



SUICIDE IN SAN DIEGO COUNTY, 2017

SUICIDE PREVENTION COUNCIL
ANNUAL STAKEHOLDERS MEETING
JUNE 26, 2018

*Joshua Smith, PhD, MPH, Senior Epidemiologist
County of San Diego, Health and Human Services Agency
Medical Care Services Division
Emergency Medical Services*



DISCLAIMER



LIVE WELL
SAN DIEGO

IMPORTANT NOTE:

By this time of year, we normally receive San Diego County population estimates from either the American Community Survey or SANDAG. Because we do not yet have these population estimates, 2016 population estimates were repeated for 2017.

Therefore, most rates calculated for 2017 in this presentation, using 2016 population estimates, **are probably TOO HIGH**. Most 2017 population group estimates will be higher than the equivalent 2016 estimate, therefore leading to a lower rate.

~~2017 Rates~~
Calculated Using
2016 Population
~~Estimates~~

SUICIDES IN 2017



LIVE WELL
SAN DIEGO

Total number of suicides in 2017: 457

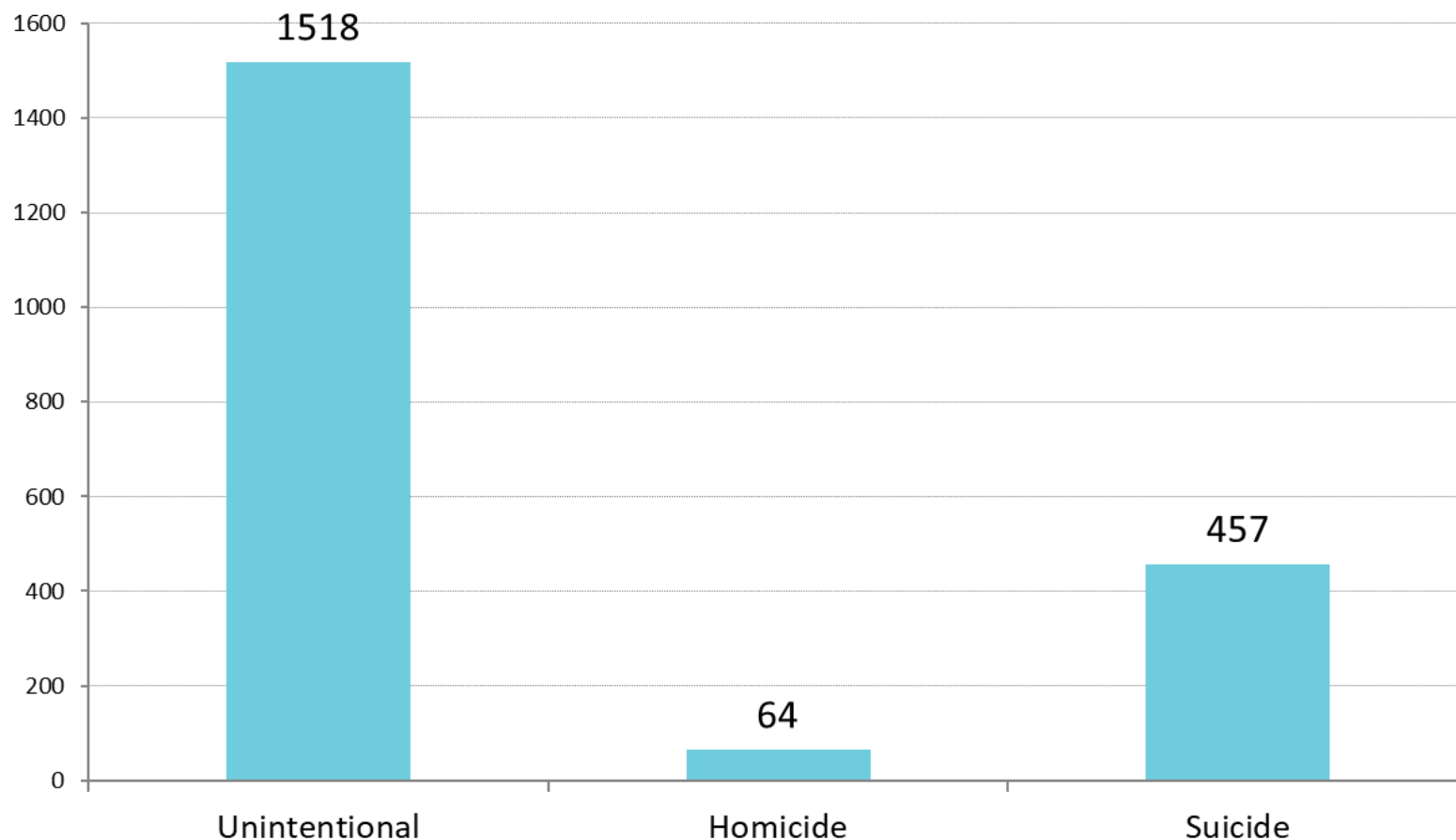
- 15.9 per 100,000 people (10+ years old)
- Slight increase compared to 2016
- Similar rate to 2013, which was highest since 1995
- Gender
 - 354 males
 - 103 females
- Age range
 - 13 to 96 years

2017 Rates
Calculated Using
2016 Population
Estimates

NON-NATURAL DEATHS IN SAN DIEGO COUNTY, 2017

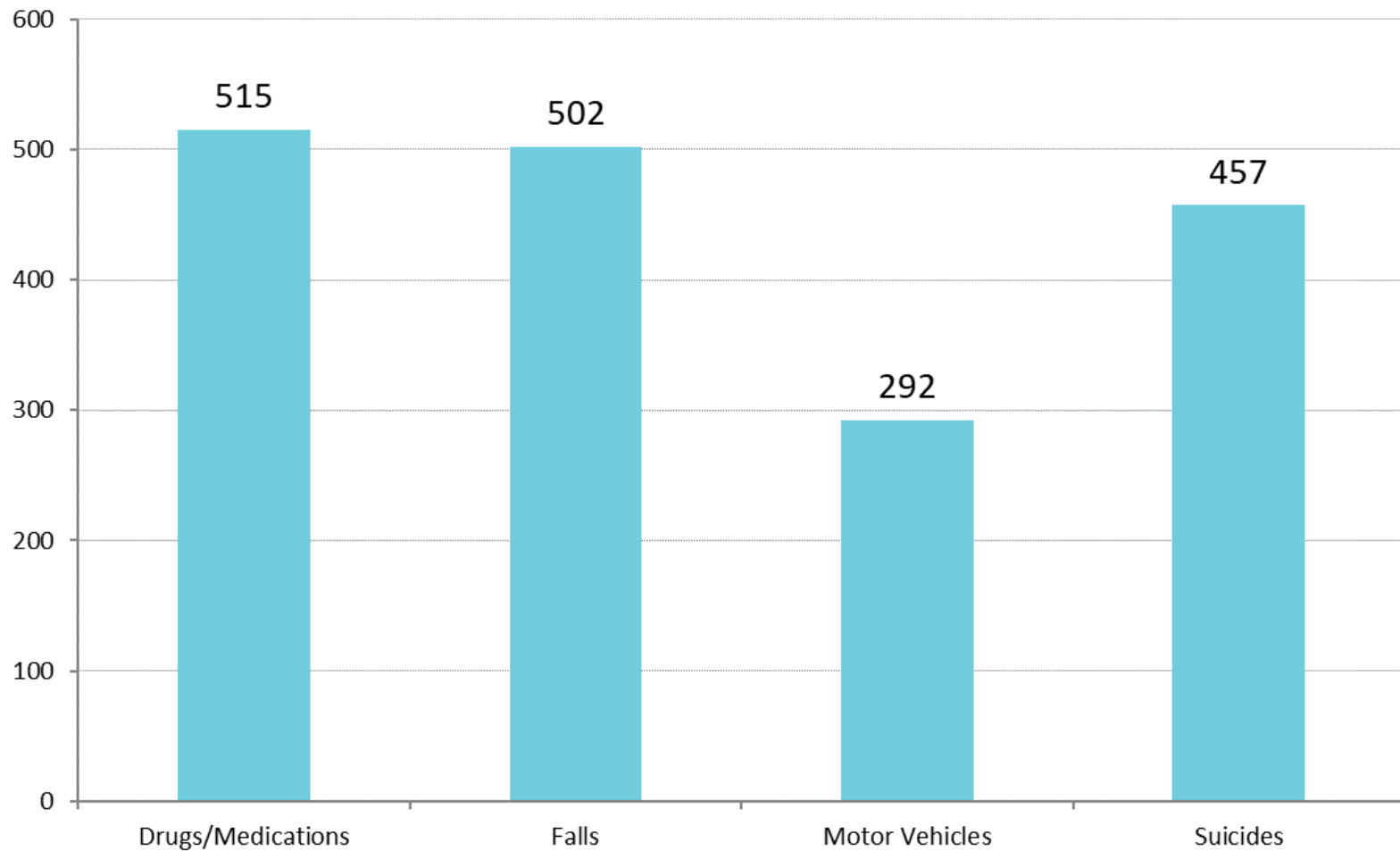


LIVE WELL
SAN DIEGO



Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

SUICIDES VS UNINTENTIONAL DEATHS, 2017



Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

SUICIDES BY AGE GROUP IN 2017



Age Group	Male	Male Rate**	Female	Female Rate**	Total	Total Rate**
10-19	16	8.2	2	*	18	4.5
20-29	58	23.0	14	4.7	72	13.1
30-39	49	21.3	14	5.7	63	13.3
40-49	49	23.4	15	7.2	64	15.3
50-59	71	33.2	17	8.2	88	20.8
60-69	46	27.5	25	16.5	71	22.2
70-79	39	41.6	10	13.1	49	28.8
80+	26	37.0	6	13.2	32	27.7

*Rates not calculated for totals less than 5

**Rates per 100,000 people

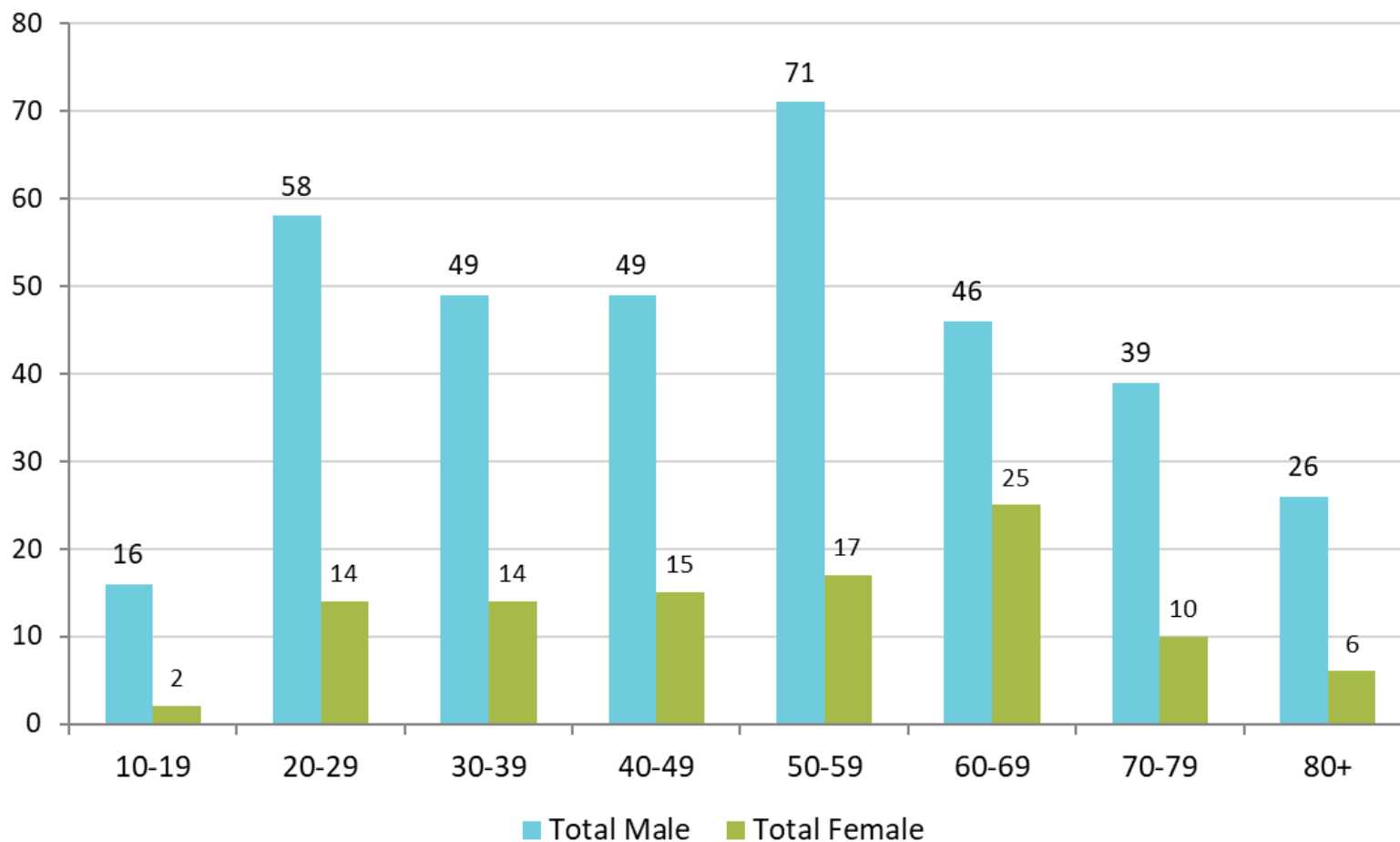
Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

