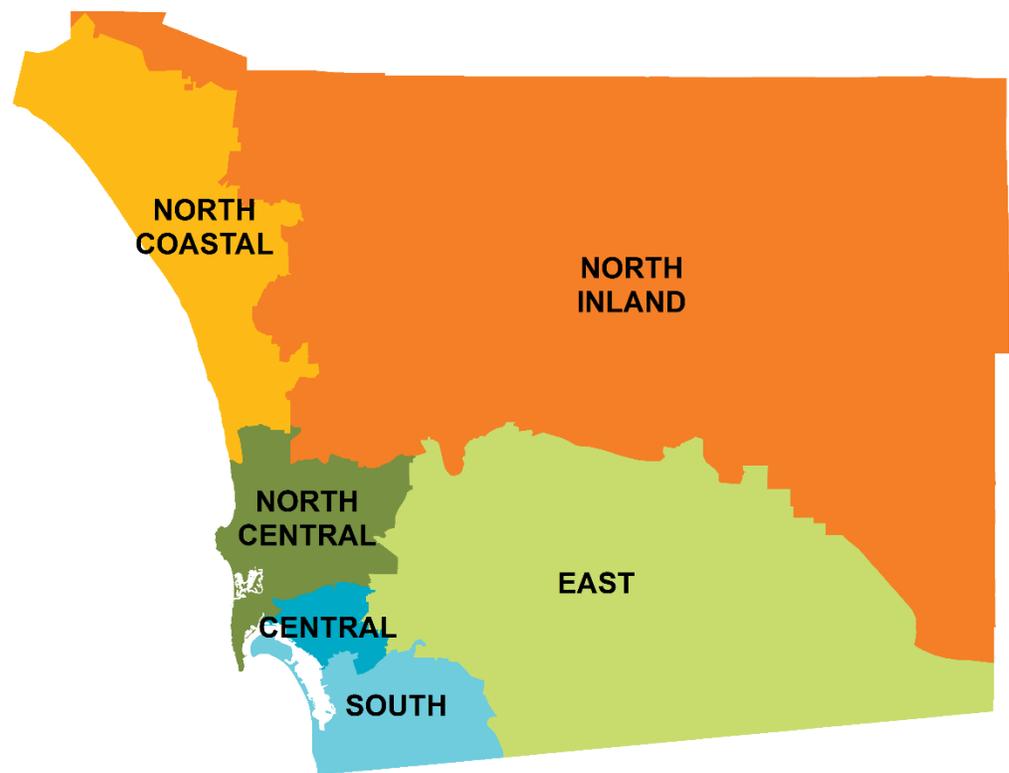


# ALZHEIMER'S DISEASE AND RELATED DEMENTIAS (ADRD) IN SAN DIEGO COUNTY, 2015



MAP ATLAS



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# Geographical Boundaries and Population Estimates Used in This Atlas

San Diego Association of Governments (SANDAG) current population estimates and long range forecasts for San Diego County and its subregional areas (SRAs) were utilized to visually compare estimates across communities. San Diego County has 41 SRAs, which are aggregations of census tracts defined by SANDAG, not the Census Bureau. While the boundaries of many geographical areas, such as cities, change over time, SRA boundaries have remained essentially the same since their formation which allows for meaningful comparisons of time series information because identical areas are being compared.

Additionally, boundary layers from SANGIS, SANDAG's geographic information systems (GIS) team, were used to visualize supervisorial districts and municipalities.

SANDAG can be accessed at <http://www.sandag.org/>.

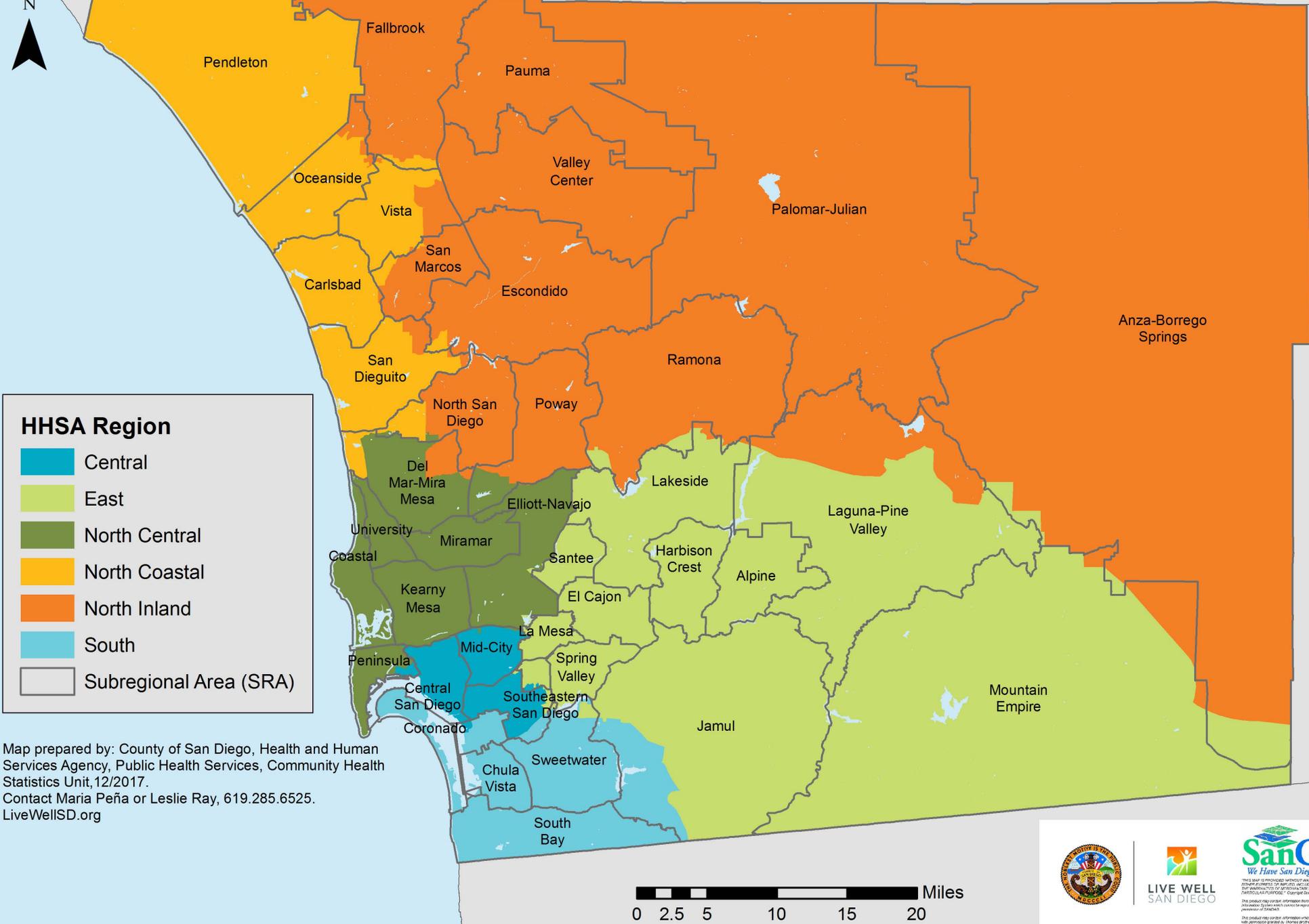
# San Diego County by Health and Human Service Agency (HHSA) Region



**HHSA Region**

- Central
- East
- North Central
- North Coastal
- North Inland
- South
- Subregional Area (SRA)

Map prepared by: County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit, 12/2017.  
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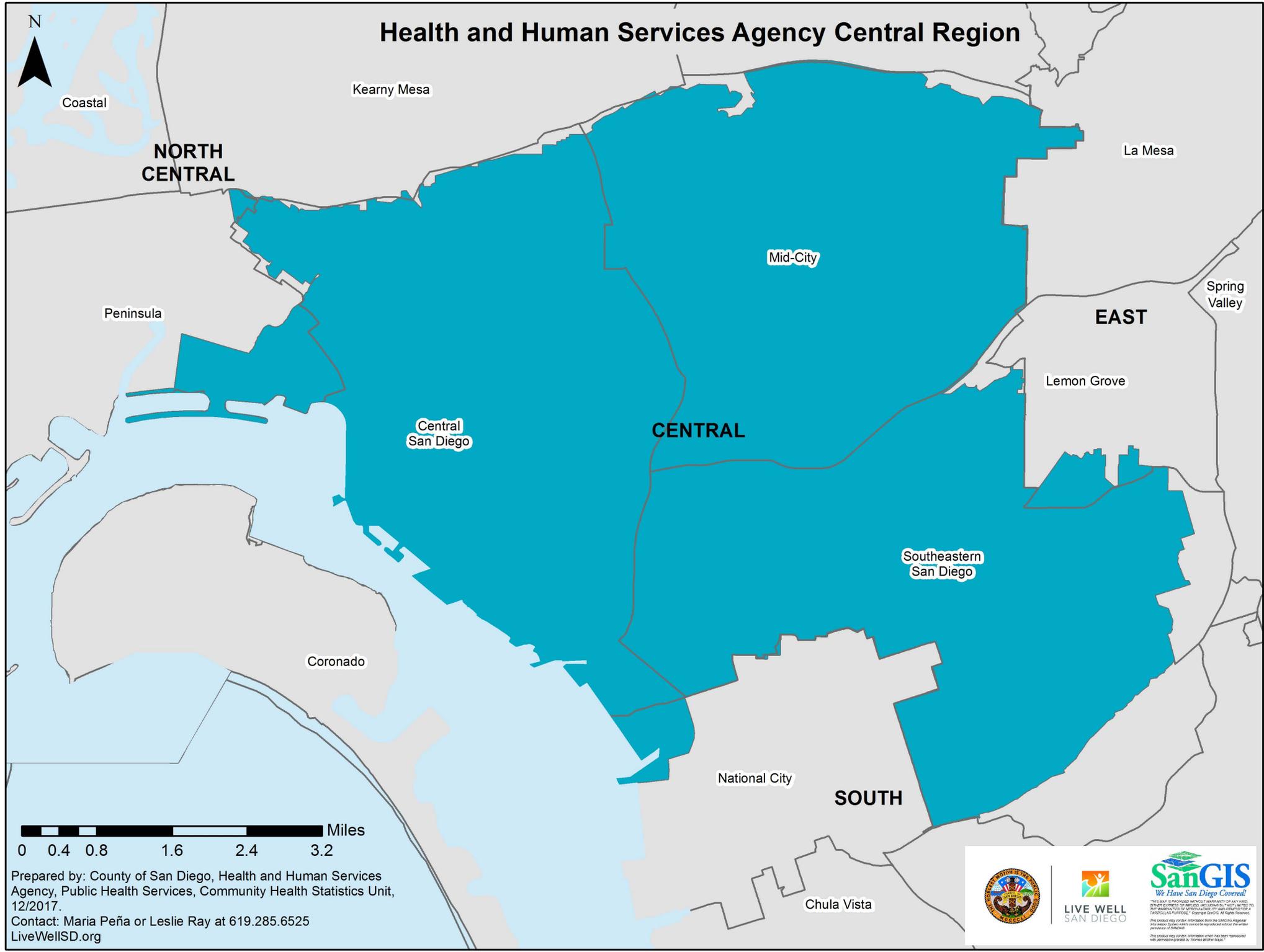


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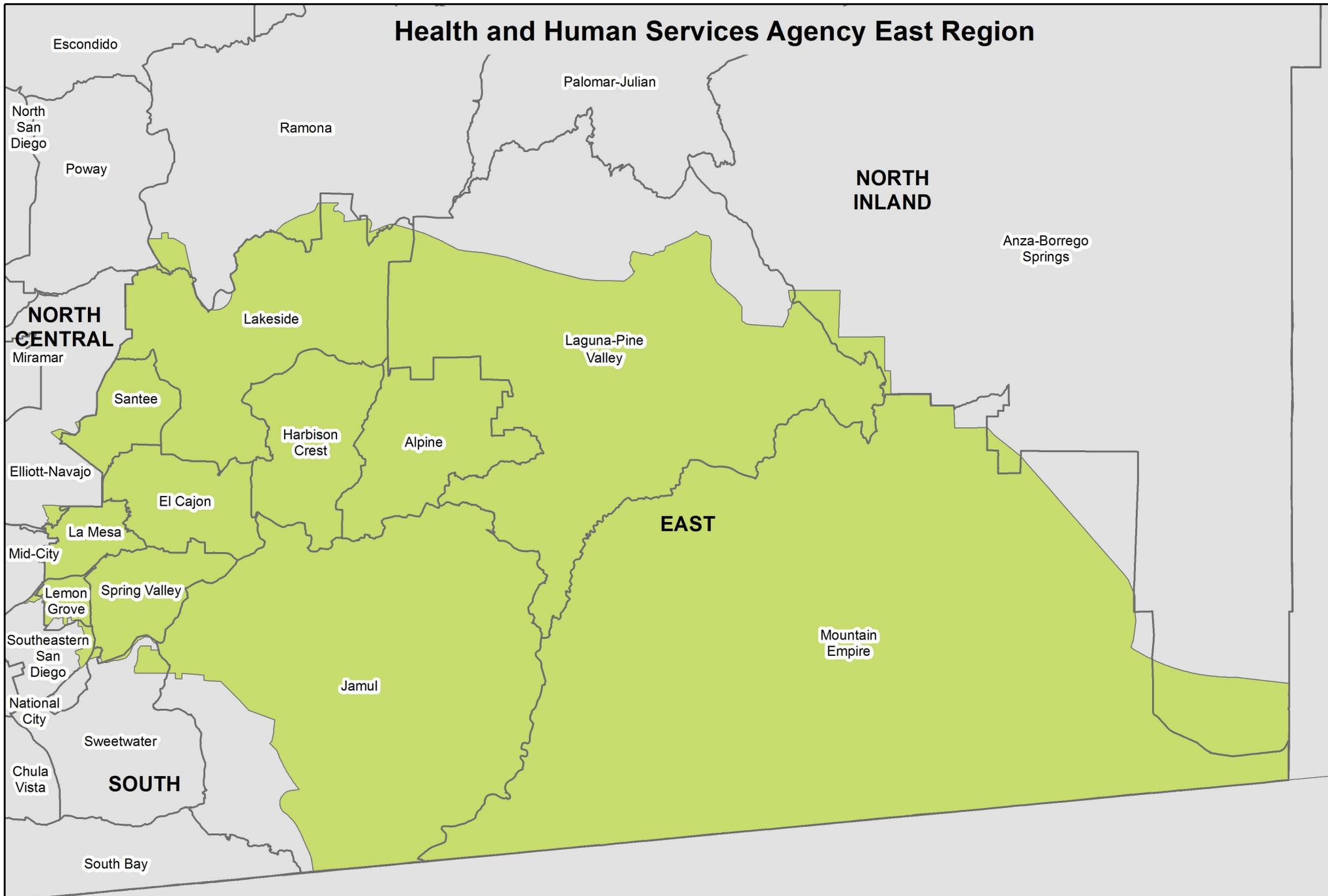
# Health and Human Services Agency Central Region



