

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 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)

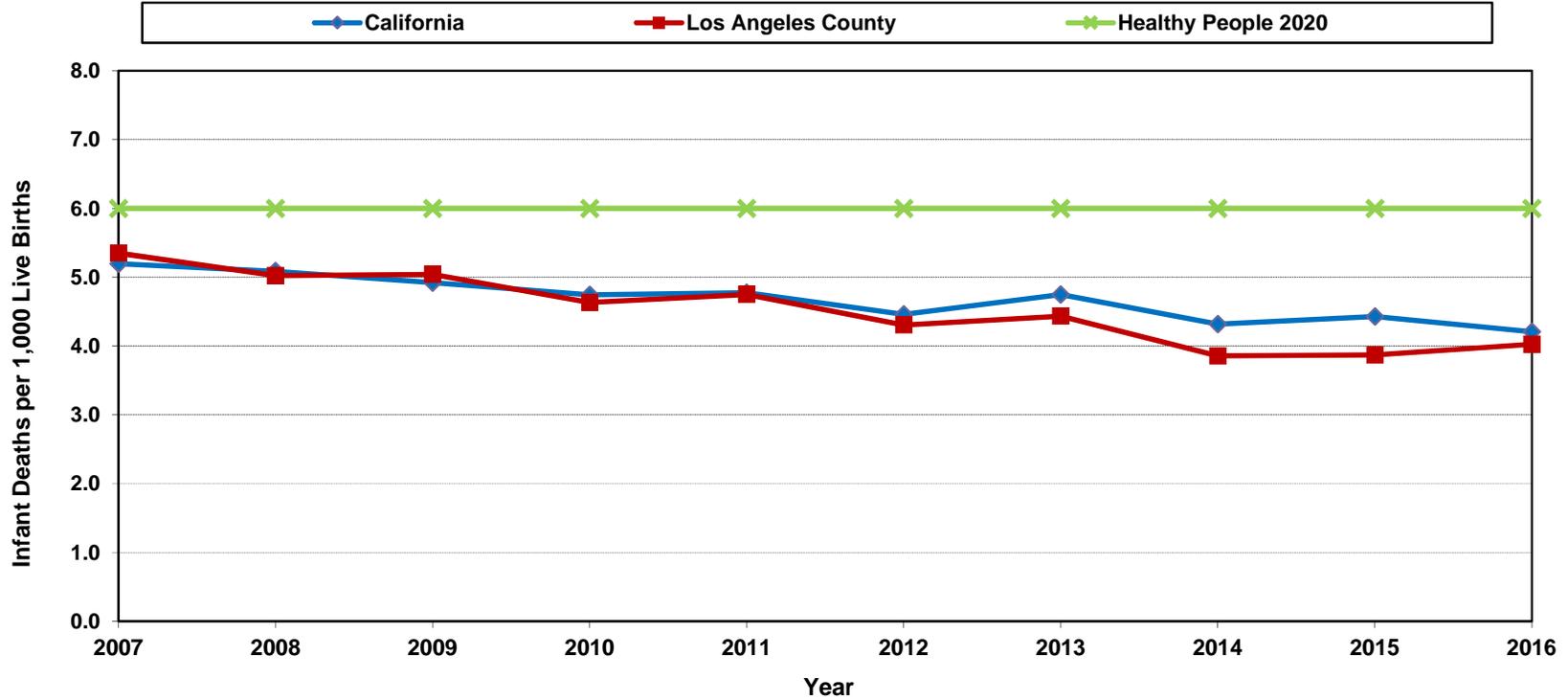
RISK FACTORS: Race/ethnicity; prematurity/disorders related to short gestation; low birth weight; congenital anomalies; young maternal age; low maternal education level; maternal tobacco use; maternal alcohol or substance use/abuse; poor maternal nutrition; inadequate prenatal care; unintended pregnancy; 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
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
2013	2,348	4.7	4.6	4.9	570	4.4	4.1	4.8
2014	2,173	4.3	4.1	4.5	502	3.9	3.5	4.2
2015	2,178	4.4	4.2	4.6	482	3.9	3.5	4.2
2016	2,057	4.2	4.0	4.4	495	4.0	3.7	4.4

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

Data Source: California Department of Public Health, Birth and Death Statistical Master Files, 2007-2016.

Infant Mortality Rate California vs. Los Angeles County, 2007-2016

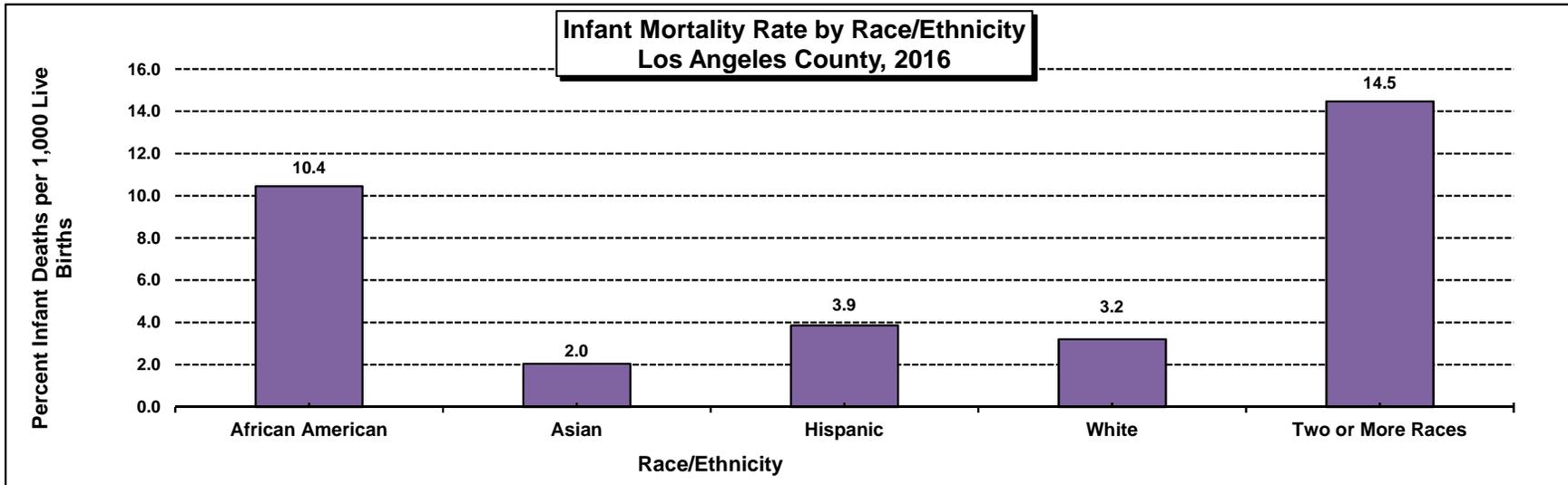


Year 2020 Objective: Reduce the infant mortality rate to no more than 6.0 per 1,000 live births.