**2017 Rates
Calculated Using
2016 Population
Estimates**

TOTAL SUICIDES BY AGE GROUP AND GENDER, 2017

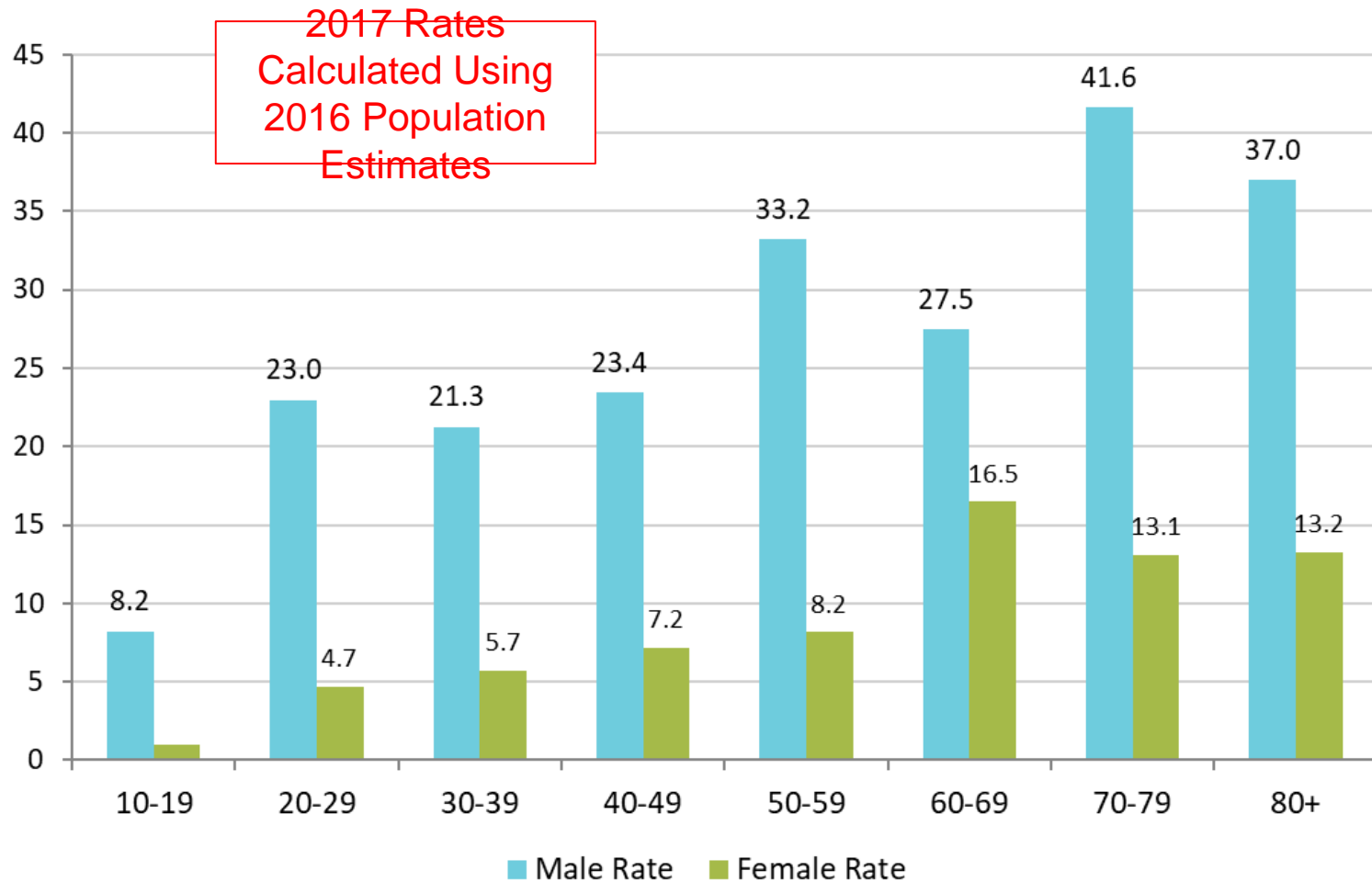


LIVE WELL
SAN DIEGO



Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

SUICIDE RATES BY AGE GROUP AND GENDER, 2017



Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

Rates per 100,000 people

SUICIDES BY RACE/ETHNICITY IN 2017



Race/ Ethnicity	Male	Male Rate**	Female	Female Rate**	Total	Total Rate**
White	261	35.2	81	10.4	342	22.5
Black	21	29.3	4	*	25	15.9
Hispanic	40	7.2	11	2.0	51	4.6
Asian/PI	21	10.1	5	2.7	26	6.6

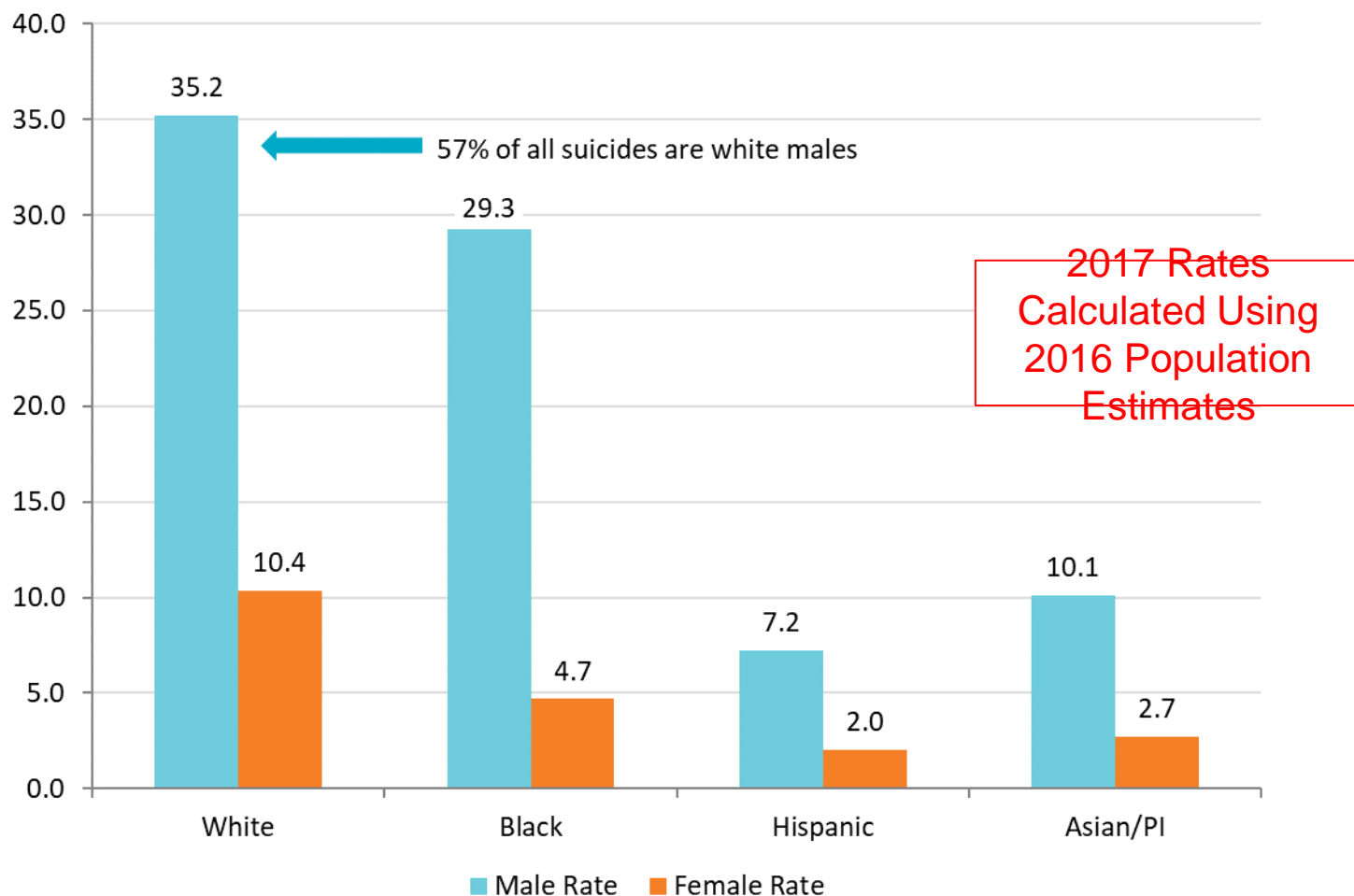
*Rates not calculated for totals less than 5

**Rates per 100,000 people

2017 Rates
Calculated Using
2016 Population
Estimates

Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

SUICIDE RATES BY RACE AND GENDER, 2017



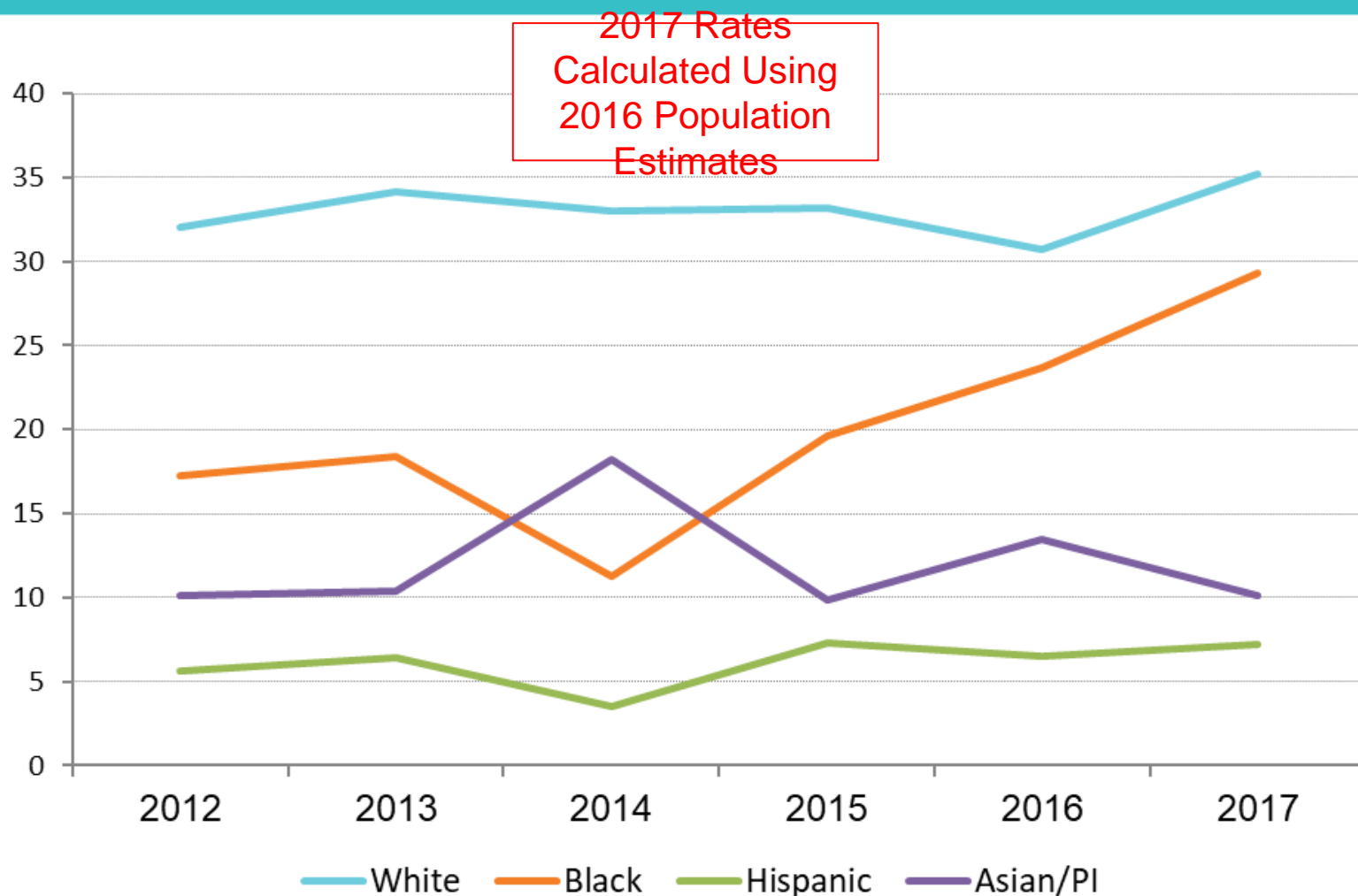
Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

