

Los Angeles County - Department of Public Health
Quality Improvement Division
Oral Health Program

WATER FLUORIDATION STATUS IN LOS ANGELES COUNTY CITIES OVER A 23-YEAR PERIOD

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Los Angeles County (LAC) Facts

- Cities in Los Angeles County:
 - There are 88 cities in LA County (90% of LAC population)
 - Approximately 10% of county residents live outside of the 88 cities in “unincorporated areas”
 - LA City is the 2nd most populous city in the United States (New York City is the most as it consists of 5 boroughs/counties)
- County population estimated to be more than 10 million (**the most populous and most diverse county in US**);
- 4,058 square miles;



Los Angeles County (LAC) Facts

- It is larger than the combined areas of the states of Rhode Island and Delaware;
- It is larger in population than 41 of the 50 states.
- More than 25% of California residents live in LAC;
- Population density is very high: 2,420 people per square mile;
- Los Angeles County has the highest number of millionaires and the largest number of homeless people of any county;



Water Fluoridation



CDC has recognized
water fluoridation as
one of the 10 great
public health
achievements of the
20th century.

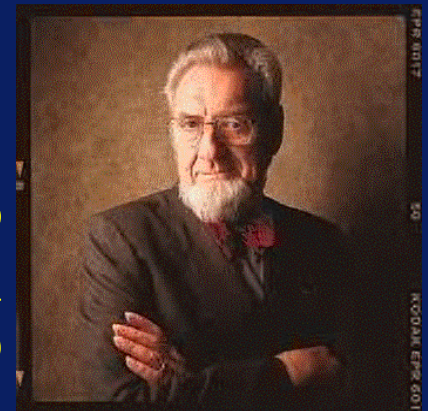


Fluoridation

"Fluoridation is the single most important commitment a community can make to the oral health of its children and to future generations."



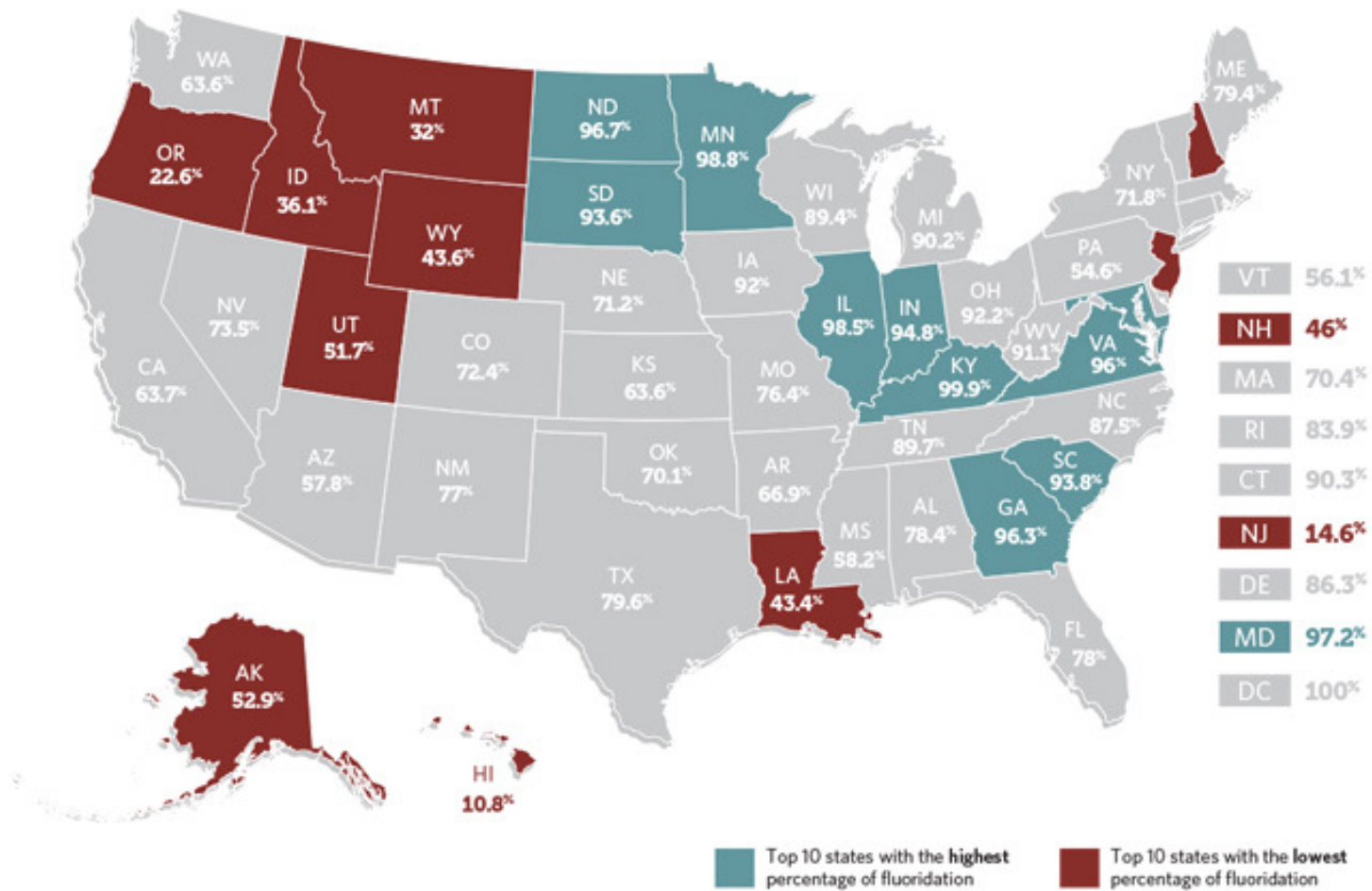
**Dr. C. Everett Koop
United States Surgeon General
1981-1989**





Community Water Fluoridation: The Top 10 and Bottom 10

The percentage of residents served by public water systems in each state who are receiving fluoridated water.¹



72 million
 Americans who are served by public water systems **lack** access to fluoridated drinking water

The CDC has recognized water fluoridation as one of "10 great public health achievements of the 20th century."²



¹ Centers for Disease Control and Prevention, "2012 Water Fluoridation Statistic." Data covers only residents whose homes are connected to public water systems.

