

Testimony in support of LD 878
to the Committee on Energy, Utilities and Technology
March 24, 2025

Senator Lawrence, Representative Sachs, and distinguished members of the Committee:

My name is Sarah Johnson and I am a resident of Sanford.

I am writing in support of LD 878, Resolve, to Study the Effects of 5G and Other Non-ionizing Radio Frequency Radiation-emitting Technology on Bird, Bee, Insect and Other Wildlife Populations and the Effects of Long-term Exposure on Children.

I have been a software developer and support specialist in Aerospace, process and tool manufacturing for over 40 years. I have witnessed short and long term adverse effects of the advances of technology all around us from ergonomic issues to eyesight impact as monitors changed and of course the addictive characteristics of some software apps. Technology has always progressed much faster than we can keep up with understanding its adverse effects, and the rollout of 5G is no different. However there are vast amounts of data from scientific studies to review, and since I think we are all fans of food, I will cite just one here on the impact to bees.

[From Frontiers in Public Health, Nov 2022:](#) Some RFR effects seen in bees include: significant inhibitory effects on sensory olfactory excitability and short term memory impairment after 24-h WiFi-router exposure ([116](#)); induced worker piping—the sound that initiates swarming behavior in colonies, or as a warning/distress signal—that demonstrated 900-MHz GSM is a stressor to bees ([117](#)); reduced motor activity and changes in biomolecules in the body ([118](#)); reduction of worker bees and reduced egg laying by queens exposed to cell phone radiation ([119](#)); reduced hatching and altered pupal development after cell phone radiation exposure ([120](#)); decrease in comb weight and delayed return or hive abandonment after exposure to DECT phone radiation ([121](#), [122](#));

Sadly for bees, they are our “canaries in a coal mine” in that we will decimate them before we understand the adverse effects on ourselves. I would hope that we care enough about all living creatures, ourselves included, to initiate this study.

I hope you will support this legislation.

Thank you for your time and consideration.

Sarah Johnson

Sanford, Maine.

[https://pmc.ncbi.nlm.nih.gov/articles/PMC9732734/#:~:text=There%20is%20enough%20evidence%20to%20indicate%20we,\(EMF\)%20from%200%20Hz%20to%20300%20GHz.&text=All%20insects%20indicated%20an%20increase%20in%20frequency%2Ddependent,compared%20to%20absorbed%20RFR%20below%206%20GHz.](https://pmc.ncbi.nlm.nih.gov/articles/PMC9732734/#:~:text=There%20is%20enough%20evidence%20to%20indicate%20we,(EMF)%20from%200%20Hz%20to%20300%20GHz.&text=All%20insects%20indicated%20an%20increase%20in%20frequency%2Ddependent,compared%20to%20absorbed%20RFR%20below%206%20GHz.)