New front burner fluoridation issues are common. In Oregon 2005 it was Salmon Runs. Fluoridation's effect on natural rivers such as the Columbia is too small to have any conceivable impact on Salmon. Since 2003 it is Chinese epidemiological IQ reports.

Here is the paper at the heart of the furor, a metanalysis of mostly Chinese papers on IQ and fluoride exposures.

Note the author's choice of words "high fluoride."

Fluoridated water and neurodevelopment has been previously studied. Here 1986 New Zealand research shows no ill effect.

New, soon to be published data from Dunedin, New Zealand shows better IQ for those who stay in the fluoridated city during critical brain development.

The Wichita Eagle quotes the authors that fluoridation voters should not consider their study.

And for good reason!!

Meta-analyses of highest quality research, randomized controlled trials, are often mistaken. This analysis combined epidemiological environmental descriptive studies - very low quality information in the author's own judgment.
And the authors very clearly state that these papers have serious deficiencies.

China is a polluted place. Pollution, visible both on the ground and from space is good reason these studies should not set US public health policy.

These studies weren't necessarily even about drinking water. Well studied pollution events show exposures exponentially higher than .7 ppm water.

Known issues were specifically recognized in a few of the papers and not properly ruled out in most.

The reference comparison of "low fluoride" most often was that of fluoridation’s concentration. . . .those papers straightforwardly demonstrate fluoridation's safety.

Almost none were subject to the Western peer review process.
And many can be found only on advocacy web pages or not available at all for general analysis and criticism.

Cofounders, which make IQ research difficult, were poorly considered. Other environmental pollutants are of particular concern.

Again, perhaps most amazingly, the reference group with higher IQ's drank water with an average of 0.78 ppm, just a bit more than the current 0.70 ppm optimal target.

A very important study comparing low, optimal and high water fluoride to bone fracture rates. Fluoridation causes the best skeletal health with as many fractures at low and high water levels.

The only Chinese Study to compare low, optimal and high fluoride drinking water to IQ found similarly.

The author said: "it was discovered that both high and low fluoride had an effect on child intelligence." Both high and low fluoride may disrupt intellectual development.

Poor quality information would never be used to change best clinical practice for individual patients. It is unreasonable to propose that ecologic comparisons from a terribly polluted country composed of studies with these many flaws should set USA public health policy.
Because fluoridation opponents were incorrectly labeling the Choi and Grandjean paper “the Harvard Study” and because the meta-analysis has no importance to the scientific evaluation of fluoridation’s safety, Boston based oral public health authority Dr. Myron Allukian, a graduate of the Harvard School of Public Health, requested Harvard formally consider the matter.

The deans of the Harvard Medical School, Dental School and School of Public Health (in which Grandjean hold an adjunct position) clearly stated they believe fluoridation to be safe, beneficial and practical. This is the official Harvard position.

March 22, 2013

Dr. Myron Allukian, Jr.
Immediate Past President, American Association for Community Dental Programs
Associate Clinical Professor, Harvard School of Dental Medicine
Via email: myalluk@aol.com

Dear Dr. Allukian:

As Deans of Harvard Medical School, Harvard School of Dental Medicine and the Harvard School of Public Health, we continue to support community water fluoridation as an effective and safe public health measure for people of all ages.

Numerous reputable studies over the years have consistently demonstrated that community water fluoridation is safe, effective, and practical. Fluoridation has made an enormous impact on improving the oral health of the American people.

Our country is fortunate to have over 204 million Americans living in fluoridated communities and having access to the health and economic benefits of this vital public health measure.

Sincerely,

[Signature]

Jeffrey S. Flier, MD
Dean of the Faculty of Medicine
Caroline Shields Walker Professor of Medicine
Harvard Medical School

[Signature]

R. Bruce Donoff, DMD, MD
Dean and Walter C. Guralnick Distinguished Professor of Oral and Maxillofacial Surgery
Harvard School of Dental Medicine

[Signature]

Julio Frenk, MD, MPH, PhD
Dean of the Faculty, Harvard School of Public Health
T & G Angelopoulos Professor of Public Health and International Development,
Harvard School of Public Health and Harvard Kennedy School
Well funded committees of experts have many times Hood River, OR 97031 reviewed all of the science related to fluoridation and health concerns. Other than the Qin study, which found optimal fluoride associated with better IQ, none have identified any fluoridation effect on the developing brain.

An independent review from an English Health District found no relevance to the meta-analysis and the decision for fluoridation.

Grandjean, the senior author of the meta-analysis published a paper with a Harvard pediatrician on environmental toxins and brain development in The Lancet Neurology. Fluoride is a very minor element; its only literature reference is Grandjean’s prior paper. This paper thus adds nothing to what has been discussed above. It contains nothing new.

In an interview for The Atlantic pediatrician co-author Phillip Landrigan made clear the difference between beneficial low dose fluoride typical of the US and the high doses in China which might be harmful.
The unsupported claim that fluoridation might be a cause of IQ deficits among children, proved critically important to the City Councilors in Hamilton, New Zealand.

The nearby University of Otago then published an analysis of the ongoing Dunedin Multidisciplinary Health and Development Study. These data included IQ testing and water fluoridation status for over 1000 people followed for 38 years.

The Otago researchers well controlled for factors other than fluoridation, such as parents' socioeconomic background and breast feeding. New Zealand has none of the general environmental pollution common in China. .

No loss of IQ because of fluoridation was found.

The authors concluded that the “associations between very high fluoride exposure and low IQ reported in previous studies may have been affected by confounding, particularly by urban or rural status.“