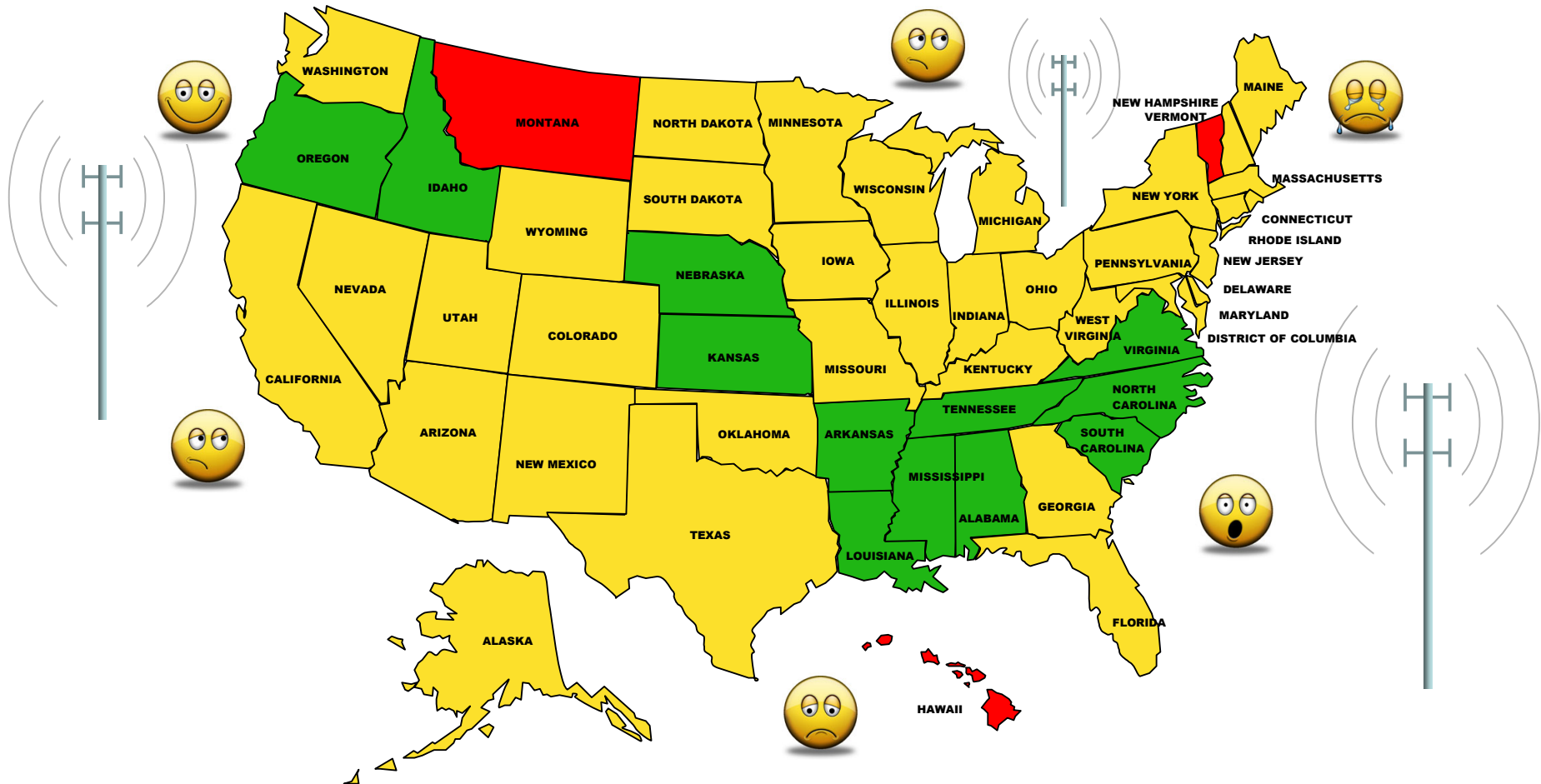


# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*

## Can you BRAG about your school?

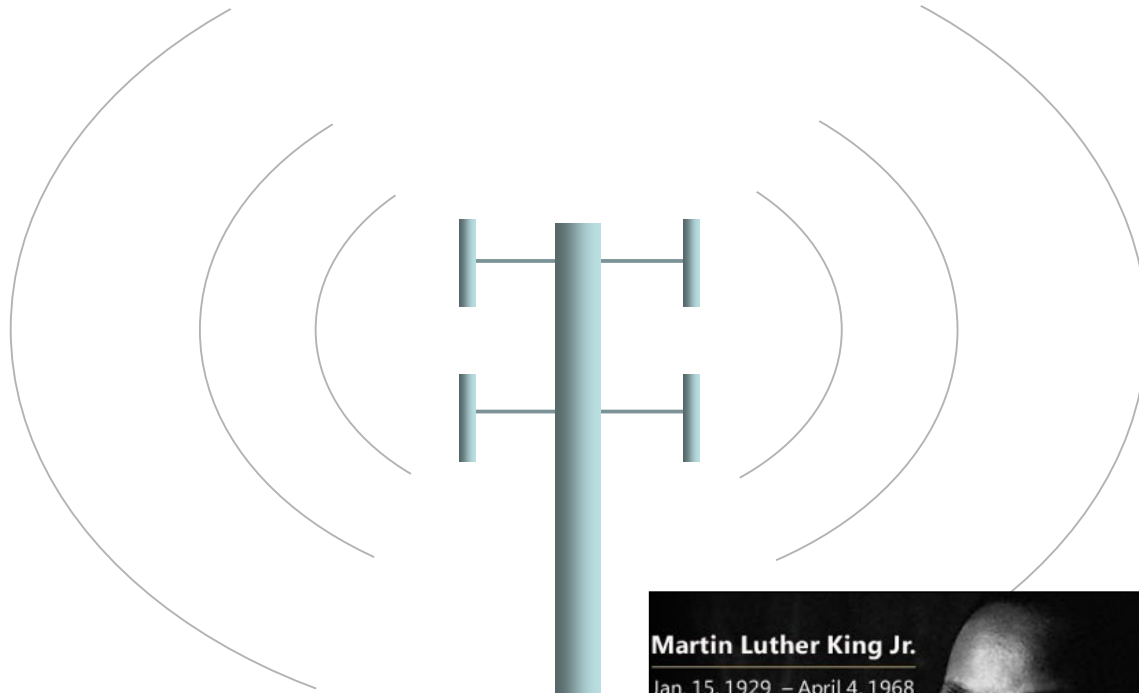
*How many antennas are near your school and is this something to BRAG about?*





# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*



*Our lives begin to end  
the day we become silent  
about things that matter.*

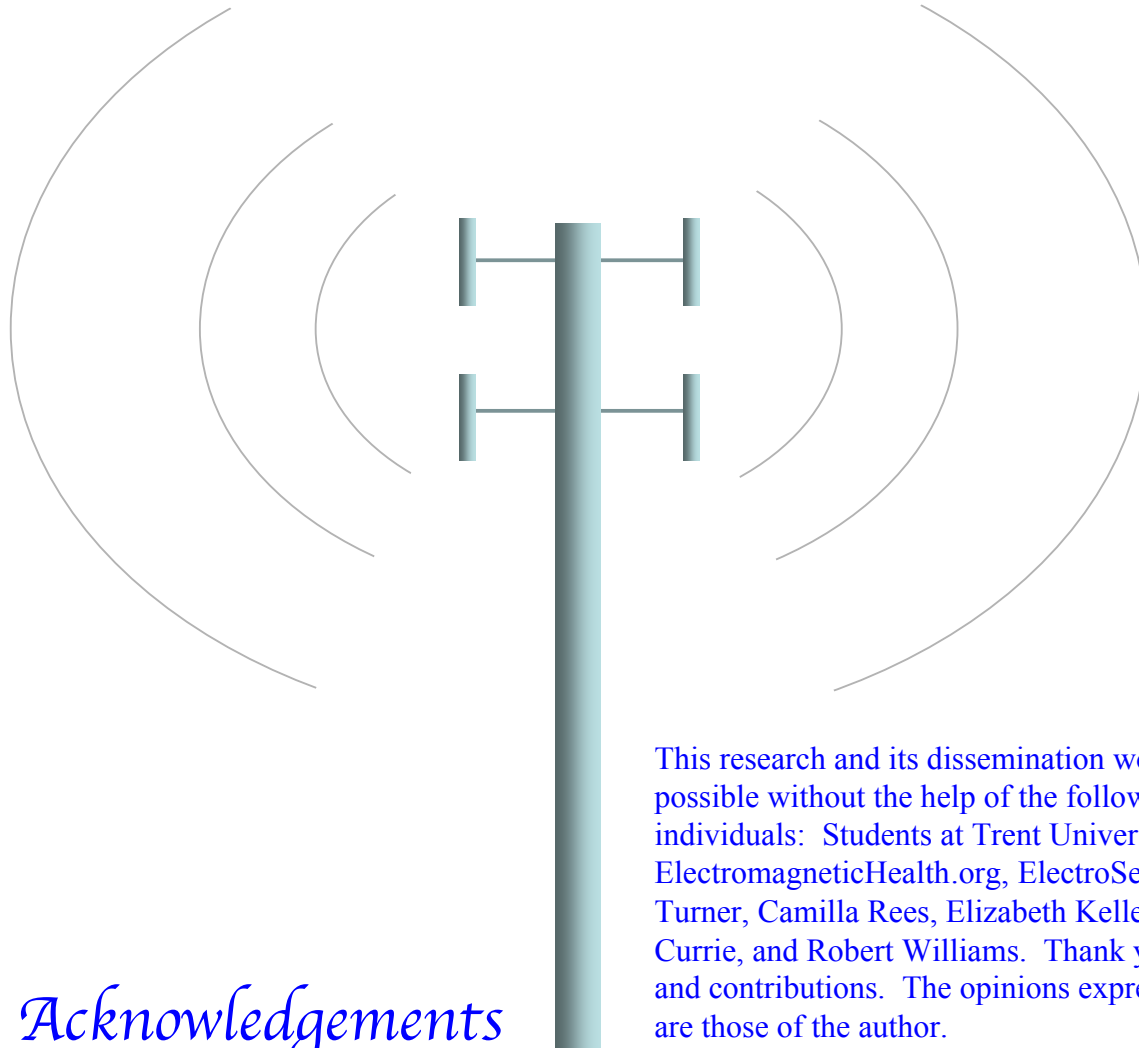


*Martin Luther King, Jr.*



# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*



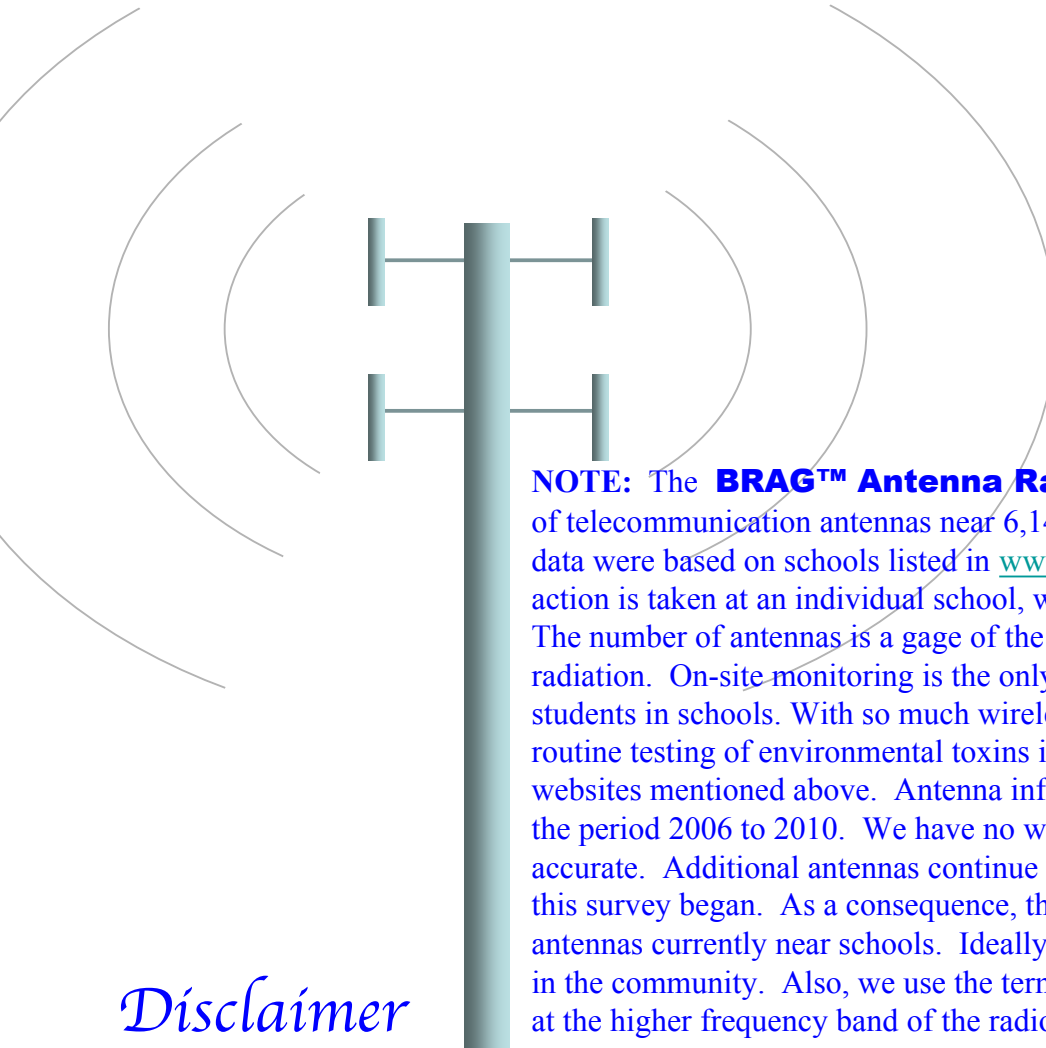
This research and its dissemination would not have been possible without the help of the following organizations and individuals: Students at Trent University, Citizens for Health, ElectromagneticHealth.org, ElectroSensitiveSociety.com, Jim Turner, Camilla Rees, Elizabeth Kelley, Barbara Payne, Leigh Currie, and Robert Williams. Thank you all for your support and contributions. The opinions expressed in this document are those of the author.

## *Acknowledgements*



# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols



**NOTE:** The **BRAG™ Antenna Ranking of Schools** documents the proximity and density of telecommunication antennas near 6,140 schools across the U.S. during the period 2006-2010. The data were based on schools listed in [www.50states.com](http://www.50states.com) and [www.greatschools.com](http://www.greatschools.com). Before any action is taken at an individual school, we recommend that the antenna data be updated and verified. The number of antennas is a gage of the *potential exposure* to radio frequency and microwave radiation. On-site monitoring is the only way to know the *actual exposure* to microwave radiation of students in schools. With so much wireless technology, electromagnetic exposure needs to be part of routine testing of environmental toxins in schools. Note, we noticed discrepancies in the two school websites mentioned above. Antenna information was based on data at [www.antenna\\_search.com](http://www.antenna_search.com) for the period 2006 to 2010. We have no way to verify if the data tabulated in Antenna Search are accurate. Additional antennas continue to be added and some antennas may have been removed since this survey began. As a consequence, the number of antennas tabulated in this survey may differ from antennas currently near schools. Ideally, the data should be updated annually for each school by those in the community. Also, we use the term “microwave radiation” throughout this document, which is at the higher frequency band of the radio frequency electromagnetic spectrum ([see page 153](#)).



*Disclaimer*



# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*

## Table of Contents

Part One:	Executive Summary . . . page 6	
Part Two:	Background . . . page 12	
Part Three:	Method or What we did . . . page 31	
Part Four:	Results . . . page 35	
Part Five:	BRAG™ Recommendations for Schools . . . page 148	
Part Six:	Sources & Links . . . page 164	

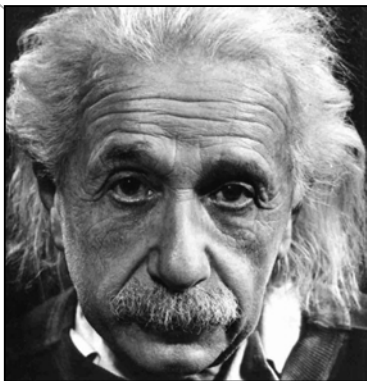


# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*

## Part One

### Executive Summary



*Albert Einstein*

*Everything should be made as simple as possible, but not simpler.*



# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*



## Executive Summary

## Rationale & Introduction

The invention of the mobile phone and the wireless internet has revolutionized the way many of us communicate and the demand for this technology seems inexhaustible. Our love-affair with wireless technology however, has its dark side. Each time we make a phone call our cell phone communicates with nearby antennas by emitting microwave radiation. With approximately 270 million cell phone users in the United States the amount of radiation, to which we are all exposed, is hundreds of thousands of times higher than background levels.

**The question is . . . how much of this radiation can the human body tolerate before it becomes ill and who among us is likely to be the most sensitive?**

While there is controversy about how much of this radiation is "safe" there is no disagreement that children are the most sensitive to any form of environmental pollutant.

Despite knowing this, antennas are still erected on or near school property and students and their teachers are exposed to this radiation because microwave radiation penetrates buildings. Indeed a growing number of schools are installing WiFi for their computers, which exposes students and teachers to yet another source of microwave radiation.

School boards, strapped for funding, readily agree to decade-long contracts that bring in thousands of dollars of additional revenue by renting space to the wireless providers for their towers and antennas.



# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*

## Executive Summary

## What We Did



Government officials tell us microwave radiation is safe if it doesn't heat tissue, but scientific studies, going back decades, show adverse biological and health effects for those exposed to levels well below federal guidelines, which are based exclusively on this thermal effect. Guidelines don't change overnight, especially when science to study the health effects of this technology is not funded and when vested commercial interest groups lobby the government to accelerate the process of providing more wireless infrastructure. We are literally microwaving the planet.

The purpose of this report is to raise awareness concerning the number of antennas near schools so we can begin the dialogue of how much microwave radiation is too much.

We asked a simple question . . . **"How many antennas are near schools in the United States?"** We limited our inquiry to schools in the 50 State Capitols and to Washington, D.C.

Information on the number of antennas near a particular address is available at the Antenna Search website ([www.antennasearch.com](http://www.antennasearch.com)). We based our comparisons on three different distances as follows: the closest antenna, the number of antennas within 0.25 miles (400 meters, which the science shows is the critical distance for adult exposure), and the number of antennas within 0.6 miles (1 km). We designed a special metric - the BRAG™ Color Code and Grade - to facilitate communication of the results. We documented antennas near 6,140 schools attended by 2.3 million students in 51 U.S. cities.





# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Executive Summary

## Schools & Students



### Good News:

2,061 schools (35%) are classified as BRAG™ **GREEN** (fewest nearby antennas) and these schools are attended by 849,000 students (37%). These schools are likely to have the lowest exposure to microwave radiation coming from nearby antennas.

### Caution:

3,067 schools (51%) with 1.1 million students (50%) attend BRAG™ **AMBER** schools and these schools are likely to get worse if the construction of antennas continues at the present rate.

### Bad News:

1,012 schools (17%) with 299,000 students (13%) attend BRAG™ **RED** or **BLACK** schools. These schools may have the highest levels of microwave radiation coming from neighborhood antennas.

### Really Bad News:

240 schools have more than 20 antennas within a quarter mile radius, 95 schools have more than 50 antennas, and 36 schools have more than 100 antennas within the same distance. The worst school in this survey has 304 antennas within 0.25 miles.



# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Executive Summary

## State Capitols



### Good News:

The **5 BEST** state capitols are **Richmond, Columbia, Nashville, Little Rock, and Jackson**. These cities have composite grades above 80% and have predominantly **GREEN** schools.

### Caution:

Most of the state capitols are given a BRAG™ **AMBER** color code, which represents the majority of the schools in that city. This can change quickly if more antennas are erected near schools, leading to higher exposure of students to microwave radiation.

### Bad News:

The **5 WORST** capitols are **Carson City, Hartford, Washington, Honolulu, and Boston**. These cities have composite grades below 60% and had predominantly **AMBER** or **RED** schools.

### Really Bad News:

In **30 state capitols** there are more than **100 antennas** within a 0.6 mile radius of schools. The worst offenders are **Boston (with 749 antennas within 0.6 miles), Atlanta (679 antennas), Denver (581 antennas), and Indianapolis (459 antennas)**.



# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Executive Summary The BRAG™ Report Recommends that . . .



1. schools, school districts, all municipalities and states call upon the FCC for a ruling that requires a 1,500 feet setback for any/all wireless infrastructure near schools. This is the distance at which the scientific literature indicates acute symptoms of electrohypersensitivity are not noticeable and background levels of radiation return to normal from most cellular infrastructure. *Note this does not apply to WiMax, a high-powered series of antennas being installed across the U.S., for which the return to background level distance is likely to be much greater than 1,500 feet.* Symptoms of electrohypersensitivity have been demonstrated at exposures that are a fraction (0.04%) of U.S. exposure guidelines, in part because the guidelines themselves only take into consideration a 30-minute exposure, not chronic exposures. Until guidelines are formally changed to reflect the current science, a policy of "prudent avoidance" would justify setbacks for antenna infrastructures near schools.
2. radio frequency radiation in school environments be monitored and documented on a regular basis, and especially after antennas are erected nearby or when new wireless technology is introduced into the school environment.
3. if levels of exposure to radiofrequency fields, magnetic fields or dirty electricity exceed the BRAG™ recommendations for these frequencies, that steps be taken to reduce these exposures on school property.
4. health complaints of electrohypersensitivity reported by students and staff be taken seriously, that they be documented, and that appropriate steps be taken in a timely fashion to address the complaint. This involves education of teachers and nursing staff.

Note: those who want to conduct a BRAG™ antenna search for their school, visit [www.magdahavas.com](http://www.magdahavas.com) for "how to" instructions..

## Part Two

### Background

- ✓ A Grim Fairy Tale . . .
- ✓ Up Front . . .
- ✓ Scientific Controversy . . .
- ✓ Precautionary Approach . . .
- ✓ FCC Consumer Facts . . .
- ✓ Scientific & Medical Concerns about Electrosmog . . .
- ✓ Introduction . . .



*John Kenneth Galbraith*

*The conventional view serves to protect us from the painful job of thinking.*

## A Grim Fairy Tale

### Welcome to Planet Irth . . .

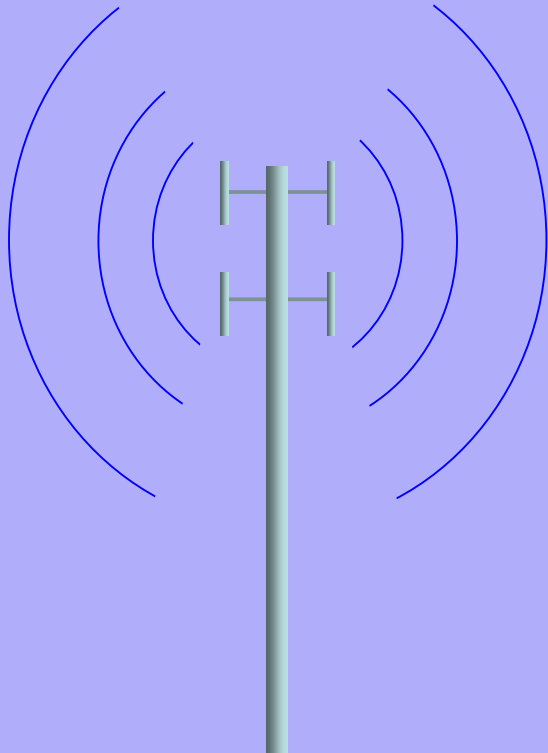
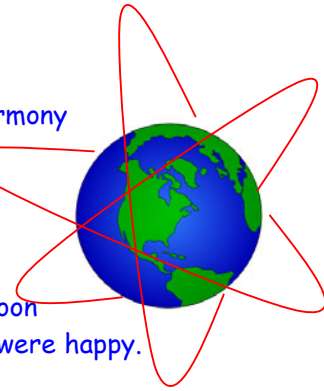
Once upon a time, many, many years ago, creatures on planet Irth lived in harmony. Life was good. Slowly things began to change and it was called progress and almost everyone was excited.

Inventors discovered how to send information through the air without wires. Initially it was sound, click-click-click, and then words and then pictures and soon everyone on planet Irth was connected all the time. Life was good. Irthlings were happy.

Then something unexpected happened, a few creatures on planet Irth began to get ill. They had headaches and were tired. Some couldn't sleep at night. Others had difficulty thinking and remembering. Some became depressed or anxious. Others were nauseous or dizzy. They called themselves "Sensitives". They were an evolved race of beings who had come to warn Irthlings about 'electrosmogitis', a disease you get when you live in an electrosmog community.

It seems that the inventions that allowed Irthlings to communicate used antennas to send out invisible rays that were making Sensitives ill. The Sensitives tried to warn the Irthlings but no one listened. Irthlings enjoyed their toys and didn't want to give them up. It was easier to think that "Sensitives" were imagining their problems. Sensitives were ignored by their families and friends and by their doctors. Some of them were unable to live in cities and moved to the country but the antennas-that generated these invisible rays-followed them.

Little did the Irthlings know that those antennas on hotels, on office and apartment buildings, on fire halls, on school property, at the end of their street and even in church steeples gave off invisible rays of light that entered their homes and flowed in and around their bodies. These invisible rays were making them sick. More and more Irthlings developed cancer, and diabetes, and multiple sclerosis. Some had difficulty reproducing and, when they were successful, their children had behavioral problems that they treated with drugs. Some of these children died of cancer . . . of the blood and the brain . . . and parents were unhappy. But still, no one paid attention to the Sensitives.

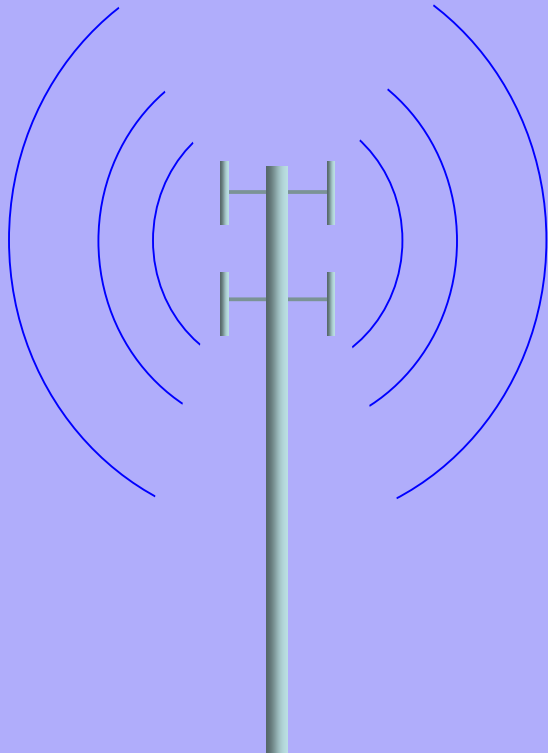


# BRAG™ Antenna Ranking of Schools

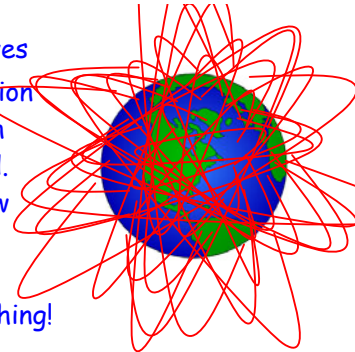
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

microwaving our planet

## A Grim Fairy Tale ... continued



Then along came some scientists and doctors who began to listen to Sensitives and they learned all sorts of things. When they tried to share this information with their colleagues or with the medical profession or with the Global Health Organization (GHO), they were laughed at. Some gave up but a few persisted. They did research, much of it unfunded. They published papers that very few people read. They alerted the media but the media wanted to give 'balanced' reporting, such as "... some say it is harmful but others say it is safe ..." and this just confused everyone. Can't those darned scientists agree on anything!



In the meantime, schools began to install wireless computer networks and children, of all ages, had their own wireless phone and many used them all the time. Homes also had wireless computers and smart meters and cordless phones and wireless games and special TVs and lights that also produced these invisible rays, and wireless alarm systems to protect all this expensive equipment.

Then the media began to report stories, such as "... three children in one kindergarten die of leukemia, many others sick ... authorities deny this is a cancer cluster related to nearby antennas"; "... sharp increases in diabetes, autism, attention deficient disorder have experts baffled"; "... sick building syndrome, blamed for allergies and asthma, may be linked to dirty electricity". Some people were overheard saying, "These are the same symptoms Sensitives are warning us about. Perhaps we should listen to them."

Parents, concerned about the health of their children and these invisible rays, asked schools to remove WiFi antennas in schools and not to allow antennas on or near school property. But they were laughed at and shunned as anti-progressive technophobes who want to return to the "dark" ages.