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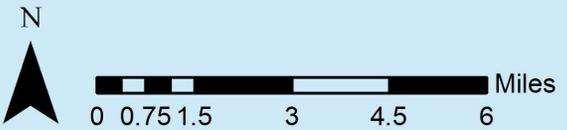
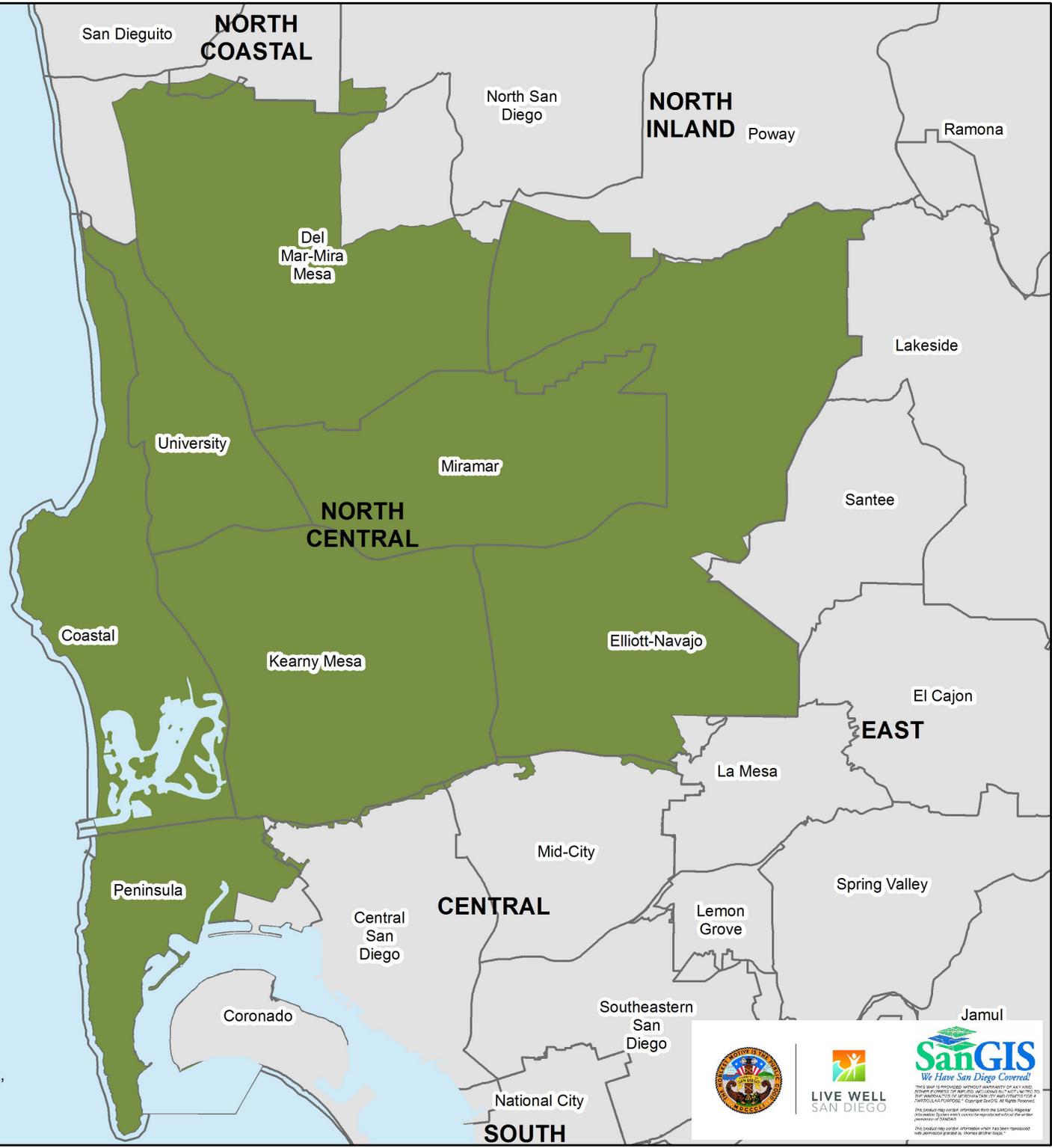
# Health and Human Services Agency East Region



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# Health and Human Services Agency North Central Region



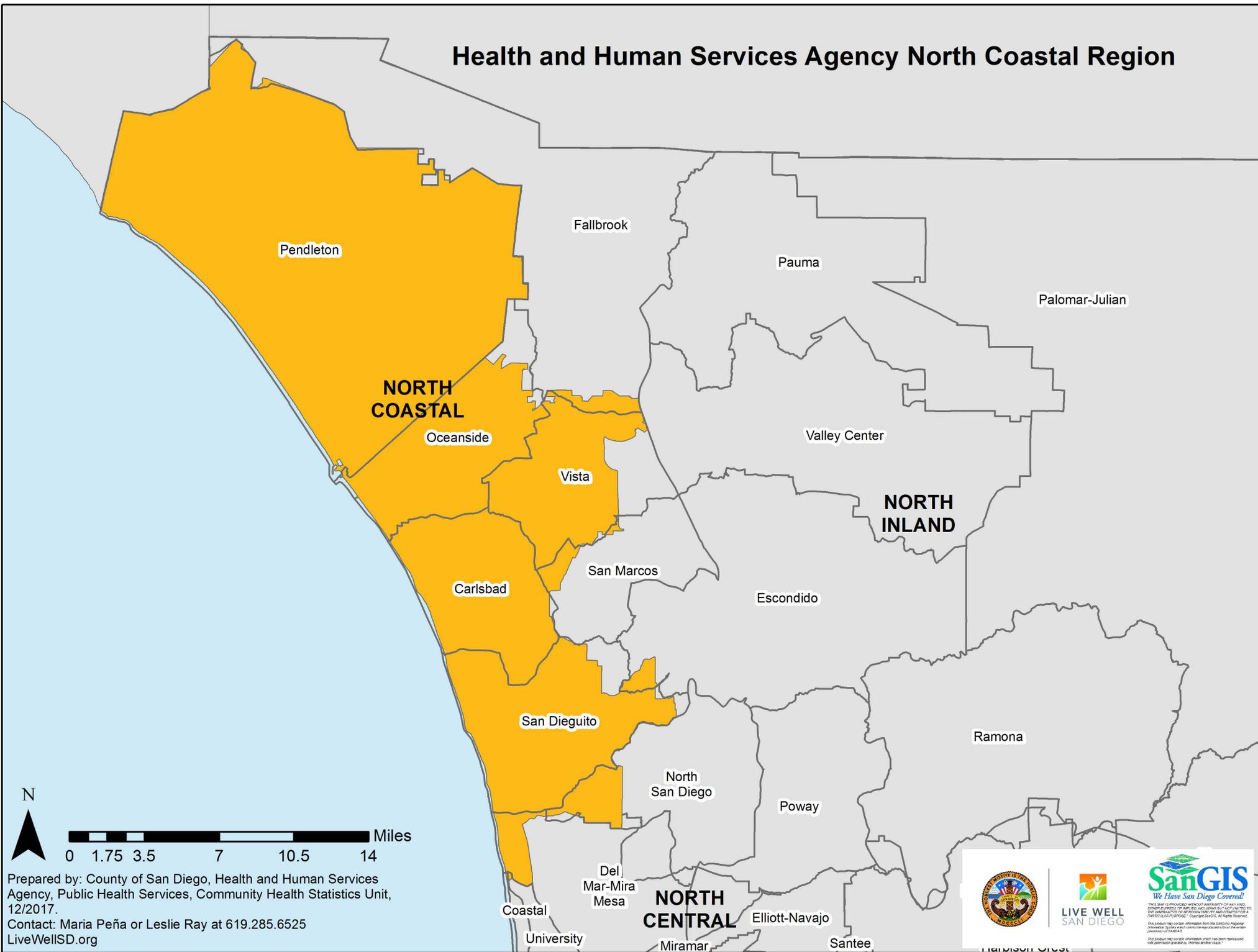
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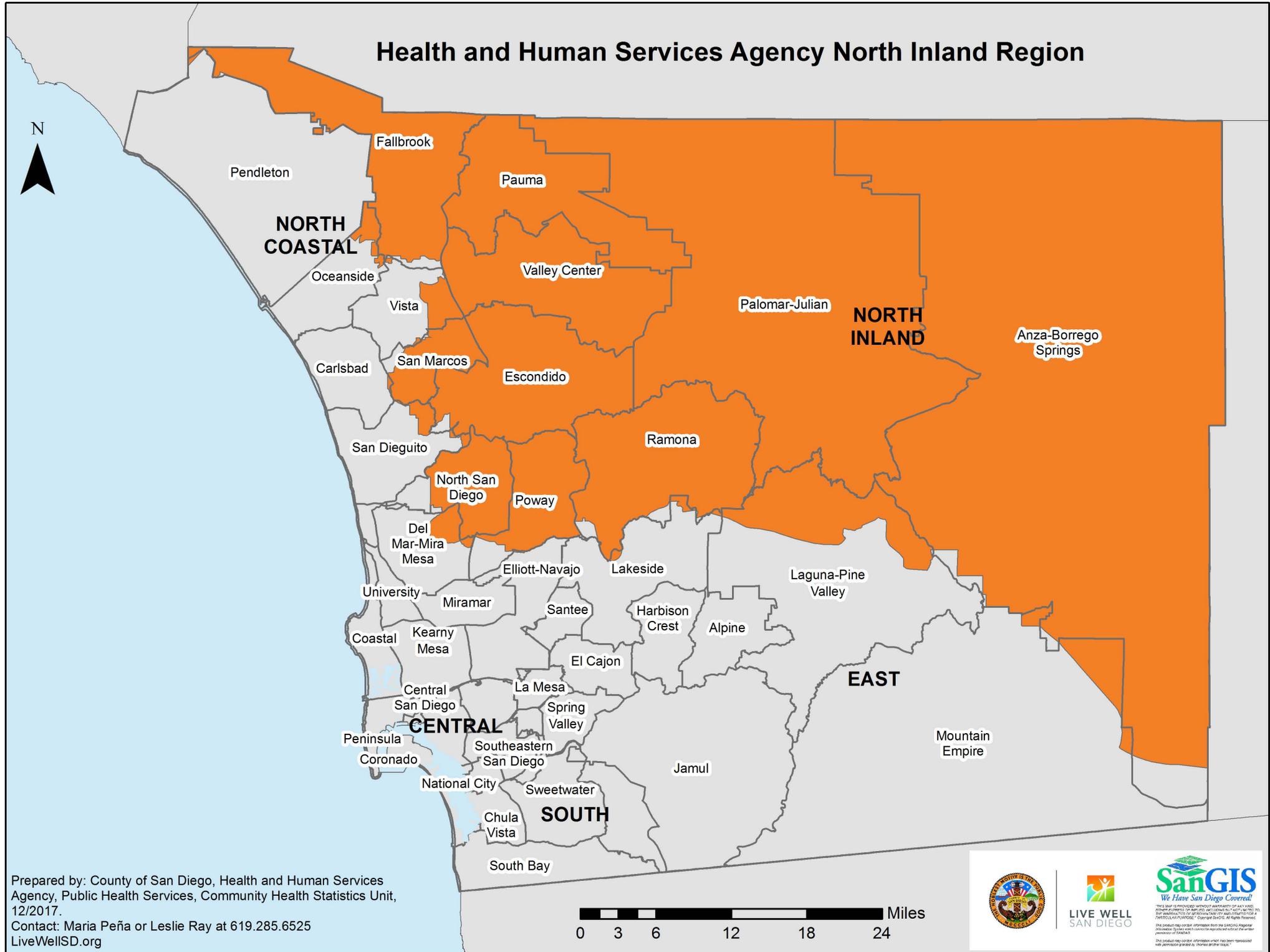
# Health and Human Services Agency North Coastal Region