Rates per 100,000 people

MALE SUICIDE RATES* BY RACE/ETHNICITY, 2012 -2017



LIVE WELL
SAN DIEGO



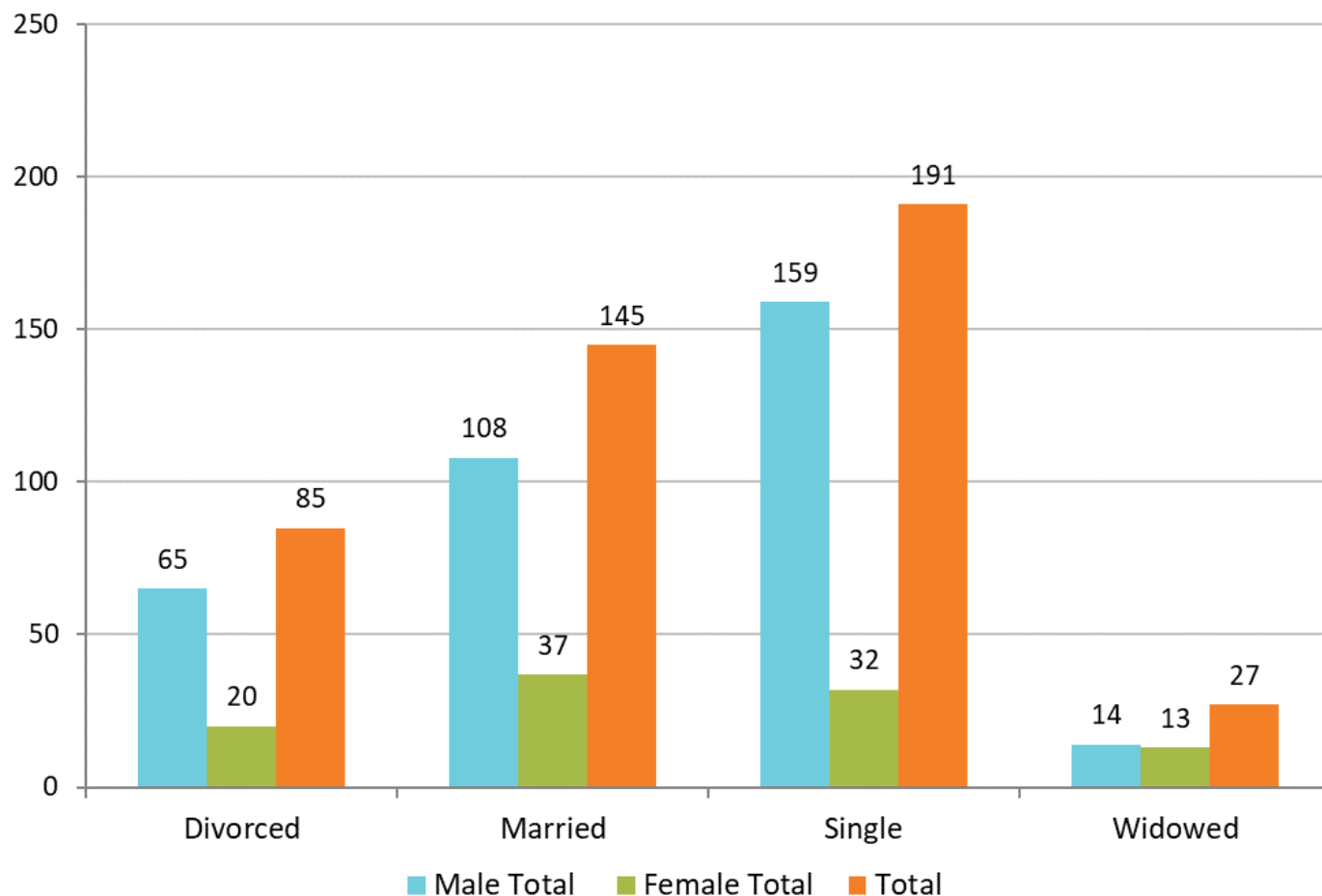
Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

*Rates per 100,000 people

SUICIDES BY MARITAL STATUS, 2017



LIVE WELL
SAN DIEGO

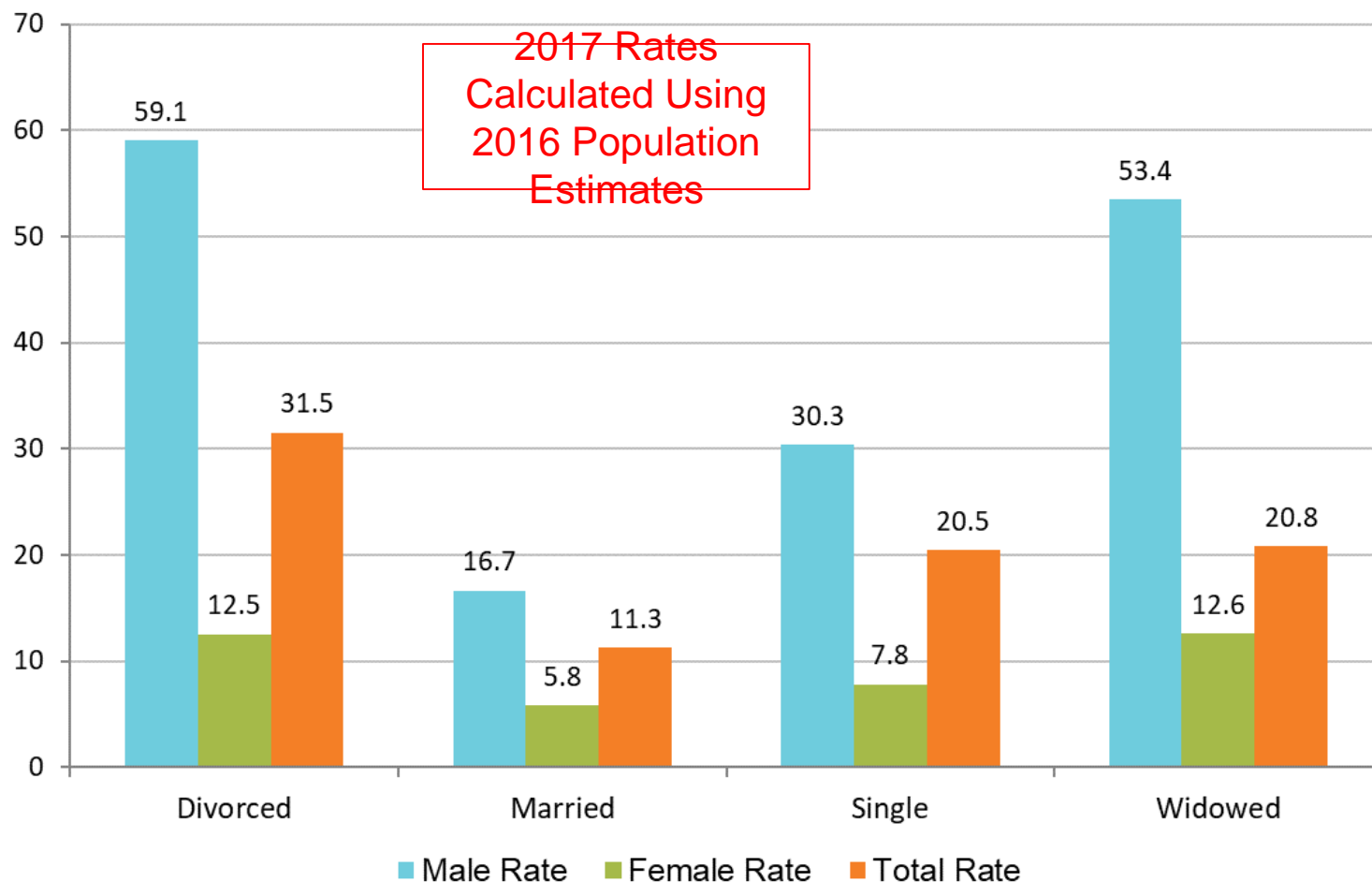


Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

SUICIDE RATES BY MARITAL STATUS, 2017



LIVE WELL
SAN DIEGO



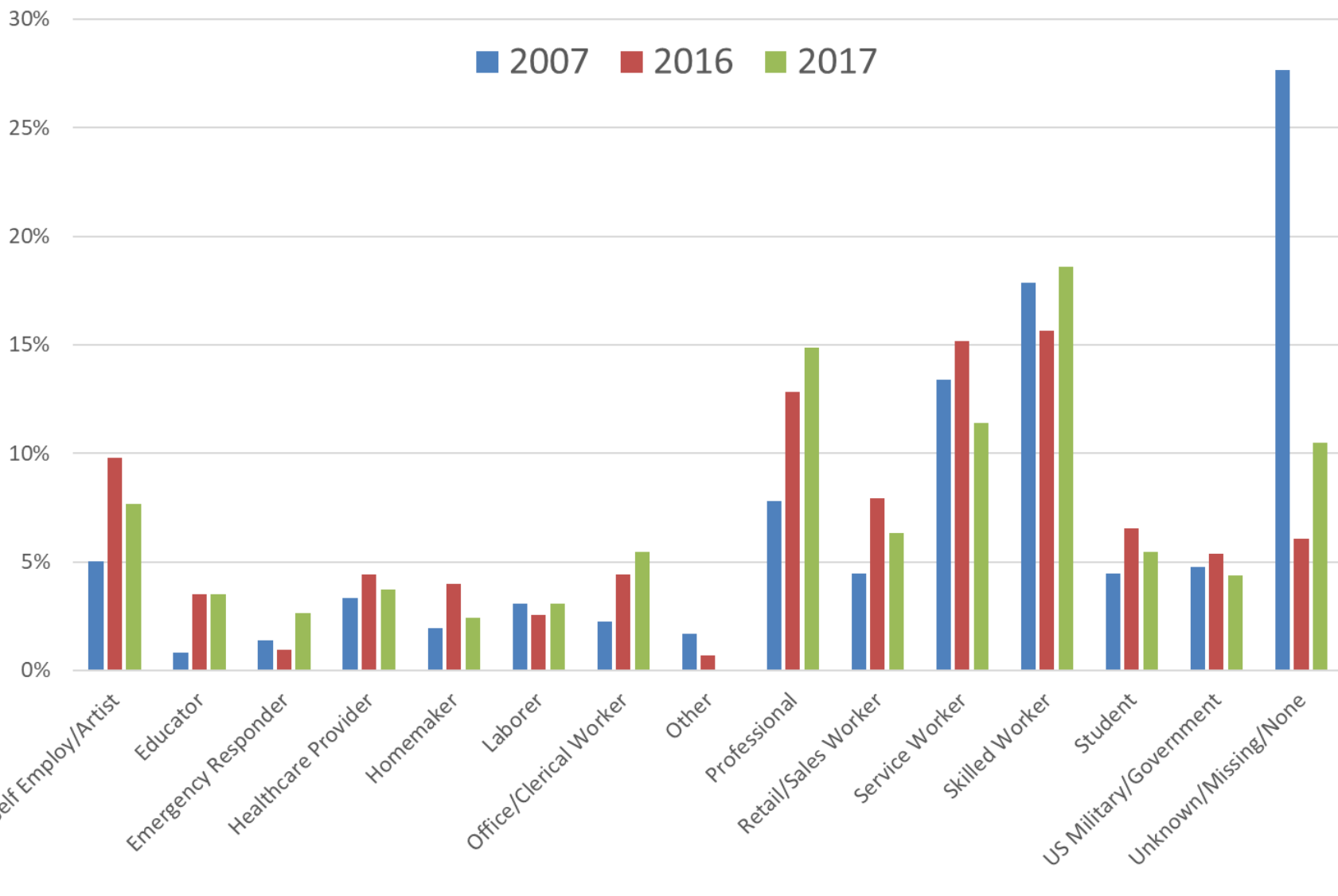
Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