² Centers for Disease Control and Prevention, "Ten Great Public Health Achievements-United States, 1900-1999," <http://www.cdc.gov/mmwr/preview/mmhtml/00056796.htm>.

Water Fluoridation

- Percentage of CA population on public water systems receiving fluoridated water: **63.7%** (rank 34)
- Percentage of U.S. population on public water systems receiving fluoridated water: **74.6%**

2012 CDC Fluoridation data



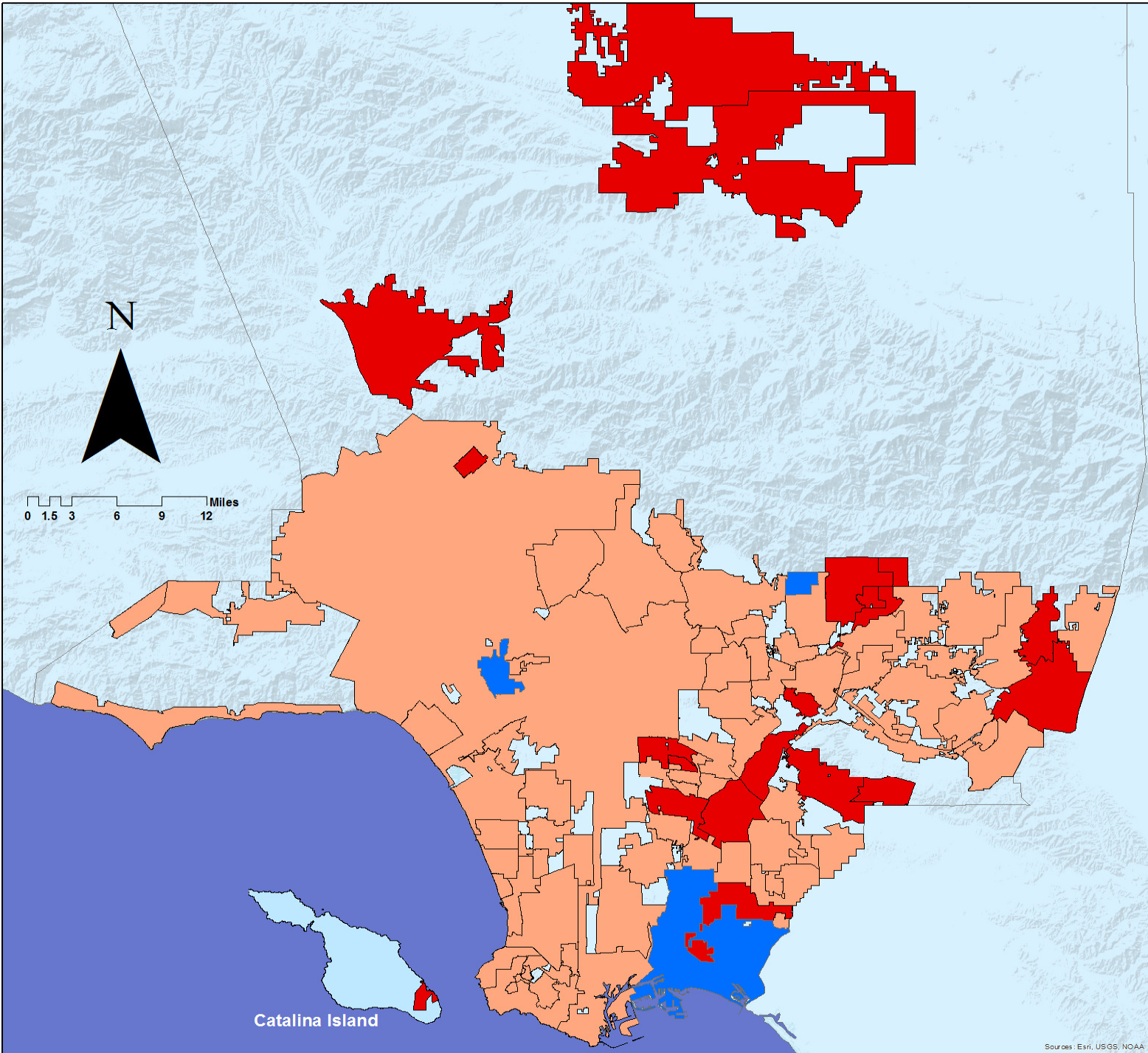
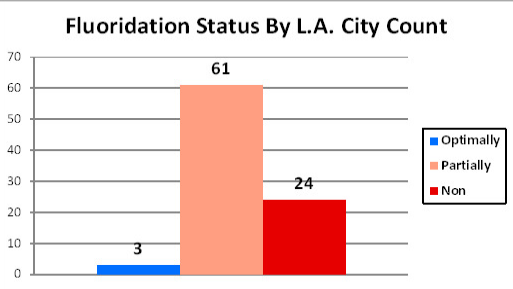
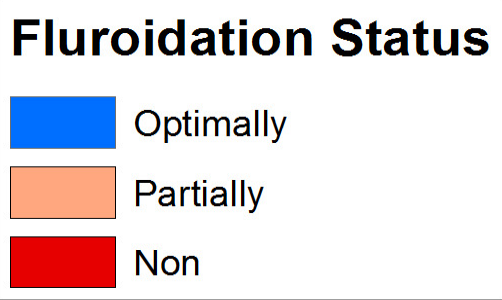
Timeline of LAC Fluoridation

