

Nonfluoridated Thunder Bay vs Fluoridated Cities Cavity rates and costs

Using the statistics of the 1992 Status Report on "Communal Water Fluoridation in Ontario", 13 year olds in 8 communities are compared.

The communities included in this comparison included; Thunder Bay, Algoma, Porcupine, Kenora-Rainy River, Timiscaming, North Bay, Sudbury, Toronto.
Source: Hettenhausen WK, DDS. Extraordinary Dental Health In Thunder Bay. Northern Bites.

Decayed, Missing and Filled Teeth (DMFT) is a measurement commonly used to assess dental health in a community. A higher DMFT score indicates a higher prevalence of tooth decay.

Community	DMFT (Decayed, Missing, Filled Teeth)	Artificial Water Fluoridation	C.I.N.O.T. Costs 1991
Thunder Bay	1.75	No	\$1.60
Toronto	1.97	Yes	\$7.06
Sudbury	2.39	Yes	
North Bay	2.22	Yes	
Timiscaming	2.01	Yes	

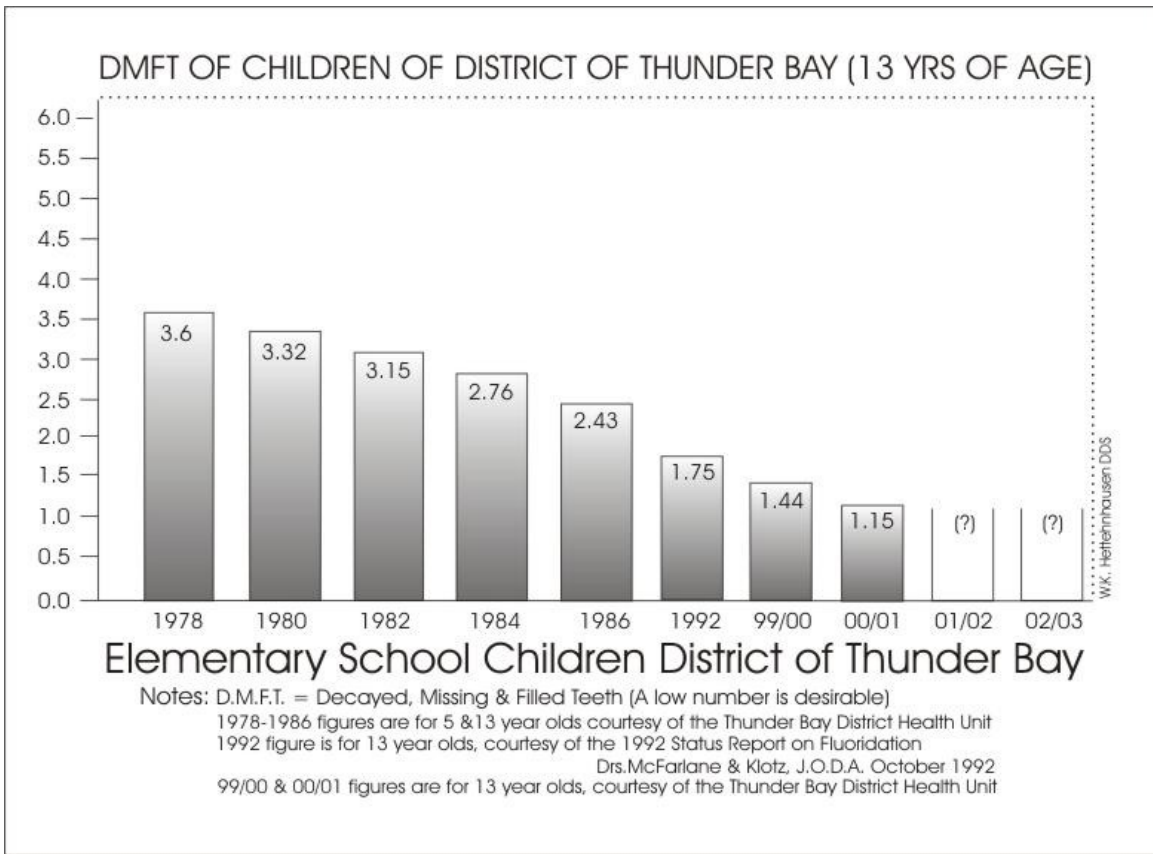
This is raw survey data only. Confounding variables which are known to influence cavities in human populations (e.g. nutrition, socio-economic status) were not controlled.

COSTS: Children in Need of Treatment (C.I.N.O.T.) cost per capita in TB was \$1.60 in 1991. CINOT cost per capita in Toronto was \$7.06. (Hettenhausen)

This evidence does not demonstrate any oral health benefit from the use of artificial water fluoridation.

This evidence does not demonstrate any cost benefit from the use of artificial water fluoridation.

The following chart using data from the Thunder Bay District Health Service 1999-2001, and the Ontario 1992 Status Report on Fluoridation, demonstrates how the rate of dental decay (Decayed, Missing, Filled Teeth) has declined steadily in Thunder Bay over the past 3 decades, in the absence of artificial water fluoridation. This parallels the data from the WHO showing similar declines in both fluoridated and non-fluoridated countries.



Tooth Decay Trends: Fluoridated vs. Unfluoridated Countries
 (All data from World Health Organization)