Rates per 100,000 people

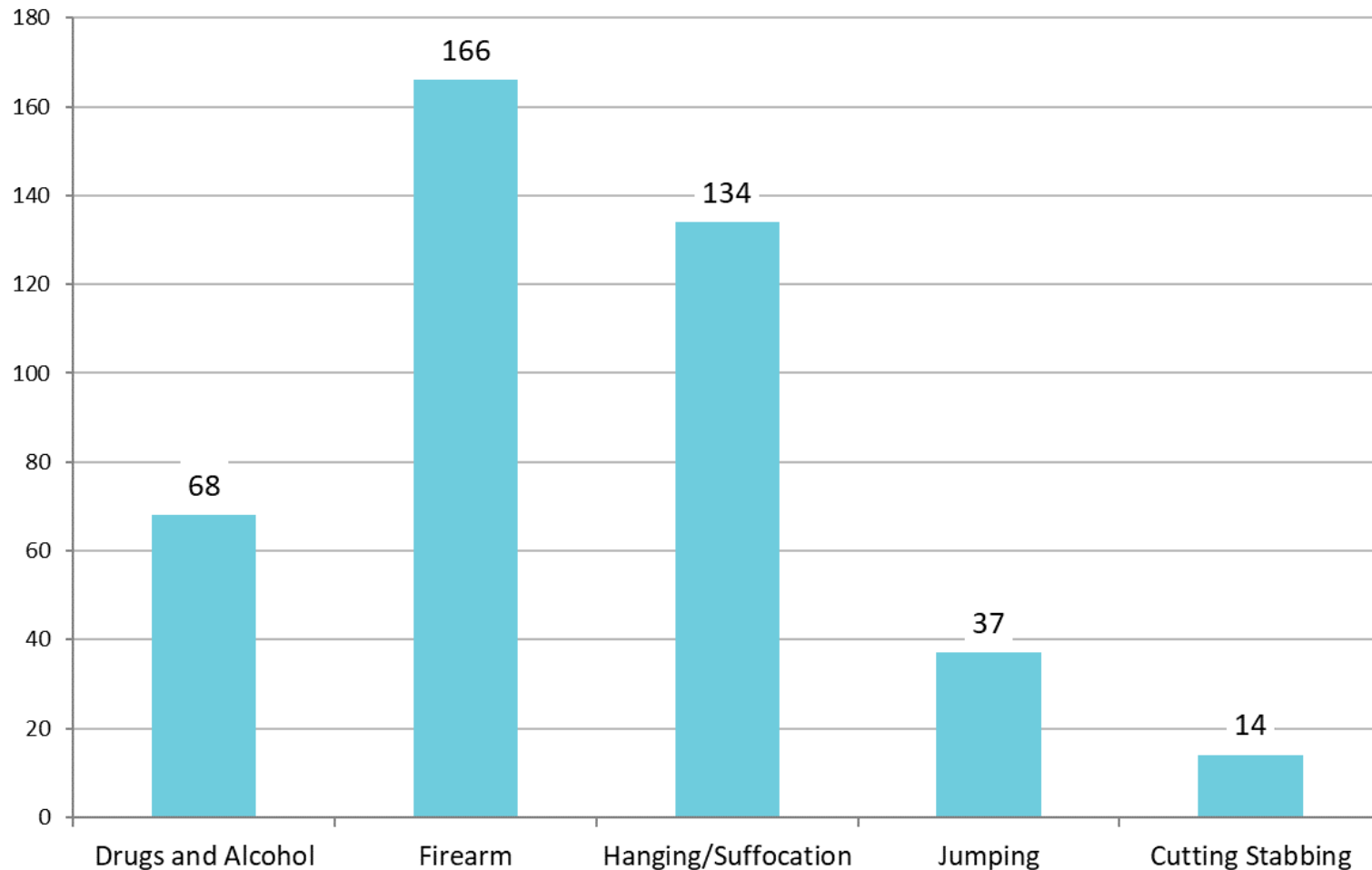
OCCUPATIONAL TRENDS, 2007 - 2017



LIVE WELL
SAN DIEGO

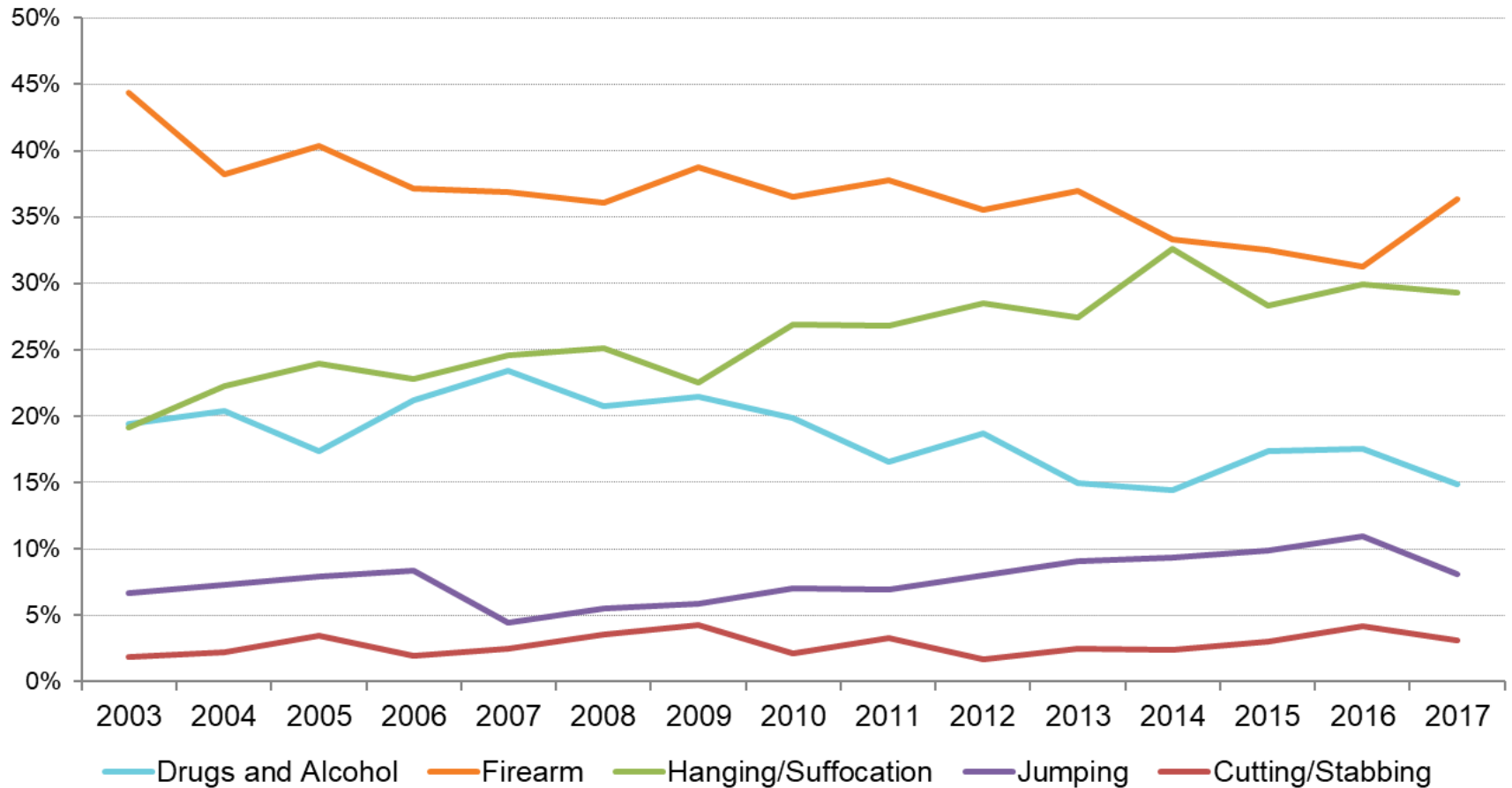


METHOD OF SUICIDE, 2017



Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

PERCENT METHOD OF SUICIDE, 2003 - 2017

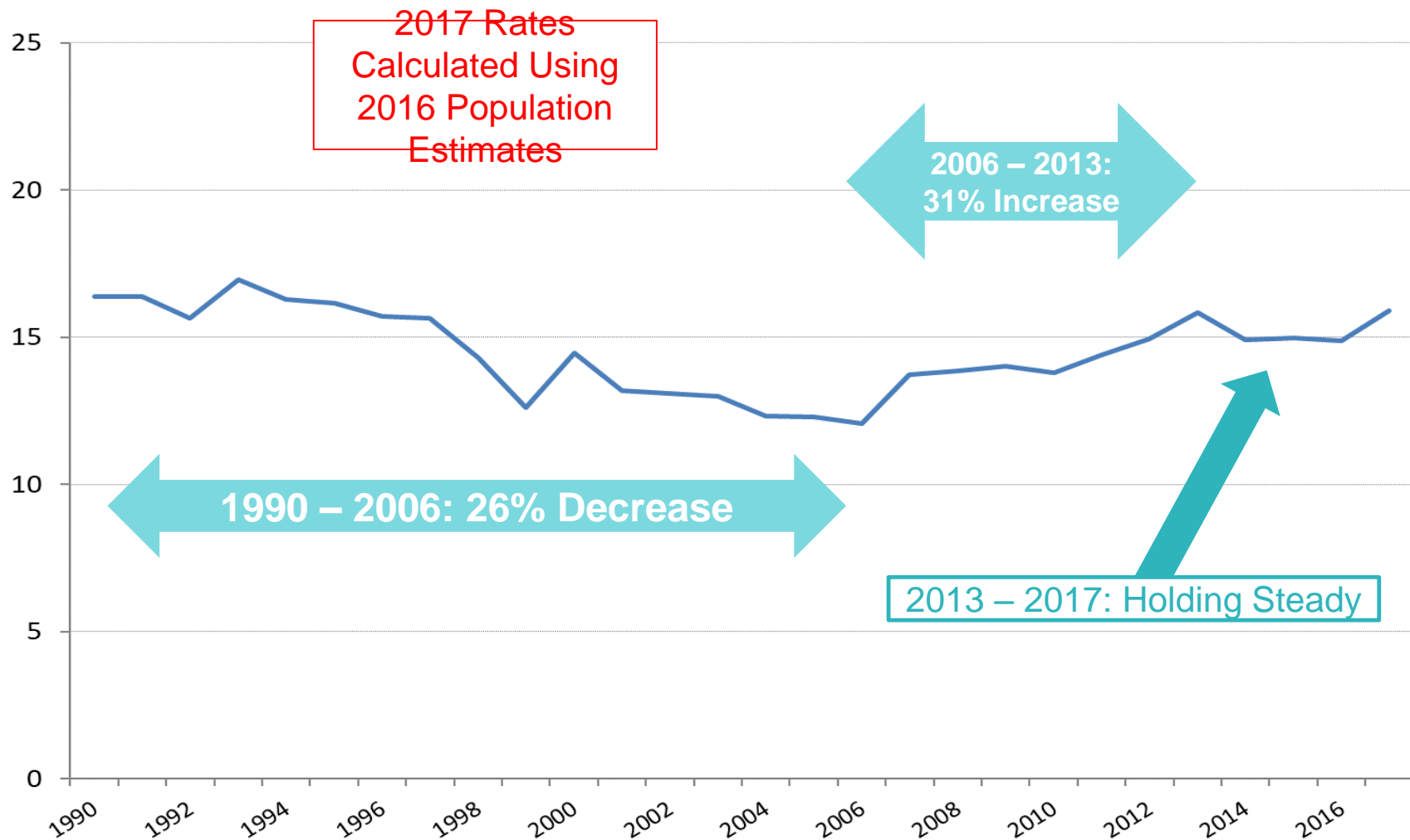


Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.