Note: "Infant Mortality" rate is defined as the number of infant deaths occurring at less than 365 days of age per 1,000 live births

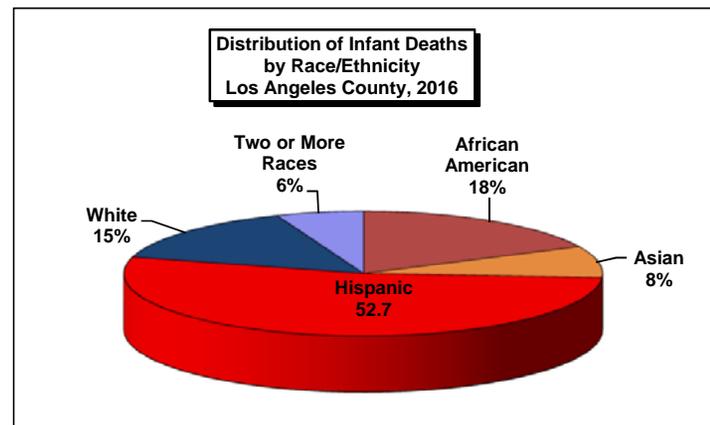
Source: California Department of Public Health, Birth and Death Statistical Master Files, 2007-2016.

Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics, Natality public-use data 2007-2016 (for state data).



Los Angeles County 2016				
Race/Ethnicity	Infant Mortality		95% Confidence Interval	
	Deaths	Rate	Lower	Upper
African American	88	10.4	8.3	12.6
Asian	40	2.0	1.4	2.7
Pacific Islander	<5	N/C	N/C	N/C
Hispanic	261	3.9	3.4	4.3
Native American	<5	N/C	N/C	N/C
White	73	3.2	2.5	3.9
Two or More Races	29	14.5	9.2	19.7
Other/Unknown	<5	N/C	N/C	N/C
Total	495	4.0	3.7	4.4

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



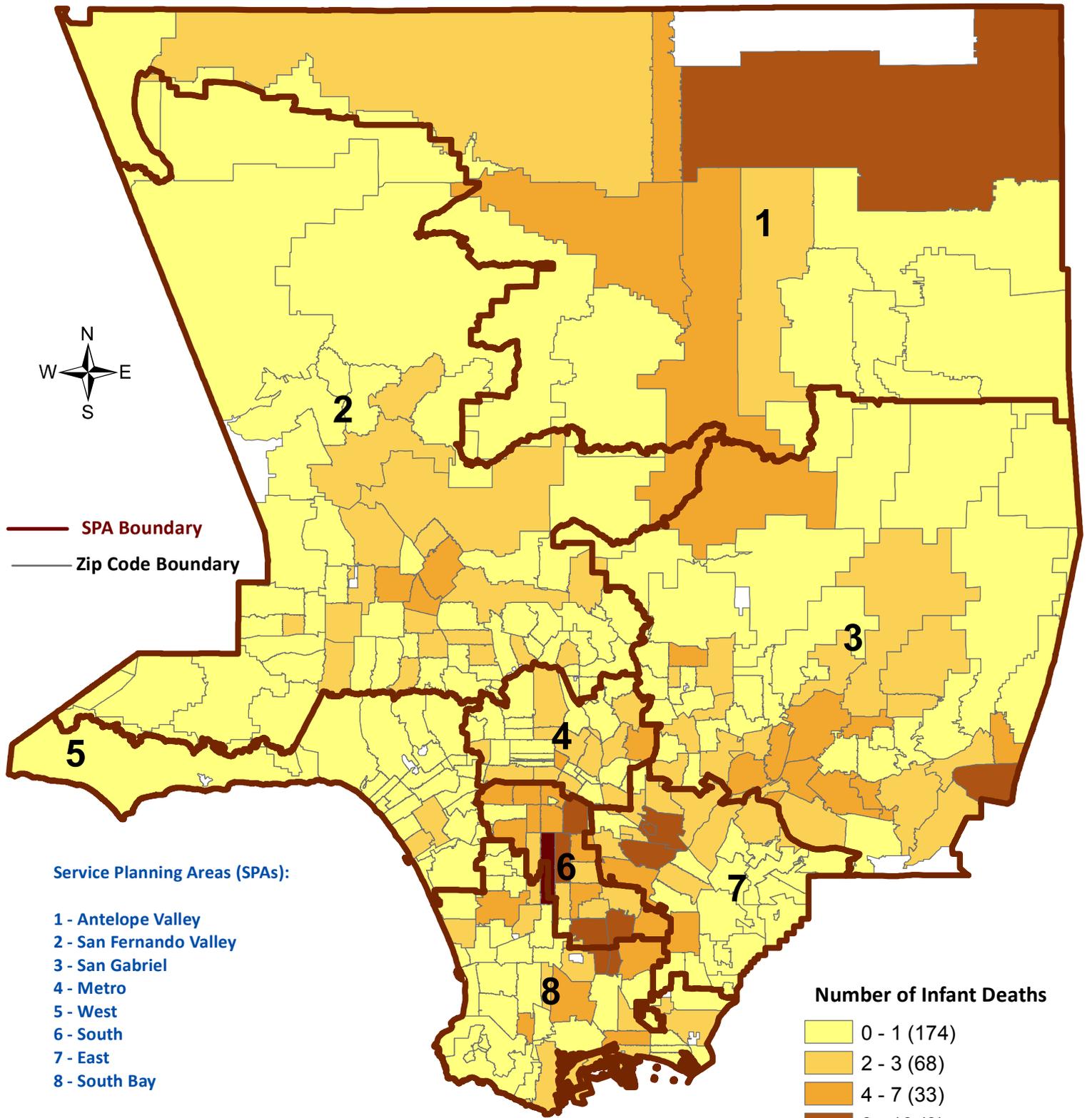
Source: California Department of Public Health, Birth and Death Statistical Master Files, 2016.

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

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

"Infant Mortality" rate is defined as infant deaths occurring less than 365 days per 1,000 live births.