- **1990** - Only 0.5 % of LAC is Fl. – City of Long Beach, City of Beverly Hills and Sierra Madre (naturally)
- **1995** - AB 733 Passed into law – No provision for funding but requires the CA DPH to seek for funding
- **1997** - CA Endowment grants \$15 million to water fluoridation
- **1999** - The City of LA is optimally fluoridated (\$2 million)
- **2001** - \$5.5 million to MWD – The fluoridation of MWD was the largest fluoridation project in the U.S. and had the potential to reach 18 million, but actually reached about 11 million.
- **2007** - \$0.5 million goes to the City of Santa Monica
- **2010** - First 5 LA grants \$6.1 million (Golden State Water Company, Torrance and Park Water Company)





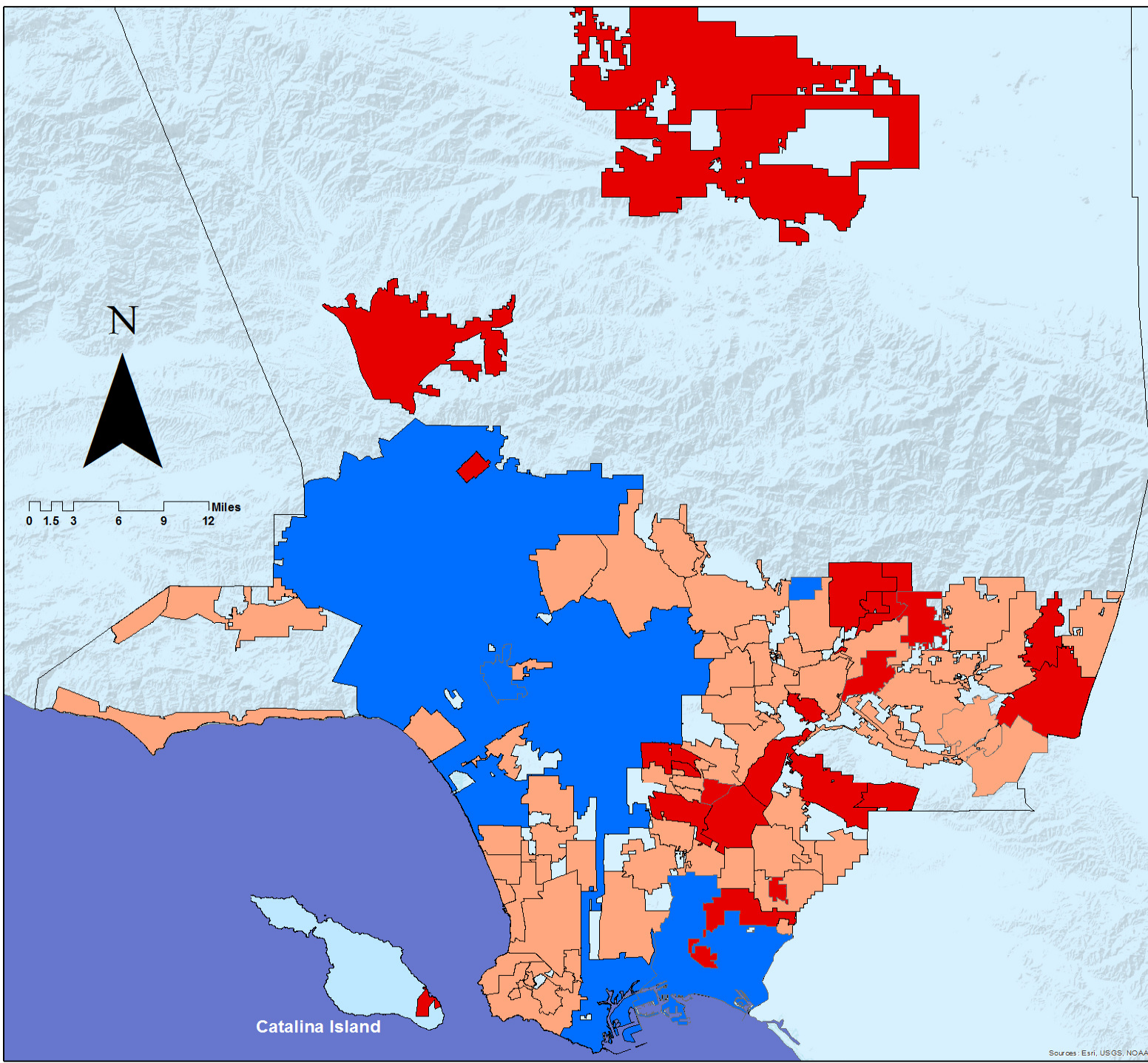
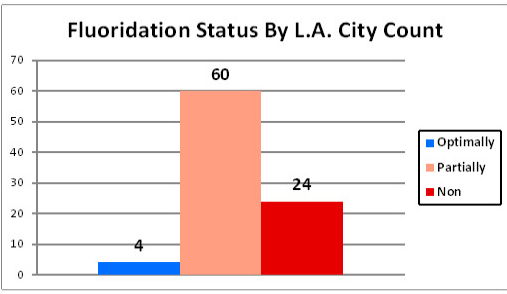
Fluoridation Status of LAC Cities 1990





