

## **RF Radiation From Wireless Technology Kills and Damages Trees** **By Catherine Kleiber**

Trees are being killed and damaged across the U.S. and world-wide even without full-scale implementation of 5G. RF radiation is being implicated as the cause. Several studies show the very serious effects that RF radiation has on the health of trees. Trees are essential to the welfare of the global environment and the continuation of the human race. Decimation of the Amazon rainforest by direct human actions has been oft-cited as endangering the global environment, the FCC should not be moving forward with implementing a technology, 5G wireless technology, that will hasten the RF caused death of our urban and rural forests. Please read the following papers to see the toll RF is already taking on trees. We cannot afford additional forest die-off. Large mature trees are being seriously damaged and killed, this damage will take 50 years or more to repair.

- Radiofrequency radiation injures trees around mobile phone base stations [https://www.researchgate.net/publication/306435017\\_Radiofrequency\\_radiation\\_injures\\_trees\\_around\\_mobile\\_phone\\_base\\_stations](https://www.researchgate.net/publication/306435017_Radiofrequency_radiation_injures_trees_around_mobile_phone_base_stations)
- Adverse Influence of Radio Frequency Background on Trembling Aspen Seedlings: Preliminary Observations <https://www.hindawi.com/journals/ijfr/2010/836278/>
- Tree damage in the vicinity of mobile phone base stations <http://kompetenzinitiative.net/KIT/wp-content/uploads/2016/06/Tree-damages-in-the-vicinity-of-mobile-phone-base-stations.pdf>
- The trees make it easy to recognize the effects of RF-EMF. Examples of tree damage: <http://kompetenzinitiative.net/KIT/wp-content/uploads/2016/09/Trees-in-Bamberg-and-Hallstadt-Documentation-2006-2016.pdf>

The damage to trees is not theoretical. We are seeing it on our farm now. We have seen it in the city for years, but now we are seeing it in the country as well, on a widespread basis.



July 24, 2016  
Note thinness in tree on right and bare spot developing between trees (both cottonwoods)



September 12, 2016  
More leaves lost. No sign of healthy fall leaf color so fall is not the



August 9, 2016  
Damage progressing quickly



July 24, 2016

These cottonwoods trees began exhibiting damage similar to the trees above in 2015. Most of them greened up this spring, then had the leaves die and drop. Two still retain leaves low down. Others are completely dead.

As you can see the damage to trees is progressing quickly to death. Balimori discusses the fact that "*White and black poplars (Populus sp.) and willows (Salix sp.) are more sensitive. There may be a special sensitivity of this family exists or it could be due to their ecological characteristics forcing them to live near water, and thus electric conductivity.*" Certainly the trees that are worst off in our area are willows and cottonwoods and they are growing in areas that are wet, but I have seen trees of all types exhibiting damage. Please think of the future. We cannot live without a healthy tree population. We rely on them for the very oxygen we breathe. **No technology is worth endangering something as essential as our source of oxygen.**

September 18, 2016  
Notice uneven leaf drop, unhealthy green, and absence of fall color.  
Characteristic of RF damage



Notice necrotic lesions and off color characteristic of RF leaf damage. No normal fall color present, despite on-going leaf drop.



Note the small damaged leaves across the top of the tree. Trees of all different species around our yard are demonstrating this damage. Also mentioned in the aforementioned papers. We own no transmitters so all RF from outside sources.

Lilac showing marked one sided damage. Signal appears to be coming from a WiFi tower on a hill about a mile away.



**Green lilac nearly touching green side of affected lilac. The bases are only 8 ft apart.  
0.6 microwatts/m<sup>2</sup> max  
no audible or visible spikes in over 5 minutes**



**Green side of lilac  
2.8 microwatts/m<sup>2</sup> max  
only periodic audible or visible spikes**

**Bare side of lilac  
83.5 microwatts/m<sup>2</sup> max  
audible and visible spikes every 9 seconds**





39 microwatts/m<sup>2</sup> max  
Bare spot pointing S/SW  
Line of sight to cell tower  
6 miles away

10 microwatts/m<sup>2</sup> max  
Measured near bottom of  
bare spot which points N

2.8 microwatts/m<sup>2</sup> max  
In first whorl where still has needles