

**PERCENT OF H₂SiF₆ REACHING TARGETED CHILDREN
DISTRICT OF COLUMBIA**

70 x 10⁶ gal/day pumped by D.C. Water Authority

70 x 10⁶ gal/day x 8.3 lb/gal = **581 x 10⁶ lb/day H₂O pumped**

@ 1 ppm Fluoride (F) added, 581 lb/day F is added

H₂SiF₆ F.W. = 144 lb/mol; % F = $\frac{6 \text{ F} \times 19 \text{ lb/mol}}{144 \text{ lb/mol}} = 79\%$

581 lb/day F ÷ .79 = 735 lb/day H₂SiF₆ ASSAY = 24%

735 lb/day ÷ .24 = 3064 lb/day COMMERCIAL GRADE (CG) USED

3064 lb/day x 365 day/yr = 1.12 x 10⁶ lb/yr CG H₂SiF₆ USED/yr

1990 CENSUS: D.C. HAS 44,174 CHILDREN 5 YRS AND YOUNGER

44,174 CHILDREN x 1 L H₂O/day-child x 2.2 lb/L = 9.72 x 10⁴ lb H₂O/day

9.72 x 10⁴ lb/day ÷ 5.81 x 10⁸ lb/day = 1.67 x 10⁻⁴ = 0.0167%

1.67 x 10⁻⁴ x 1.12 x 10⁶ lb/yr = **187 lb/yr**

187 lb (0.017%) REACHES TARGET POPULATION

**1,119,813 lb (99.983%) GOES DOWN THE DRAIN
INTO THE ENVIRONMENT OR INTO NON-TARGET PEOPLE**

Similar calculations for the States of Ohio and Missouri confirm these figures.