Fluoridation Status of LAC Cities 1999

Fluoridation Status



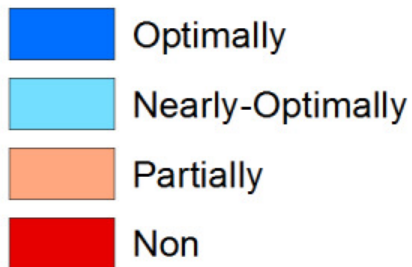


Metropolitan Water District Service Areas

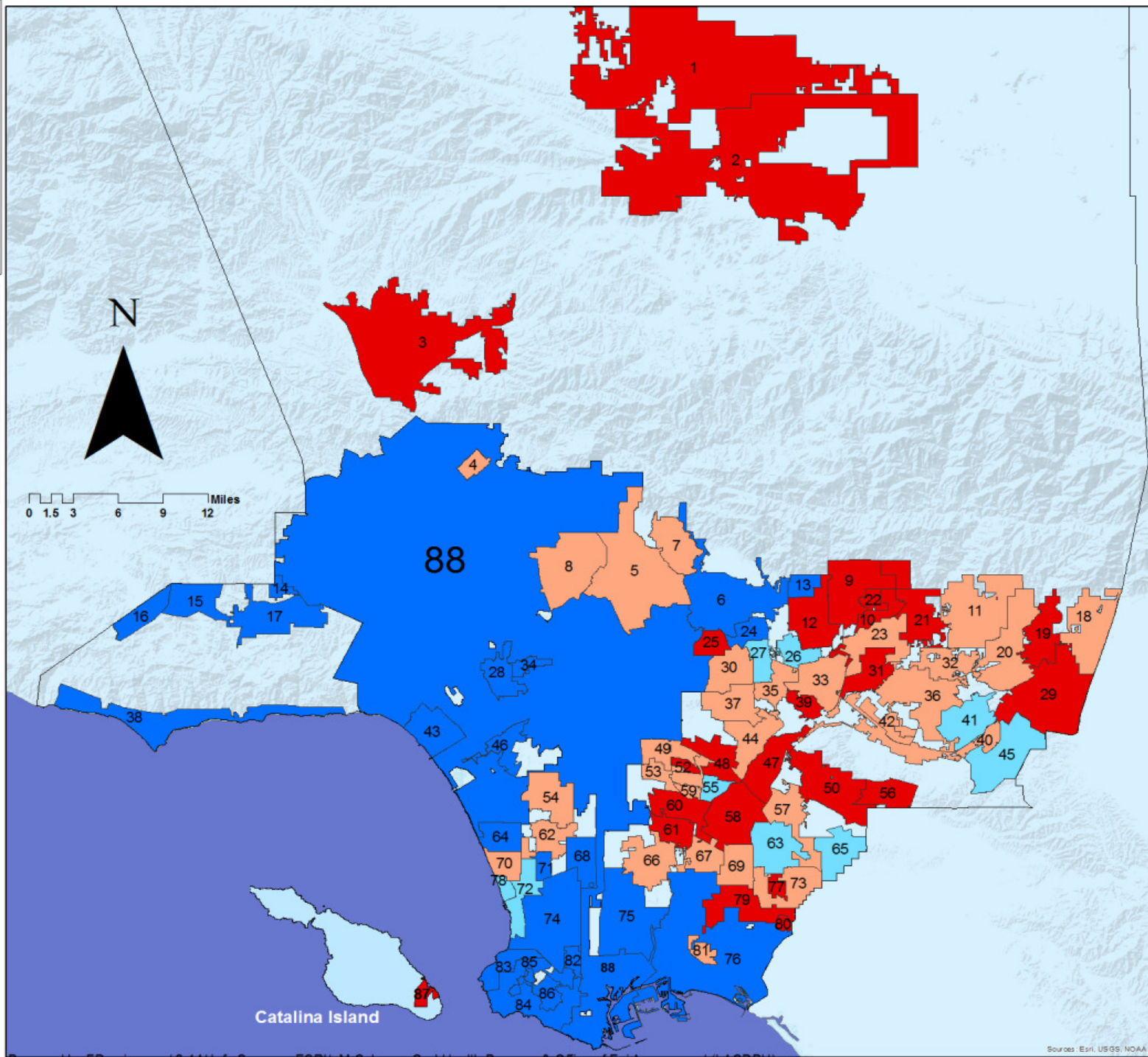
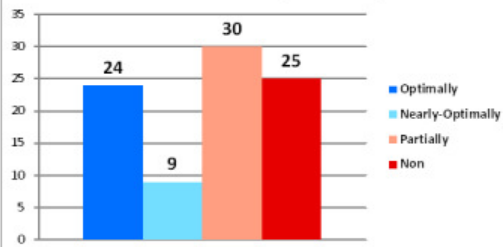


