

**County Mental Health Tracking:
San Diego County**

A Project of the
Center for Reducing Health Disparities
UC Davis School of Medicine

Sponsored by the
Mental Health Services Oversight and Accountability Commission
(MHSOAC)

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Measuring Access to Mental Health Care Services in San Diego

In our previous county-level analyses, we used a penetration rate as the measure of access to mental health care services. While the measure was the same in San Diego County, the data sources were different. The prior work for Stanislaus and Santa Clara counties defined the penetration rate as follows:

Numerator: The number of individuals with a mental health diagnosis (as listed in Appendix A in the prior report) who existed in the CSI database during 2008.

Denominator: Includes the general population (or subpopulation of interest thereof) derived from 2008 population estimates from Geolytics, Inc.

This methodology required adjustment for San Diego County for three reasons: first, they had a changeover in their database practices during 2008 and felt data for that year were less reliable than 2009; second, their CSI database did not have client addresses; third, they felt that getting the CSI data would be difficult and they could not do it in a timely fashion. For those reasons, the dataset provided to us for this research came from the MIS-Anasazi database. Notably, this database is not limited to only CSI reportable services and therefore also includes jail mental health services as well as long term care and hospital services. Therefore, the penetration rate generated for San Diego County was:

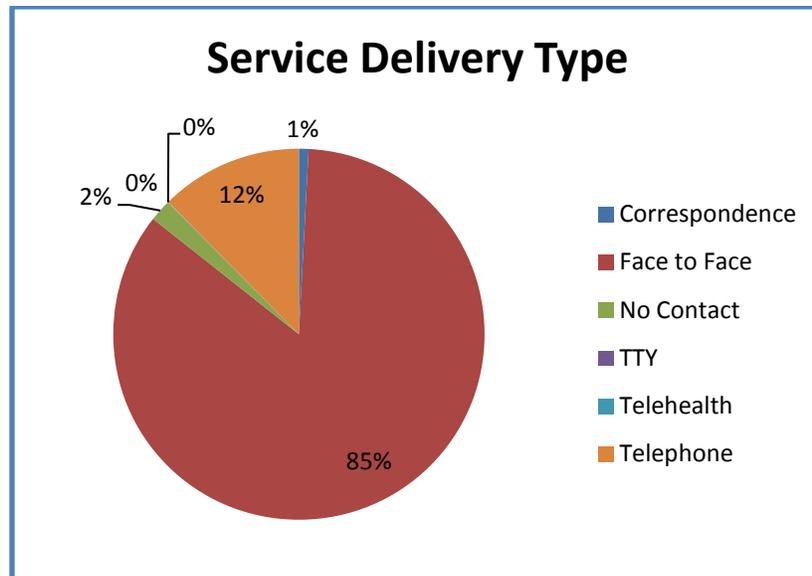
Numerator: The number of individuals with a mental health diagnosis (as listed in Appendix A in this report) who existed in the MIS-Anasazi database during 2009.

Denominator: Includes the general population (or subpopulation of interest thereof) derived from 2005-2009 population estimates from the American Community Survey by the U.S. Census Bureau.

Please see the atlas for maps showing penetration rates by census tract in San Diego County as well as the clusters of high and low penetration in the hot spot maps.

Measuring Mental Health Care Services Utilization in San Diego

The utilization of mental health care services was analyzed using a measure of the number of mental health visits per MIS-Anasazi client by census tract. For this work, we used the presumed outpatient population. To do this we analyzed the service delivery types noted within the database and selected only those patients who had either a face-to-face type or telehealth type (this was inclusive of 85% of the total observations).



Please see the atlas for maps showing utilization rates by census tract in San Diego County as well as the clusters of high and low utilization in the hot spot maps.

Discussion of Findings in San Diego County

We found San Diego County to be cooperative in providing us with their MIS- Anasazi data for this research. Still there were some issues with actually obtaining the data due to some administrative problems/communication, difficulties with the CSI data request (as noted above) and conflicting priorities with other data requests. When the data was delivered, we received a well-organized Microsoft Access database.

Since San Diego County does not geocode its own data, we performed the geocoding ourselves. The address data provided was in excellent condition for geocoding. We had an essential 100% match rate for 42,936 records within San Diego County (only 1 unmatched address and approximately 100 ties). Some addresses led to a tie in the geocoding process and had to be manually matched. The most

common reason for the tie was when the address did not include a North/South or East/West designation. For example, consider the address (a ‘false’ address is used as an example to protect patient privacy): 320 Mission Avenue, Escondido, CA 92025. Using Google Earth, we found that both a 320 East and 320 West Mission Avenue existed. By analyzing the satellite imagery, we could detect that one address represented apartment buildings (East) while the other was a commercial building (West), thus we matched to the residential address. This kind of error comprised a large portion of the tied records and we were able to resolve approximately half (our match rate was better than 99.88%).

The population included in the analysis is described in Table 1 and is compared to demographic data from 2009. The number of individuals receiving county mental health care services is roughly 1.98% of the overall population. When comparing that percentage to the estimated prevalence of mental illness in California, this appears to indicate some level of service disparity.

[Table 1. San Diego County MIS-Anasazi database clients \(2009\) compared to demographic data from the U.S. Census American Community Survey \(2005-2009\).](#)

Total	MIS- Anasazi N = 42,936	U.S. Census Demographics N=510,385
Gender		
Male	48.3%	48.9%
Female	51.6%	51.1%
Unknown	0.15%	
Age		
12-19	22.0%	17.7%
20-24	8.3%	10.8%
25-44	34.0%	39.4%
45-54	21.4%	18.9%
55-64	14.3%	13.2%
Race*		
White	48.5%	73.2%
African-American	13.6%	5.4%
Asian/Pacific Islander	7.2%	11.4%
Am Indian/Alaskan Native	1.1%	0.8%
Other	29.6%	9.2%
Ethnicity**		
Hispanic	26.9%	31.1%
Non-Hispanic	50.7%	52.8%
Other	22.4%	16.0%

*The MIS-Anasazi database includes several sub-populations of Asian and Pacific Islander. To create the category of 'Asian/Pacific Islander' we combined the following groups: Asian Indian, Cambodian, Chaldean, Chinese, Filipino, Guamanian, Hmong, Iranian, Iraqi, Japanese, Korean, Laotian, Other Asian, Other Pacific Islander, Samoan, and Vietnamese.

**The ethnic categories in the MIS-Anasazi database include: Cuban, Dominican, Mexican American/Chicano, Other Hispanic/Latino, Puerto Rican, and Salvadoran which were combined to form the Hispanic category.

When assessing the provision of services in San Diego County, it is helpful to begin at the state level (see Deliverable #1 and the statewide atlas) for context. The state-level trend for adult populations (> age 19) is toward high levels of access AND high levels of utilization of mental health care services with only a single exception – there is low access for the Native American population. This trend may imply an overuse of services in San Diego County on average as compared to the overall California population using Medi-Cal for their healthcare. Alternatively, one must consider the very real possibility that the statewide averages for access and utilization are inadequate and San Diego County is simply doing better by comparison and may or may not be meeting the population need. For youth at the state level (ages 12-19), San Diego County showed high levels of access for all race, ethnicity and gender groups (excepting Native Americans). But for these younger patients, utilization was found to be low for Native Americans, Hispanics, Caucasians and women. One explanation for the lower level of utilization, particularly when combined with higher levels of access may be that these population subgroups in San Diego County have less serious mental health problems (so fewer visits per patient) or that there is some problem with follow up care.

As we look at the county level maps, the following trends emerge:

- Mental health access patterns are strikingly similar among many of the groups studied. The pattern shows increased access in the San Diego City area and decreased access along the coastal areas from Solana Beach to Del Mar and south to La Jolla. We see this in the following groups: all age groups, both genders, whites, and Hispanics (though Hispanics also have an area of high access around Escondido and in the eastern part of the county).
- For the black population, high levels of access were seen around Escondido, Otay Lake and a small part of San Diego City. There was low access in the area around the Marine Corps Air Station at Miramar and east of Chula Vista.

- The Asian population had no areas of low access but showed some higher access east of El Cajon between Granite Hills and Harbison Canyon.
- There was high access for non-Hispanics in the eastern part of the county.
- Utilization patterns varied widely among the subgroups studied, though one consistency was that lower levels of utilization were seen all along the coastal communities from Oceanside to San Diego City. In areas where both access and utilization were low along the coast (particularly between Solana Beach and San Diego) there is a potential need for more services.
- High levels of utilization were seen most often in the southwestern part of the county around Chula Vista, National City and Imperial Beach. We also saw that men, blacks and Hispanics had higher levels of utilization in the Poway area near Miramar air station. In these areas, where access was equivalent to the county mean, it appears that patients are receiving high levels of follow up care for their mental health conditions.
- There was no clustering seen in hot spot maps for Native Americans (both access and utilization) and Asian populations (utilization only). This may be a 'real' effect – meaning that mental health services for these populations are provided uniformly over the San Diego County geography OR it may mean, especially in the case of Native Americans, that the population was too small to analyze successfully.

Appendix A

List of mental health diagnoses included in the county level analysis (x indicates all existing subgroups for that code)

<i>Disorder</i>	<i>ICD 9 code</i>
Psychotic disorder with delusions in conditions classified elsewhere (transient, organic, paranoid)	293.81
Psychotic disorder with delusions in conditions classified elsewhere (transient, organic, hallucinatory)	293.82
Schizophrenic disorders	295.xx
Bipolar I disorder, single manic episode	296.00
Manic disorder, recurrent episode	295.10
Major depressive disorder, single episode	296.20
Major depressive disorder, recurrent episode	296.30
Bipolar I disorder, most recent episode (or current) manic	296.40
Major depressive disorder, circular type, if previous attack was of manic type	296.50
Bipolar I disorder, most recent episode (or current) depressed	296.50
Bipolar I disorder, most recent episode (or current) mixed	296.60
Bipolar I disorder, most recent episode (or current) unspecified	296.70
Bipolar disorder, unspecified	296.8x
Unspecified episodic mood disorder	296.9x
Paranoid state, simple	297.xx
Major depressive disorder, psychotic	298.xx
Autistic disorder	299.xx
Anxiety state, unspecified	300.00
Panic disorder without agoraphobia	300.01
Generalized anxiety disorder	300.02
Hysteria	300.1x
Phobia, unspecified	300.20
Agoraphobia with panic disorder	300.21
Agoraphobia without mention of panic attacks	300.22
Social phobia	300.23
Other isolated specific phobias	300.29
Obsessive-compulsive disorders	300.30
Dysthymic disorder	300.40
Neurasthenia	300.50
Depersonalization disorder	300.60
Hypochondriasis	300.70
Somatization disorder	300.8x
Unspecified neuropsychotic mental disorder	300.90
Affective personality disorder	301.1x
Obsessive-compulsive personality disorder	301.40
Antisocial personality disorder	301.70
Borderline personality disorder	301.83
Alcohol dependence syndrome	303.xx
Opioid type dependence	304.xx
Nondependent use of drugs	305.xx
Special symptoms or syndromes, not elsewhere classified	307.xx
Acute reaction to stress	308.00
Adjustment disorder	309.xx

Posttraumatic stress disorder	309.81
Depressive disorder, not elsewhere classified	311.00
Conduct disorder	312.xx
Overanxious disorder	313.xx
Attention deficit disorder	314.00
Attention deficit disorder with hyperactivity	314.01
Hyperkinetic conduct disorder	314.20

**Atlas of Mental Health Care Access and Utilization
for San Diego County**

List of Maps

Access to Mental Health Care Services:

Distribution Maps

All Patients (ages 12-64), 2009

Age 12-19, 2009

Age 20-24, 2009

Age 25-44, 2009

Age 45-54, 2009

Age 55-64, 2009

Men, 2009

Women, 2009

White Population, 2009

Black Population, 2009

Asian and Pacific Islander Population , 2009

Native American Population, 2009

Other Race Population, 2009

Hispanic Population, 2009

Non-Hispanic Population, 2009

Hot Spot Maps

All Patients (ages 12-64), 2009

Age 12-19, 2009

Age 20-24, 2009

Age 25-44, 2009

Age 45-54, 2009

Age 55-64, 2009

Men, 2009

Women, 2009

White Population, 2009

Black Population, 2009

Asian and Pacific Islander Population , 2009

Native American Population, 2009 - NO MAP - NO CLUSTERING PRESENT

Other Race Population, 2009

Hispanic Population, 2009

Non-Hispanic Population, 2009

Utilization of Mental Health Care Services:

Distribution Maps

All Patients (ages 12-64), 2009

Age 12-19, 2009

Age 20-24, 2009

Age 25-44, 2009

Age 45-54, 2009

Age 55-64, 2009

Men, 2009

Women, 2009

White Population, 2009

Black Population, 2009

Asian Pacific Islander Population , 2009

Native American Population, 2009

Other Race Population, 2009

Hispanic Population, 2009

Non-Hispanic Population, 2009

Hot Spot Maps

All Patients (ages 12-64), 2009

Age 12-19, 2009

Age 20-24, 2009

Age 25-44, 2009

Age 45-54, 2009

Age 55-64, 2009

Men, 2009

Women, 2009

White Population, 2009

Black Population, 2009

Asian Pacific Islander Population , 2009 - NO MAP - NO CLUSTERING PRESENT

Native American Population, 2009 - NO MAP - NO CLUSTERING PRESENT

Other Race Population, 2009

Hispanic Population, 2009

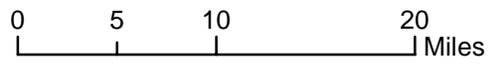
Non-Hispanic Population, 2009

San Diego County



- Major City Pop > 100,000
- City
- Interstate Freeway
- Major Highway
- Lake
- Census Tract Boundary

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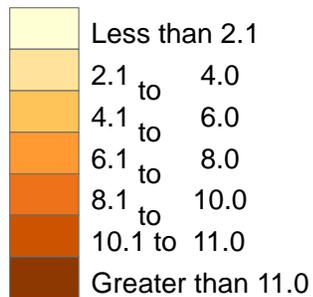
Notes: Projection is North American Datum 1983, California Teale Albers.

Access* to Mental Health Care Services

San Diego County, 2009 - Ages 12 through 64

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

Penetration Rate (%)



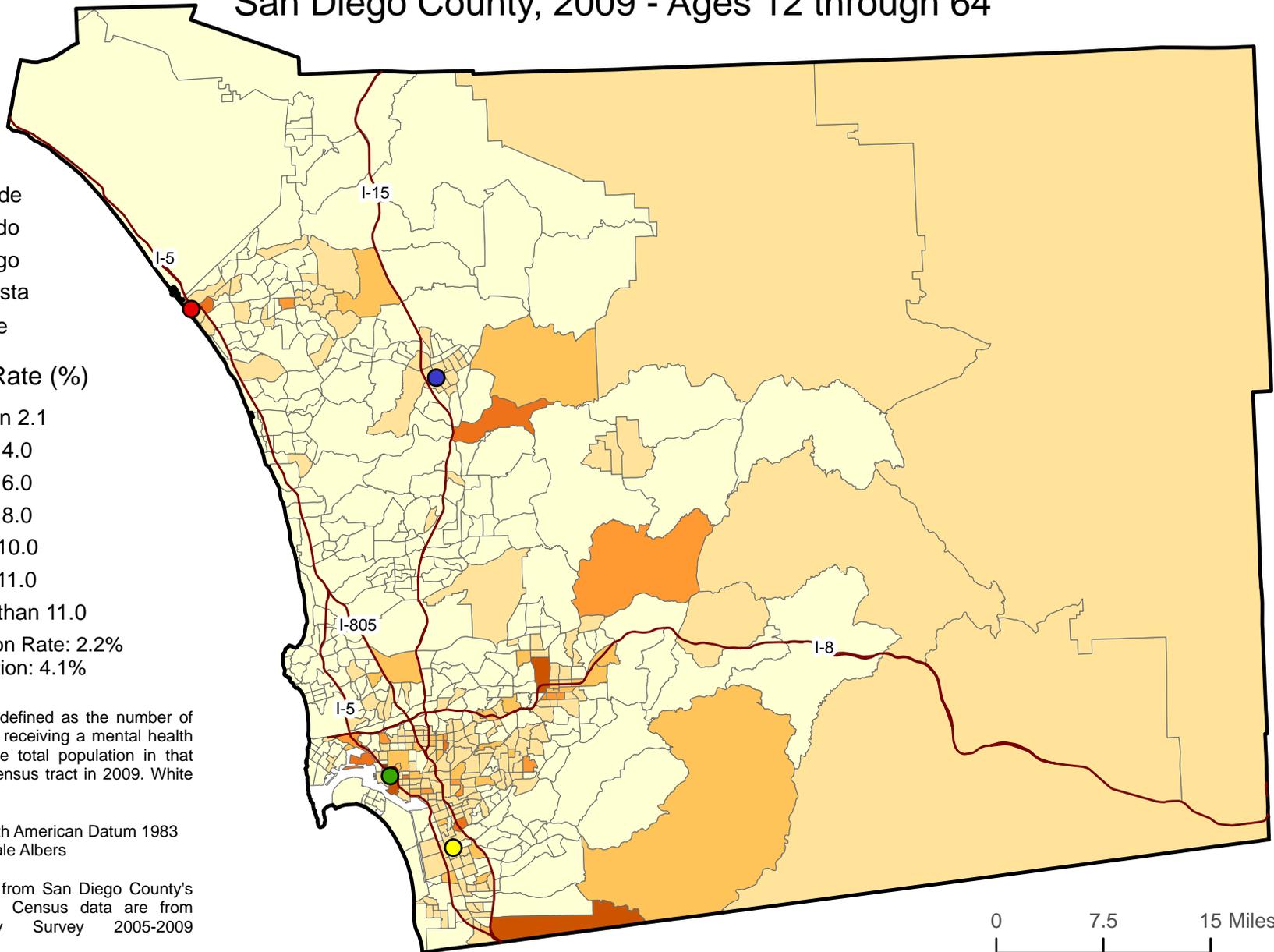
Mean Penetration Rate: 2.2%
Standard Deviation: 4.1%

*Notes:

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database. Census data are from American Community Survey 2005-2009 estimates.

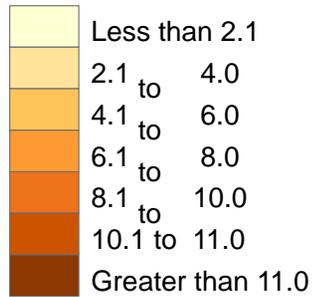


Access* to Mental Health Care Services

San Diego County, 2009 - Ages 12 through 19

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

Penetration Rate (%)



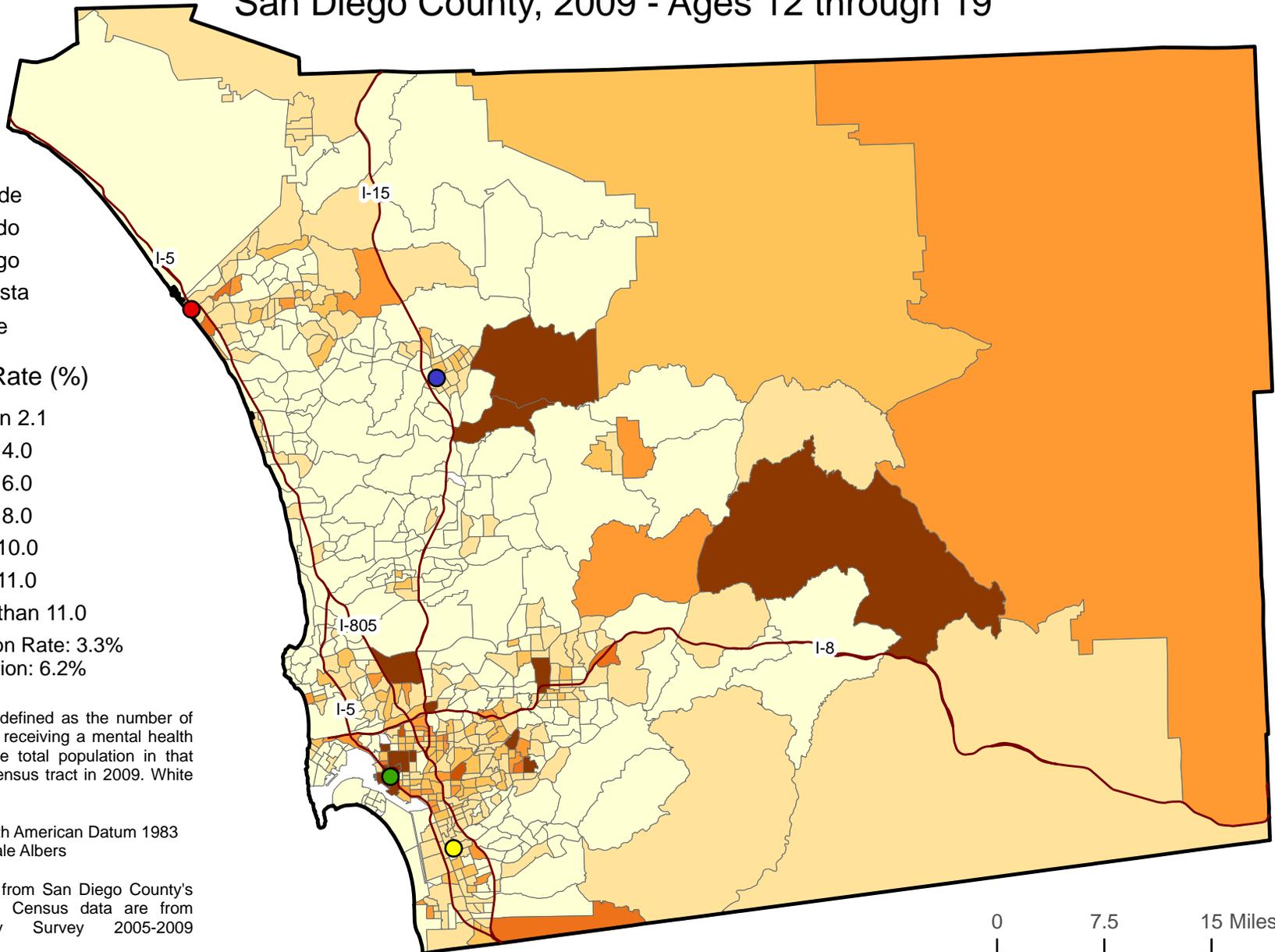
Mean Penetration Rate: 3.3%
Standard Deviation: 6.2%

*Notes:

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database. Census data are from American Community Survey 2005-2009 estimates.

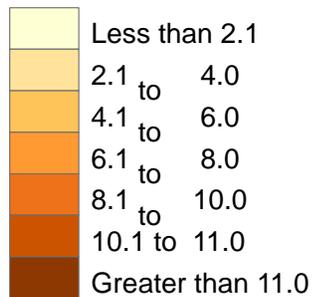


Access* to Mental Health Care Services

San Diego County, 2009 - Ages 20 through 24

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

Penetration Rate (%)



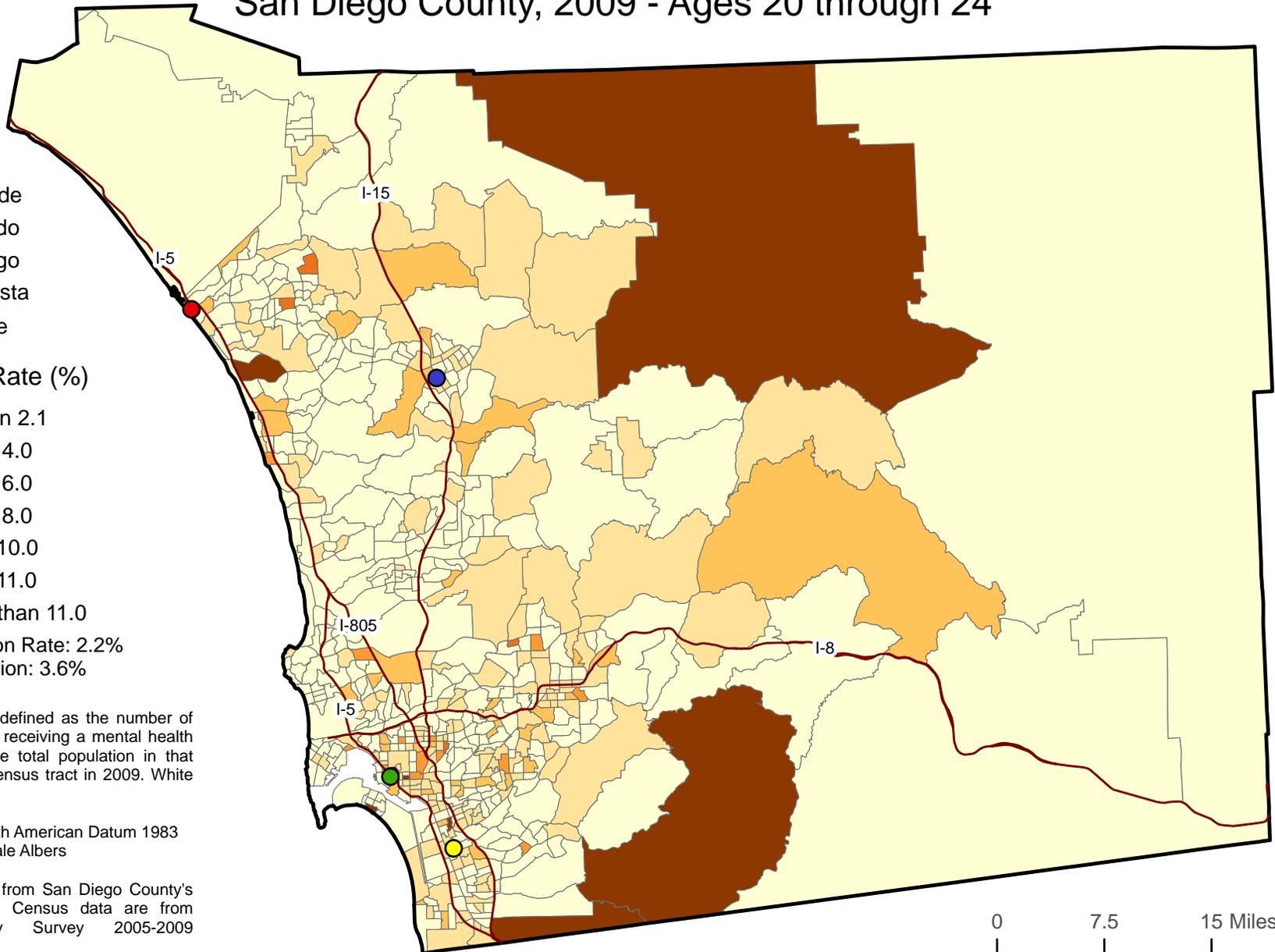
Mean Penetration Rate: 2.2%
Standard Deviation: 3.6%

*Notes:

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database. Census data are from American Community Survey 2005-2009 estimates.

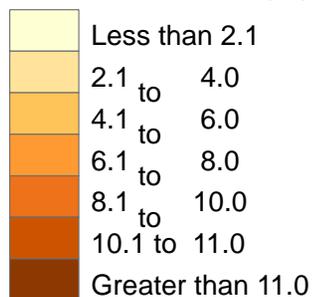


Access* to Mental Health Care Services

San Diego County, 2009 - Ages 25 through 44

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

Penetration Rate (%)



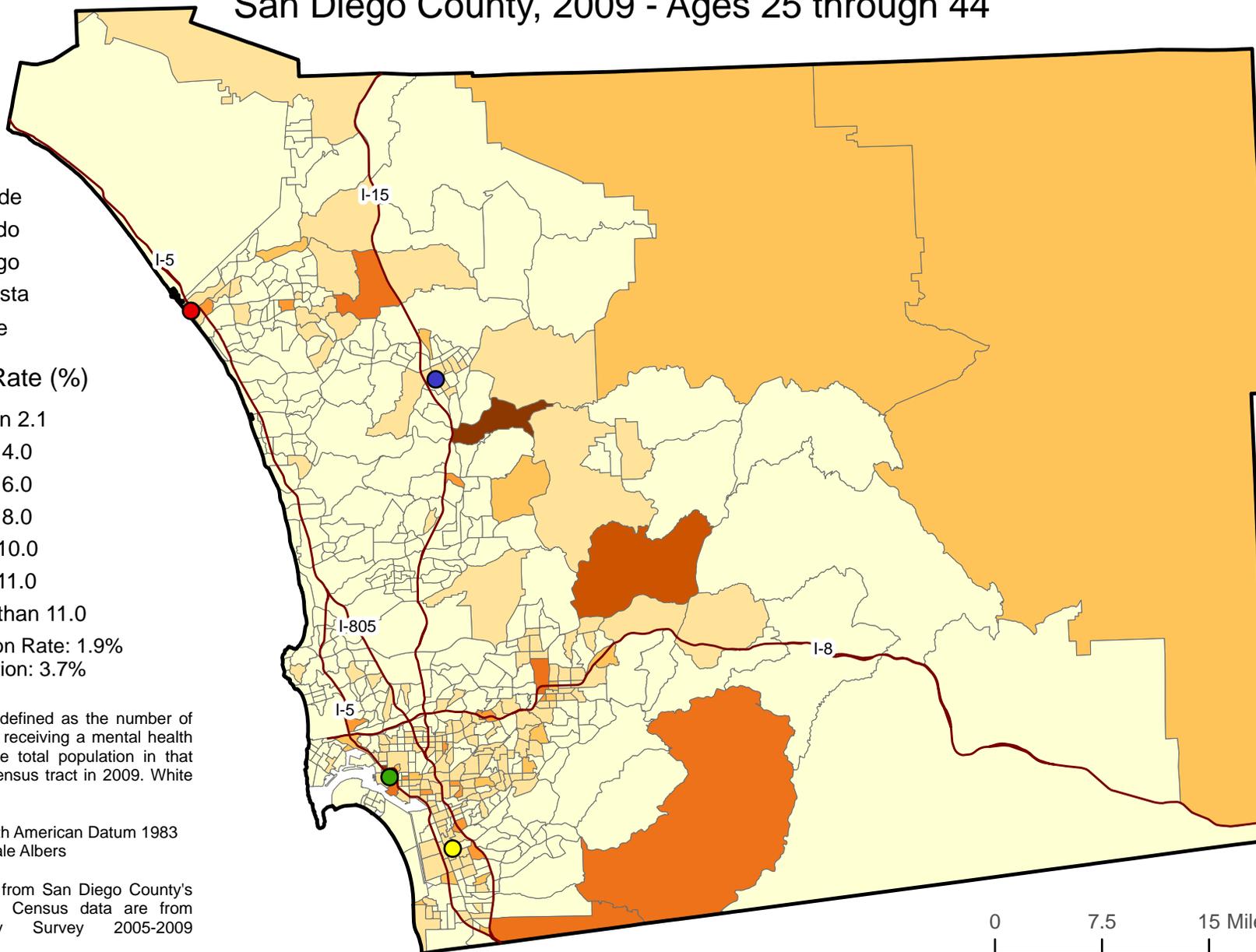
Mean Penetration Rate: 1.9%
Standard Deviation: 3.7%

*Notes:

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database. Census data are from American Community Survey 2005-2009 estimates.