SUICIDE TRENDS

SAN DIEGO COUNTY SUICIDE RATES, 1990 - 2017



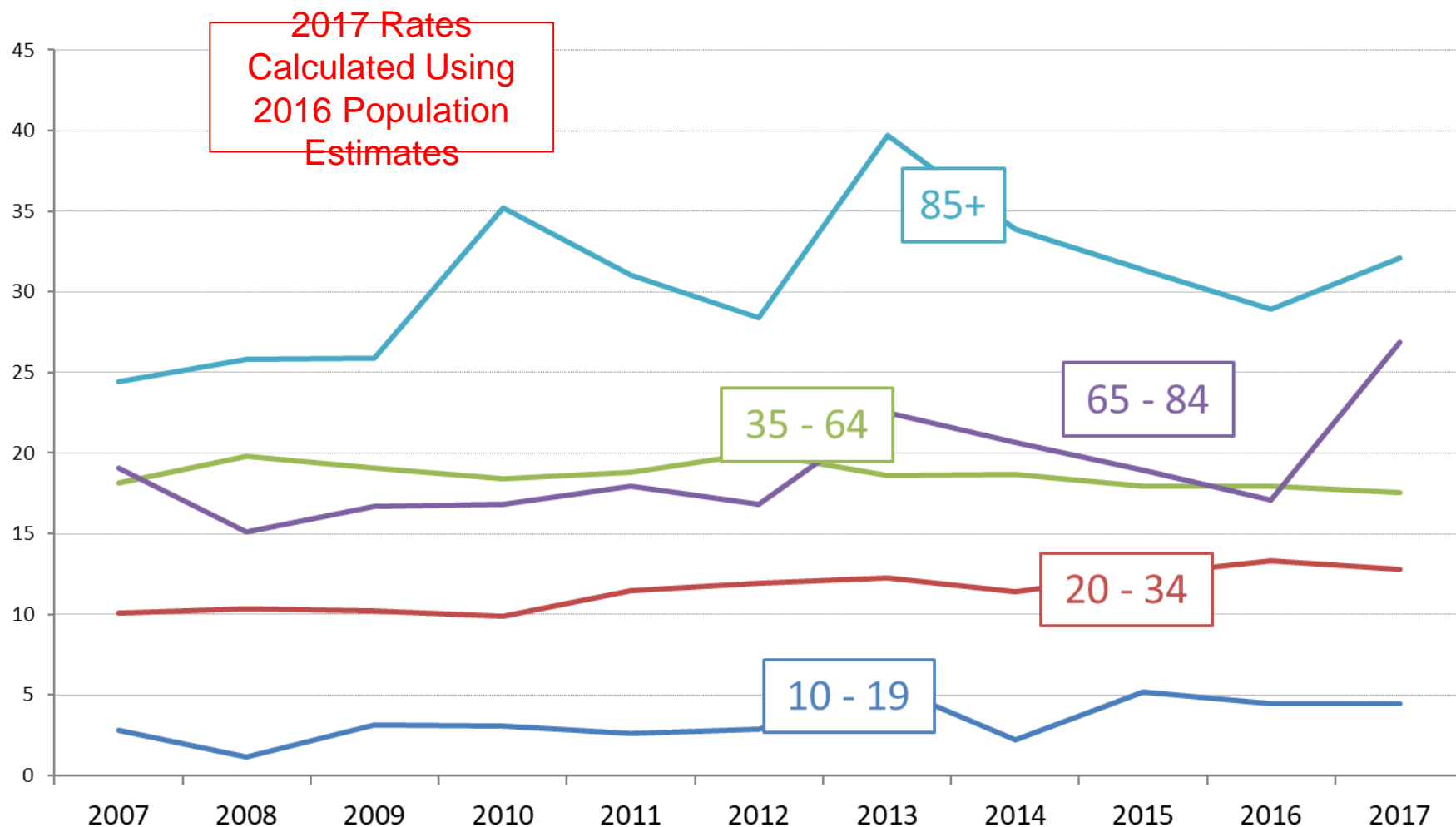
Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

Rates per 100,000 people aged 10+

SUICIDE RATES BY AGE GROUP, 2007-2017

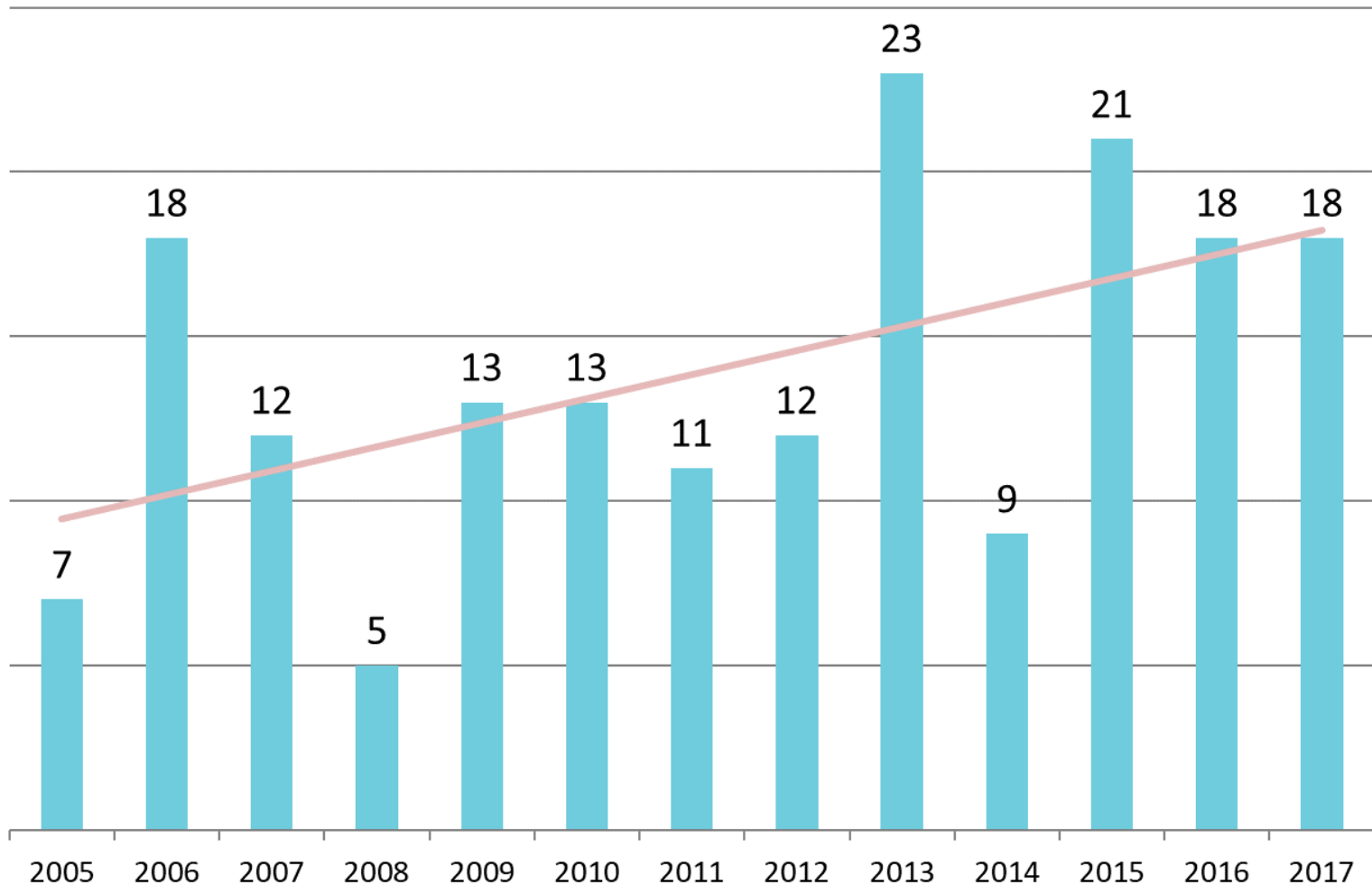


LIVE WELL
SAN DIEGO



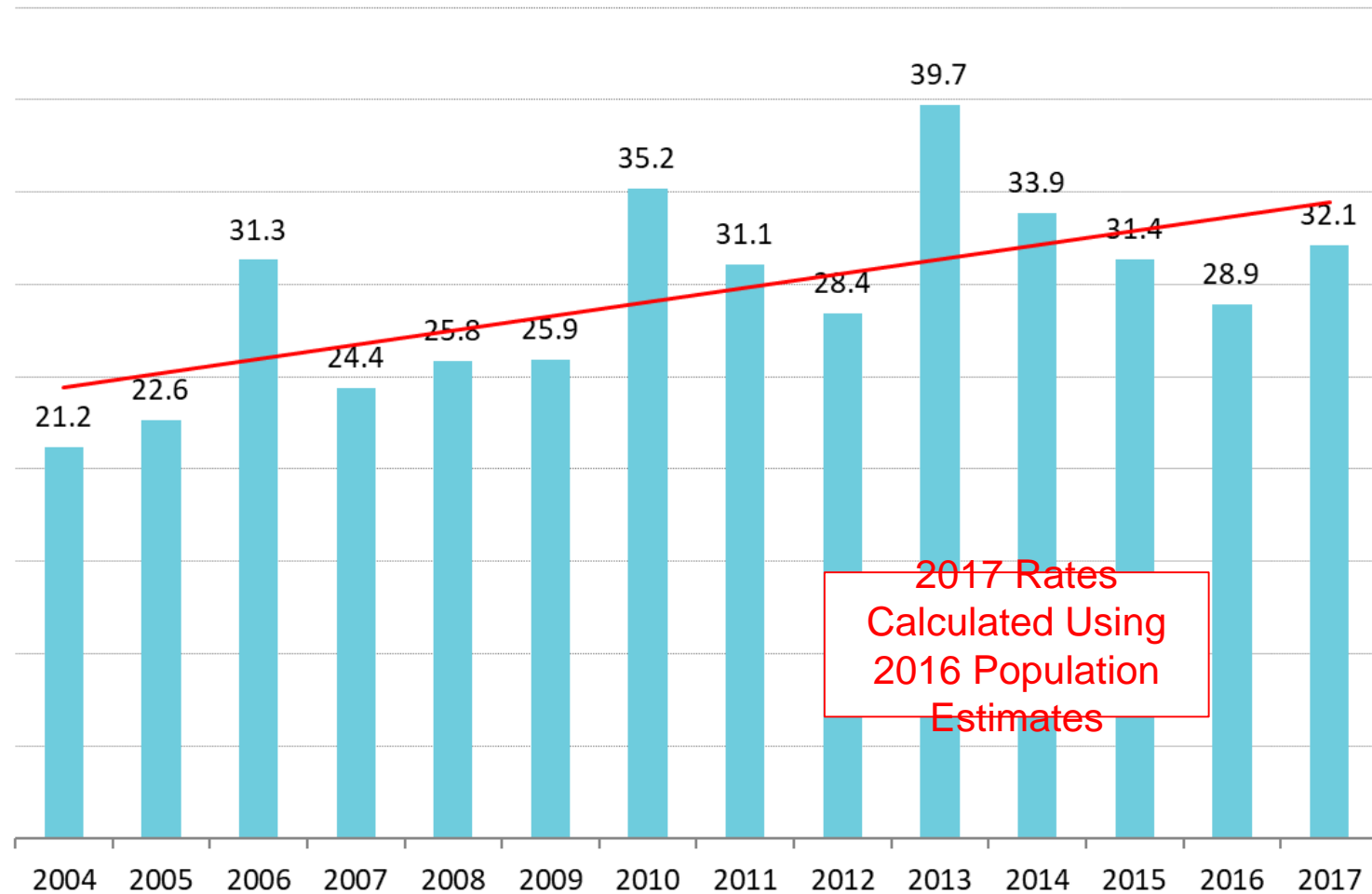
Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