Fluoridation Status of L.A. County Cities 2014

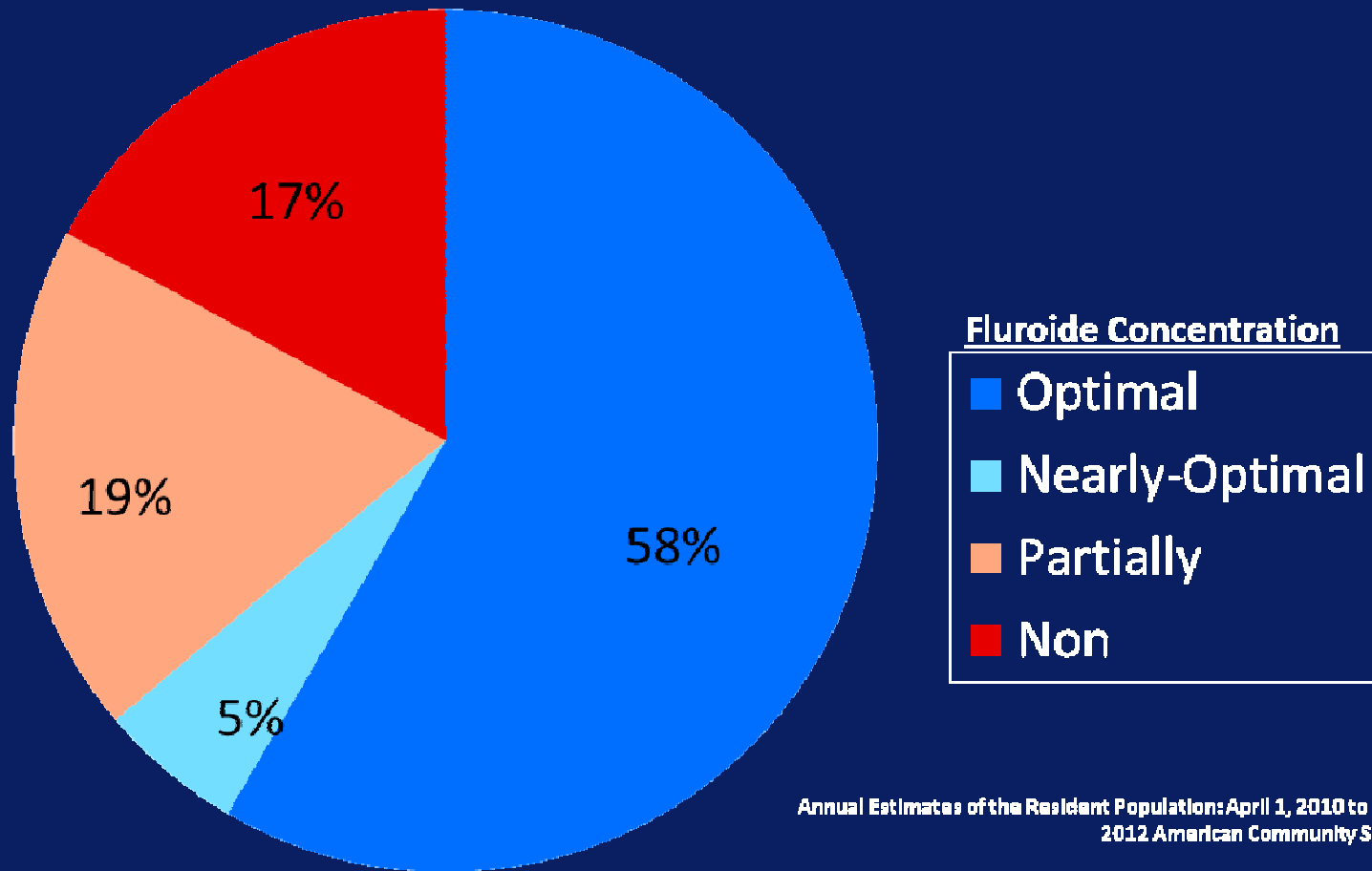
Fluoridation Status



Fluoridation Status By L.A. City Count



Percentage of LAC population on public water systems receiving fluoridated water (88 cities)

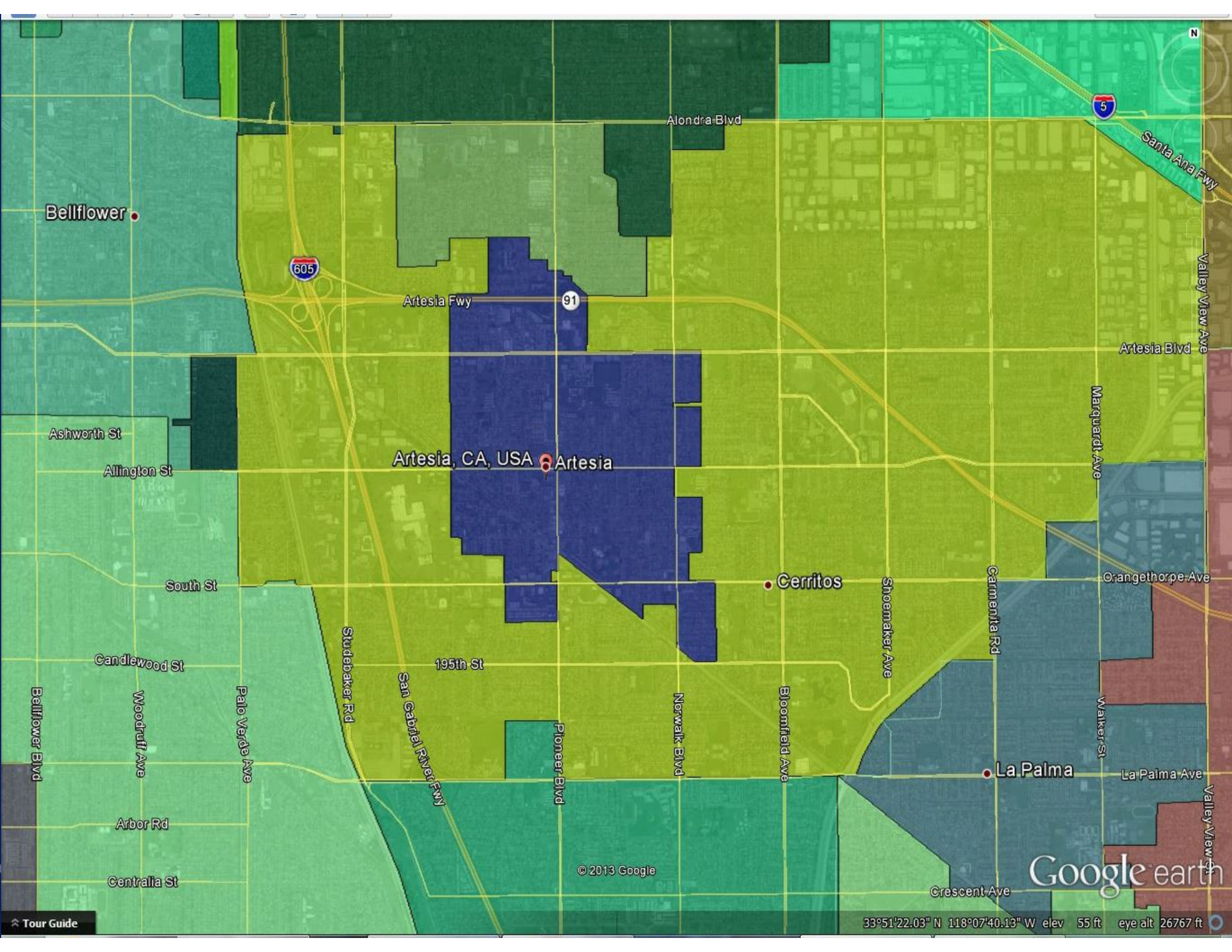


Annual Estimates of the Resident Population: April 1, 2010 to July 1, 2012 (American Community Survey)



What makes determining the fluoridation status of each LAC city so complex?





