Objective: Reduce the post-neonatal deaths to no more than 2.0 per 1,000 live births.

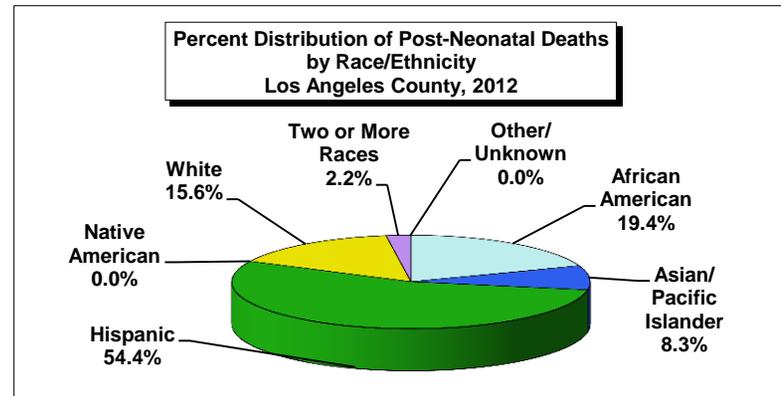
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2012

Post-Neonatal Mortality Rate by Race/Ethnicity Los Angeles County, 2012



Los Angeles County, 2012				
Race/Ethnicity	Post-Neonatal Mortality		95% Confidence Interval	
	Deaths	Rate	Lower	Upper
African American	35	3.7	2.5	4.9
Asian/Pacific Islander	15	0.8	0.4	1.2
Hispanic	98	1.3	1.0	1.5
Native American	<5	N/C	N/C	N/C
White	28	1.2	0.8	1.7
Two or More Races	<5	N/C	N/C	N/C
Other/Unknown	<5	N/C	N/C	N/C
Total	180	1.4	1.2	1.6

Total Live Births
9,514
19,389
75,899
117
22,623
1,837
2,318
131,697



Year 2010 Objective: Reduce the post-neonatal mortality rate to no more than 1.2 per 1,000 live births.

Year 2020 Objective: Reduce the post-neonatal deaths to no more than 2.0 per 1,000 live births.

Note: Post-neonatal mortality rate is defined as infant deaths occurring from 28 through 364 days of age per 1,000 live births.