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# Health and Human Services Agency North Inland Region

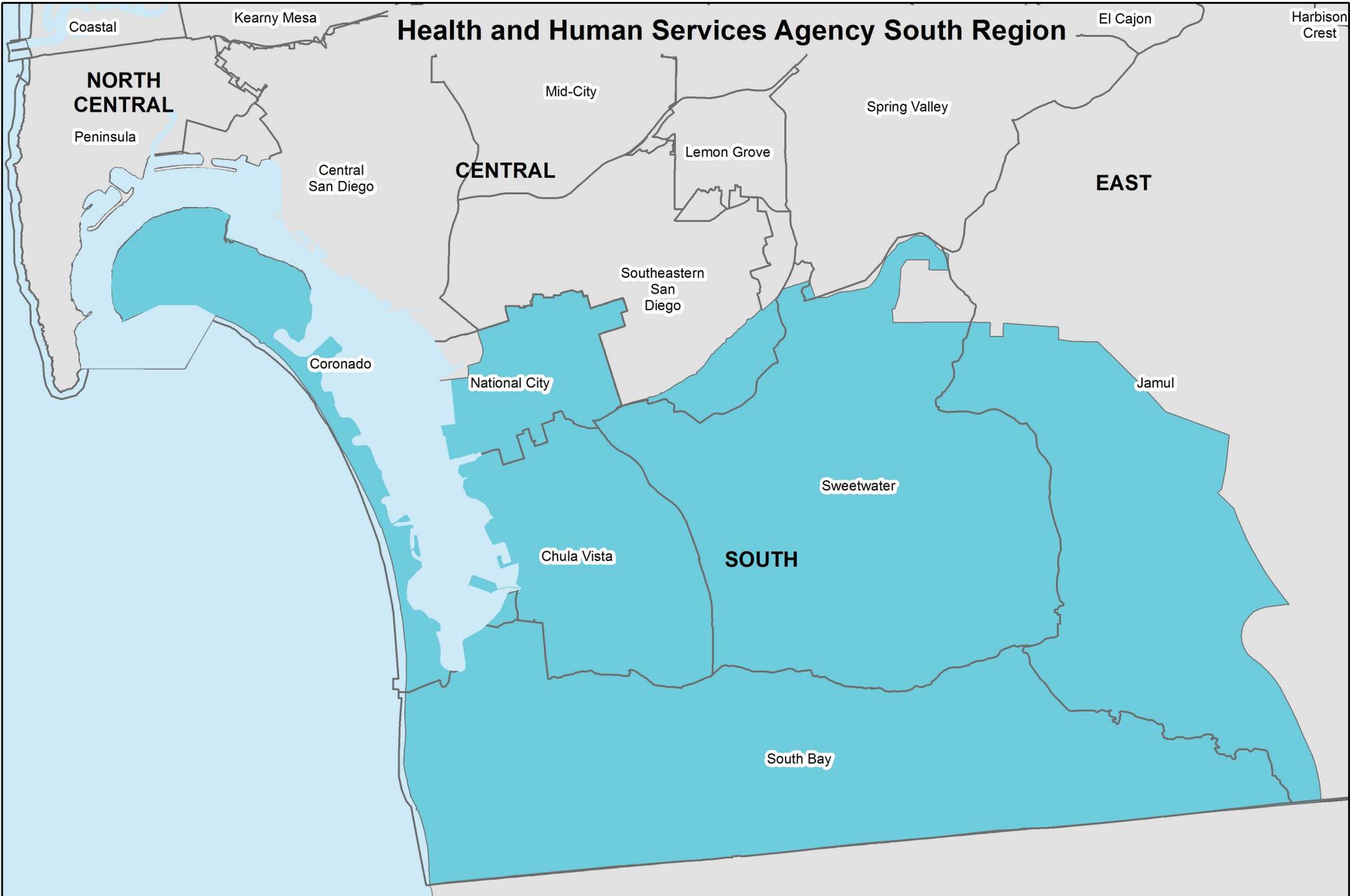


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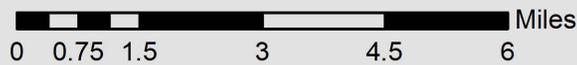


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# Health and Human Services Agency South Region



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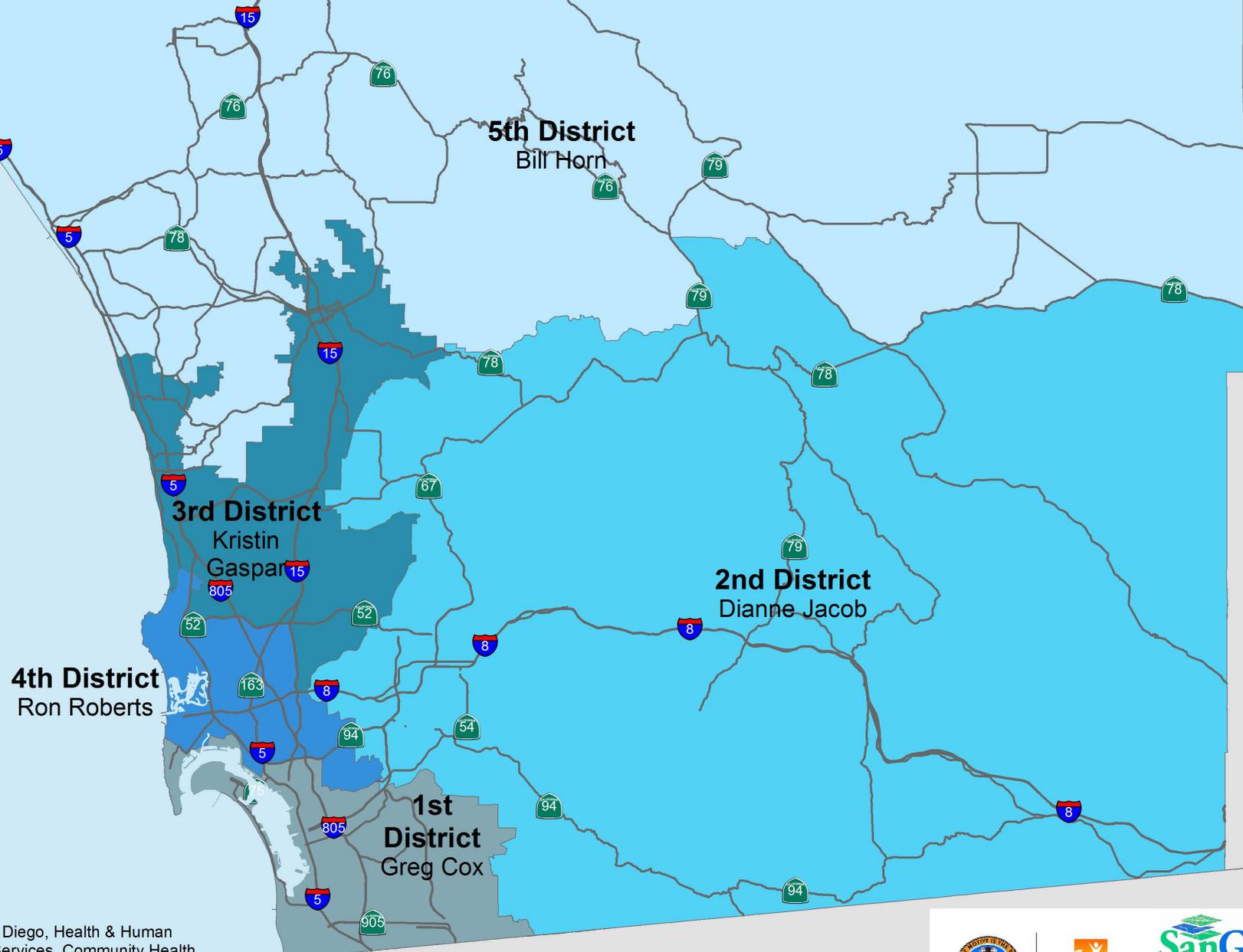
# Municipalities in San Diego County



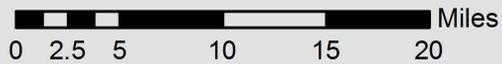
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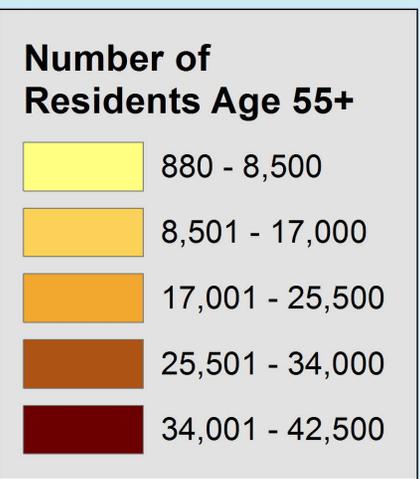
# Supervisory Districts in San Diego County



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# Population Age 55 Years and Older in San Diego County, by Subregional Area, 2015

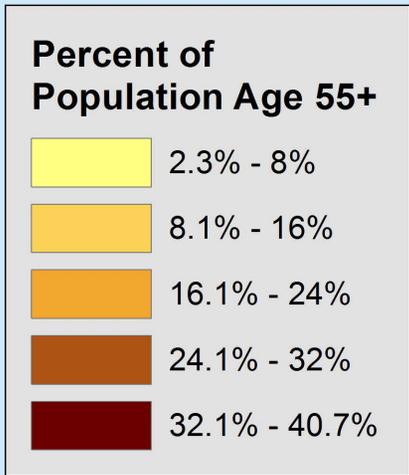


Data Source: SANDAG, Current Population Estimates, Released 03/2017.  
 Map prepared by: County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit, 12/2017.  
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# Percent of Total Population Age 55 Years and Older in San Diego County, by Subregional Area, 2015



Data Source: SANDAG, Current Population Estimates, Released 03/2017.  
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# Disability and Health Insurance Coverage Among San Diego County's Older Adult Population

The American Community Survey (ACS) is the largest household survey conducted by the U.S. Census Bureau. The ACS collects sociodemographic and economic data annually; topics include educational attainment, income, poverty, disability, health insurance, workforce and more to describe the population living in the United States.

The following maps use ACS's data on older adults' cognitive difficulty status, health insurance status, health insurance status by age group, and health insurance by type of health insurance to visualize these variables among the different San Diego County communities.

## *Cognitive Difficulty*

Self-reported, indicated "Yes", to having difficulty remembering, concentrating, or making decisions (DREM) because of a physical, mental, or emotional problem.

## *Health Insurance Coverage*

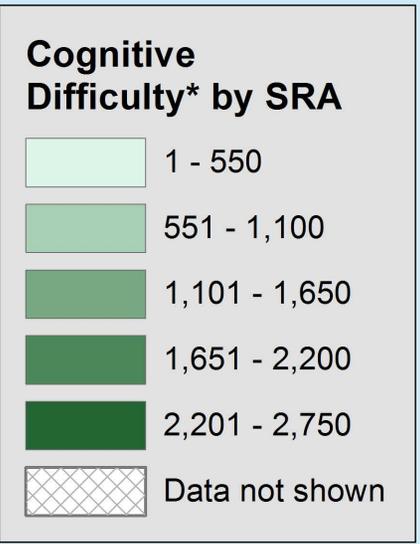
In this section, health insurance status among older adults is explored threefold: (1) health insurance status among older adults ages 55+, (2) health insurance status by age groups 55-64, 65-74, and 75+, and (3) health insurance by type of health insurance coverage among those 65+.

\*NOTE: Pendleton had a low number of seniors ages 65+ (n=15); Data was not shown where data was not available.