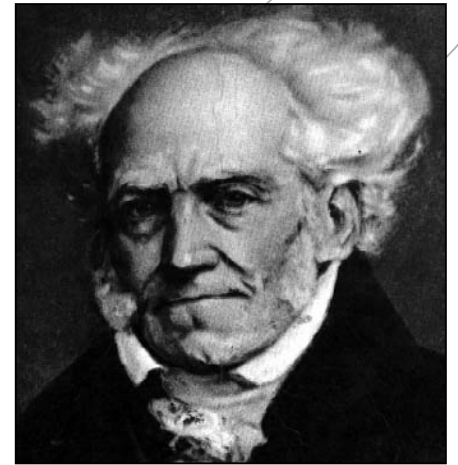
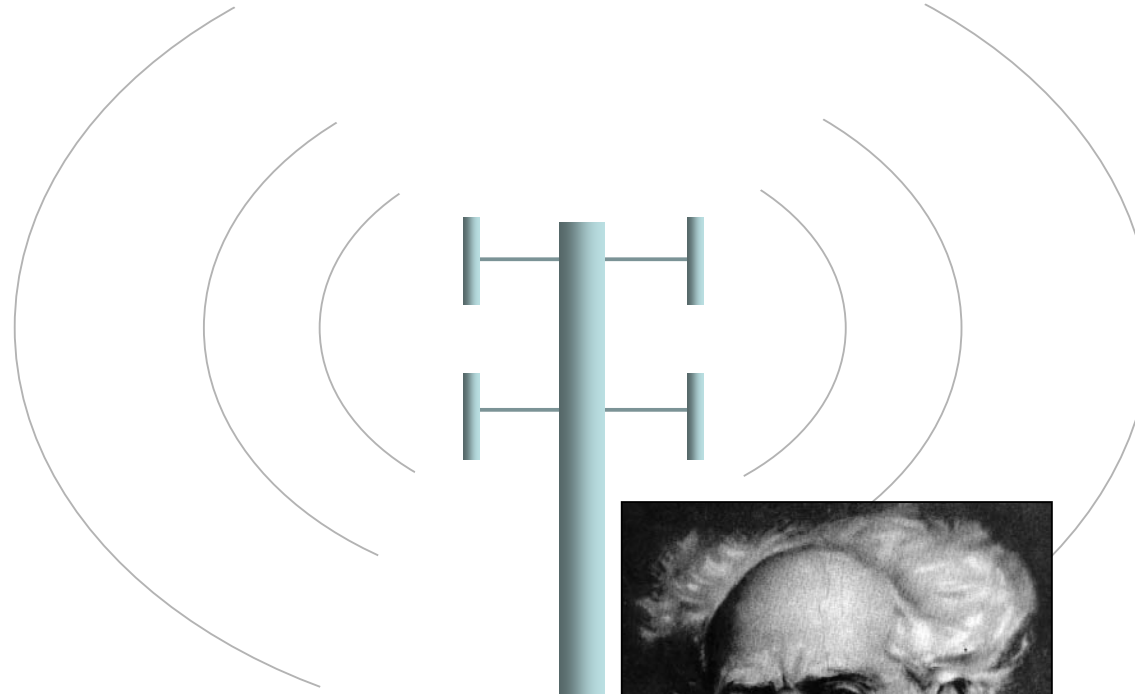
But ... what if the Sensitives are right about electrosmogitis? After all, Irthlings are beings of light and perhaps these invisible rays of light are affecting them. Shouldn't they ... we ... at least listen?



# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

Up Front



*All truth passes through three stages.  
First, it is ridiculed.  
Second, it is violently opposed.  
Third, it is accepted as being self-evident.*

*Arthur Schopenhauer*



# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*

## Scientific Controversy

The international scientific community has not come to a "consensus" on the health effects of electromagnetic energy at the frequencies mentioned in this document. International and national agencies state that the scientific evidence showing harm is "inconsistent and inconclusive" and hence there is no move to change guidelines.

I disagree.

While there is much we have to learn about the harmful (and beneficial) effects of electromagnetic energies and especially about the mechanisms involved and the specific frequencies, intensities, and exposure periods that are biologically important, we have ample evidence indicating that electromagnetic exposure at levels well below present guidelines in North America are biologically active and can have adverse health effects. The threats are serious and the damage can be irreversible.

In September 2009, at the United States Senate Hearing on Cell Phones, experts from around the world stated the same thing . . . health effects associated with cell phone use occur below federal guidelines.

We can wait for the science or we can invoke the "Precautionary Approach" as outlined by the 1992 Rio Declaration on Environment and Development.





# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*

## Precautionary Approach

In order to protect the environment, the precautionary approach shall be widely applied by States according to their capabilities. Where there are threats of serious or irreversible damage, lack of full scientific certainty shall not be used as a reason for postponing cost-effective measures to prevent environmental degradation.

Rio Declaration on Environment & Development, Principle 15, 1992

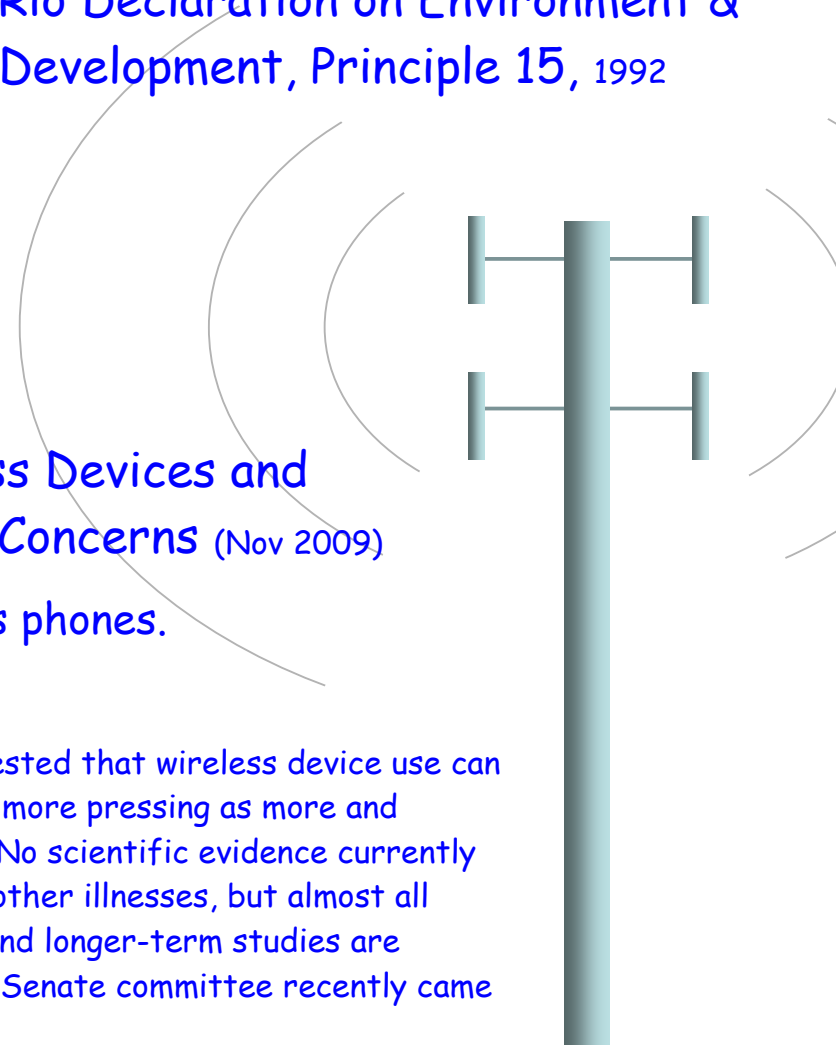
## FCC Consumer Facts

Wireless Devices and Health Concerns (Nov 2009)

FCC recommends precautionary steps for use of cells phones.

[www.fcc.gov/cgb/consumerfacts/mobilephone.html](http://www.fcc.gov/cgb/consumerfacts/mobilephone.html)

"Recent reports by some health and safety interest groups have suggested that wireless device use can be linked to cancer and other illnesses. These questions have become more pressing as more and younger people are using the devices, and for longer periods of time. No scientific evidence currently establishes a definite link between wireless device use and cancer or other illnesses, but almost all parties debating the risks of using wireless devices agree that more and longer-term studies are needed. After listening to several expert witnesses, a United States Senate committee recently came to the same conclusion."



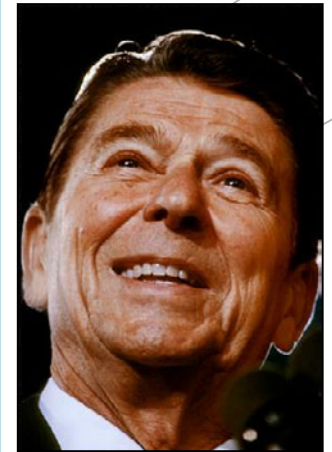
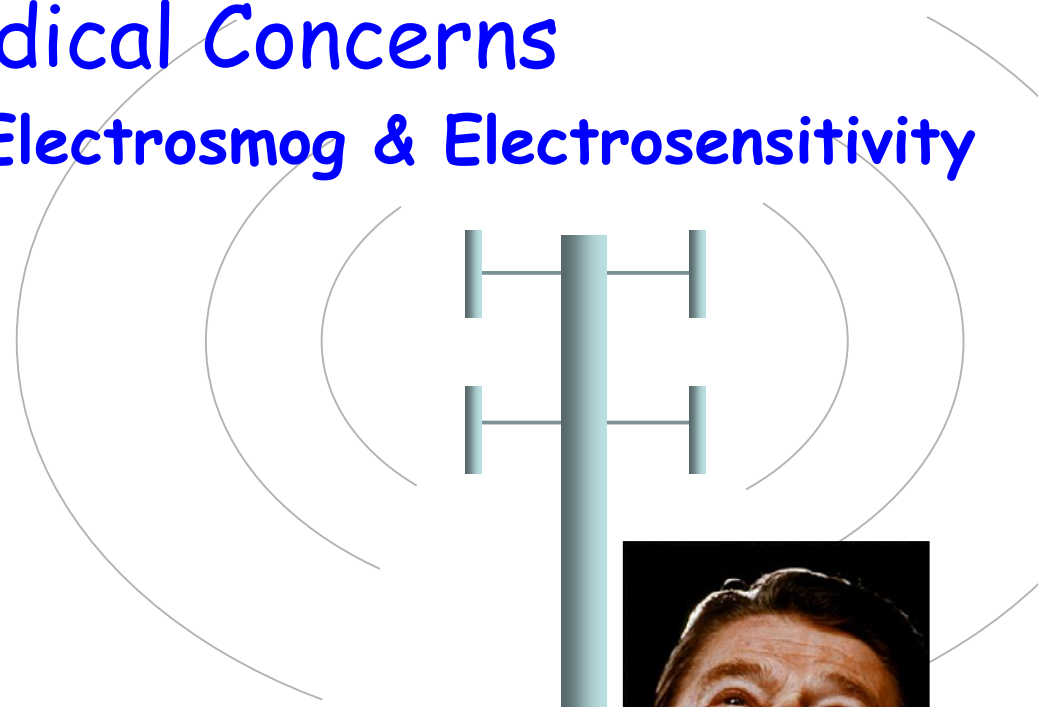


# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*

Scientific  
That can't be ignored!

& Medical Concerns  
about Electromog & Electrosensitivity



*Facts are stubborn things.*

*Ronald Reagan*



# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

Scientific & Medical Concerns  
That can't be ignored!

## Resolutions and Appeals



- 2000: Salzburg Resolution, Austria.** Scientists recommend 0.1 microW/cm<sup>2</sup> for radio frequency radiation exposure [[www.landsbg.gv.at/celltower](http://www.landsbg.gv.at/celltower)]. Guideline in U.S. is 1000 microW/cm<sup>2</sup>. No long-term guideline exists in the U.S.
- 2002: Catania Resolution, Italy.** Scientists recognize adverse health effects of EMF at levels below international guidelines. [[www.emrpolicy.org/faq/catania.pdf](http://www.emrpolicy.org/faq/catania.pdf)]
- 2002: Freiburger Appeal, Germany.** Physicians request tougher guidelines for radio frequency exposure, endorsed by hundreds of healthcare practitioners. [[www.mastsanity.org/doctors-appeals.html](http://www.mastsanity.org/doctors-appeals.html)]. Read quote from this appeal on next page.
- 2004: World Health Organization, Workshop on ElectroSensitivity, Czech Republic, Oct 2004.** Scientists recognize electrohypersensitivity and propose calling it "idiopathic syndrome", which means "no known cause".
- 2005: Irish Doctors' Environmental Association (IDEA), Ireland.** Doctors recognize electrohypersensitivity (EHS) is increasing and request advice from government on how to treat EHS [[www.ideaireland.org](http://www.ideaireland.org)].
- 2005: Helsinki Appeal, Finland.** Call for new safety standards, reject International Commission on Non-Ionizing Radiation Protection (ICNIRP) guidelines. [[www.emrpolicy.org/headlines/helsinki\\_appeal\\_05.pdf](http://www.emrpolicy.org/headlines/helsinki_appeal_05.pdf)]



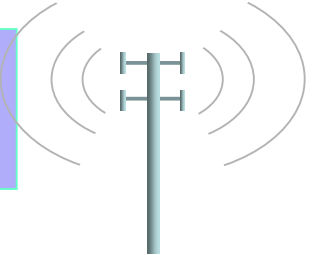
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

Scientific & Medical  
Concerns

That can't be ignored!

## Resolutions and Appeals cont'd



- 2006: Benevento Resolution, Italy.** Scientists recognize adverse health effects, recommend precautionary principle, identify funding biased studies, recognize need for wireless-free zones [[www.icems.eu](http://www.icems.eu)]-International Commission for Electromagnetic Safety.
- 2007: BioInitiative Report, USA.** Reviewed 2000 studies showing biological effects of ELF and RF radiation and calling for biologically based exposure guidelines. [[www.bioinitiative.org](http://www.bioinitiative.org)]
- 2008: Venice Appeal, Italy.** Scientists recognize biological effects at non-thermal levels, that standards are inadequate, that electro-sensitivity exists and that there is a need to research mechanisms. [[www.icems.eu/resolution.htm](http://www.icems.eu/resolution.htm)]
- 2009: Porto Alegre Resolution, Brazil.** Scientists and doctors recognize electrohypersensitivity and are concerned that exposure to electromagnetic fields may increase the risk of cancer and chronic diseases; that exposure levels established by international agencies (IEEE, ICNIRP, ICES) are obsolete; and that wireless technology places at risk the health of children, teens, pregnant women and others who are vulnerable.
- 2009: CellPhones and Brain Tumors: 15 Reasons for Concern, Science Spin and the Truth Behind Interphone.** Call for precautionary action endorsed by 40 leading international scientists.



# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

Scientific & Medical Concerns  
That can't be ignored!

## What German Doctors have to say (Freiburger Appeal, 2002)



*"Our therapeutic efforts to restore health are becoming increasingly less effective: the unimpeded and continuous penetration of radiation into living and working areas . . . causes uninterrupted stress and prevents the patient's thorough recovery.*

*In the face of this disquieting development, we feel obliged to inform the public of our observations . . .*

*What we experience in the daily reality of our medical practice is anything but hypothetical! We see the **rising number of chronically sick patients** also as the result of an **irresponsible "safety limits policy"**, which fails to take the protection of the public . . . as its criteria for action. Instead, it submits to the dictates of a **technology already long recognized as dangerous**. For us, this is the beginning of a very serious development through which the **health of many people is being threatened**.*

*We will no longer be made to wait upon further unreal research results - which in our experience are often **influenced by the communications industry**, while **evidential studies go on being ignored**. We find it to be of urgent necessity that we act now!*

*Above all, we are, as doctors, the advocates for our patients. In the interest of all those concerned, whose basic right to life and freedom from bodily harm is currently being put at stake, **we appeal to those in the spheres of politics and public health.**"*

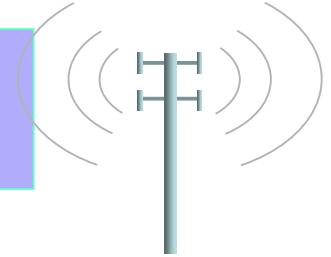


# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

Scientific & Medical Concerns  
That can't be ignored!

ElectroHyperSensitivity (EHS)  
Acknowledged by WHO



The World Health Organization (WHO, 2004) defines Electrohypersensitivity as . . .

" . . . a phenomenon where individuals experience **adverse health effects** while using or being in the vicinity of devices emanating **electric, magnetic, or electromagnetic fields.**"

" . . . *EHS is a **real** and sometimes a **debilitating** problem for the affected persons . . . Their exposures are generally several orders of magnitude **under** the limits in **internationally accepted standards.***"

The World Health Organization (WHO, 2006)

"The WHO recommends that people reporting sensitivities receive a comprehensive health evaluation. . . . Some studies suggest that certain physiological responses of EHS [Electrohypersensitive] individuals tend to be outside the normal range. In particular, hyperactivity in the central nervous system and imbalance in the autonomic nervous system need to be followed up in clinical investigations and the results for the individuals taken as input for possible treatment."

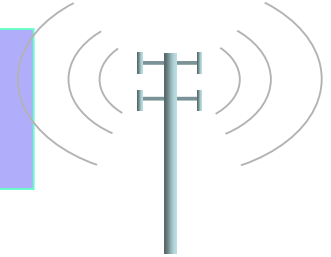


# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*

Scientific & Medical  
Concerns  
That can't be ignored!

**ElectroHyperSensitivity (EHS)  
Acknowledged by Canada**



Health Canada, Safety Code 6, 1999. page 11 .

"Certain members of the general public may be more susceptible to harm from RF and microwave exposure."

Canadian Human Rights Commission, Margaret E. Sears. 2007.  
The Medical Perspective on Environmental Sensitivities.

Approximately 3% of Canadians have been diagnosed with environmental sensitivities. They usually experience neurological impairments, and often experience other symptoms including runny eyes and nose, headaches, fatigue, pain and breathing and digestive problems. Environmental sensitivities may develop gradually after chronic exposure to relatively low levels of chemicals as seen in "sick buildings," or suddenly after a major exposure to an environmental disaster or a chemical spill. This condition may be initiated by one or a combination of environmental factors such as mould, pesticides, solvents, chemicals off-gassing from carpets or furnishings, or electromagnetic phenomena.

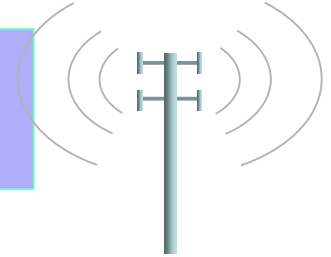


# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

Scientific & Medical  
Concerns  
That can't be ignored!

## ElectroHyperSensitivity (EHS) Acknowledged by Sweden



Sweden recognizes EHS (Johansson, 2009) Electromagnetic Biology and Medicine 25: 245-258.

"In Sweden, electrohypersensitivity (EHS) is an officially recognized functional impairment . . . 230,000 to 290,000 Swedish men and women report a variety of symptoms when being in contact with electromagnetic field (EMF) sources."

### Types of Environmental Sensitivities

Some people are sensitive to peanuts or shell fish. Others are unable to digest milk or gluten and still others respond to pollen or mold. Our society accepts these sensitivities and takes steps to minimize any harm by placing warnings on packages, by making schools peanut-free, by giving pollen counts as part of the weather report.

Electrosensitivity is just another one of these sensitivities that requires our immediate attention because levels of exposure are escalating with no regard for those who may be or may become sensitive.





# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Scientific & Medical Concerns

That can't be ignored!

## Warnings about Cell Phones



- |                                    |  |
|------------------------------------|--|
| <b>United Kingdom</b>              | " . . . we believe that the widespread use of mobile phones by children for non-essential calls should be discouraged." (Stewart Report 2000)  |
| <b>Germany</b>                     | People should avoid using Wi-Fi wherever possible because of the risks it may pose to health. (2007)   |
| <b>France</b>                      | The French government is warning consumers to avoid "excessive" cell phone use because of concerns that mobile phone use could increase the risk of some cancers . . . children who use cell phones face the most danger from the devices. (2008). Cell phones banned in primary schools and models cannot be used near the ear. |
| <b>Russia</b>                      | Children under the age of 18 should not use cell phones (2008).  |
| <b>India</b>                       | Ministry of Telecommunication recommends that children, pregnant women and people suffering from heart ailments limit use of mobile phones (2008).   |
| <b>Toronto Board of Health</b>     | Children under 8 should use cell phones for emergencies only and teens should limit calls to under 10 minutes (2008).  |
| <b>Pittsburgh Cancer Institute</b> | Head of prominent cancer research institute warns faculty and staff to limit cell phone use because of the possible risk of cancer (2008).   |
| <b>Belgium</b>                     | Discourage the use of cell phones by children (2008).  |
| <b>Finland</b>                     | The Radiation and Nuclear Power Authority urges parents to err on the side of caution, because . . . there is no definitive research indicating the absence of health risks from cell phone use (2009).  |
| <b>Seoul Korea</b>                 | "Cellular phones could harm the study atmosphere at schools and could cause health risks for kids. It is desirable to prohibit students from using cell phones at schools." (2009).  |
| <b>U.S. FCC</b>                    | Consumer Facts: Recommends precautionary steps for use of cell phones (2009).  |

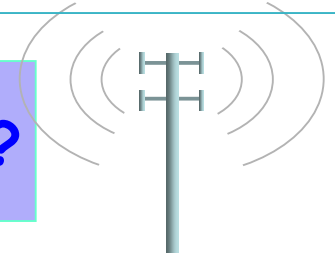


# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

Scientific & Medical Concerns  
That can't be ignored!

Doctors, did you know that . . . ?



**Electrosmog is associated with . . .** (from: *Do you have Microwave Sickness?* by Paul Doyon)

1. **Oxidative Damage.** Depletion of the body's natural store of antioxidants like Super Oxide Dimutase (SOD), Catalase, Glutathione, CoQ10, and Melatonin. When the body becomes depleted in antioxidants, premature aging, increased infections, and sticky blood are a few of the consequences. With a depressed level of antioxidants in the blood, for example, high-density lipoproteins (HDL) or the good cholesterol will bind with free radicals (oxidants) turning the good cholesterol into bad cholesterol or low-density lipoproteins (LDL).
2. **Abnormal flux of calcium.** When there is an abnormal influx of calcium into mast cells, for example, they produce histamine. This is just one of the ways in which microwave exposure has been known to trigger or aggravate allergic reactions.
3. **Mitochondria dysfunction.** Dysfunctional mitochondria will interfere with the cells' ability to produce energy and can be linked to fatigue and possibly even obesity.
4. **Clumping of blood cells.** The amount of oxygen getting to the brain cells and the cells of the body's other organs is diminished substantially, leading to hypoxia. This can cause symptoms similar to altitude sickness: nausea, dizziness, inability to concentrate, and so on.
5. **Decrease in the numbers of Natural Killer (NK) cells.** This weakens the body's ability to recover from viral and other types of infections. Long-term microwave radiation has been shown to change a particular form of white blood cell (lymphocyte) ratio - known as the T-helper/T-suppressor (T4/T8) cell ratio - from normal to abnormal. Abnormalities in this T-lymphocyte ratio have been shown to lead to an increased susceptibility to viral, fungal, and bacterial infections. Symptoms include sore throats, low-grade fevers, weakness, persistent fatigue, and swollen lymph glands.
6. **Increase in microbes** (viruses, bacteria, mold, parasites, and yeast) in human hosts and **Mycotoxins** (Klinghardt: chronic infection aggravated by EM exposure).

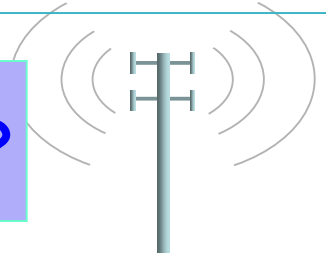


# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

Scientific & Medical Concerns  
That can't be ignored!

Doctors, did you know that . . . ?



**Electrosmog is associated with . . .** (from: *Do you have Microwave Sickness?* by Paul Doyon)

7. **Induced "subliminal" stress** causing the adrenal glands to excrete an abnormally greater amount of cortisol and adrenaline. Excretion of adrenaline, for one, can lead to irritability and a feeling of hyperactivity - the latter now very common in children with ADHD. In a continuous state this will eventually lead to adrenal exhaustion. Excessive cortisol has been linked to obesity.
8. **Decrease of 5-HT in the blood.** 5-HT is a precursor to the production of the brain hormone serotonin. Low levels of serotonin have been linked to anxiety and depression. An increase in anxiety and depression can in turn be linked to an increase in the number of suicides.
9. **Decreased levels of brain norepinephrine.** This hormone is essential for control of the autonomic nervous system, and lack of it can lead to autonomic nervous system disorders. The body will have trouble regulating its temperature. An abnormal decrease in norepinephrine levels has also been connected to short-term memory disturbances and depression.
10. **Altered production of melatonin.** This brain hormone and antioxidant is necessary for proper sleep. 42 million Americans (approximately one in five) now take sleep medication for insomnia. A drop in melatonin levels has also been connected with increases in breast cancer.
11. **Decreased dopamine in brain.** A drop in dopamine levels has been linked with depression, Parkinson's disease.
12. **Decreased levels of acetylcholine.** A drop in the levels of this neurotransmitter has been linked to a number of neurological and neuromuscular disorders - including Alzheimer's disease.
13. **Induced restlessness** and may be responsible for restless leg syndrome (RLS).
14. **Altered regional cerebral blood flow.** In conditions like autism and chronic fatigue syndrome (CFS) it has been shown via SPECT scan.
15. **Increased mobilization of mercury** from fillings. This has been shown for cell phone use and for exposure to MRI.

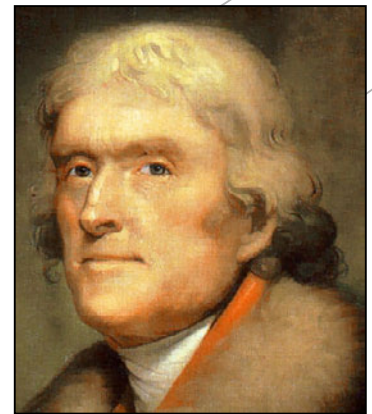


# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*

## Introduction

to the  
BRAG  
Antenna  
Study



*Honesty is the first chapter  
of the book of wisdom.*

*Thomas Jefferson*



# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols



## Fact . . .



- Each month, each year, more and more **antennas are erected** to provide drop-free coverage for the **270 million plus cell phone users** in the United States.
- These antennas are placed on towers, fire halls, church steeples, high rise buildings, hospitals, and on or near school property. Some of them are camouflaged so you won't always see them.
- Antennas emit **microwave radiation** and the more antennas there are, and the more often they are used, the more radiation they emit.
- The Federal Communication Commission (**FCC**) **does not routinely measure radiation levels** in the environment but relies on the calculated emissions provided by the telecommunications industry when they apply for a license to place an antenna in a particular area.
- Microwave radiation has been scientifically documented to have **adverse biological and health effects** on adults at levels below existing federal guidelines.
- **Children are more sensitive** than adults to microwave radiation and the risks of exposure are greater.

## Question we asked . . .



- How many and how close are antennas to schools in Washington, D.C. and in the 50 State Capitols?

## What we did to address this question . . .



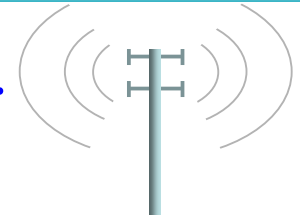
- We identified and tabulated the proximity and density of telecommunication antennas at 6,140 school in 50 state capitols and in Washington, D.C. .
- We graded, ranked, and color coded each school using a unique metric - the BRAG™ Antenna Ranking of Schools - described on the following pages.





# BRAG™ Antenna Ranking of Schools


Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols


## Wireless Hazards . . . E<sup>2</sup> Education & Empowerment





 The *BRAG™ Antenna Ranking of Schools (BARS)* has been prepared to educate and empower teachers, parents, students, school boards and surrounding communities about the potentially harmful effects of radio frequency and microwave radiation and wireless technology near schools.

 Microwave radiation is hazardous to health. This has been known since at least the 1950s. A fallacious argument, supported by the telecommunication industry, is that there is no potential for harm if the non-ionizing radiation is not powerful enough to heat tissues. The BioInitiative Report ([www.bioinitiative.org](http://www.bioinitiative.org)) references thousands of studies showing biological effects associated with electromagnetic radiation at non-thermal levels of exposure.

 The “thermal” argument, however, is still the position held by many regulatory bodies. As a result, radio frequency guidelines for public exposure in the U.S. are far too high, 100 times higher than guidelines in Russia and 10,000 times higher than those in Salzburg, Austria.

 Governments have failed in their responsibility to protect public health. Until such time as adequate exposure guidelines are provided to protect health, and especially the health of children who are more vulnerable, we recommend that families, communities and schools take precaution into their own hands.

 The *BRAG™ Antenna Ranking of Schools* provides a tool to estimate a school's exposure to radiation-emitting antennas. It is based on the proximity and number of antennas and is a “gauge of risk”. To determine “actual risk”, for any given school, measurement of radiation exposure is required since exposure can be affected by topography, height of antennas, presence of objects obstructing or reflecting the radiation, as well as other sources of external radiation (city-wide WiFi, broadcast antennas, radar) and internal radiation (wireless internet and other wireless devices).

 We encourage School Boards to include microwave radiation exposure as a routine component of their environmental toxins audit and, ultimately, to create microwave radiation-free schools.

 See the [“BRAG™ Recommendations for Schools”](#) for guidance on monitoring and mitigation.

## Part Three

### Method or What we did

- ✓ BRAG™ Color Code . . .
- ✓ BRAG™ Grade & Ranking



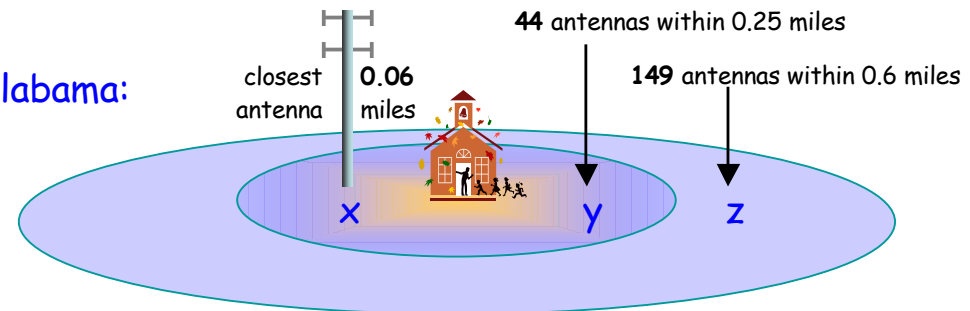
John Adams

*Liberty cannot be preserved  
without general knowledge  
among people.*



## What we did . . .

- ❑ We identified schools and obtained street addresses for each school in each state capitol and in Washington, D.C. using [www.greatschools.com](http://www.greatschools.com) and [www.50states.com](http://www.50states.com).
- ❑ We went to [www.antennasearch.com](http://www.antennasearch.com), which lists antennas within a 4 to 8 mile radius of a particular address, and entered the school addresses for each school.
- ❑ We recorded the distance of the closest antenna to each school (total of 6,140 schools) and counted the number of antennas within a radius of 0.25 miles (400 meters) and 0.6 miles (1 km). These distances were chosen because they correspond to the scientific literature values for distances from cell phone antennas at which adverse health effects are documented.
- ❑ The example to the right is of *Montgomery, Alabama*: The closest antenna (x) to any school is at 0.06 miles. The most antennas within 0.25 miles (y) of a school is 44 and the most within 0.6 miles (z) is 149.