**Los Angeles County - Department of Public Health
 Number of Infant Deaths 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

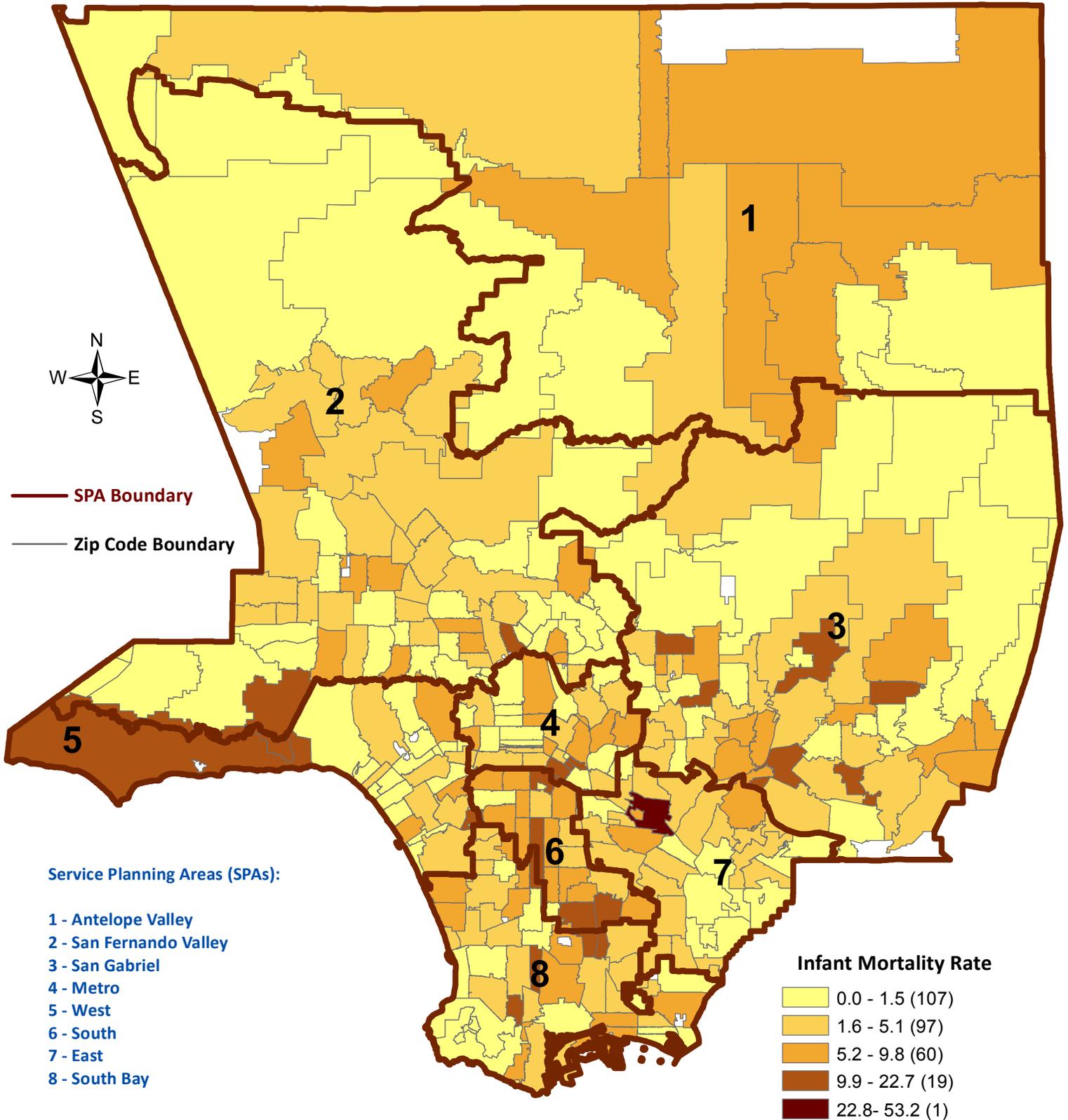
Total number of infant deaths in Los Angeles County, 2016 = 495

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

Zip code 90704 (Catalina Island) is not included. Total number of infant deaths in 90704, 2016 = < 5

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

**Los Angeles County - Department of Public Health
 Infant Mortality Rate 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
 Infant mortality rate per 1,000 live births in Los Angeles County, 2016 = 4.0
 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, 2016 = < 5
 Source: California Department of Public Health, Birth and Death Statistical Master Files, 2016

Neonatal Mortality

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 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)

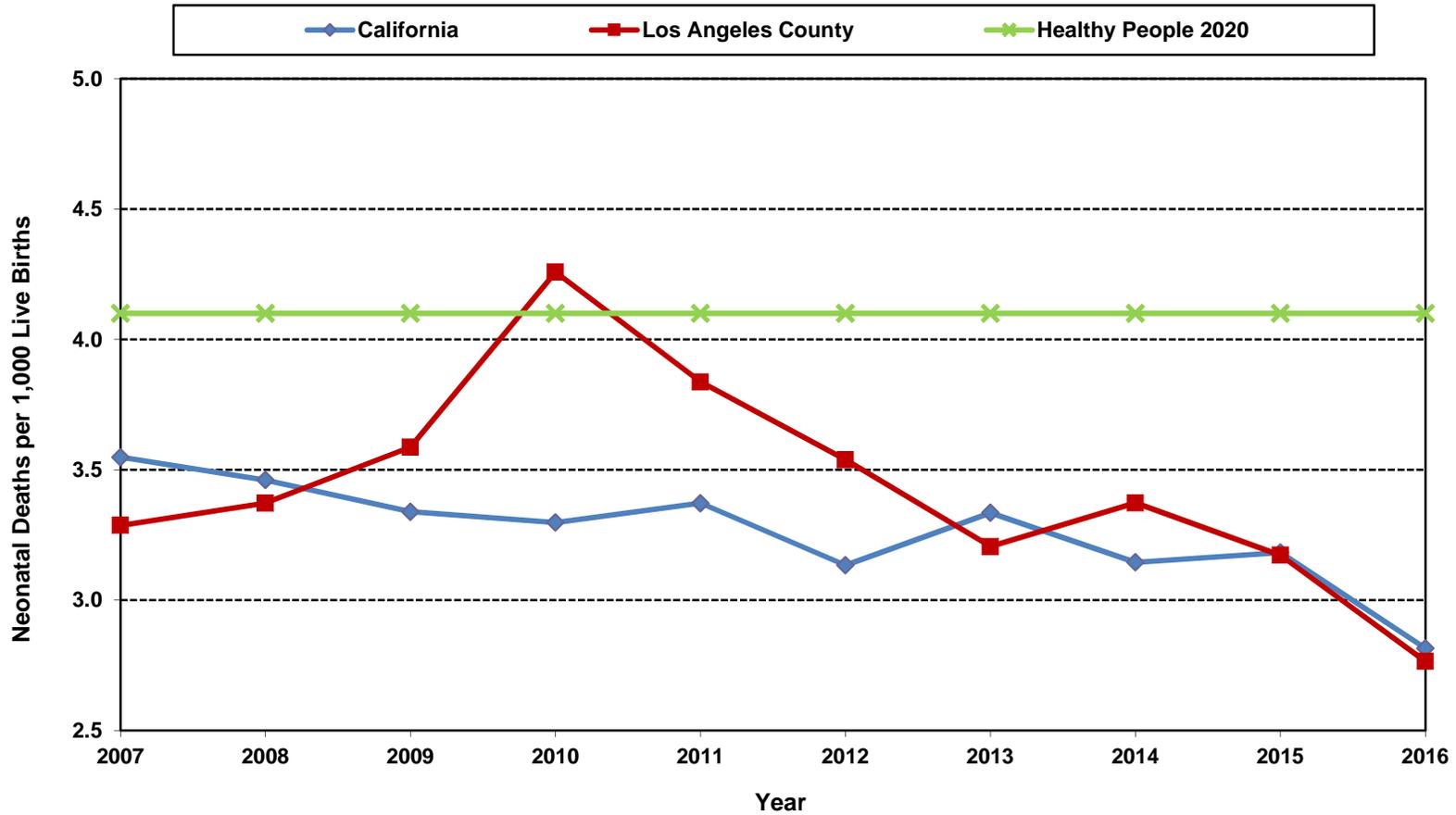
RISK FACTORS: Congenital anomalies; respiratory distress syndrome; short gestation; low birth weight; maternal complications; race/ethnicity (African American, Puerto Rican)

See also risk factors for infant mortality.