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

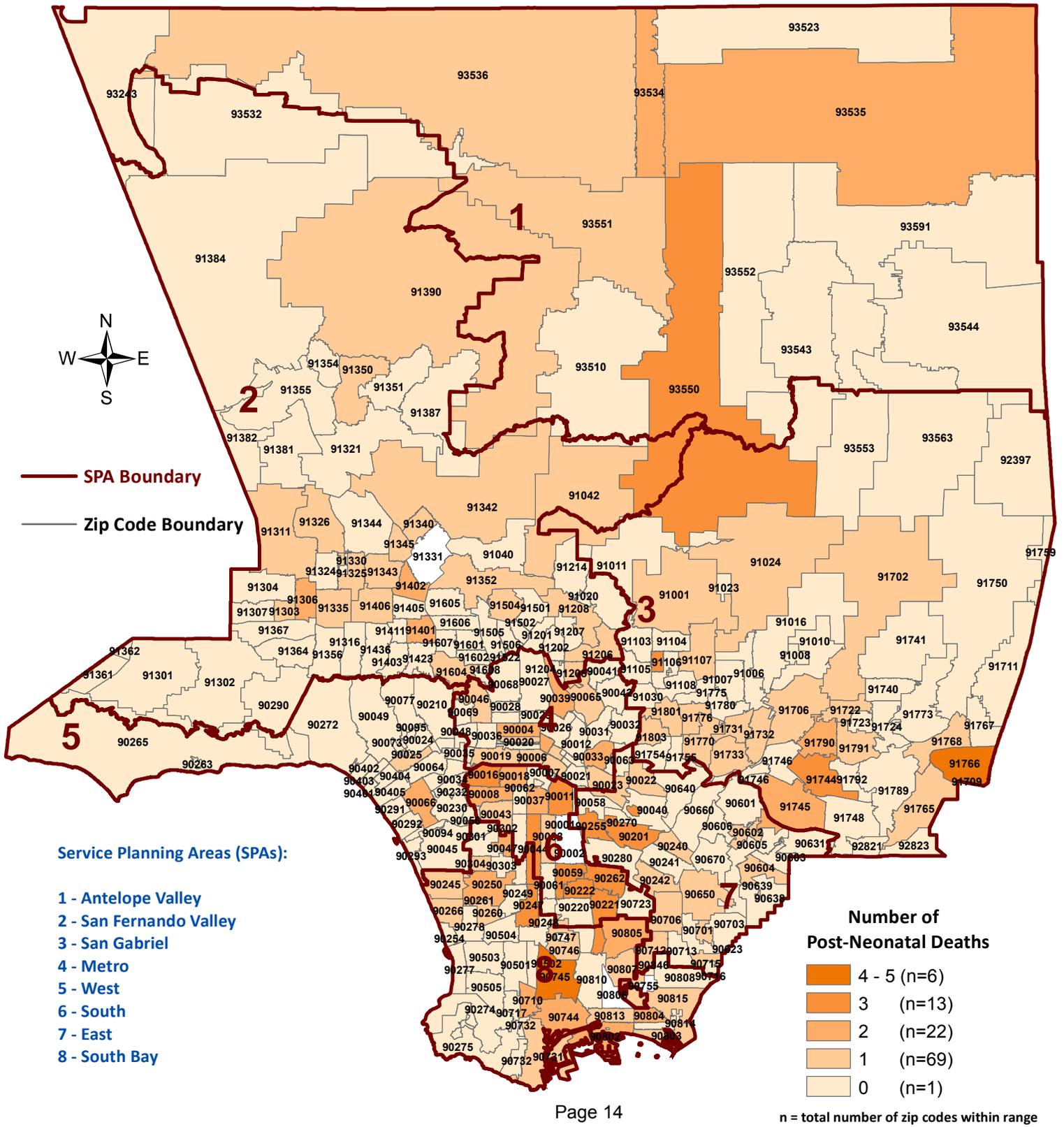
African American, Asian/Pacific Islander, Native American, White and other races exclude Hispanic ethnicity. Hispanic includes any race category.

Infant deaths missing date of birth are excluded from this analysis (missing = 1).

