



City of Harrisonburg Public Water Fluoridation Practices

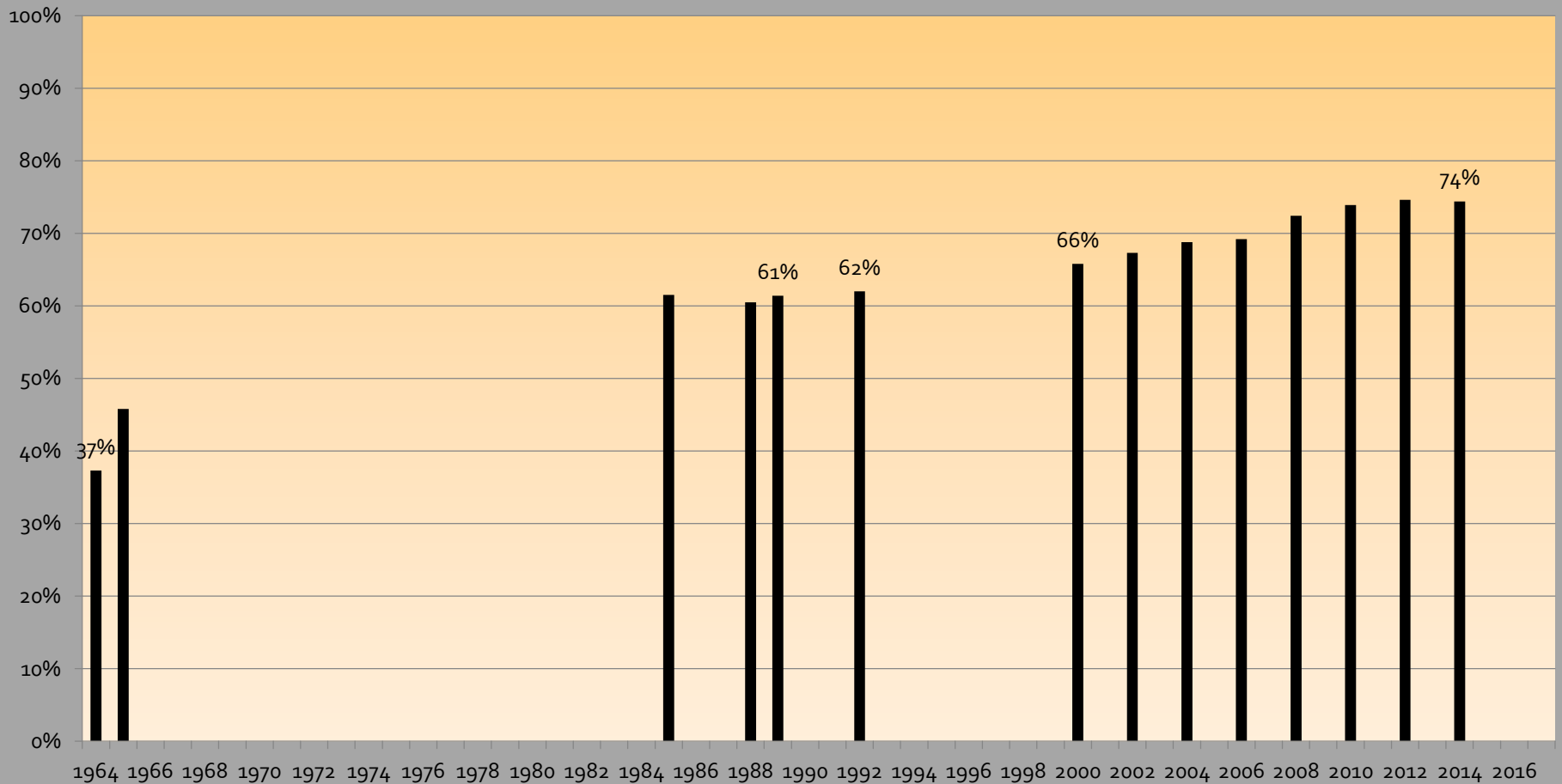
Adding Fluoride to Drinking Water?

- Less than 0.7 ppm
Ineffective and inefficient
- 0.7 to 0.9 ppm
 - Top ten health measures of last century by CDC
- 4.0 ppm
 - Regulated Primary Inorganic Contaminant

CWF Nationally & Internationally:

- Supported by >100 health organizations
- 74% CWF in US in 2014

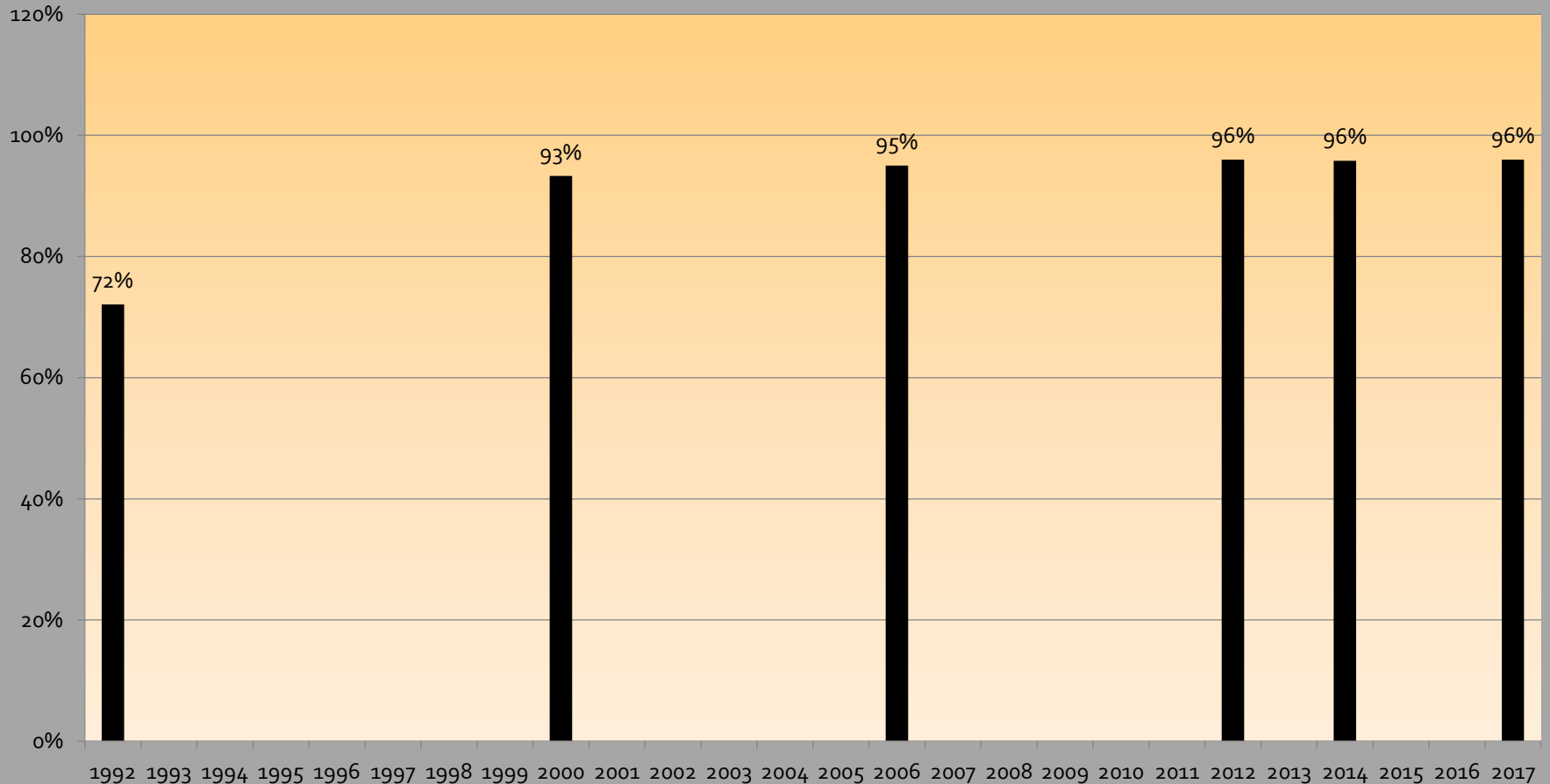
US Community Water Fluoridation



CWF in Virginia:

- CWF is determined by the locality
- 95% in 2016

Virginia Community Water Fluoridation



CWF in Harrisonburg

- Implemented by Ordinance 1973
- Since 2006 used Hydrofluosilicic Acid (HFSA)
- In 2016: 8,700 gallons at cost of \$26,000
Delivered 1.0 ppm & sampled 15 per day
- Repealed Ordinance 2016 For Repair & Upgrade



- Leaking Storage Tank; performance
- Employee Exposure; health & safety
- Equipment Exposure; asset Life Cycle



City of Harrisonburg, Public Utilities Department

Grandview Water Treatment Plant Replacement Fluoride System PER

W/W Commission: 216225.00

Final Report w/ Addendum #3: 3-8-17



W&W Study Summary

- Alternative #1 & #2

Granular Sodium Fluoride

Inside Isolation Room \$387,503

Outside Building \$367,675

- Alternative #3 & #4

Hydrofluosilicic Acid

Inside Isolation Room \$171,325

Outside Building \$188,650

Recommendation by Staff

- Engage Alternative #4
- Pursue \$40,000 state grant funding
- Rewrite ordinance for best management practices supported by VDH Water Resources Division

Impacts

- \$150,000 to \$190,000 in capital funds from WTP asset management fund
- \$25,000+ in annual costs
- \$0.02 per 1000 gallons rate impact
- Mitigate employee exposure
- Mitigate equipment exposure

Questions?

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Director

Public Utilities Department