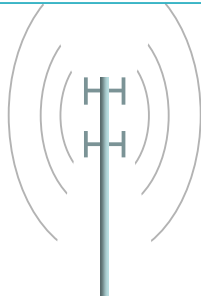
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols



## BRAG™ Color Code

This is how we color coded schools based on nearby antennas.



- We designed the BRAG™ Color Code (red, amber, green and black) to provide a way to compare schools visually for each of the 3 distances (x, y, z).

antennas			
<b>B</b>		<b>Black</b>	<b>most</b>
<b>R</b>		<b>Red</b>	<b>more</b>
<b>A</b>		<b>Amber</b>	<b>some</b>
<b>G</b>		<b>Green</b>	<b>few</b>

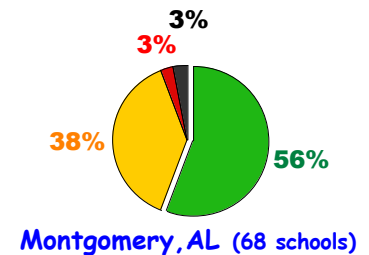
BRAG Color Code	Closest Antenna distance (miles)	Number of Antennas within		BRAG Color Code for each school
	x	0.25 miles y	0.6 miles z	
<b>Black</b>	≤ 0.06 mi	≥ 13	≥ 76	median of x,y,z
<b>Red</b>	0.061 - 0.25 mi	6 - 12	31 - 75	
<b>Amber</b>	0.26 - 0.6 mi	1 - 5	6 - 30	
<b>Green</b>	> 0.6 mi	0	≤ 5	

- We assigned the BRAG™ Color Code for each distance (x, y, z) and used the middle value (median) to classify the school (see examples to the right).

Examples:	x	y	z	color code
school A	0.4	0	42	<b>A: amber</b>
school B	0.02	8	50	<b>R: red</b>
school C	0.8	0	0	<b>G: green</b>

In these examples, School A is classified as **amber**, School B as **red**, and School C as **green**.

- Once the schools were classified according to color, we calculated the percentage of schools within a state capitol for each of the 4 BRAG™ Color Codes (Black, Red, Amber, Green) (shown as a pie chart here for Montgomery, AL). The color category with the largest percentage of schools was designated the "State Capitol Color". Montgomery is classified as **green** because 56% of the schools in Montgomery were BRAG™ Green.





## State Capitol BRAG™ Grade & Ranking

- To determine a **composite grade** for the state capitols we calculated a weighted-average as follows: the percentage of green schools were multiplied by 3; amber schools by 2; red schools by 1; and black schools by 0; and the total was divided by 3 to give a weighted-average value from 0 to 100%. We refer to this as the "**State Capitol BRAG™ Grade**".



Grade-State Capitol

- We used the "**State Capitol BRAG™ Grade**" to rank all the 50 state capitols as well as Washington D.C. for comparison purposes. The Capitols were ranked in order from best (1) to worst (51) according to grade and the xyz distances and this provided the "**State Capitol BRAG™ Rank**".



Can your school BRAG?  
Ranked ? BEST US state capitol.

- The "**BRAG™ Color Code**" and the "**State capitol BRAG™ Grade**" enables quick comparison of schools and cities and is based on just three simple metrics that provide information on density and proximity of antennas. These metrics can be applied to any location including hospitals, nursing homes, fire stations, and residences.



For information about what you can do to minimize exposure to microwave radiation for your school environment see [BRAG™ Recommendations for Schools.](#)

## Part Four

### Results

- ✓ Summary of Results
- ✓ Results By State Capitol  
(from BEST to WORST)



Aldous Huxley

*Facts don't cease to exist just  
because they are ignored.*

**NOTE:** The *BRAG™ Antenna Ranking of Schools* documents the proximity and density of telecommunication antennas near 6,140 schools across the U.S. during the period 2006-2010. Additional antennas continue to be added and microwave radiation generated by cell phone antennas have likely increased since this survey began. Minimizing exposures to microwave radiation in schools is critical for protecting the health of students and staff.



# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols



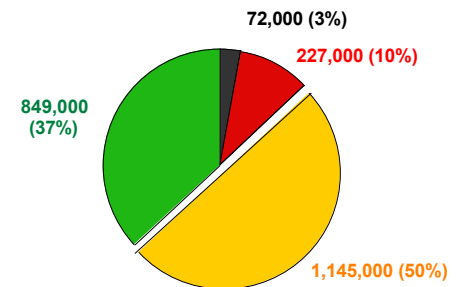
## Summary of Results . . . Overview

1. A total of **6,140 schools** were identified for which antenna data were available in the 50 State Capitols and in Washington, D.C.
2. These schools provide education to approximately **2.3 million students**.
3. **Color Code:** Of the 51 US cities in this study, **12** had predominantly "green" schools; **36** had predominantly "amber" schools; and **3** had predominantly "red" schools (Helena, MT, Montpelier, VT, and Honolulu, HI).

4. In these 51 US cities, approximately . . .

**72,000** students (**3%**) attend schools coded **black** (most antennas);  
**227,000** students (**10%**) attend schools coded **red**;  
**1,145,000** students (**50%**) attend schools coded **amber**; and  
**849,000** students (**37%**) attend schools coded **green** (fewest antennas).

Number of Students in 51 Capitol Cities attending BRAG™ color-coded school

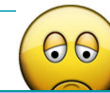


So . . . approximately 300,000 students in 51 US cities go to schools that have numerous antennas nearby (**red** and **black**). Students and staff in these schools are likely to be exposed to elevated levels of microwave radiation. It is important that microwave radiation at **red** and **black** schools have electromagnetic radiation monitoring conducted.



# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols



## Summary of Results . . . Best & Worst

5. **Composite Grade\*** for the 51 US Capitols ranged from 87% to 44%\* and the **Top 5** and **Bottom 5** schools are shown in the table below.



### The 5 Best



### The 5 Worst

Rank	City, State	BRAG™ Grade	BRAG™ Color Code
1	Richmond, VA	87%	Green
2	Columbia, SC	87%	Green
3	Nashville, TN	84%	Green
4	Little Rock, AK	83%	Green
5	Jackson, MS	83%	Green
47	Carson City, NV	56%	Amber
48**	Washington, D.C.	49%	Amber
49**	Hartford, CT	52%	Amber
50	Honolulu, HI	47%	Red
51	Boston, MA	44%	Amber

\* Grade was calculated out of 100%

\*\* Rank was based on more than just grade.



# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols



## Summary of Results . . . BRAG™ Rank, Grade, Color Code

The BRAG™ rank, grade, and color code for each capitol city is shown below. Cities with the highest grade have the fewest antennas near schools. For BRAG™ Grade and Color Code refer to page 27/28.

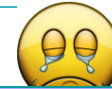
Rank	City	# schools	# students	BRAG™	
				Grade	Color Code
1	Richmond, VA	178	82,600	87%	green
2	Columbia, SC	78	49,715	87%	green
3	Nashville, TN	109	55,206	83%	green
4	Little Rock, AR	94	37,444	83%	green
5	Jackson, MS	44	16,187	83%	green
6	Montgomery, AL	68	35,001	82%	green
7	Lincoln, NE	86	36,805	82%	green
8	Olympia, WA	33	13,577	82%	amber
9	Baton Rouge, LA	123	57,947	80%	green
10	Salem, OR	84	33,504	80%	green
11	Topeka, KS	59	24,746	80%	green
12	Sacramento, CA	260	128,612	79%	amber
13	Lansing, MI	67	24,511	78%	amber
14	Madison, WI	67	28,815	78%	amber
15	Columbus, OH	476	125,069	77%	amber
16	Annapolis, MD	74	37,452	77%	amber
17	Boise, ID	42	14,902	77%	green
18	Indianapolis, IN	504	138,664	77%	amber
19	Oklahoma City, OK	155	86,291	77%	amber
20	Des Moines, IA	76	34,866	76%	amber
21	Dover, DE	35	9,039	76%	amber
22	Jefferson City, MO	25	11,842	75%	amber
23	Phoenix, AZ	393	227,212	73%	amber
24	Austin, TX	189	113,464	74%	amber
25	Springfield, IL	63	19,798	74%	amber
26	Salt Lake City, UT	116	44,050	74%	amber

Rank	City	# schools	# students	BRAG™	
				Grade	Color Code
27	Tallahassee, FL	61	36,713	74%	amber
28	Raleigh, NC	85	61,327	73%	green
29	Denver, CO	200	91,843	73%	amber
30	Trenton, NJ	67	28,912	73%	amber
31	Frankfort, KY	19	nd	70%	amber
32	Saint Paul, MN	358	87,666	70%	amber
33	Charleston, WV	38	13,699	70%	amber
34	Santa Fe, NM	32	13,233	70%	amber
35	Bismarck, ND	32	11,770	70%	amber
36	Cheyenne, WY	35	13,456	70%	amber
37	Atlanta, GA	440	118,966	67%	amber
38	Concord, NH	20	5,900	65%	amber
39	Juneau, AK	18	5,698	65%	amber
40	Providence, RI	73	33,292	64%	amber
41	Augusta, ME	32	3,354	63%	amber
42	Pierre, SD	10	3,255	63%	amber
43	Helena, MT	19	7,569	63%	red
44	Albany, NY	55	nd	64%	amber
45	Harrisburg, PA	118	28,344	63%	amber
46	Montpellier, VT	15	1,934	60%	red
47	Carson City, NV	12	8,959	56%	amber
48	Washington, DC	448	93,529	49%	amber
49	Hartford, CT	49	nd	52%	amber
50	Honolulu, HI	121	61,269	47%	red
51	Boston, MA	280	75,187	44%	amber
Total		→ 6,140	2,293,194	71%	← Average



# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols



## Summary of Results ... Worst Cases

Worst case examples for the most antennas near schools are provided below. Of particular concern are those schools that have antennas within 0.25 km. Notice that there are 28 cities with 30 or more antennas within 0.25 miles of schools! Every city has antennas within 0.1 miles of schools.

Worst Case:		antennas		
Rank	City	nearest (miles)	# within 0.25 miles	# within 0.6 miles
1	Richmond, VA	0.01	5	16
2	Columbia, SC	0.01	37	151
3	Nashville, TN	0.02	49	235
4	Little Rock, AR	0.04	17	52
5	Jackson, MS	0.01	31	96
6	Montgomery, AL	0.06	44	149
7	Lincoln, NE	0.02	50	112
8	Olympia, WA	0.04	4	40
9	Baton Rouge, LA	0.03	83	164
10	Salem, OR	0.00	40	108
11	Topeka, KS	0.03	14	94
12	Sacramento, CA	0.01	18	158
13	Lansing, MI	0.02	16	135
14	Madison, WI	0.02	7	106
15	Columbus, OH	0.01	252	414
16	Annapolis, MD	0.02	9	38
17	Boise, ID	0.01	17	117
18	Indianapolis, IN	0.00	134	459
19	Oklahoma City, OK	0.01	26	209
20	Des Moines, IA	0.02	90	181
21	Dover, DE	0.01	9	31
22	Jefferson City, MO	0.01	12	35
23	Phoenix, AZ	0.00	49	390
24	Austin, TX	0.02	111	274
25	Springfield, IL	0.01	92	169
26	Salt Lake City, UT	0.02	40	221

Worst Case:		antennas		
Rank	City	nearest (miles)	# within 0.25 miles	# within 0.6 miles
27	Tallahassee, FL	0.01	13	95
28	Raleigh, NC	0.02	118	201
29	Denver, CO	0.00	58	581
30	Trenton, NJ	0.03	36	98
31	Frankfort, KY	0.09	11	18
32	Saint Paul, MN	0.01	146	340
33	Charleston, WV	0.02	40	93
34	Santa Fe, NM	0.05	31	49
35	Bismarck, ND	0.05	16	109
36	Cheyenne, WY	0.01	26	84
37	Atlanta, GA	0.01	207	679
38	Concord, NH	0.02	24	52
39	Juneau, AK	0.02	9	21
40	Providence, RI	0.03	29	120
41	Augusta, ME	0.04	22	59
42	Pierre, SD	0.10	12	29
43	Helena, MT	0.00	38	70
44	Albany, NY	0.01	36	197
45	Harrisburg, PA	0.01	107	181
46	Montpelier, VT	0.04	10	34
47	Carson City, NV	0.03	18	55
48	Washington, DC	0.00	149	353
49	Hartford, CT	0.01	122	257
50	Honolulu, HI	0.01	101	291
51	Boston, MA	0.00	304	749
range		0 - 0.1	4 - 304	16 - 749



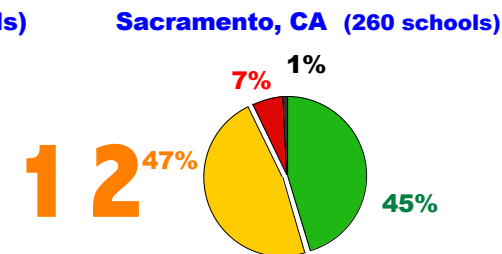
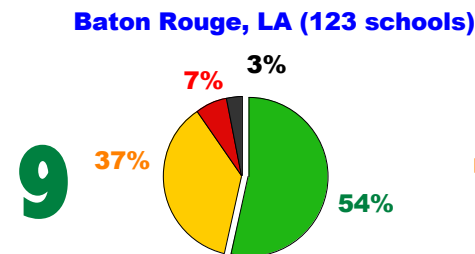
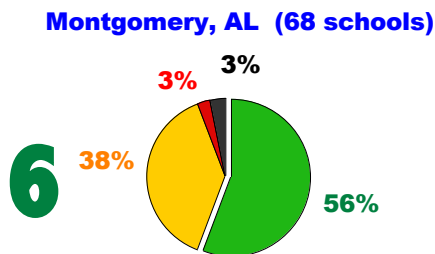
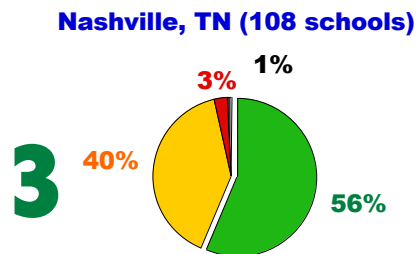
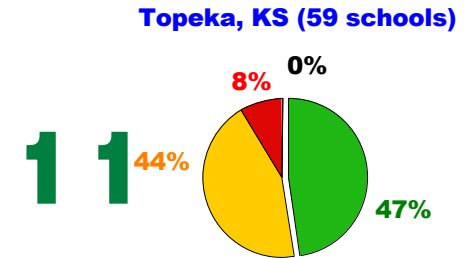
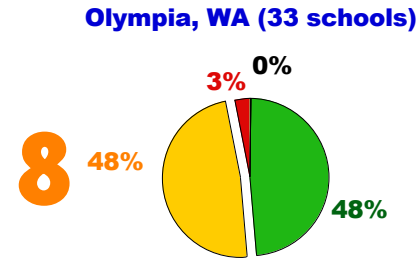
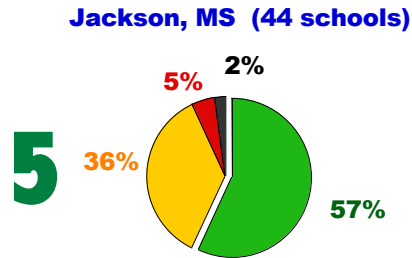
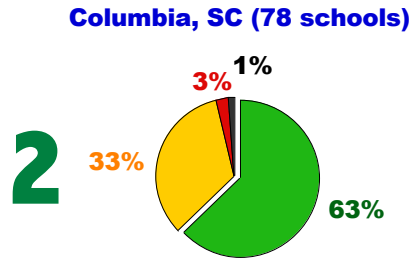
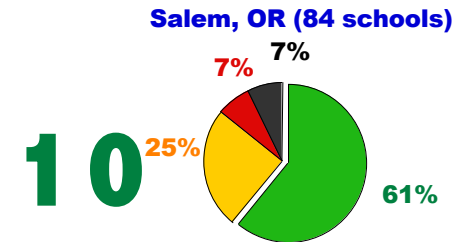
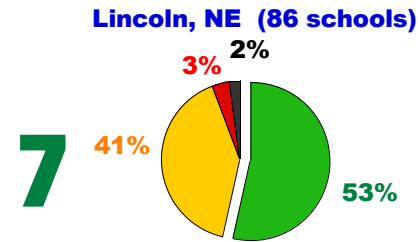
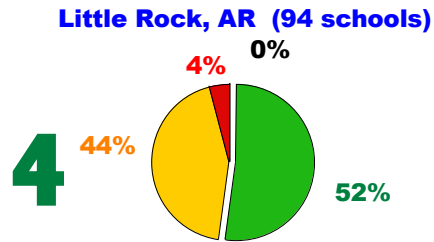
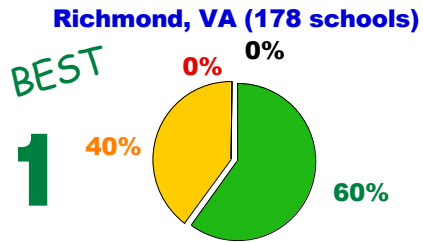
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

legend **B** black **R** red **A** amber **G** green



## Summary of Results . . . Ranking of State Capitols & Distribution of Schools from best to worst







# BRAG™ Antenna Ranking of Schools

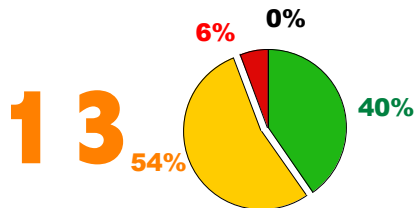
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

legend **B** black **R** red **A** amber **G** green

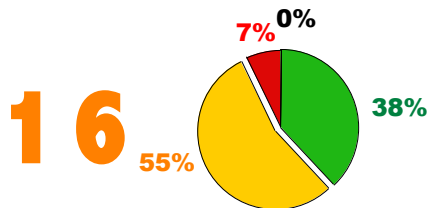


## Summary of Results . . . Ranking of State Capitols & Distribution of Schools from best to worst

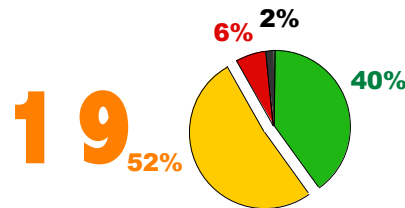
Lansing, MI (67 schools)



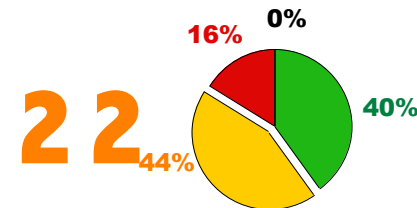
Annapolis, MD (42 schools)



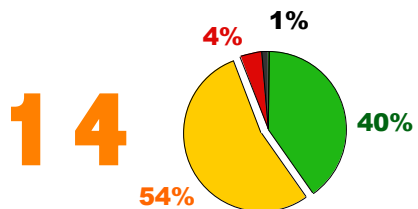
Oklahoma City, OK (155 schools)



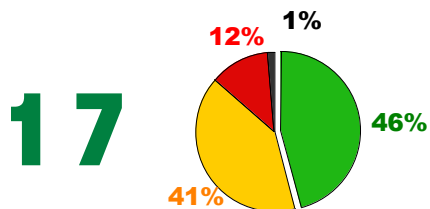
Jefferson City, MO (25 schools)



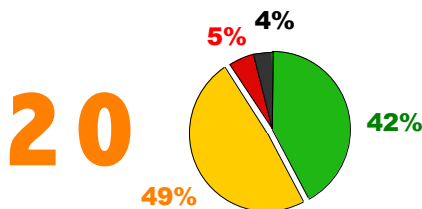
Madison, WI (67 schools)



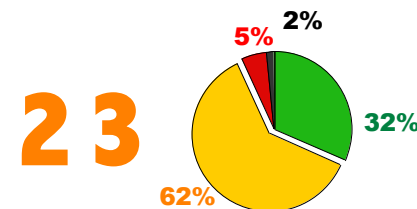
Boise, ID (74 schools)



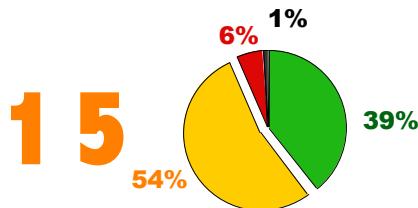
Des Moines, IA (76 schools)



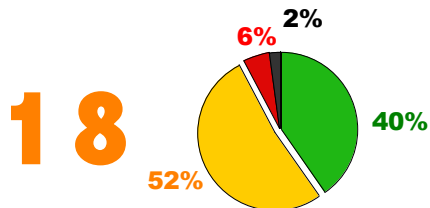
Phoenix, AZ (393 schools)



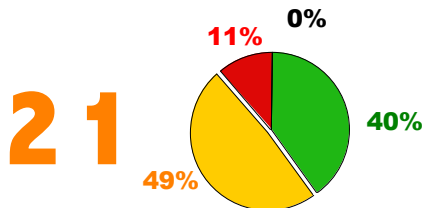
Columbus, OH (476 schools)



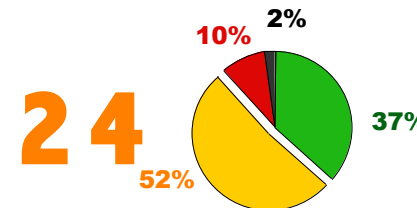
Indianapolis, IN (504 schools)



Dover, DE (61 schools)



Austin, TX (188 schools)





# BRAG™ Antenna Ranking of Schools

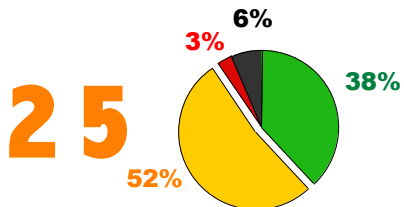
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

legend **B** black **R** red **A** amber **G** green

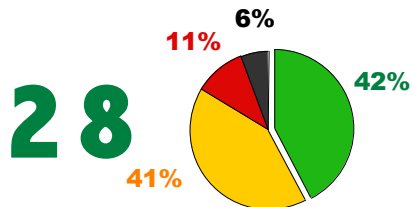


## Summary of Results . . . Ranking of State Capitols & Distribution of Schools from best to worst

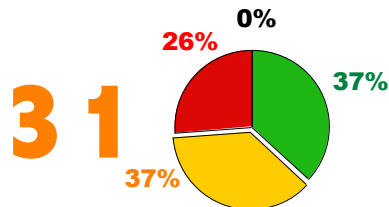
Springfield, IL (63 schools)



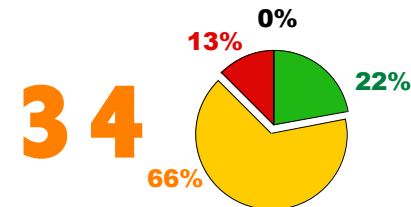
Raleigh, NC (85 schools)



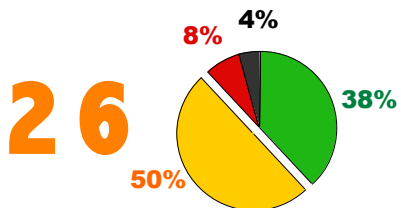
Frankfort, KY (19 schools)



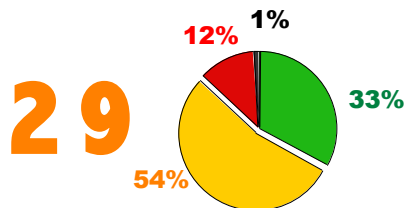
Santa Fe, NM (32 schools)



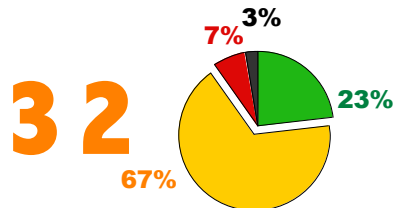
Salt Lake City, UT (116 schools)



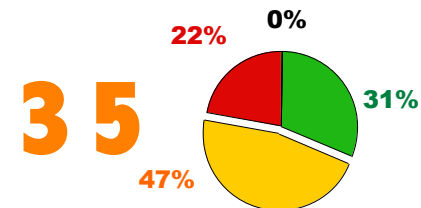
Denver, CO (200 schools)



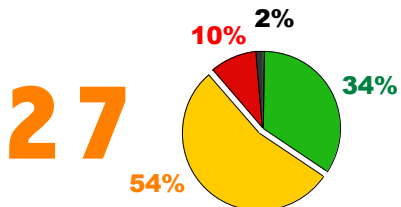
Saint Paul, MN (358 schools)



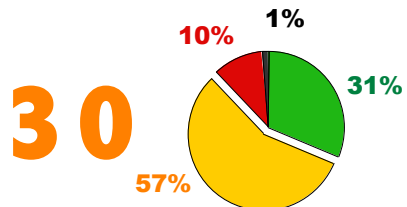
Bismarck, ND (32 schools)



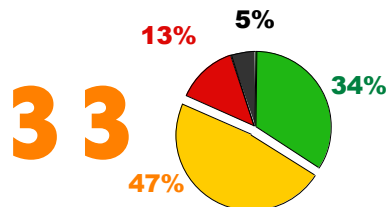
Tallahassee, FL (61 schools)



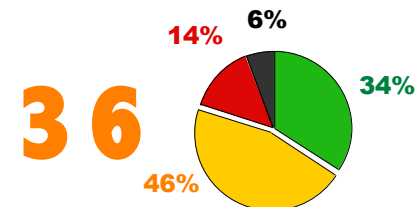
Trenton, NJ (67 schools)



Charleston, WV (38 schools)



Cheyenne, WY (35 schools)





# BRAG™ Antenna Ranking of Schools

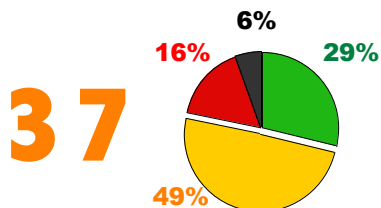
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

legend **B** black **R** red **A** amber **G** green

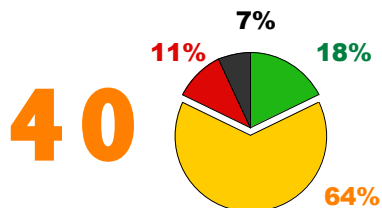


## Summary of Results . . . Ranking of State Capitols & Distribution of Schools from best to worst

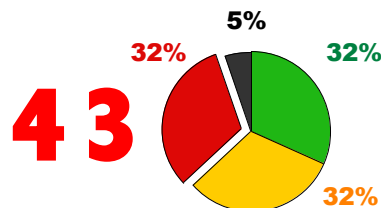
Atlanta, GA (440 schools)



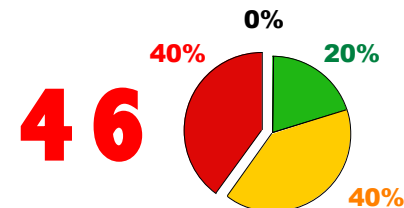
Providence, RI (73 schools)



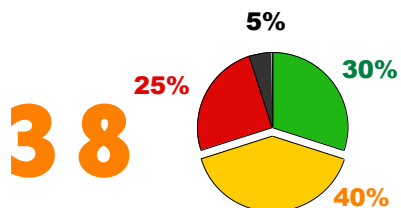
Helena, MT (19 schools)



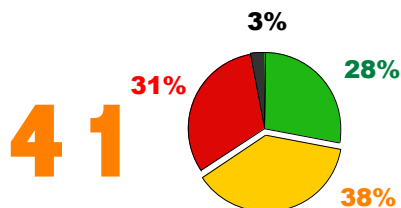
Montpelier, VT (15 schools)



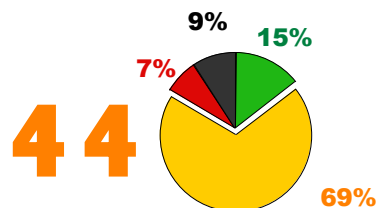
Concord, NH (20 schools)



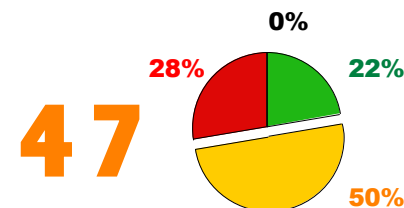
Augusta, ME (32 schools)



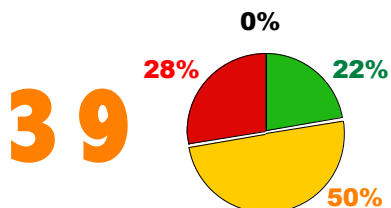
Albany, NY (55 schools)



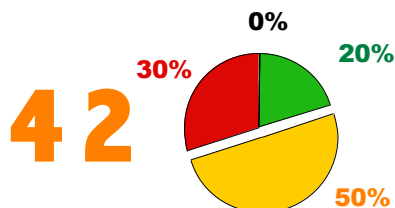
Carson City, NV (12 schools)



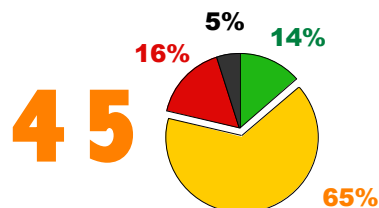
Juneau, AK (18 schools)



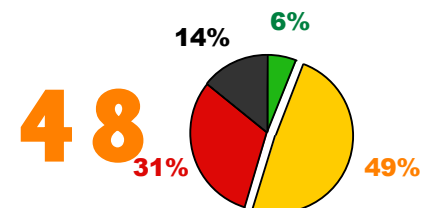
Pierre, SD (10 schools)



Harrisburg, PA (118 schools)



Washington, DC (448 schools)





# BRAG™ Antenna Ranking of Schools

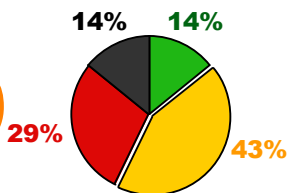
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

legend **B** black **R** red **A** amber **G** green

## Summary of Results . . . Ranking of State Capitols & Distribution of Schools from best to worst

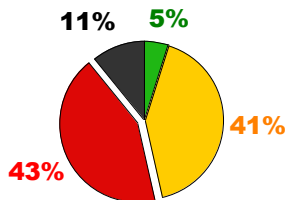
Hartford, CT (49 schools)

