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JOHN'S CORNER:

NEWS FROM THE WONDERFUL WORLD OF SOIL AND PLANTS

by John Ferguson

I often get asked about using biosolids the politically correct name for sewage sludge as a fertilizer. It has the potential to green things up.....but it come at a very high price to our health and the environment. We have known for years about the dangers of pathogens, heavy metals, and pharmaceuticals in the biosolids (or in compost made from biosolids). There is another reason to avoid them as they cause mineral imbalances in the soil. One of the issues is that the repeated use of biosolids leads to an excess of copper in our soils and the symptoms we see in our plants resembles an iron (Fe) deficiency. Hence, if we add iron we make the soil problems worse. Another issue with using biosolids it is high in manganese (Mn). When there is too much manganese in our soil the activity of required enzymes and hormones in plants are reduced. For example many legumes will no longer fix nitrogen into the soil. High levels of manganese prevents plants from absorbing and using calcium (Ca) efficiently and leads to a calcium deficiency in plants. This deficiency in turn, increases the insect and disease problems a gardener will encounter. High levels of manganese also stunts the growth of many plant species like Pines. A third issue is the high levels of zinc (Zn) often found in sewage (131-1,670 ppm). In soils, levels of zinc over 500 ppm are known to prevent plants from absorbing other critical elements which lead to many long term problems. Once the soil has been contaminated by excess elements (or toxins) it is very costly to fix the problems and takes a long time.

Note: There is a book on how the government falsified safety data on sewage sludge and the cover up by a whistle blower David Lewis.

Science For Sale : How the US Government Uses Powerful Corporations and Leading Universities to Support Government Policies, Silence Top Scientists, Jeopardize Our Health, and Protect Corporate Profits, by David Lewis, PhD., Skyhorse Publishing, 2014, ISBN: 978-1-62636-071-6

Note: Biosludged full movie launches Wednesday, Nov. 28th: See trailer 2 here, and prepare to be shocked

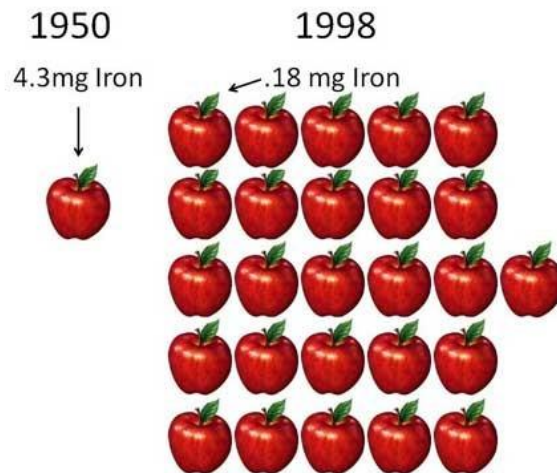


Your world is being deliberately mass poisoned with toxic sewage sludge that's dumped on forests, food crops, city parks and public school grounds. A massive, coordinated cover-up has been in place for years, making sure you never learn the truth about this deliberate environmental poisoning that's spreading toxins everywhere. Two years in the making, the Biosludge film launches this Wednesday, Nov. 28th, at Biosludged.com and BrighteonFilms.com. You can watch the full film for free, and you'll also be able to download the film's video file and post the full video to your own video channels. The full film is closed captioned for the hearing impaired.

Similarly, I often get asked about using poultry manure or fertilizers made from poultry manure. Poultry manure has been used for hundreds of years as a natural fertilizer, however the manure we have today is very different than in the past. Today's poultry manure is often full of arsenic, pharmaceuticals, and salt. Poultry manure is high in zinc (up to 495 ppm) hence repeated usage can quickly lead to zinc toxicity issues listed above. Poultry manure is not a balanced fertilizer and although it may give good results at first, repeated use can lead to problems in the soil.

The zinc issue is another reason to avoid rubber tire mulch as they can contain up to 2% of their mass as zinc. When iron is exposed to excess zinc, it forms the mineral called "Franklinite" a zinc oxide ($ZnFe_2O_4$) which then decrease the availability of both nutrients to plants and microbes. This is one of the mechanisms as to why "rubber tire mulch" is so toxic to plants and the soil.

In this newsletter I have often talked about the extremely low nutrient density of our food supply. The minerals (elements) in our food is one of the reasons they taste good to us. Food without nutrition is flavorless. The graphic below is a good illustration of the declining nutrient density. It took 26 apples in 1998 to give the same nutrition that one apple had in 1950. Since then with the advent of glyphosate herbicides and GMO crops, the decline in nutrients has accelerated. The reasons to grow our own food from fruits and vegetables to herbs is critical to protect our health.



This graphic is from the Dr. Mercola's newsletter, "How to Bring Minerals Back Into the Soil and Food Supply". The full article can be found at

<https://articles.mercola.com/sites/articles/archive/2014/05/25/food-minerals-soil-health.aspx>

A new study in the International Journal of Human Nutrition and Functional Medicine, with thousands of people, has found that eliminating GMO food from our diet, improves 28 different health conditions.