Year	California				Los Angeles County				Denominator: Live Births		
	Neonatal Mortality		95% Confidence Interval		Neonatal Mortality		95% Confidence Interval		Year	California	LA County
	Deaths	Rate	Lower	Upper	Deaths	Rate	Lower	Upper			
2007	2,009	3.5	3.4	3.7	499	3.3	3.0	3.6	2007	566,137	151,813
2008	1,909	3.5	3.3	3.6	498	3.4	3.1	3.7	2008	551,567	147,684
2009	1,759	3.3	3.2	3.5	501	3.6	3.3	3.9	2009	526,774	139,679
2010	1,682	3.3	3.1	3.5	567	4.3	3.9	4.6	2010	509,979	133,160
2011	1,693	3.4	3.2	3.5	500	3.8	3.5	4.2	2011	502,023	130,313
2012	1,579	3.1	3.0	3.3	466	3.5	3.2	3.9	2012	503,788	131,697
2013	1,649	3.3	3.2	3.5	412	3.2	2.9	3.5	2013	494,392	128,526
2014	1,582	3.1	3.0	3.3	439	3.4	3.1	3.7	2014	502,973	130,150
2015	1,565	3.2	3.0	3.3	395	3.2	2.9	3.5	2015	491,748	124,507
2016	1,376	2.8	2.7	3.0	340	2.8	2.5	3.1	2016	488,827	122,941

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

Neonatal Mortality Rate California vs. Los Angeles County 2007-2016

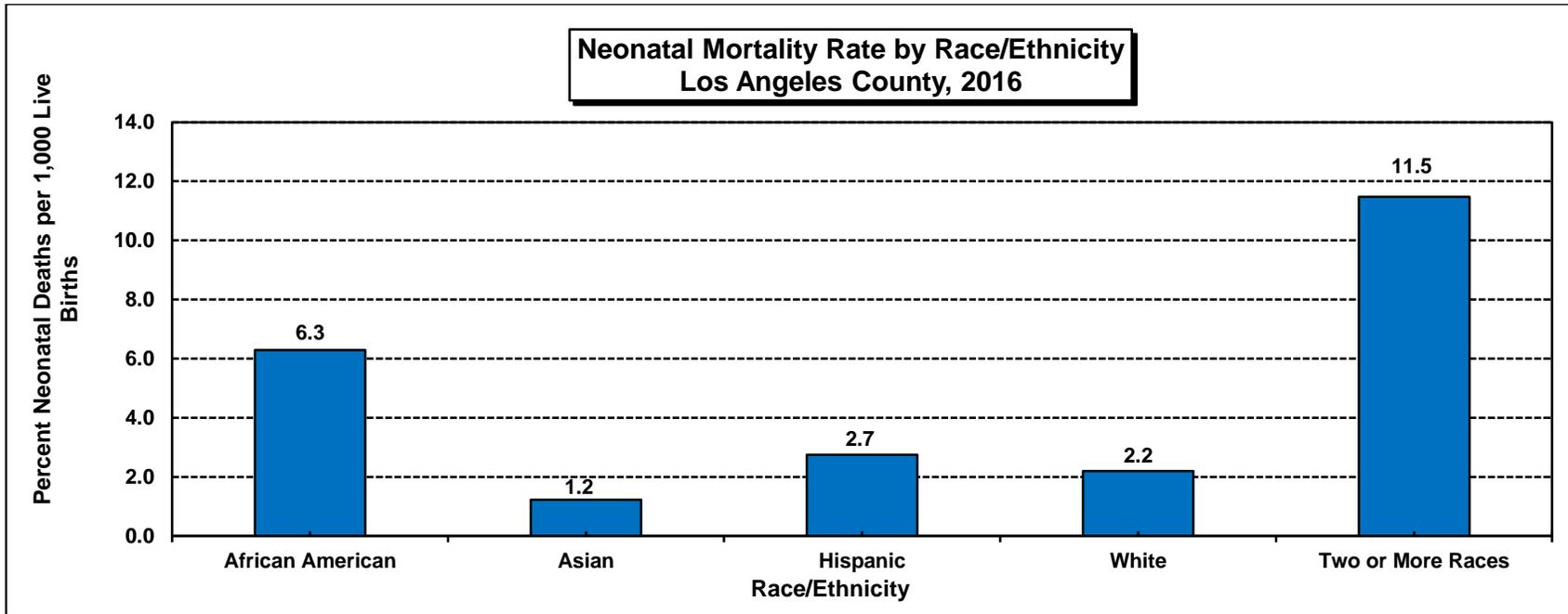


Year 2020 Objective: Reduce the neonatal mortality rate to no more than 4.1 per 1,000 live births.

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

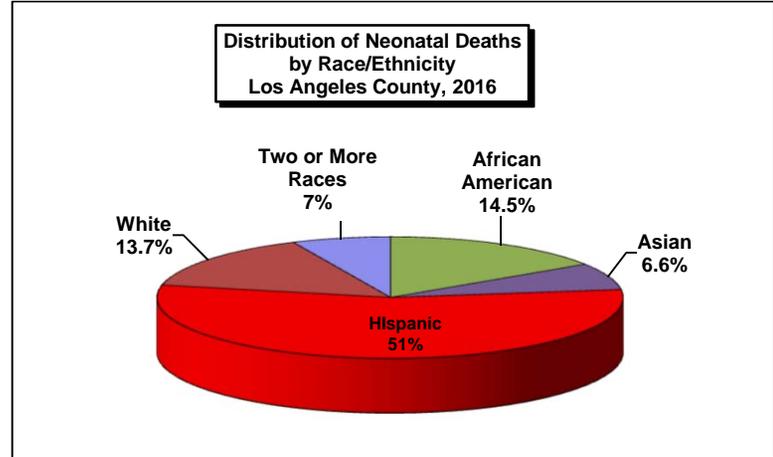
Sources: California Department of Public Health, Birth and Death Statistical Master Files, 2007-2016.

Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics, Natality public-use data 2007-2016 (for state data).