49



Honolulu, HI (121 schools)

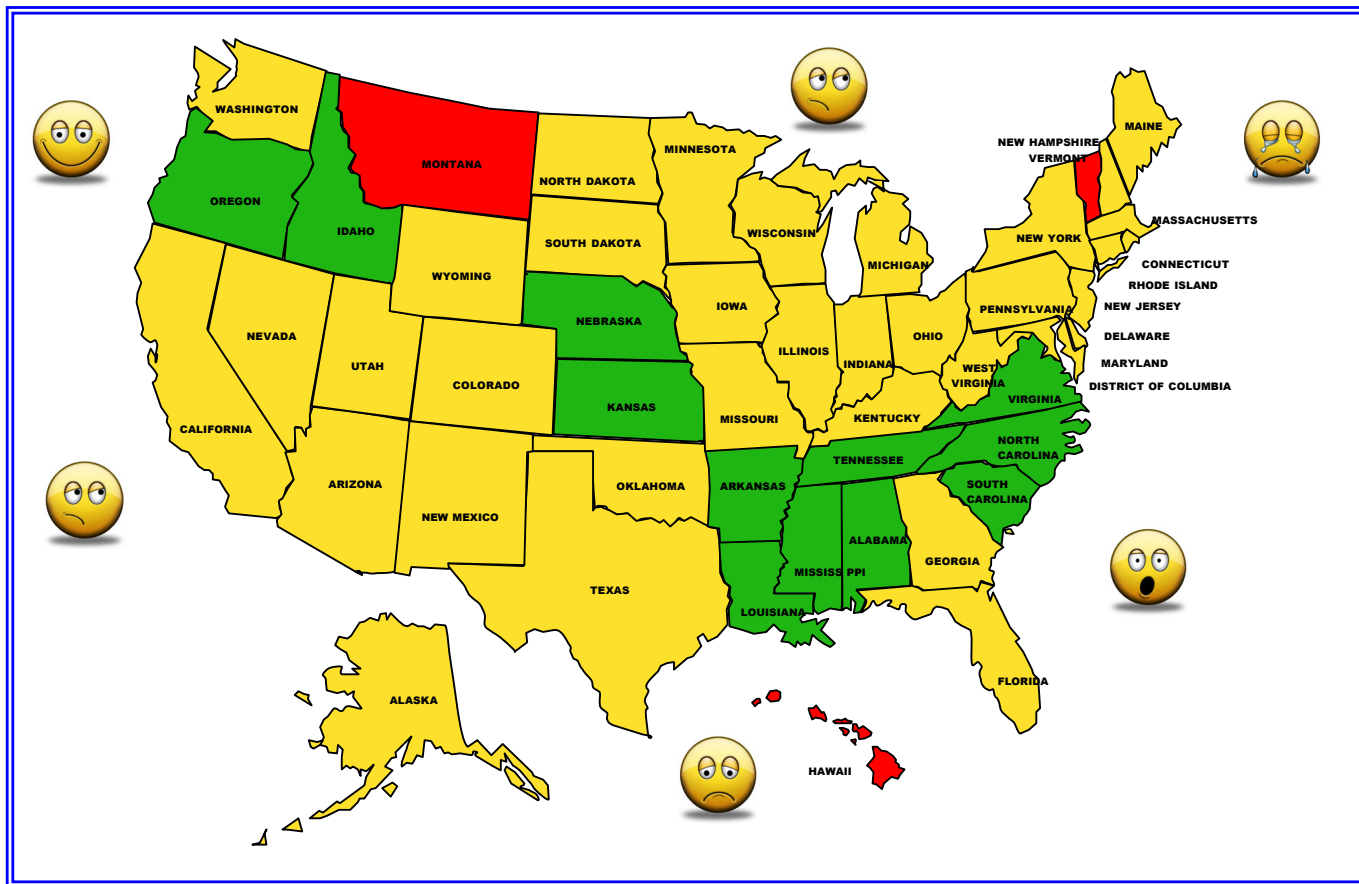
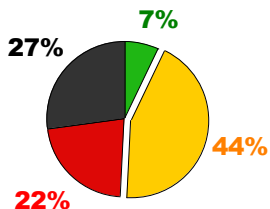
50



Boston, MA (280 schools)

WORST

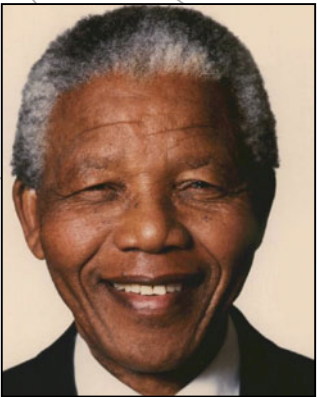
51



## Part Four

### Results

- ✓ Summary of Results
- ✓ Results By State Capitol  
(from BEST to WORST)



Nelson Mandela

*Education is the most powerful weapon which you can use to change the world.*

**NOTE:** The BRAG™ Antenna Ranking of Schools documents the proximity and density of telecommunication antennas near 6,140 schools across the U.S. during the period 2006-2010. Additional antennas continue to be added and exposure exposures generated by cell phone antennas have likely increased since this survey began. Minimizing exposure to microwave radiation in schools is critical for protecting the health of students and staff.

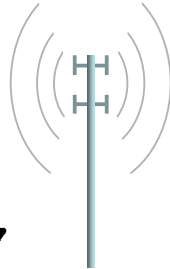
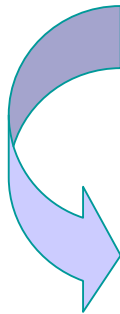


# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Richmond, Virginia BRAG™ Antenna Ranking of Schools

### Grade for Richmond



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Ranked **1st** State Capitol!



Gold Star

**Richmond can BRAG!**



**Most schools in Richmond, VA: BRAG™ GREEN**

Of the 178 schools in Richmond, VA surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (60% of the schools) fell in the lowest exposure category or BRAG™ green, 40% were classified as amber, 0% as red and 0% as black.



**Richmond Overall Grade: 87%**

Antennas near schools in Richmond, VA generated a composite BRAG™ grade for this state capitol of 87%, ranking Richmond the 1st-best school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Richmond.



**Worst School Cases found in Richmond, VA:**

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.01 miles (~15 meters); 5 antennas within 0.25 miles (~400 meters); or 16 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



**What you can do:**

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

1

State Capitol Ranking



Gold Star Award!

Richmond can BRAG!

Ranked 1<sup>st</sup> U.S. state capitol

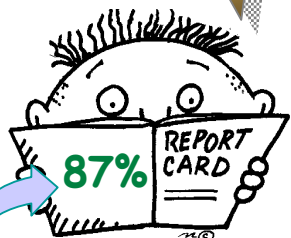
Richmond, Virginia

BRAG™ Antenna Ranking of Schools

87%



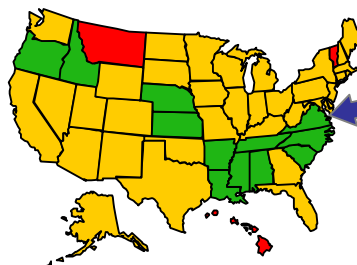
State Capitol Grade



Grade-Richmond

Composite Grade

0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on a) the closest antenna to schools, b) the number of antennas within 0.25 miles, & c) the number of antennas within 0.6 miles.

Antennas

most	●	B	Black
more	●	R	Red
some	●	A	Amber
few	●	G	Green

GREEN



State Capitol Color Code

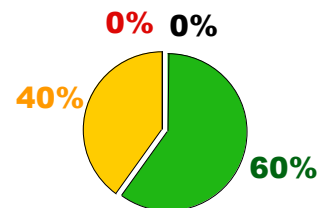


60%

Richmond Color Code: BRAG™ GREEN

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (60%) in Richmond, VA are in the lowest exposure category (BRAG™ green) and 0% of the schools are in the two highest categories (BRAG™ red & black).

Richmond, VA (178 schools)



ATTENTION NEEDED!



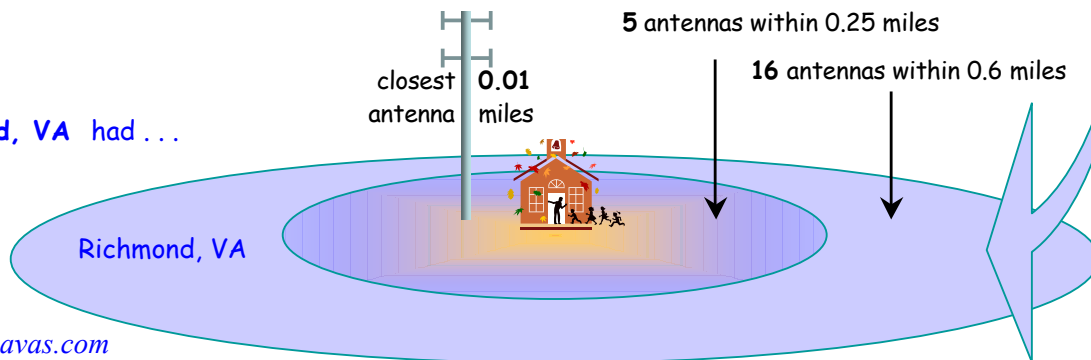
Worst Cases!

The Worst BRAG™ Schools found in Richmond, VA had ...

- Closest antenna to a school - 0.01 miles away!
- Antennas within 0.25 miles - 5 antennas!
- Antennas within 0.6 miles - 16 antennas!

Find your favorite school.

closest antenna 0.01 miles  
5 antennas within 0.25 miles  
16 antennas within 0.6 miles







It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

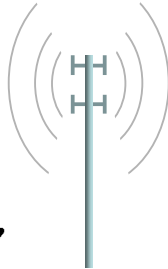
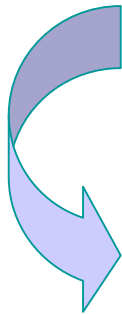
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

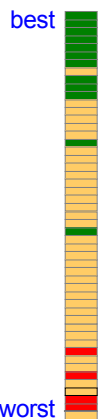
## Columbia, South Carolina

BRAG™ Antenna Ranking of Schools

### Grade for Columbia



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Ranked **2nd** State Capitol!



Gold Star

**Columbia can BRAG!**



### Most schools in Columbia, SC: BRAG™ GREEN

Of the 78 schools in Columbia, SC surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (63% of the schools) fell in the lowest exposure category or BRAG™ green, 33% were classified as amber, 3% as red and 1% as black.



### Columbia Overall Grade: 87%

Antennas near schools in Columbia, SC generated a composite BRAG™ grade for this state capitol of 87%, ranking Columbia the 2nd best school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Columbia.



### Worst School Cases found in Columbia, SC:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.01 miles (~15 meters); 37 antennas within 0.25 miles (~400 meters); or 151 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)





# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

**2**

State Capitol Ranking



Gold Star Award!

Columbia can BRAG!

Ranked **2nd** U.S. state capitol

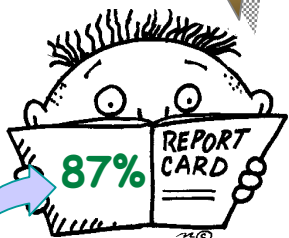
## Columbia, South Carolina

BRAG™ Antenna Ranking of Schools

**87%**



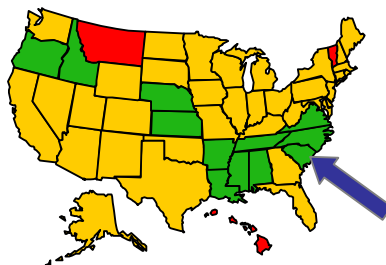
State Capitol Grade



Grade-Columbia

### Composite Grade

0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



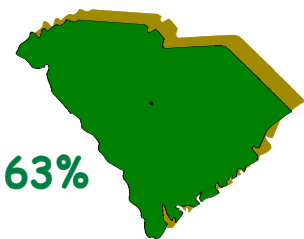
The BRAG™ School Color Code is based on a) the closest antenna to schools, b) the number of antennas within 0.25 miles, & c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

**GREEN**



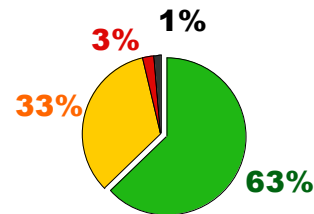
State Capitol Color Code



### Columbia Color Code: BRAG™ GREEN

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (63%) in Columbia, SC are in the lowest exposure category (BRAG™ green) and fewer than 5% of the schools are in the two highest categories (BRAG™ red & black).

### Columbia, SC (78 schools)



## ATTENTION NEEDED!



Worst Cases!

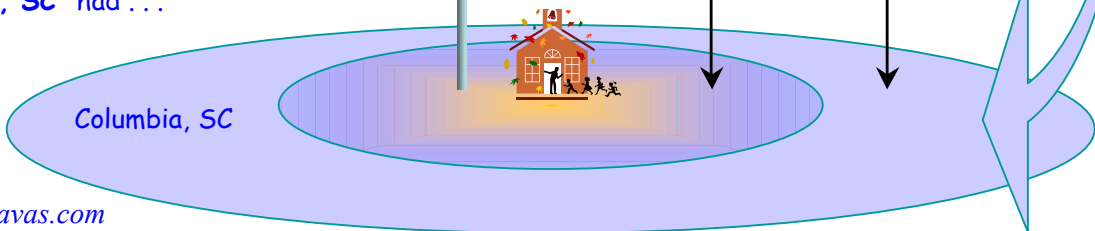
The Worst BRAG™ Schools found in Columbia, SC had ...

- Closest antenna to a school - 0.01 miles away!
- Antennas within 0.25 miles - 37 antennas!
- Antennas within 0.6 miles - 151 antennas!

Find your favorite school.



closest antenna 0.01 miles  
37 antennas within 0.25 miles  
151 antennas within 0.6 miles





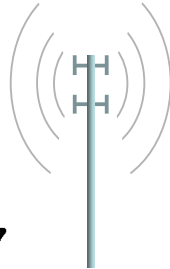
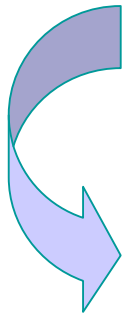
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

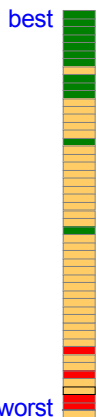
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Nashville, Tennessee BRAG™ Antenna Ranking of Schools

### Grade for Nashville



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



Ranked  
**3<sup>rd</sup>**  
State Capitol!



Gold Star

**Nashville can BRAG!**



**Most schools in Nashville, TN: BRAG™ GREEN**

Of the 108 schools in Nashville, TN surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (56% of the schools) fell in the lowest exposure category or BRAG™ green, 40% were classified as amber, 3% as red and 1% as black.



**Nashville Overall Grade: 84%**

Antennas near schools in Nashville, TN generated a composite BRAG™ grade for this state capitol of 84%, ranking Nashville the 3<sup>rd</sup> best school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Nashville.



**Worst School Cases found in Nashville, TN:**

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.02 miles (~30 meters); 49 antennas within 0.25 miles (~400 meters); or 235 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



**What you can do:**

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

**3**

State Capitol Ranking



Gold Star Award!

Nashville can BRAG!

Ranked **3<sup>rd</sup>** U.S. state capitol.

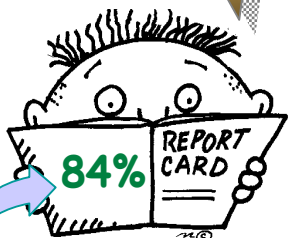
**Nashville, Tennessee**

BRAG™ Antenna Ranking of Schools

**84%**



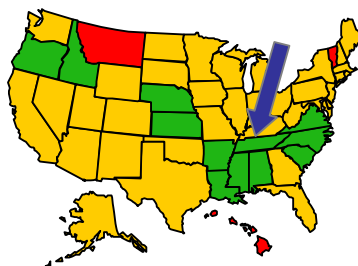
State Capitol Grade



Grade-Nashville

Composite Grade

0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on a) the closest antenna to schools, b) the number of antennas within 0.25 miles, & c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

**GREEN**



State Capitol Color Code

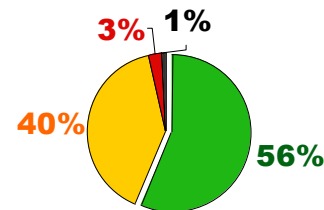


**56%**

Nashville Color Code: BRAG™ GREEN

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (56%) in Nashville, TN are in the lowest exposure category (BRAG™ green) and fewer than 10% of the schools are in the two highest categories (BRAG™ red & black).

Nashville, TN (108 schools)



## ATTENTION NEEDED!

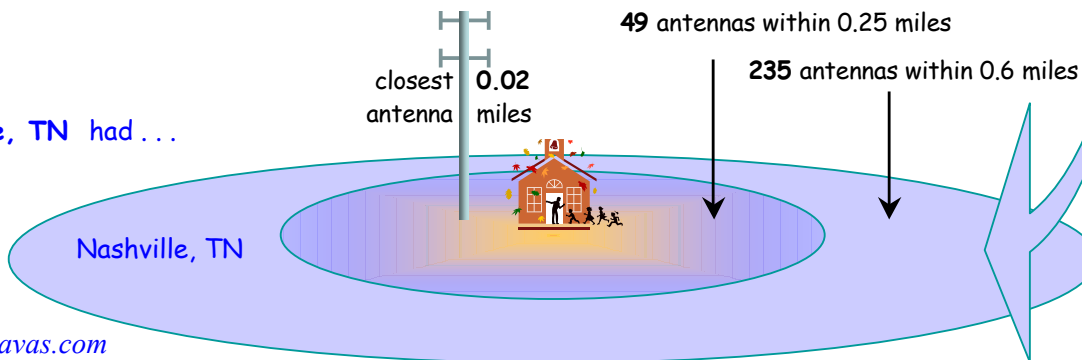


Worst Cases!

The Worst BRAG™ Schools found in Nashville, TN had ...

- Closest antenna to a school - 0.02 miles away!
- Antennas within 0.25 miles - 49 antennas!
- Antennas within 0.6 miles - 235 antennas!

Find your favorite school.





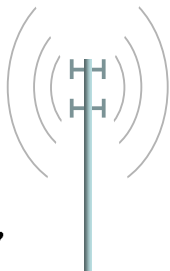
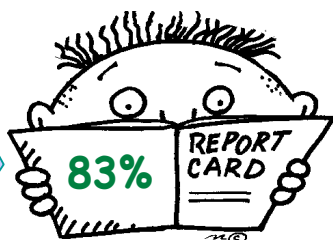
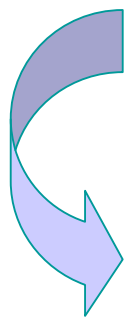
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Little Rock, Arkansas BRAG™ Antenna Ranking of Schools

### Grade for Little Rock



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Ranked **4th** State Capitol!



Gold Star

**Little Rock can BRAG!**



**Most schools in Little Rock, AR: BRAG™ GREEN**

Of the 94 schools in Little Rock, AR surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (52% of the schools) fell in the lowest exposure category or BRAG™ green, 44% were classified as amber, 4% as red, and 0% as black.



**Little Rock Overall Grade: 83%**

Antennas near schools in Little Rock, AR generated a composite BRAG™ grade for this state capitol of 83%, ranking Little Rock the 4th best school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Little Rock.



**Worst School Cases found in Little Rock, AR:**

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.04 miles (~60 meters); 17 antennas within 0.25 miles (~400 meters); or 52 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



**What you can do:**

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

4

State Capitol Ranking



Gold Star Award!

Little Rock can BRAG!

Ranked 4th BEST U.S. state capitol.

Little Rock, Arkansas

BRAG™ Antenna Ranking of Schools

83%



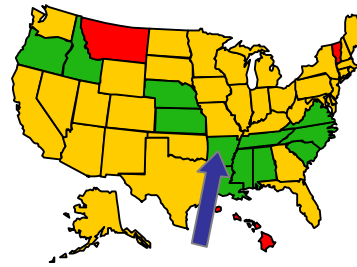
State Capitol Grade



Grade-Little Rock

Composite Grade

0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on a) the closest antenna to schools, b) the number of antennas within 0.25 miles, & c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

GREEN



State Capitol Color Code

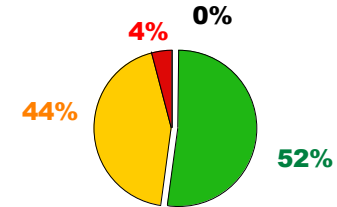


52%

Little Rock Color Code: BRAG™ GREEN

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (52%) in Little Rock, AR are in the 2nd lowest exposure category (BRAG™ green) and fewer than 5% of the schools are in the two highest categories (BRAG™ red & black).

Little Rock, AR (94 schools)



## ATTENTION NEEDED!

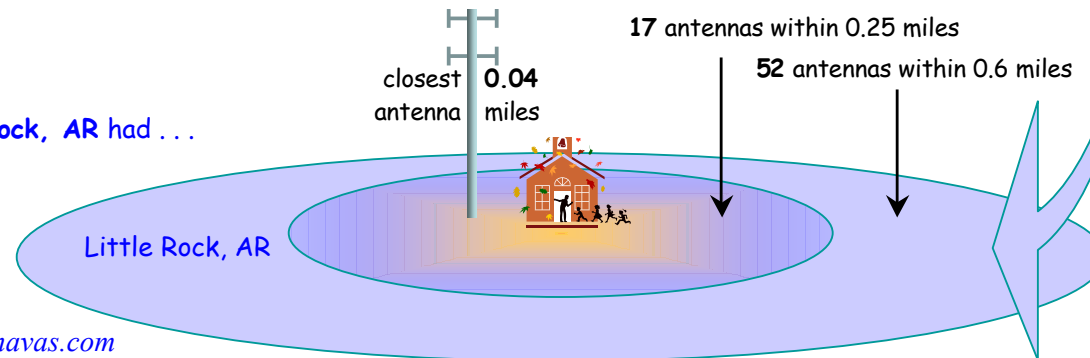


Worst Cases!

The Worst BRAG™ Schools found in Little Rock, AR had . . .

- Closest antenna to a school - 0.04 miles away!
- Antennas within 0.25 miles - 17 antennas!
- Antennas within 0.6 miles - 52 antennas!

Find your favorite school.







It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

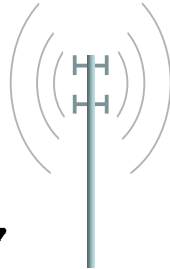
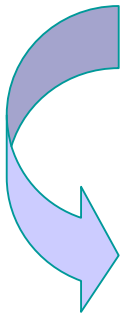
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

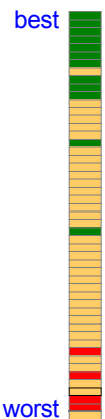
## Jackson, Mississippi

BRAG™ Antenna Ranking of Schools

### Grade for Jackson



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



Ranked  
**5<sup>th</sup>**  
State Capitol!



Gold Star

**Jackson can BRAG!**



### Most schools in Jackson, MS: BRAG™ GREEN

Of the 44 schools in Jackson, MS surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (57% of the schools) fell in the lowest exposure category or BRAG™ green, 36% were classified as amber, 5% as red and 2% as black.



### Jackson Overall Grade: 83%

Antennas near schools in Jackson, MS generated a composite BRAG™ grade for this state capitol of 83%, ranking Jackson the 5<sup>th</sup> best school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Jackson.



### Worst School Cases found in Jackson, MS:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.01 miles (~15 meters); 31 antennas within 0.25 miles (~400 meters); or 96 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

**5**

State Capitol Ranking



Gold Star Award!

Jackson can BRAG!

Ranked **5<sup>th</sup>** U.S. state capitol.

**Jackson, Mississippi**

BRAG™ Antenna Ranking of Schools

**83%**



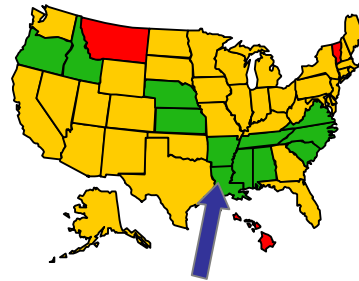
State Capitol Grade



Grade-Jackson

**Composite Grade**

0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



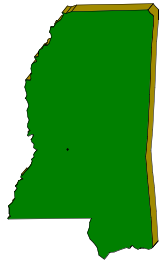
The BRAG™ School Color Code is based on a) the closest antenna to schools, b) the number of antennas within 0.25 miles, & c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

**GREEN**



State Capitol Color Code

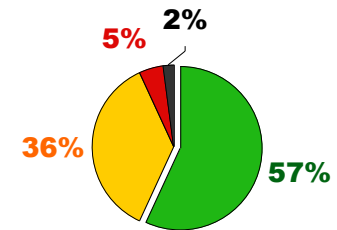


57%

Jackson Color Code: BRAG™ GREEN

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (57%) in Jackson, MS are in the lowest exposure category (BRAG™ green) and fewer than 10% of the schools are in the two highest categories (BRAG™ red & black).

Jackson, MS (44 schools)



## ATTENTION NEEDED!



Worst Cases!

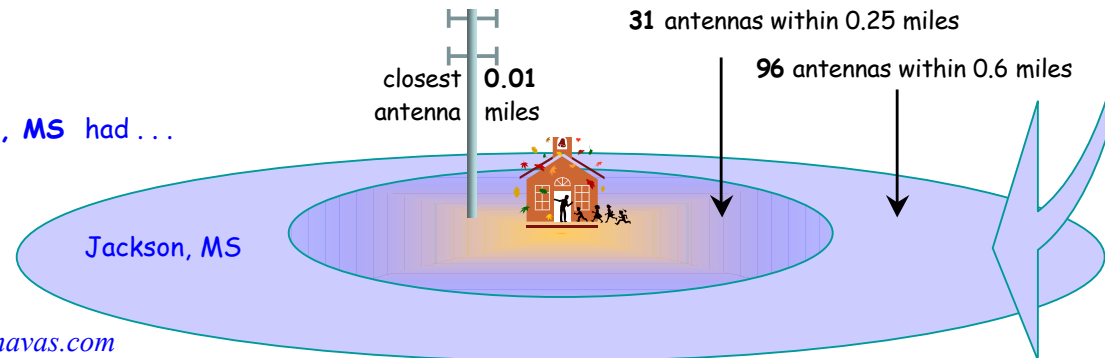
The Worst BRAG™ Schools found in Jackson, MS had ...

- Closest antenna to a school - 0.01 miles away!
- Antennas within 0.25 miles - 31 antennas!
- Antennas within 0.6 miles - 96 antennas!

Find your favorite school.



closest antenna 0.01 miles  
31 antennas within 0.25 miles  
96 antennas within 0.6 miles





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

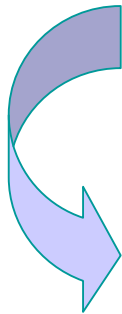
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

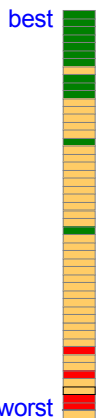
## Montgomery, Alabama

BRAG™ Antenna Ranking of Schools

### Grade for Montgomery



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Ranked **6<sup>th</sup>** State Capitol!



Silver Star

**Montgomery can BRAG!**



Most schools in Montgomery, AL: BRAG™ GREEN

Of the 68 schools in Montgomery, AL surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (56% of the schools) fell in the lowest exposure category or BRAG™ green, 38% were classified as amber, 3% as red and 3% as black.



Montgomery Overall Grade: 82%

Antennas near schools in Montgomery, AL generated a composite BRAG™ grade for this state capitol of 82%, ranking Montgomery the 6<sup>th</sup> best school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Montgomery.



Worst School Cases found in Montgomery, AL:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.06 miles (~100 meters); 44 antennas within 0.25 miles (~400 meters); or 149 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)





# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

6

State Capitol Ranking



Silver Star Award!

Montgomery can BRAG!

Ranked 6<sup>th</sup> BEST U.S. state capitol.

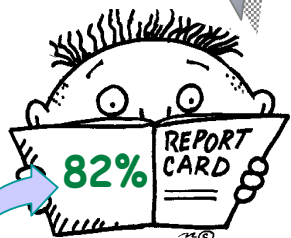
## Montgomery, Alabama

BRAG™ Antenna Ranking of Schools

82%



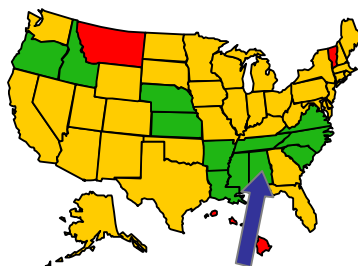
State Capitol Grade



Grade-Montgomery

Composite Grade

0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on a) the closest antenna to schools, b) the number of antennas within 0.25 miles, & c) the number of antennas within 0.6 miles.

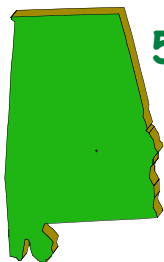
Antennas

most	●	B	Black
more	●	R	Red
some	●	A	Amber
few	●	G	Green

GREEN



State Capitol Color Code

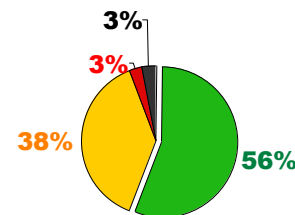


56%

Montgomery Color Code: BRAG™ GREEN

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (56%) in Montgomery, AL are in the lowest exposure category (BRAG™ green) and fewer than 10% of the schools are in the two highest categories (BRAG™ red & black).

