


TAB P


Waterwatch of Utah

Public Water Fluoridation
Risk Assessment
Impacts on Operations & Budget



The Davis County Board of Health took out a full page ad, the day before the 2000 vote, representing the cost would be \$1.38 per person per year or about **\$338,569.00** to fluoridate all of Davis County.


The actual cost is close to **5 Million.**



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In SL County, their Health Department represented the cost to be \$1.00 per person per year or about **\$880,000.00**

The actual numbers were coming in close to **\$25M.**

SLVHD started to negotiate.



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Cost of alternating of life expectancy of water supply equipment, e.g., un-lined cast iron distribution pipes, by fluoridaztion

- Unlined cast iron pipes were used for distribution systems constructed before 1940.
- In 1990, AWWARF surveyed 35 utilities and stated that 6 utilities (older systems) had over 50% of unlined cast iron pipes, the over-all average (35 utilities with young and old systems combined) had 25% of unlined cast iron pipe.
- United Water New Jersey serves 750,000 persons in Bergen and Hudson Counties, has 2,000 miles of water main of which 46% were unlined cast iron pipes.
- Assuming the distribution systems in the NJ's high population density areas have 40% of unlined cast iron pipes (pre-1940 vintage), the projected total length of unlined cast iron pipes in NJ is 7,100 miles.
- Cost of cleaning and lining of cast iron pipes: \$55 per linear foot (2005 price)
Statewide total costs: $\$55 \times 7,100 \text{ miles} \times 5,280 \text{ ft.} = \$2,062,000,000$.
- Assuming the life expectancy of those 7,100 miles of unlined cast iron pipes is 30 years. With fluoridation, the life expectancy will be shortened by 50%.

Case 1: No fluoridation, life expectancy is 30 years, after cleaning and lining, the pipe will restore its service life.

cost of cleaning & lining: $\$2,062,000,000 \div 30 \text{ years} = \$68,700,000$. per year

Case 2: With fluoridation, life expectancy becomes 15 years.

cost of cleaning & lining: $\$2,062,000,000 \div 15 \text{ years} = \$137,400,000$. per year

Additional annual expense due to fluoridation: \$68,700,000. per year or \$10.35 per person per year