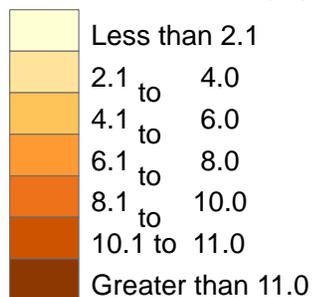


Access* to Mental Health Care Services

San Diego County, 2009 - Ages 45 through 54

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

Penetration Rate (%)



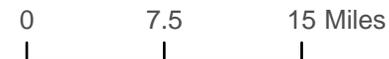
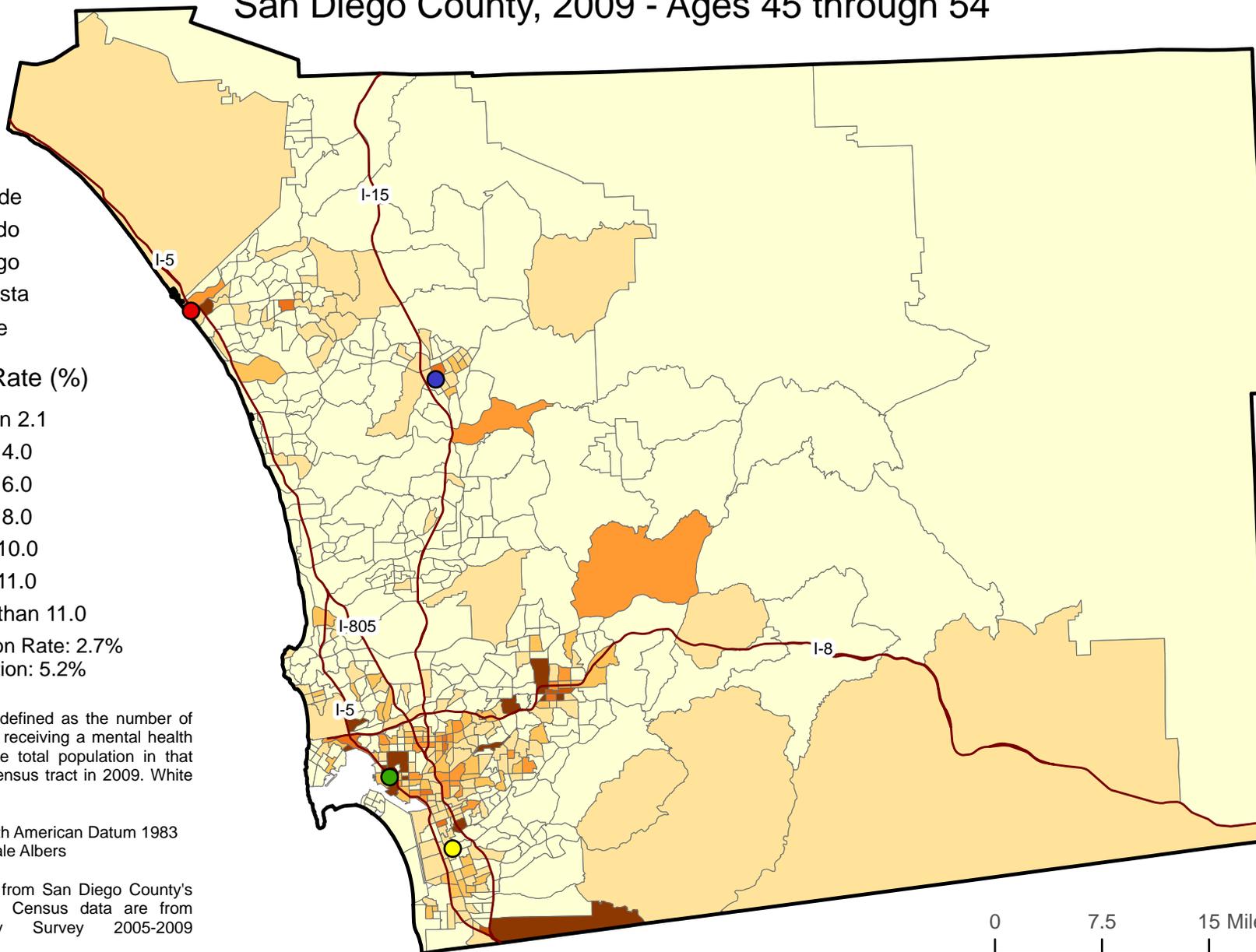
Mean Penetration Rate: 2.7%
Standard Deviation: 5.2%

*Notes:

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database. Census data are from American Community Survey 2005-2009 estimates.

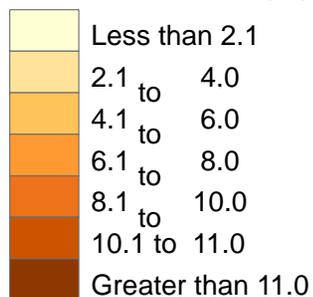


Access* to Mental Health Care Services

San Diego County, 2009 - Ages 55 through 64

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

Penetration Rate (%)



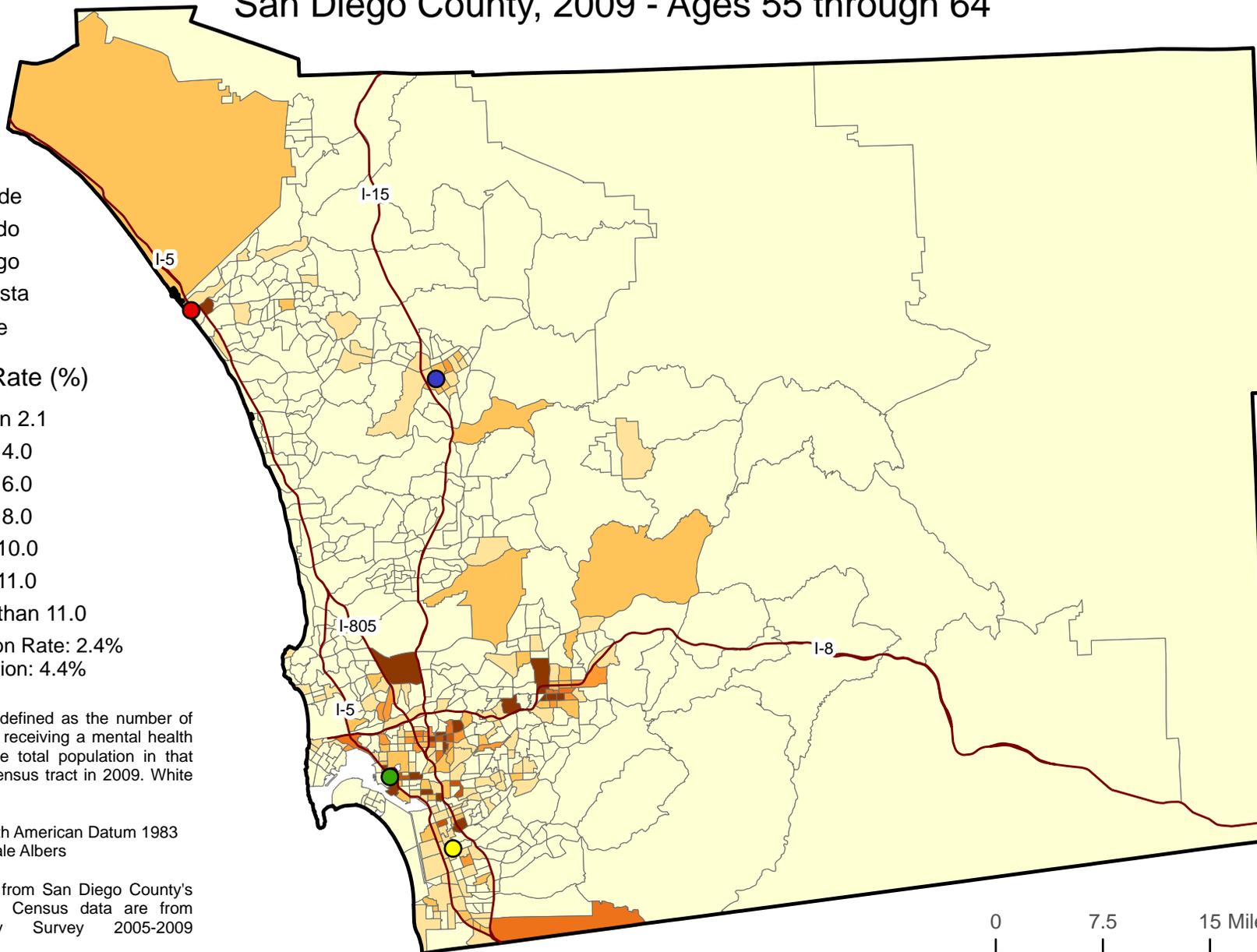
Mean Penetration Rate: 2.4%
Standard Deviation: 4.4%

*Notes:

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database. Census data are from American Community Survey 2005-2009 estimates.

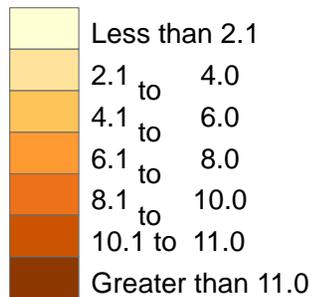


Access* to Mental Health Care Services

San Diego County, 2009 - Men

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

Penetration Rate (%)



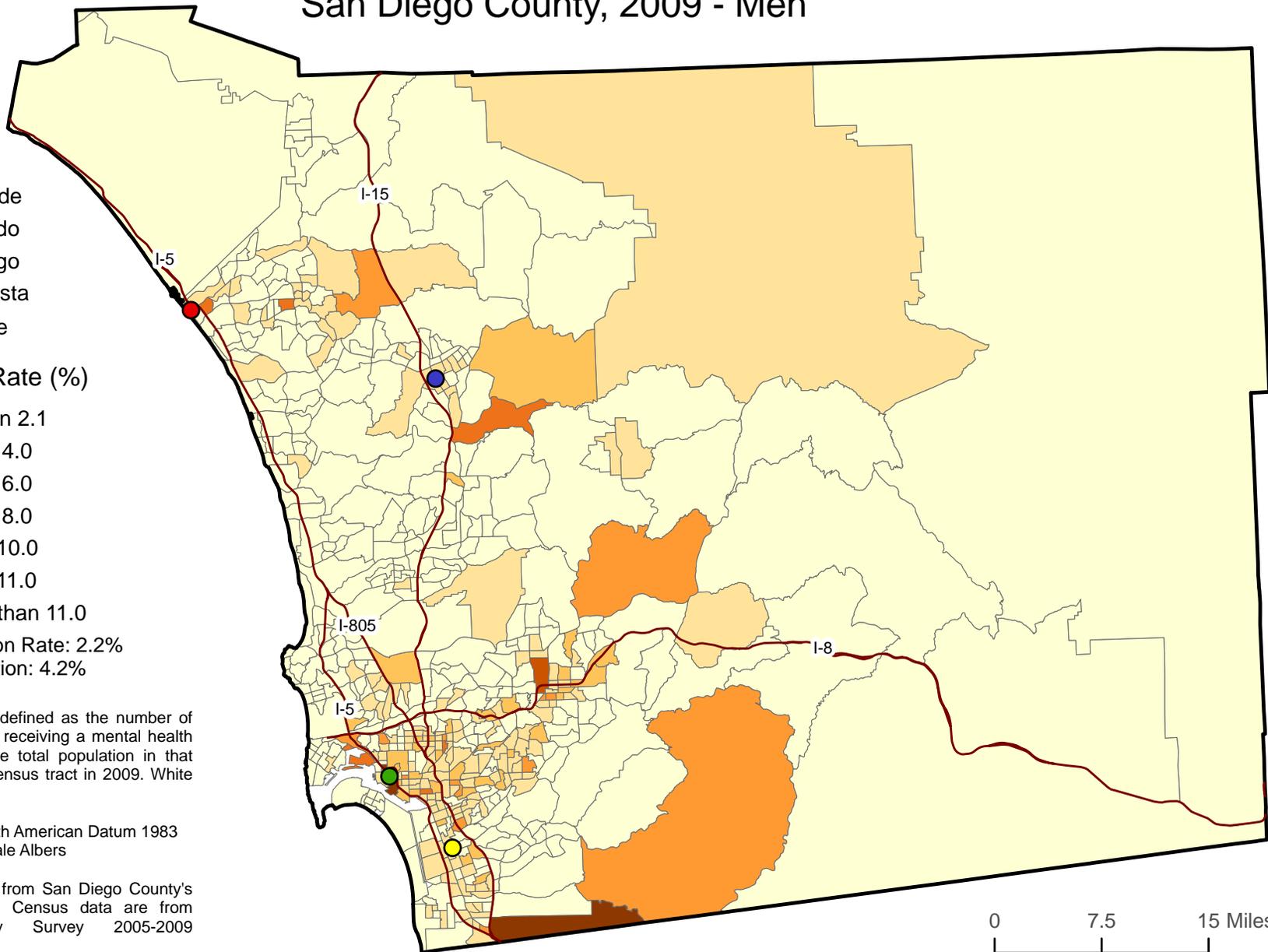
Mean Penetration Rate: 2.2%
Standard Deviation: 4.2%

***Notes:**

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database. Census data are from American Community Survey 2005-2009 estimates.

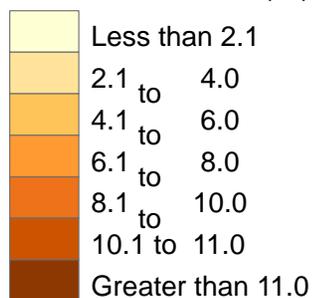


Access* to Mental Health Care Services

San Diego County, 2009 - Women

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

Penetration Rate (%)



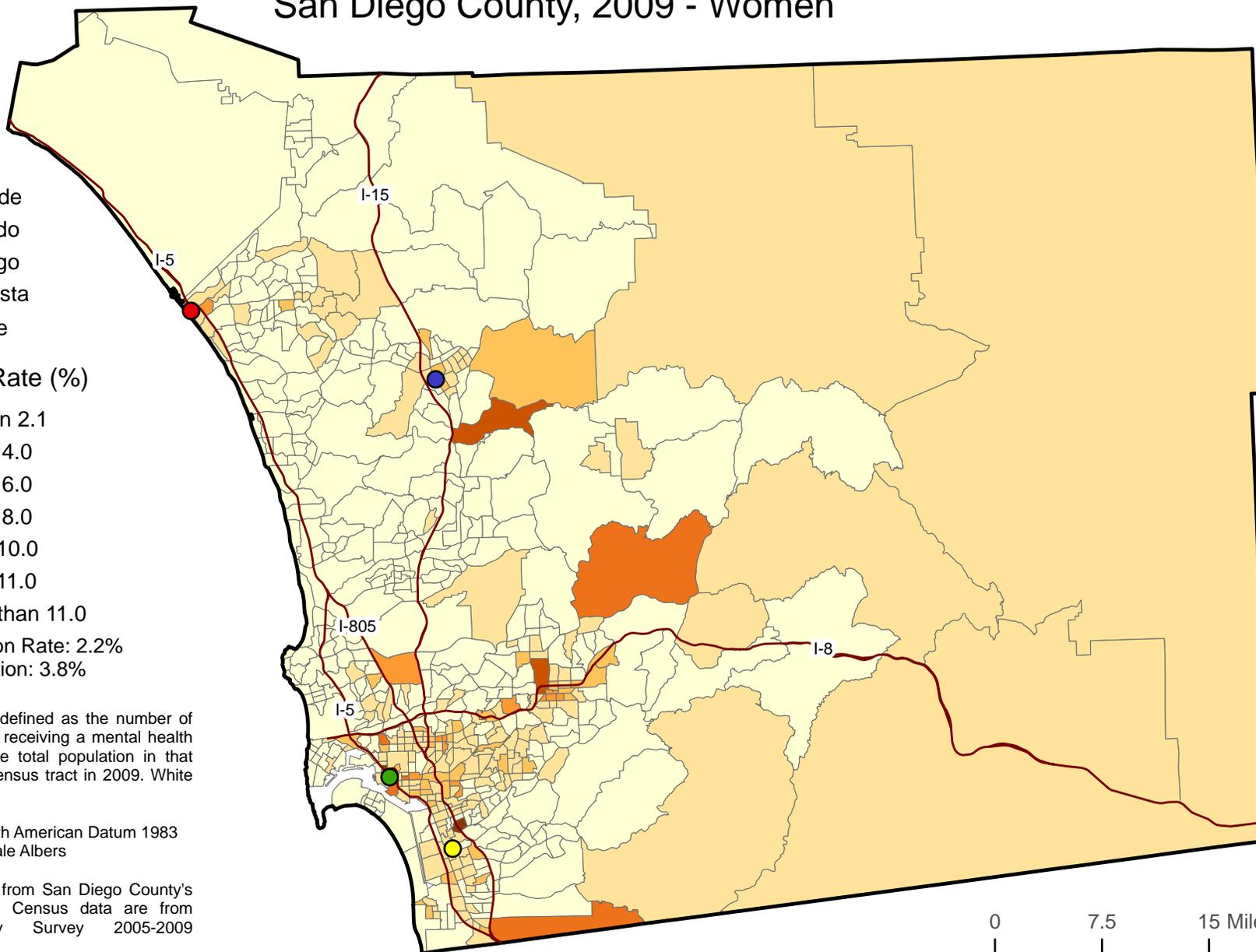
Mean Penetration Rate: 2.2%
Standard Deviation: 3.8%

*Notes:

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database. Census data are from American Community Survey 2005-2009 estimates.

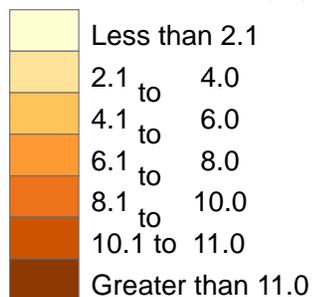


Access* to Mental Health Care Services

San Diego County, 2009 - White

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

Penetration Rate (%)



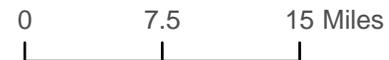
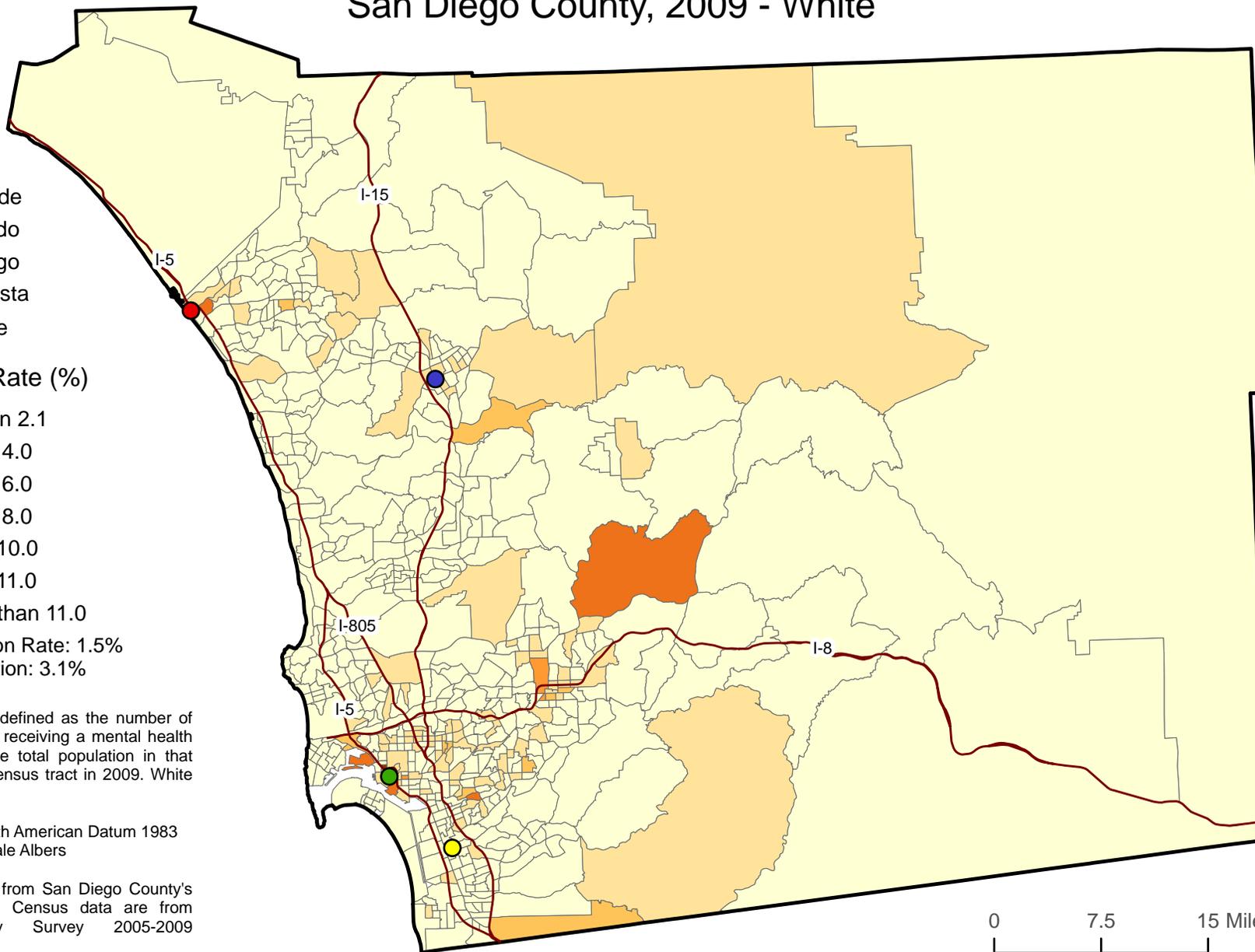
Mean Penetration Rate: 1.5%
Standard Deviation: 3.1%

***Notes:**

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database. Census data are from American Community Survey 2005-2009 estimates.

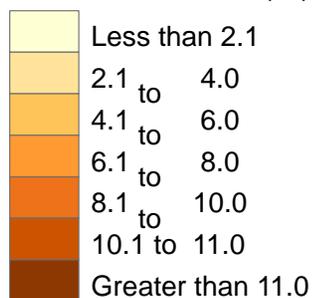


Access* to Mental Health Care Services

San Diego County, 2009 - Black

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

Penetration Rate (%)



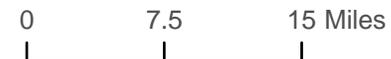
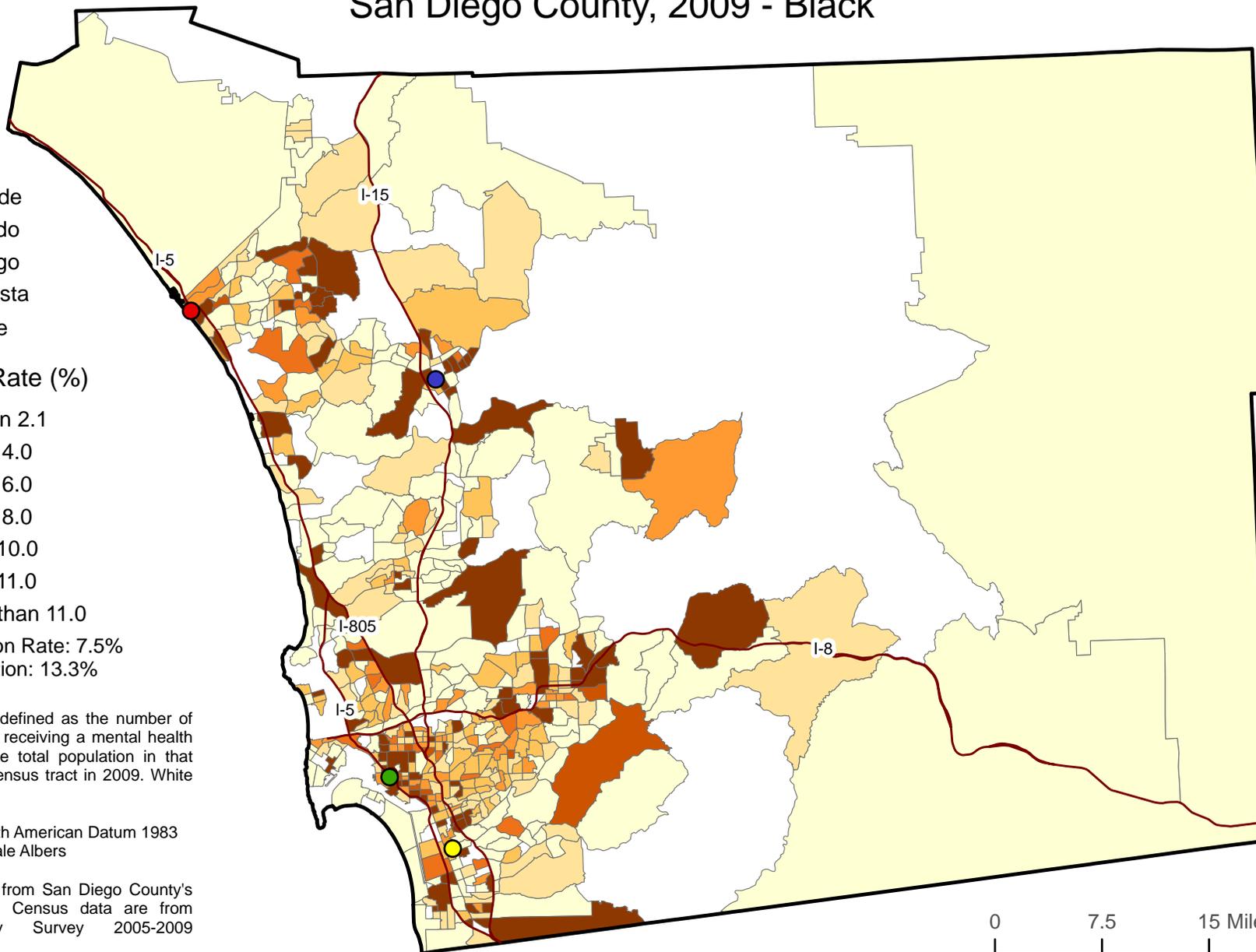
Mean Penetration Rate: 7.5%
Standard Deviation: 13.3%

*Notes:

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database. Census data are from American Community Survey 2005-2009 estimates.

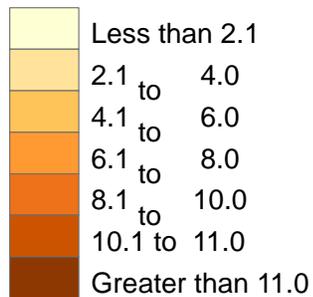


Access* to Mental Health Care Services

San Diego County, 2009 - Asian and Pacific Islander

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

Penetration Rate (%)



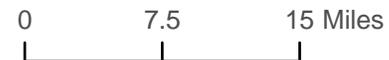
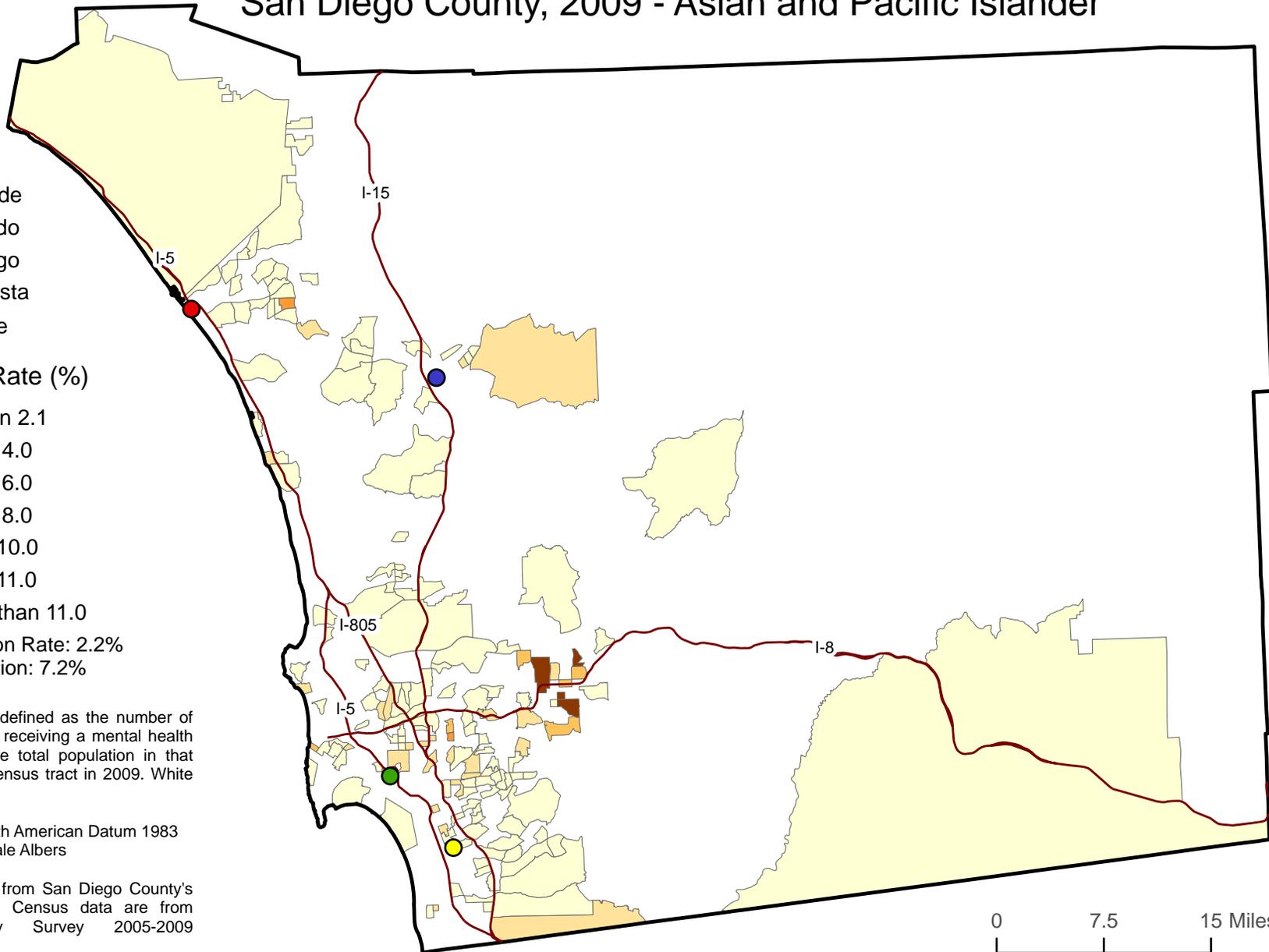
Mean Penetration Rate: 2.2%
Standard Deviation: 7.2%

*Notes:

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

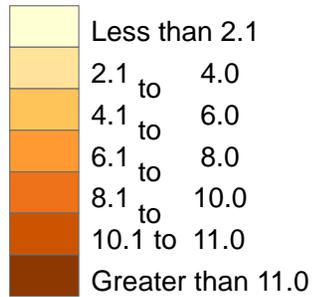
Mental Health data are from San Diego County's MIS-Anasazi Database. Census data are from American Community Survey 2005-2009 estimates.