Los Angeles County, 2016				
Race/Ethnicity	Neonatal Mortality		95% Confidence Interval	
	Deaths	Rate	Lower	Upper
African American	53	6.3	4.6	8.0
Asian	24	1.2	0.7	1.7
Pacific Islander	<5	N/C	N/C	N/C
Hispanic	186	2.7	2.4	3.1
Native American	<5	N/C	N/C	N/C
White	50	2.2	1.6	2.8
Two or More Races	23	11.5	6.8	16.1
Other/Unknown	<5	N/C	N/C	N/C
Total	340	2.8	2.5	3.1

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



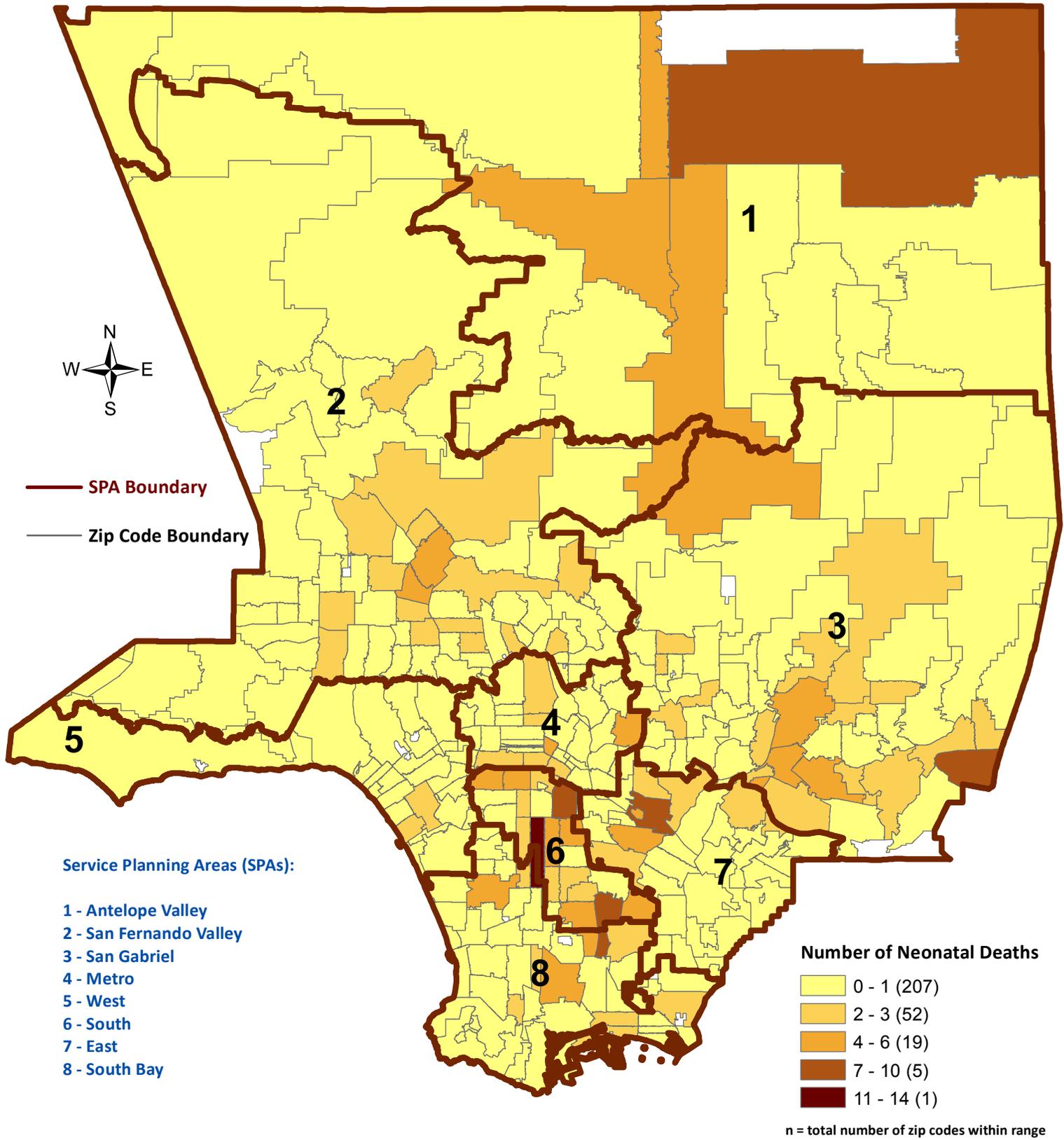
Year 2020 Objective: Reduce the neonatal mortality rate to no more than 4.1 per 1,000 live births.

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

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 and Death Statistical Master Files, 2016.

**Los Angeles County - Department of Public Health
 Number of Neonatal Deaths 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

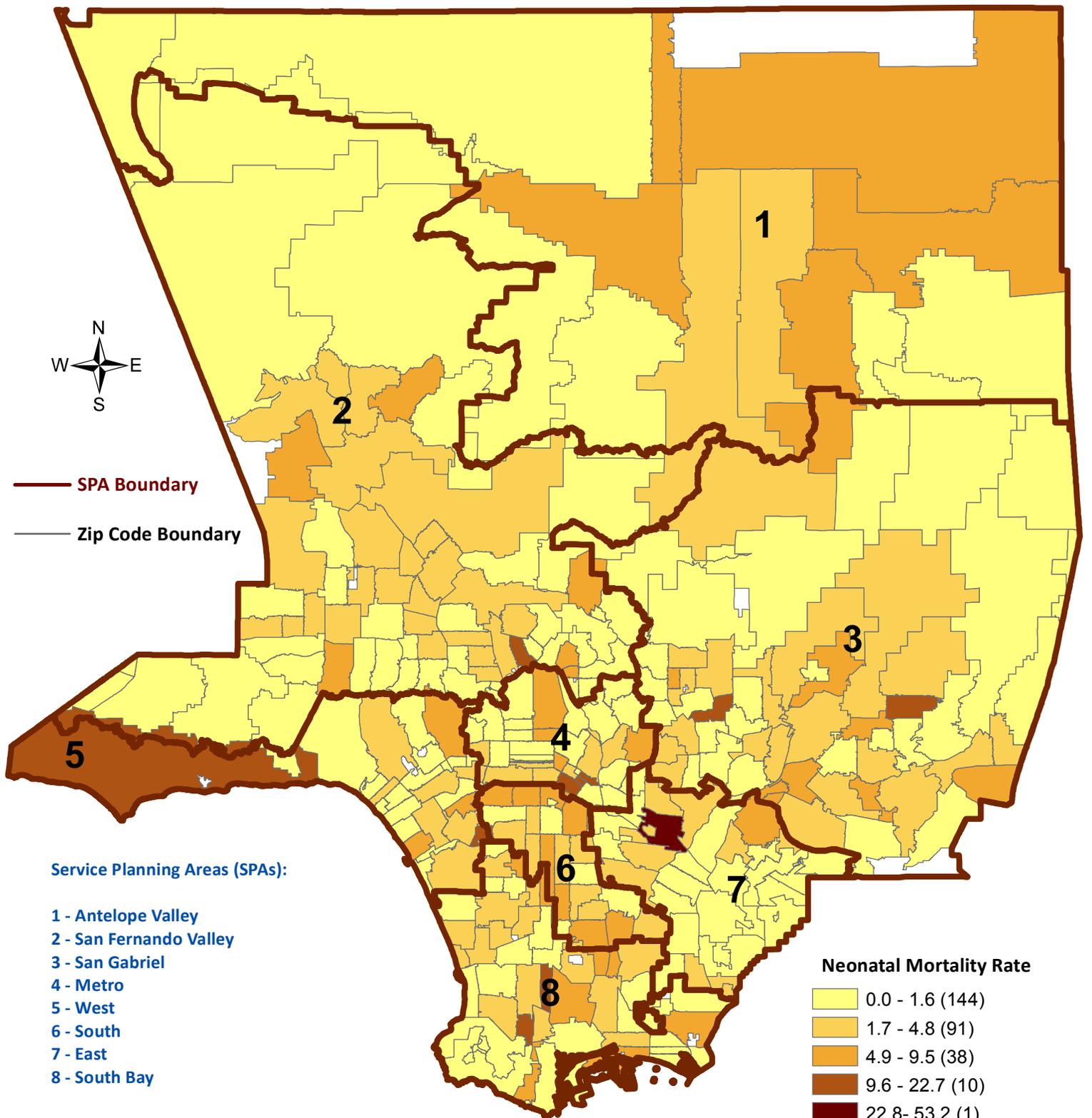
Total number of neonatal deaths in Los Angeles County, 2016 = 340