SUICIDE TRENDS, 10 - 19 YEARS OLD 2005 - 2017



Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

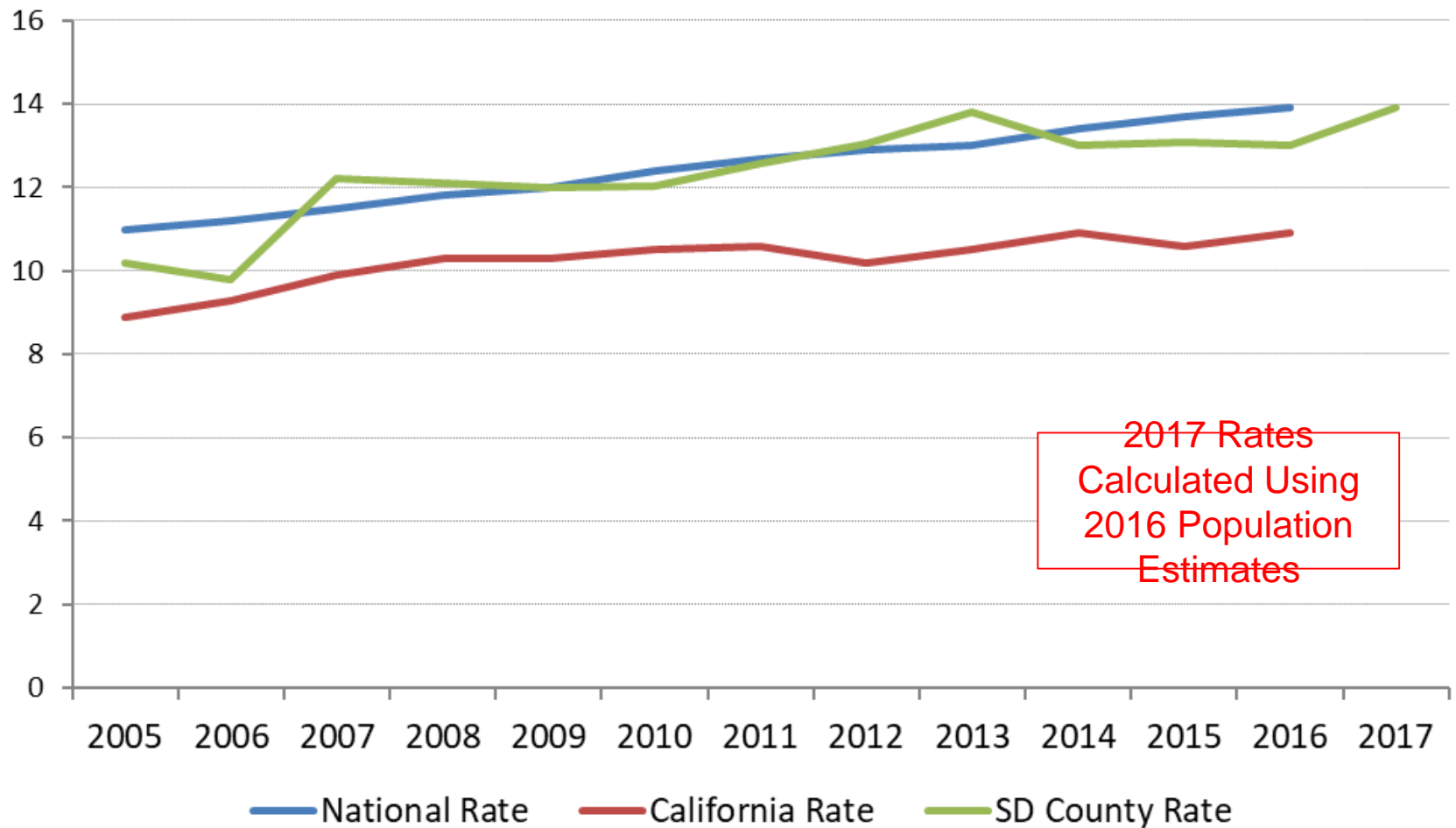
SUICIDE RATE TRENDS, 85 YEARS AND OLDER



Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

Rates per 100,000 people

NATIONAL & STATE COMPARISON, 2005-2017



Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

Rates per 100,000 people



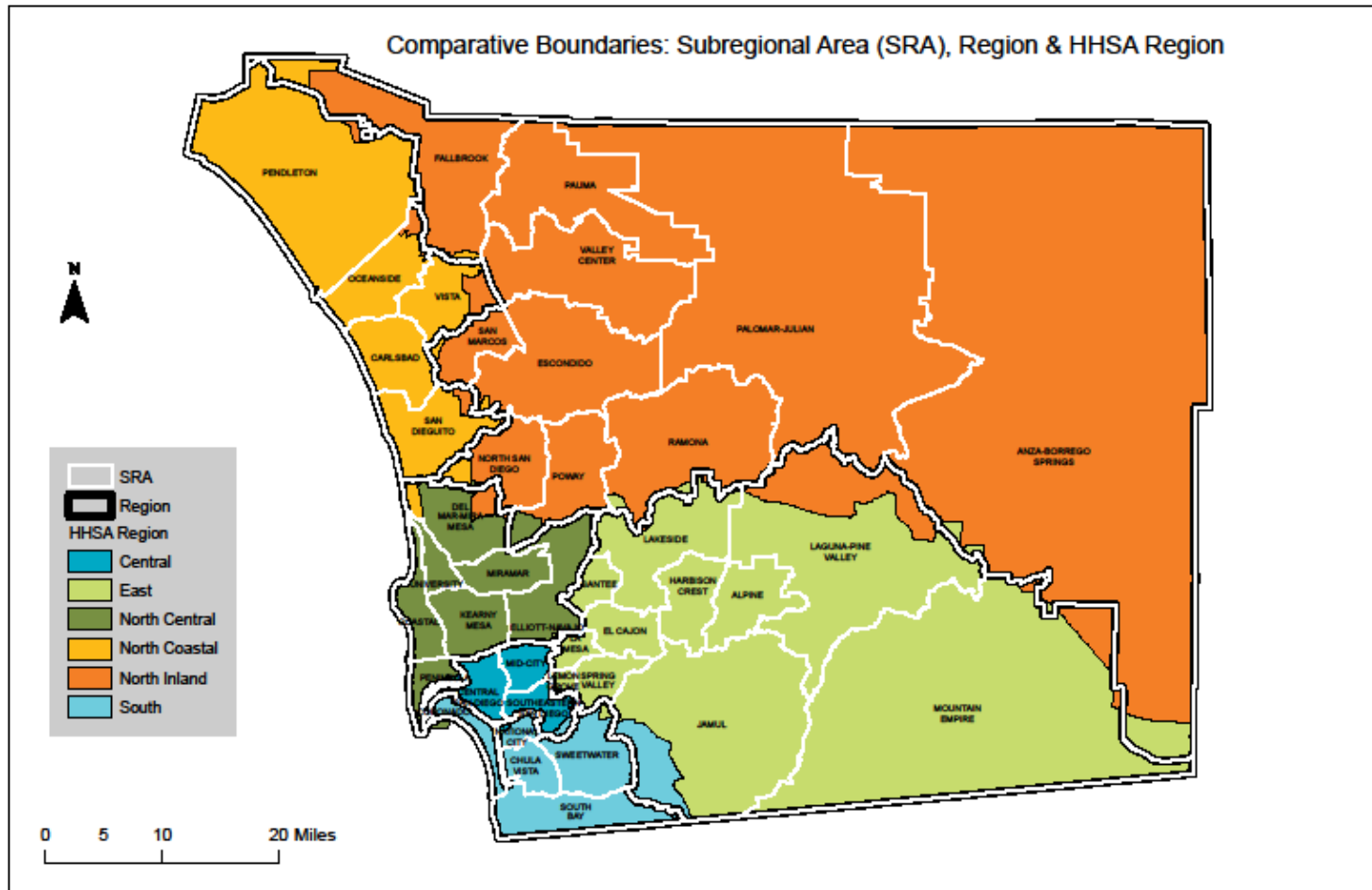
SUICIDES BY COUNTY REGION



COUNTY OF SAN DIEGO HHSA REGIONS



LIVE WELL
SAN DIEGO



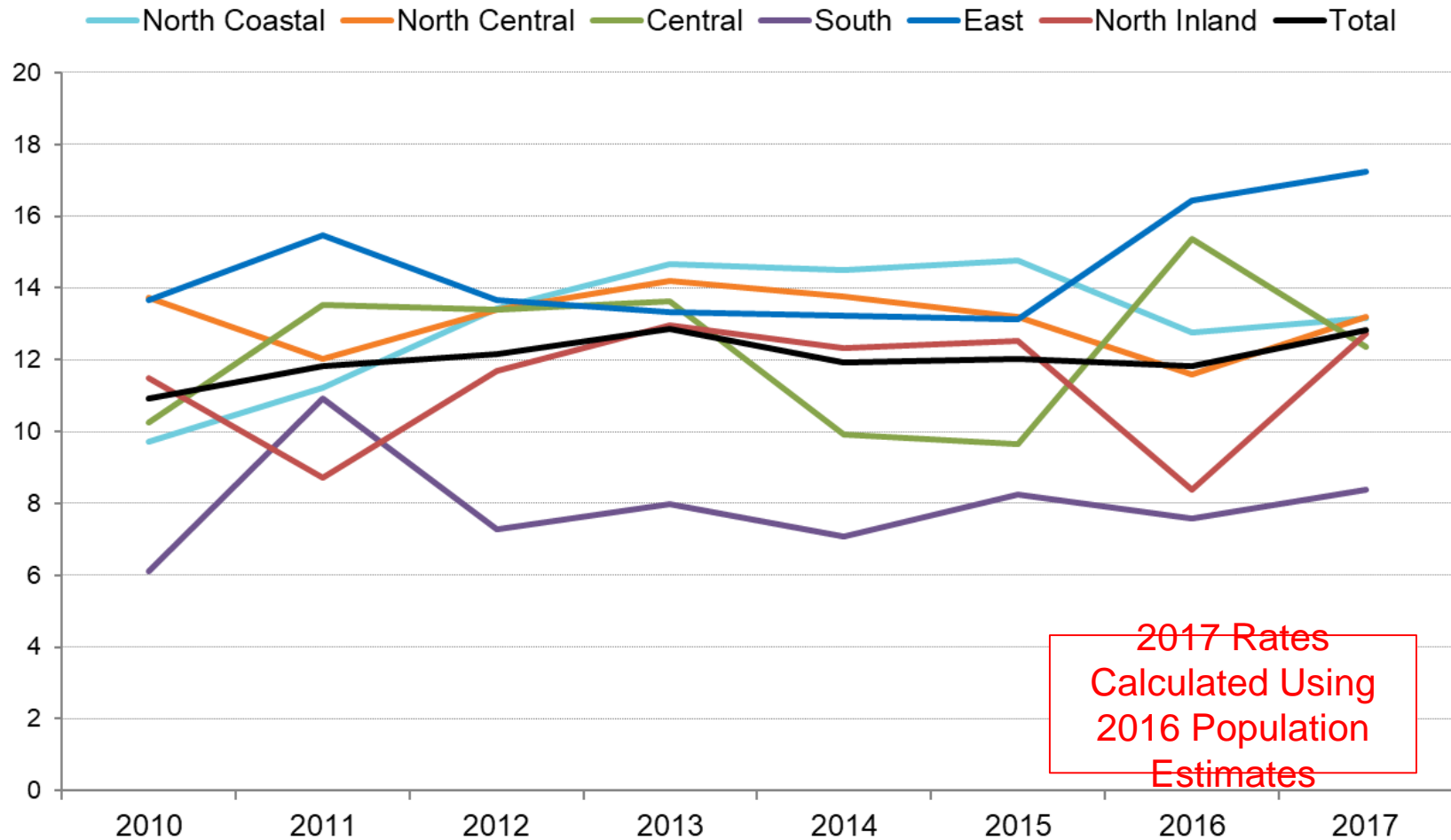
Map by County of San Diego, Emergency Medical Services. Contact: Isabel Corcos or Leslie Ray, 619.285.6429
Map Date: May, 2014