Access* to Mental Health Care Services San Diego County, 2009 - Native American

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

Penetration Rate (%)



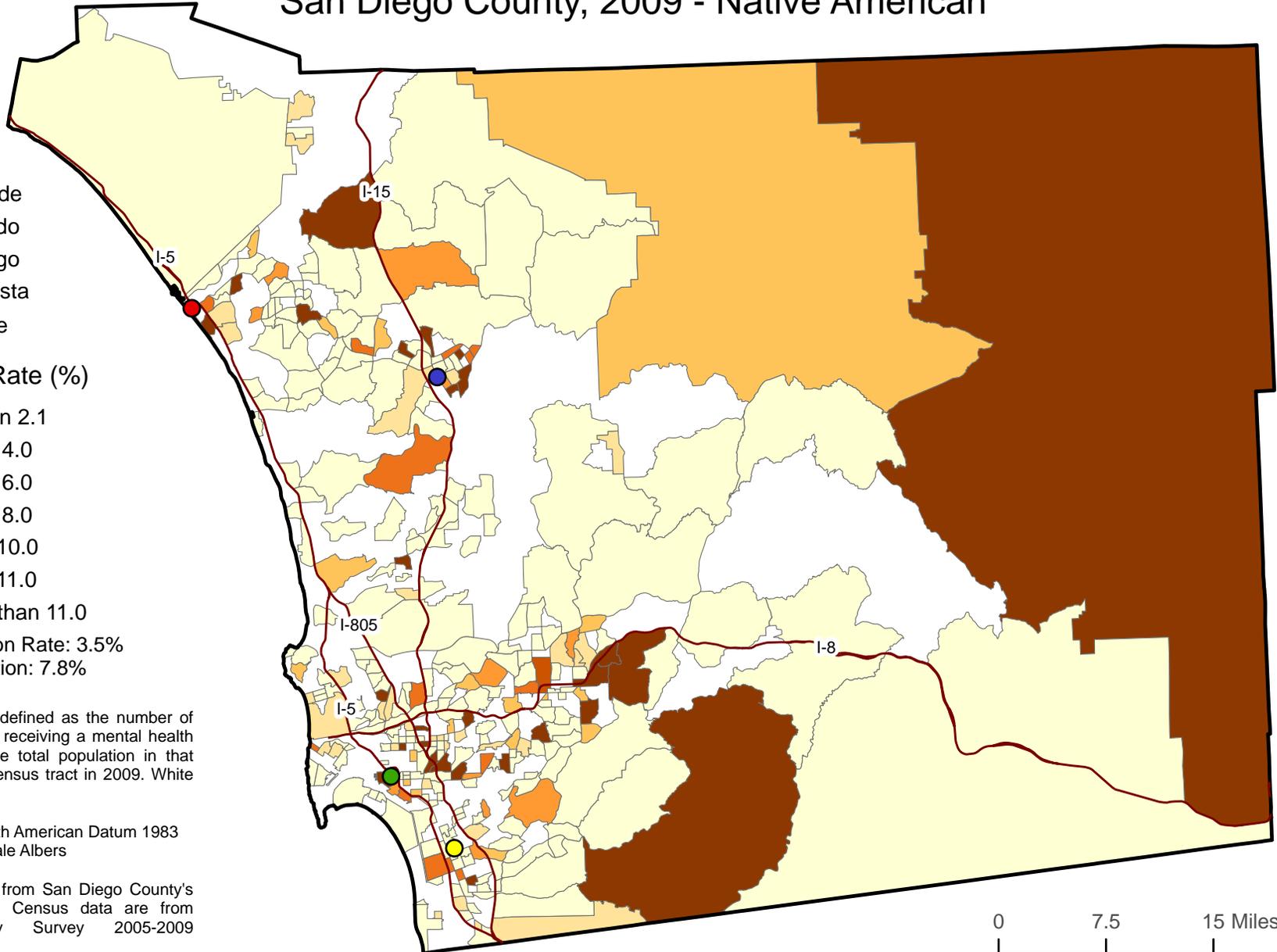
Mean Penetration Rate: 3.5%
Standard Deviation: 7.8%

*Notes:

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database. Census data are from American Community Survey 2005-2009 estimates.

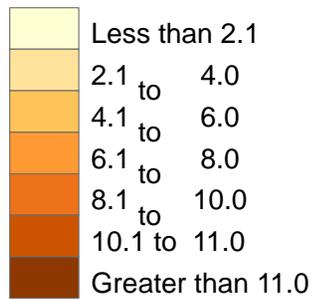


Access* to Mental Health Care Services

San Diego County, 2009 - Other

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

Penetration Rate (%)

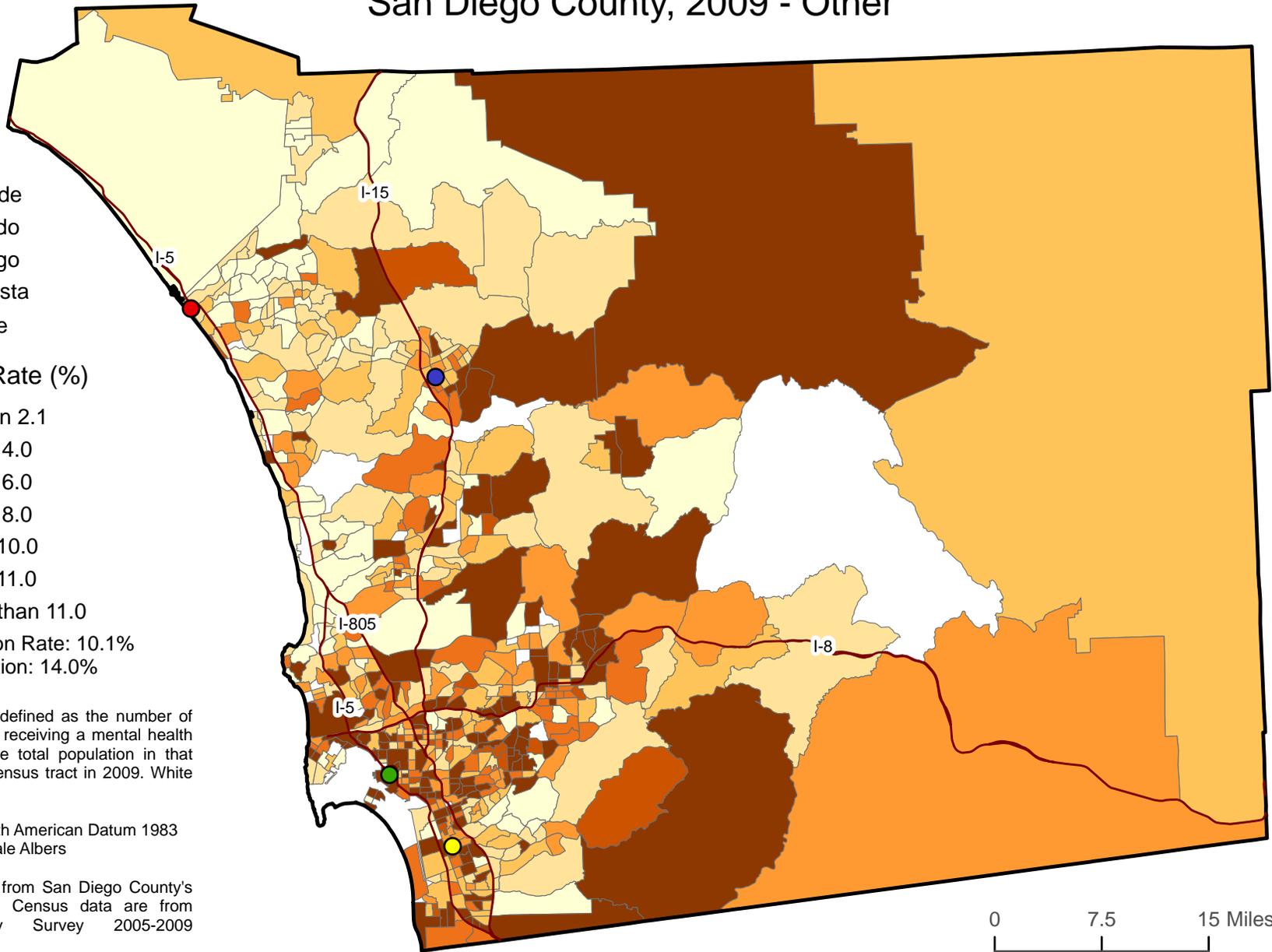


Mean Penetration Rate: 10.1%
Standard Deviation: 14.0%

*Notes:
The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database. Census data are from American Community Survey 2005-2009 estimates.

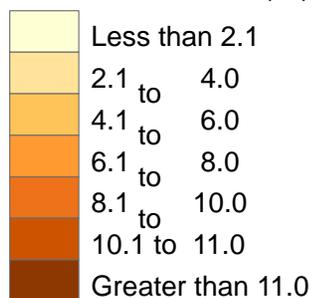


Access* to Mental Health Care Services

San Diego County, 2009 - Hispanic

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

Penetration Rate (%)



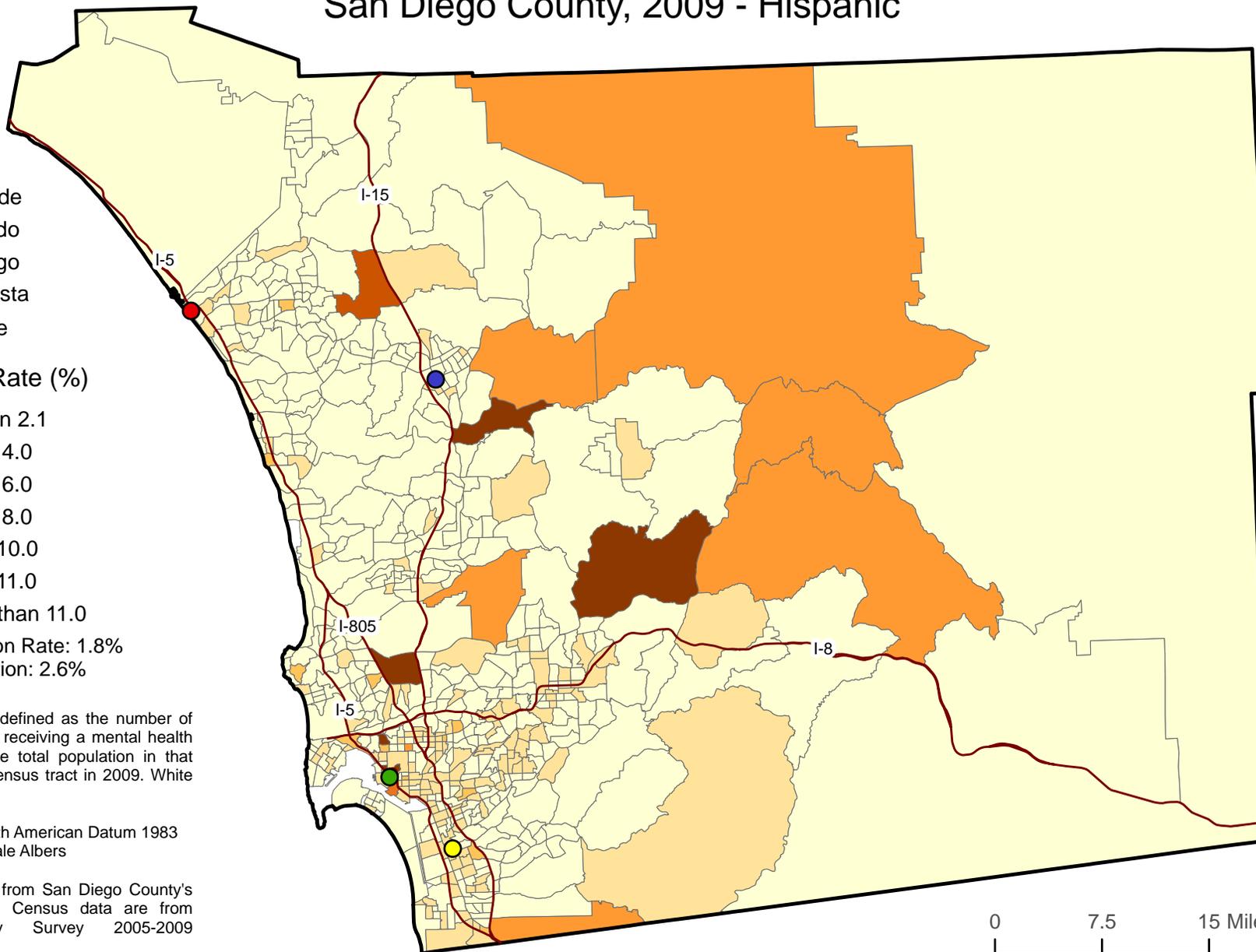
Mean Penetration Rate: 1.8%
Standard Deviation: 2.6%

*Notes:

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database. Census data are from American Community Survey 2005-2009 estimates.

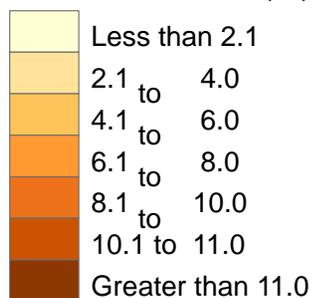


Access* to Mental Health Care Services

San Diego County, 2009 - Not Hispanic

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

Penetration Rate (%)



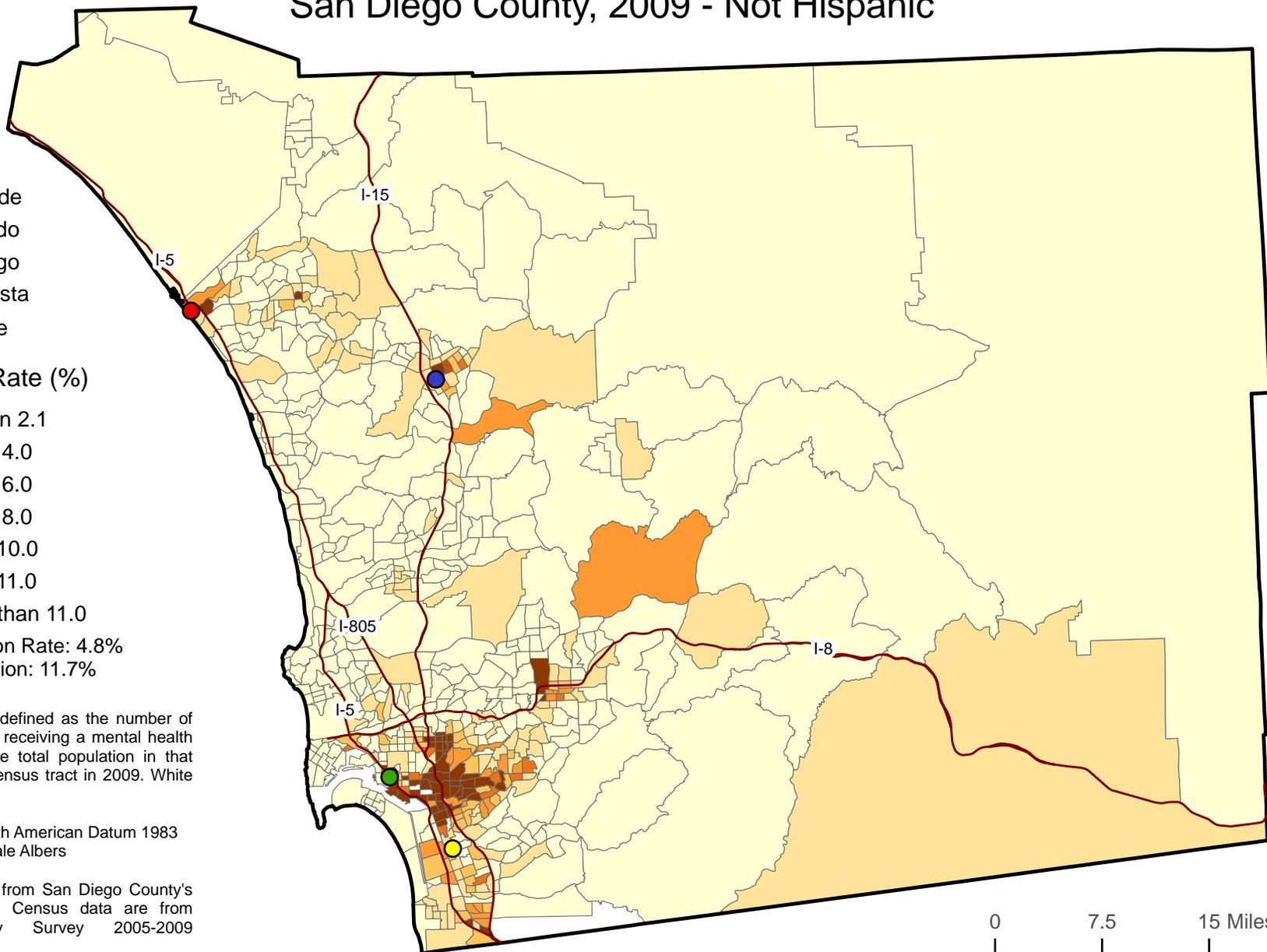
Mean Penetration Rate: 4.8%
Standard Deviation: 11.7%

*Notes:

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database. Census data are from American Community Survey 2005-2009 estimates.



Access* to Mental Health Care Services

San Diego County, 2009 - Ages 12-64

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Access to Mental Health Care Services

- Much less access ($p < 0.01$)
- Less access ($p < 0.05$)
- Equivalent to the county mean
- More access ($p < 0.05$)
- Much more access ($p < 0.01$)

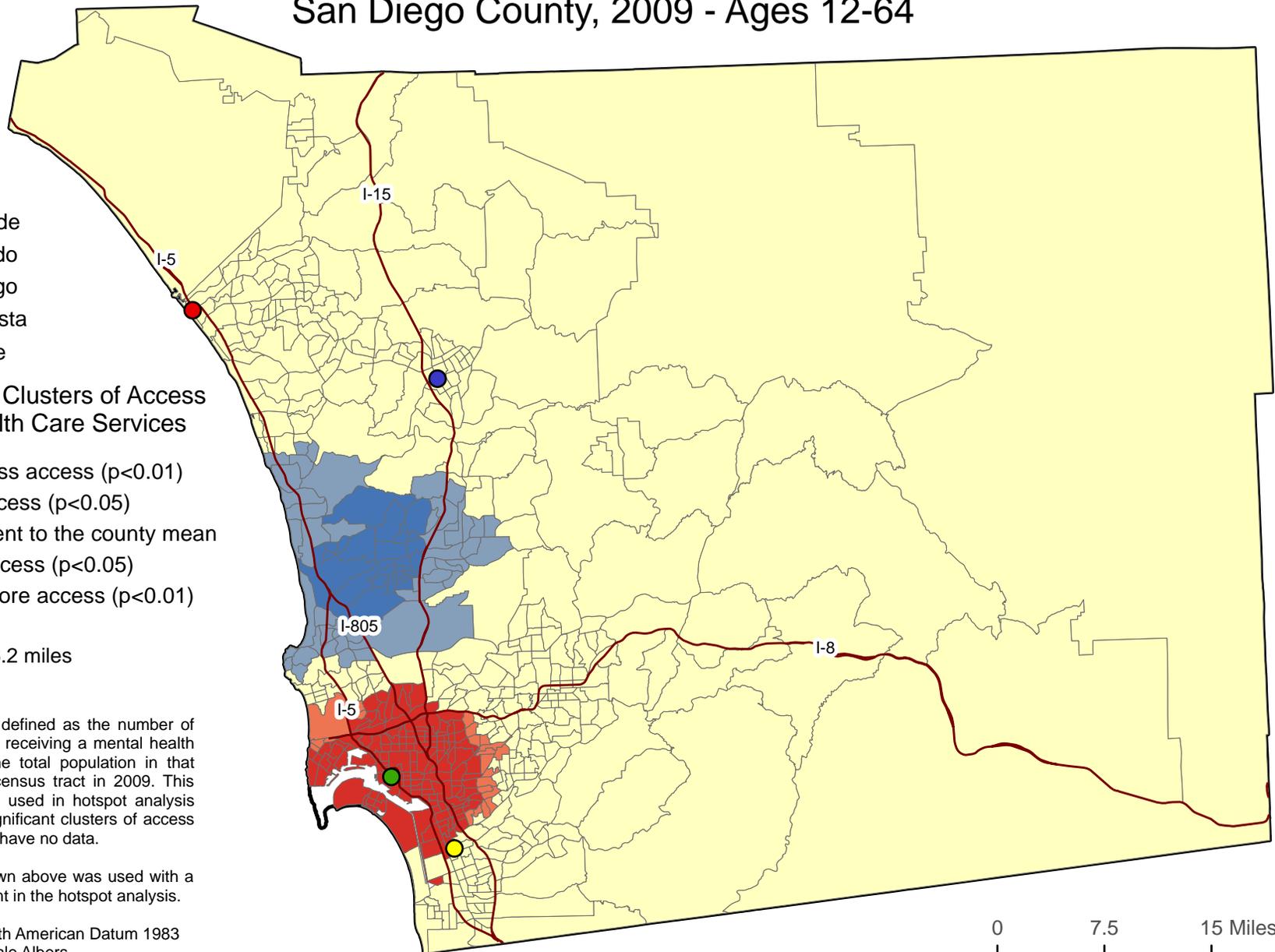
Distance Band: 6.2 miles

*Notes:

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. This penetration rate is then used in hotspot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers



Access* to Mental Health Care Services

San Diego County, 2009 - Ages 12-19

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Access to Mental Health Care Services

- Much less access ($p < 0.01$)
- Less access ($p < 0.05$)
- Equivalent to the county mean
- More access ($p < 0.05$)
- Much more access ($p < 0.01$)

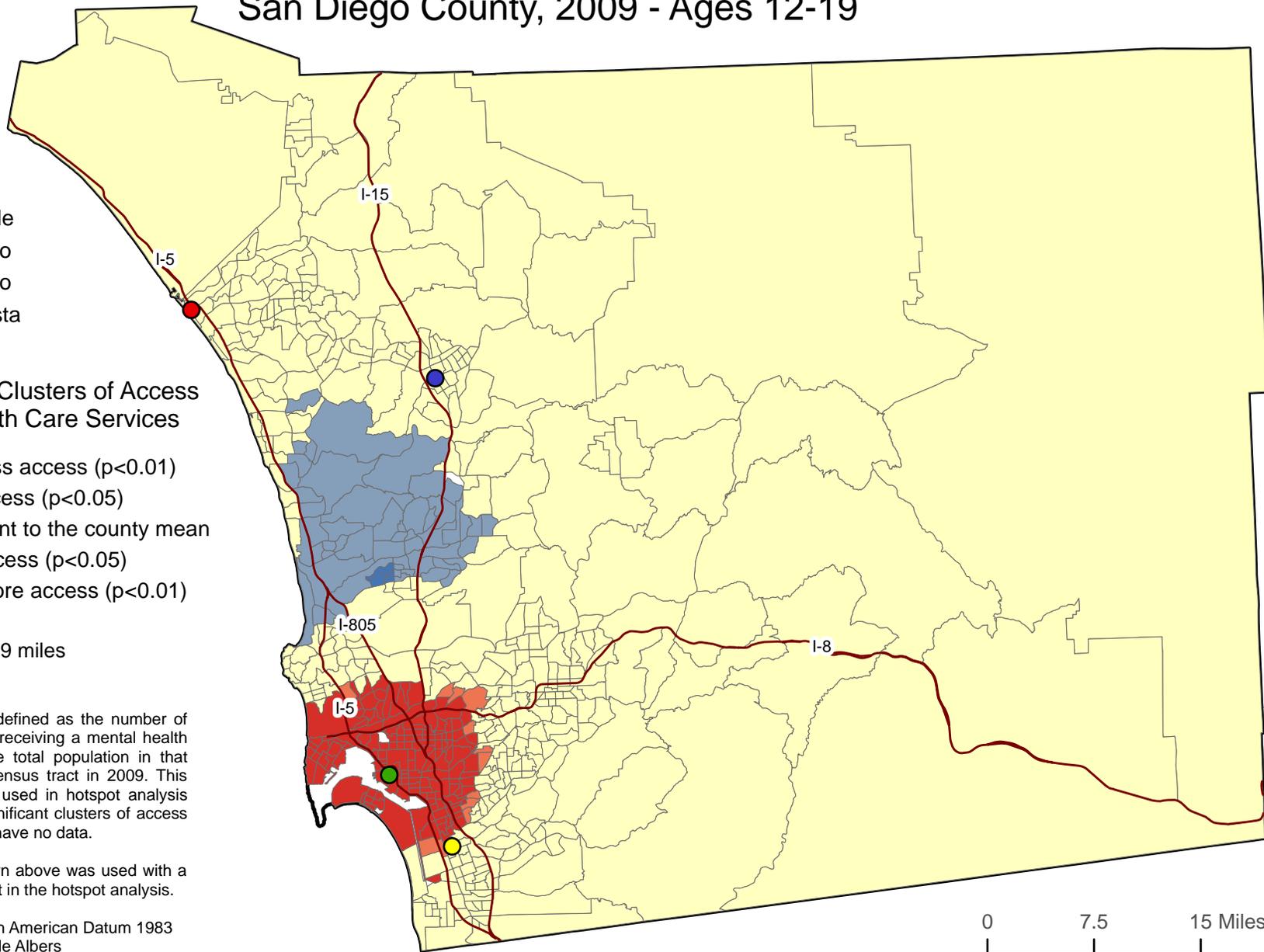
Distance Band: 5.9 miles

***Notes:**

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. This penetration rate is then used in hotspot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers



Access* to Mental Health Care Services

San Diego County, 2009 - Ages 20-24

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Access to Mental Health Care Services

- Much less access ($p < 0.01$)
- Less access ($p < 0.05$)
- Equivalent to the county mean
- More access ($p < 0.05$)
- Much more access ($p < 0.01$)

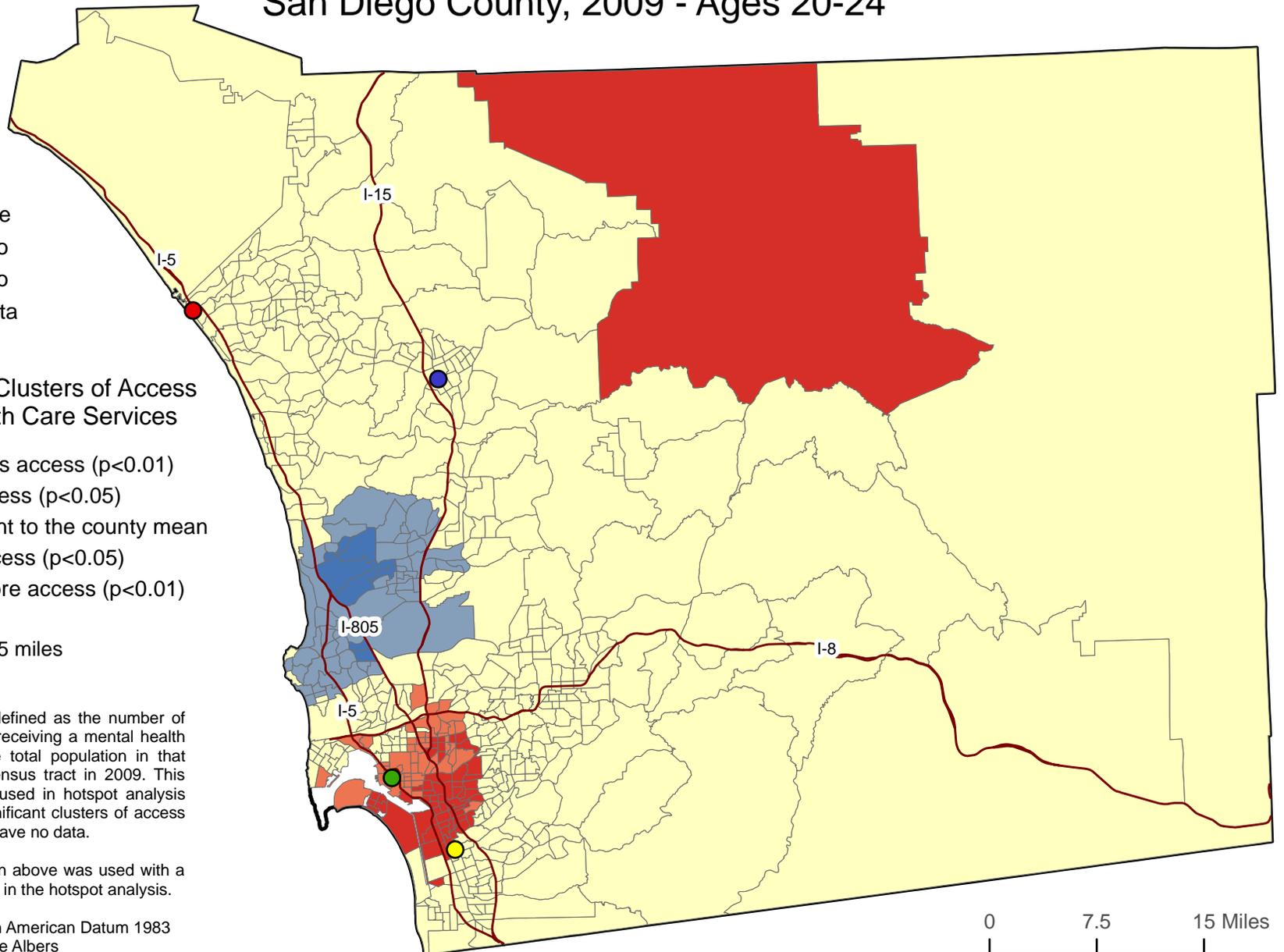
Distance Band: 6.5 miles

*Notes:

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. This penetration rate is then used in hotspot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

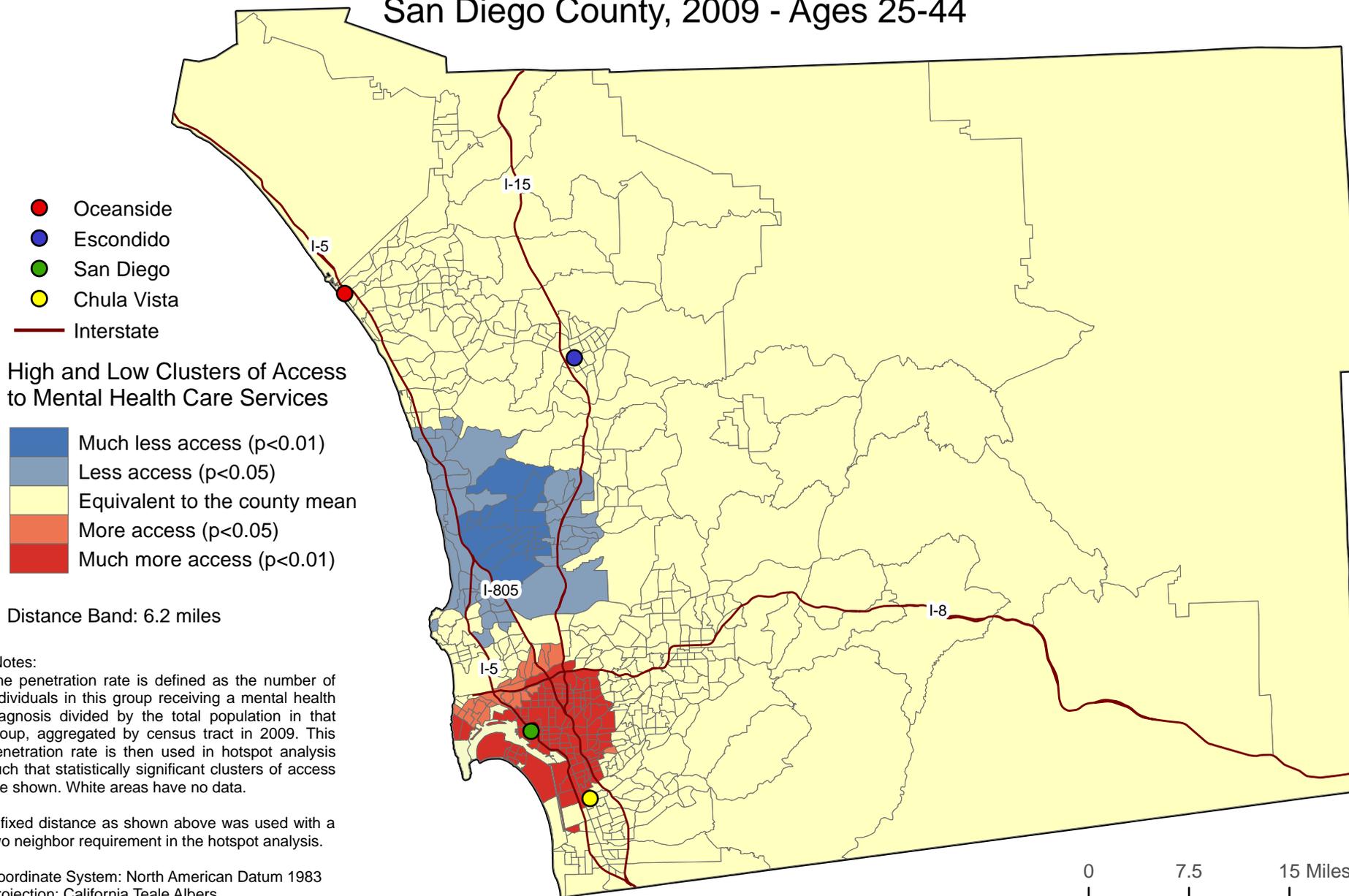
Coordinate System: North American Datum 1983
Projection: California Teale Albers