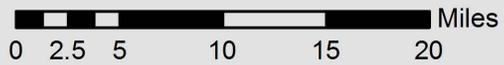
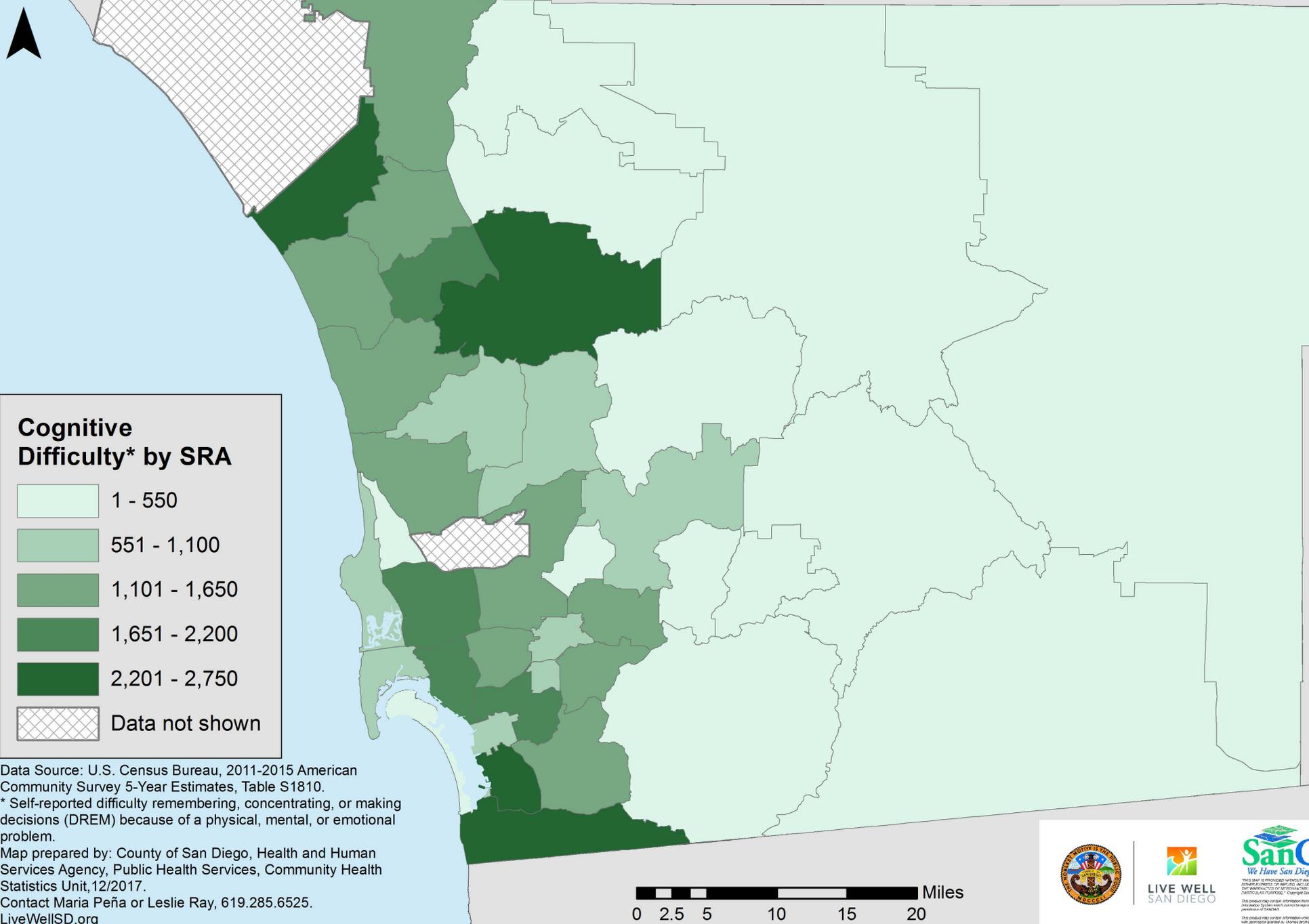
More American Community Survey (ACS) data available online at <https://www.census.gov/>, using American FactFinder query system.

For more information regarding the methodology of the ACS Survey, please go to <https://www.census.gov/acs/www/about/acs-information-guide/flipbook/files/inc/d6425564bc.pdf>.

# Number of Residents, Ages 65+, with Self-Reported Cognitive Difficulty\* by Subregional Area (SRA), 2015



Data Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates, Table S1810.  
 \* Self-reported difficulty remembering, concentrating, or making decisions (DREM) because of a physical, mental, or emotional problem.  
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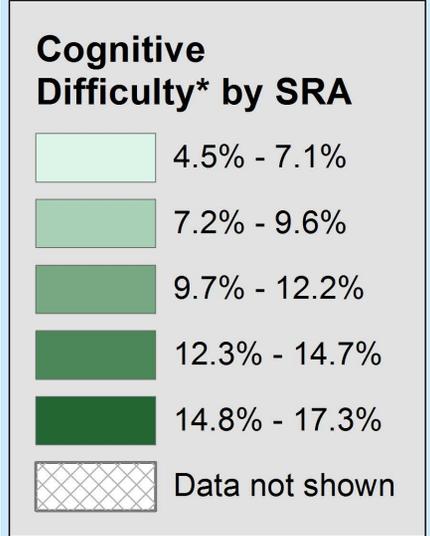


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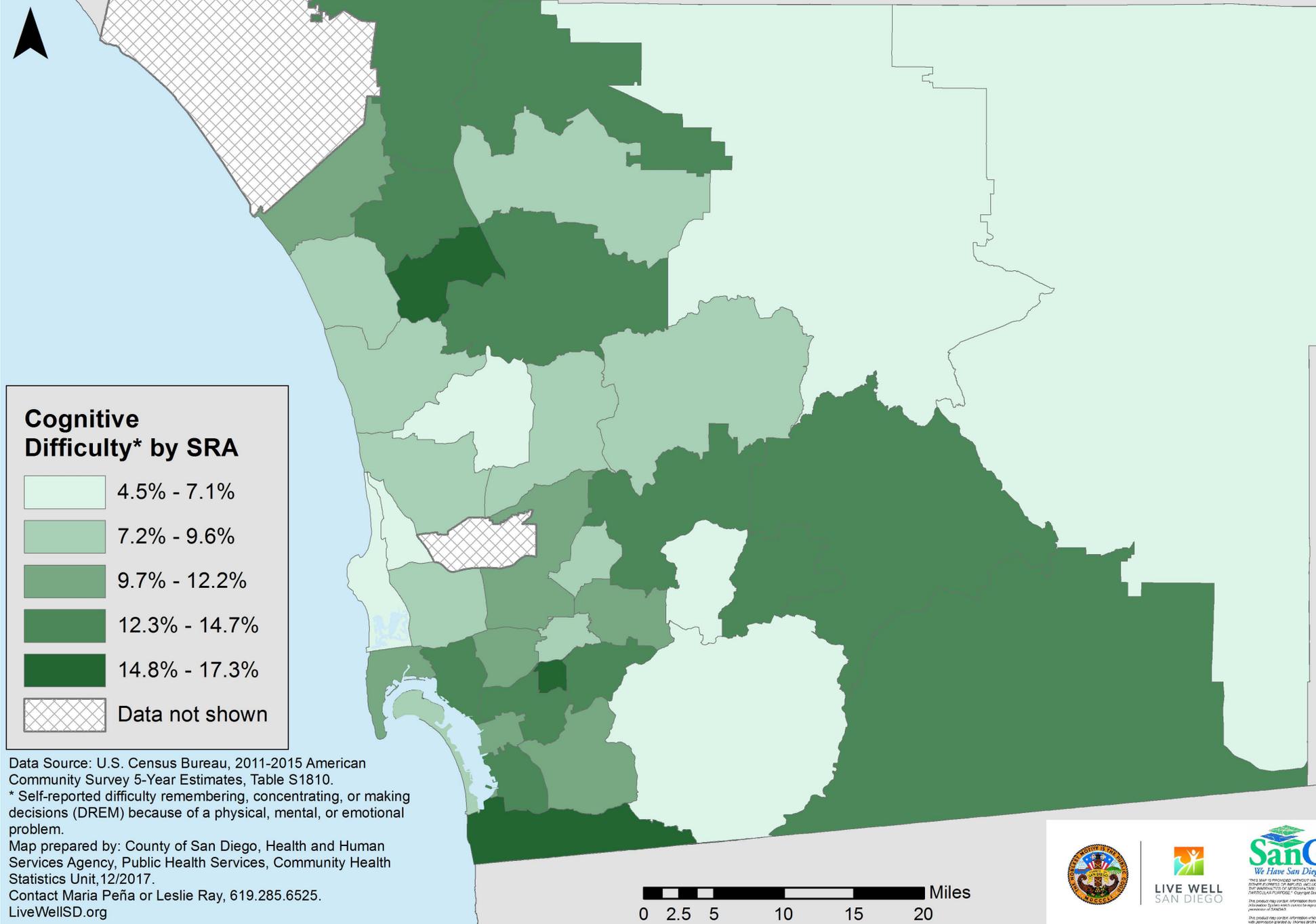
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# Percent of Residents, Ages 65+, with Self-Reported Cognitive Difficulty\* by Subregional Area (SRA), 2015



Data Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates, Table S1810.  
 \* Self-reported difficulty remembering, concentrating, or making decisions (DREM) because of a physical, mental, or emotional problem.  
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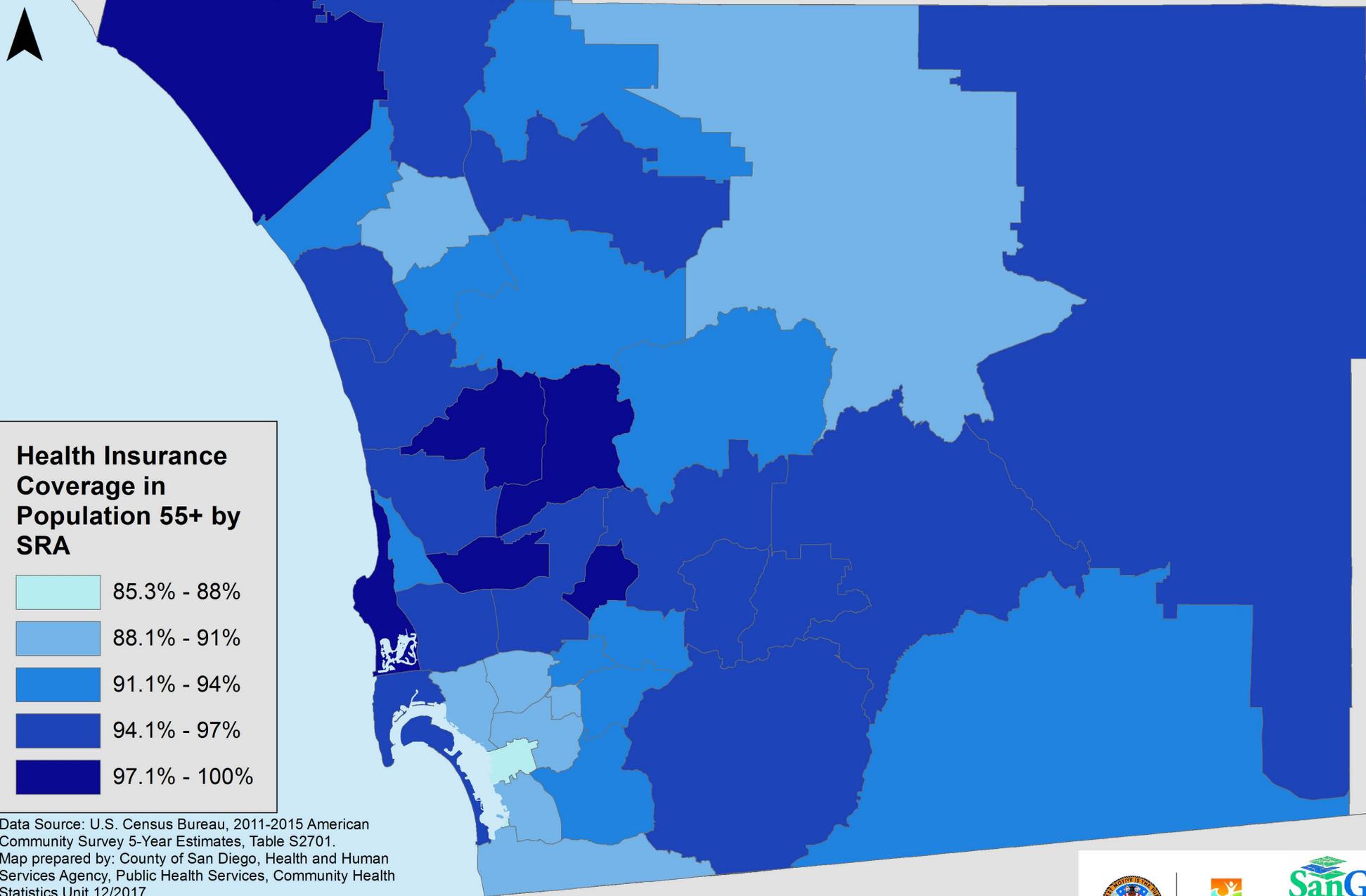
# Percent of the Population 55+ with Health Insurance Coverage by Subregional Area (SRA), 2015



**Health Insurance Coverage in Population 55+ by SRA**

85.3% - 88%
88.1% - 91%
91.1% - 94%
94.1% - 97%
97.1% - 100%

Data Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates, Table S2701.  
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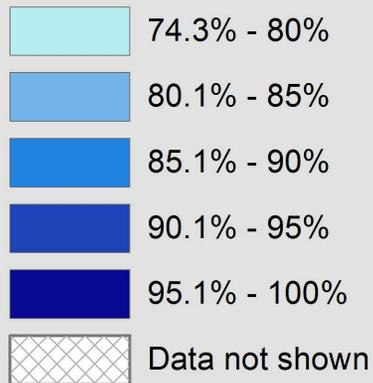


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# Percent of the Population 55-64 with Health Insurance Coverage by Subregional Area (SRA), 2015

N

## Health Insurance Coverage in Population 55-64 by SRA



Data Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates, Table S2701.  
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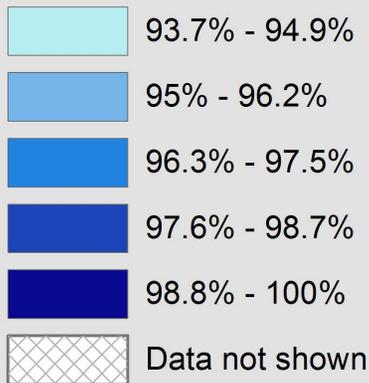