Bellflower

Alondra Blvd

605

Artesia Fwy

91

Santa Ana Fwy

Artesia Blvd

Artesia, CA, USA



Artesia

Ashworth St

Allington St

South St

Candlewood St

Woodruff Ave

Palo Verde Ave

Studebaker Rd

195th St

San Gabriel River Fwy

Pioneer Blvd

Norwalk Blvd

Bloomfield Ave

Shoemaker Ave

Garmentia Rd

Marquardt Ave

Walker St

Cerritos

Orangethorpe Ave

La Palma

La Palma Ave

© 2013 Google

Google earth

Crescent Ave

33°51'22.03" N 118°07'40.13" W elev 55 ft eye alt 26767 ft

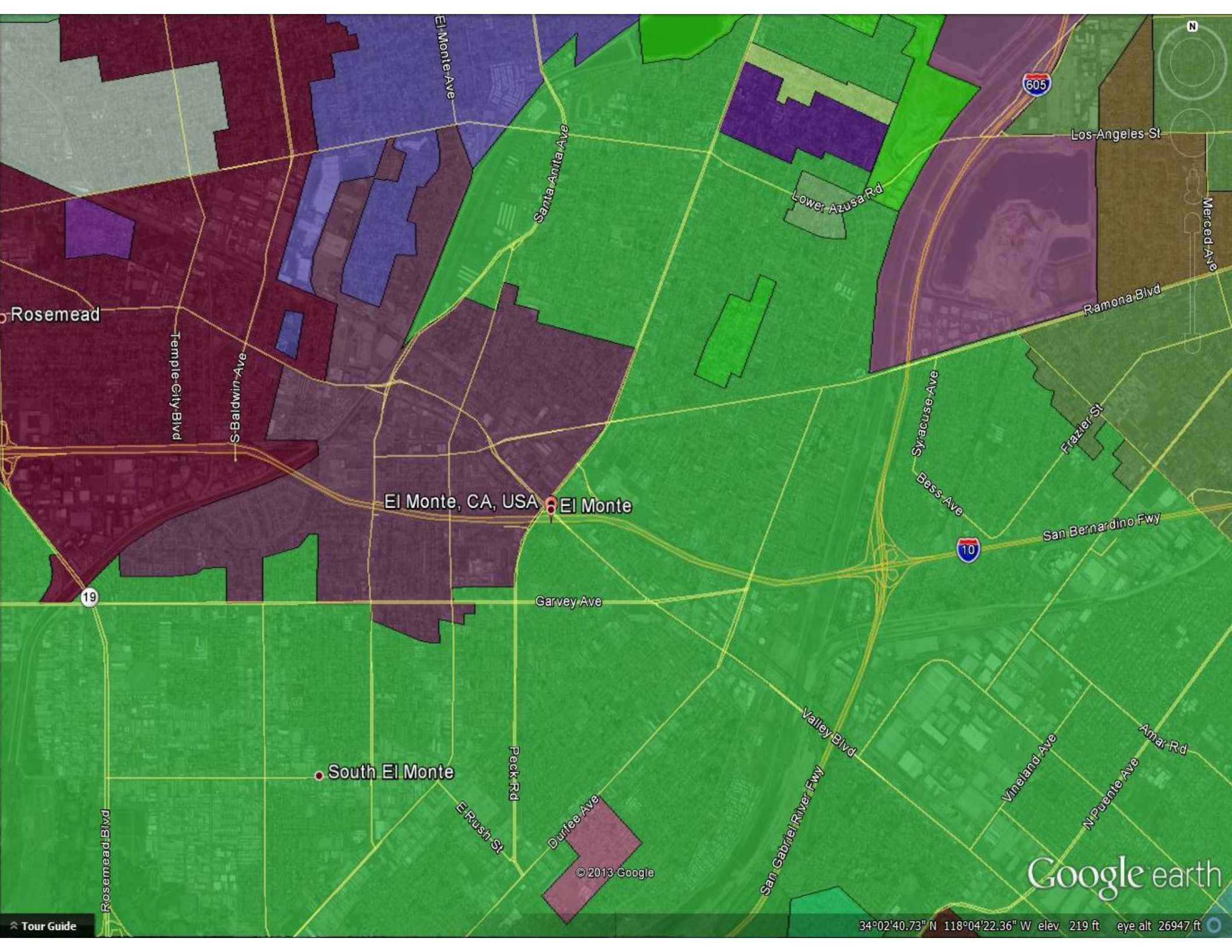
Tour Guide

Water Supply Sources

Artesia (16,000):

- 1- Park Water Co. Bellflower-Norwalk System
- 2- City of Cerritos Water Department
- 3- City of Norwalk Municipal Water Service
- 4- Golden State Water Company - Artesia
- 5- Metropolitan Water District of Southern California





El Monte, CA, USA

El Monte Ave

Santa Anita Ave

Lower Azusa Rd

Los Angeles St

Merced Ave

Ramona Blvd

Rosemead

Temple City Blvd

S Baldwin Ave

Syracuse Ave

Frazier St

Bess Ave

San Bernardino Fwy

South El Monte

Garvey Ave

Peck Rd

Durfee Ave

© 2013 Google

Valley Blvd

San Gabriel River Fwy

Vineyard Ave

N Puente Ave

Amar Rd

Google earth

Water Supply Sources

El Monte:

- 1 - CA American Water Company
- 2 - Adam Ranch Water Company
- 3 - Golden State Water Company
- 4 - El Monte Water Department
- 5 - San Gabriel Valley Water Company
- 6 - Valley View Mutual Water Company
- 7 - Del Rio Mutual Water Company
- 8 - Sterling Mutual Water Company
- 9 - Champion Mutual Water Company
- 10 - Rurban Homes Mutual Water Company



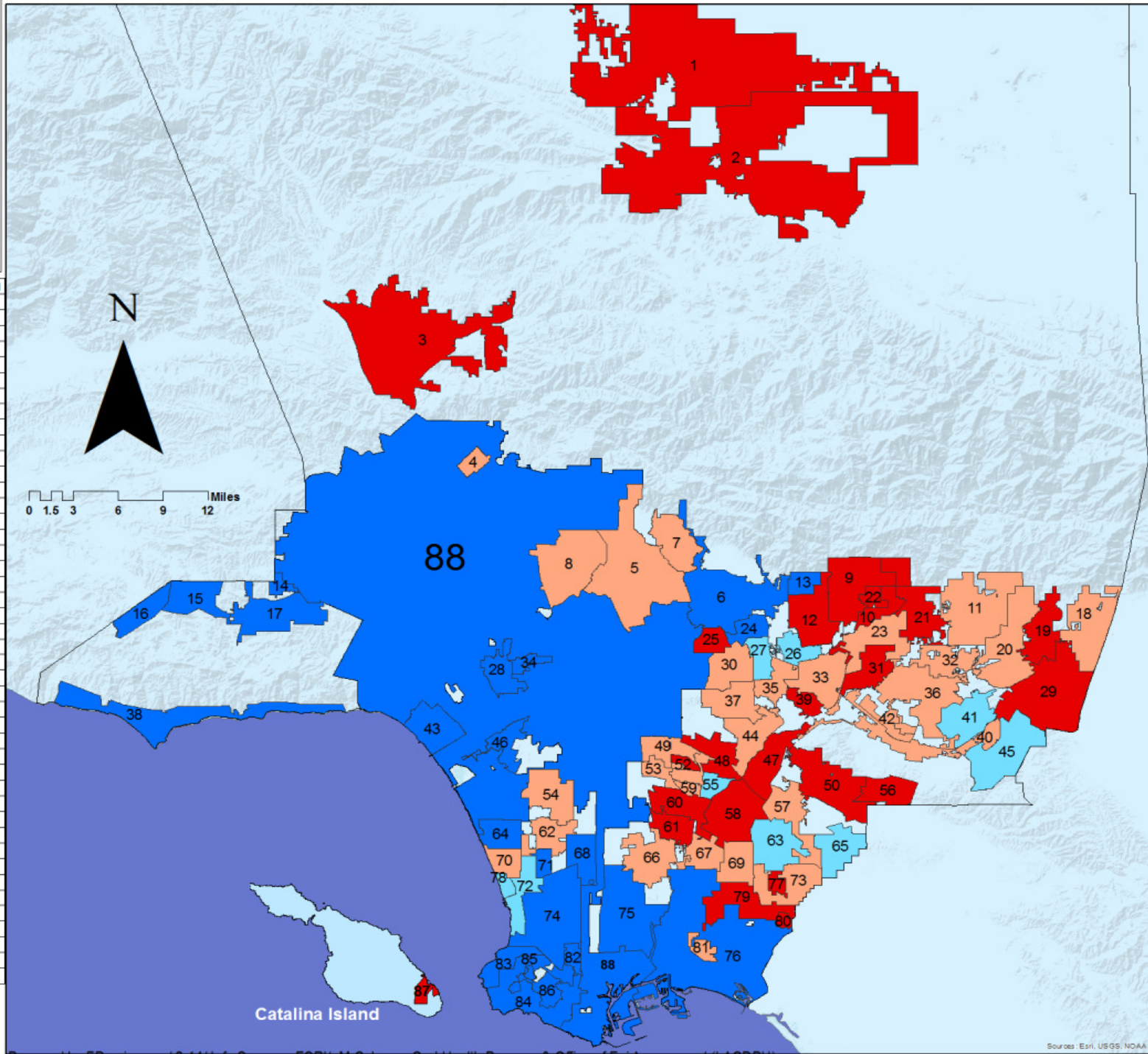


Fluoridation Status of L.A. County Cities 2014

Fluoridation Status

- Optimally
- Nearly-Optimally
- Partially
- Non

City #	NAME	Fl Level	City #	NAME	Fl Level
15	Agoura Hills	Opt	1	Lancaster	Non
30	Alhambra	Partial	71	Lawndale	Opt
12	Arcadia	Non	82	Lo mito	Opt
77	Artesia	Non	76	Long Beach	Opt
87	Avalon	Non	88	Los Angeles	Opt
21	Azusa	Non	61	Lynwood	Non
31	Baldwin Park	Non	38	Malibu	Opt
51	Bell	Partial	70	Manhattan Beach	Partial
55	Bell Gardens	NearOpt	52	Maywood	Non
69	Bellflower	Partial	9	Monrovia	Non
28	Beverly Hills	Opt	44	Montebello	Partial
22	Bradbury	Non	37	Monterey Park	Partial
8	Burbank	Partial	63	Norwalk	NearOpt
17	Calabasas	Opt	2	Palmdale	Non
75	Carson	Opt	83	Palos Verdes Estates	Opt
73	Cerritos	Partial	67	Paramount	Partial
18	Claremont	Partial	6	Pasadena	Opt
48	Commerce	Non	47	Pico Rivera	Non
66	Compton	Partial	29	Pomona	Non
32	Covina	Partial	84	Rancho Palos Verdes	Opt
59	Cudahy	Partial	72	Redondo Beach	NearOpt
46	Culver City	Opt	86	Rolling Hills	Opt
45	Diamond Bar	NearOpt	85	Rolling Hills Estates	Opt
58	Downey	Non	35	Rosemead	Partial
10	Duarte	Non	20	San Dimas	Partial
33	El Monte	Partial	4	San Fernando	Partial
64	El Segundo	Opt	27	San Gabriel	NearOpt
68	Gardena	Opt	24	San Marino	Opt
5	Glendale	Partial	3	Santa Clarita	Non
11	Glendora	Partial	57	Santa Fe Springs	Partial
80	Hawaiian Gardens	Non	43	Santa Monica	Opt
62	Hawthorne	Partial	13	Sierra Madre	Opt
78	Hermosa Beach	NearOpt	81	Signal Hill	Partial
14	Hidden Hills	Opt	39	South El Monte	Non
53	Huntington Park	Partial	60	South Gate	Non
40	Industry	Partial	25	South Pasadena	Non
54	Inglewood	Partial	26	Temple City	NearOpt
23	Irwindale	Partial	74	Torrance	Opt
7	La Canada Flintridge	Partial	49	Vernon	Partial
56	La Habra Heights	Non	41	Walnut	NearOpt
65	La Mirada	NearOpt	36	West Covina	Partial
42	La Puente	Partial	34	West Hollywood	Opt
19	La Verne	Non	16	Westlake Village	Opt
79	Lakewood	Non	50	Whittier	Non