0 7.5 15 Miles

Access* to Mental Health Care Services

San Diego County, 2009 - Ages 25-44



Access* to Mental Health Care Services

San Diego County, 2009 - Ages 45-54

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Access to Mental Health Care Services

- Much less access ($p < 0.01$)
- Less access ($p < 0.05$)
- Equivalent to the county mean
- More access ($p < 0.05$)
- Much more access ($p < 0.01$)

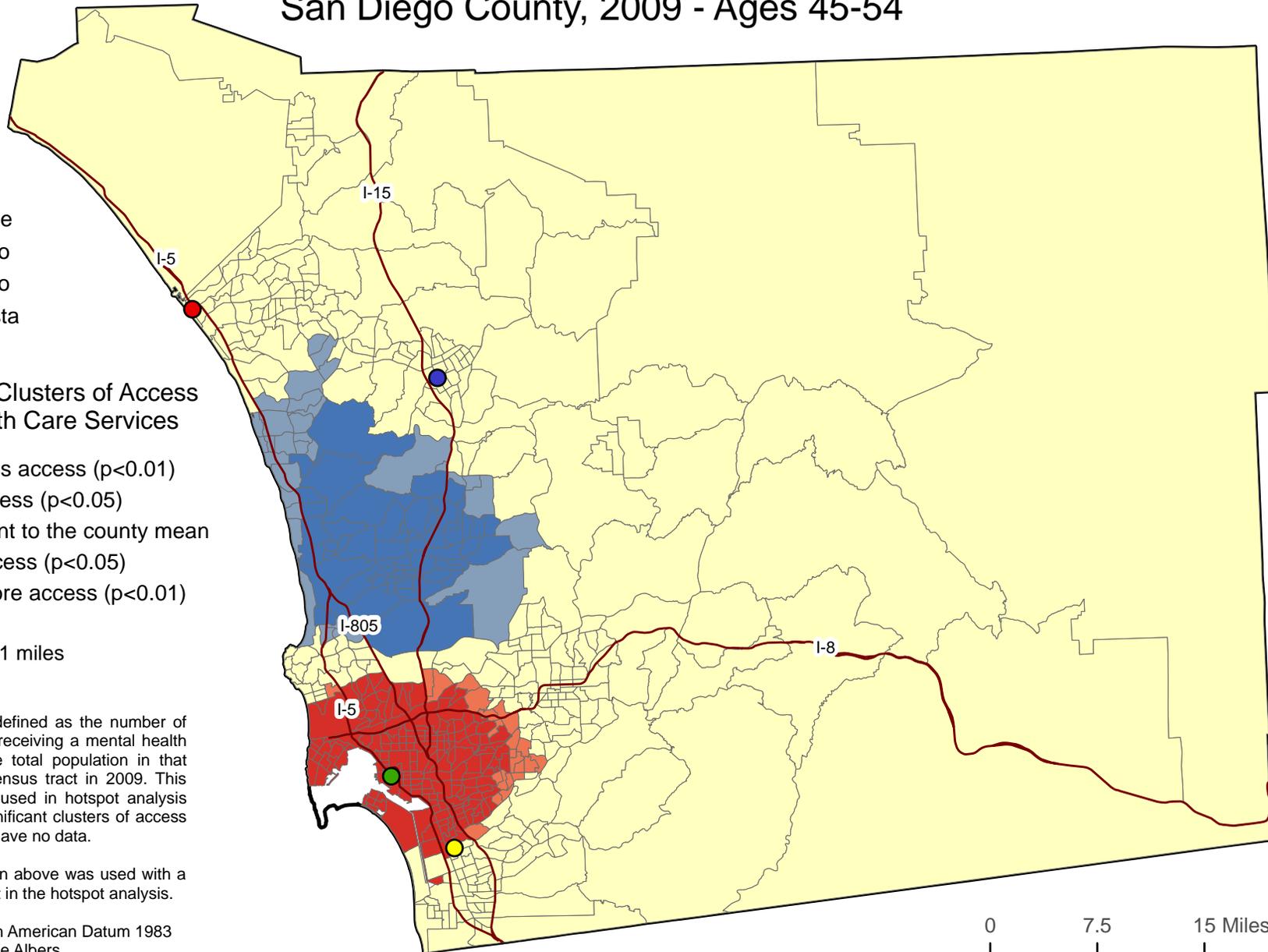
Distance Band: 7.1 miles

***Notes:**

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. This penetration rate is then used in hotspot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers



Access* to Mental Health Care Services

San Diego County, 2009 - Ages 55-64

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Access to Mental Health Care Services

- Much less access ($p < 0.01$)
- Less access ($p < 0.05$)
- Equivalent to the county mean
- More access ($p < 0.05$)
- Much more access ($p < 0.01$)

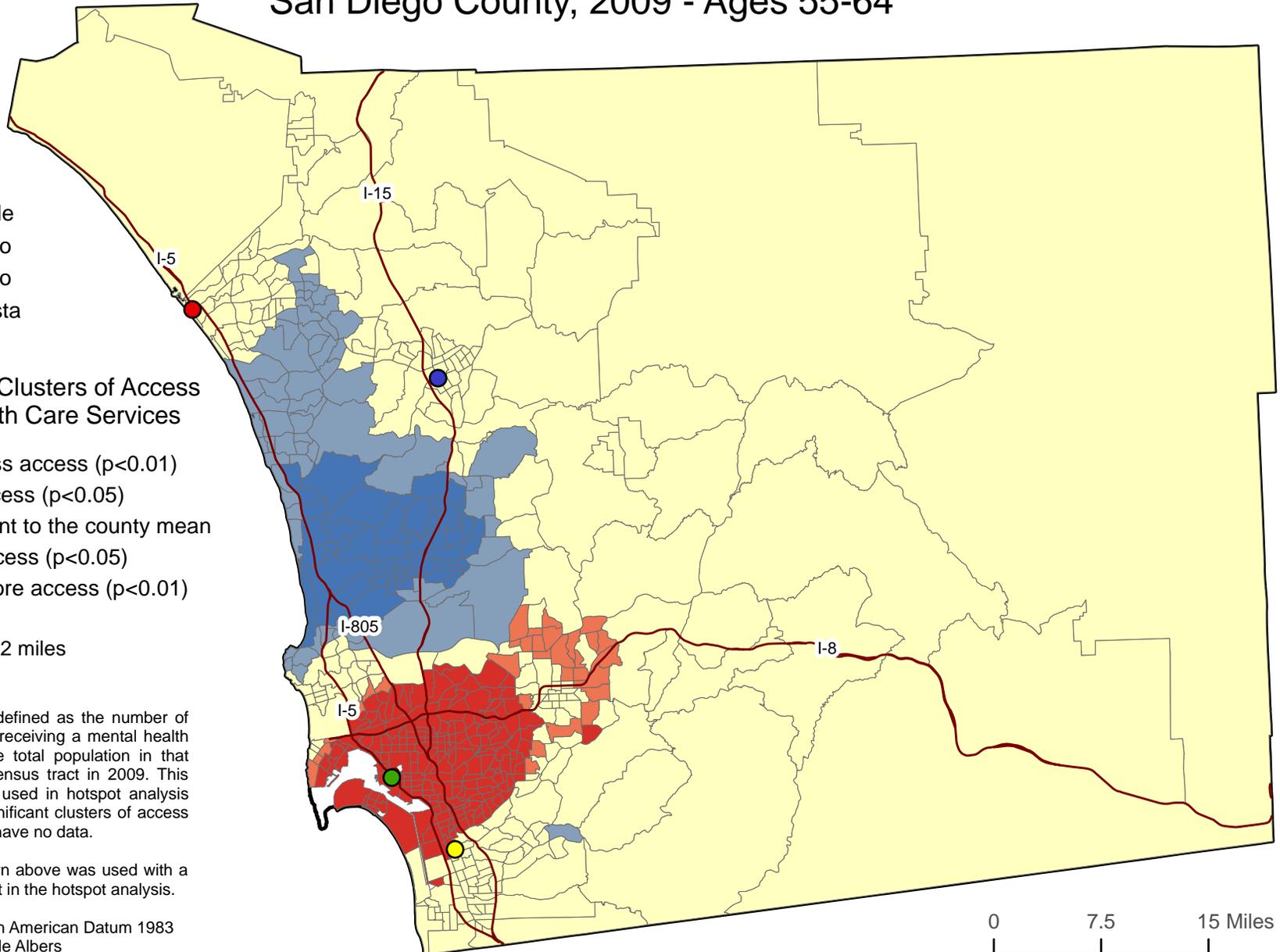
Distance Band: 6.2 miles

***Notes:**

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. This penetration rate is then used in hotspot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers



Access* to Mental Health Care Services

San Diego County, 2009 - Men

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Access to Mental Health Care Services

- Much less access ($p < 0.01$)
- Less access ($p < 0.05$)
- Equivalent to the county mean
- More access ($p < 0.05$)
- Much more access ($p < 0.01$)

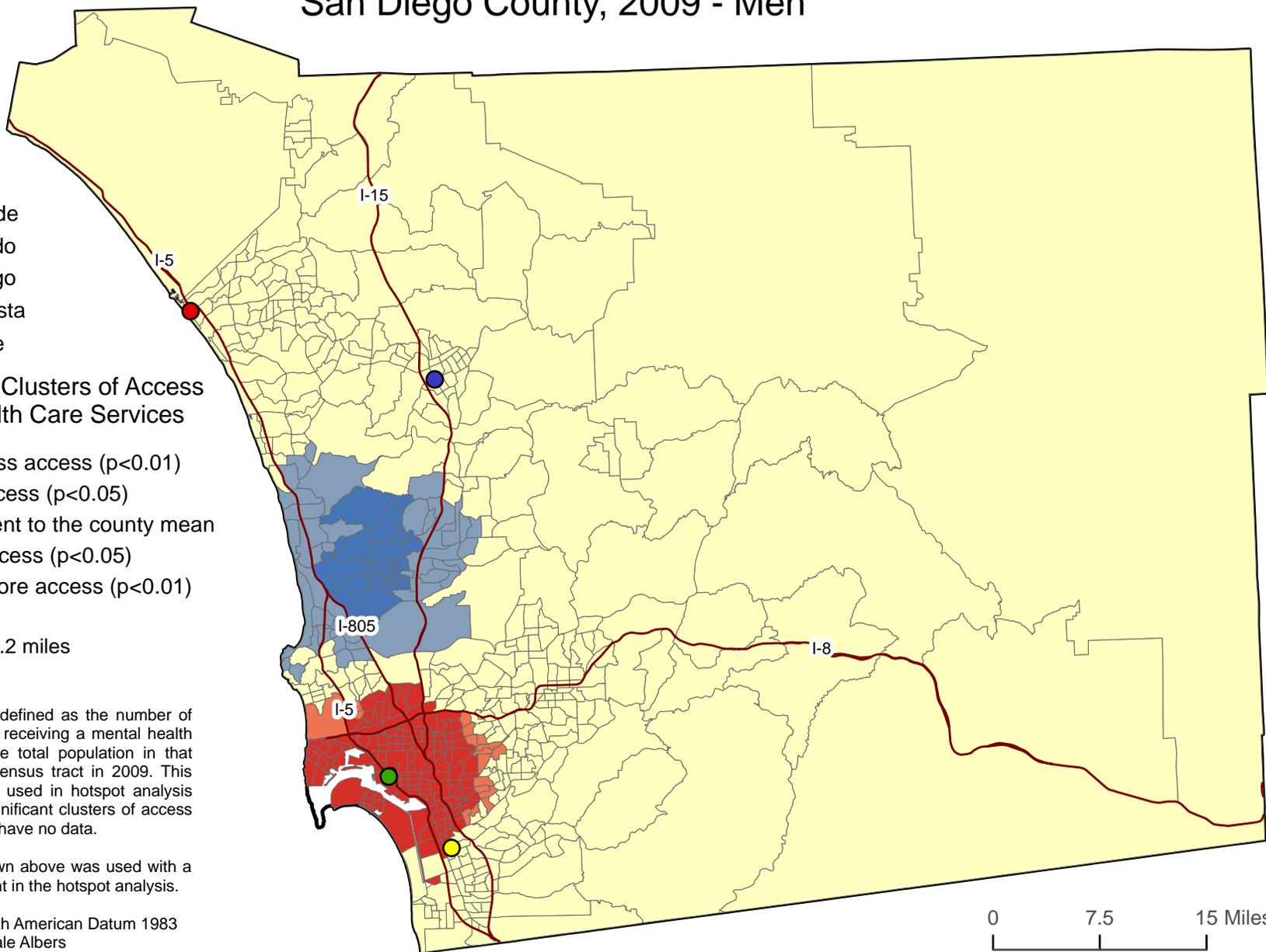
Distance Band: 6.2 miles

***Notes:**

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. This penetration rate is then used in hotspot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers



Access* to Mental Health Care Services

San Diego County, 2009 - Women

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Access to Mental Health Care Services

- Much less access ($p < 0.01$)
- Less access ($p < 0.05$)
- Equivalent to the county mean
- More access ($p < 0.05$)
- Much more access ($p < 0.01$)

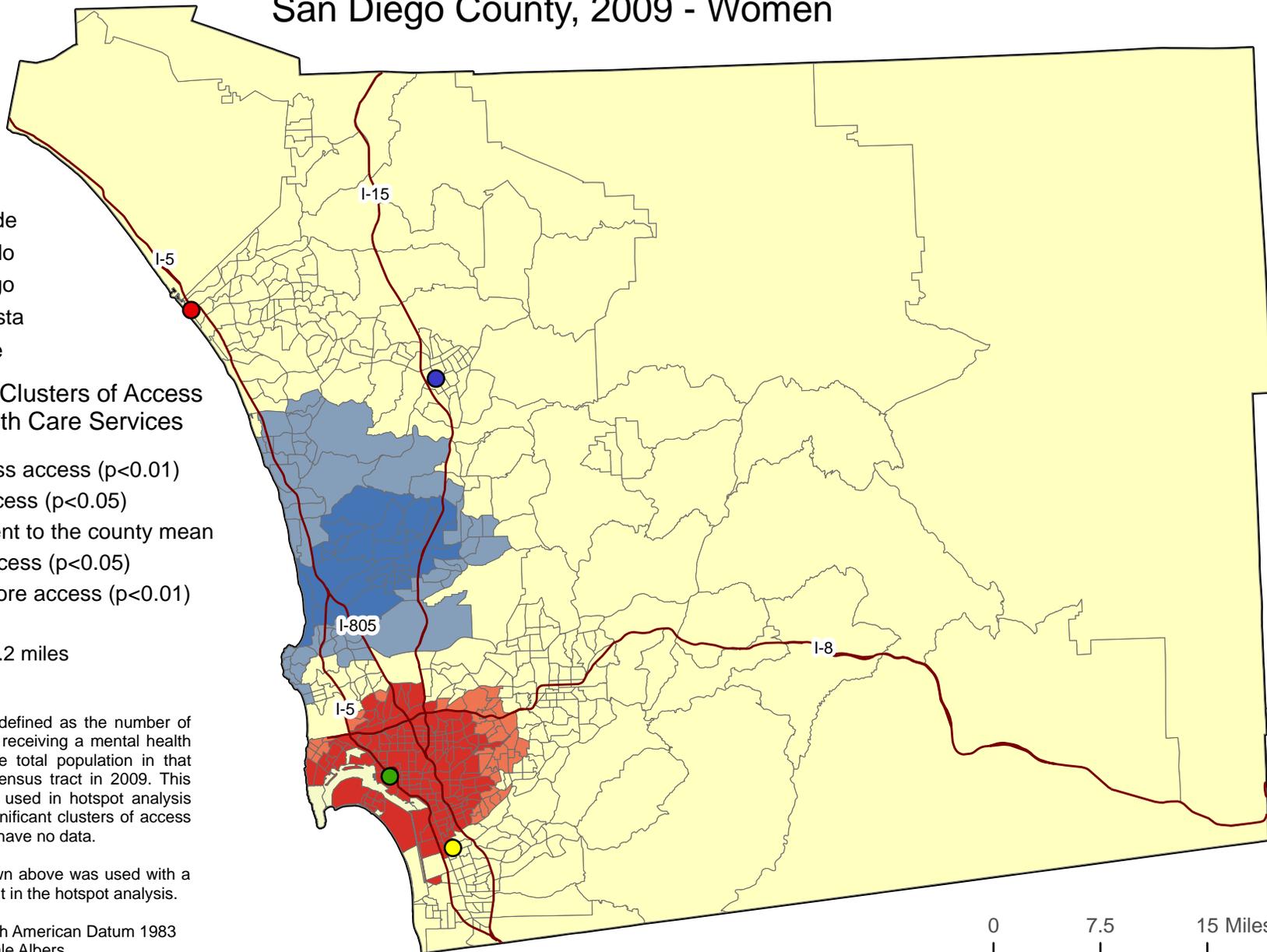
Distance Band: 6.2 miles

***Notes:**

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. This penetration rate is then used in hotspot analysis such that statistically significant clusters of access are shown. White areas have no data.

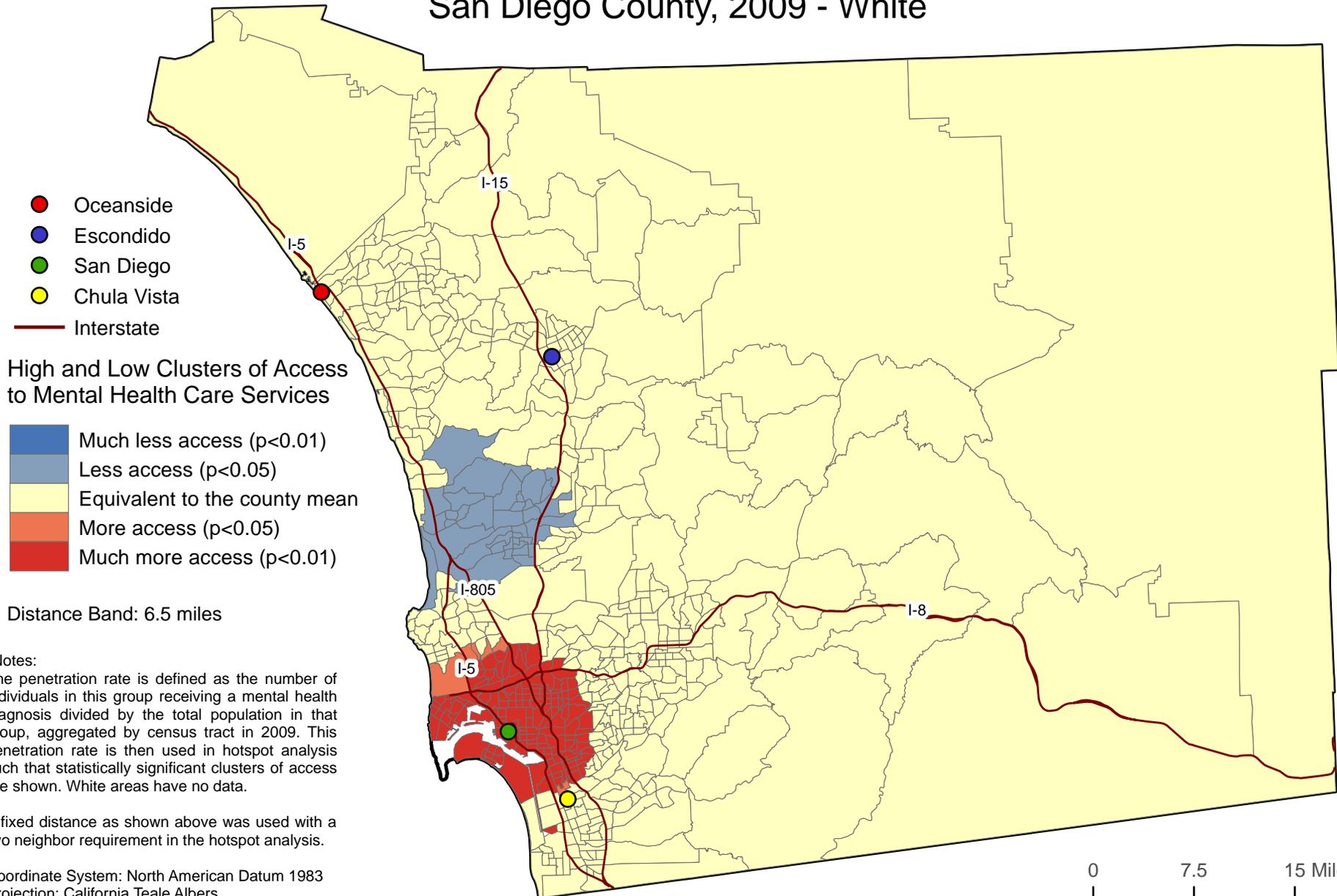
A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers



Access* to Mental Health Care Services

San Diego County, 2009 - White



Access* to Mental Health Care Services

San Diego County, 2009 - Black

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Access to Mental Health Care Services

- Much less access ($p < 0.01$)
- Less access ($p < 0.05$)
- Equivalent to the county mean
- More access ($p < 0.05$)
- Much more access ($p < 0.01$)

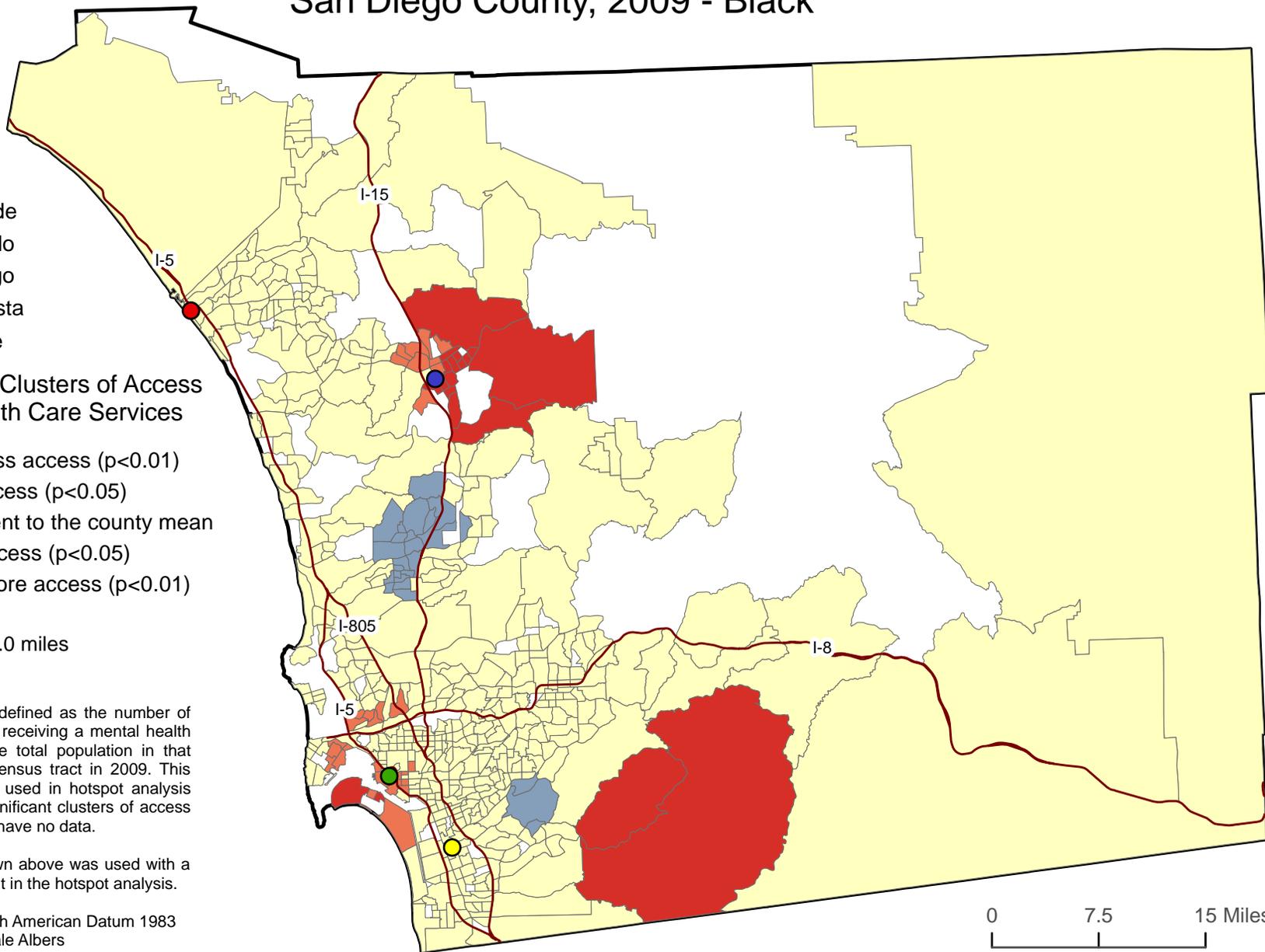
Distance Band: 5.0 miles

***Notes:**

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. This penetration rate is then used in hotspot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers



Access* to Mental Health Care Services

San Diego County, 2009 - Asian And Pacific Islander

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Access to Mental Health Care Services

- Much less access ($p < 0.01$)
- Less access ($p < 0.05$)
- Equivalent to the county mean
- More access ($p < 0.05$)
- Much more access ($p < 0.01$)

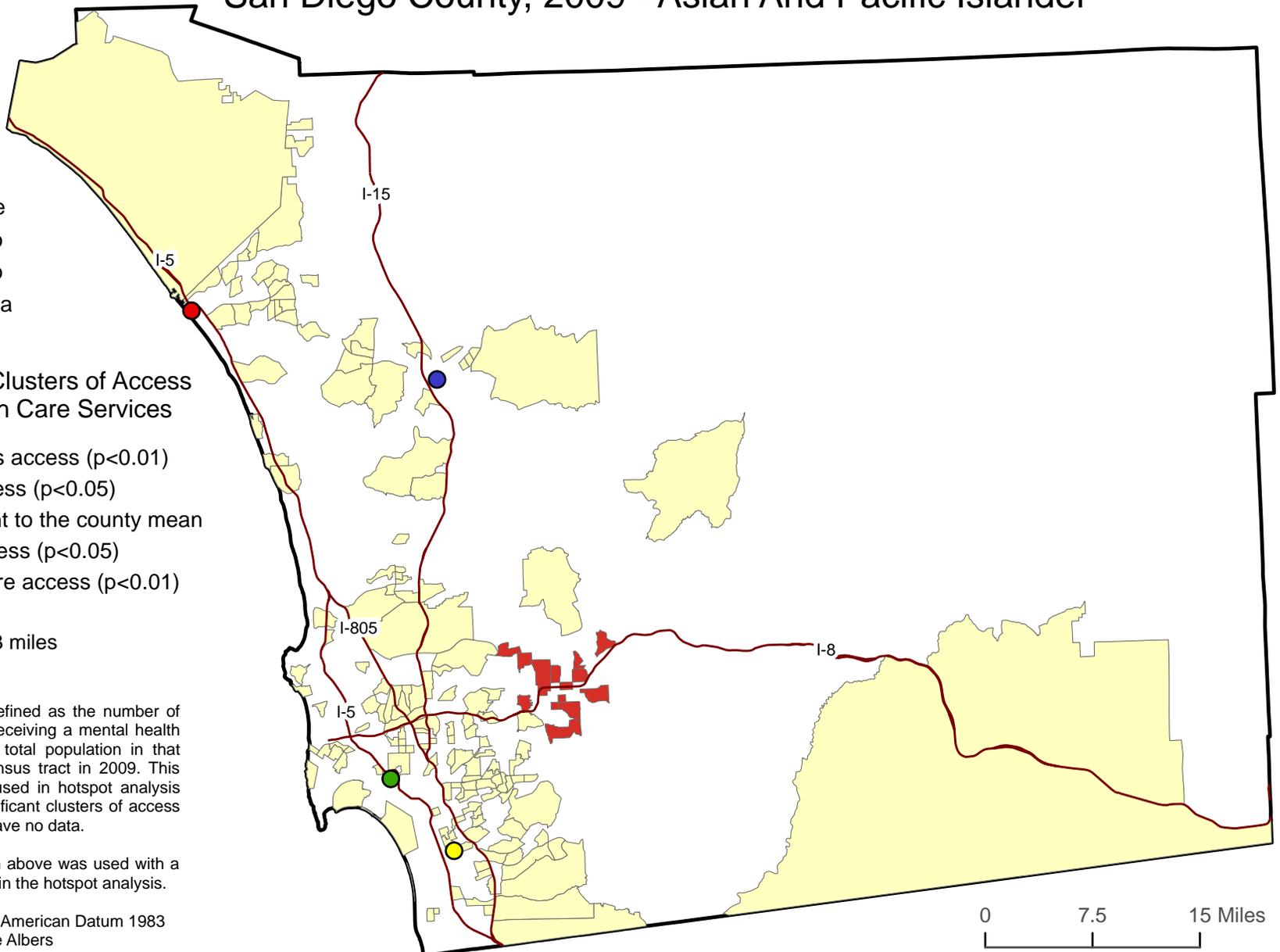
Distance Band: 5.3 miles

***Notes:**

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. This penetration rate is then used in hotspot analysis such that statistically significant clusters of access are shown. White areas have no data.