Montgomery, AL (68 schools)



## ATTENTION NEEDED!

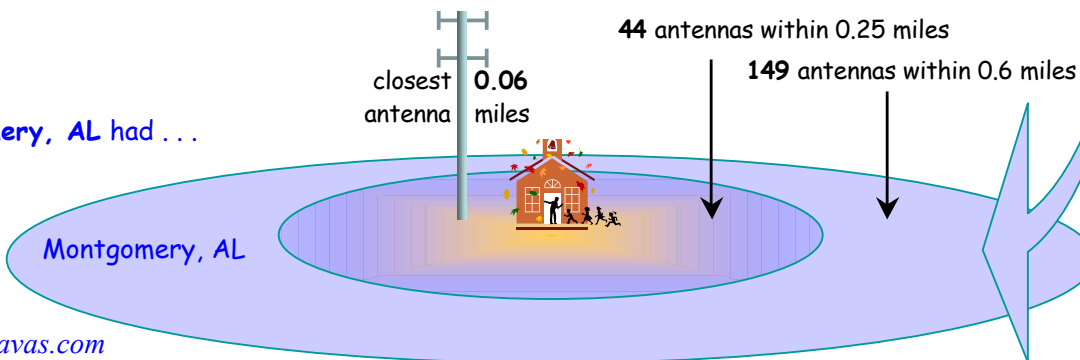


Worst Cases!

The Worst BRAG™ Schools found in Montgomery, AL had ...

- Closest antenna to a school - 0.06 miles away!
- Antennas within 0.25 miles - 44 antennas!
- Antennas within 0.6 miles - 149 antennas!

Find your favorite school.





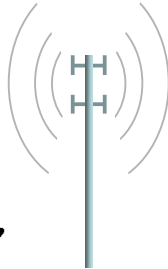
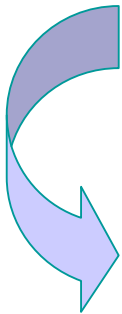
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

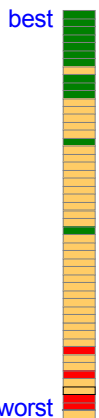
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Lincoln, Nebraska BRAG™ Antenna Ranking of Schools

### Grade for Lincoln



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Ranked  
**7th**  
State Capitol!



Silver Star

**Lincoln can BRAG!**



**Most schools in Lincoln, NE: BRAG™ GREEN**

Of the 86 schools in Lincoln, NE surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (53% of the schools) fell in the lowest exposure category or BRAG™ green, 41% were classified as amber, 3% as red and 2% as black.



**Lincoln Overall Grade: 82%**

Antennas near schools in Lincoln, NE generated a composite BRAG™ grade for this state capitol of 82%, ranking Lincoln the 7th best school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Lincoln.



**Worst School Cases found in Lincoln, NE:**

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.02 miles (~30 meters); 50 antennas within 0.25 miles (~400 meters); or 112 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



**What you can do:**

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

7

State Capitol Ranking



Silver Star Award!

Lincoln can BRAG!

Ranked 7<sup>th</sup> U.S. state capitol.

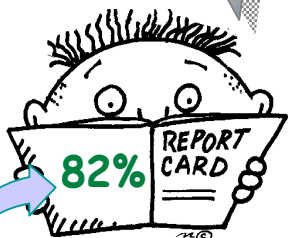
## Lincoln, Nebraska

BRAG™ Antenna Ranking of Schools

82%



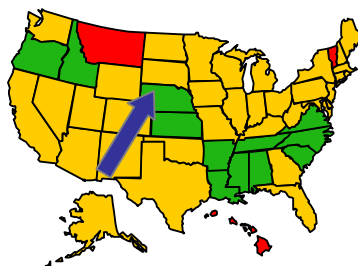
State Capitol Grade



Grade-Lincoln

Composite Grade

0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on a) the closest antenna to schools, b) the number of antennas within 0.25 miles, & c) the number of antennas within 0.6 miles.

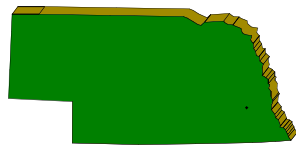
Antennas

most	●	B	Black
more	●	R	Red
some	●	A	Amber
few	●	G	Green

GREEN



State Capitol Color Code

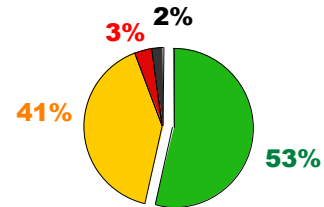


53%

Lincoln Color Code: BRAG™ GREEN

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (53%) in Lincoln, NE are in the lowest exposure category (BRAG™ green) and fewer than 10% of the schools are in the two highest categories (BRAG™ red & black).

Lincoln, NE (86 schools)



## ATTENTION NEEDED!



Worst Cases!

The Worst BRAG™ Schools found in Lincoln, NE had ...

- Closest antenna to a school - 0.02 miles away!
- Antennas within 0.25 miles - 50 antennas!
- Antennas within 0.6 miles - 112 antennas!

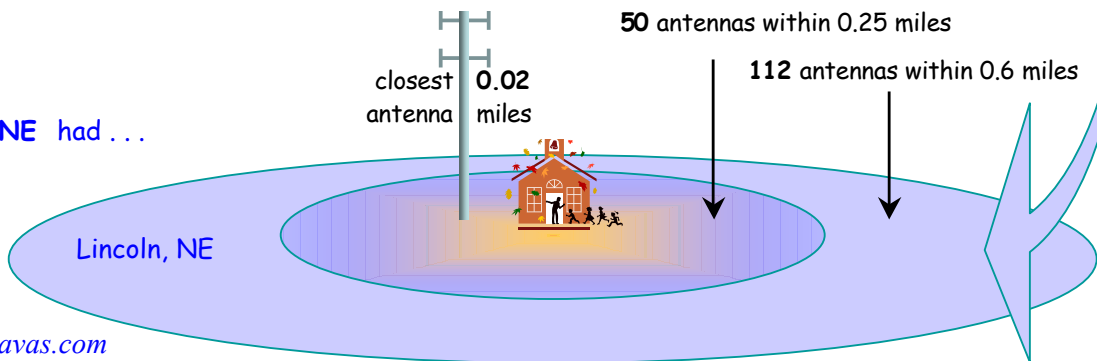
Find your favorite school.



closest antenna 0.02 miles

50 antennas within 0.25 miles

112 antennas within 0.6 miles





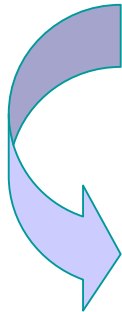
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

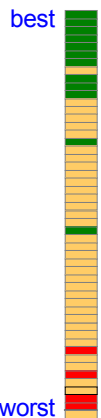
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Olympia, Washington BRAG™ Antenna Ranking of Schools

### Grade for Olympia



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



Ranked  
**8th**

State Capitol!



Silver Star

Olympia can BRAG!



Most schools in Olympia, WA: BRAG™ **AMBER**

Of the 33 schools in Olympia, WA surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (48% of the schools) fell in the 2nd lowest exposure category or BRAG™ **amber**, 3% were classified as **red**, 0% as **black**, and 48% as **green**.



Olympia Overall Grade: 82%

Antennas near schools in Olympia, WA generated a composite BRAG™ grade for this state capitol of 82% ranking Olympia the 8<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Olympia.



Worst School Cases found in Olympia, WA:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.04 miles (~60 meters); 4 antennas within 0.25 miles (~400 meters); or 40 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

8

State Capitol Ranking



Silver Star Award!

Olympia can BRAG!

Ranked 8<sup>th</sup> U.S. state capitol.

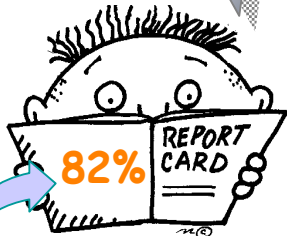
## Olympia, Washington

BRAG™ Antenna Ranking of Schools

82%



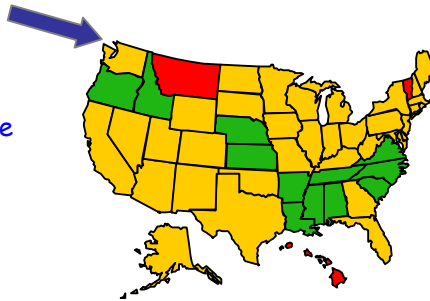
State Capitol Grade



Grade-Olympia

### Composite Grade

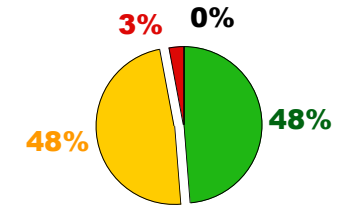
0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on a) the closest antenna to schools, b) the number of antennas within 0.25 miles, & c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

### Olympia, WA (33 schools)



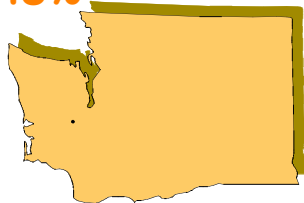
### Olympia Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (48%) in Olympia, WA are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 5% of the schools are in the two highest categories (BRAG™ red & black).

AMBER 48%



State Capitol Color Code



## ATTENTION NEEDED!

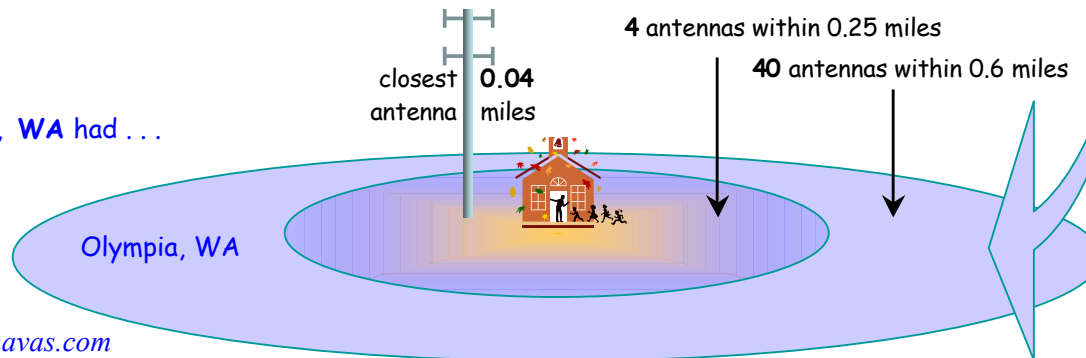


Worst Cases!

The Worst BRAG™ Schools found in Olympia, WA had ...

- Closest antenna to a school - 0.04 miles away!
- Antennas within 0.25 miles - 4 antennas!
- Antennas within 0.6 miles - 40 antennas!

[Find your favorite school.](#)







It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

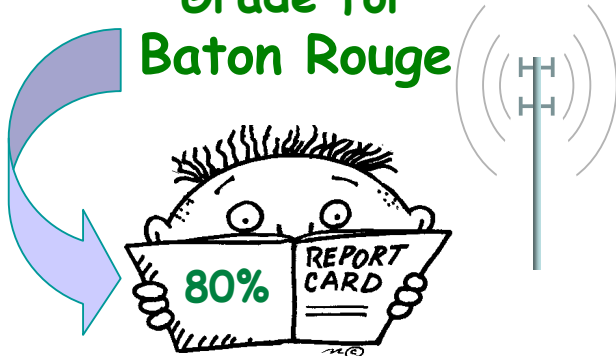
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

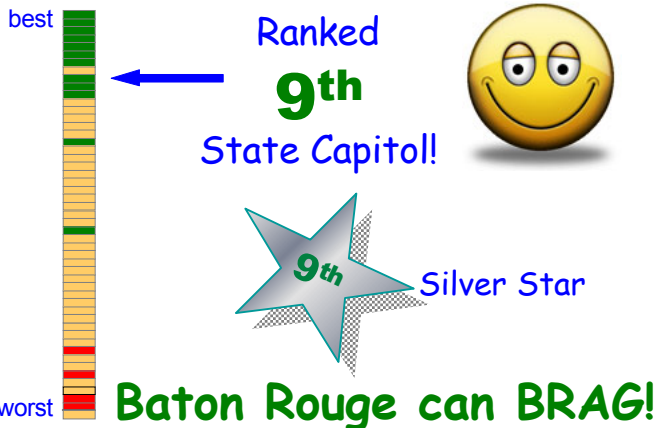
## Baton Rouge, Louisiana

BRAG™ Antenna Ranking of Schools

### Grade for Baton Rouge



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



### Most schools in Baton Rouge, LA: BRAG™ GREEN

Of the 123 schools in Baton Rouge, LA surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (54% of the schools) fell in the lowest exposure category or BRAG™ green, 37% were classified as amber, 7% as red and 3% as black.



### Baton Rouge Overall Grade: 80%

Antennas near schools in Baton Rouge, LA generated a composite BRAG™ grade for this state capitol of 80%, ranking Baton Rouge the 9th best school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Baton Rouge.



### Worst School Cases found in Baton Rouge, LA:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.03 miles (~50 meters); 83 antennas within 0.25 miles (~400 meters); or 164 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

9

State Capitol Ranking



Silver Star Award!

Baton Rouge can BRAG!

Ranked 9th U.S. state capitol.

## Baton Rouge, Louisiana

BRAG™ Antenna Ranking of Schools

80%



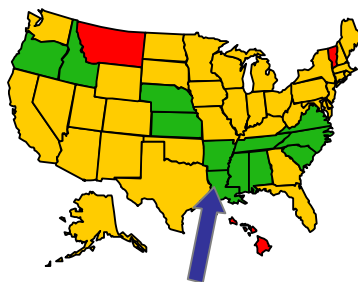
State Capitol Grade



Grade-Baton Rouge

Composite Grade

0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on a) the closest antenna to schools, b) the number of antennas within 0.25 miles, & c) the number of antennas within 0.6 miles.

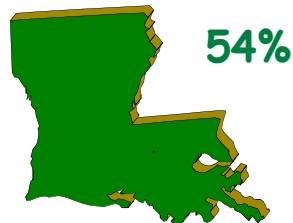
Antennas

most	●	B	Black
more	●	R	Red
some	●	A	Amber
few	●	G	Green

GREEN



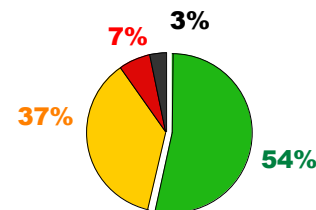
State Capitol Color Code



Baton Rouge Color Code: BRAG™ GREEN

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (54%) in Baton Rouge, LA are in the lowest exposure category (BRAG™ green) and fewer than 10% of the schools are in the two highest categories (BRAG™ red & black).

Baton Rouge, LA (123 schools)



## ATTENTION NEEDED!

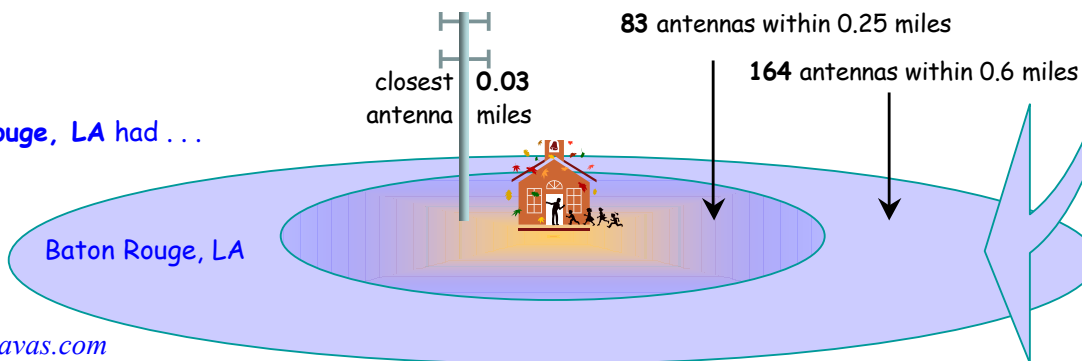


Worst Cases!

The Worst BRAG™ Schools found in Baton Rouge, LA had ...

- Closest antenna to a school - 0.03 miles away!
- Antennas within 0.25 miles - 83 antennas!
- Antennas within 0.6 miles - 164 antennas!

Find your favorite school.





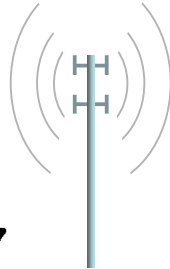
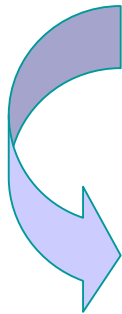
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

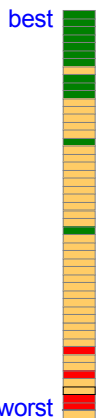
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Salem, Oregon BRAG™ Antenna Ranking of Schools

### Grade for Salem



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Ranked **10<sup>th</sup>** State Capitol!



Silver Star

**Salem can BRAG!**



### Most schools in Salem, OR: BRAG™ GREEN

Of the 84 schools in Salem, OR surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (61% of the schools) fell in the lowest exposure category or BRAG™ green, 25% were classified as amber, 7% as red and 7% as black.



### Salem Overall Grade: 80%

Antennas near schools in Salem, OR generated a composite BRAG™ grade for this state capitol of 80%, ranking Salem the 10<sup>th</sup> best school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Salem.



### Worst School Cases found in Salem, OR:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0 miles (<15 meters); 40 antennas within 0.25 miles (~400 meters); or 108 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)





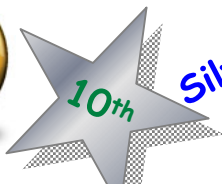
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 10

State Capitol Ranking



Silver Star Award!

Salem can BRAG!

Ranked 10th U.S. state capitol.

## Salem, Oregon

BRAG™ Antenna Ranking of Schools

# 80%



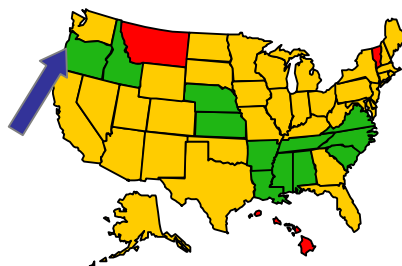
State Capitol Grade



Grade-Salem

### Composite Grade

0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on a) the closest antenna to schools, b) the number of antennas within 0.25 miles, & c) the number of antennas within 0.6 miles.

Antennas

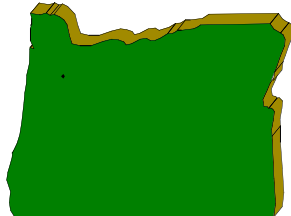
most	●	B	Black
more	●	R	Red
some	●	A	Amber
few	●	G	Green

# GREEN



State Capitol Color Code

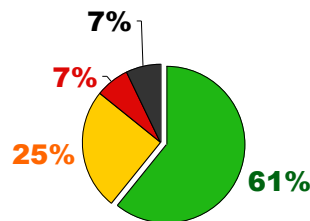
# 61%



### Salem Color Code: BRAG™ GREEN

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (61%) in Salem, OR are in the lowest exposure category (BRAG™ green) and fewer than 15% of the schools are in the two highest categories (BRAG™ red & black).

### Salem, OR (84 schools)



## ATTENTION NEEDED!



Worst Cases!

The Worst BRAG™ Schools found in Salem, OR had ...

- Closest antenna to a school - 0 miles away!
- Antennas within 0.25 miles - 40 antennas!
- Antennas within 0.6 miles - 108 antennas!

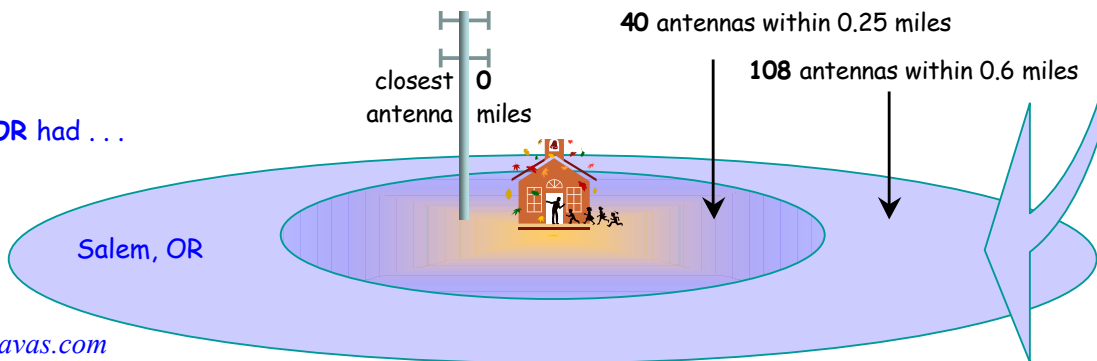
Find your favorite school.



closest antenna 0 miles

40 antennas within 0.25 miles

108 antennas within 0.6 miles





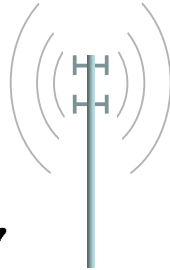
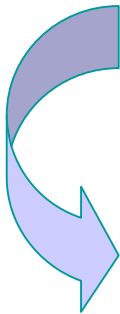
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

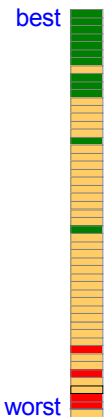
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Topeka, Kansas BRAG™ Antenna Ranking of Schools

### Grade for Topeka



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



### Topeka can BRAG!

Ranked  
**11<sup>th</sup>**

State Capitol!



Silver Star



### Most schools in Topeka, KS: BRAG™ GREEN

Of the 59 schools in Topeka, KS surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority **47%** of the schools) fell in the **lowest** exposure category or BRAG™ green, **44%** were classified as **amber**, **8%** as **red** and **0%** as **black**.



### Topeka Overall Grade: 80%

Antennas near schools in Topeka, KS generated a composite BRAG™ grade for this state capitol of **80%**, ranking Topeka the **11<sup>th</sup> best school district** among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of **individual schools** in Topeka.



### Worst School Cases found in Topeka, KS:

The schools with the **highest potential microwave exposures** (from external sources) had an antenna within **0.03 miles (~50 meters)**; **14 antennas** within **0.25 miles (~400 meters)**; or **94 antennas** within **0.6 miles (~1 km)**. The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by **antennas near school property** but also by **wireless technologies inside school buildings**. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 11

State Capitol Ranking



Silver Star Award!

Topeka can BRAG!

Ranked 11<sup>th</sup> U.S. state capitol.

## Topeka, Kansas

BRAG™ Antenna Ranking of Schools

# 80%



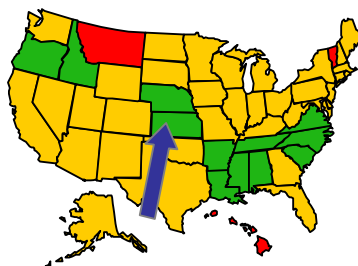
State Capitol Grade



Grade-Topeka

### Composite Grade

0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on a) the closest antenna to schools, b) the number of antennas within 0.25 miles, & c) the number of antennas within 0.6 miles.

Antennas

most	●	B	Black
more	●	R	Red
some	●	A	Amber
few	●	G	Green

# GREEN



State Capitol Color Code

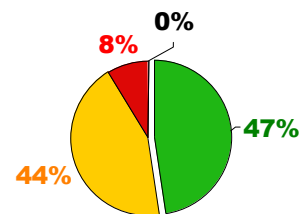
# 47%



### Topeka Color Code: BRAG™ GREEN

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (47%) in Topeka, KS are in the lowest exposure category (BRAG™ green) and fewer than 10% of the schools are in the two highest categories (BRAG™ red & black).

### Topeka, KS (59 schools)



## ATTENTION NEEDED!



Worst Cases!

The Worst BRAG™ Schools found in Topeka, KS had ...

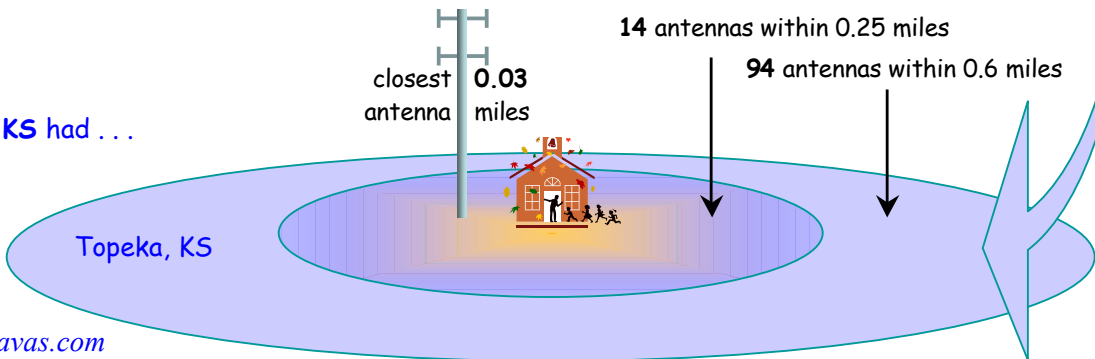
- Closest antenna to a school - 0.03 miles away!
- Antennas within 0.25 miles - 14 antennas!
- Antennas within 0.6 miles - 94 antennas!

Find your favorite school.

closest antenna 0.03 miles

14 antennas within 0.25 miles

94 antennas within 0.6 miles





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

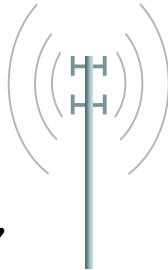
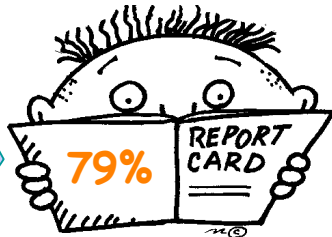
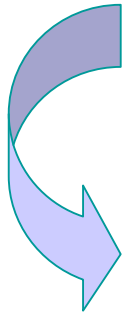
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

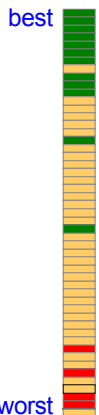
## Sacramento, California

BRAG™ Antenna Ranking of Schools

### Grade for Sacramento



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Ranked **12<sup>th</sup>** State Capitol!



**Sacramento can't BRAG!**



### Most schools in Sacramento, CA: BRAG™ AMBER

Of the 260 schools in Capitol, ST surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (47% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 7% were classified as red, 1% as black, and 45% as green.



### Sacramento Overall Grade: 79%

Antennas near schools in Sacramento, CA generated a composite BRAG™ grade for this state capitol of 79% ranking Sacramento the 12<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Sacramento.



### Worst School Cases found in Sacramento, CA:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.01 miles (~15 meters); 18 antennas within 0.25 miles (~400 meters); or 158 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 12

State Capitol Ranking



## Sacramento can't BRAG!

Ranked **12<sup>th</sup>** U.S. state capitol.

## Sacramento, California

### BRAG™ Antenna Ranking of Schools

# 79%



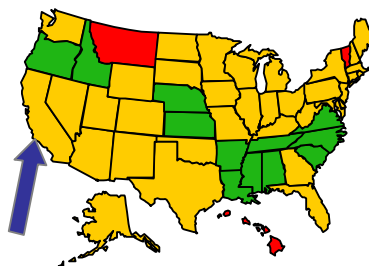
State Capitol Grade



## Grade-Sacramento

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas

most	●	B	Black
more	●	R	Red
some	●	A	Amber
few	●	G	Green

# AMBER



State Capitol Color Code

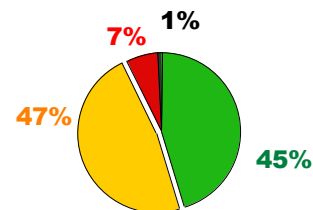


# 47%

### Sacramento Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (47%) in Sacramento, CA are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 10% of the schools are in the two highest categories (BRAG™ red & black).

Sacramento, CA (260 schools)



## ATTENTION NEEDED!



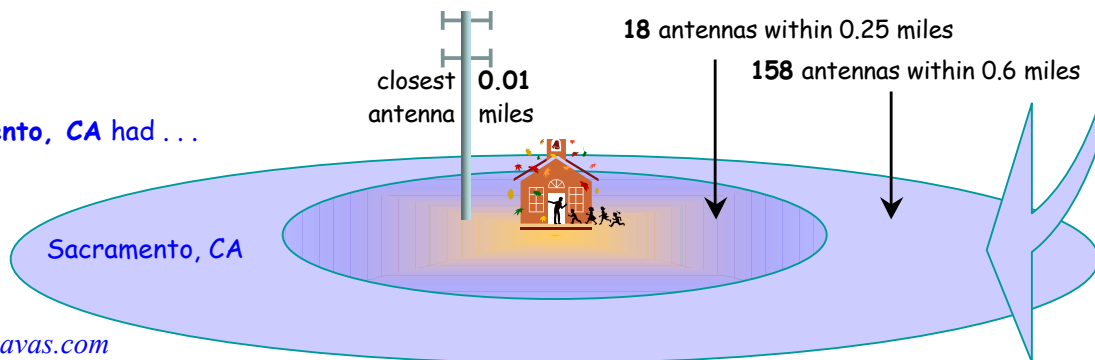
Worst Cases!

The Worst BRAG™ Schools found in Sacramento, CA had ...

- Closest antenna to a school - **0.01 miles** away!
- Antennas within 0.25 miles - **18 antennas!**
- Antennas within 0.6 miles - **158 antennas!**

[Find your favorite school.](#)

closest antenna 0.01 miles  
18 antennas within 0.25 miles  
158 antennas within 0.6 miles







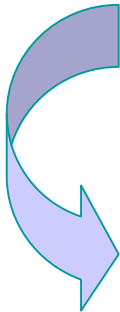
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

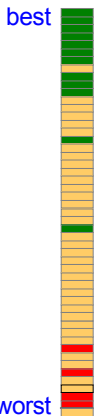
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Lansing, Michigan BRAG™ Antenna Ranking of Schools

### Grade for Lansing



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Ranked **13<sup>th</sup>** State Capitol!



**Lansing can't BRAG!**



Most schools in Lansing, MI: BRAG™ **AMBER**

Of the 67 schools in Lansing, MI surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (54% of the schools) fell in the 2nd lowest exposure category or BRAG™ **amber**, 6% were classified as **red**, 0% as **black**, and 40% as **green**.



Lansing Overall Grade: **78%**

Antennas near schools in Lansing, MI generated a composite BRAG™ grade for this state capitol of **78%** ranking Lansing the **13<sup>th</sup>** school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Lansing.



Worst School Cases found in Lansing, MI:

The schools with the highest potential microwave exposures (from external sources) had an antenna within **0.02 miles (~30 meters)**; **16 antennas within 0.25 miles (~400 meters)**; or **135 antennas within 0.6 miles (~1 km)**. The more antennas near schools the higher the potential exposure to microwave radiation.



