

Glenda Wiles

From: bjhoy@localnet.com
Sent: Thursday, June 13, 2019 2:13 PM
To: Ravalli County Commissioners Office
Cc: bjhoy@localnet.com
Subject: Ravalli County Board of Health Meeting June 12

Dear Ravalli County Board of Health,

Thank you very much for your consideration of the serious health effects and effects on the environment of the Neonicotinoid, Imidacloprid. I would especially like to thank Roger DeHaan for agreeing to write a letter to be sent to Governor Bullock. I hope you will also send the letter to the other government agencies suggested by the wonderful lady behind me, whom I had not previously met.

Regarding the fluoride issue that Katie kept bringing up. There is no relation between the use of fluoride and the beginning of the birth defects that were found on the study WTD in the SD study. This is what I found concerning effects on fetal development and birth defects resulting from fluoride ingestion by the mother during pregnancy.

"Systemic fluoride ingestion interrupts the enamel formation stage of tooth development which for the primary dentition (baby, milk or deciduous teeth) occurs during fetal development or pregnancy as a result of the maternal fluoride intake crossing the placenta.

Disruption of the tooth development was the only birth defect I could find from exposure to fluoride.

There was also no mention of the many other birth defects and premature births we reported on the wildlife as a result of the mother ingesting fluoride and that were shown going up steeply by CDC records as reported in our third study, which focused on glyphosate. Glyphosate and Imidacloprid, as I stated have been found to work synergistically to cause much greater harm and more serious birth defects. Also, they both began being used in ever increasing amounts after 1994. Actually, the big jump in use of Roundup/glyphosate was in 1996. The synergism between the two toxins aspect wasn't addressed by the SD study.

Interestingly, just this week, new tests of breakfast cereals found quite high levels of glyphosate in the cereals most children eat. This is what the testers said: "New round of tests find more children's cereals tainted with Monsanto's cancer-linked weedkiller. In this latest round of laboratory tests, glyphosate, the main ingredient in Bayer-Monsanto's Roundup, was detected in every sample tested. All but four of the 21 products contained glyphosate at levels higher than what EWG scientists recommend for kids." This should

also be of considerable concern to the Board of Health, especially since glyphosate and Imidacloprid have been found to work synergistically to cause more harm than either alone.

With regard to the fluoride issue, it began being used long before the birth defects we reported in our studies were ever observed and reported in the scientific literature. Fluoride began being used in water, etc. in 1945. The specific birth defects found on the SD WTD and on the grazing animals in our studies were not observed at all until spring of 1995, the spring immediately after large amounts of Imidacloprid were used in Ravalli County and in states upwind of Ravalli County in spring and summer of 1994. Thus, I don't see that fluoride could possibly have anything to do with the birth defects shown to be caused by Imidacloprid.

The SD study clearly found that higher levels of Imidacloprid were in the spleen of fawns that had the specific birth defects we reported on deer and other grazing animals in our RC studies (as already stated, those were not the birth defects found to be caused by Fluoride ingestion). Also, higher levels of Imidacloprid were found in the spleens of the study does and fawns that died after being given Imidacloprid deliberately. When they discovered that the control deer not given Imidacloprid also had some Imidacloprid in their spleens when they were killed and tested, they changed the study to adapt to that finding. They tested 375 spleens from wild deer and found that 52% of the wild deer had higher levels of Imidacloprid than the live study deer deliberately given the highest amount. I find this extremely concerning and so should anyone concerned with the health of the environment. The researchers doing the study found it extremely concerning. Scientific American found it extremely concerning, as did multiple other magazines in the U.S. and in other countries.

Thus, I would think that the Board of Health of the county where the studies that the SD study was based on would be very concerned.

Whatever affects large mammals like deer likely affect humans, especially fetuses and newborns.

About 4 years ago, when I asked a dentist who specialized in children if there were children being born with overbite caused by an underdeveloped lower jaw and chin, he said it was a very common birth defect on children now and appeared to be increasing. He was a Missoula dentist. That was the most common birth defect found on the SD study WTD.

Regarding what Katie said about me stating something that was hearsay.

I did paraphrase what Mr. Aune said, but what he said came directly from his email to the Board of Health. His emails were sent to the Board of Health and became public record, thus I believe are acceptable evidence in a court of law and are not considered hearsay. I

will supply those emails to the Board of Health if you want to see them, although you already should have them, since the Board of Health sent them to me.

Again, thank you for your consideration of this very important issue.

All of the affected insects are declining rapidly, as are all the vertebrate species that depend on insects for food. This was called a catastrophe in Europe and an Insect Apocalypse world wide. Imidacloprid also kills spiders, earth worms, aquatic insects, land insects and other invertebrates. Most concerning to the human food supply, it is deadly to pollinators. It has also been found by studies to kill fish, amphibians, reptiles, birds and mammals (large and small). Humans are mammals! Absolutely everyone should be concerned about what Neonicotinoids do, especially the most used one, Imidacloprid.

Thank you again,
Judy

Here are some of the many studies concerning a variety of vertebrates and invertebrates that Imidacloprid harms. It appears to be killing and or maiming nearly everything.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4284370/> An important review of effects on multiple wildlife species including fish, amphibians, reptiles, birds and mammals.

<https://www.nature.com/articles/s41598-018-35129-5>. Effects on mice brains and behavior.

<https://www.nature.com/articles/s41598-017-15446-x>. Effects on migratory ability in songbirds

<https://www.nature.com/articles/s41598-019-42258-y>. Effects on insects.

<https://www.ncbi.nlm.nih.gov/pubmed/30952926> Spider neonicotinoid study.

<https://ucanr.edu/blogs/blogcore/postdetail.cfm?postnum=13134> A general article about the effects of neonicotinoids, including Imidacloprid. This is a very good scientific article.

<https://cen.acs.org/articles/92/web/2014/03/Low-Doses-Controversial-Insecticide-Harm.html>. An article about a study concerning effects of Imidacloprid on insects at extremely low doses.

<https://www.sciencedaily.com/releases/2019/04/190410090336.htm>. An article about another study of neonicotinoid insecticides impairing insects ability to avoid predators. This is the DOI of the study the article is about. DOI: 10.1016/j.neuro.2019.02.012

I hope some of this is of help to you with the letter, Roger. Sorry my email is so long. Your letter can be short and to the point because Imidacloprid kills everything and should be banned immediately for the sake of all children that are being born and that have been born in recent years. If all the insects go extinct, so will all the vertebrates and humans are vertebrates.