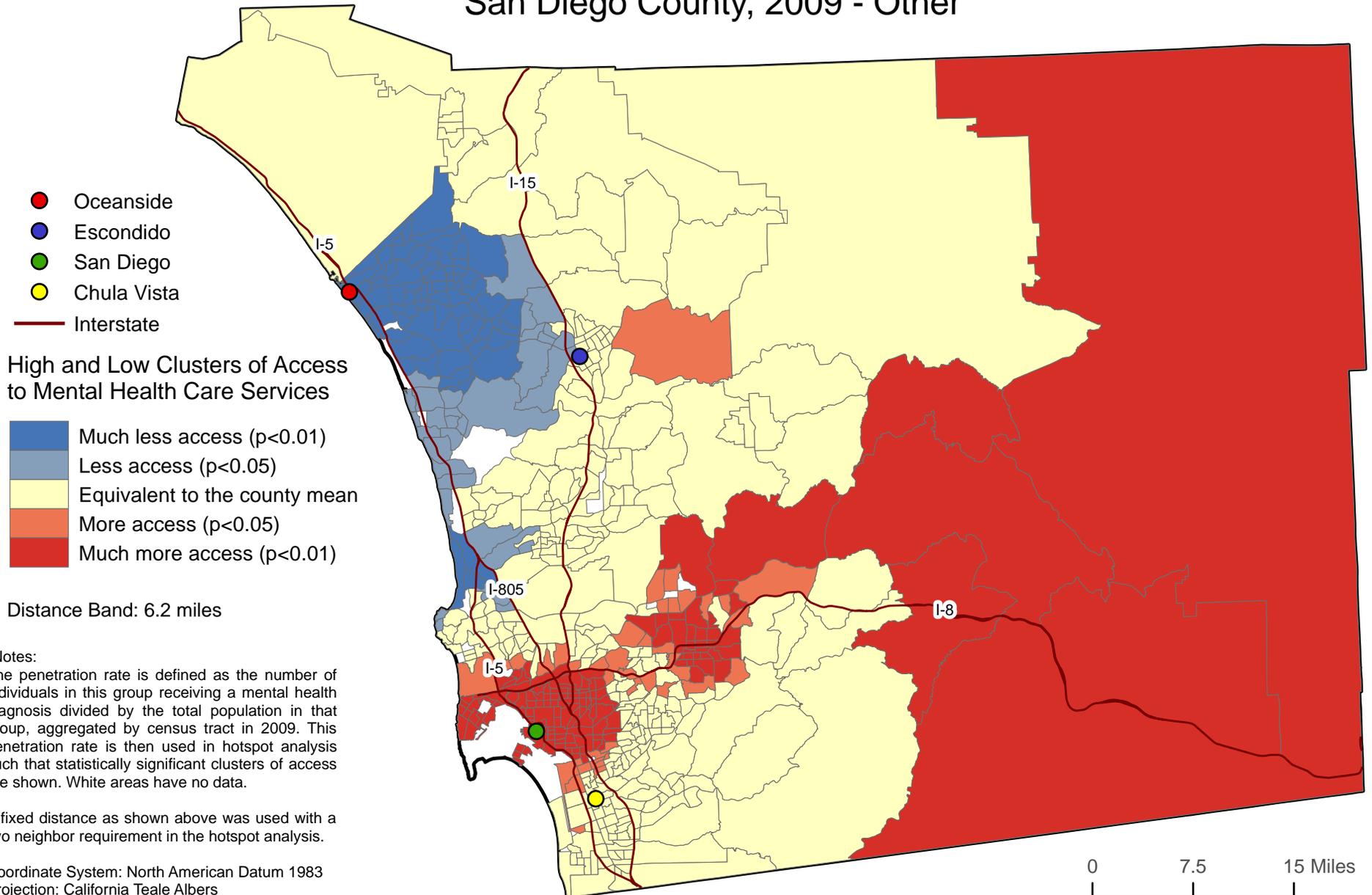
A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers



Access* to Mental Health Care Services

San Diego County, 2009 - Other



Access* to Mental Health Care Services

San Diego County, 2009 - Hispanic

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Access to Mental Health Care Services

- Much less access ($p < 0.01$)
- Less access ($p < 0.05$)
- Equivalent to the county mean
- More access ($p < 0.05$)
- Much more access ($p < 0.01$)

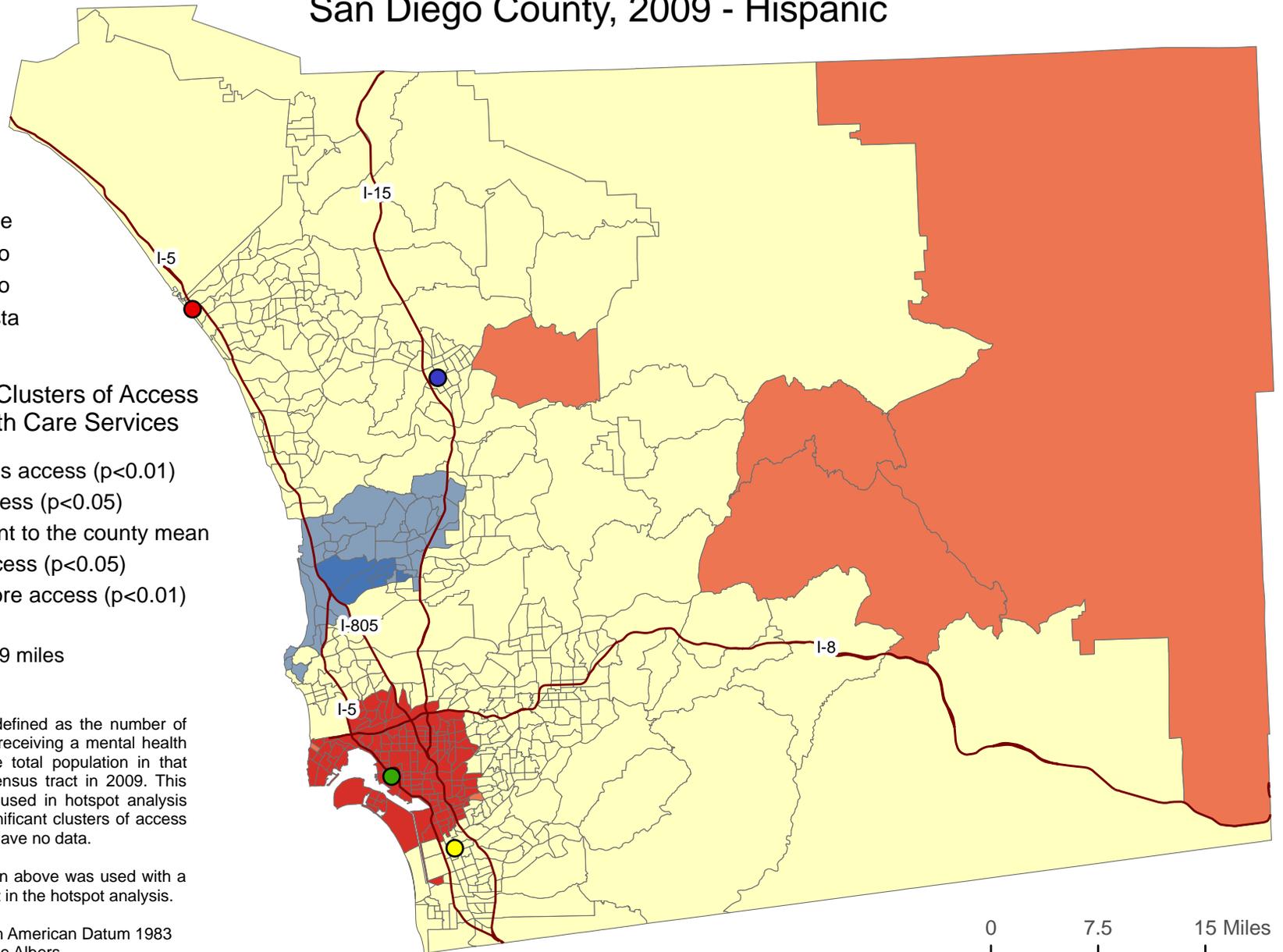
Distance Band: 5.9 miles

*Notes:

The penetration rate is defined as the number of individuals in this group receiving a mental health diagnosis divided by the total population in that group, aggregated by census tract in 2009. This penetration rate is then used in hotspot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

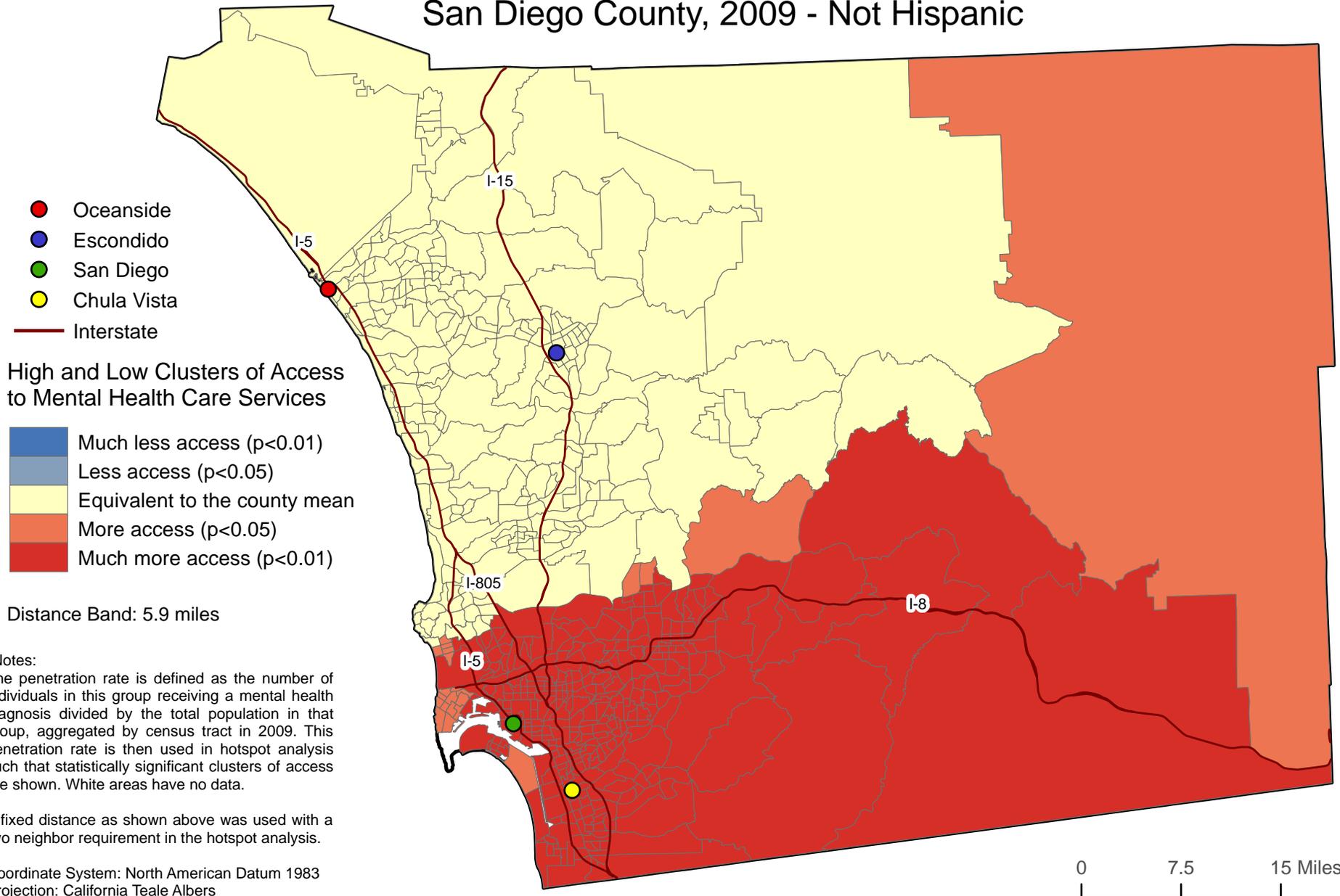
Coordinate System: North American Datum 1983
Projection: California Teale Albers



0 7.5 15 Miles

Access* to Mental Health Care Services

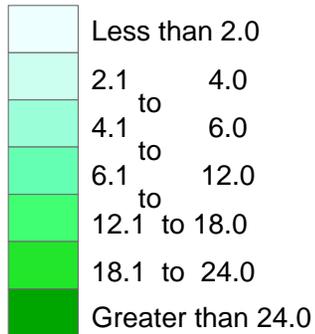
San Diego County, 2009 - Not Hispanic



Utilization Rate* of Mental Health Care Services San Diego County, 2009 - Ages 12-64

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

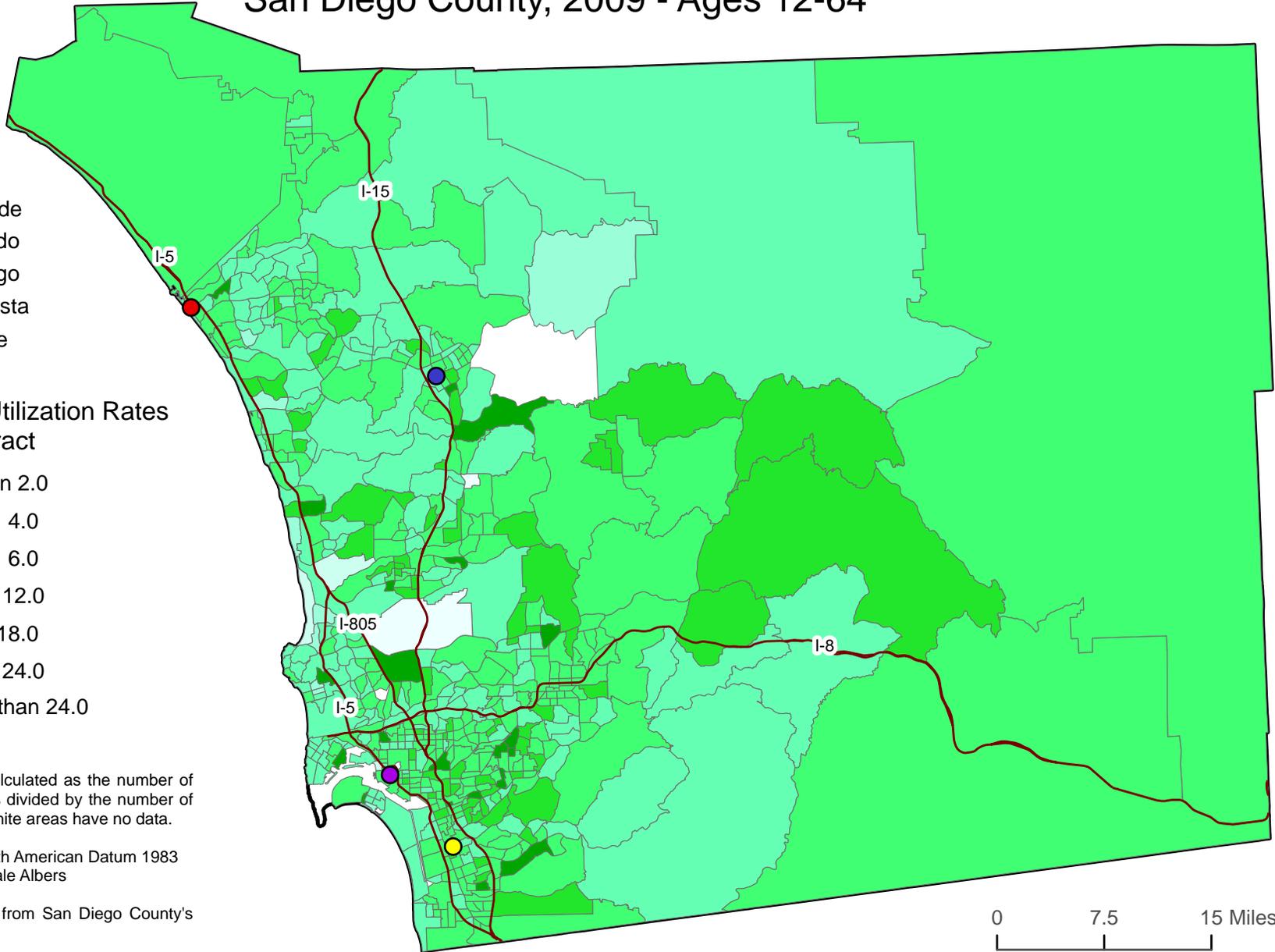
Annualized Utilization Rates by Census Tract



*Notes:
The utilization rate is calculated as the number of mental health care visits divided by the number of mental health clients. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

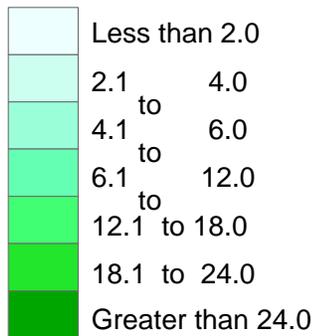
Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization Rate* of Mental Health Care Services San Diego County, 2009 - Ages 12-19

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

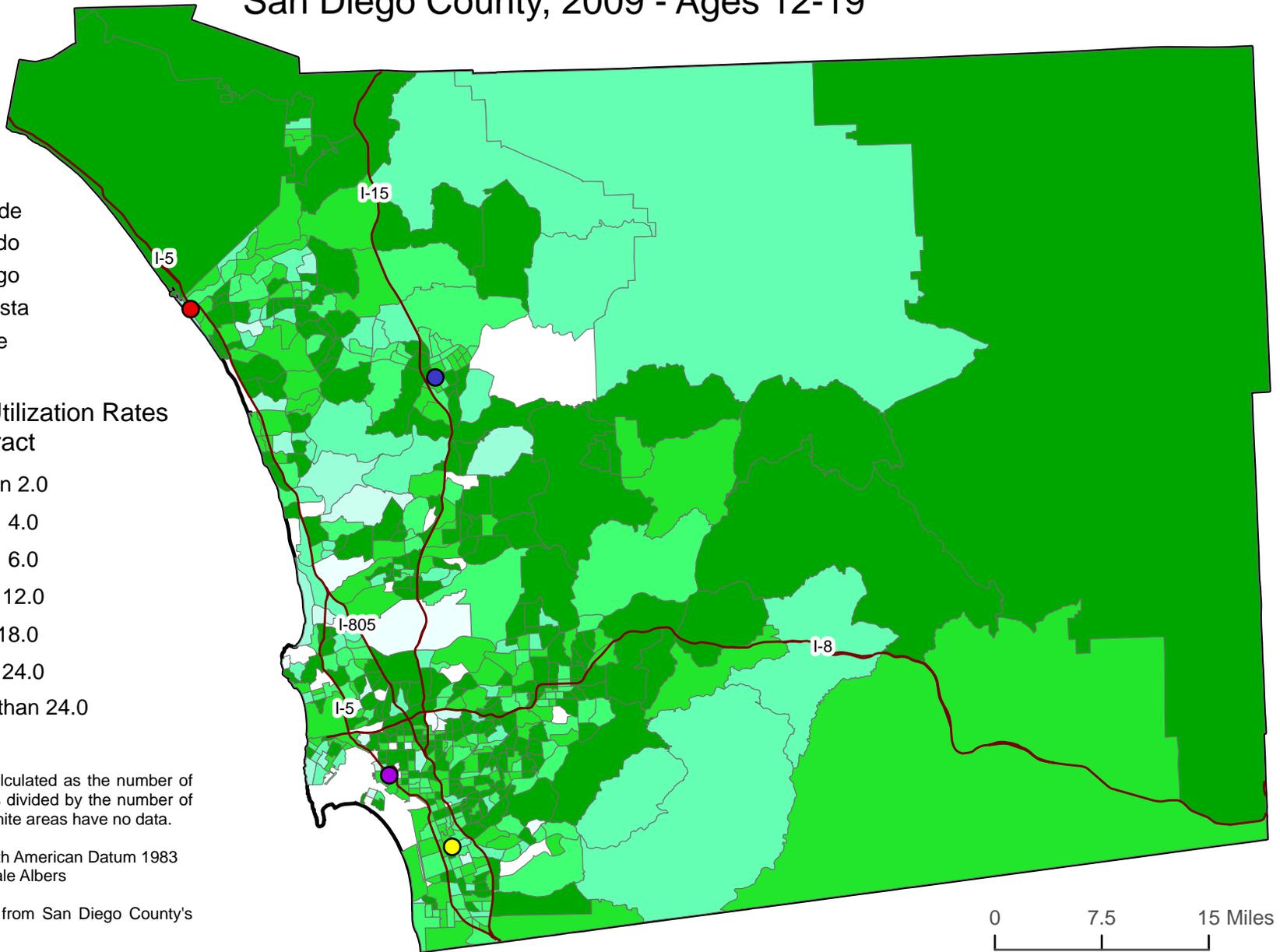
Annualized Utilization Rates by Census Tract



*Notes:
The utilization rate is calculated as the number of mental health care visits divided by the number of mental health clients. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

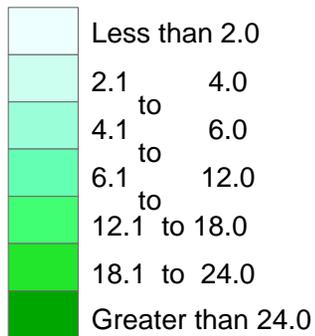
Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization Rate* of Mental Health Care Services San Diego County, 2009 - Ages 20-24

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

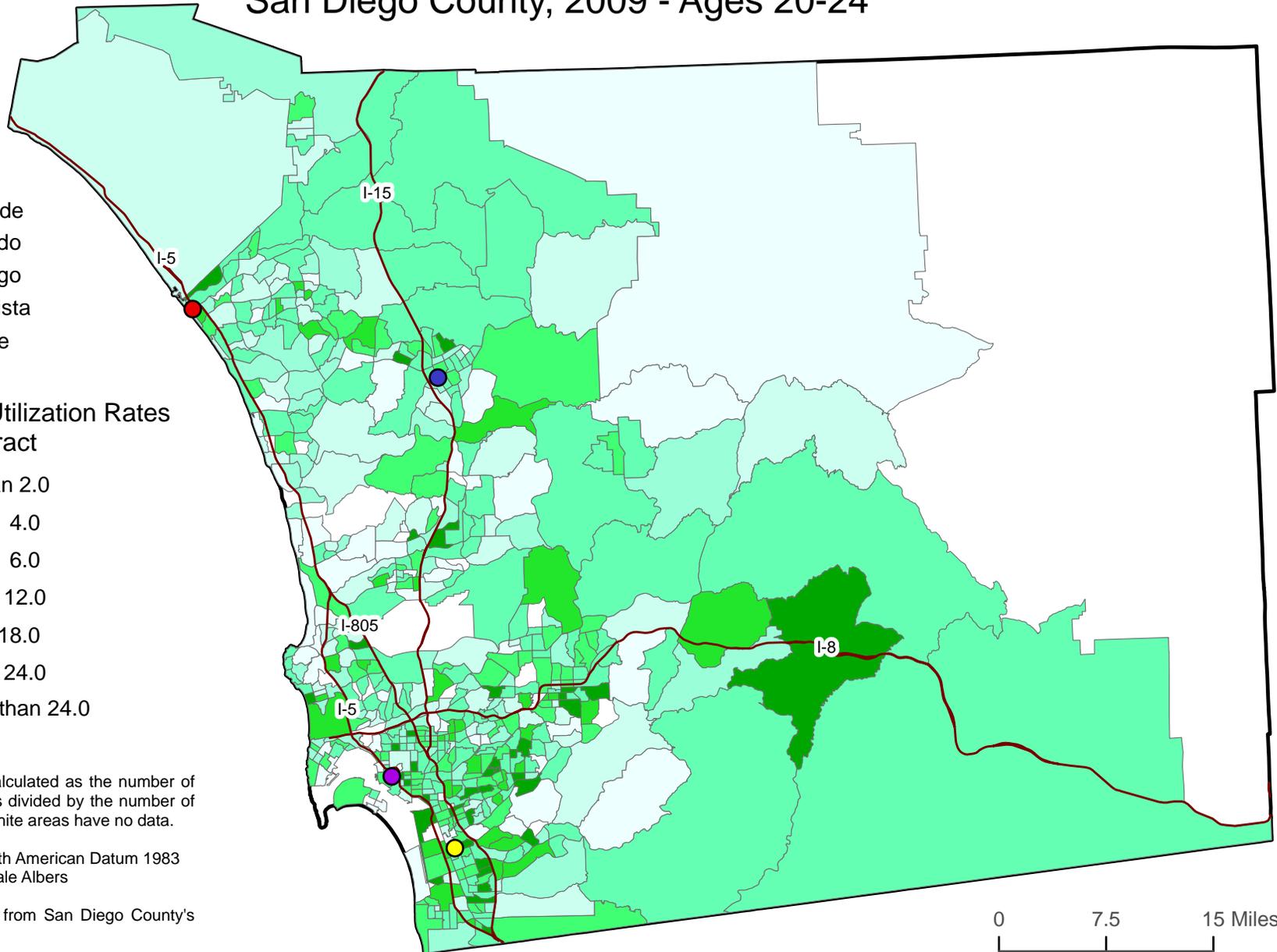
Annualized Utilization Rates by Census Tract



*Notes:
The utilization rate is calculated as the number of mental health care visits divided by the number of mental health clients. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database.

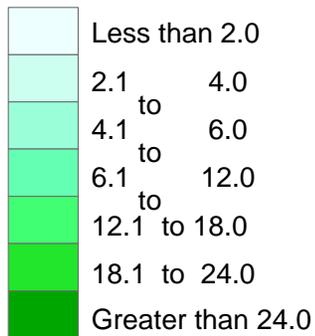


Utilization Rate* of Mental Health Care Services

San Diego County, 2009 - Ages 25-44

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

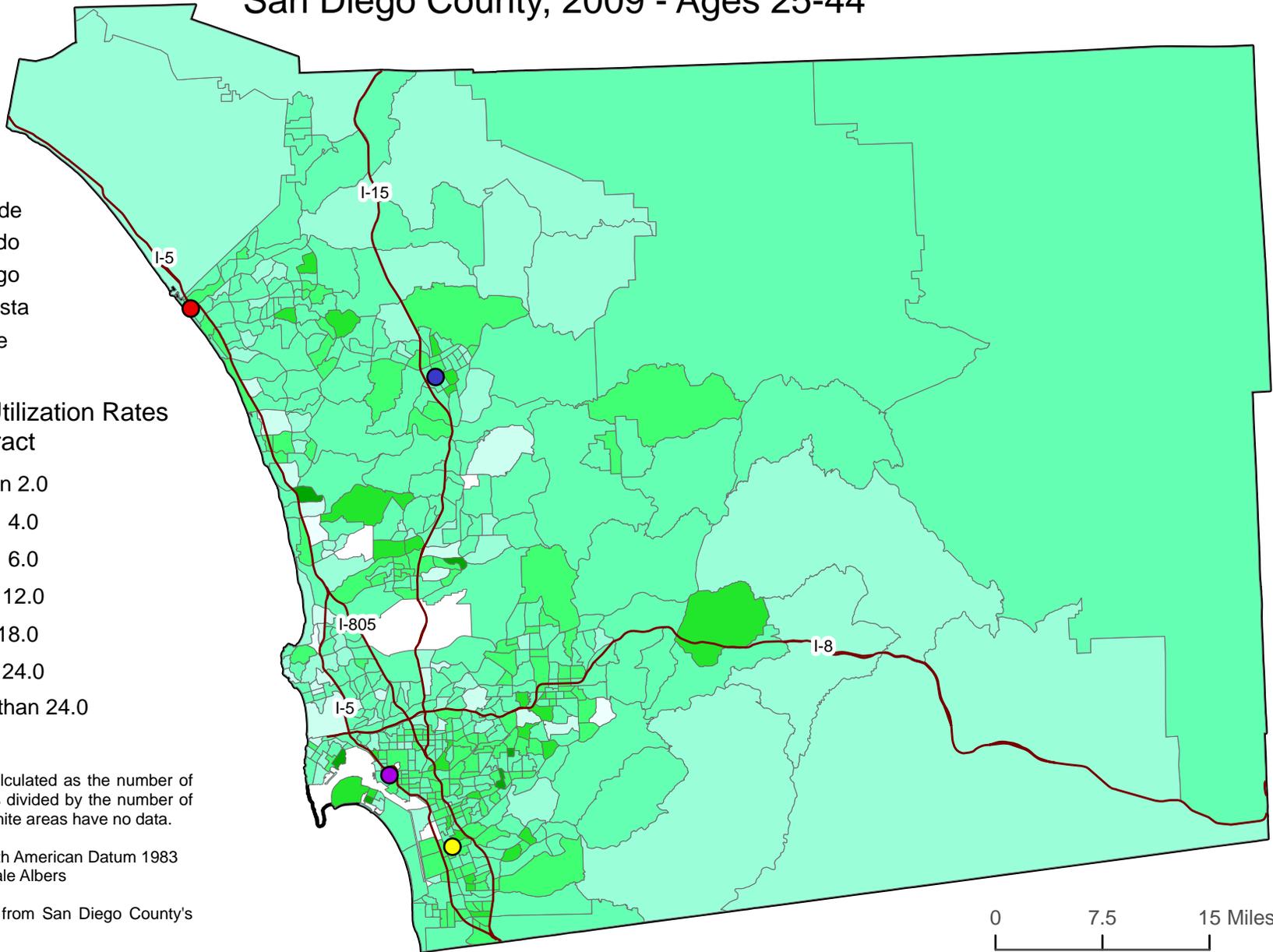
Annualized Utilization Rates by Census Tract



*Notes:
 The utilization rate is calculated as the number of mental health care visits divided by the number of mental health clients. White areas have no data.