What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 13

State Capitol Ranking



## Lansing can't BRAG!

Ranked **13<sup>th</sup>** U.S. state capitol.

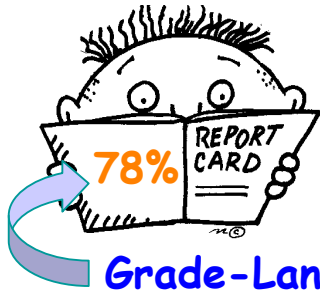
## Lansing, Michigan

### BRAG™ Antenna Ranking of Schools

# 78%



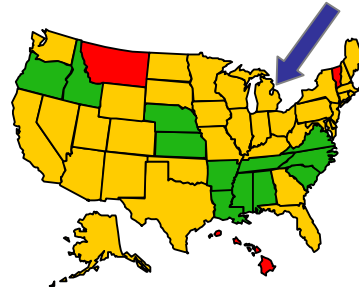
State Capitol Grade



## Grade-Lansing

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



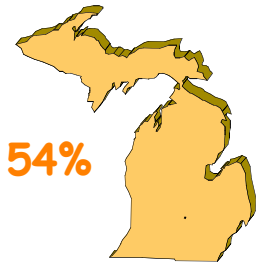
The **BRAG™ School Color Code** is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# AMBER



State Capitol Color Code

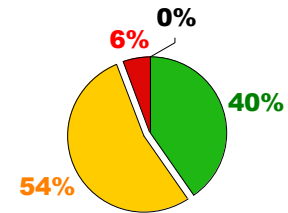


# 54%

### Lansing Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (54%) in Lansing, MI are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 10% of the schools are in the two highest categories (BRAG™ red & black).

### Lansing, MI (67 schools)



## ATTENTION NEEDED!

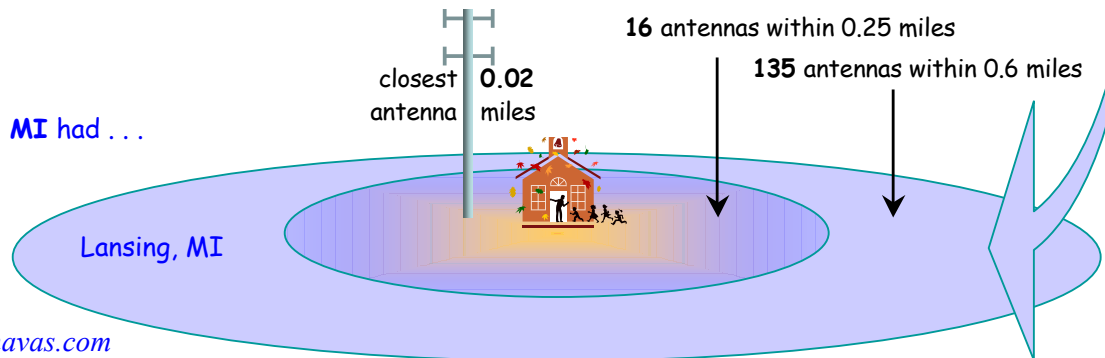


Worst Cases!

The **Worst BRAG™ Schools** found in Lansing, MI had ...

- Closest antenna to a school - **0.02 miles** away!
- Antennas within 0.25 miles - **16 antennas!**
- Antennas within 0.6 miles - **135 antennas!**

[Find your favorite school.](#)





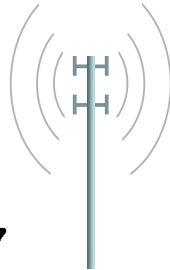
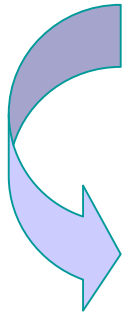
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

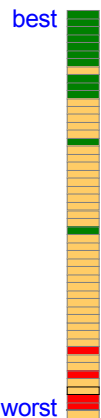
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Madison, Wisconsin BRAG™ Antenna Ranking of Schools

### Grade for Madison



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



Ranked  
**14<sup>th</sup>**  
State Capitoll



**Madison can't BRAG!**



### Most schools in Madison, WI: BRAG™ AMBER

Of the 67 schools in Madison, WI surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (54% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 4% were classified as red, 1% as black, and 40% as green.



### City Overall Grade: 78%

Antennas near schools in Madison, WI generated a composite BRAG™ grade for this state capitol of 78% ranking Madison the 14<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Madison.



### Worst School Cases found in Madison, WI:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.02 miles (~30 meters); 7 antennas within 0.25 miles (~400 meters); or 106 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

**14**

State Capitol Ranking



**Madison can't BRAG!**

Ranked **14<sup>th</sup>** U.S. state capitol.

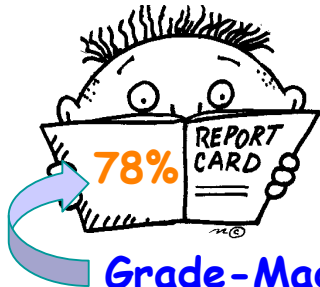
**Madison, Wisconsin**

*BRAG™ Antenna Ranking of Schools*

**78%**



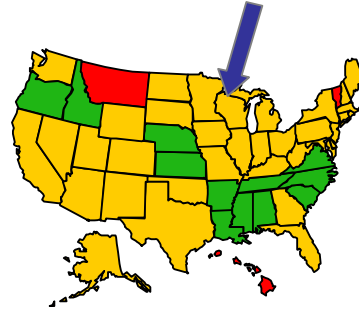
State Capitol Grade



**Grade-Madison**

**Composite Grade**

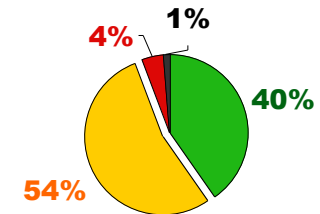
0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The **BRAG™ School Color Code** is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	<b>B</b>	<b>Black</b>
	more	●	<b>R</b>	<b>Red</b>
	some	●	<b>A</b>	<b>Amber</b>
	few	●	<b>G</b>	<b>Green</b>

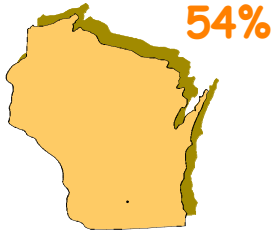
**Madison, WI (67 schools)**



**AMBER**



State Capitol Color Code



**54%**

**Madison Color Code: BRAG™ AMBER**

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (**54%**) in **Madison, WI** are in the **2nd lowest exposure category (BRAG™ amber)** and fewer than **10%** of the schools are in the two highest categories (**BRAG™ red & black**).

**ATTENTION NEEDED!**

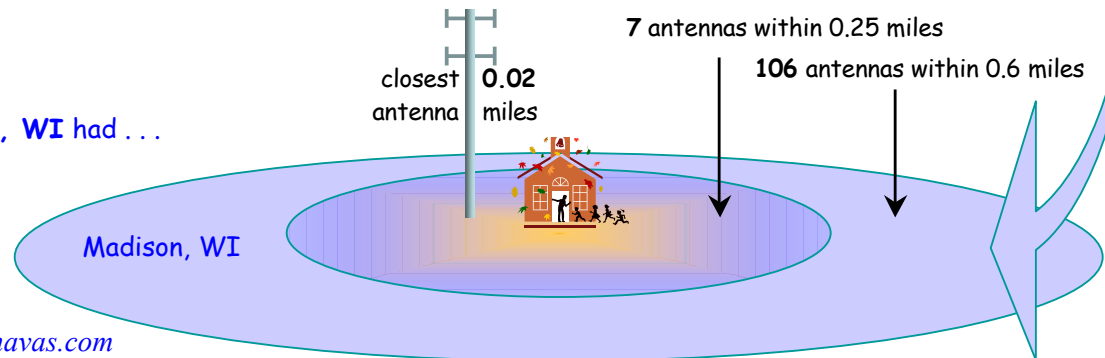


Worst Cases!

The **Worst BRAG™ Schools** found in **Madison, WI** had . . .

- Closest antenna to a school - **0.02 miles** away!
- Antennas within 0.25 miles - **7 antennas!**
- Antennas within 0.6 miles - **106 antennas!**

[Find your favorite school.](#)





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

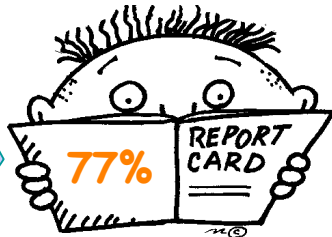
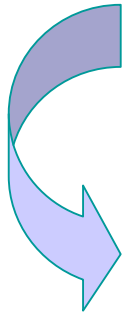
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

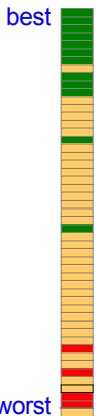
## Columbus, Ohio

BRAG™ Antenna Ranking of Schools

### Grade for Columbus



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Ranked  
**15<sup>th</sup>**  
State Capitol!



**Columbus can't BRAG!**



### Most schools in Columbus, OH: BRAG™ AMBER

Of the 476 schools in Columbus, OH surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (54% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 6% were classified as red, 1% as black, and 39% as green.



### Columbus Overall Grade: 77%

Antennas near schools in Columbus, OH generated a composite BRAG™ grade for this state capitol of 77% ranking Columbus the 15<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Columbus.



### Worst School Cases found in Columbus, OH:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.01 miles (~15 meters); 252 antennas within 0.25 miles (~400 meters); or 414 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 15

State Capitol Ranking



## Columbus can't BRAG!

Ranked **15<sup>th</sup>** U.S. state capitol.

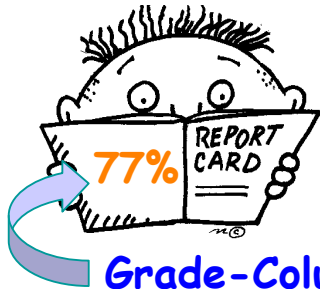
## Columbus, Ohio

### BRAG™ Antenna Ranking of Schools

# 77%



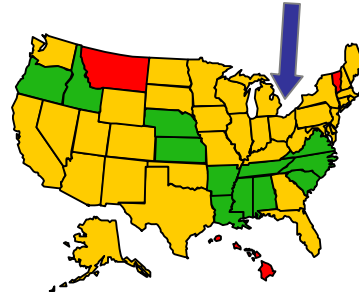
State Capitol Grade



## Grade-Columbus

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# AMBER



State Capitol Color Code

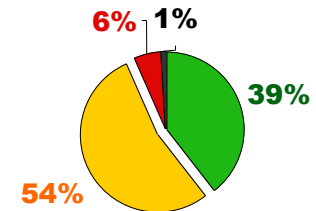


# 54%

### Columbus Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (54%) in Columbus, OH are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 10% of the schools are in the two highest categories (BRAG™ red & black).

Columbus, OH (476 schools)



## ATTENTION NEEDED!

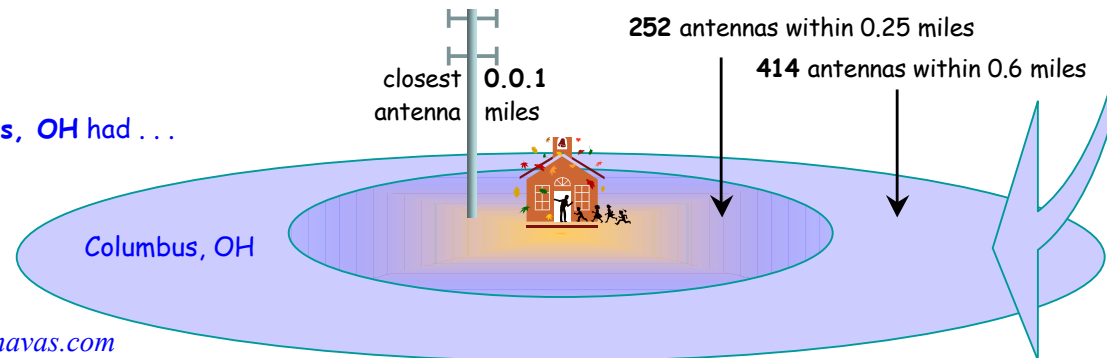


Worst Cases!

The Worst BRAG™ Schools found in Columbus, OH had ...

- Closest antenna to a school - 0.01 miles away!
- Antennas within 0.25 miles - 252 antennas!
- Antennas within 0.6 miles - 414 antennas!

Find your favorite school.





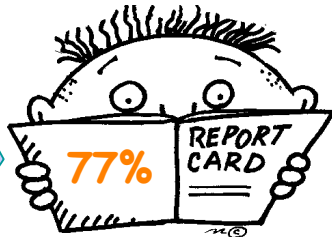
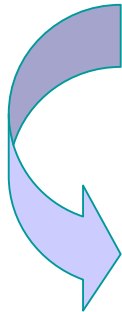
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

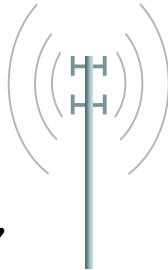
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Annapolis, Maryland BRAG™ Antenna Ranking of Schools

### Grade for Annapolis



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



best  
worst



### Annapolis can't BRAG!



### Most schools in Annapolis, MD: BRAG™ AMBER

Of the 42 schools in Annapolis, MD surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (55% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 7% were classified as red, 0% as black, and 38% as green.



### Annapolis Overall Grade: 77%

Antennas near schools in Annapolis, MD generated a composite BRAG™ grade for this state capitol of 77% ranking Annapolis the 16<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Annapolis.



### Worst School Cases found in Annapolis, MD:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.02 miles (~30 meters); 9 antennas within 0.25 miles (~400 meters); or 38 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 16

State Capitol Ranking



## Annapolis can't BRAG!

Ranked **16<sup>th</sup>** U.S. state capitol.

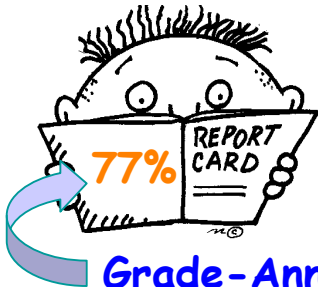
## Annapolis, Maryland

### BRAG™ Antenna Ranking of Schools

# 77%



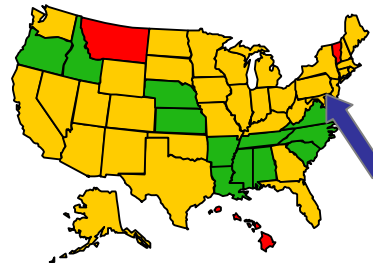
State Capitol Grade



## Grade - Annapolis

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



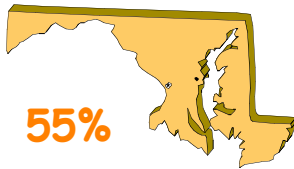
The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# AMBER



State Capitol Color Code

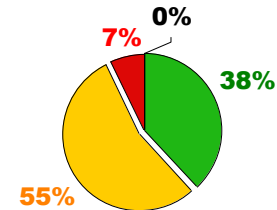


# 55%

### Annapolis Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (55%) in Annapolis, MD are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 10% of the schools are in the two highest categories (BRAG™ red & black).

### Annapolis, MD (42 schools)



## ATTENTION NEEDED!



Worst Cases!

The Worst BRAG™ Schools found in Annapolis, MD had ...

- Closest antenna to a school - **0.02 miles** away!
- Antennas within 0.25 miles - **9 antennas!**
- Antennas within 0.6 miles - **38 antennas!**

[Find your favorite school.](#)

closest antenna 0.02 miles

9 antennas within 0.25 miles

38 antennas within 0.6 miles

Annapolis, MD





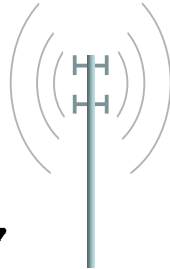
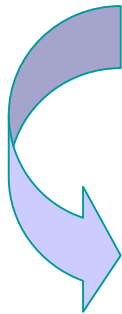
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

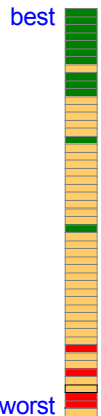
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Boise, Idaho BRAG™ Antenna Ranking of Schools

### Grade for Boise



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Boise can BRAG!

Ranked

17th

State Capitol!



Silver Star



### Most schools in Boise, ID: BRAG™ GREEN

Of the 74 schools in Boise, ID surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (46% of the schools) fell in the lowest exposure category or BRAG™ green, 41% were classified as amber, 12% as red and 1% as black.



### Boise Overall Grade: 77%

Antennas near schools in Boise, ID generated a composite BRAG™ grade for this state capitol of 77%, ranking Boise the 17th best school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Boise.



### Worst School Cases found in Boise, ID:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.01 miles (~15 meters); 17 antennas within 0.25 miles (~400 meters); or 117 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 17

State Capitol Ranking



Silver Star Award!

Boise can BRAG!

Ranked 17<sup>th</sup> U.S. state capitol.

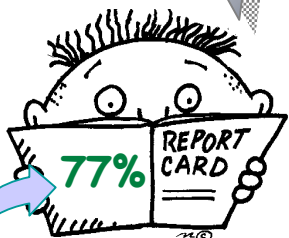
## Boise, Idaho

BRAG™ Antenna Ranking of Schools

# 77%



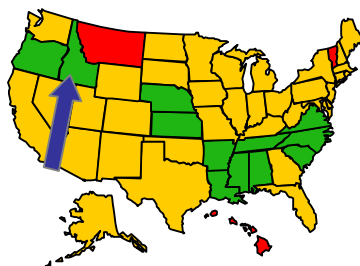
State Capitol Grade



Grade-Boise

### Composite Grade

0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on a) the closest antenna to schools, b) the number of antennas within 0.25 miles, & c) the number of antennas within 0.6 miles.

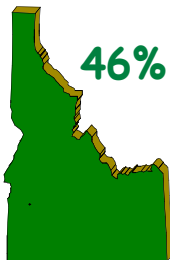
Antennas

most	●	B	Black
more	●	R	Red
some	●	A	Amber
few	●	G	Green

# GREEN



State Capitol Color Code

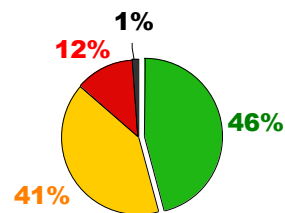


46%

### Boise Color Code: BRAG™ GREEN

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (46%) in Boise, ID are in the lowest exposure category (BRAG™ green) and fewer than 15% of the schools are in the two highest categories (BRAG™ red & black).

### Boise, ID (74 schools)



## ATTENTION NEEDED!

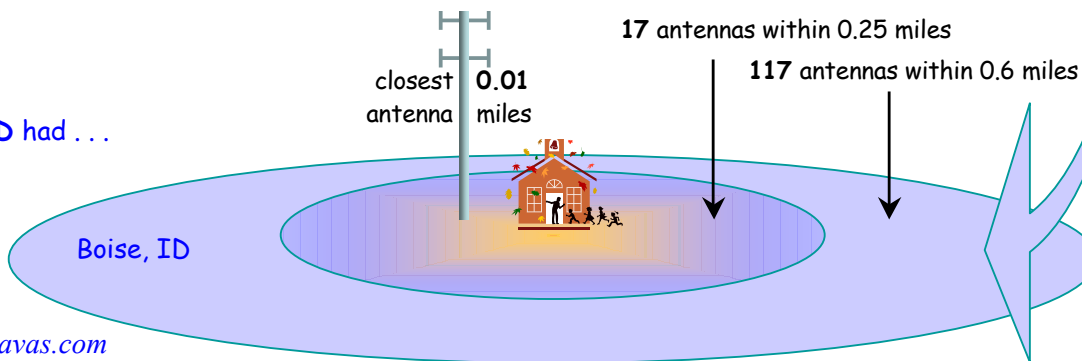


Worst Cases!

The Worst BRAG™ Schools found in Boise, ID had ...

- Closest antenna to a school - 0.01 miles away!
- Antennas within 0.25 miles - 17 antennas!
- Antennas within 0.6 miles - 117 antennas!

Find your favorite school.







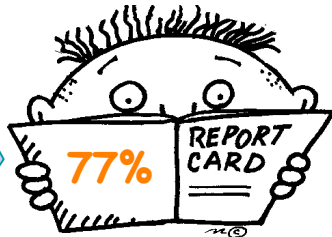
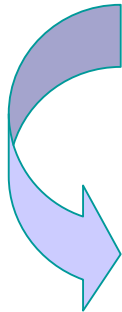
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

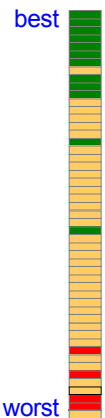
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Indianapolis, Indiana BRAG™ Antenna Ranking of Schools

### Grade for Indianapolis



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



Ranked  
**18<sup>th</sup>**  
State Capitol!



**Indianapolis can't BRAG!**



### Most schools in Indianapolis, IN: BRAG™ AMBER

Of the 504 schools in Indianapolis, IN surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (52% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 6% were classified as red, 2% as black, and 40% as green.



### Indianapolis Overall Grade: 77%

Antennas near schools in Indianapolis, IN generated a composite BRAG™ grade for this state capitol of 77% ranking Indianapolis the 18<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Indianapolis.



### Worst School Cases found in Indianapolis, IN:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0 miles (<15 meters); 134 antennas within 0.25 miles (~400 meters); or 469 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 18

State Capitol Ranking



## Indianapolis can't BRAG!

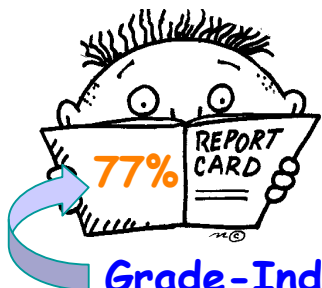
Ranked **18<sup>th</sup>** U.S. state capitol.

**Indianapolis, Indiana**  
BRAG™ Antenna Ranking of Schools

# 77%



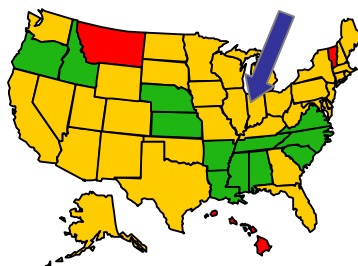
State Capitol Grade



## Grade-Indianapolis

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# AMBER



State Capitol Color Code

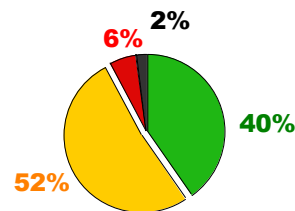


# 52%

### Indianapolis Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (52%) in Indianapolis, IN are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 10% of the schools are in the two highest categories (BRAG™ red & black).

Indianapolis, IN (504 schools)



## ATTENTION NEEDED!

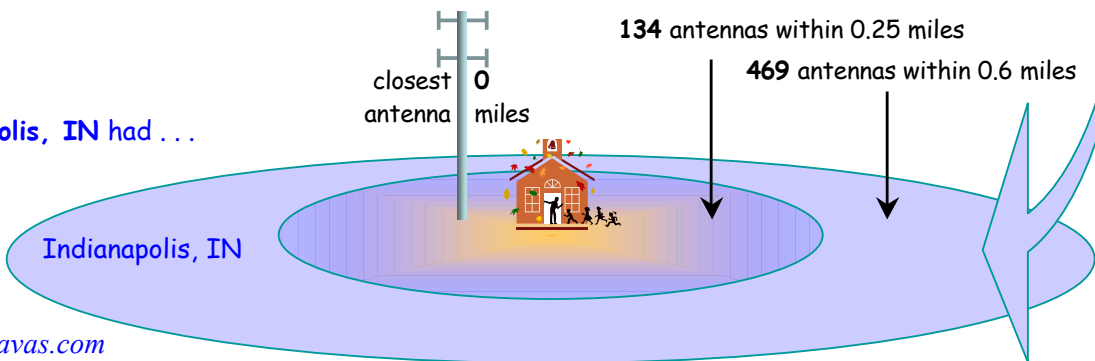


Worst Cases!

The Worst BRAG™ Schools found in Indianapolis, IN had ...

- Closest antenna to a school - **0 miles away!**
- Antennas within 0.25 miles - **134 antennas!**
- Antennas within 0.6 miles - **469 antennas!**

[Find your favorite school.](#)





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

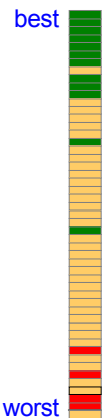
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Oklahoma City, Oklahoma BRAG™ Antenna Ranking of Schools

### Grade for Oklahoma City



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



Ranked  
**19th**

State Capitol!

Oklahoma City  
can't BRAG!



Most schools in Oklahoma City, OK: BRAG™ **AMBER**

Of the 155 schools in Oklahoma City, OK surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (52% of the schools) fell in the 2nd lowest exposure category or BRAG™ **amber**, 6% were classified as **red**, 2% as **black**, and 40% as **green**.



Oklahoma City Overall Grade: **77%**

Antennas near schools in Oklahoma City, OK generated a composite BRAG™ grade for this state capitol of 77% ranking Oklahoma City the 19th school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Oklahoma City.



Worst School Cases found in Oklahoma City, OK:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.01 miles (~15 meters); 26 antennas within 0.25 miles (~400 meters); or 209 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

**19**

State Capitol Ranking



Oklahoma City can't BRAG!

Ranked **19<sup>th</sup>** U.S. state capitol.

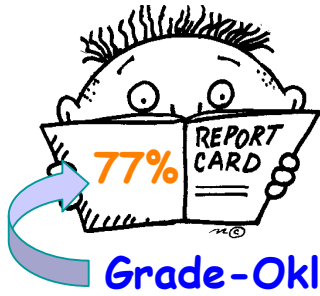
**Oklahoma City, Oklahoma**

BRAG™ Antenna Ranking of Schools

**77%**



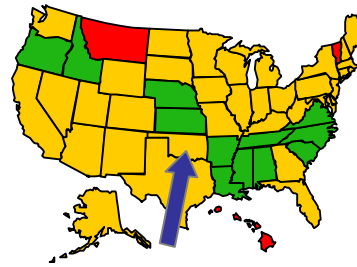
State Capitol Grade



Grade-Oklahoma City

**Composite Grade**

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

**AMBER**



State Capitol Color Code

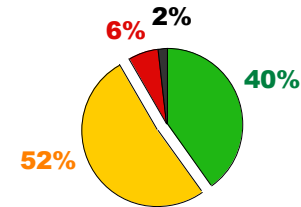
**52%**



Oklahoma City Color Code: BRAG™ **AMBER**

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (52%) in Oklahoma City, OK are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 10% of the schools are in the two highest categories (BRAG™ red & black).

Oklahoma City, OK (155 schools)



**ATTENTION NEEDED!**

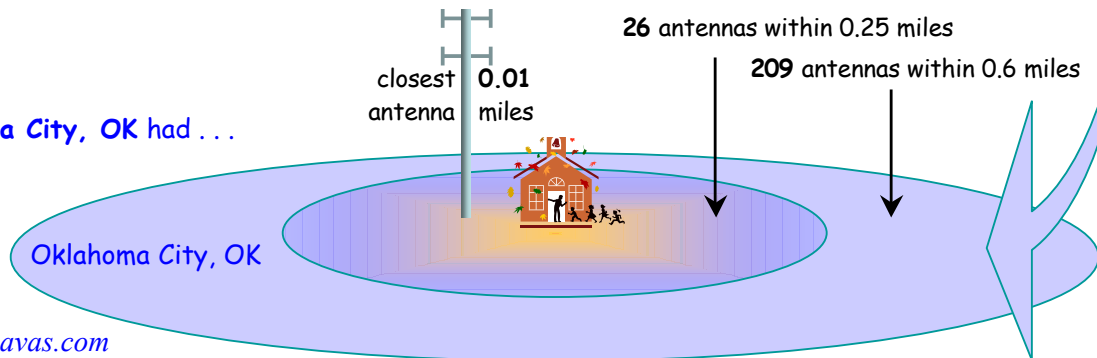


Worst Cases!

The Worst BRAG™ Schools found in Oklahoma City, OK had . . .

- Closest antenna to a school - **0.01 miles** away!
- Antennas within 0.25 miles - **26 antennas!**
- Antennas within 0.6 miles - **209 antennas!**

Find your favorite school.





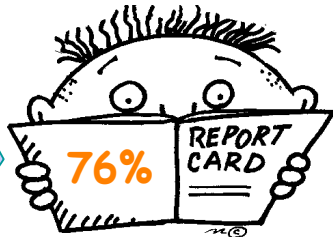
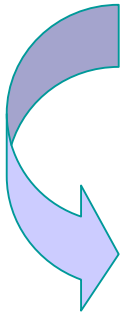
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

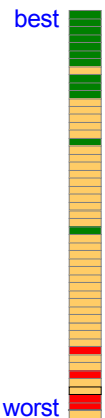
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Des Moines, Iowa BRAG™ Antenna Ranking of Schools

### Grade for Des Moines



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



Ranked  
**20<sup>th</sup>**  
State Capitol!



**Des Moines can't BRAG!**



### Most schools in Des Moines, IA: BRAG™ AMBER

Of the 76 schools in Des Moines, IA surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (49% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 5% were classified as red, 4% as black, and 42% as green.



### Des Moines Overall Grade: 76%

Antennas near schools in Des Moines, IA generated a composite BRAG™ grade for this state capitol of 76% ranking Des Moines the 20<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Des Moines.



### Worst School Cases found in Des Moines, IA:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.02 miles (~30 meters); 90 antennas within 0.25 miles (~400 meters); or 180 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## 20

State Capitol Ranking



### Des Moines can't BRAG!

Ranked **20<sup>th</sup>** U.S. state capitol.

