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 2\textsuperscript{nd} most populous city in the United States (New York City is the most as is 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.

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.”

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

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 1999

Fluoridation Status
- Optimally
- Partially
- Non

Fluoridation Status By L.A. City Count

Catalina Island

Prepared by F. Dominguez, OWH/6-24-13. Info Sources: ESRI M. Cabezas Oral Health Program & Office of Epi Assessment (LACDPH)
Percentage of LAC population on public water systems receiving fluoridated water (88 cities)

- Optimal: 58%
- Nearly-Optimal: 19%
- Partially: 17%
- Non: 5%

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?
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
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

Legend:
- Optimally
- Nearly-Optimally
- Partially
- Non

City Map:
- Optimally
- Nearly-Optimally
- Partially
- Non

Prepared by F. Dominguez 2014
Sources: LSIN, LA County Dental Health Program & Division of Environmental Assessment (LACDPH)
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
Thank you!!

Questions?