Coordinate System: North American Datum 1983
 Projection: California Teale Albers

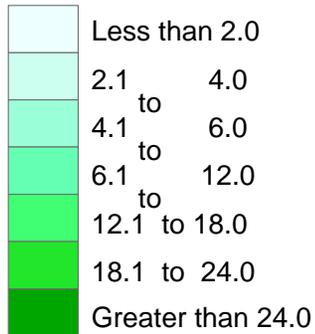
Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization Rate* of Mental Health Care Services San Diego County, 2009 - Ages 45-54

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

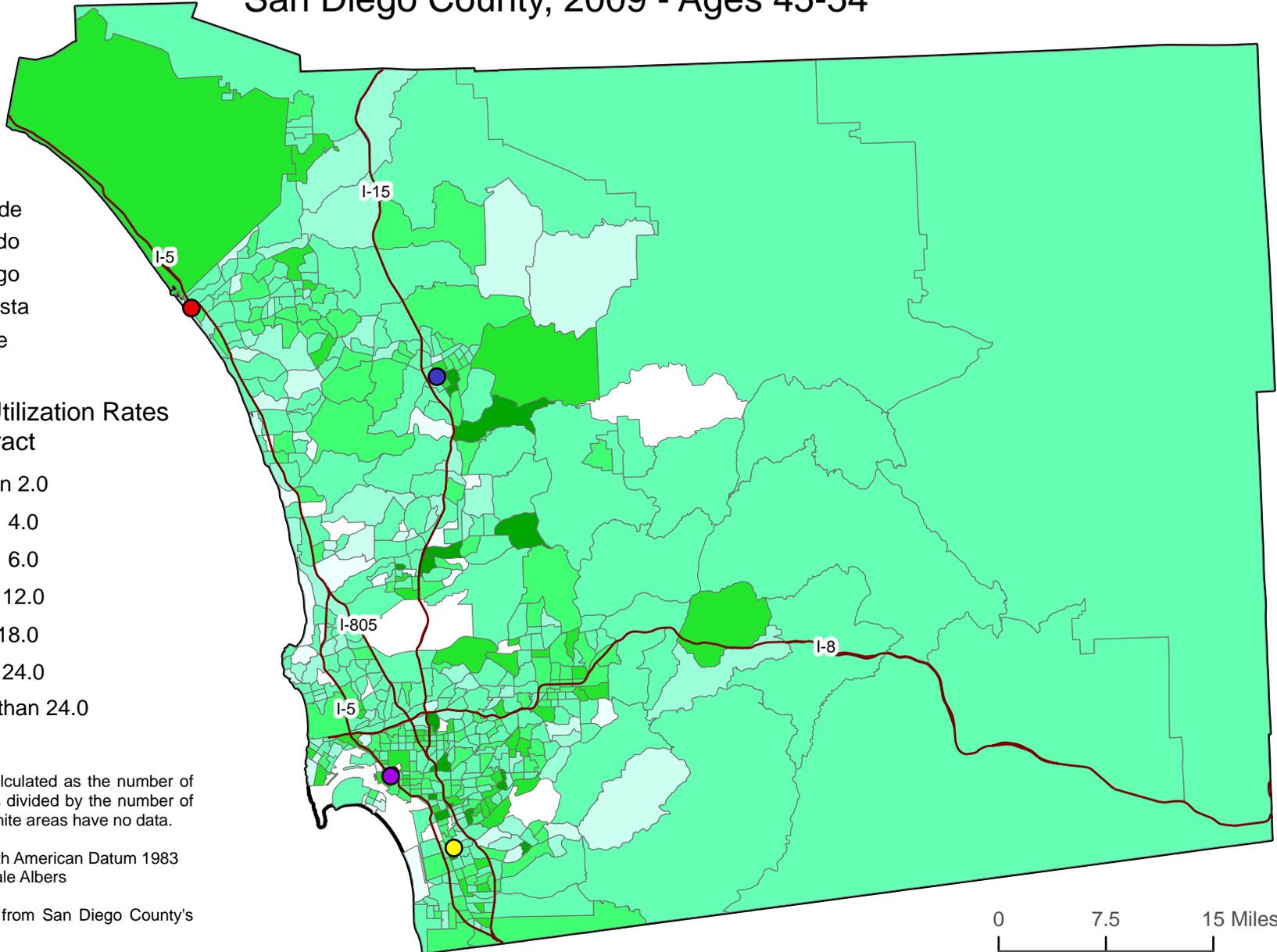
Annualized Utilization Rates by Census Tract



*Notes:
The utilization rate is calculated as the number of mental health care visits divided by the number of mental health clients. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

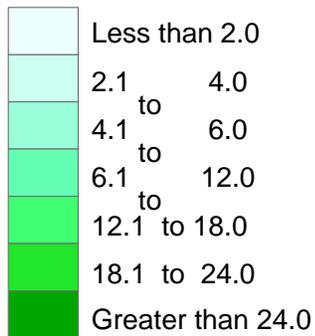
Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization Rate* of Mental Health Care Services San Diego County, 2009 - Ages 55-64

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

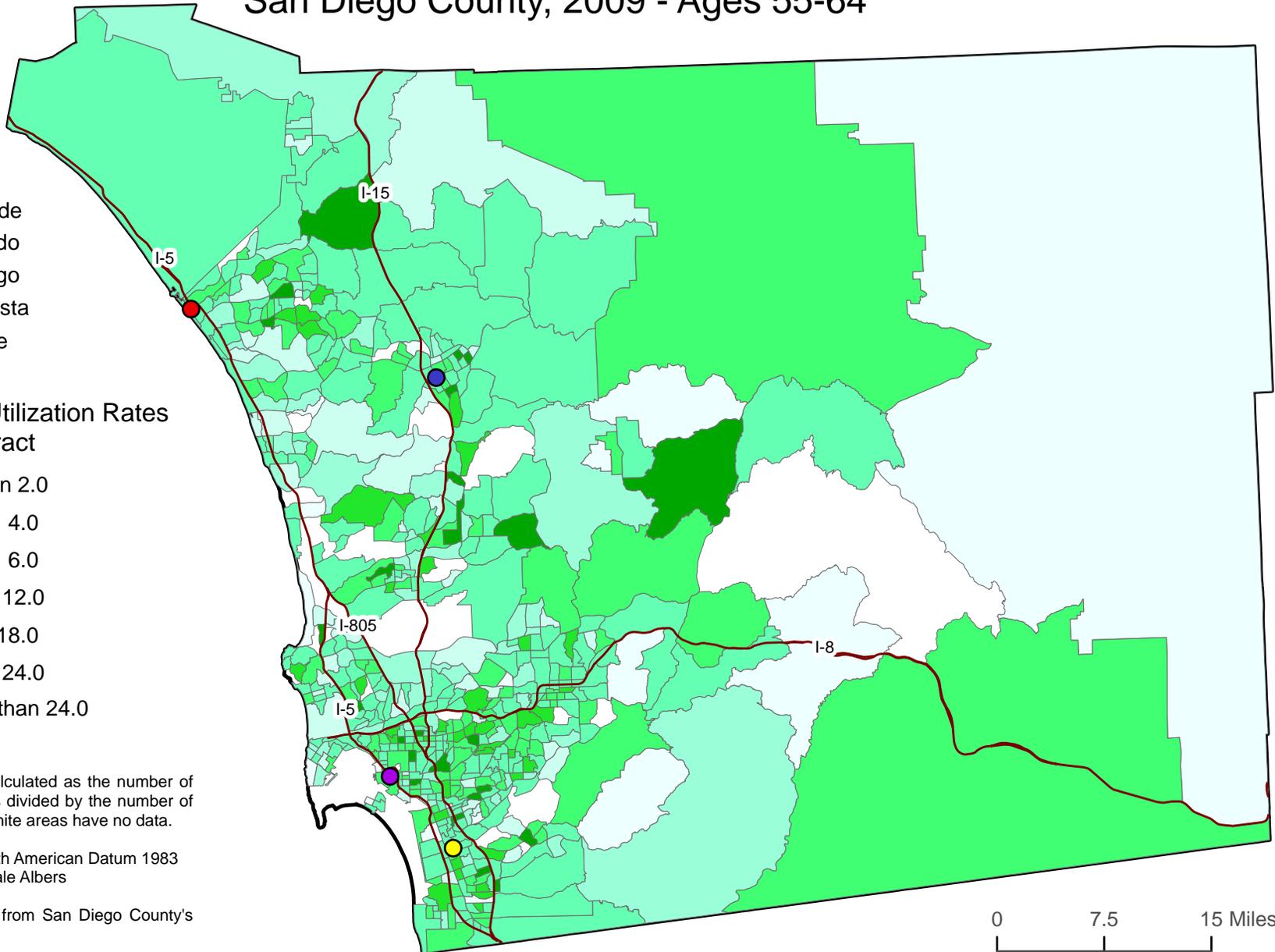
Annualized Utilization Rates by Census Tract



*Notes:
The utilization rate is calculated as the number of mental health care visits divided by the number of mental health clients. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

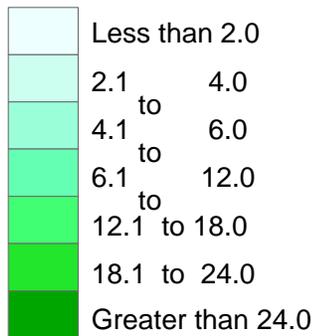
Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization Rate* of Mental Health Care Services San Diego County, 2009 - Men

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

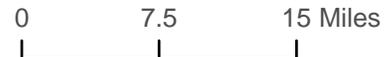
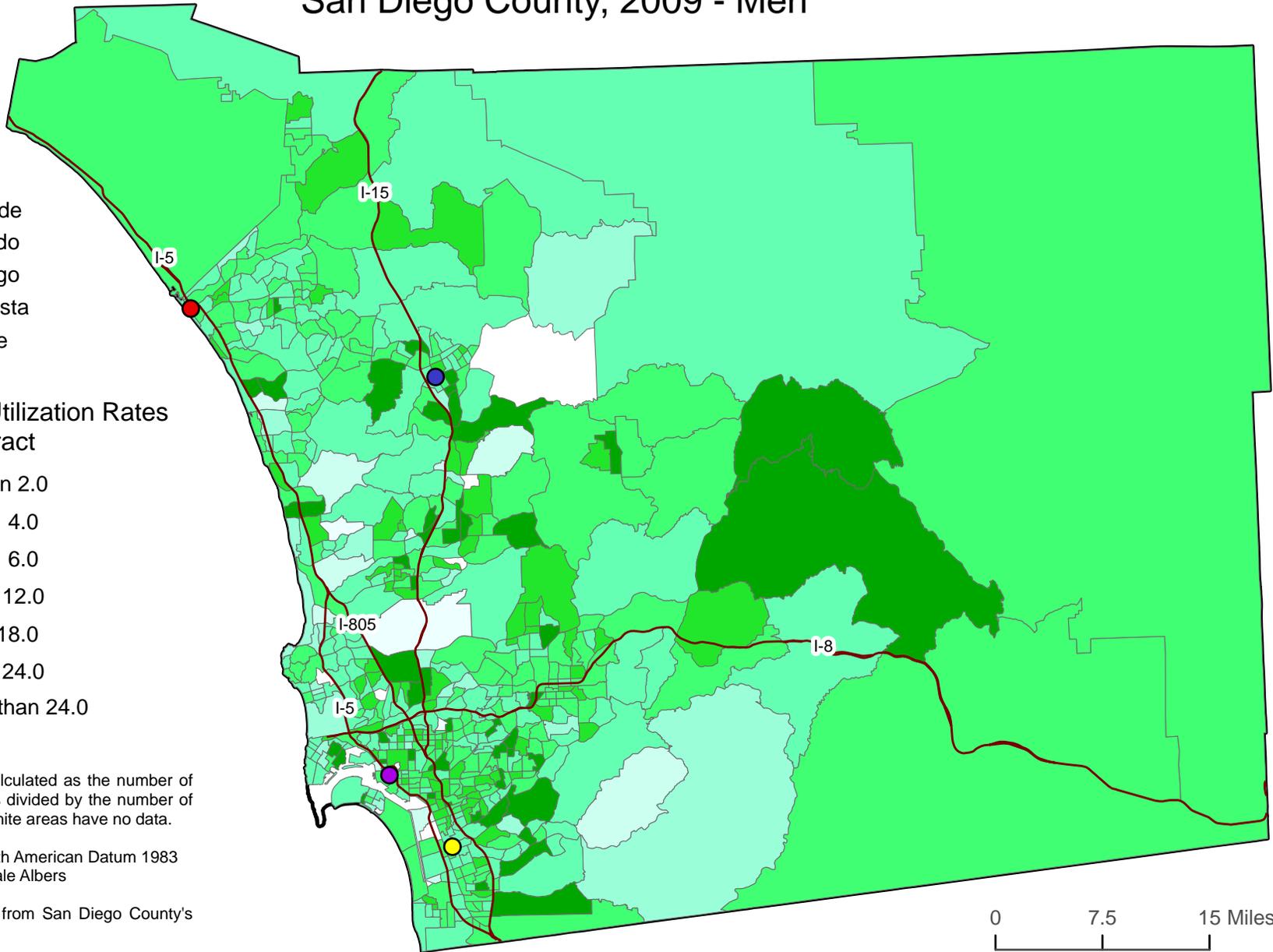
Annualized Utilization Rates by Census Tract



*Notes:
The utilization rate is calculated as the number of mental health care visits divided by the number of mental health clients. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

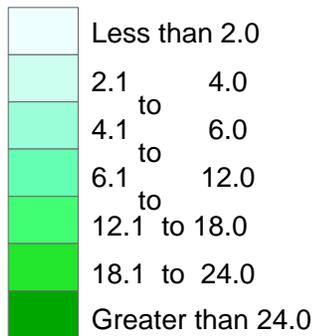
Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization Rate* of Mental Health Care Services San Diego County, 2009 - Women

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

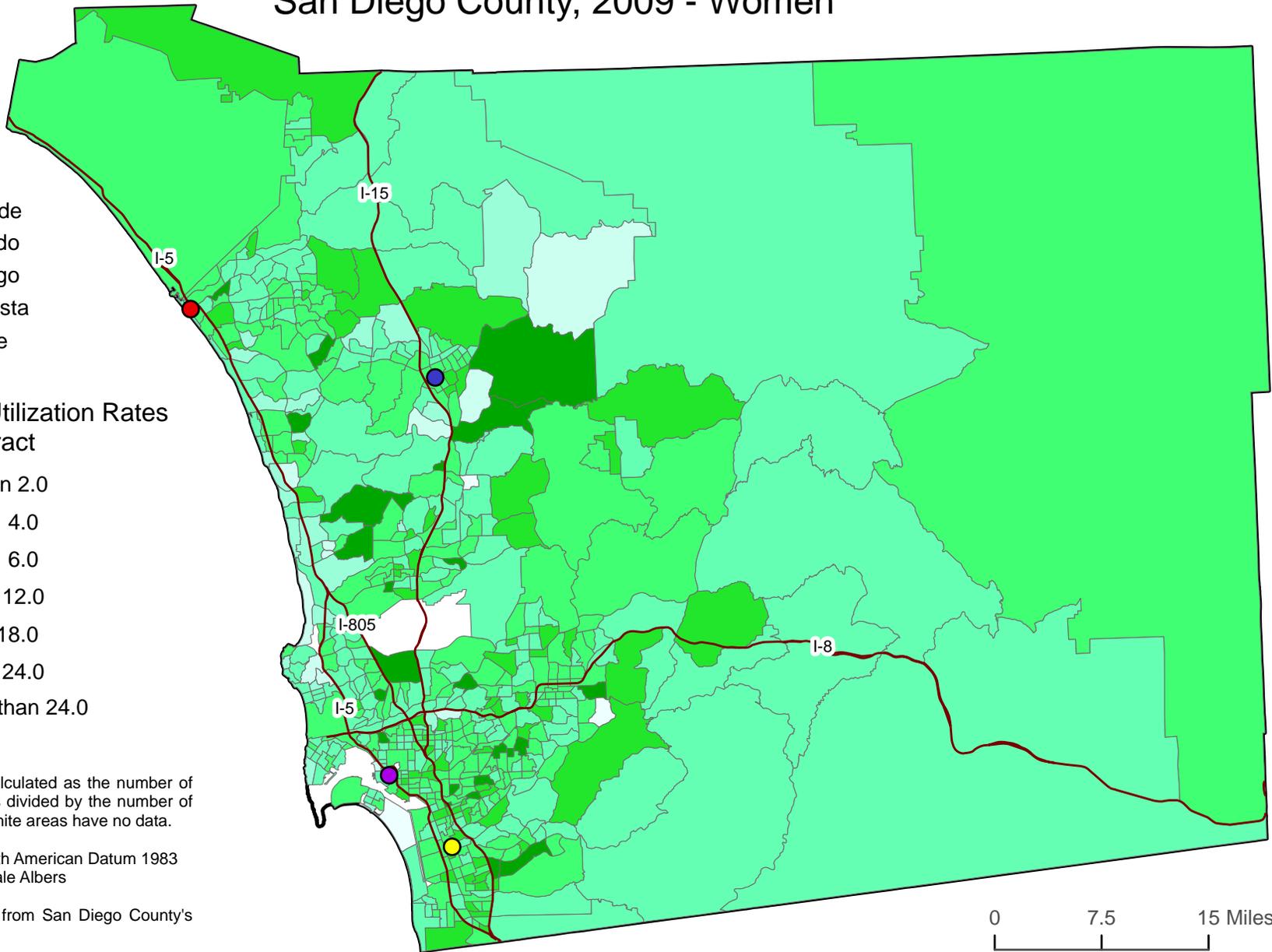
Annualized Utilization Rates by Census Tract



*Notes:
The utilization rate is calculated as the number of mental health care visits divided by the number of mental health clients. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

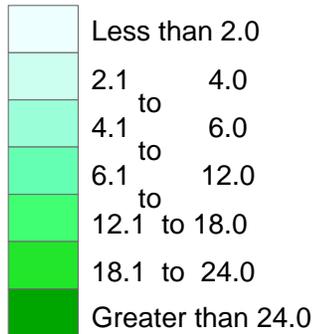
Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization Rate* of Mental Health Care Services San Diego County, 2009 - White

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

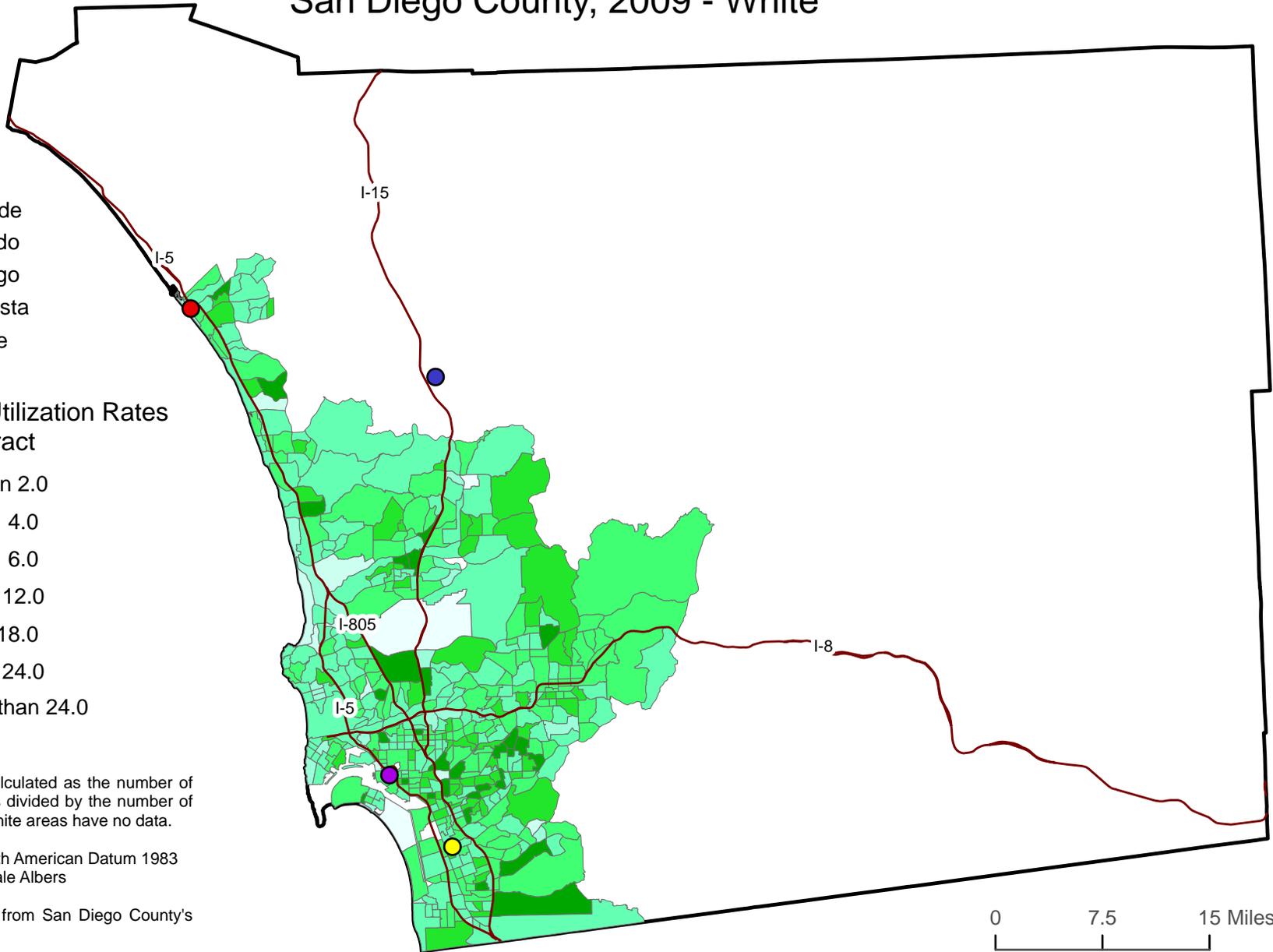
Annualized Utilization Rates by Census Tract



*Notes:
The utilization rate is calculated as the number of mental health care visits divided by the number of mental health clients. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

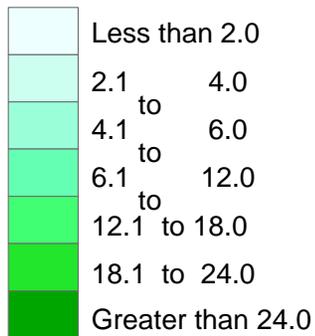
Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization Rate* of Mental Health Care Services San Diego County, 2009 - Black

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

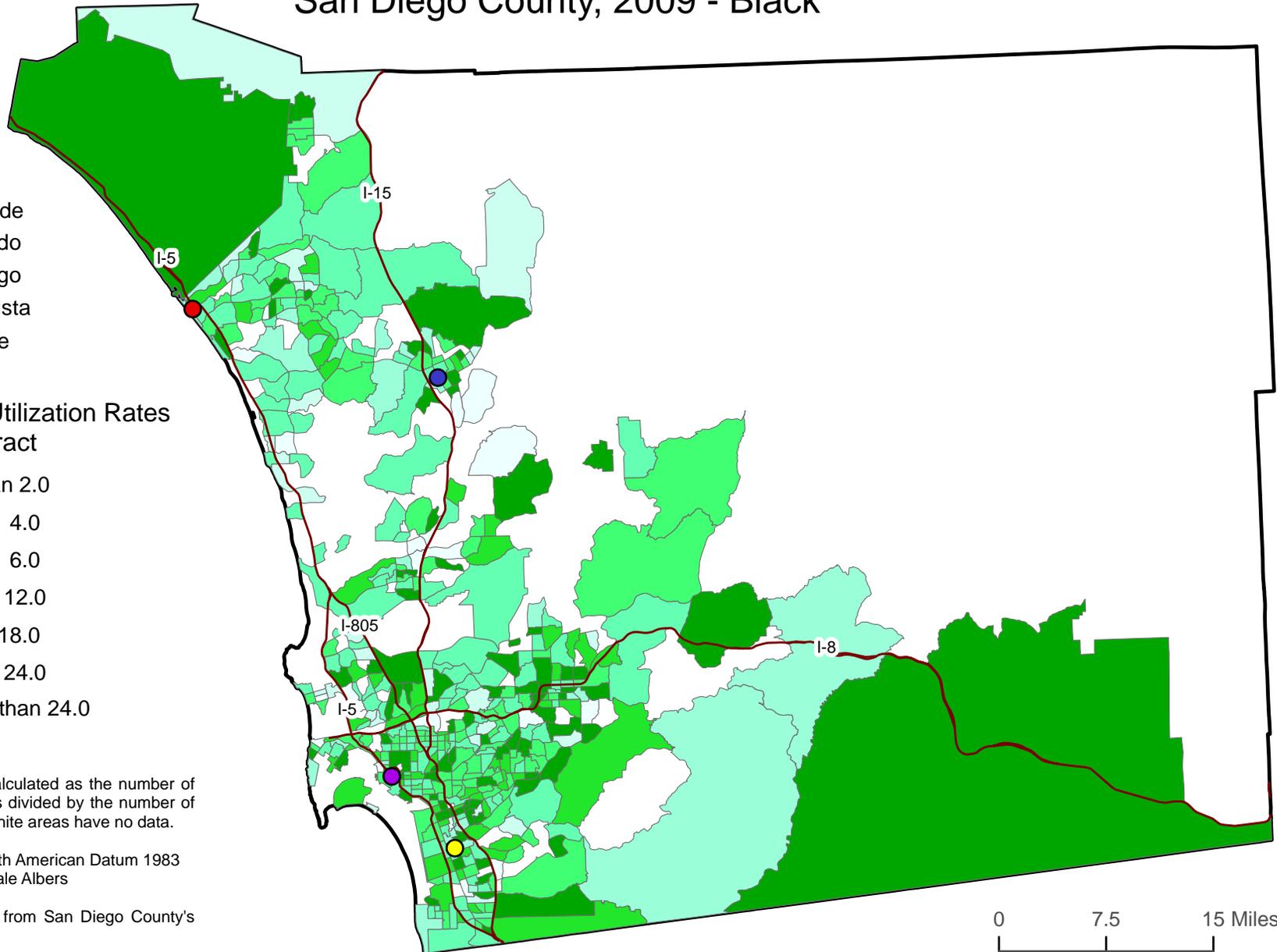
Annualized Utilization Rates by Census Tract



*Notes:
The utilization rate is calculated as the number of mental health care visits divided by the number of mental health clients. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

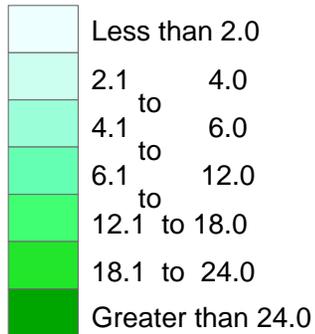
Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization Rate* of Mental Health Care Services San Diego County, 2009 - Asian Pacific Islander

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

Annualized Utilization Rates by Census Tract

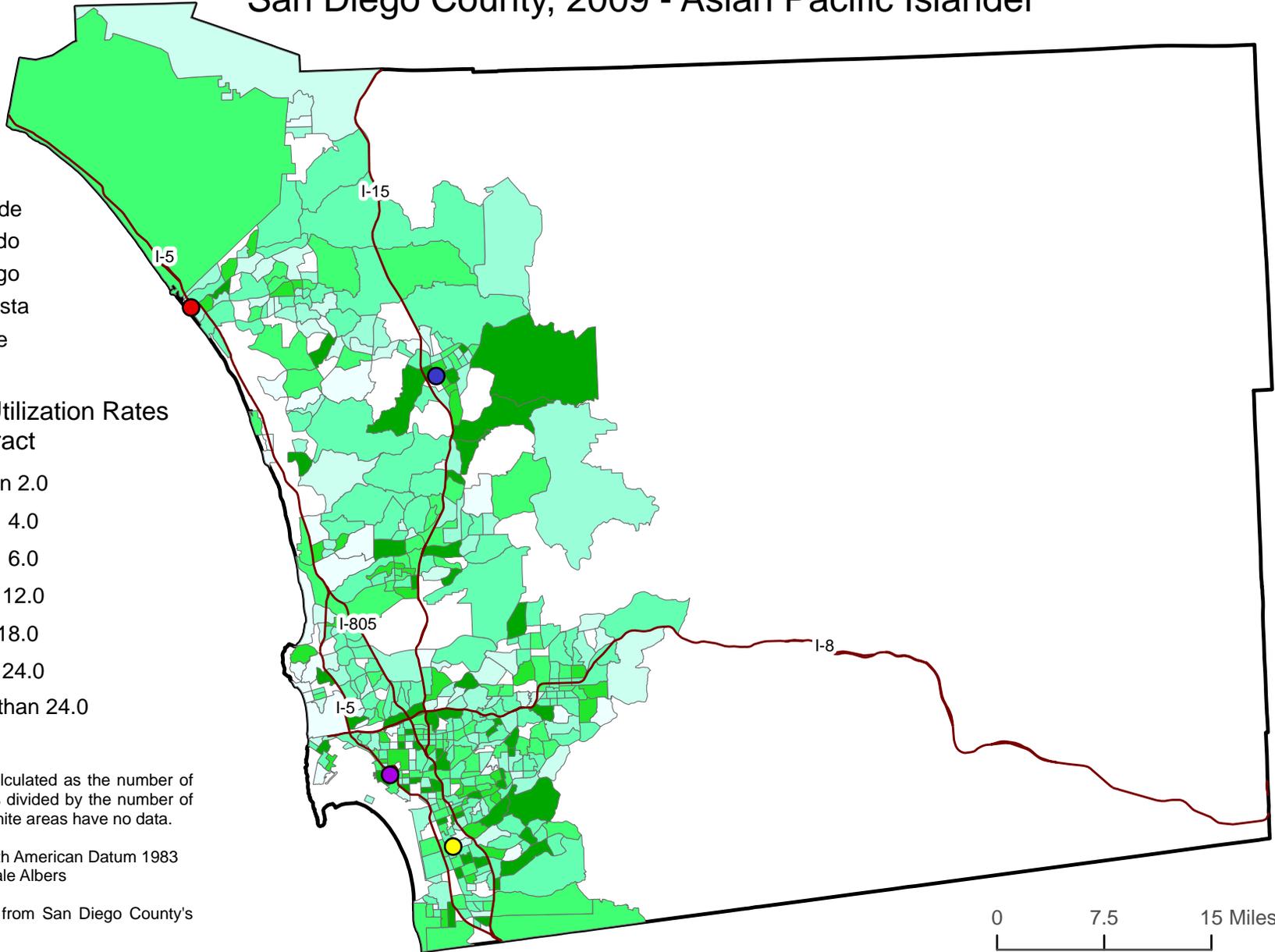


***Notes:**

The utilization rate is calculated as the number of mental health care visits divided by the number of mental health clients. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database.

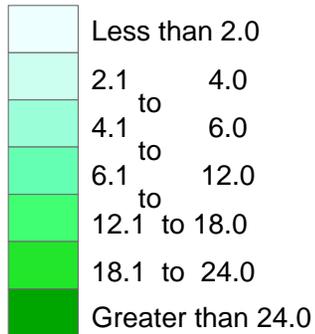


0 7.5 15 Miles

Utilization Rate* of Mental Health Care Services San Diego County, 2009 - Native American

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

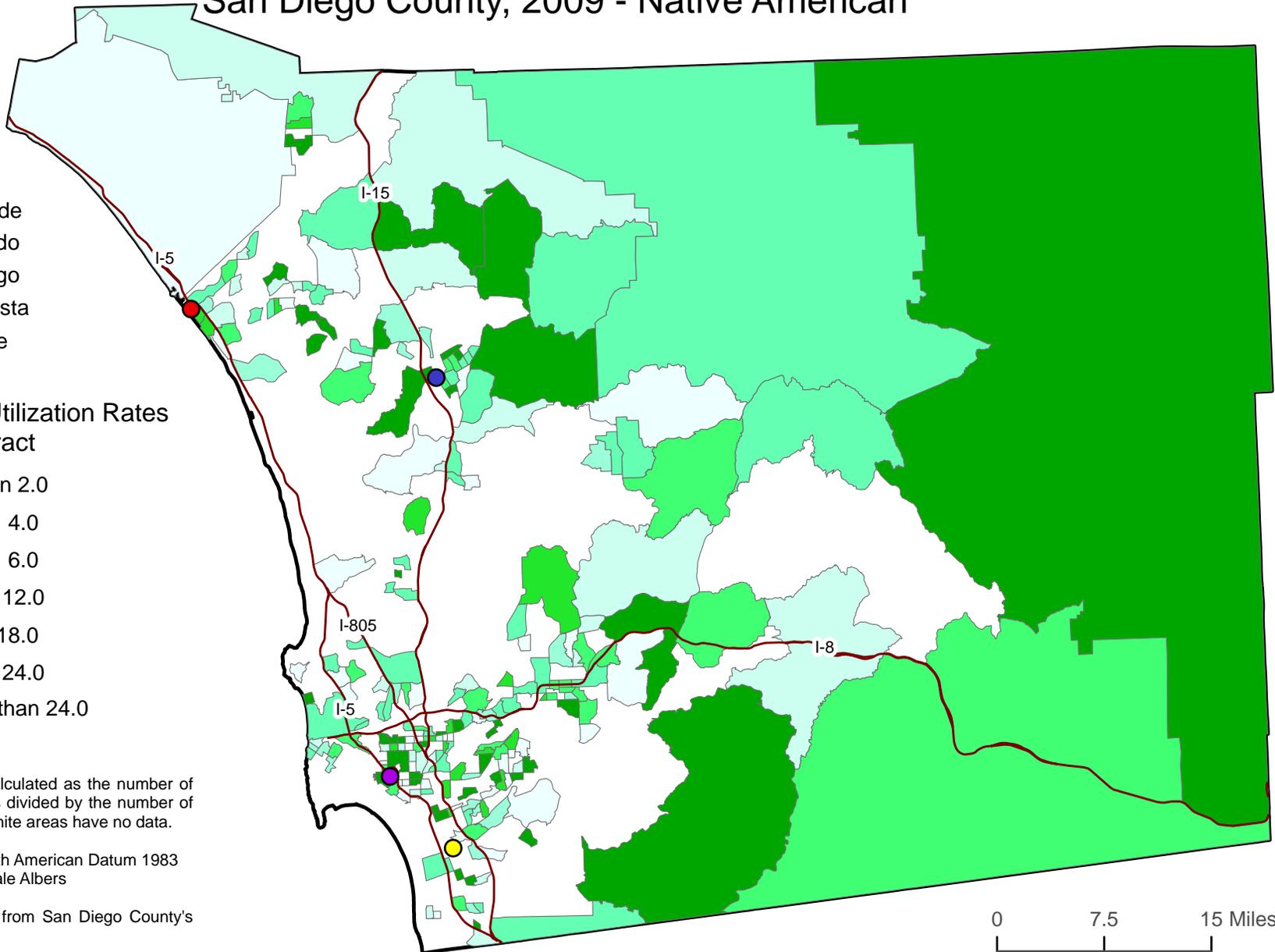
Annualized Utilization Rates by Census Tract



*Notes:
The utilization rate is calculated as the number of mental health care visits divided by the number of mental health clients. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

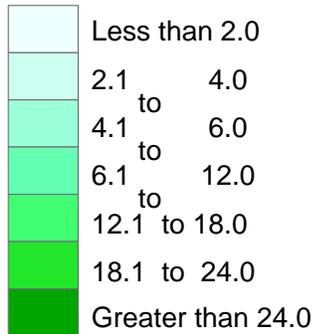
Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization Rate* of Mental Health Care Services San Diego County, 2009 - Other