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

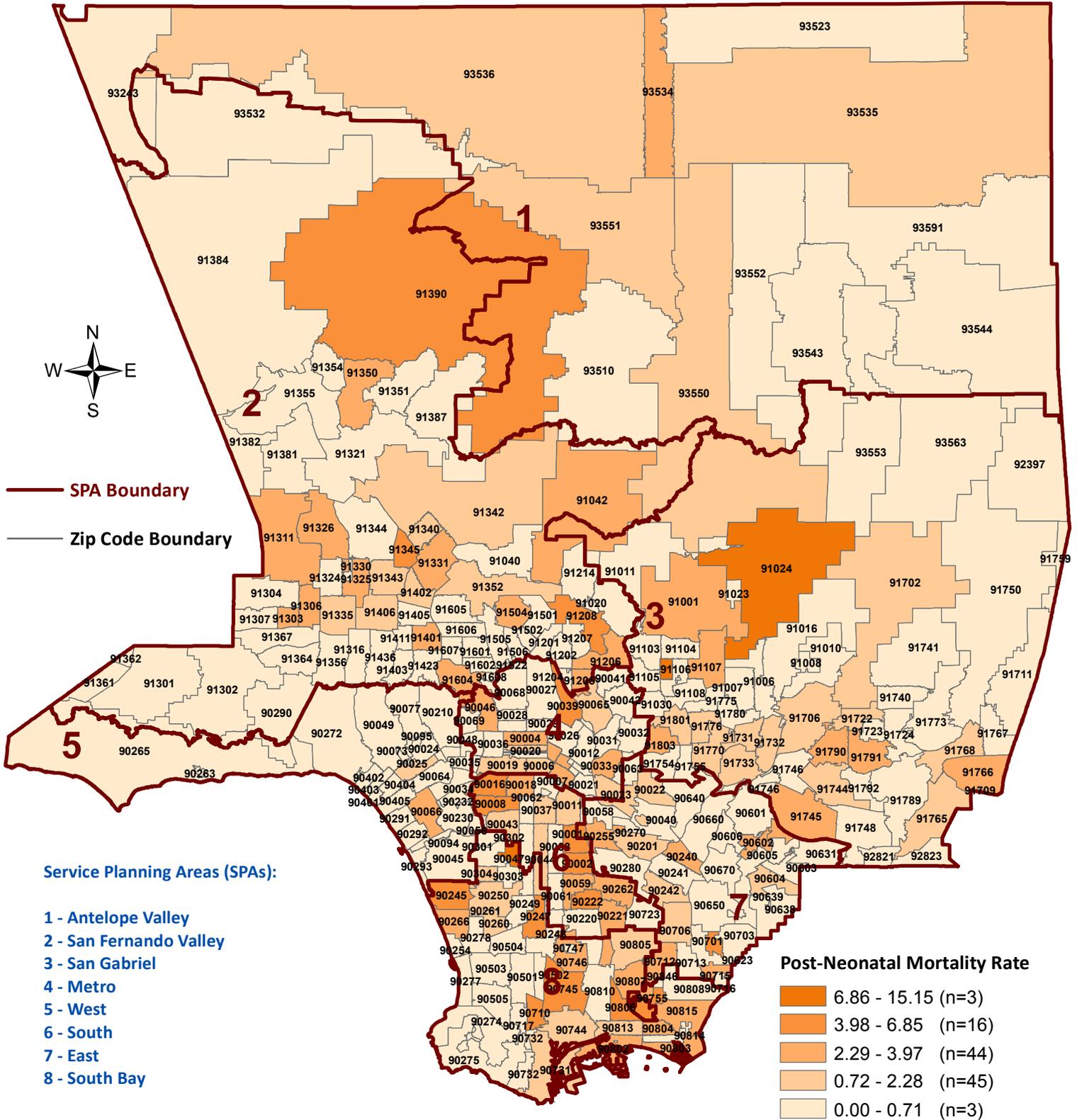
Source: California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2012

**Los Angeles County - Department of Public Health
 Number of Post-Neonatal Deaths by Zip Code* and Service Planning Area (SPA)
 Los Angeles County, 2012**



*Los Angeles County zip code boundaries as of April 2007
 Total number of live births in Los Angeles County, 2012 = 131,697
 Total number of post-neonatal deaths in Los Angeles County, 2012 = 180
 Note: Post-neonatal death is defined as deaths occurring from 28 through 364 days of age.
 Zip code 90704 (Catalina Island) is not included. Total number of post-neonatal deaths in 90704, 2012 = 0
 Source : California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2012.

**Los Angeles County - Department of Public Health
Post-Neonatal Mortality Rate by Zip Code* and Service Planning Area (SPA)
Los Angeles County, 2012**



*Los Angeles County zip code boundaries as of April 2007

Total number of live births in Los Angeles County, 2012= 131,697

Post-neonatal mortality rate per 1,000 live births in Los Angeles County, 2012 = 1.4

Year 2010 Objective: Reduce the post-neonatal mortality rate to no more than 1.2 per 1,000 live births.

Year 2020 Objective: Reduce the post-neonatal mortality rate to no more than 2.0 per 1,000 live births.

Note: Post-neonatal mortality rate is defined as infant deaths occurring from 28 through 364 days of age per 1,000 live births.

Zip code 90704 (Catalina Island) is not included. Post-neonatal mortality rate in 90704, 2012 = 0.00

Source : California Department of Public Health, Center for Health Statistics, OHIR Vital Statistics Section, 2012.