# Percent of the Population 65-74 with Health Insurance Coverage by Subregional Area (SRA), 2015

N



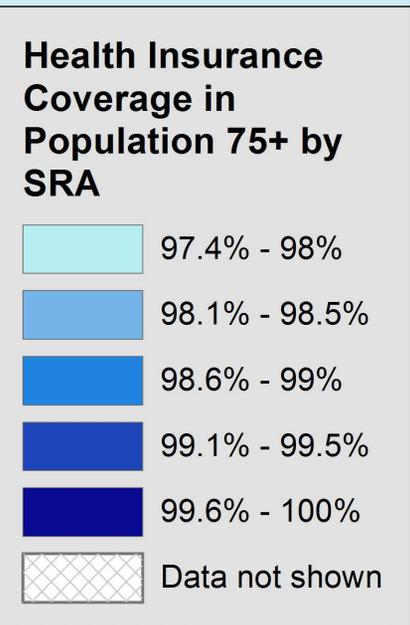
## Health Insurance Coverage in Population 65-74 by SRA



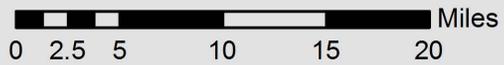
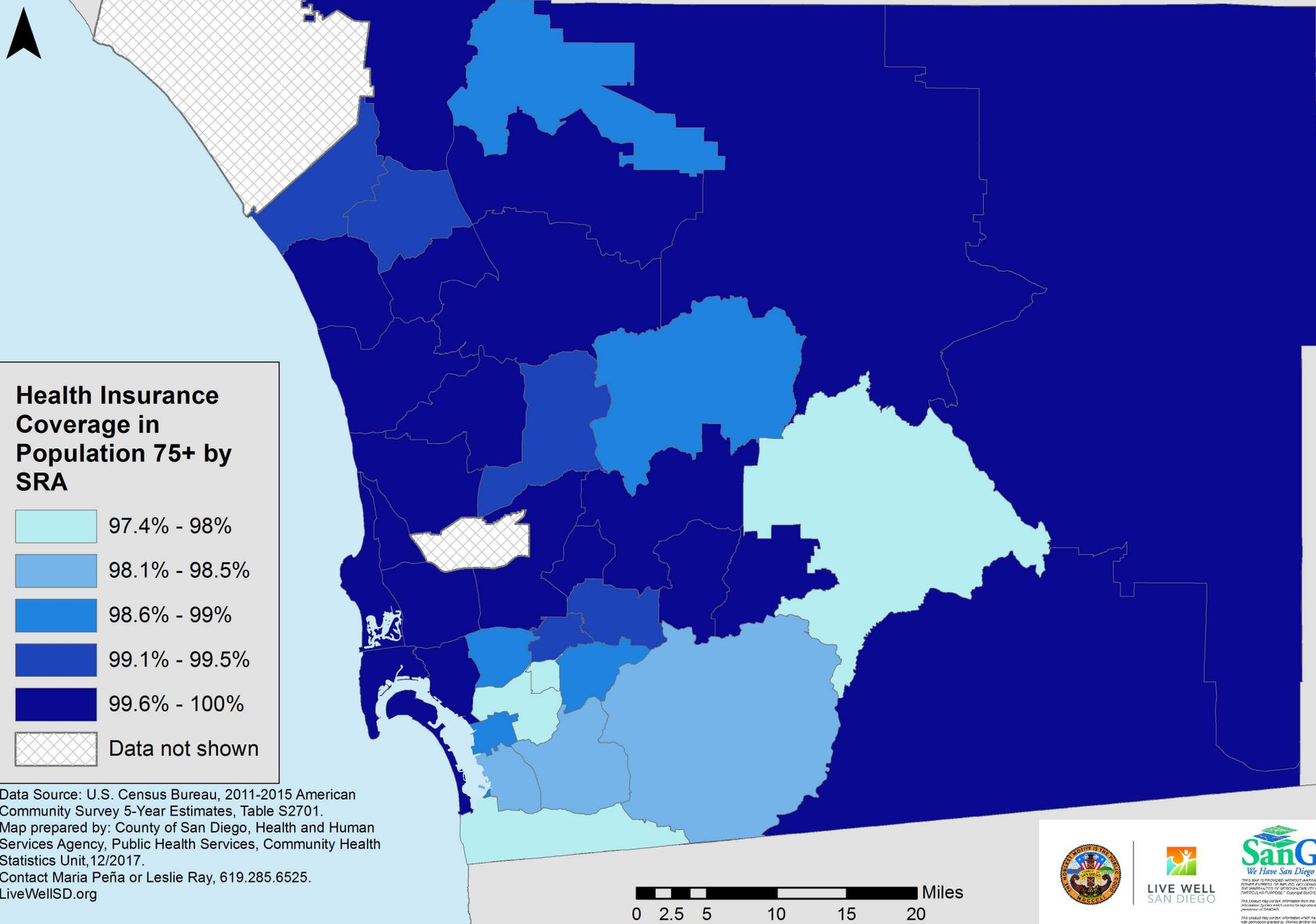
Data Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates, Table S2701.  
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# Percent of the Population 75+ with Health Insurance Coverage by Subregional Area (SRA), 2015



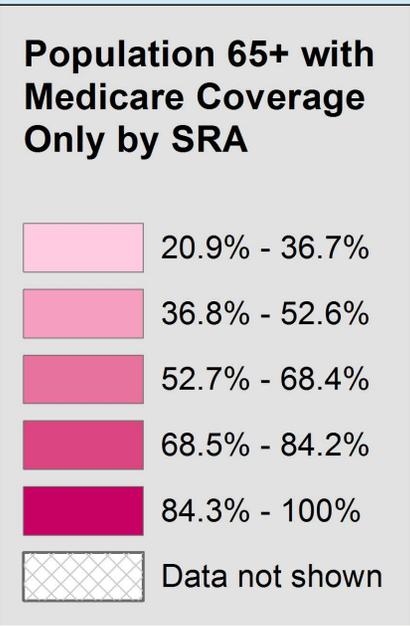
Data Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates, Table S2701.  
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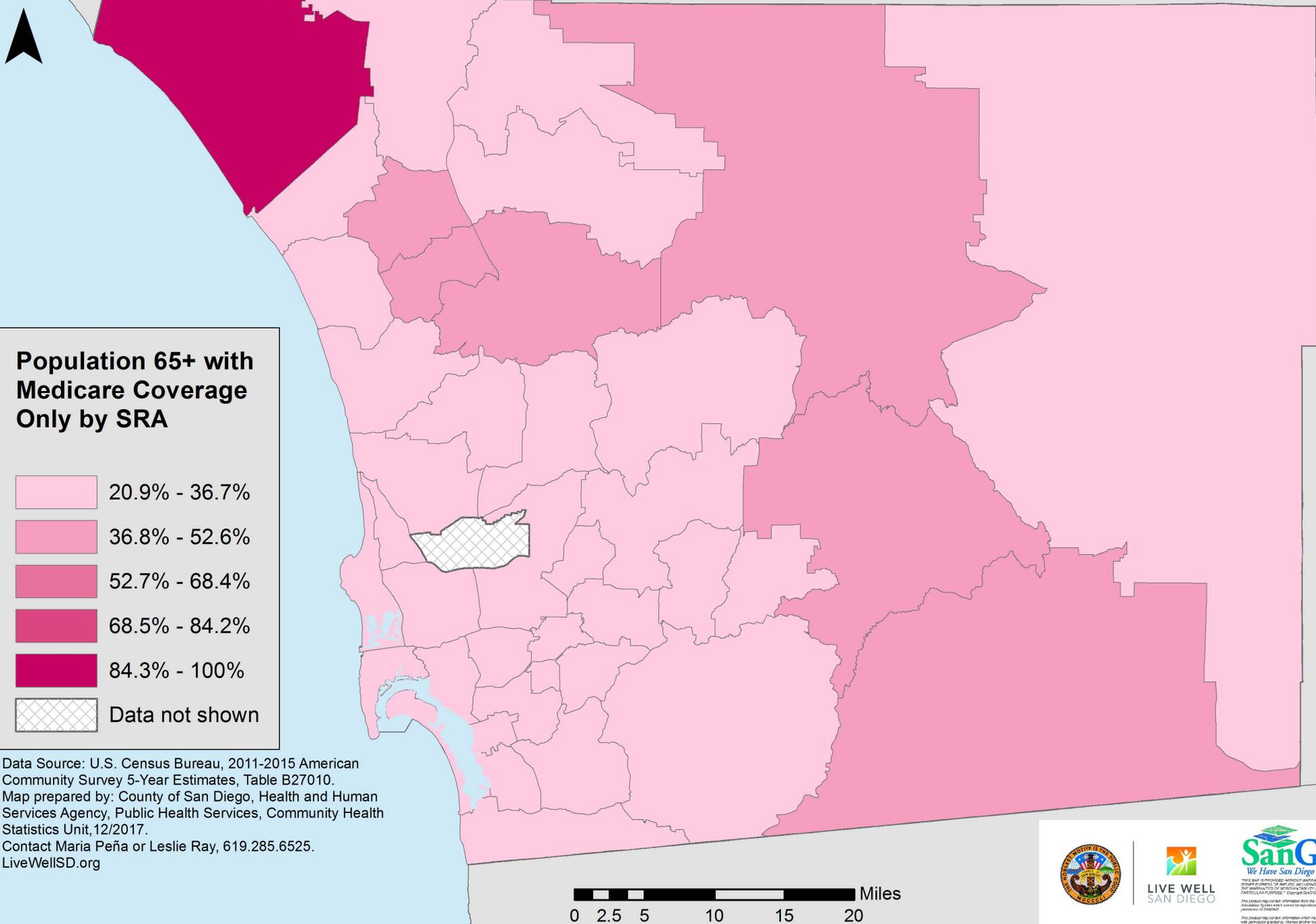



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# Percent of the Population 65+ with Medicare Coverage Only by Subregional Area (SRA), 2015



Data Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates, Table B27010.  
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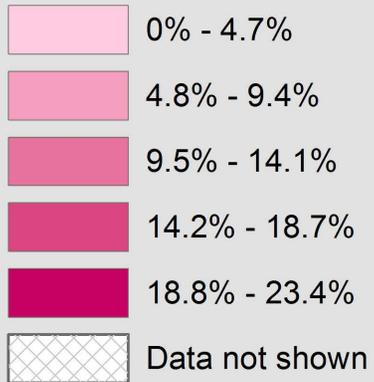


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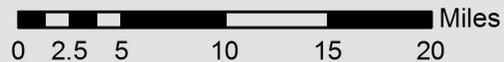
# Percent of the Population 65+ with Employer-Based and Medicare Coverage by Subregional Area (SRA), 2015



## Population 65+ with Employer-Based and Medicare Coverage by SRA



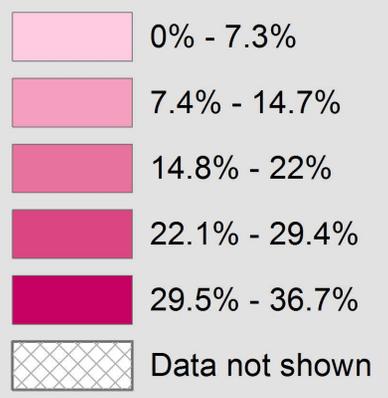
Data Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates, Table B27010.  
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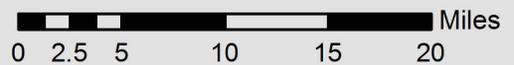
# Percent of the Population 65+ with Direct-Purchase and Medicare Coverage by Subregional Area (SRA), 2015