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

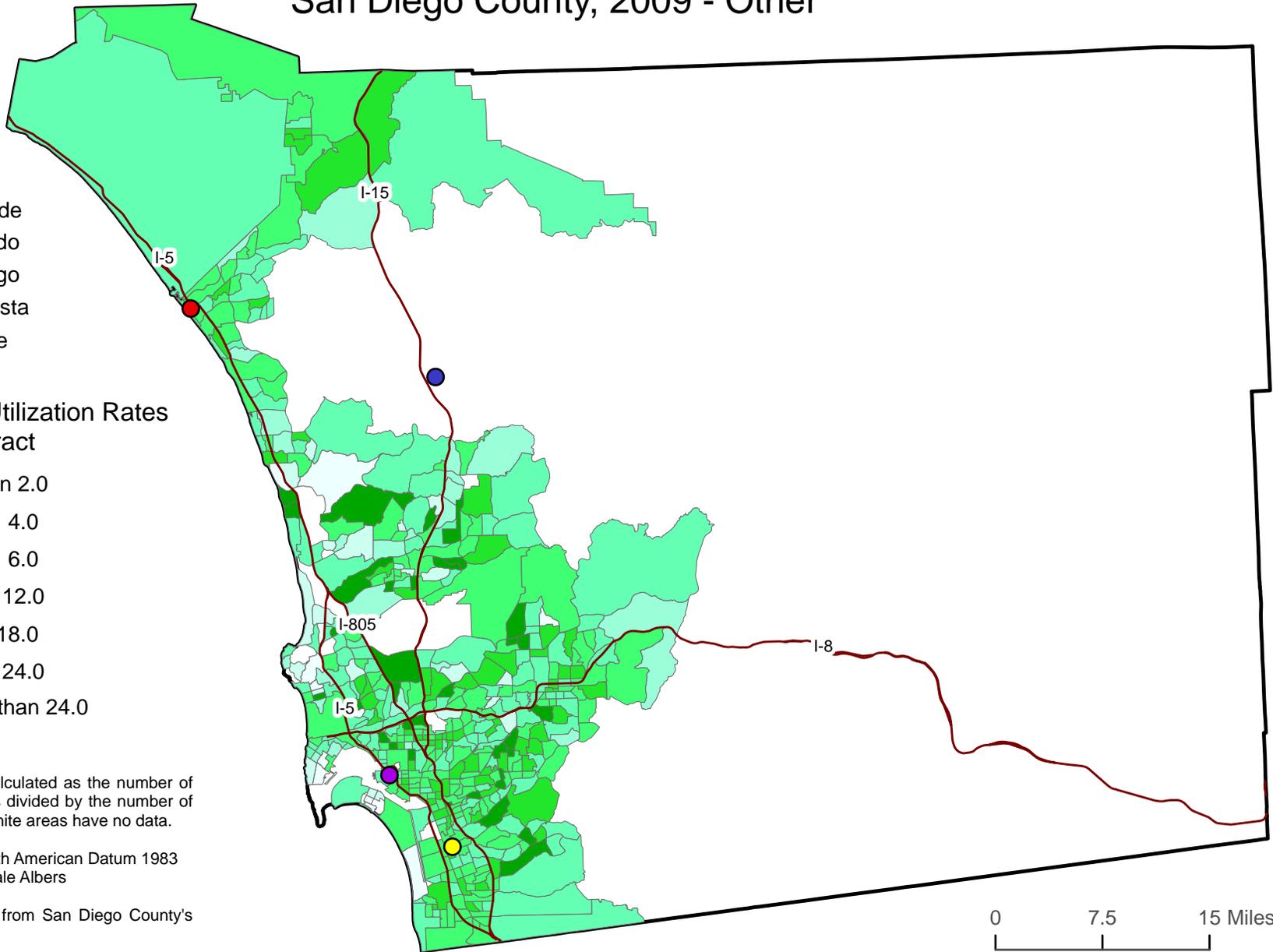
Annualized Utilization Rates by Census Tract



*Notes:
The utilization rate is calculated as the number of mental health care visits divided by the number of mental health clients. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

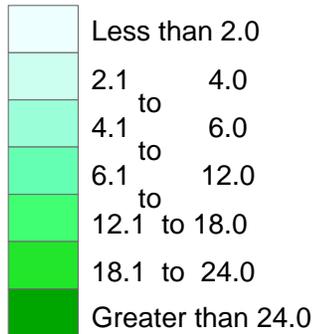
Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization Rate* of Mental Health Care Services San Diego County, 2009 - Hispanic

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

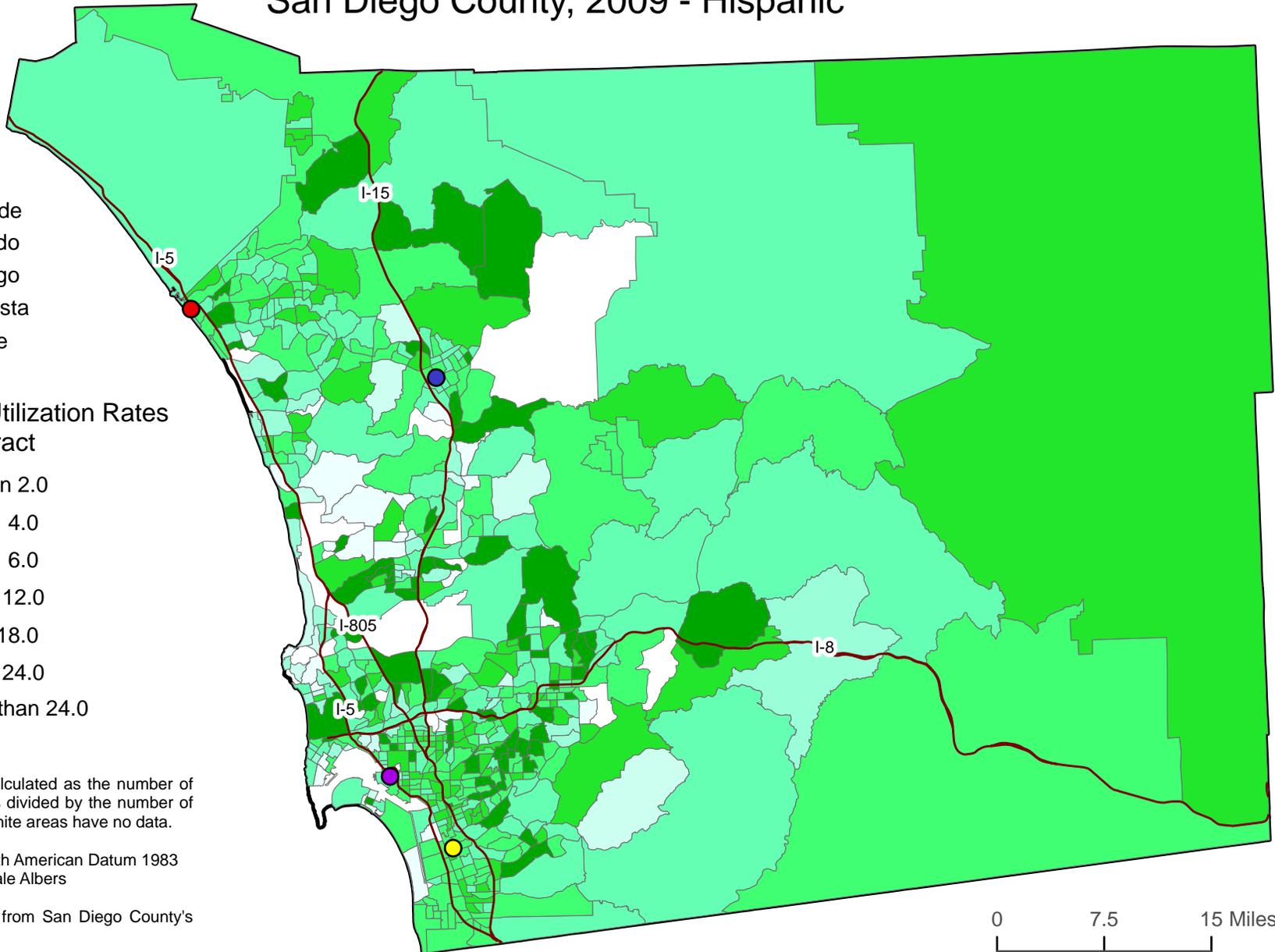
Annualized Utilization Rates by Census Tract



*Notes:
The utilization rate is calculated as the number of mental health care visits divided by the number of mental health clients. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

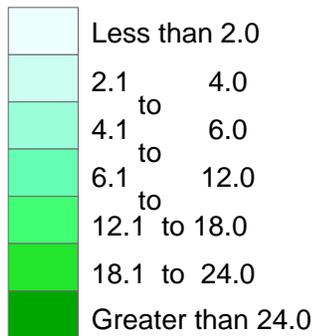
Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization Rate* of Mental Health Care Services San Diego County, 2009 - Not Hispanic

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

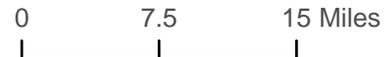
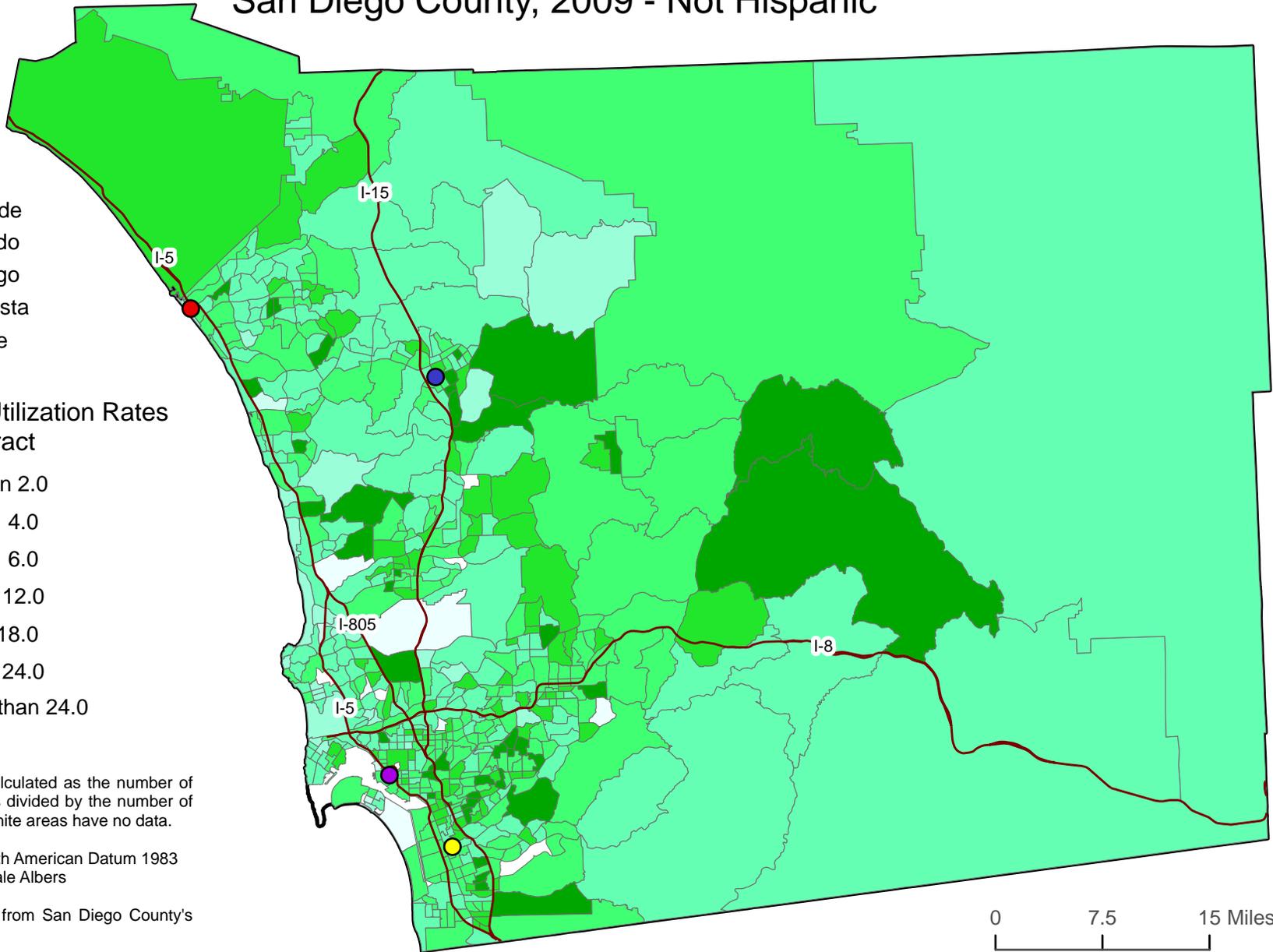
Annualized Utilization Rates by Census Tract



*Notes:
The utilization rate is calculated as the number of mental health care visits divided by the number of mental health clients. White areas have no data.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization* of Mental Health Care Services

San Diego County, 2009 - Ages 12-64

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Utilization of Mental Health Care Services

- Much less utilization ($p < 0.01$)
- Less utilization ($p < 0.05$)
- Equivalent to the county mean
- More utilization ($p < 0.05$)
- Much more utilization ($p < 0.01$)

Distance Band: 5.0 miles

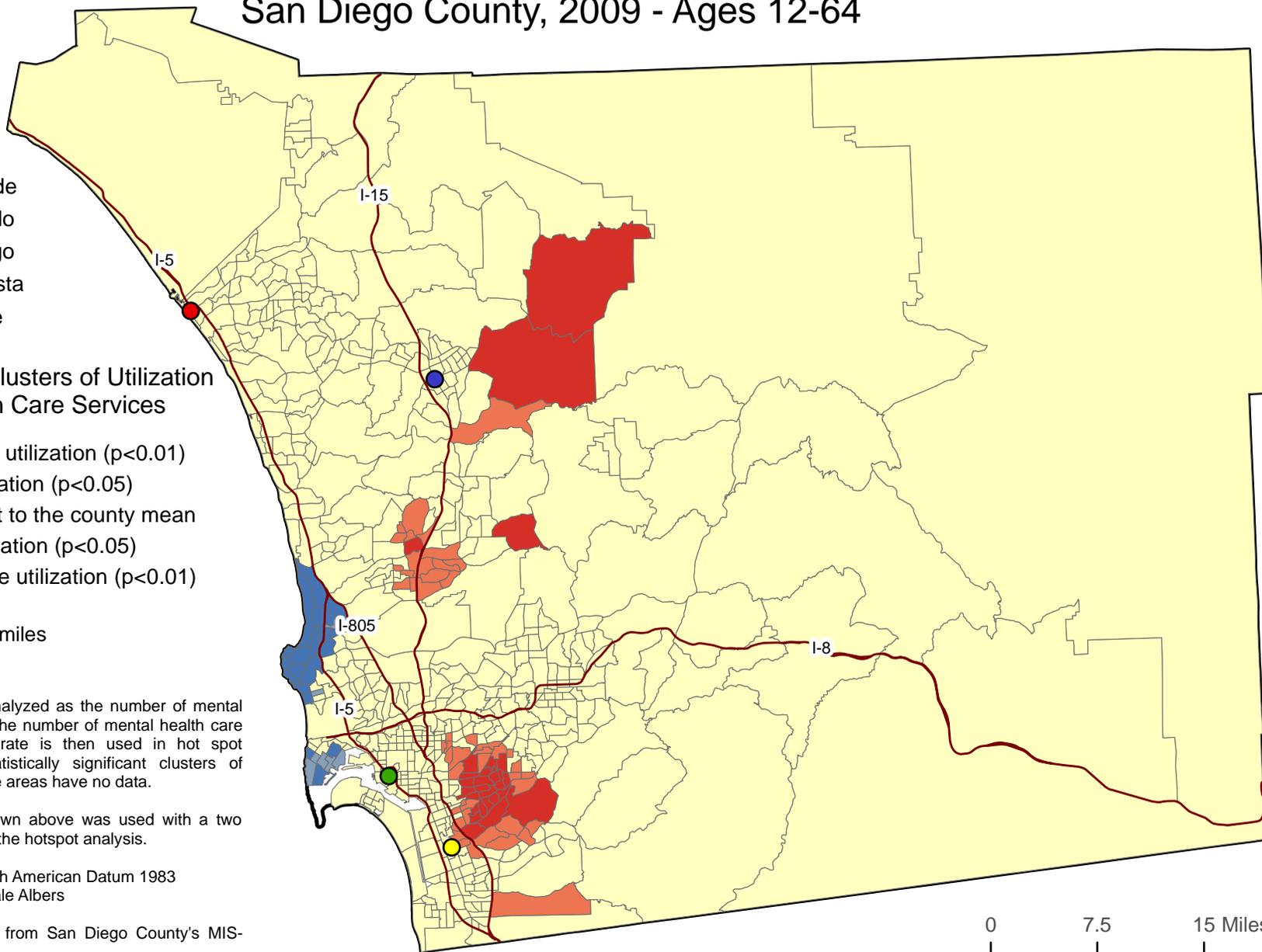
*Notes:

The utilization rate is analyzed as the number of mental health visits divided by the number of mental health care clients. The utilization rate is then used in hot spot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization* of Mental Health Care Services

San Diego County, 2009 - Ages 12-19

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Utilization of Mental Health Care Services

- Much less utilization ($p < 0.01$)
- Less utilization ($p < 0.05$)
- Equivalent to the county mean
- More utilization ($p < 0.05$)
- Much more utilization ($p < 0.01$)

Distance Band: 5.6 miles

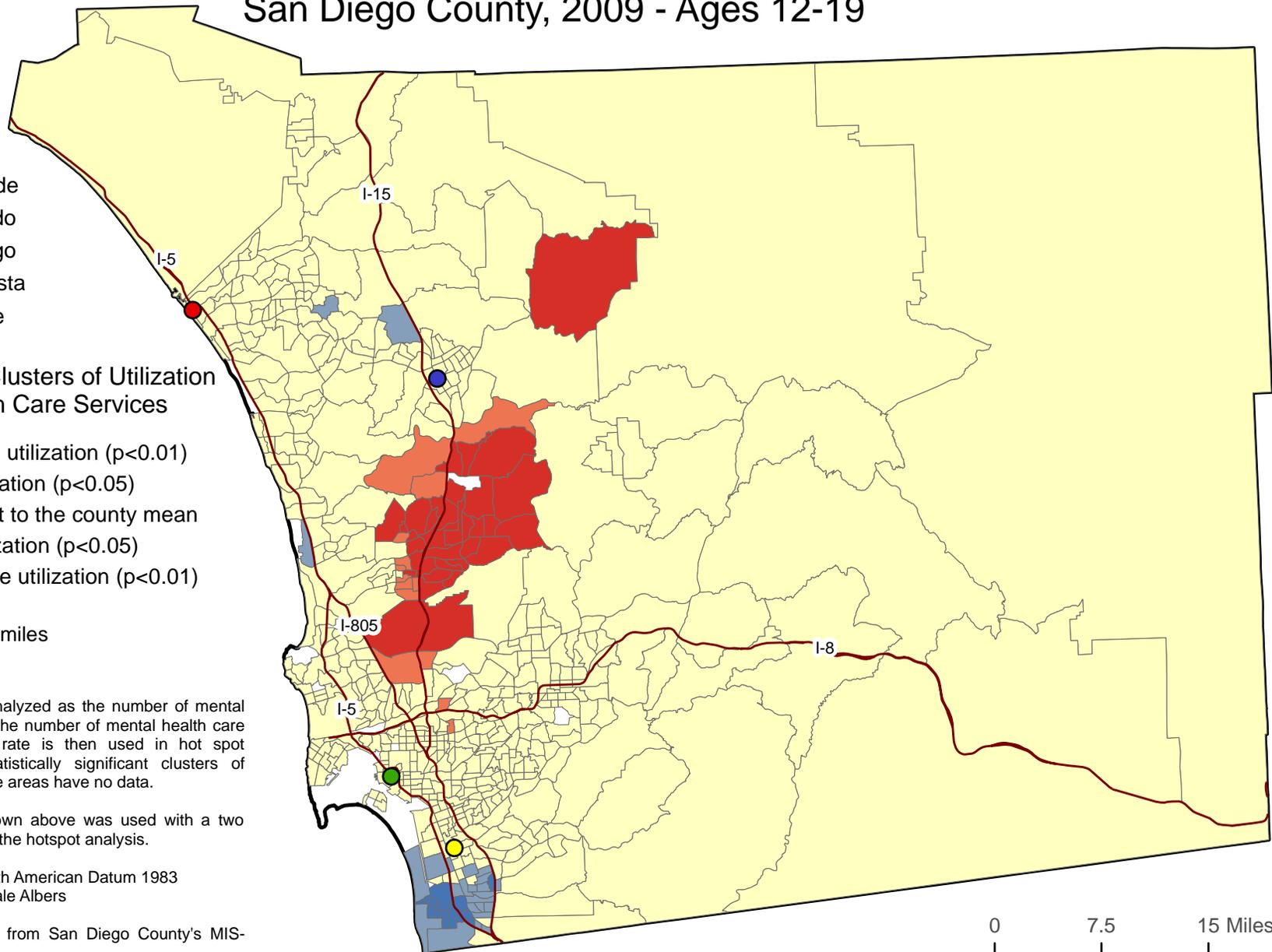
*Notes:

The utilization rate is analyzed as the number of mental health visits divided by the number of mental health care clients. The utilization rate is then used in hot spot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization* of Mental Health Care Services San Diego County, 2009 - Ages 20-24

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Utilization of Mental Health Care Services

- Much less utilization ($p < 0.01$)
- Less utilization ($p < 0.05$)
- Equivalent to the county mean
- More utilization ($p < 0.05$)
- Much more utilization ($p < 0.01$)

Distance Band: 5.0 miles

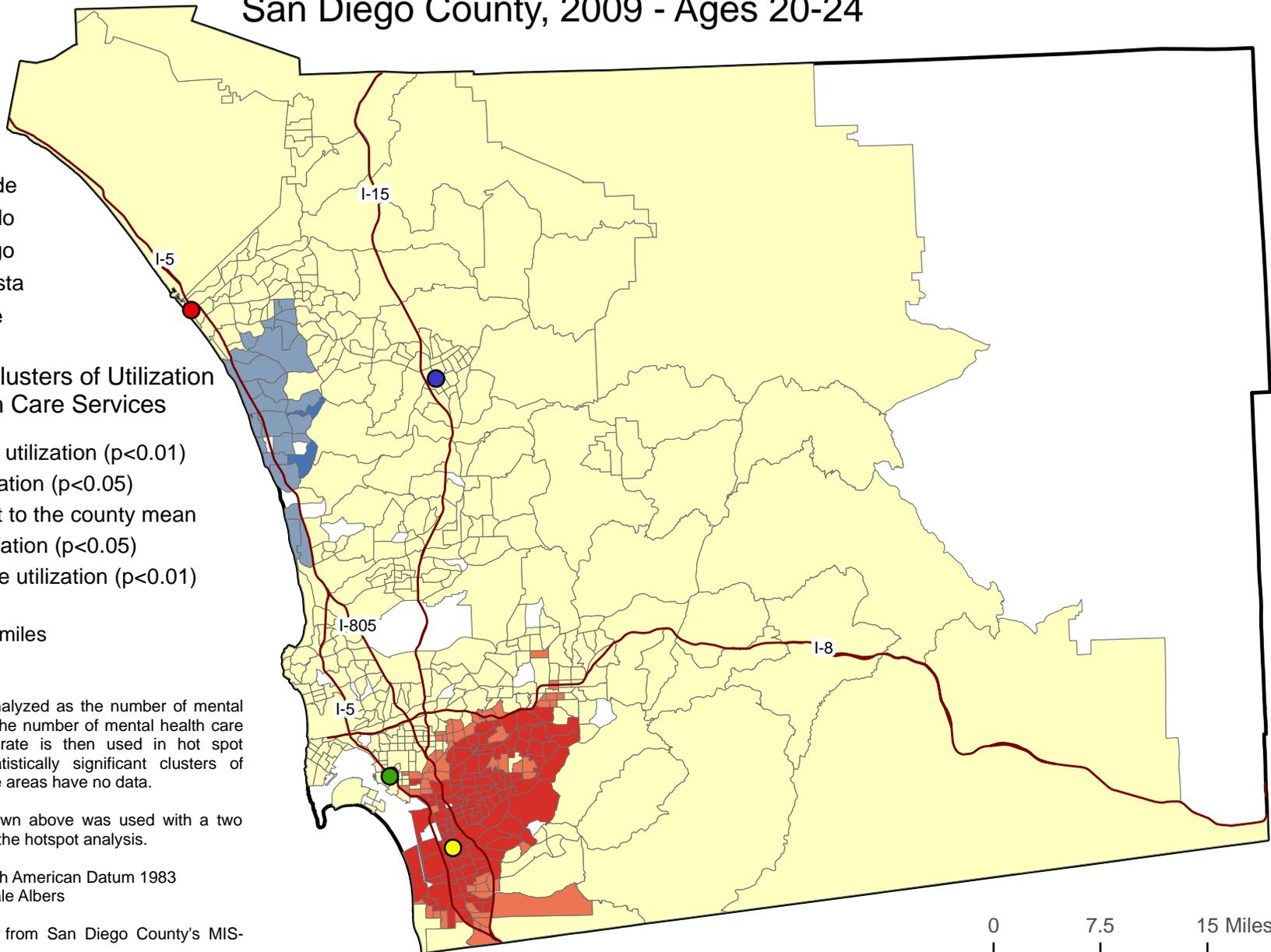
*Notes:

The utilization rate is analyzed as the number of mental health visits divided by the number of mental health care clients. The utilization rate is then used in hot spot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization* of Mental Health Care Services

San Diego County, 2009 - Ages 25-44

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Utilization of Mental Health Care Services

- Much less utilization ($p < 0.01$)
- Less utilization ($p < 0.05$)
- Equivalent to the county mean
- More utilization ($p < 0.05$)
- Much more utilization ($p < 0.01$)

Distance Band: 5.6 miles

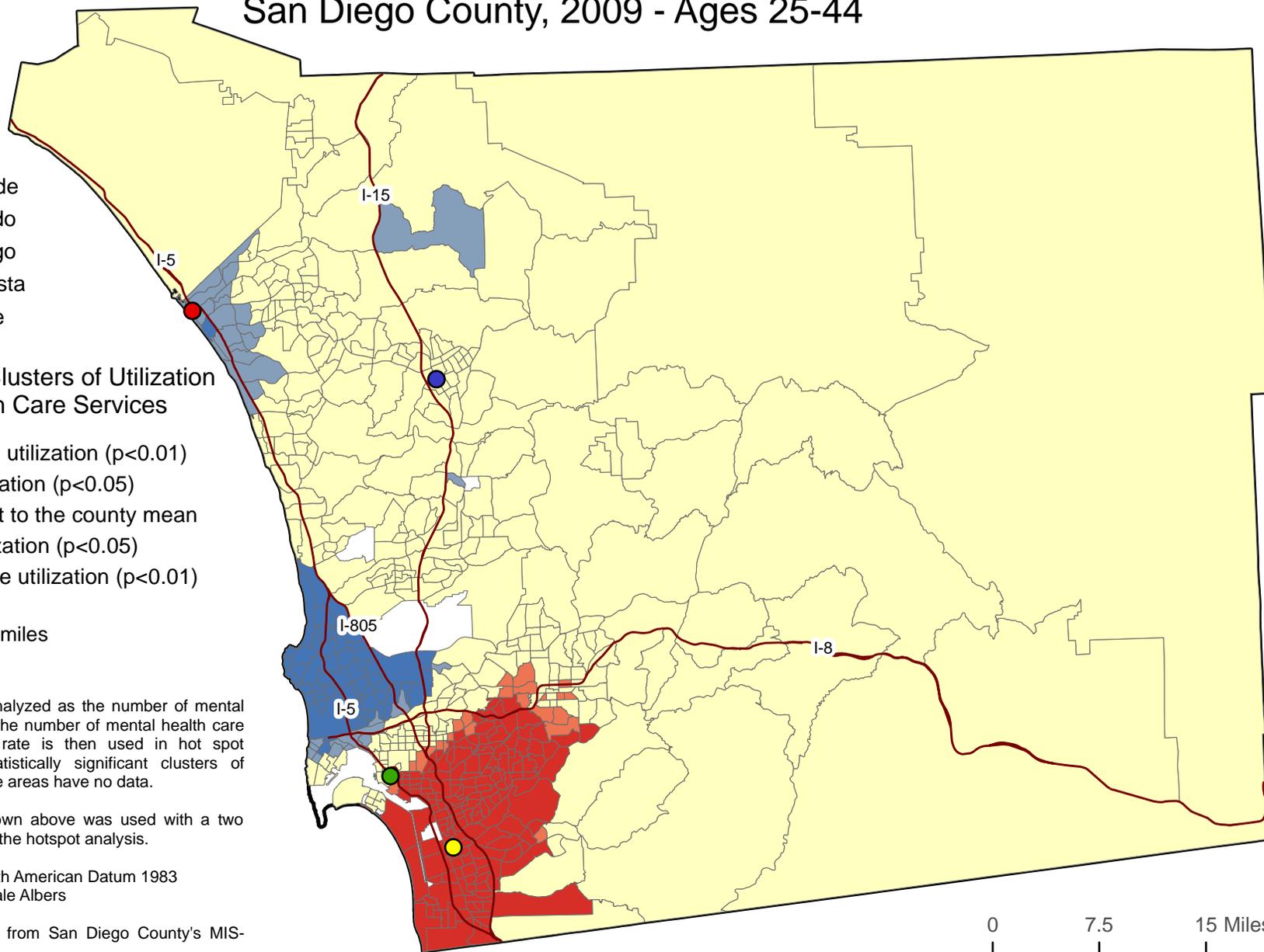
*Notes:

The utilization rate is analyzed as the number of mental health visits divided by the number of mental health care clients. The utilization rate is then used in hot spot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database.