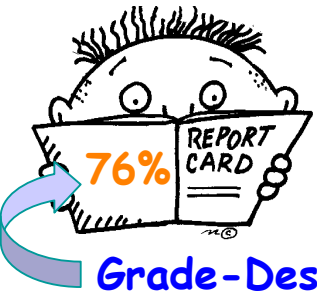
## Des Moines, Iowa

### BRAG™ Antenna Ranking of Schools

## 76%



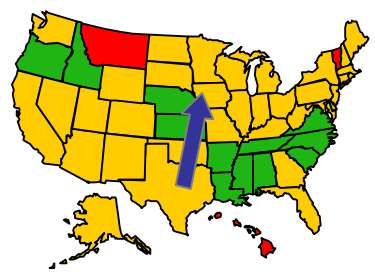
State Capitol Grade



### Grade-Des Moines

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



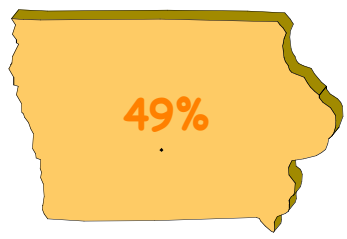
The **BRAG™ School Color Code** is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

## AMBER



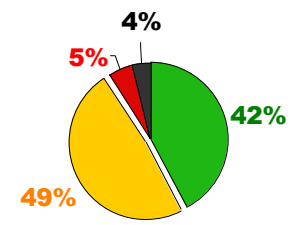
State Capitol Color Code



### Des Moines Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (49%) in **Des Moines, IA** are in the **2nd lowest exposure category (BRAG™ amber)** and fewer than 10% of the schools are in the two highest categories (**BRAG™ red & black**).

### Des Moines, IA (76 schools)



## ATTENTION NEEDED!

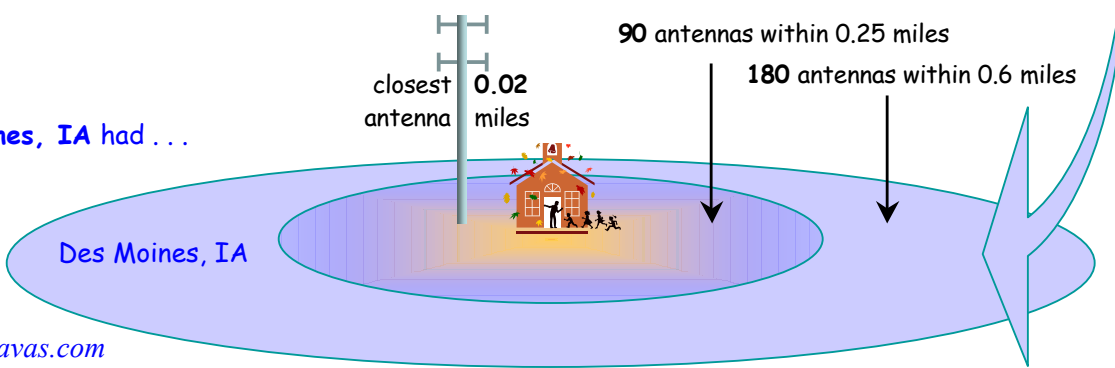


Worst Cases!

The **Worst BRAG™ Schools** found in **Des Moines, IA** had ...

- Closest antenna to a school - **0.02 miles** away!
- Antennas within 0.25 miles - **90 antennas!**
- Antennas within 0.6 miles - **180 antennas!**

[Find your favorite school.](#)





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

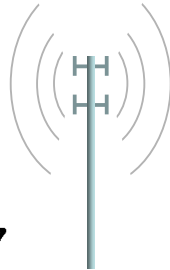
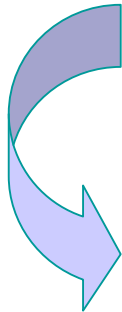
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

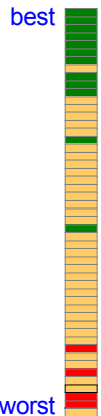
## Dover, Delaware

BRAG™ Antenna Ranking of Schools

### Grade for Dover



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Ranked 21<sup>st</sup>

State Capitol!



Dover can't BRAG!



Most schools in Dover, DE: BRAG™ AMBER

Of the 61 schools in Dover, DE surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (49% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 11% were classified as red, 0% as black, and 40% as green.



Dover Overall Grade: 76%

Antennas near schools in Dover, DE generated a composite BRAG™ grade for this state capitol of 76% ranking Dover the 21<sup>st</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Dover.



Worst School Cases found in Dover, DE:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.01 miles (~15 meters); 9 antennas within 0.25 miles (~400 meters); or 31 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 21

State Capitol Ranking



## Dover can't BRAG!

Ranked **21<sup>st</sup>** U.S. state capitol.

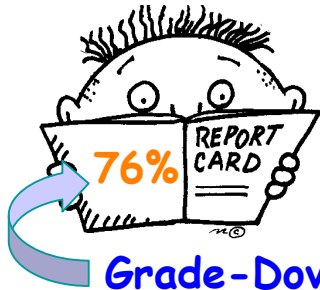
## Dover, Delaware

### BRAG™ Antenna Ranking of Schools

# 76%



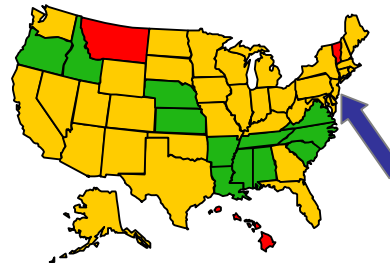
State Capitol Grade



## Grade-Dover

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

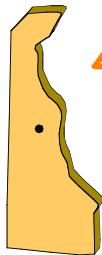
most	●	B	Black
more	●	R	Red
some	●	A	Amber
few	●	G	Green

Antennas

# AMBER



State Capitol Color Code

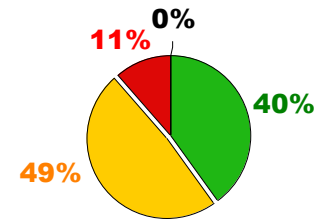


# 49%

### Dover Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (49%) in Dover, DE are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 15% of the schools are in the two highest categories (BRAG™ red & black).

### Dover, DE (61 schools)



## ATTENTION NEEDED!



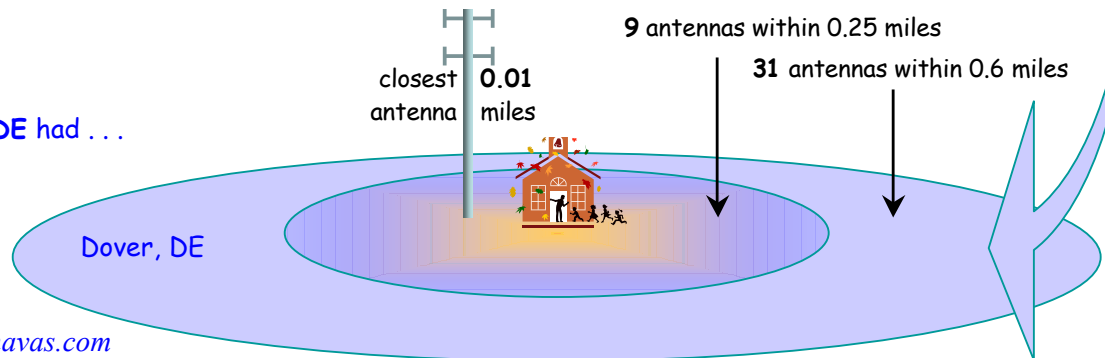
Worst Cases!

The Worst BRAG™ Schools found in Dover, DE had . . .

- Closest antenna to a school - **0.01 miles** away!
- Antennas within 0.25 miles - **9 antennas!**
- Antennas within 0.6 miles - **31 antennas!**

[Find your favorite school.](#)

closest antenna 0.01 miles  
9 antennas within 0.25 miles  
31 antennas within 0.6 miles





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Jefferson City, Missouri

BRAG™ Antenna Ranking of Schools

### Grade for Jefferson City



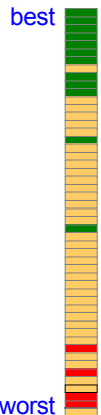
Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Ranked 22<sup>nd</sup>

State Capitol!

Jefferson City can't BRAG!



Most schools in Jefferson City, MO: BRAG™ AMBER

Of the 25 schools in Jefferson City, MO surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (44% of the schools) fell in the 2<sup>nd</sup> lowest exposure category or BRAG™ amber, 16% were classified as red, 0% as black, and 40% as green.



Jefferson City Overall Grade: 75%

Antennas near schools in Jefferson City, MO generated a composite BRAG™ grade for this state capitol of 75% ranking Jefferson City the 22<sup>nd</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Jefferson City.



Worst School Cases found in Jefferson City, MO:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.01 miles (~15 meters); 12 antennas within 0.25 miles (~400 meters); or 35 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 22

State Capitol Ranking



## Jefferson City can't BRAG!

Ranked **22<sup>nd</sup>** U.S. state capitol.

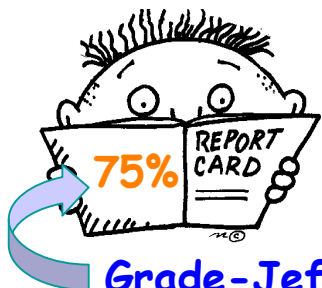
## Jefferson City, Missouri

BRAG™ Antenna Ranking of Schools

# 75%



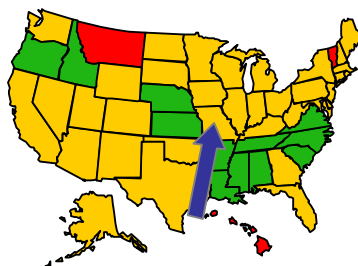
State Capitol Grade



## Grade-Jefferson City

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



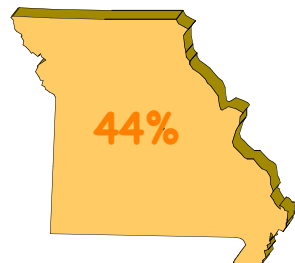
The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# AMBER



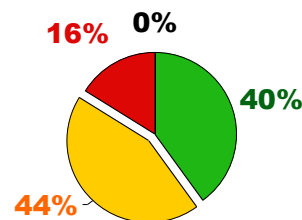
State Capitol Color Code



### Jefferson City Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (44%) in Jefferson City, MO are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 20% of the schools are in the two highest categories (BRAG™ red & black).

### Jefferson City, MO (25 schools)



## ATTENTION NEEDED!



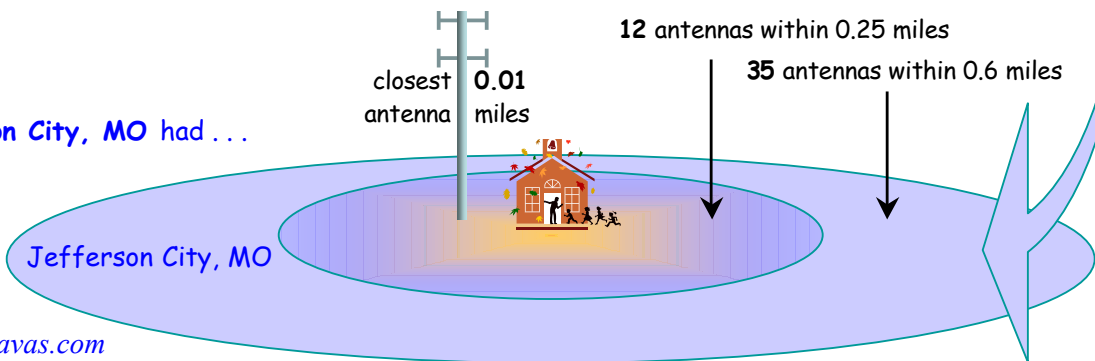
Worst Cases!

The Worst BRAG™ Schools found in Jefferson City, MO had . . .

- Closest antenna to a school - **0.01 miles** away!
- Antennas within 0.25 miles - **12 antennas!**
- Antennas within 0.6 miles - **35 antennas!**

[Find your favorite school.](#)

closest antenna **0.01** miles  
12 antennas within 0.25 miles  
35 antennas within 0.6 miles





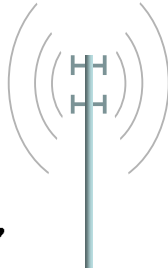
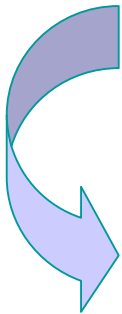
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

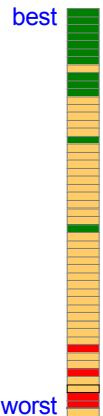
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Phoenix, Arizona BRAG™ Antenna Ranking of Schools

### Grade for Phoenix



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Ranked **23<sup>rd</sup>** State Capitol!



Phoenix can't BRAG!



### Most schools in Phoenix, AZ: BRAG™ AMBER

Of the 393 schools\* in Phoenix, AZ surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (62% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 5% were classified as red, 2% as black, and 32% as green. \*represents half of the schools in Phoenix.



### Phoenix Overall Grade: 74%

Antennas near schools in Phoenix, AZ generated a composite BRAG™ grade for this state capitol of 74% ranking Phoenix the 23<sup>rd</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Phoenix.



### Worst School Cases found in Phoenix, AZ:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0 miles (<15 meters); 49 antennas within 0.25 miles (~400 meters); or 390 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 23

State Capitol Ranking



## Phoenix can't BRAG!

Ranked **23<sup>rd</sup>** U.S. state capitol.

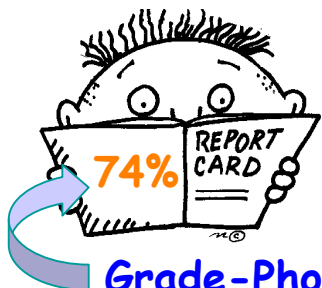
## Phoenix, Arizona

### BRAG™ Antenna Ranking of Schools

# 74%



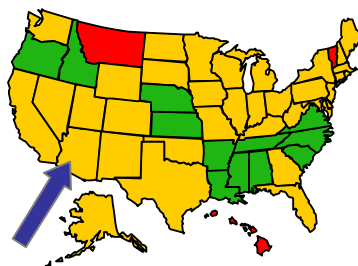
State Capitol Grade



## Grade-Phoenix

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

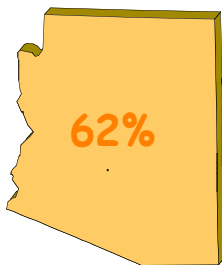
Antennas

most	●	B	Black
more	●	R	Red
some	●	A	Amber
few	●	G	Green

# AMBER



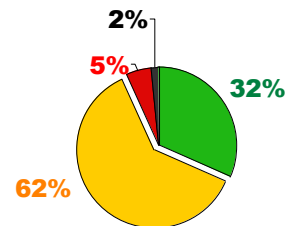
State Capitol Color Code



### Phoenix Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (62%) in Phoenix, AZ are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 10% of the schools are in the two highest categories (BRAG™ red & black). 393 schools represents half of the school in Phoenix.

### Phoenix, AZ (393 schools)



## ATTENTION NEEDED!



Worst Cases!

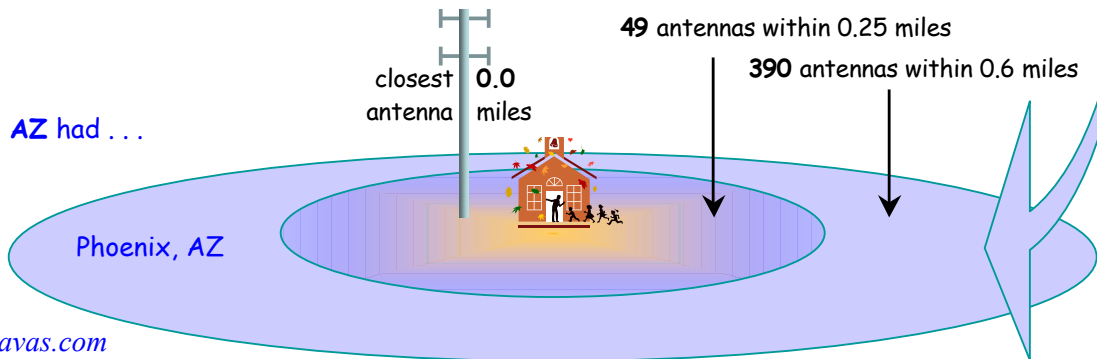
The Worst BRAG™ Schools found in Phoenix, AZ had ...

- Closest antenna to a school - **0 miles** away!
- Antennas within 0.25 miles - **49 antennas!**
- Antennas within 0.6 miles - **390 antennas!**

Find your favorite school.



closest antenna 0.0 miles  
49 antennas within 0.25 miles  
390 antennas within 0.6 miles







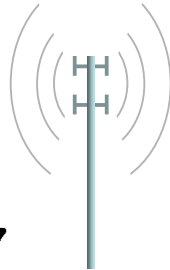
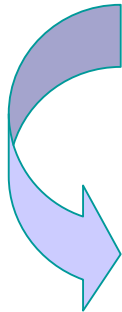
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

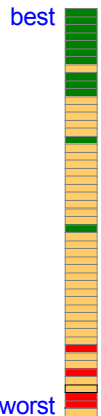
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Austin, Texas BRAG™ Antenna Ranking of Schools

### Grade for Austin



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



Ranked  
**24<sup>th</sup>**  
State Capitol!



**Austin can't BRAG!**



### Most schools in Austin, TX: BRAG™ AMBER

Of the 188 schools in Austin, TX surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (52% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 10% were classified as red, 2% as black, and 37% as green.



### Austin Overall Grade: 74%

Antennas near schools in Austin, TX generated a composite BRAG™ grade for this state capitol of 74% ranking Austin the 24<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Austin.



### Worst School Cases found in Austin, TX:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.02 miles (~30 meters); 111 antennas within 0.25 miles (~400 meters); or 274 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

**24**

State Capitol Ranking



**Austin can't BRAG!**

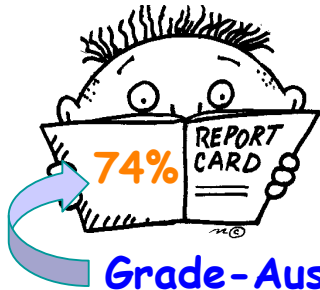
Ranked **24<sup>th</sup>** U.S. state capitol.

**Austin, Texas**  
BRAG™ Antenna Ranking of Schools

**74%**



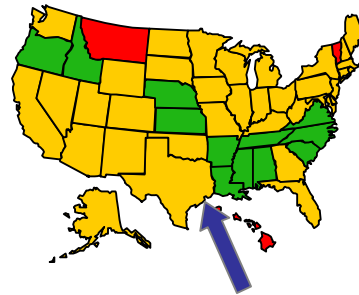
State Capitol Grade



**Grade - Austin**

**Composite Grade**

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The **BRAG™ School Color Code** is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

**AMBER**



State Capitol Color Code

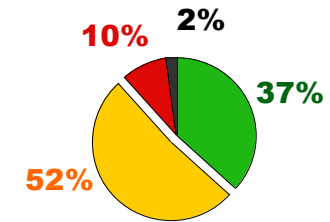


**52%**

**Austin Color Code: BRAG™ AMBER**

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (52%) in Austin, TX are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 15% of the schools are in the two highest categories (BRAG™ red & black).

**Austin, TX (188 schools)**



## ATTENTION NEEDED!

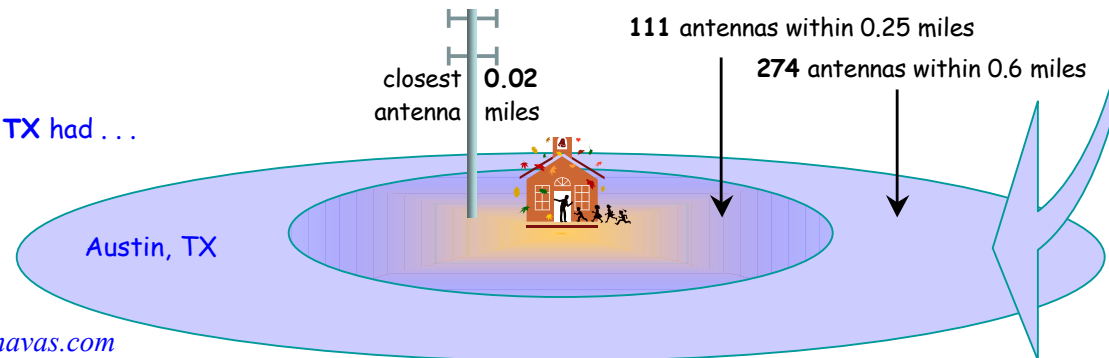


Worst Cases!

The **Worst BRAG™ Schools** found in Austin, TX had ...

- Closest antenna to a school - **0.02 miles** away!
- Antennas within 0.25 miles - **111 antennas!**
- Antennas within 0.6 miles - **274 antennas!**

[Find your favorite school.](#)







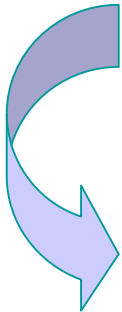
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

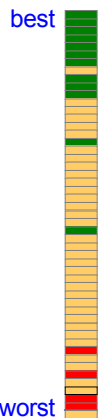
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Springfield, Illinois BRAG™ Antenna Ranking of Schools

### Grade for Springfield



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



Ranked  
**25<sup>th</sup>**  
State Capitol!



**Springfield can't BRAG!**



### Most schools in Springfield, IL: BRAG™ AMBER

Of the 63 schools in Springfield, IL surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (52% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 3% were classified as red, 6% as black, and 38% as green.



### Springfield Overall Grade: 74%

Antennas near schools in Springfield, IL generated a composite BRAG™ grade for this state capitol of 74% ranking Springfield the 25<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Springfield.



### Worst School Cases found in Springfield, IL:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.01 miles (~15 meters); 92 antennas within 0.25 miles (~400 meters); or 169 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## 25

State Capitol Ranking



### Springfield can't BRAG!

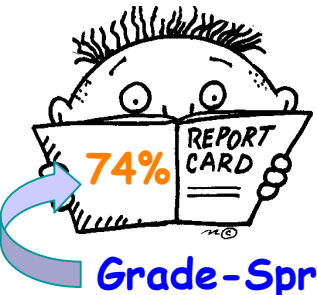
Ranked **25<sup>th</sup>** U.S. state capitol.

## Springfield, Illinois

### BRAG™ Antenna Ranking of Schools

## 74%

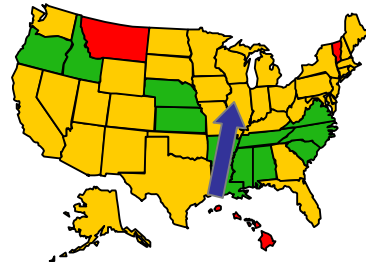
State Capitol Grade



### Grade-Springfield

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

## AMBER

State Capitol Color Code

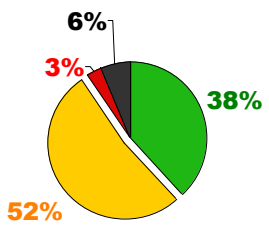


## 52%

### Springfield Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (52%) in Springfield, IL are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 10% of the schools are in the two highest categories (BRAG™ red & black).

### Springfield, IL (63 schools)



## ATTENTION NEEDED!

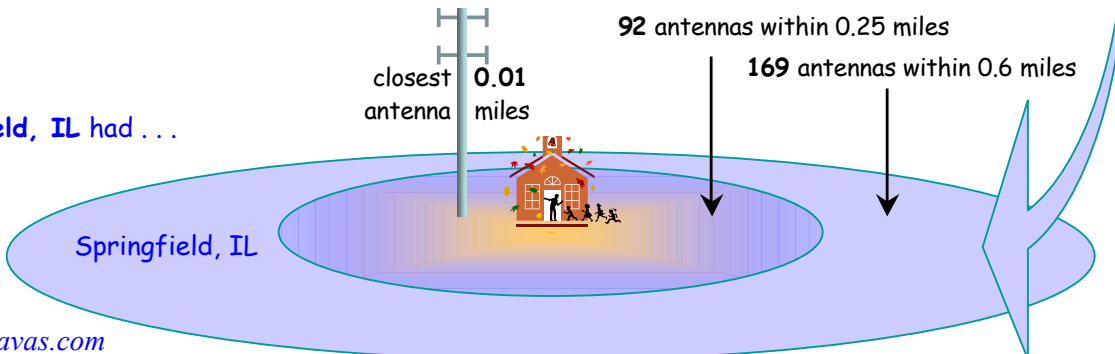
Worst Cases!



The Worst BRAG™ Schools found in Springfield, IL had ...

- Closest antenna to a school - 0.01 miles away!
- Antennas within 0.25 miles - 92 antennas!
- Antennas within 0.6 miles - 169 antennas!

[Find your favorite school.](#)





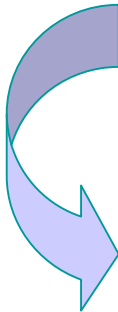
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

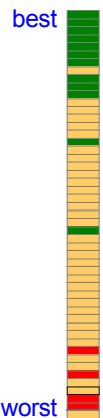
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Salt Lake City, Utah BRAG™ Antenna Ranking of Schools

### Grade for Salt Lake City



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



Salt Lake City  
can't BRAG!

Ranked

**26<sup>th</sup>**

State Capitol!



Most schools in Salt Lake City, UT: BRAG™ **AMBER**

Of the 116 schools in Salt Lake City, UT surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (50% of the schools) fell in the 2nd lowest exposure category or BRAG™ **amber**, 8% were classified as **red**, 4% as **black**, and 38% as **green**.



Salt Lake City Overall Grade: **74%**

Antennas near schools in Salt Lake City, RI generated a composite BRAG™ grade for this state capitol of **74%** ranking Salt Lake City the **26<sup>th</sup>** school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Salt Lake City.



Worst School Cases found in Salt Lake City, UT:

The schools with the **highest potential microwave exposures** (from external sources) had an antenna within **0.02 miles (~30 meters)**; 40 antennas within **0.25 miles (~400 meters)**; or **221 antennas within 0.6 miles (~1 km)**. The more antennas near schools the higher the potential exposure to microwave radiation.



What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by **antennas near school property** but also by **wireless technologies inside school buildings**. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## 26

State Capitol Ranking



### Salt Lake City can't BRAG!

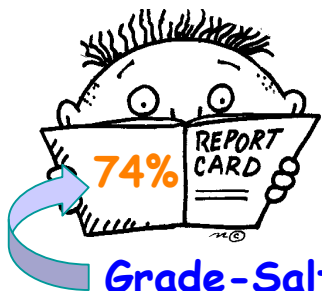
Ranked **26<sup>th</sup>** U.S. state capitol.

**Salt Lake City, Utah**  
BRAG™ Antenna Ranking of Schools

## 74%



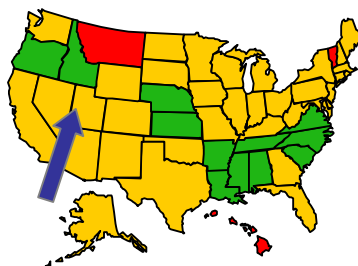
State Capitol Grade



### Grade-Salt Lake City

#### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



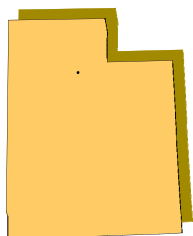
The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

## AMBER



State Capitol Color Code

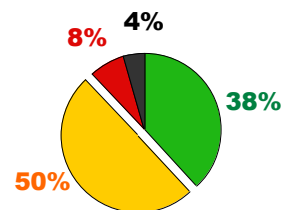


## 50%

### Salt Lake City Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (50%) in Salt Lake City, UT are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 15% of the schools are in the two highest categories (BRAG™ red & black).

Salt Lake City, UT (116 schools)



## ATTENTION NEEDED!

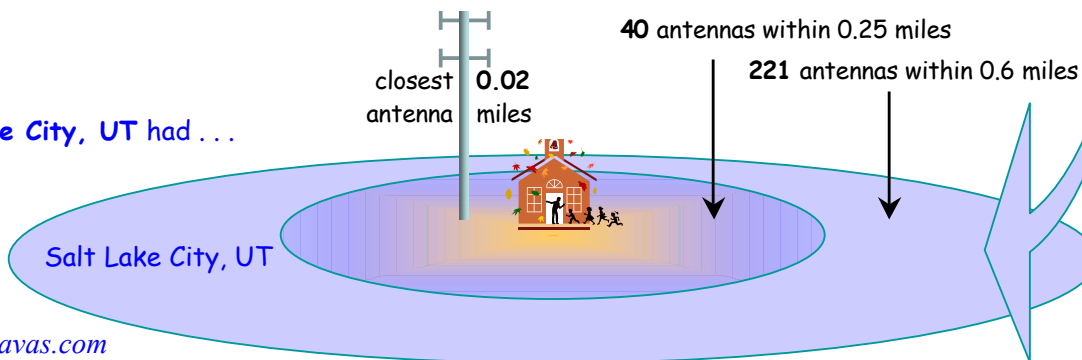


Worst Cases!

The Worst BRAG™ Schools found in Salt Lake City, UT had ...

- Closest antenna to a school - 0.02 miles away!
- Antennas within 0.25 miles - 40 antennas!
- Antennas within 0.6 miles - 221 antennas!

Find your favorite school.





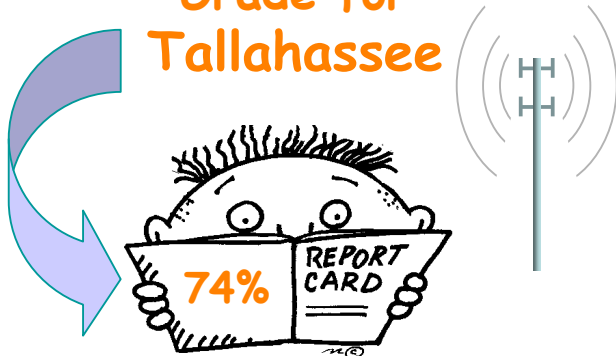
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

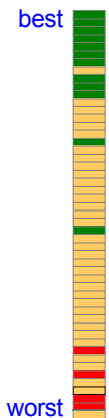
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Tallahassee, Florida BRAG™ Antenna Ranking of Schools

### Grade for Tallahassee



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Ranked **27<sup>th</sup>** State Capitol!



**Tallahassee can't BRAG!**



Most schools in Tallahassee, FL: BRAG™ **AMBER**

Of the 61 schools in Tallahassee, FL surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (54% of the schools) fell in the 2nd lowest exposure category or BRAG™ **amber**, 10% were classified as **red**, 2% as **black**, and 34% as **green**.