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

Zip code 90704 (Catalina Island) is not included. Total number of neonatal deaths in 90704, 2016 = < 5

Source: California Department of Public Health, Birth and Death Statistical Master Files, 2016.

**Los Angeles County - Department of Public Health
Neonatal Mortality Rate 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
 Neonatal mortality rate per 1,000 live births in Los Angeles County, 2016 = 2.8
 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 at less than 28 days per 1,000 live births.
 Zip code 90704 (Catalina Island) is not included. Neonatal mortality rate in 90704, 2016 = < 5
 Source: California Department of Public Health, Birth and Death Statistical Master Files, 2016

n = total number of zip codes within range

Post-Neonatal Mortality

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 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.

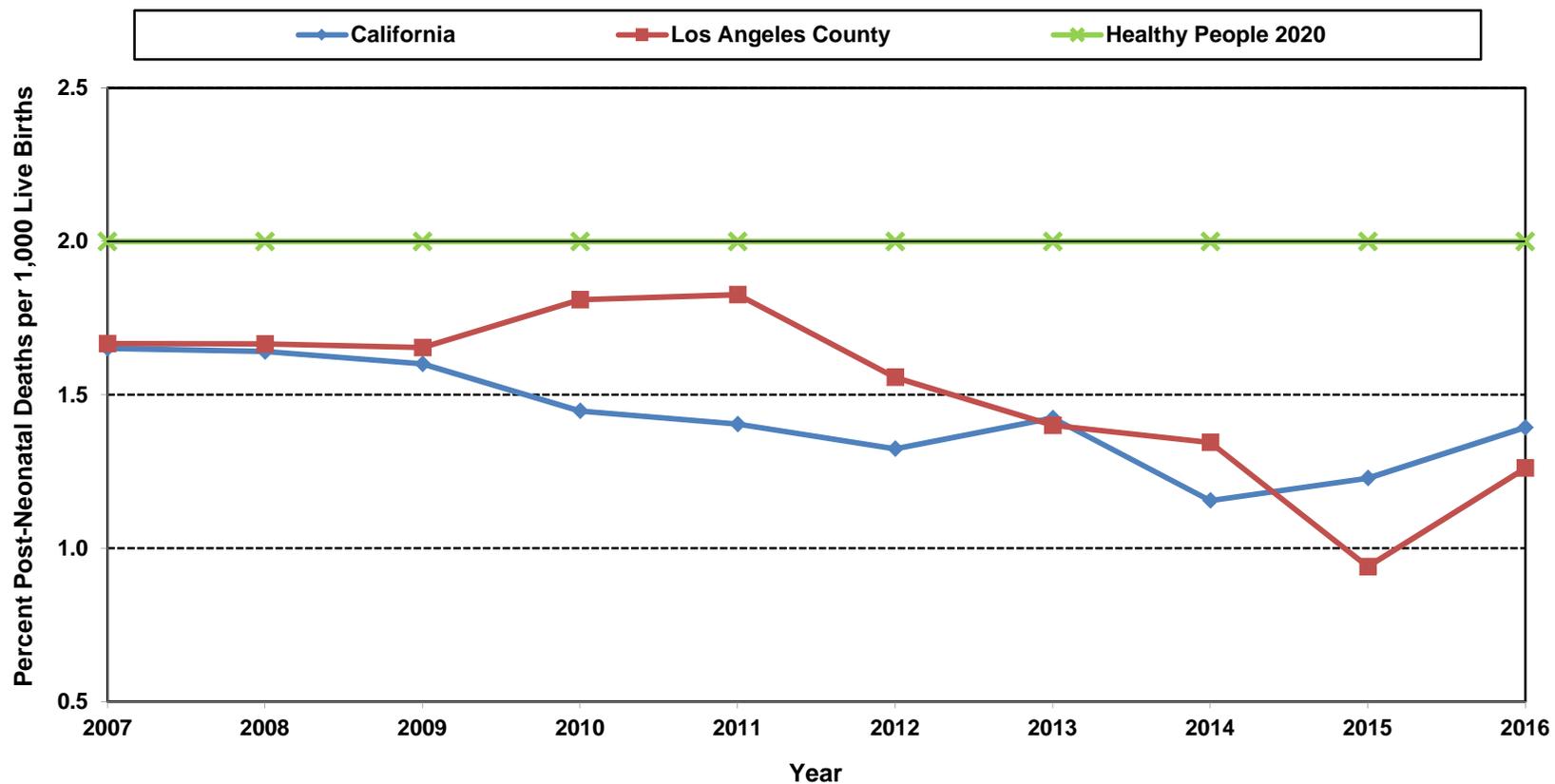
Year	California				Los Angeles County				Denominator: Live Births		
	Post-Neonatal Mortality		95% Confidence Interval		Post-Neonatal Mortality		95% Confidence Interval		Year	California	LA County
	Deaths	Rate	Lower	Upper	Deaths	Rate	Lower	Upper			
2007	935	1.7	1.5	1.8	253	1.7	1.5	1.9	2007	566,137	151,813
2008	905	1.6	1.5	1.7	246	1.7	1.5	1.9	2008	551,567	147,684
2009	843	1.6	1.5	1.7	231	1.7	1.4	1.9	2009	526,774	139,679
2010	738	1.4	1.3	1.6	241	1.8	1.6	2.0	2010	509,979	133,160
2011	705	1.4	1.3	1.5	238	1.8	1.6	2.1	2011	502,023	130,313
2012	667	1.3	1.2	1.4	205	1.6	1.3	1.8	2012	503,788	131,697
2013	704	1.4	1.3	1.5	180	1.4	1.2	1.6	2013	494,392	128,526
2014	581	1.2	1.1	1.2	175	1.3	1.1	1.5	2014	502,973	130,150
2015	604	1.2	1.1	1.3	117	0.9	0.8	1.1	2015	491,748	124,507
2016	681	1.4	1.3	1.5	155	1.3	1.1	1.5	2016	488,827	122,941.0

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

Data Source: California Department of Public Health, Birth and Death Statistical Master Files, 2007-2016.

Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics, Natality public-use data 2007-2016 (for state data).

Post-Neonatal Mortality Rate California vs. Los Angeles County, 2007-2016



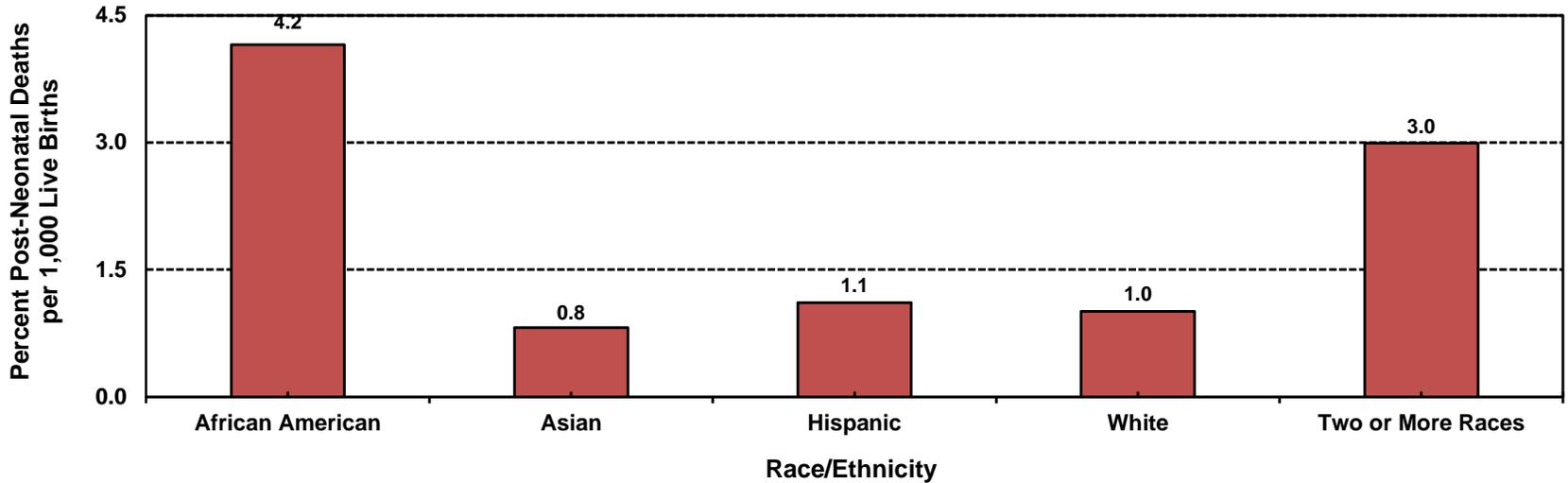
Year 2020 Objective: Reduce the post-neonatal mortality rate to no more than 2.0 per 1,000 live births.

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

Sources: California Department of Public Health, Birth and Death Statistical Master Files, 2007-2016.

Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics, Natality public-use data 2007-2016 (for state data).

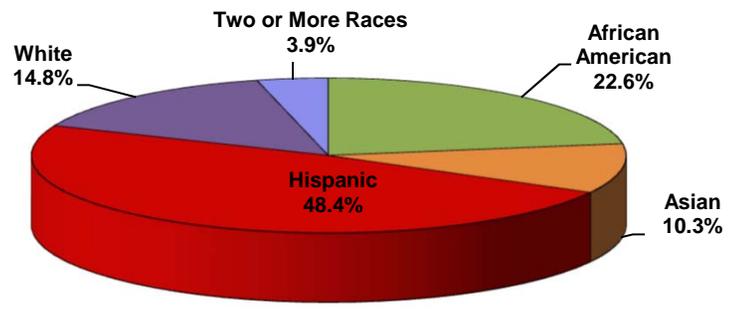
**Post-Neonatal Mortality Rate by Race/Ethnicity
Los Angeles County, 2016**



Los Angeles County, 2016				
Race/Ethnicity	Post-Neonatal Mortality		95% Confidence Interval	
	Deaths	Rate	Lower	Upper
African American	35	4.2	2.8	5.5
Asian	16	0.8	0.4	1.2
Pacific Islander	<5	N/C	NC	N/C
Hispanic	75	1.1	0.9	1.4
Native American	<5	N/C	NC	N/C
White	23	1.0	0.6	1.4
Two or More Races	6	3.0	0.6	5.4
Other/Unknown	<5	N/C	NC	N/C
Total	155	1.3	1.1	1.5