SUICIDE RATE* BY COUNTY REGION, 2010 - 2017



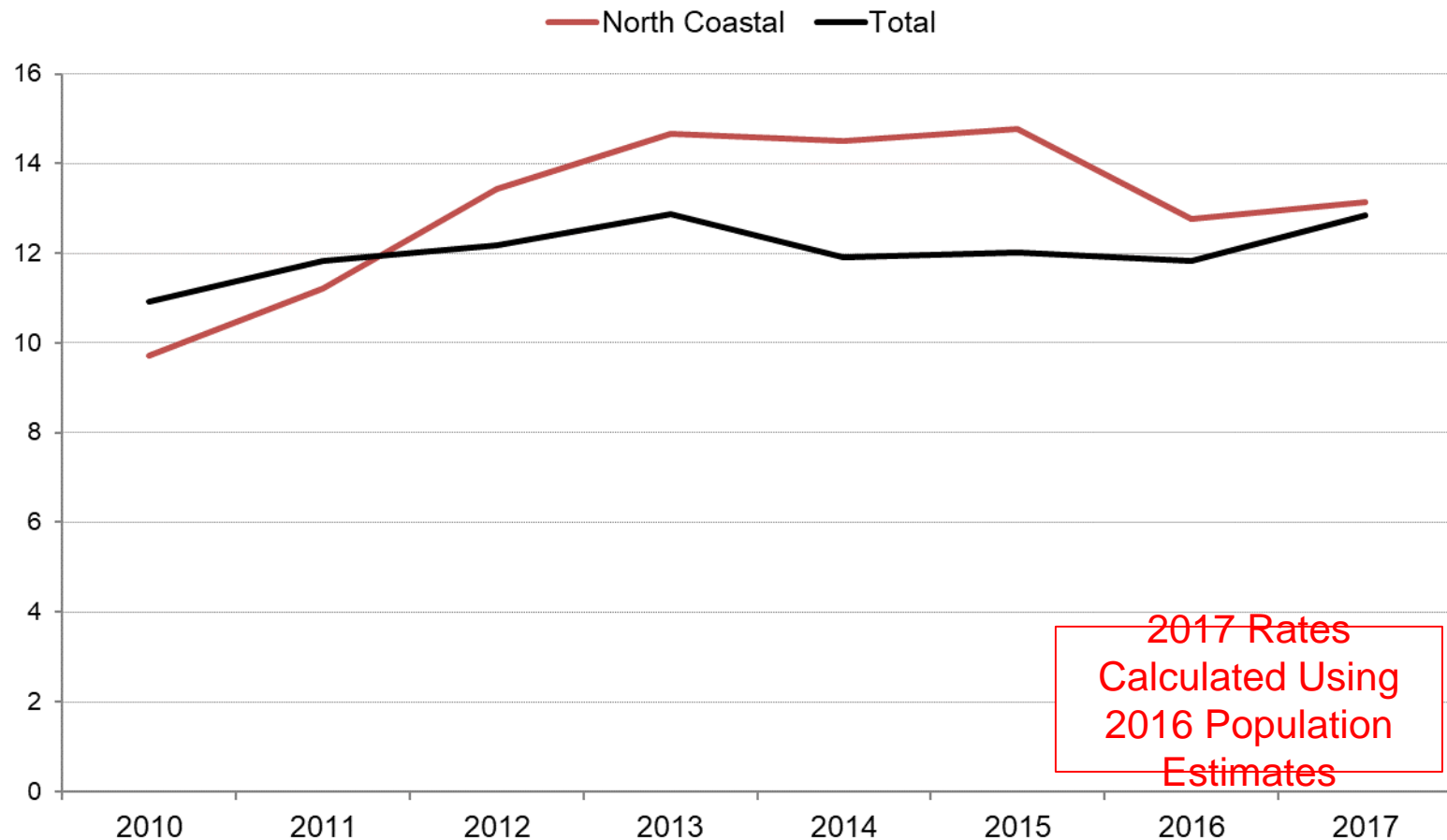
LIVE WELL
SAN DIEGO



Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

*Rates per 100,000 people

NORTH COASTAL REGION, 2010 - 2017



Note: Total rates do not match other rates in this presentation because this table/figure only includes suicides in which a zip code of residence was known

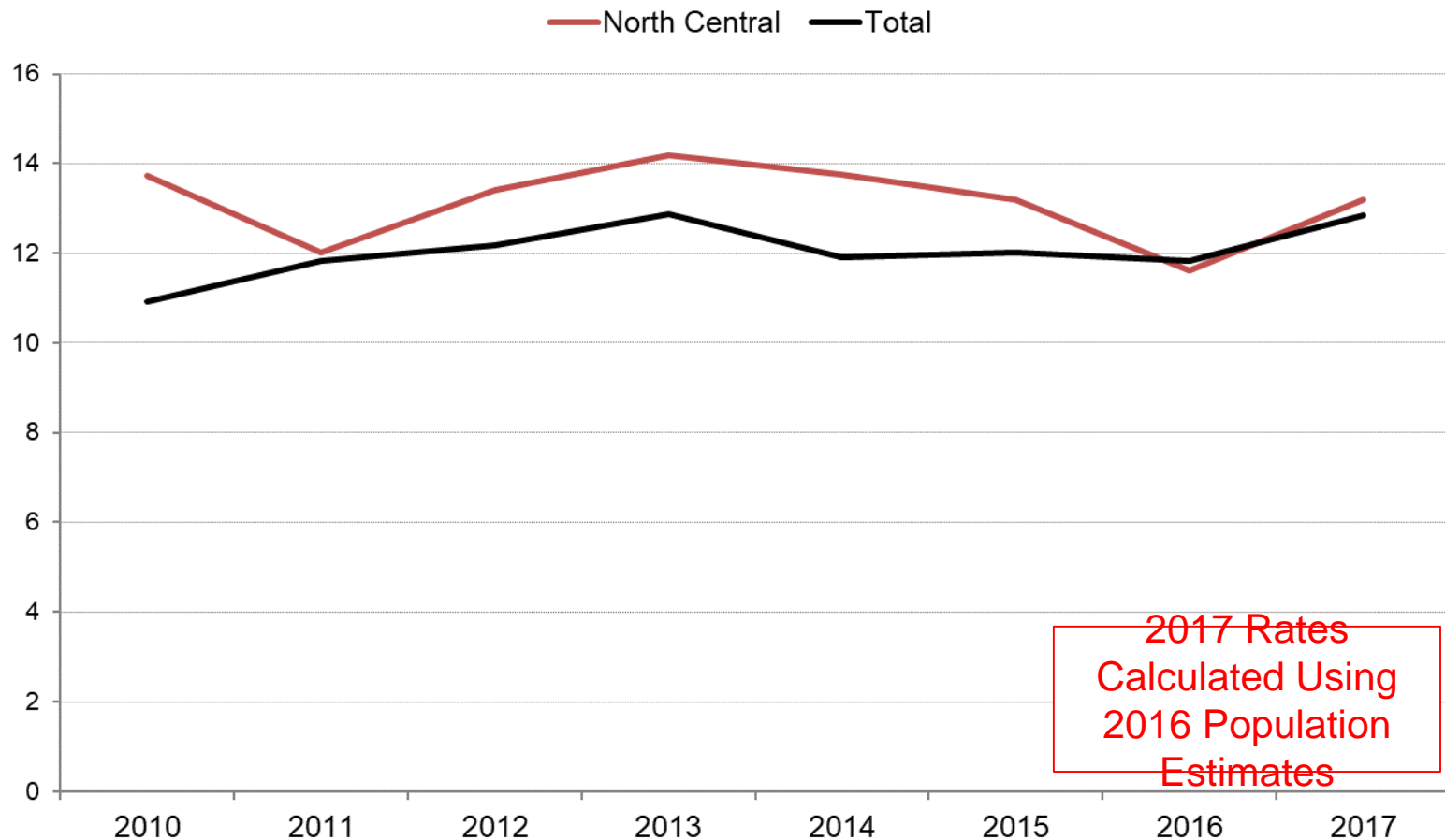
Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

Rates per 100,000 people

NORTH CENTRAL REGION, 2010 - 2017



LIVE WELL
SAN DIEGO

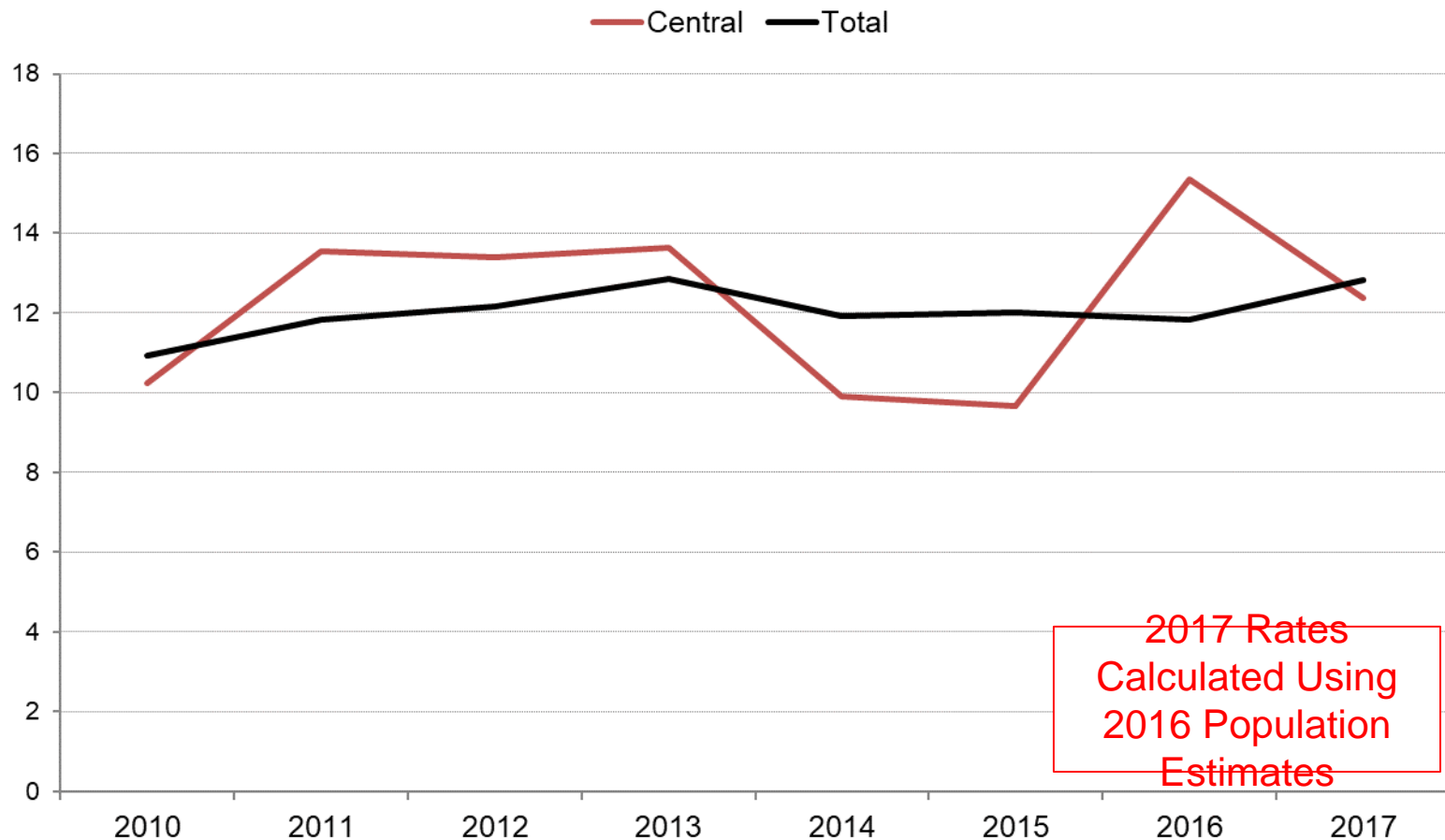


Note: Total rates do not match other rates in this presentation because this table/figure only includes suicides in which a zip code of residence was known

Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

Rates per 100,000 people

CENTRAL REGION, 2010 - 2017

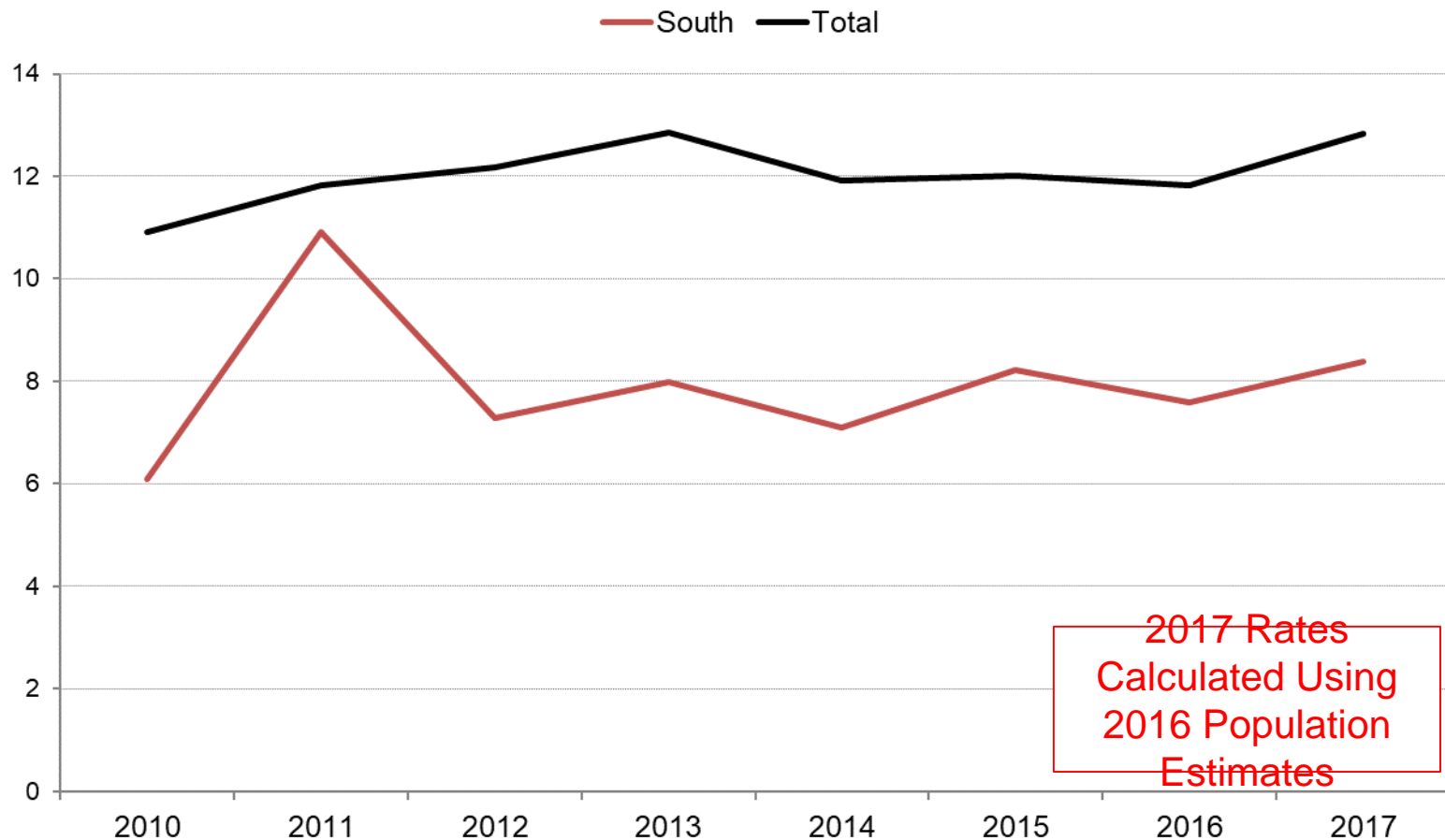


Note: Total rates do not match other rates in this presentation because this table/figure only includes suicides in which a zip code of residence was known

Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

Rates per 100,000 people

SOUTH REGION, 2010 - 2017

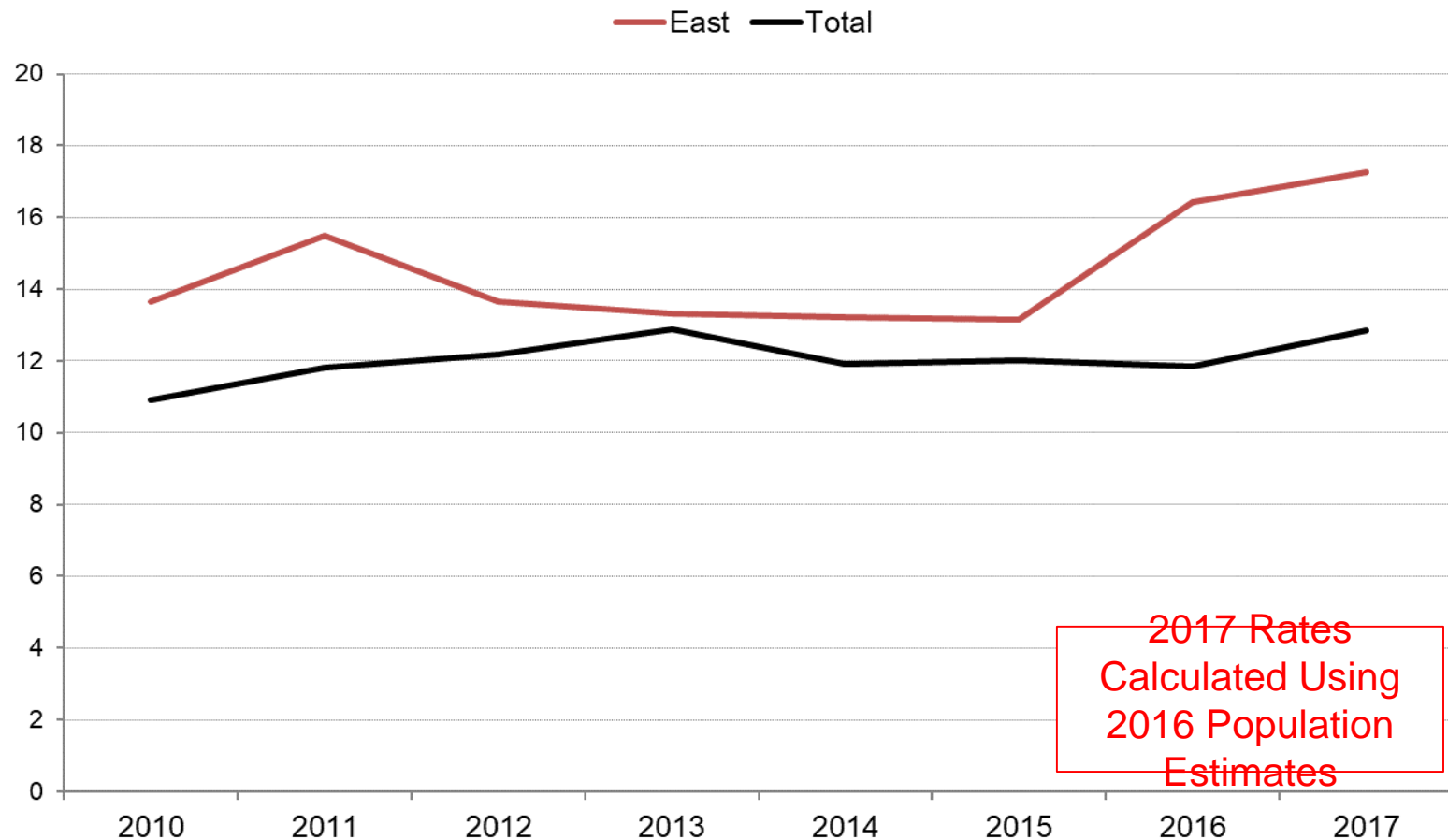


Note: Total rates do not match other rates in this presentation because this table/figure only includes suicides in which a zip code of residence was known

Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

Rates per 100,000 people

EAST REGION, 2010 - 2017

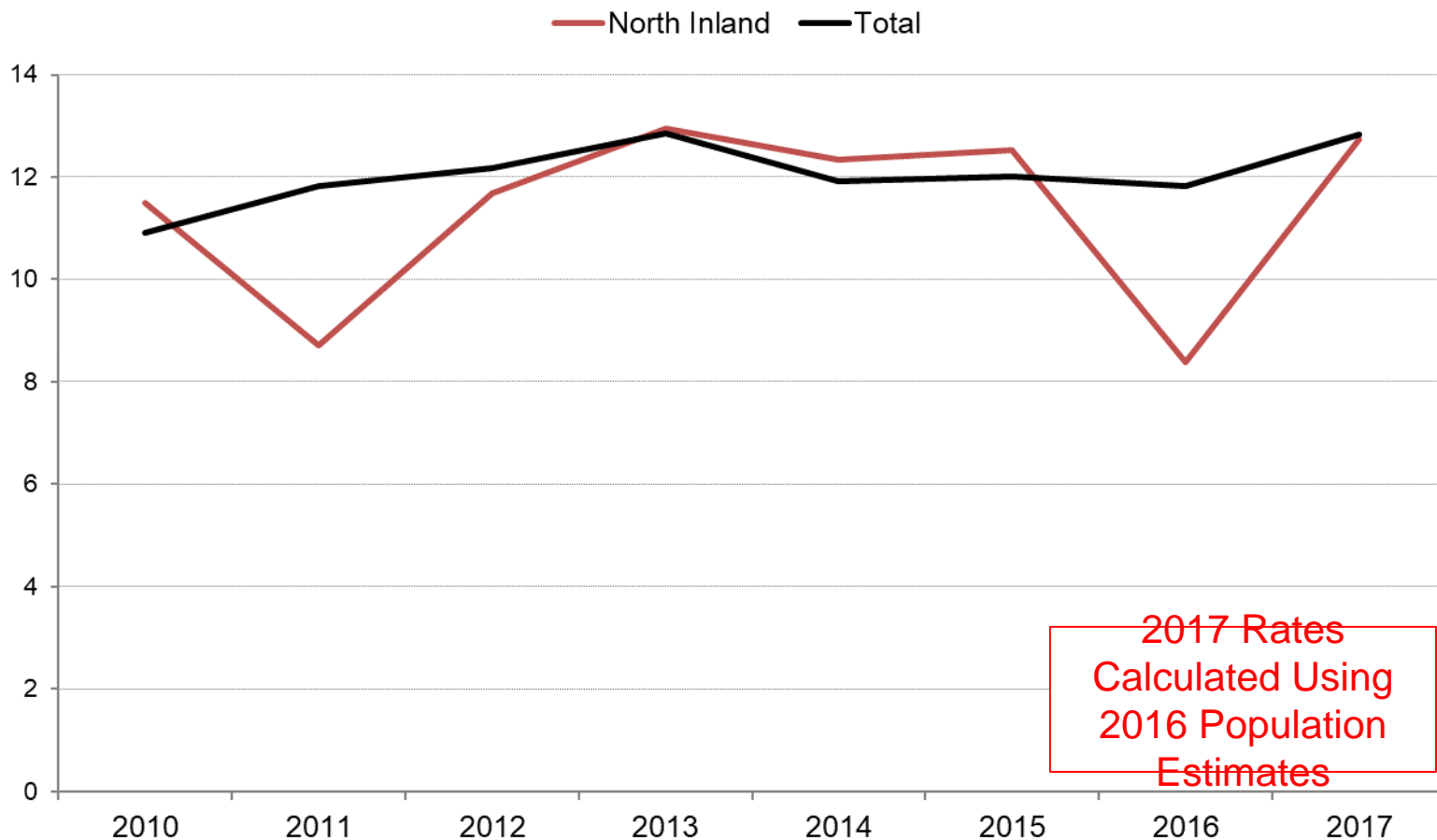


Note: Total rates do not match other rates in this presentation because this table/figure only includes suicides in which a zip code of residence was known

Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

Rates per 100,000 people

NORTH INLAND REGION, 2010 - 2017



Note: Total rates do not match other rates in this presentation because this table/figure only includes suicides in which a zip code of residence was known

Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

Rates per 100,000 people

SUICIDE RATE* BY COUNTY REGION, 2010 - 2017



2017 Rates
Calculated Using
2016 Population
Estimates

	2010	2011	2012	2013	2014	2015	2016	2017
North Coastal	9.7	11.2	13.4	14.7	14.5	14.8	12.8	13.1
North Central	13.7	12.0	13.4	14.2	13.8	13.2	11.6	13.2
Central	10.3	13.5	13.4	13.6	9.9	9.7	15.4	12.4
South	6.1	10.9	7.3	8.0	7.1	8.2	7.6	8.4
East	13.7	15.5	13.7	13.3	13.2	13.1	16.4	17.3
North Inland	11.5	8.7	11.7	12.9	12.3	12.5	8.4	12.7
Total	10.9	11.8	12.2	12.9	11.9	12.0	11.8	12.8

Note: Total rates do not match other rates in this presentation because this table/figure only includes suicides in which a zip code of residence was known

Sources: County of San Diego, Health and Human Services Agency, Emergency Medical Services, Medical Examiner Database, 2000 – 2017. Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File 1999-2017. CDC WONDER On-line Database. U.S. Census Bureau, 2007-2017 American Community Survey.

*Rates per 100,000 people

2017 IN SUMMARY



LIVE WELL
SAN DIEGO

- After a distinct period of increased suicide in San Diego County (2006 – 2013), the annual suicide rate has remained steady from 2013 to 2017.
- In 2017, there were 7 times as many suicides in the County as there were homicides.
- There were about three and a half times as many male suicides as there were female suicides.
- Suicide rates generally increase with age.
- We have seen a short-term, substantial increase in black male suicides.
 - 160% increase from 2014 to 2017

2017 IN SUMMARY



LIVE WELL
SAN DIEGO

- 57% of all suicides are white males.
- Divorced and widowed males had higher rates of suicide.
- The San Diego County suicide rate is about the same as the national rate but is higher than the California state rate.
- The East Region has the highest suicide rate and the South Region has the lowest.

WHERE DID THE ONE-YEAR INCREASE IN SUICIDES OCCUR?



LIVE WELL
SAN DIEGO

The one year (2016 – 2017) increase in suicide appears to have occurred in the following populations

- Males
- Whites (men) and Blacks (men)
- Divorced (men) and Single (men)
- Those working in “professional” and “office/clerical” settings
- Those aged 65 to 84 years
 - Especially the 70 to 79 age group, in which the rate more than doubled
- Those using firearms
- Those living in the South, East, and North Inland regions of San Diego County



THANK YOU

Joshua.Smith@sdcounty.ca.gov