## Population 65+ with Direct-Purchase and Medicare Coverage by SRA

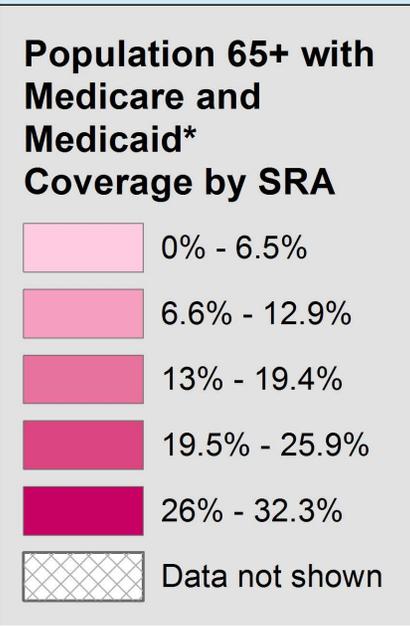


Data Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates, Table B27010.  
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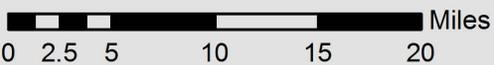
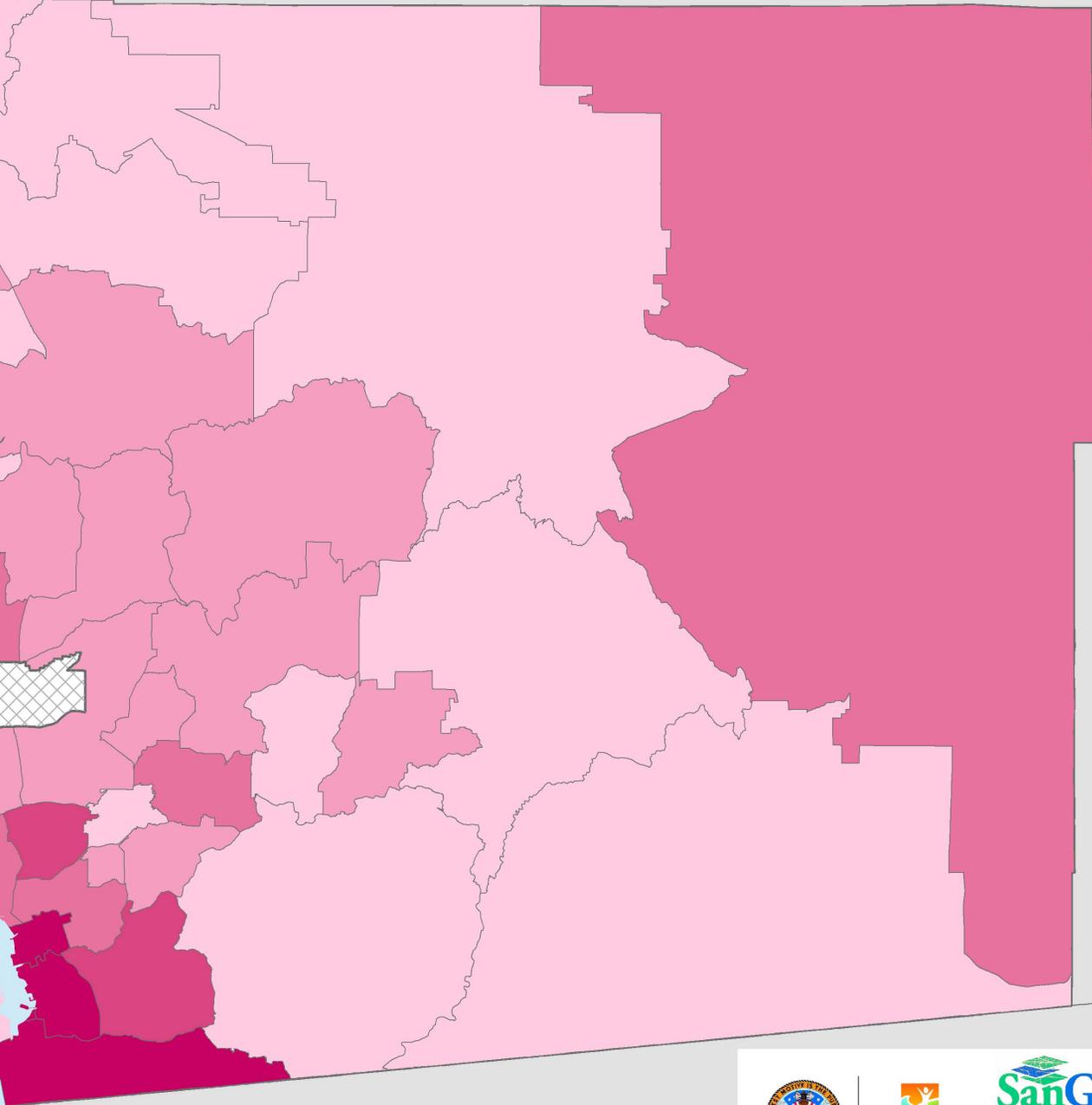


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# Percent of the Population 65+ with Medicare and Medicaid\* by Subregional Area (SRA), 2015

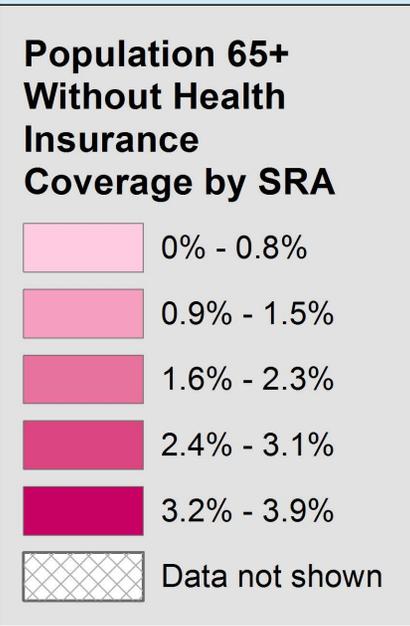


\*Medi-Cal is California's Medicaid health care program.  
 Data Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates, Table B27010.  
 Map prepared by: County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit, 12/2017.  
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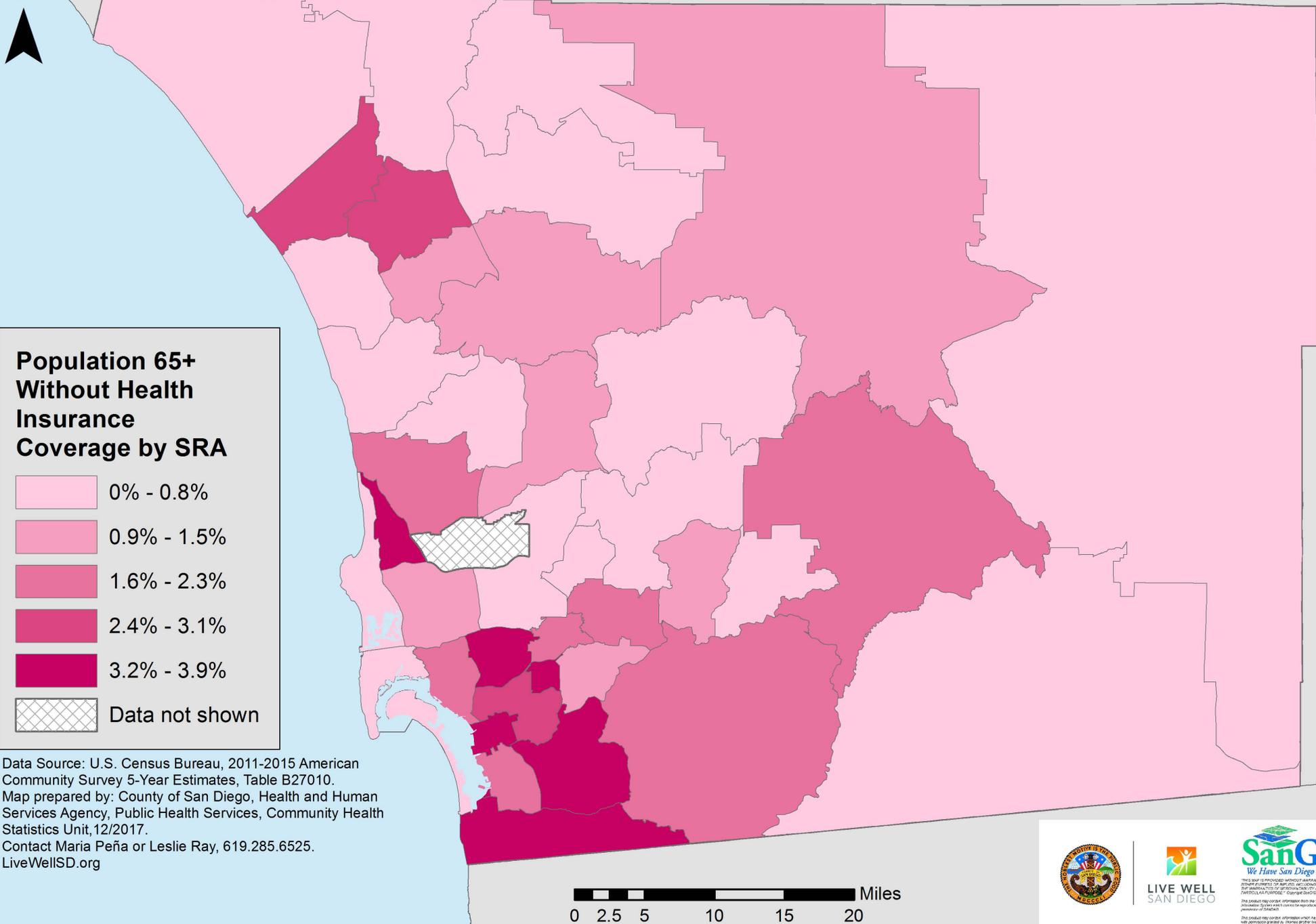


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# Percent of the Population 65+ Without Health Insurance Coverage by Subregional Area (SRA), 2015



Data Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates, Table B27010.  
 Map prepared by: County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit, 12/2017.  
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# Prevalence and Medical Encounter Data

The Office of Statewide Health Planning and Development (OSHPD) is California’s healthcare data housing entity. Data from their ED and Hospitalization databases was extracted for Alzheimer’s Disease and Related Dementias (ADRD) among older adults, ages 55+. The maps that follow show the prevalence\* of ADRD in 2015, the estimated prevalence\* of ADRD by 2030, and the emergency department (ED) and hospitalization discharge\*\* trends in the communities of San Diego County.

\*prevalence refers to the estimated number of older adults, ages 55+, living with ADRD.

\*\*Note: These are discharges of residents at San Diego County facilities (i.e. do not include any residents treated outside of San Diego County).

Understanding the data\*\*:

## *Principal Diagnosis of Alzheimer’s Disease and Related Dementias (ADRD)*

ADRD was the reason why the patient sought care and the diagnosis that resulted in the patient being admitted to care either through the emergency department or hospitalization.

## *Any Mention Diagnosis of Alzheimer’s Disease and Related Dementias (ADRD)*

ADRD was the principal diagnosis and/or was a secondary (or co-existing) diagnosis at the time of admittance to care.

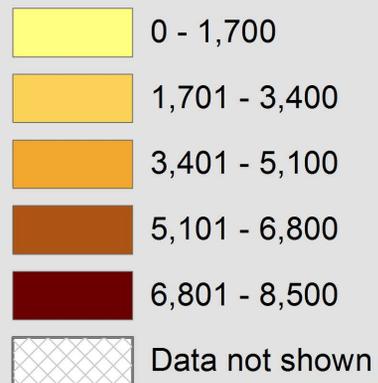
<b>Medical Encounter Types in this Section</b>	
<b>ED Discharge</b>	Emergency Department Discharge
<b>Hospitalization</b>	Hospital discharge from any facility type [GACH, SNF, Psych, Chem Rehab, Physical Rehab]
<b>IPT</b>	Discharge from In-Patient Treatment facility[Psych/Chem Rehab]
<b>GAC</b>	Discharge from General Acute Care facility
<b>SNF</b>	Discharge from Skilled Nursing facility
<b>PHY</b>	Discharge from Physical Rehab facility

Senior care often occurs in residential care facilities for the elderly (RCFEs) for those who need assistance with daily living activities such as showering, eating, and dressing and skilled nursing facilities (SNF) which provide around the clock, 24 hour, skilled nursing and/or medical care along with pharmaceutical and dietary services. These facilities are mapped later in this section as well. Some of these facilities may provide care for residents living with ADRD.

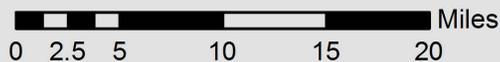
# Estimated Number of Residents, Ages 55+, with Alzheimer's Disease and Related Dementias (ADRD) in 2015, by Subregional Area (SRA)



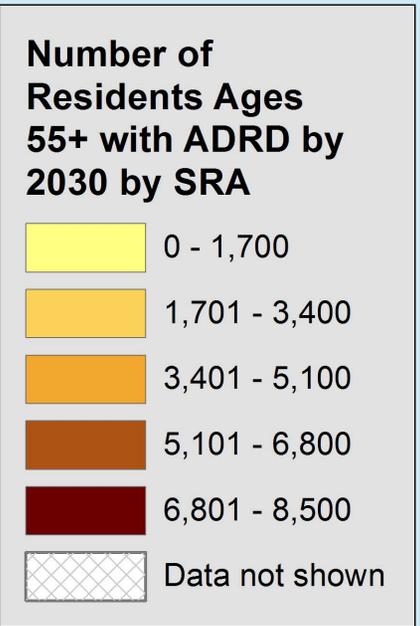
## Number of Residents Ages 55+ with ADRD in 2015 by SRA



Data Source: Patient Discharge Database and Emergency Department Discharge Database, (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Health Statistics Unit; SANDAG, Current Population Estimates, Released 03/2017.  
 Map prepared by: County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit, 12/2017.  
 Contact Maria Peña or Leslie Ray, 619.285.6525.  
[LiveWellISD.org](http://LiveWellISD.org)