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

**Distribution of Post-Neonatal Deaths
by Race/Ethnicity
Los Angeles County, 2016**

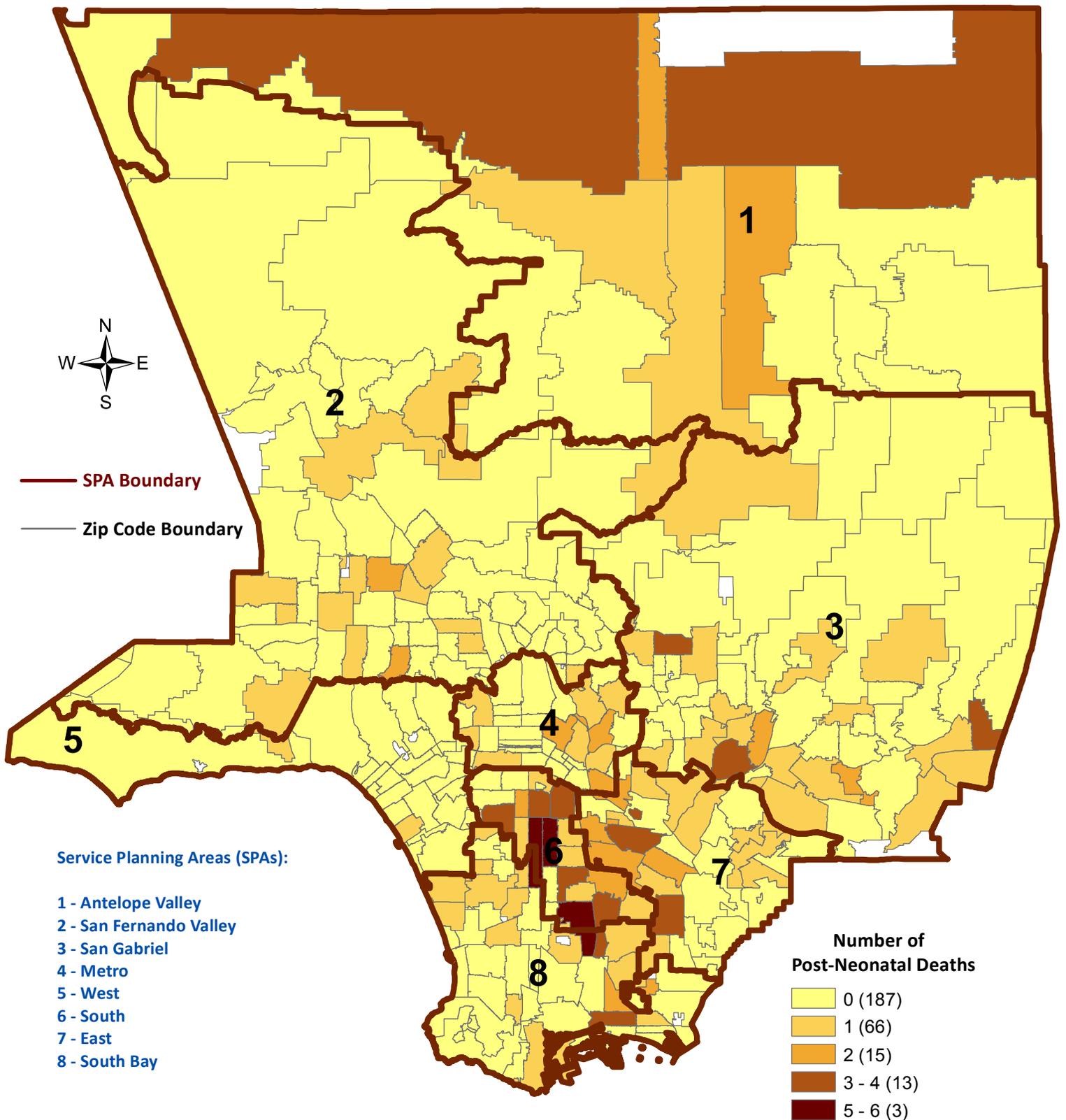


Year 2020 Objective: Reduce the post-neonatal mortality rate to no more than 2.0 per 1,000 live births.

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

Source: California Department of Public Health, Birth and Death Statistical Master Files, 2016

**Los Angeles County - Department of Public Health
 Number of Post-Neonatal Deaths 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

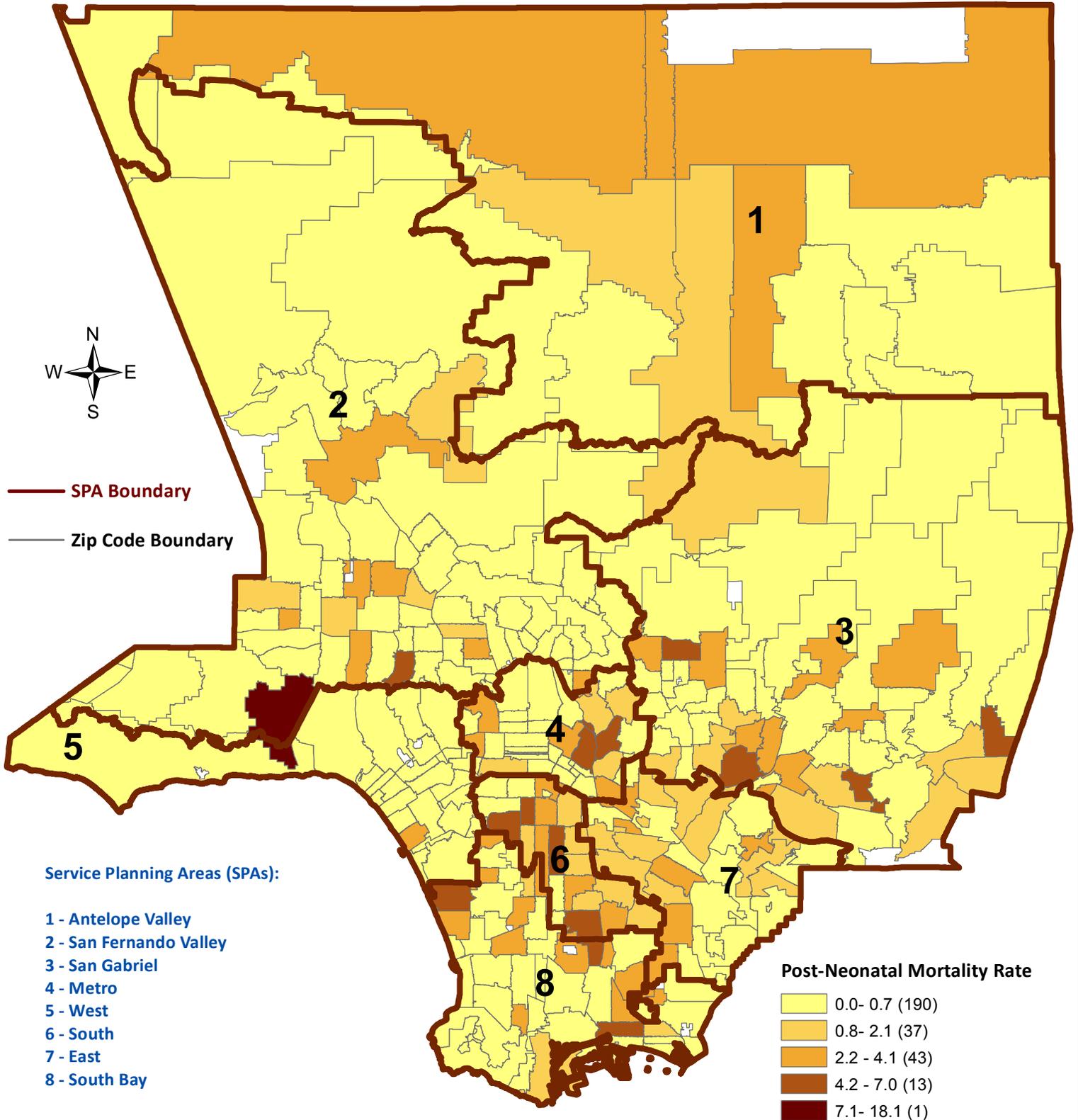
Total number of post-neonatal deaths in Los Angeles County, 2016 = 155

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, 2016 = < 5

Source : California Department of Public Health, Birth and Death Statistical Master Files, 2016

**Los Angeles County - Department of Public Health
 Post-Neonatal Mortality Rate 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

Post-neonatal mortality rate per 1,000 live births in Los Angeles County, 2016 = 1.3

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, 2016 = < 5

Source : California Department of Public Health, Birth and Death Statistical Master Files, 2016