Map Goals

- Highlight priority cities and/or systems
- Assist physicians and dentists to make decisions in prescribing fluoride supplements
- Help create community support for fluoridation by visualization of discrepancies
- Provide accurate information on the location of fluoridation to city council members and other decision-makers





Fluoridation Status of LAC Cities & Adults That Could Not Afford Dental Care in 2014

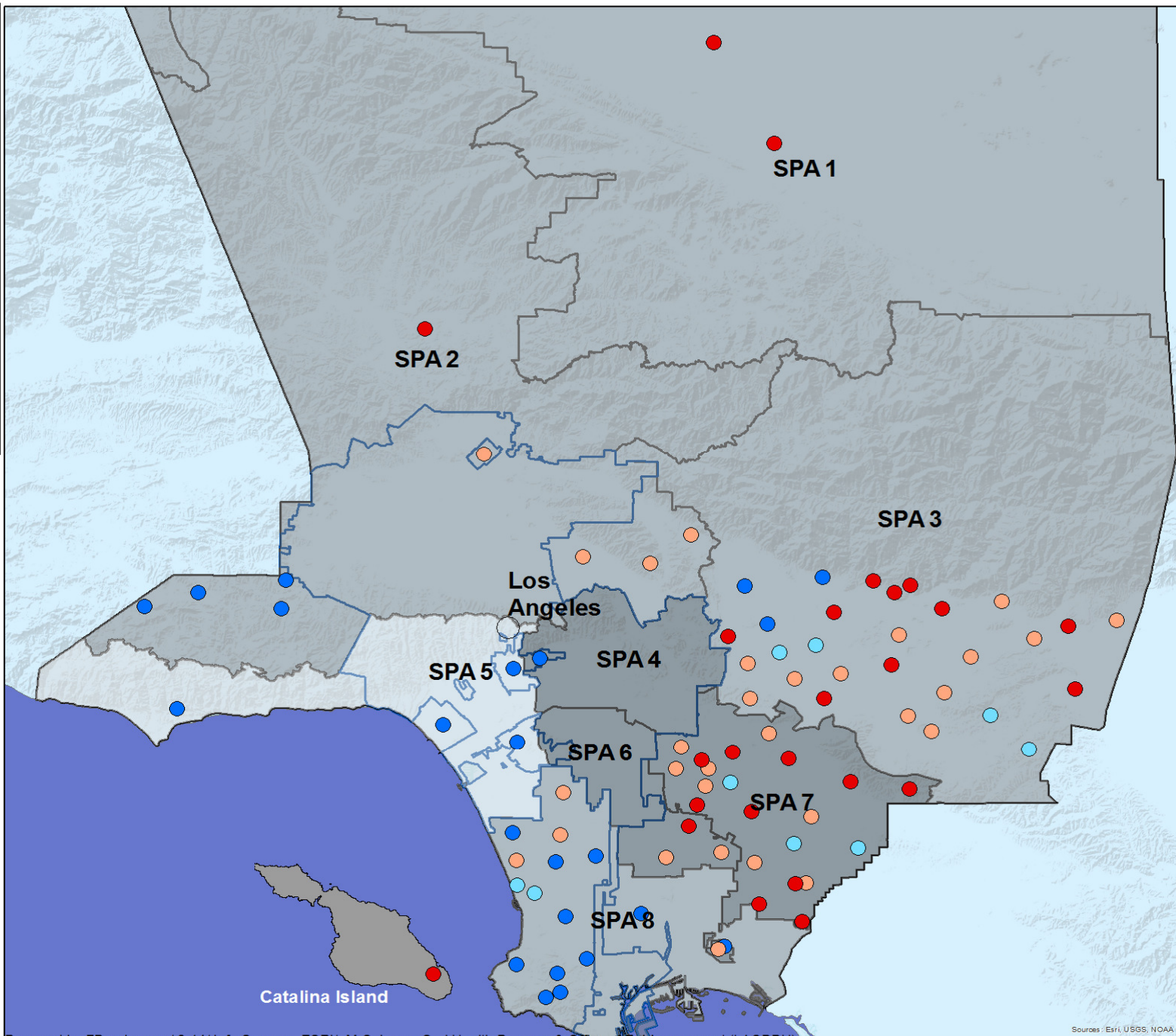
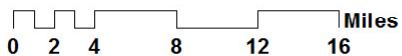
LAC City Fluoridation Status

- Optimally
- Nearly-Optimally
- Partially
- Non

Los Angeles-Optimally

Adults Not Afford Dental Care

- 19% - 25.3%
- 25.4% - 31.7%
- 31.8% - 38%





Thank you!!

Questions?