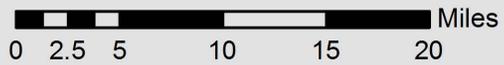
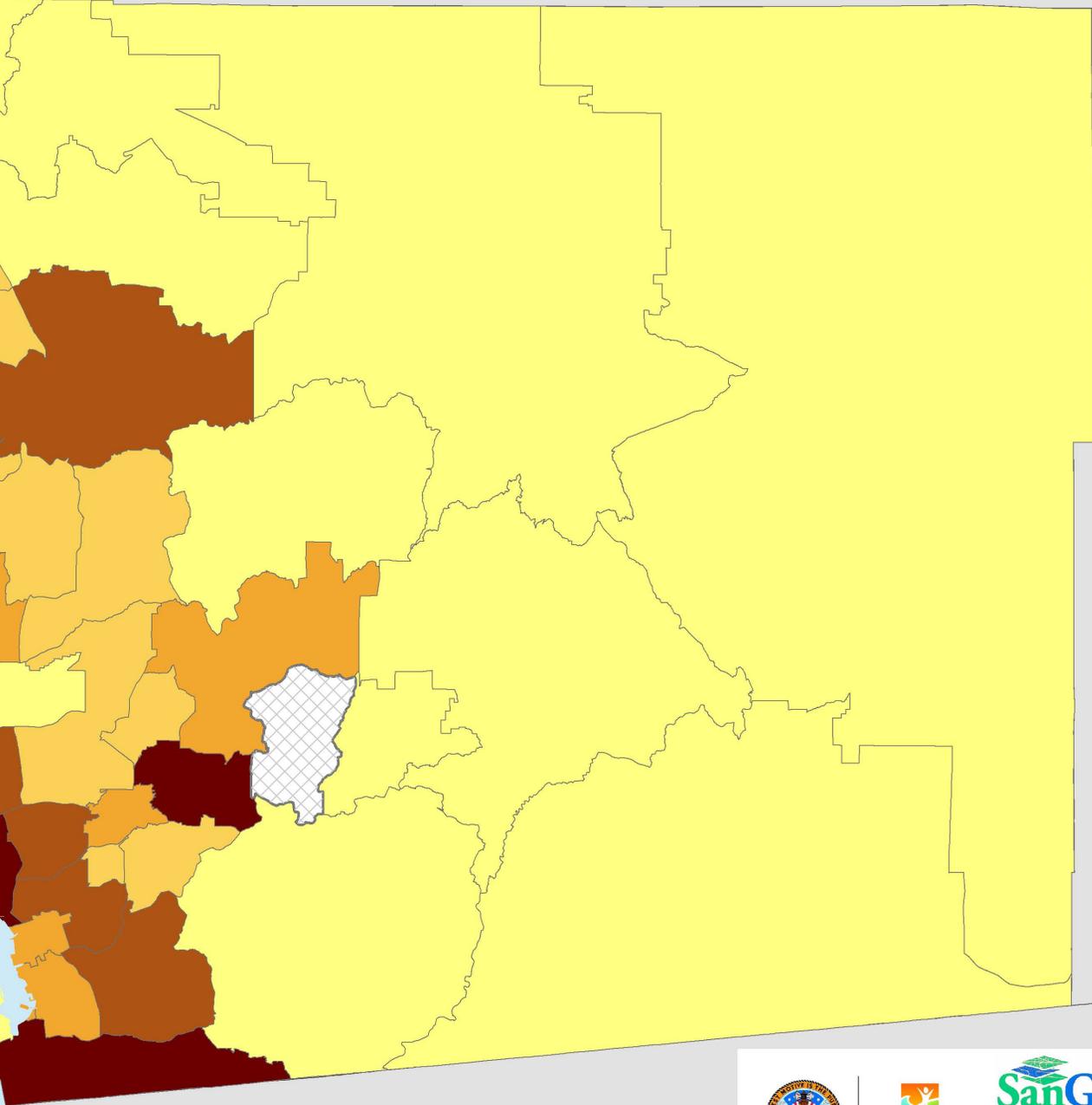
# Estimated Number of Residents, Ages 55+, with Alzheimer's Disease and Related Dementias (ADRD) by 2030, by Subregional Area (SRA)



Data Source: Patient Discharge Database and Emergency Department Discharge Database, (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Health Statistics Unit; SANDAG, Current Population Projection Estimates, Received 12/2017.

Map prepared by: County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit, 12/2017.

Contact Maria Peña or Leslie Ray, 619.285.6525.  
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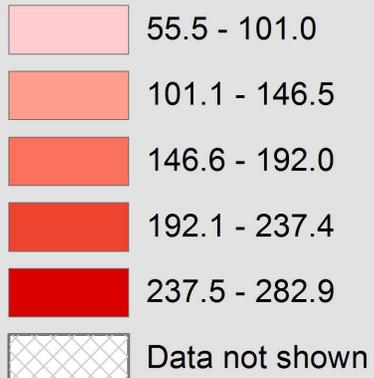
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# Rate of Residents, Ages 55+, Discharged from the Emergency Department (ED) with Principal Diagnosis of Alzheimer's Disease and Related Dementias (ADRD) by Subregional Area (SRA), 2015



## Principal Diagnosis of ADRD ED Rate by SRA (Rate per 100,000)



Data Source: Emergency Department Discharge Database (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Health Statistics Unit; SANDAG, Current Population Estimates, Released 03/2017.

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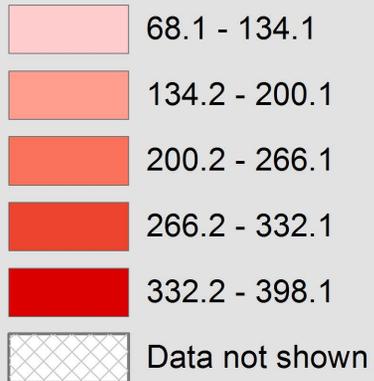


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# Rate of Residents, Ages 55+, Discharged from a Hospital\* with Principal Diagnosis of Alzheimer's Disease and Related Dementias (ADRD) by Subregional Area (SRA), 2015



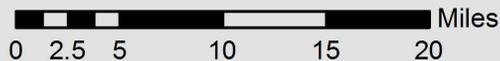
## Principal Diagnosis of ADRD Hospitalization\* Rate by SRA (Rate per 100,000)



\*Include discharges from GAC, SNF, PHY, and IPT.  
 Data Source: Patient Discharge Database (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Health Statistics Unit; SANDAG, Current Population Estimates, Released 03/2017.

Map prepared by: County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit, 12/2017.

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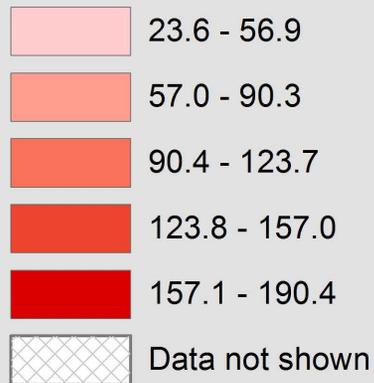
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# Rate of Residents, Ages 55+, Discharged from a General Acute Care (GAC) Hospital with Principal Diagnosis of Alzheimer's Disease and Related Dementias by Subregional Area (SRA), 2015

N



## Principal Diagnosis of ADRD GAC Hospitalization Rate by SRA (Rate per 100,000)



Data Source: Patient Discharge Database (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Health Statistics Unit; SANDAG, Current Population Estimates, Released 03/2017.

Map prepared by: County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit, 12/2017.

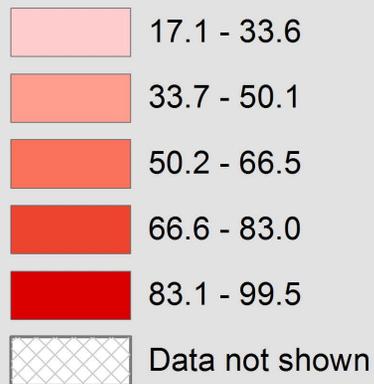
Contact Maria Peña or Leslie Ray, 619.285.6525.  
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# Rate of Residents, Ages 55+, Discharged from an In-Patient Treatment Facility (IPT) with Principal Diagnosis of Alzheimer's Disease and Related Dementias by Subregional Area (SRA), 2015



## Principal Diagnosis of ADRD IPT Rate by SRA (Rate per 100,000)



Data Source: Patient Discharge Database (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Health Statistics Unit; SANDAG, Current Population Estimates, Released 03/2017.

Map prepared by: County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit, 12/2017.

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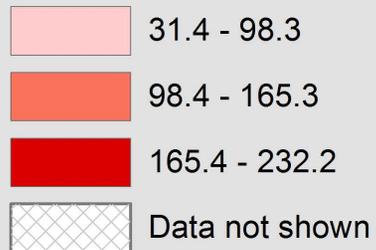
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# Rate of Residents, Ages 55+, Discharged from a Skilled Nursing Facility (SNF) with Principal Diagnosis of Alzheimer's Disease and Related Dementias by Subregional Area (SRA), 2015

N



## Principal Diagnosis of ADRD SNF Rate by SRA (Rate per 100,000)



Data Source: Patient Discharge Database (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Health Statistics Unit; SANDAG, Current Population Estimates, Released 03/2017.

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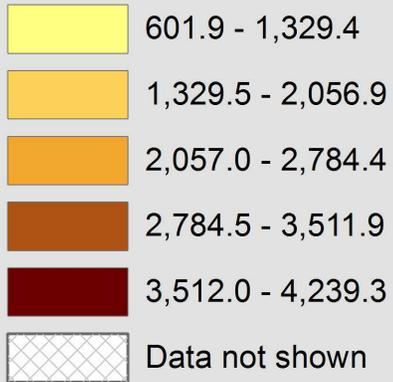


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# Rate of Residents, Age 55+, Discharged from the Emergency Department (ED) with Any Mention of Alzheimer's Disease and Related Dementias by Subregional Area (SRA), 2015



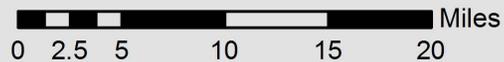
## Any Mention of ADRD ED Discharge Rate by SRA (Rate per 100,000)



Data Source: Emergency Department Discharge Database (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Health Statistics Unit; SANDAG, Current Population Estimates, Released 03/2017.

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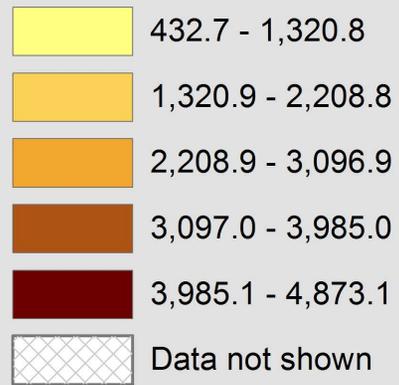


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# Rate of Residents, Ages 55+, Discharged from a Hospital\* with Any Mention of Alzheimer's Disease and Related Dementias by Subregional Area (SRA), 2015



## Any Mention of ADRD Hospitalization\* Rate by SRA (Rate per 100,000)



\*Include discharges from GAC, SNF, PHY, and IPT.  
Data Source: Patient Discharge Database (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Health Statistics Unit; SANDAG, Current Population Estimates, Released 03/2017.

Map prepared by: County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit, 12/2017.

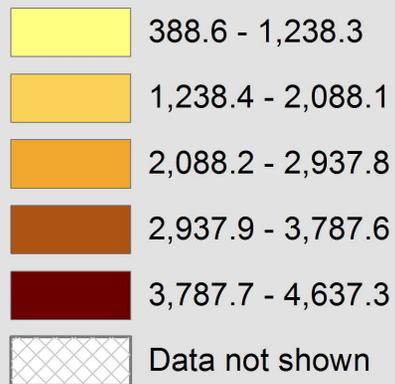
Contact Maria Peña or Leslie Ray, 619.285.6525.  
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# Rate of Residents, Ages 55+, Discharged from a General Acute Care (GAC) Hospital with Any Mention of Alzheimer's Disease and Related Dementias (ADRD) by Subregional Area (SRA), 2015



## Any Mention of ADRD GAC Hospitalization Rate by SRA (Rate per 100,000)



Data Source: Patient Discharge Database (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Health Statistics Unit; SANDAG, Current Population Estimates, Released 03/2017.

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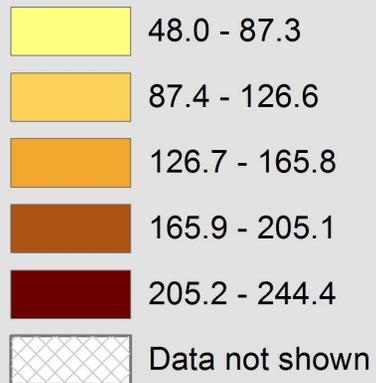


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# Rate of Residents, Ages 55+, Discharged from an In-Patient Treatment Facility (IPT) with Any Mention of Alzheimer's Disease and Related Dementias (ADRD) by Subregional Area (SRA), 2015



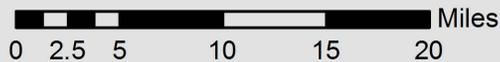
## Any Mention of ADRD IPT Rate by SRA (Rate per 100,000)



Data Source: Patient Discharge Database (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Health Statistics Unit; SANDAG, Current Population Estimates, Released 03/2017.

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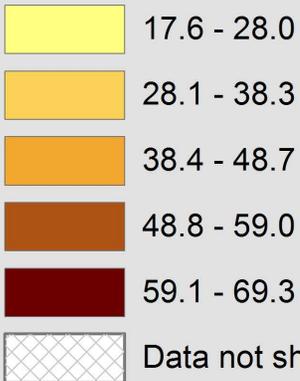
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# Rate of Residents, Ages 55+, Discharged from a Physical Rehabilitation Facility (PHY) with Any Mention of Alzheimer's Disease and Related Dementias (ADRD) by Subregional Area (SRA), 2015

N



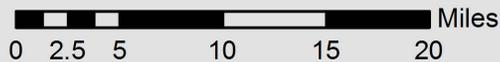
## Any Mention of ADRD PHY Rate by SRA (Rate per 100,000)



Data Source: Patient Discharge Database (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Health Statistics Unit; SANDAG, Current Population Estimates, Released 03/2017.

