

With the addition of 5G wireless, the array of currently used and planned, harmful micro-wavelengths and modulation patterns to be deployed in every public and private space, 24-7-365-forever, is staggering:

- **5G: 600 MHz = cm microwaves of ~20 inches** (“cm” = centimeter)
- **4G: 700 MHz = cm microwaves of ~17 inches**
- **3G/4G: 800 MHz = cm microwaves of ~15 inches**
- **3G/4G: 900 MHz = cm microwaves of ~13 inches**
- **3G/4G: 1800 MHz = cm microwaves of ~7 inches**
- **3G/4G: 2100 MHz = cm microwaves of ~6 inches**
- **Wi-Fi: 2450 MHz = cm microwaves of ~5 inches**
- **5G: 3100 MHz to 3550 MHz = cm microwaves of ~3.8 to 3.3 inches**
- **5G: 3550 MHz to 3700 MHz = cm microwaves of ~3.3 to 3.2 inches**
- **5G: 3700 MHz to 4200 MHz = cm microwaves of ~3.2 to 2.8 inches**
- **5G: 4200 to 4900 MHz = cm microwaves of ~2.8 to 2.4 inches**
- **Wi-Fi: 5800 MHz = cm microwaves of ~2 inches**
- **5G: 24,250 to 24,450 MHz = mm microwaves of ~0.5 of an inch**
- **5G: 25,050 to 25,250 MHz = mm microwaves of ~0.5 of an inch**
- **5G: 25,250 to 27,500 MHz = mm microwaves of ~0.4 of an inch**
- **5G: 27,500 to 29,500 MHz = mm microwaves of ~0.4 of an inch**
- **5G: 31,800 to 33,400 MHz = mm microwaves of ~0.4 of an inch**
- **5G: 37,000 to 40,000 MHz = mm microwaves of ~0.3 of an inch**
- **5G: 42,000 to 42,500 MHz = mm microwaves of ~0.3 of an inch**
- **5G: 64,000 to 71,000 MHz = mm microwaves of ~0.2 of an inch**
- **5G: 71,000 to 76,000 MHz = mm microwaves of ~0.2 of an inch**
- **5G: 81,000 to 86,000 MHz = mm microwaves of ~0.1 of an inch**

Microwave radiation bio-effects increase synergistically, not merely additively, with the markedly increased complexity of simultaneous frequency deployments for 4G/5G Distributed Antenna System (DAS).

5G would deploy more bandwidth and therefore data-per-second than ever deployed in the entirety of human history – *combined* – to produce more adverse effects than ever previously manifested by wireless systems. Worse, 5G microwave radiation is to be concentrated semi-directionally into a 15-degree arc, which deployment approaches maser-like, direct-energy weaponry (DEW). A maser is a microwave taser or laser.

As a wavelength approaches body-part size, its absorption increases exponentially, for which reason microwaves, waves in the “size of life”, have been known for decades as the most harmful of radiofrequencies. When a wavelength approximates a body dimension, resonance is achieved: the body part or whole body effectively becomes an antenna. The ~20” wave penetrates deeply into human and animal bodies, maximizing harm in babies and small children. The ~2” – 4” waves target the primary organs: brain, heart, lungs, liver, thyroid, thymus, kidneys, genitalia, in humans and larger animals. The millimeter (mm) waves target the most critical organs of perception – eyes and ears – in addition to the body’s largest organ: the skin. Resonating at the lengths of insect antennas, these mm wavelengths ensure the extermination of pollinating insects such as bees and butterflies within a year of deployment, and birds and all other wildlife thereafter. Farm animals are immediately harmed by 4G/5G DAS radiation operations, which must, wherever deployed, destroy agriculture.