0 7.5 15 Miles

Utilization* of Mental Health Care Services

San Diego County, 2009 - Ages 45-54

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Utilization of Mental Health Care Services

- Much less utilization ($p < 0.01$)
- Less utilization ($p < 0.05$)
- Equivalent to the county mean
- More utilization ($p < 0.05$)
- Much more utilization ($p < 0.01$)

Distance Band: 5.6 miles

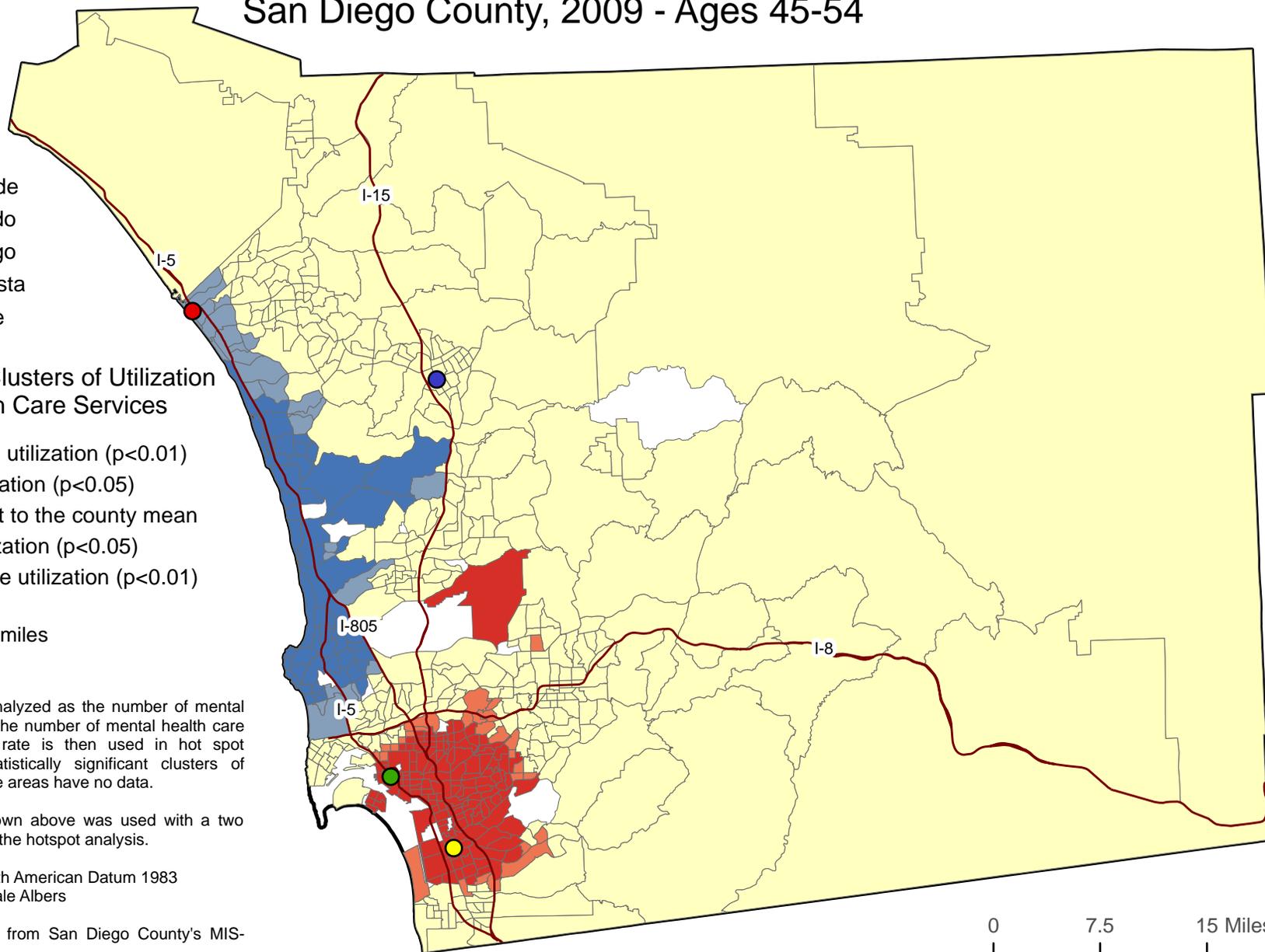
*Notes:

The utilization rate is analyzed as the number of mental health visits divided by the number of mental health care clients. The utilization rate is then used in hot spot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

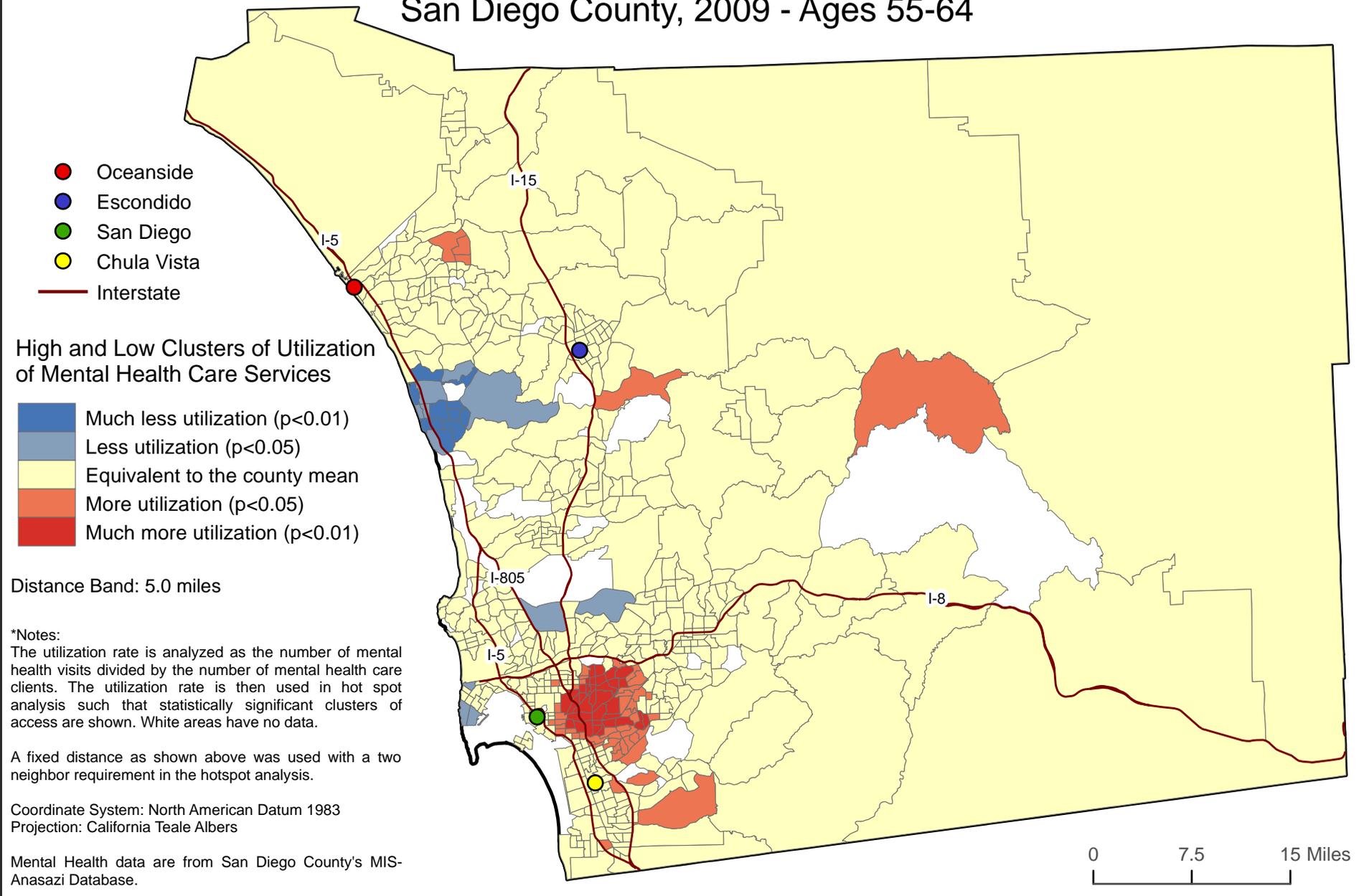
Mental Health data are from San Diego County's MIS-Anasazi Database.



0 7.5 15 Miles

Utilization* of Mental Health Care Services

San Diego County, 2009 - Ages 55-64



Utilization* of Mental Health Care Services San Diego County, 2009 - Men

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Utilization of Mental Health Care Services

- Much less utilization ($p < 0.01$)
- Less utilization ($p < 0.05$)
- Equivalent to the county mean
- More utilization ($p < 0.05$)
- Much more utilization ($p < 0.01$)

Distance Band: 4.3 miles

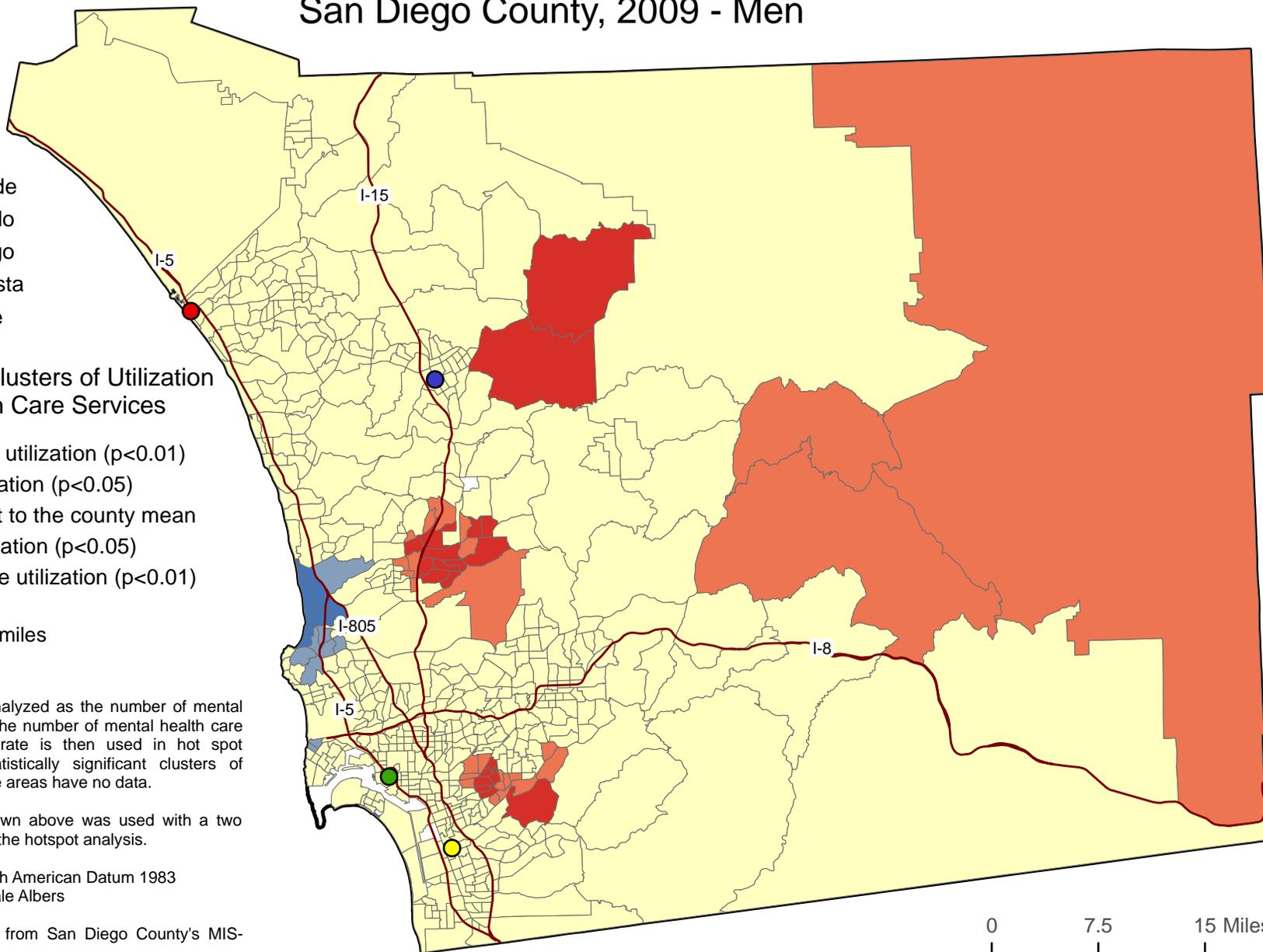
*Notes:

The utilization rate is analyzed as the number of mental health visits divided by the number of mental health care clients. The utilization rate is then used in hot spot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization* of Mental Health Care Services San Diego County, 2009 - Women

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Utilization of Mental Health Care Services

- Much less utilization ($p < 0.01$)
- Less utilization ($p < 0.05$)
- Equivalent to the county mean
- More utilization ($p < 0.05$)
- Much more utilization ($p < 0.01$)

Distance Band: 6.2 miles

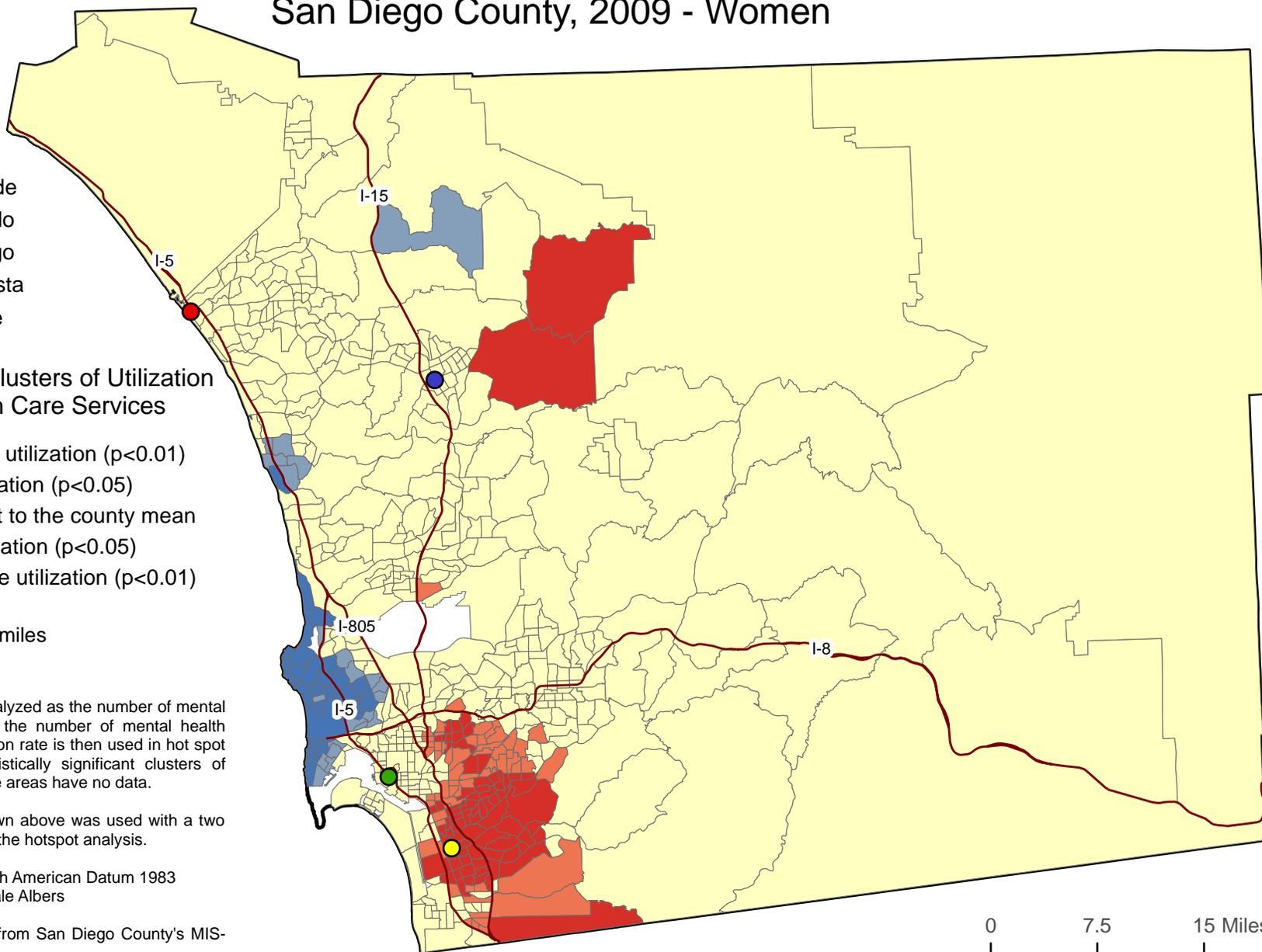
*Notes:

The utilization rate is analyzed as the number of mental health visits divided by the number of mental health care clients. The utilization rate is then used in hot spot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database.



0 7.5 15 Miles

Utilization* of Mental Health Care Services San Diego County, 2009 - White

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Utilization of Mental Health Care Services

- Much less utilization ($p < 0.01$)
- Less utilization ($p < 0.05$)
- Equivalent to the county mean
- More utilization ($p < 0.05$)
- Much more utilization ($p < 0.01$)

Distance Band: 5.6 miles

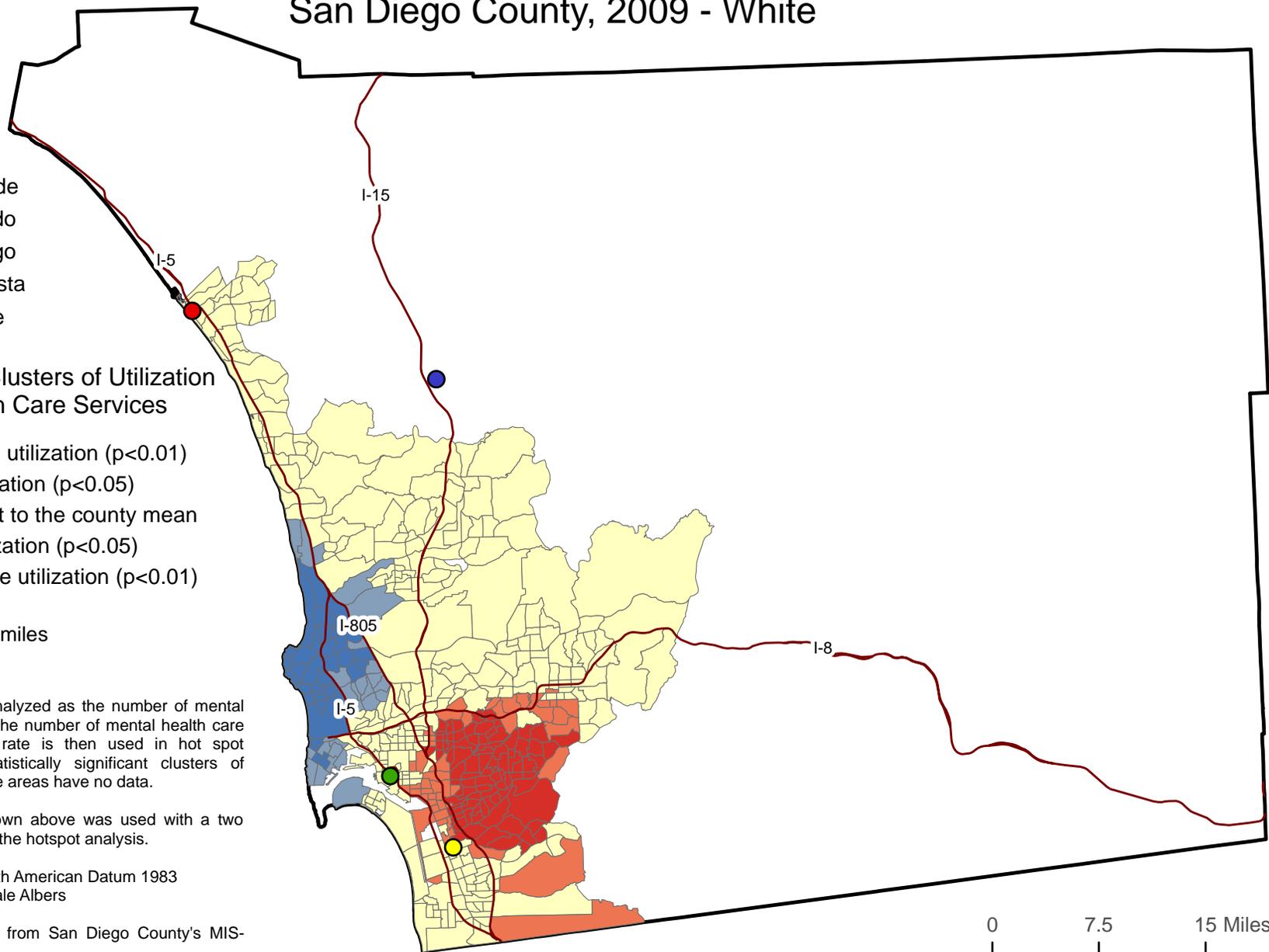
*Notes:

The utilization rate is analyzed as the number of mental health visits divided by the number of mental health care clients. The utilization rate is then used in hot spot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database.



Utilization* of Mental Health Care Services San Diego County, 2009 - Black

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Utilization of Mental Health Care Services

- Much less utilization ($p < 0.01$)
- Less utilization ($p < 0.05$)
- Equivalent to the county mean
- More utilization ($p < 0.05$)
- Much more utilization ($p < 0.01$)

Distance Band: 9.3 miles

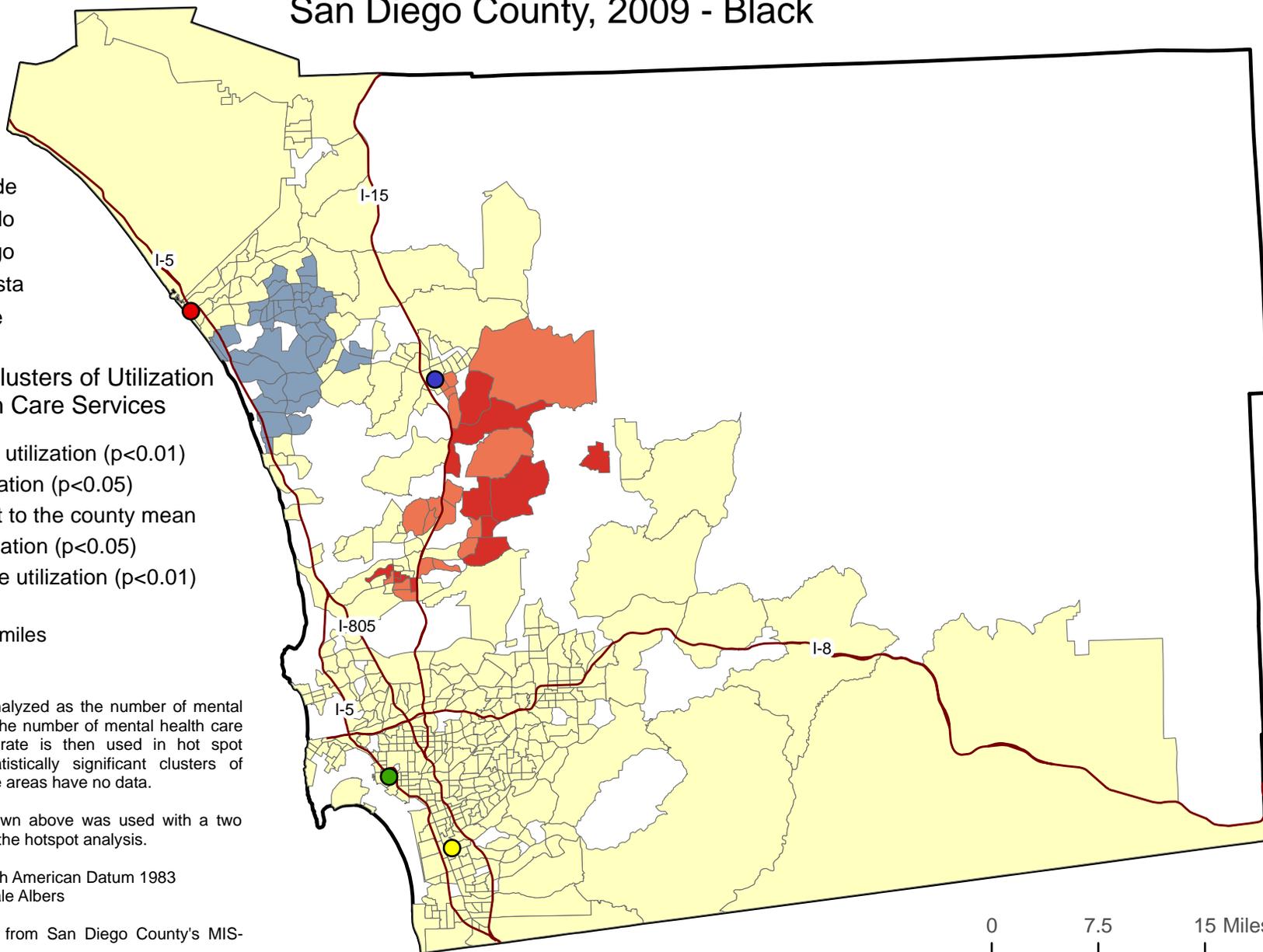
*Notes:

The utilization rate is analyzed as the number of mental health visits divided by the number of mental health care clients. The utilization rate is then used in hot spot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database.



0 7.5 15 Miles

Utilization* of Mental Health Care Services San Diego County, 2009 - Other

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Utilization of Mental Health Care Services

- Much less utilization ($p < 0.01$)
- Less utilization ($p < 0.05$)
- Equivalent to the county mean
- More utilization ($p < 0.05$)
- Much more utilization ($p < 0.01$)

Distance Band: 5.3 miles

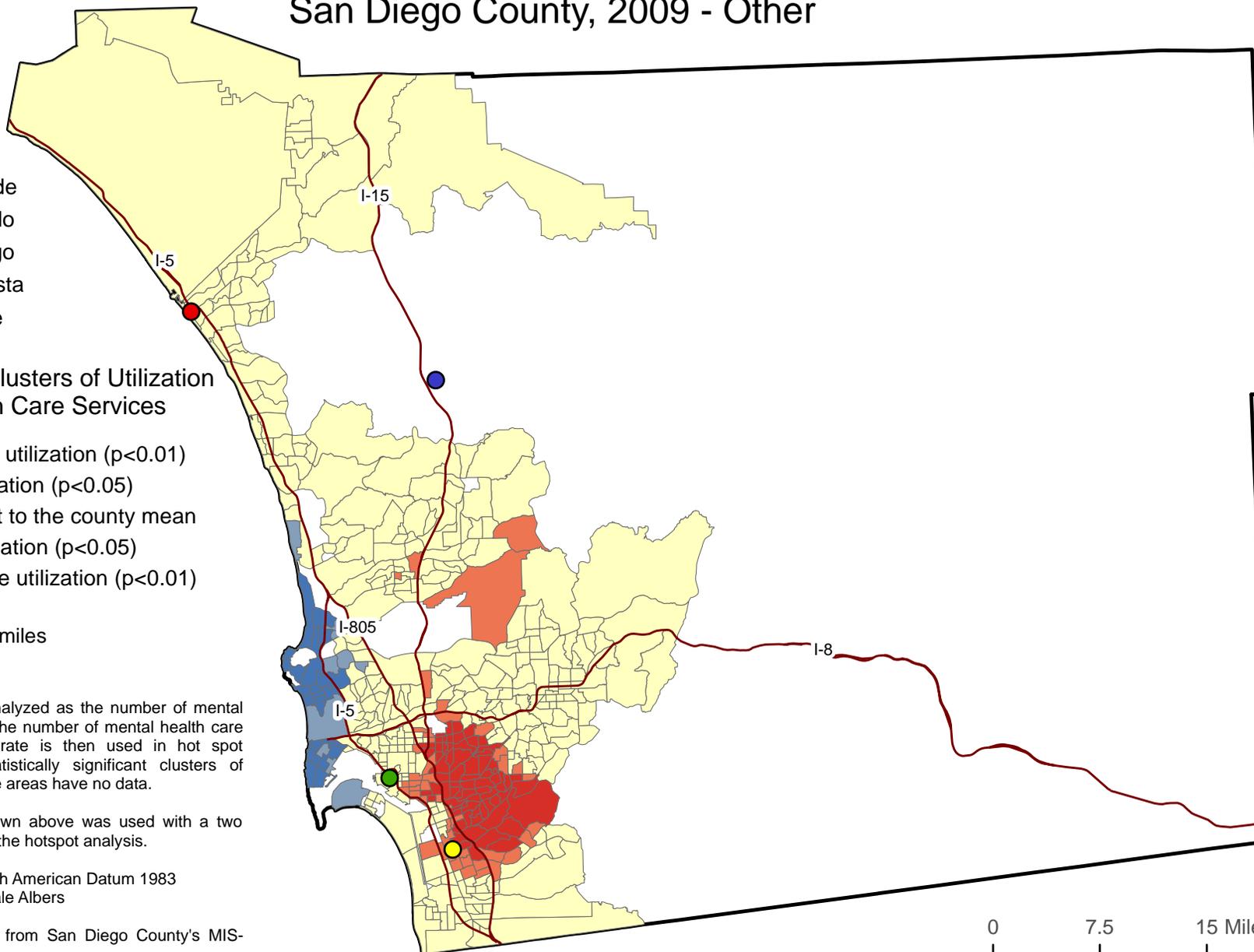
*Notes:

The utilization rate is analyzed as the number of mental health visits divided by the number of mental health care clients. The utilization rate is then used in hot spot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

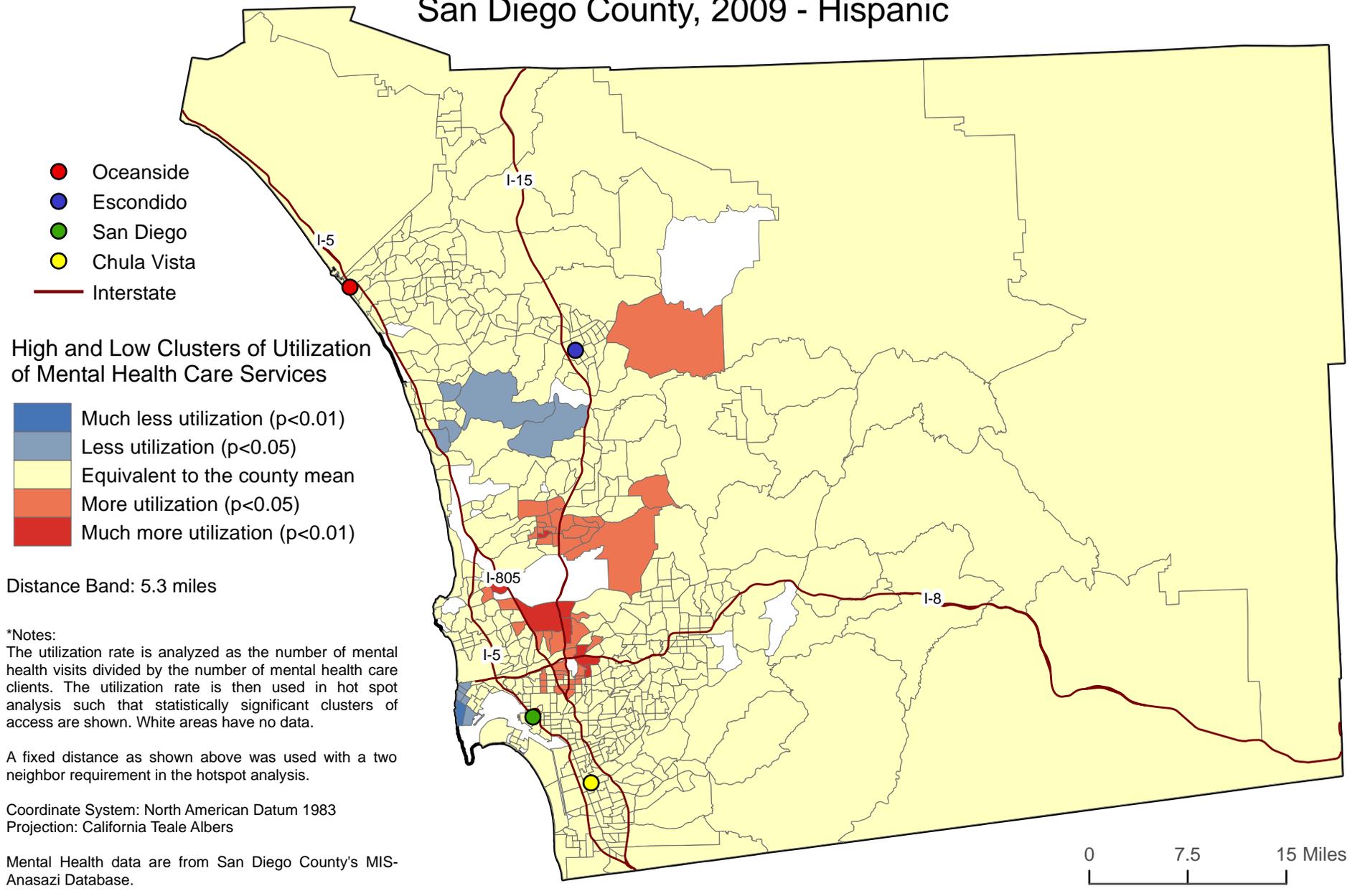
Mental Health data are from San Diego County's MIS-Anasazi Database.



0 7.5 15 Miles

Utilization* of Mental Health Care Services

San Diego County, 2009 - Hispanic



Utilization* of Mental Health Care Services San Diego County, 2009 - Not Hispanic

- Oceanside
- Escondido
- San Diego
- Chula Vista
- Interstate

High and Low Clusters of Utilization of Mental Health Care Services

- Much less utilization ($p < 0.01$)
- Less utilization ($p < 0.05$)
- Equivalent to the county mean
- More utilization ($p < 0.05$)
- Much more utilization ($p < 0.01$)

Distance Band: 5.0 miles

*Notes:

The utilization rate is analyzed as the number of mental health visits divided by the number of mental health care clients. The utilization rate is then used in hot spot analysis such that statistically significant clusters of access are shown. White areas have no data.

A fixed distance as shown above was used with a two neighbor requirement in the hotspot analysis.

Coordinate System: North American Datum 1983
Projection: California Teale Albers

Mental Health data are from San Diego County's MIS-Anasazi Database.