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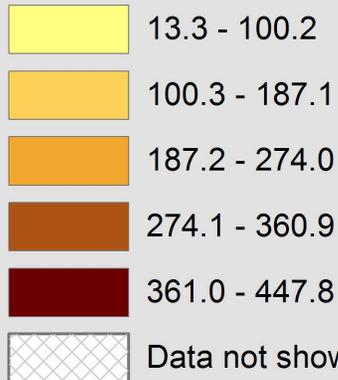
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# Rate of Residents, Ages 55+, Discharged from a Skilled Nursing Facility (SNF) with Any Mention of Alzheimer's Disease and Related Dementias (ADRD) by Subregional Area (SRA), 2015

N



## Any Mention of ADRD SNF Rate by SRA (Rate per 100,000)



Data Source: Patient Discharge Database (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Health Statistics Unit; SANDAG, Current Population Estimates, Released 03/2017.

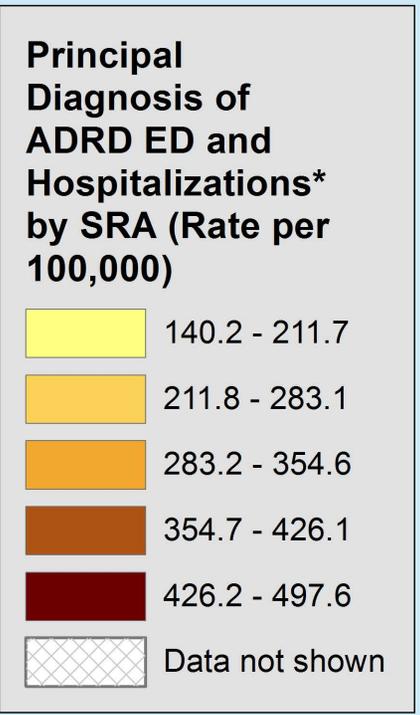
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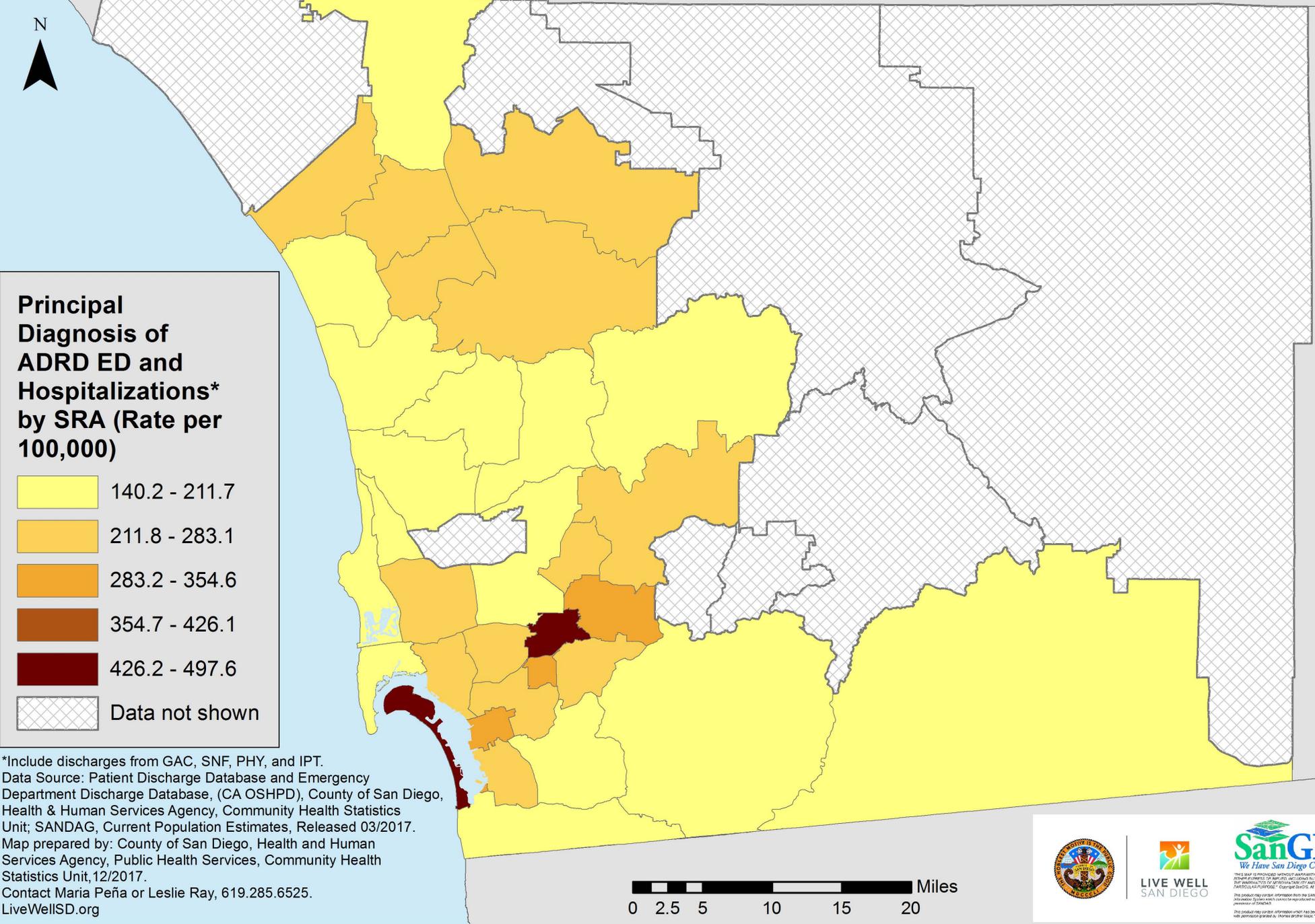


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# Rate of Residents, Ages 55+, Discharged from the Emergency Department (ED) or Hospital\* with Principal Diagnosis of Alzheimer's Disease and Related Dementias by Subregional Area (SRA), 2015



\*Include discharges from GAC, SNF, PHY, and IPT.  
 Data Source: Patient Discharge Database and Emergency Department Discharge Database, (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Health Statistics Unit; SANDAG, Current Population Estimates, Released 03/2017.  
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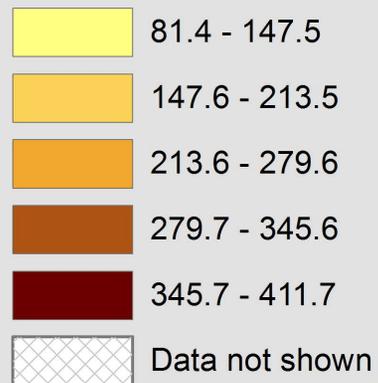
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# Rate of Residents, Ages 55+, Discharged from the Emergency Department (ED) or General Acute Care (GAC) Hospital with Principal Diagnosis of Alzheimer's Disease and Related Dementias by Subregional Area (SRA), 2015



## Principal Diagnosis of ADRD ED and GAC Hospitalizations Rate by SRA (Rate per 100,000)



Data Source: Patient Discharge Database and Emergency Department Discharge Database, (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Health Statistics Unit; SANDAG, Current Population Estimates, Released 03/2017.

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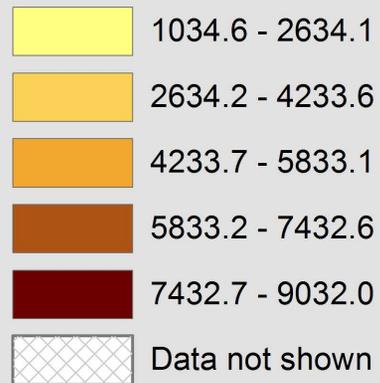


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# Rate of Residents, Ages 55+, Discharged from the Emergency Department (ED) or Hospital\* with Any Mention of Alzheimer's Disease and Related Dementias by Subregional Area (SRA), 2015



## Any Mention of ADRD in ED and Hospitalizations\* by SRA (Rate per 100,000)



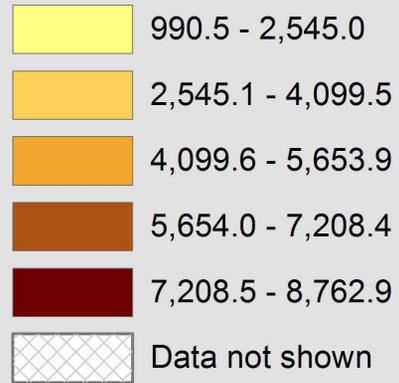
\*Include discharges from GAC, SNF, PHY, and IPT.  
 Data Source: Patient Discharge Database and Emergency Department Discharge Database, (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Health Statistics Unit; SANDAG, Current Population Estimates, Released 03/2017.  
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# Rate of Residents, Ages 55+, Discharged from the Emergency Department (ED) or General Acute Care (GAC) Hospital with Any Mention of Alzheimer's Disease and Related Dementias by Subregional Area (SRA), 2015



## Any Mention of ADRD in ED and GAC Hospitalizations by SRA (Rate per 100,000)



Data Source: Patient Discharge Database and Emergency Department Discharge Database, (CA OSHPD), County of San Diego, Health & Human Services Agency, Community Health Statistics Unit; SANDAG, Current Population Projection Estimates, Received 12/2017.

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# Residential Care Facilities for the Elderly in San Diego County by Subregional Area (SRA)



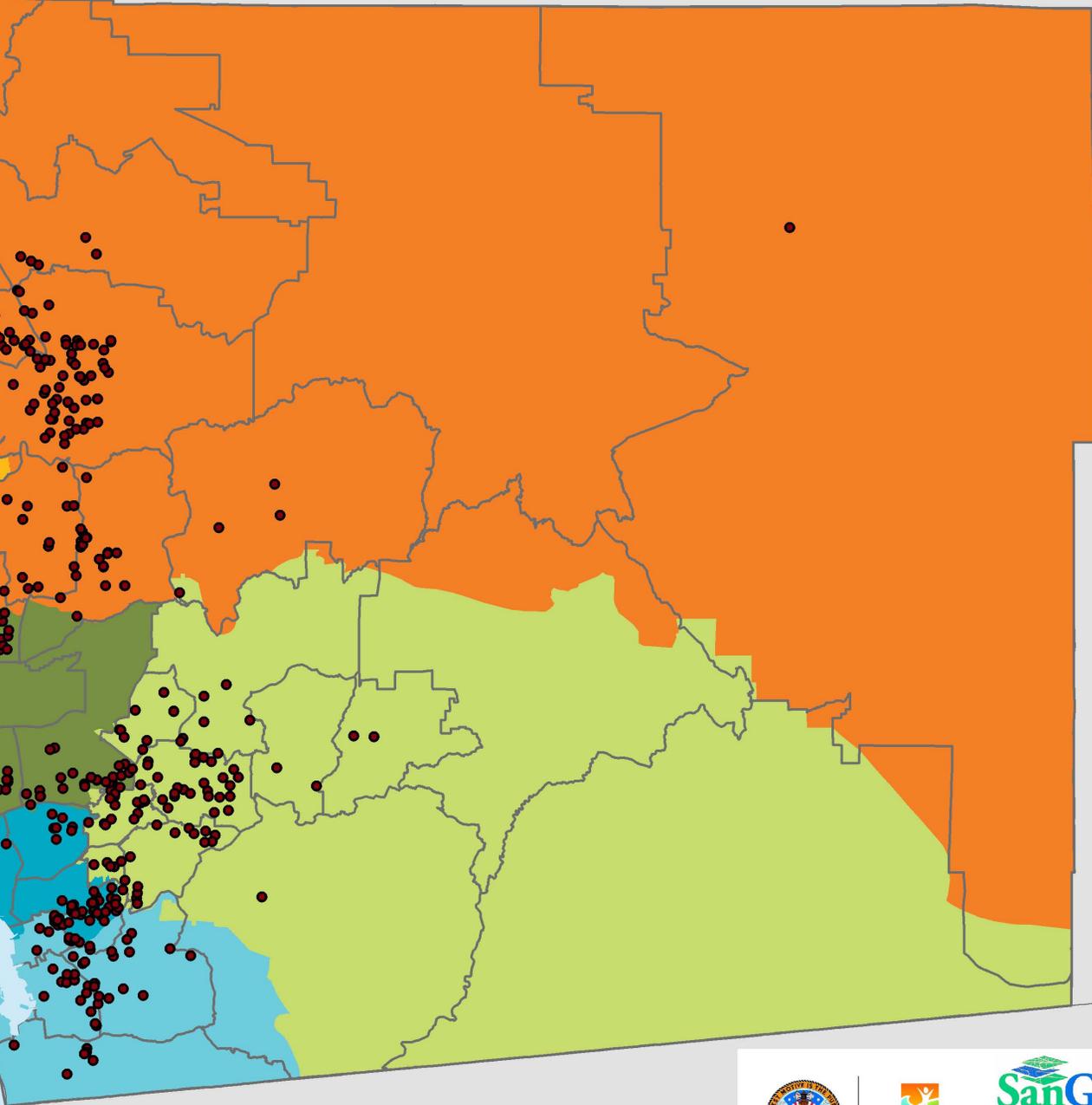
Residential Care Facility for the Elderly

SRA

**HHSA Region**

- Central
- East
- North Central
- North Coastal
- North Inland
- South

Data Source: California Community Care Licensing Division.  
 Map Prepared by: County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit, 12/2017.  
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# Skilled Nursing Facilities in San Diego County by Subregional Area (SRA)



Skilled Nursing Facility  
 SRA  
**HHSA Region**  
 Central  
 East  
 North Central  
 North Coastal  
 North Inland  
 South

Data Source: Office of Statewide Health Planning and Development (CA OSHPD).  
 Map Prepared by: County of San Diego, Health and Human Services Agency, Public Health Services, Community Health Statistics Unit, 12/2017.  
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