Tallahassee Overall Grade: **74%**

Antennas near schools in Tallahassee, FL generated a composite BRAG™ grade for this state capitol of **74%** ranking Tallahassee the **27<sup>th</sup>** school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Tallahassee.



Worst School Cases found in Tallahassee, FL:

The schools with the highest potential microwave exposures (from external sources) had an antenna within **0.01 miles** (~15 meters); **13 antennas** within **0.25 miles** (~400 meters); or **95 antennas** within **0.6 miles** (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

**27**

State Capitol Ranking



**Tallahassee can't BRAG!**

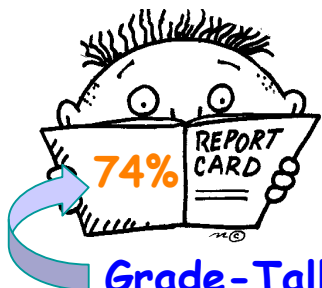
Ranked **27<sup>th</sup>** U.S. state capitol.

**Tallahassee, Florida**  
BRAG™ Antenna Ranking of Schools

**74%**



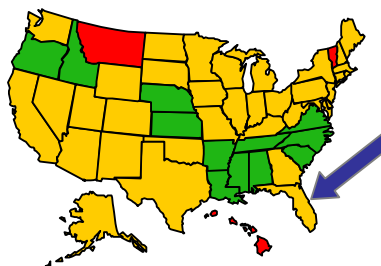
State Capitol Grade



**Grade - Tallahassee**

**Composite Grade**

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



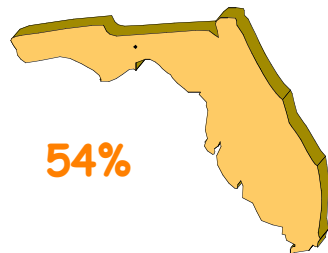
The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

most	●	B	Black
more	●	R	Red
some	●	A	Amber
few	●	G	Green

**AMBER**



State Capitol Color Code

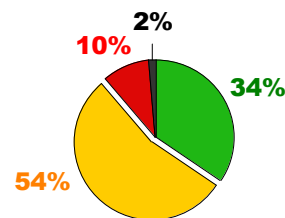


**54%**

**Tallahassee Color Code: BRAG™ AMBER**

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (54%) in Tallahassee, FL are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 15% of the schools are in the two highest categories (BRAG™ red & black).

**Tallahassee, FL (61 schools)**



**ATTENTION NEEDED!**

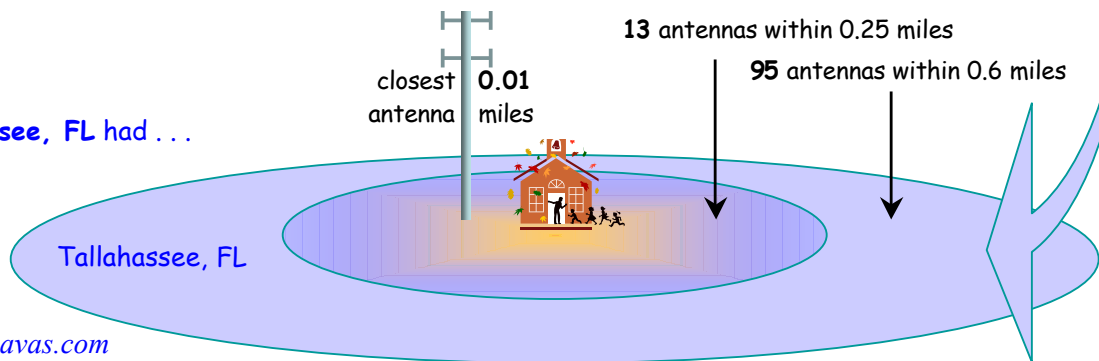


Worst Cases!

The **Worst BRAG™ Schools** found in Tallahassee, FL had ...

- Closest antenna to a school - **0.01 miles** away!
- Antennas within 0.25 miles - **13 antennas!**
- Antennas within 0.6 miles - **95 antennas!**

[Find your favorite school.](#)





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

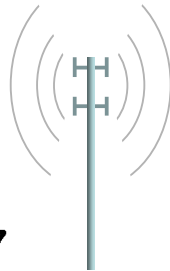
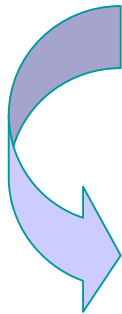
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

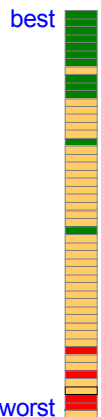
## Raleigh, North Carolina

BRAG™ Antenna Ranking of Schools

### Grade for Raleigh



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Ranked **28<sup>th</sup>** State Capitol!



Raleigh can BRAG!



Most schools in Raleigh, NC: BRAG™ GREEN

Of the 85 schools in Raleigh, NC surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (42% of the schools) fell in the lowest exposure category or BRAG™ green, 41% were classified as amber, 11% as red and 6% as black.



Raleigh Overall Grade: 73%

Antennas near schools in Raleigh, NC generated a composite BRAG™ grade for this state capitol of 73%, ranking Raleigh the 28<sup>th</sup> best school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Raleigh.



Worst School Cases found in Raleigh, NC:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.02 miles (~30 meters); 118 antennas within 0.25 miles (~400 meters); or 201 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 28

State Capitol Ranking



## Raleigh can't BRAG!

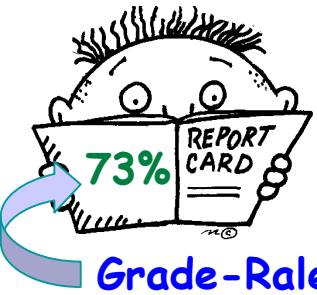
Ranked **28<sup>th</sup>** U.S. state capitol.

## Raleigh, North Carolina

*BRAG™ Antenna Ranking of Schools*

# 73%

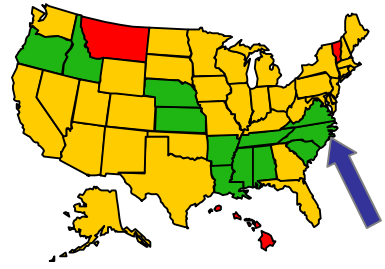
State Capitol Grade



## Grade-Raleigh

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.

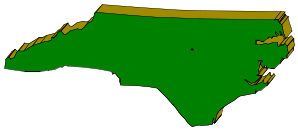


The **BRAG™ School Color Code** is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# GREEN

State Capitol Color Code

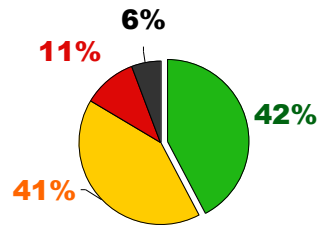


# 42%

### Raleigh Color Code: BRAG™ GREEN

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (**42%**) in Raleigh, NC are in the **lowest exposure category (BRAG™ green)** and fewer than **20%** of the schools are in the **two highest categories (BRAG™ red & black)**.

### Raleigh, NC (85 schools)



## ATTENTION NEEDED!

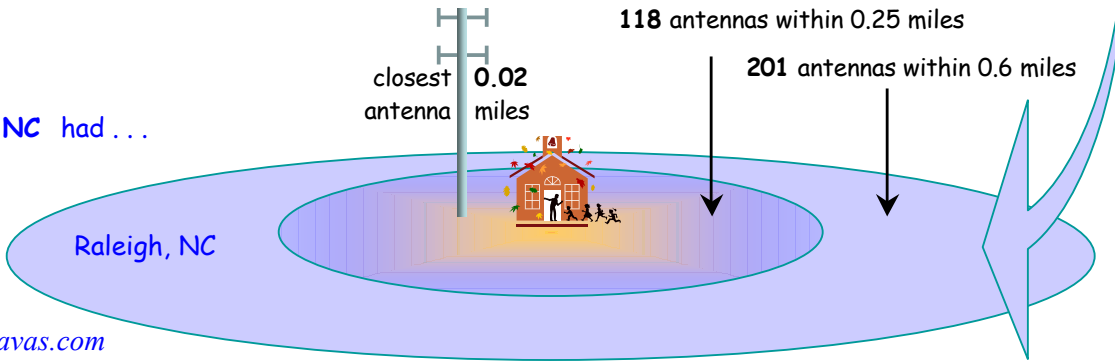
Worst Cases!



The **Worst BRAG™ Schools** found in Raleigh, NC had ...

- Closest antenna to a school - **0.02 miles** away!
- Antennas within 0.25 miles - **118 antennas!**
- Antennas within 0.6 miles - **201 antennas!**

[Find your favorite school.](#)





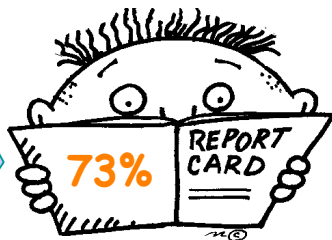
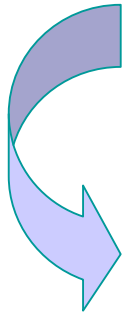
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

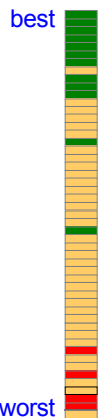
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Denver, Colorado BRAG™ Antenna Ranking of Schools

### Grade for Denver



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



### Denver can't BRAG!

Ranked  
**29<sup>th</sup>**

State Capitol!



### Most schools in Denver, CO: BRAG™ AMBER

Of the 200 schools in Denver, CO surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (54% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 12% were classified as red, 1% as black, and 33% as green.



### Denver Overall Grade: 73%

Antennas near schools in Denver, CO generated a composite BRAG™ grade for this state capitol of 73% ranking Denver the 29<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Denver.



### Worst School Cases found in Denver, CO:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0 miles (<15 meters); 58 antennas within 0.25 miles (~400 meters); or 581 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## 29

State Capitol Ranking



### Denver can't BRAG!

Ranked **29<sup>th</sup>** U.S. state capitol.

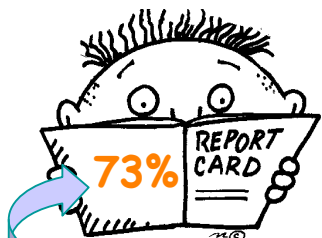
## Denver, Colorado

BRAG™ Antenna Ranking of Schools

## 73%



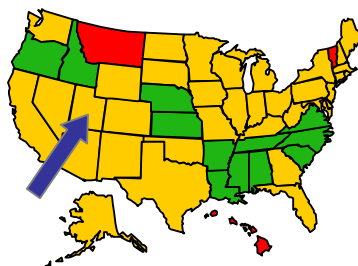
State Capitol Grade



Grade-Denver

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



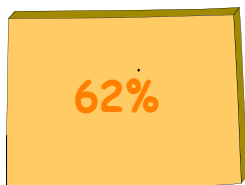
The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

## AMBER



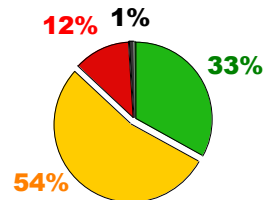
State Capitol Color Code



### Denver Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (62%) in Denver, CO are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 10% of the schools are in the two highest categories (BRAG™ red & black).

### Denver, CO (200 schools)



## ATTENTION NEEDED!

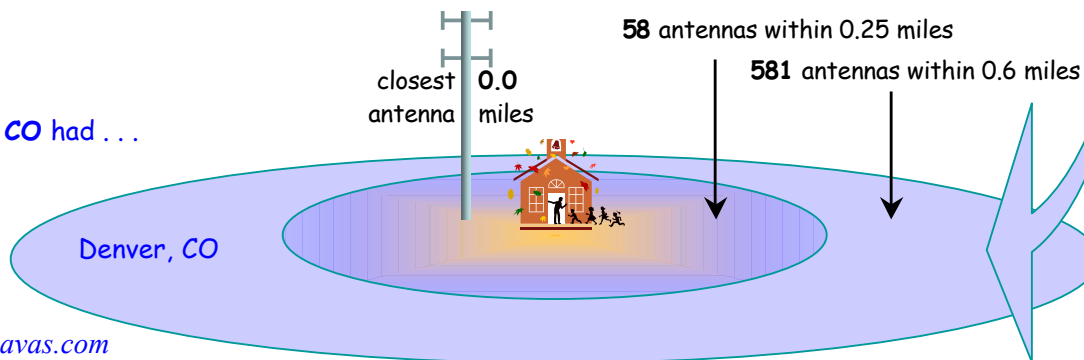


Worst Cases!

The Worst BRAG™ Schools found in Denver, CO had ...

- Closest antenna to a school - 0 miles away!
- Antennas within 0.25 miles - 58 antennas!
- Antennas within 0.6 miles - 581 antennas!

Find your favorite school.





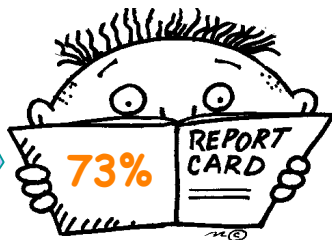
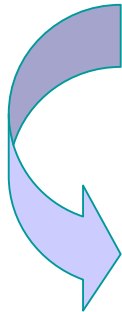
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

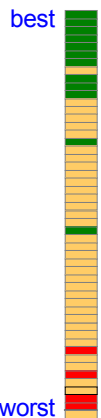
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Trenton, New Jersey BRAG™ Antenna Ranking of Schools

### Grade for Trenton



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



### Trenton can't BRAG!

Ranked  
**30<sup>th</sup>**  
State Capitol!



### Most schools in Trenton, NY: BRAG™ AMBER

Of the 67 schools in Trenton, NY surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (57% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 10% were classified as red, 1% as black, and 31% as green.



### Trenton Overall Grade: 73%

Antennas near schools in Trenton, NY generated a composite BRAG™ grade for this state capitol of 73% ranking Trenton the 30<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Trenton.



### Worst School Cases found in Trenton, NY:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.03 miles (~50 meters); 36 antennas within 0.25 miles (~400 meters); or 98 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 30

State Capitol Ranking



## Trenton can't BRAG!

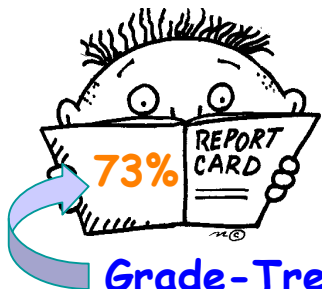
Ranked **30<sup>th</sup>** U.S. state capitol.

**Trenton, New Jersey**  
BRAG™ Antenna Ranking of Schools

# 73%



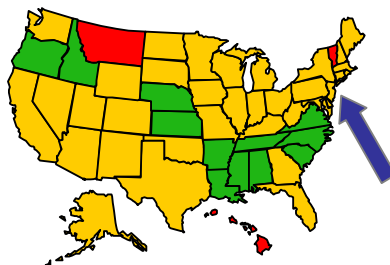
State Capitol Grade



## Grade-Trenton

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# AMBER



State Capitol Color Code

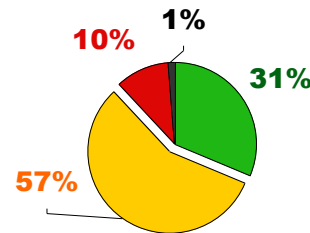


# 57%

### Trenton Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (57%) in Trenton, NJ are in the 2nd lowest exposure category (BRAG™ amber) and 11% of the schools are in the two highest categories (BRAG™ red & black).

Trenton, NJ (67 schools)



## ATTENTION NEEDED!

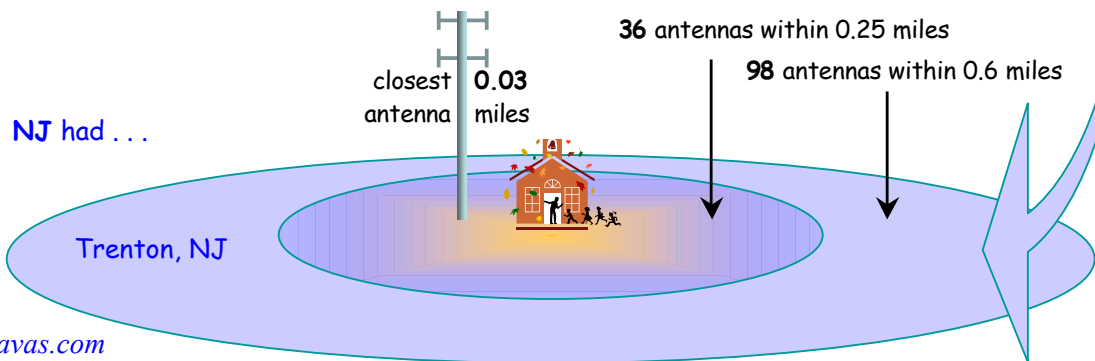


Worst Cases!

The Worst BRAG™ Schools found in Trenton, NJ had ...

- Closest antenna to a school - 0.03 miles away!
- Antennas within 0.25 miles - 36 antennas!
- Antennas within 0.6 miles - 98 antennas!

Find your favorite school.







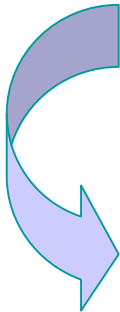
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

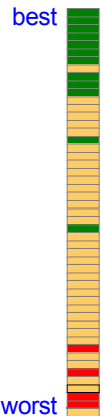
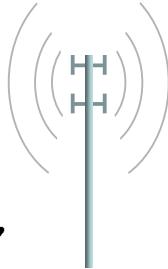
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Frankfort, Kentucky BRAG™ Antenna Ranking of Schools

### Grade for Frankfort



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



### Frankfort can't BRAG!

Ranked

**31<sup>st</sup>**

State Capitol!



Most schools in Frankfort, KY: BRAG™ **AMBER**

Of the 19 schools in Frankfort, KY surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (37% of the schools) fell in the 2nd lowest exposure category or BRAG™ **amber**, 26% were classified as **red**, 0% as **black**, and 37% as **green**.



Frankfort Overall Grade: **70%**

Antennas near schools in Frankfort, KY generated a composite BRAG™ grade for this state capitol of **70%** ranking Frankfort the **31<sup>st</sup>** school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of **individual schools** in Frankfort.



Worst School Cases found in Frankfort, KY :

The schools with the **highest potential microwave exposures** (from external sources) had an antenna within **0.09 miles** (~150 meters); **11 antennas** within **0.25 miles** (~400 meters); or **18 antennas** within **0.6 miles** (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by **antennas near school property** but also by **wireless technologies inside school buildings**. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 31

State Capitol Ranking



## Frankfort can't BRAG!

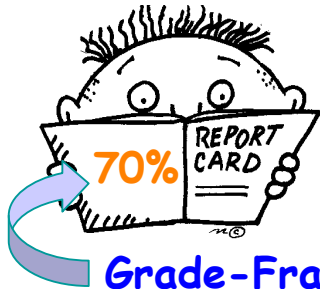
Ranked **31<sup>st</sup>** U.S. state capitol.

**Frankfort, Kentucky**  
BRAG™ Antenna Ranking of Schools

# 70%



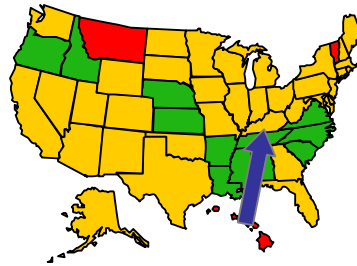
State Capitol Grade



## Grade-Frankfort

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# AMBER



State Capitol Color Code

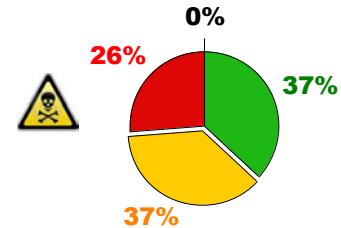
# 37%



### Frankfort Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (37%) in Frankfort, KY are in the 1st and 2nd lowest exposure category (BRAG™ green & amber) and almost 30% of the schools are in the 2nd highest categories (BRAG™ red).

Frankfort, KY (19 schools)



# ATTENTION NEEDED!

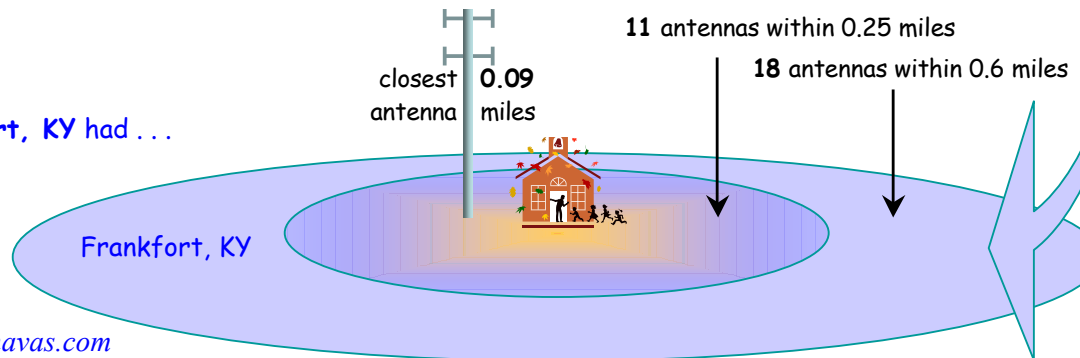


Worst Cases!

The Worst BRAG™ Schools found in Frankfort, KY had ...

- Closest antenna to a school - **0.09 miles** away!
- Antennas within 0.25 miles - **11 antennas!**
- Antennas within 0.6 miles - **18 antennas!**

[Find your favorite school.](#)





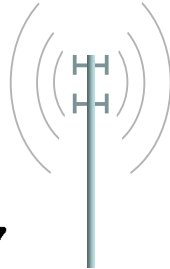
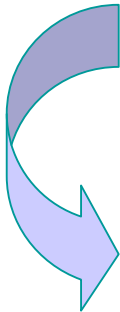
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

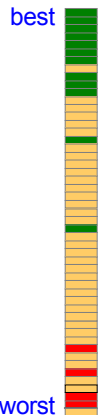
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Saint Paul, Minnesota BRAG™ Antenna Ranking of Schools

### Grade for Lansing



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



### Saint Paul can't BRAG!

Ranked  
**32<sup>nd</sup>**

State Capitol!



**Most schools in Saint Paul, MN: BRAG™ AMBER**

Of the 358 schools in Lansing, MI surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (67% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 7% were classified as red, 3% as black, and 23% as green.



**Saint Paul Overall Grade: 70%**

Antennas near schools in Saint Paul, MN generated a composite BRAG™ grade for this state capitol of 70% ranking Saint Paul the 32<sup>nd</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Saint Paul.



**Worst School Cases found in Saint Paul, MN:**

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.01 miles (~15 meters); 146 antennas within 0.25 miles (~400 meters); or 340 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



**What you can do:**

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 32

State Capitol Ranking



## Saint Paul can't BRAG!

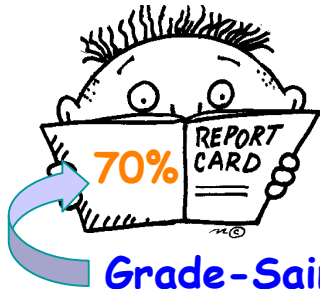
Ranked **32<sup>nd</sup>** U.S. state capitol.

**Saint Paul, Minnesota**  
BRAG™ Antenna Ranking of Schools

# 70%



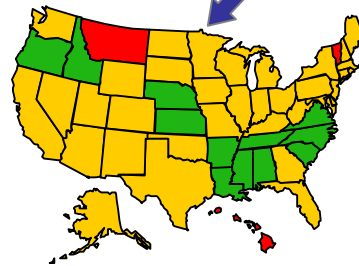
State Capitol Grade



## Grade-Saint Paul

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



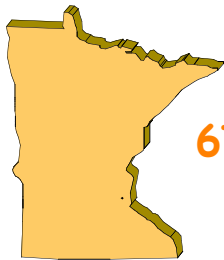
The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# AMBER



State Capitol Color Code

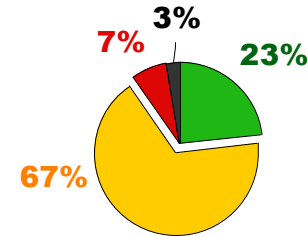


# 67%

### Saint Paul Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (67%) in Saint Paul, MN are in the 2nd lowest exposure category (BRAG™ amber) and 10% of the schools are in the two highest categories (BRAG™ red & black).

Saint Paul, MN (358 schools)



## ATTENTION NEEDED!

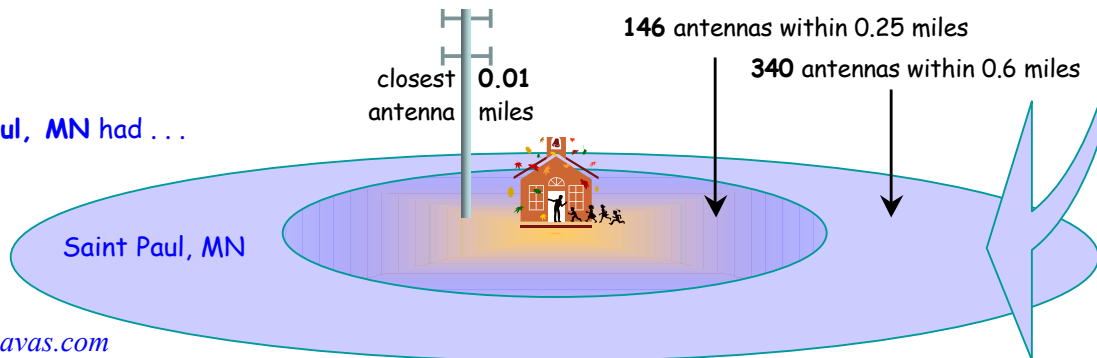


Worst Cases!

The Worst BRAG™ Schools found in Saint Paul, MN had . . .

- Closest antenna to a school - 0.01 miles away!
- Antennas within 0.25 miles - 146 antennas!
- Antennas within 0.6 miles - 340 antennas!

Find your favorite school.





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

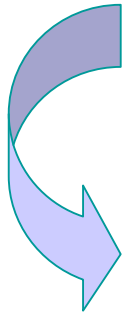
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

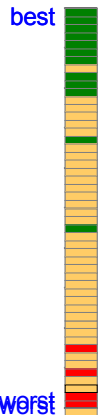
## Charleston, West Virginia

BRAG™ Antenna Ranking of Schools

### Grade for Charleston



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



Charleston can't BRAG!

Ranked

**33<sup>rd</sup>**

State Capitol!



Most schools in Charleston, WV: BRAG™ **AMBER**

Of the 38 schools in Charleston, WV surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (47% of the schools) fell in the 2nd lowest exposure category or BRAG™ **amber**, 13% were classified as **red**, 5% as **black**, and 34% as **green**.



Charleston Overall Grade: **70%**

Antennas near schools in Charleston, WV generated a composite BRAG™ grade for this state capitol of **70%** ranking Charleston the **33<sup>rd</sup>** school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Charleston.



Worst School Cases found in Charleston, WV:

The schools with the highest potential microwave exposures (from external sources) had an antenna within **0.02 miles** (~30 meters); **40 antennas** within **0.25 miles** (~400 meters); or **93 antennas** within **0.6 miles** (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by **antennas near school property** but also by **wireless technologies inside school buildings**. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 33

State Capitol Ranking



## Charleston can't BRAG!

Ranked **33<sup>rd</sup>** U.S. state capitol.

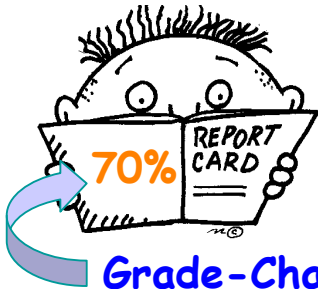
## Charleston, West Virginia

BRAG™ Antenna Ranking of Schools

# 70%



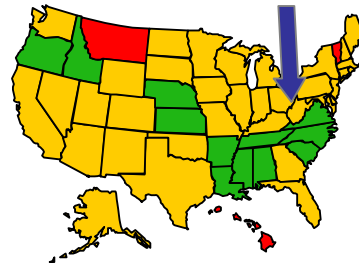
State Capitol Grade



## Grade-Charleston

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



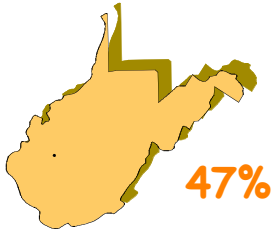
The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# AMBER



State Capitol Color Code

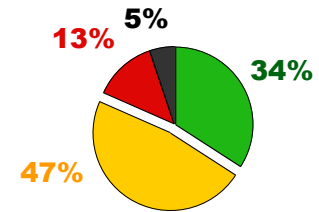


47%

### Charleston Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (47%) in Charleston, WV are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 20% of the schools are in the two highest categories (BRAG™ red & black).

Charleston, WV (38 schools)



## ATTENTION NEEDED!

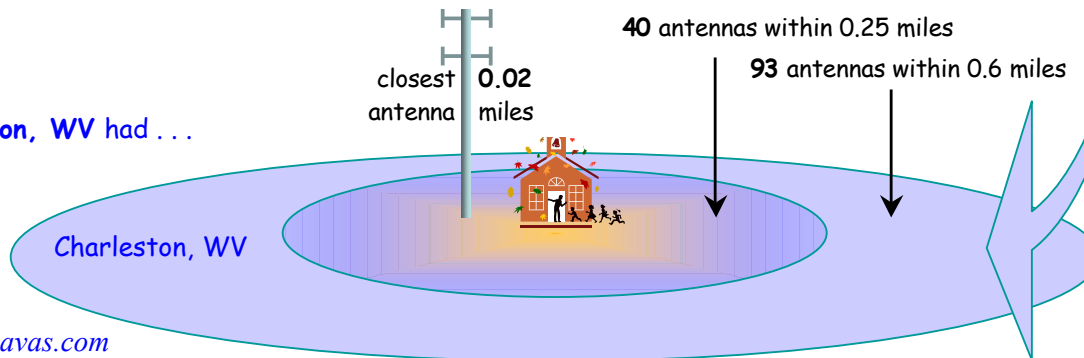


Worst Cases!

The Worst BRAG™ Schools found in Charleston, WV had ...

- Closest antenna to a school - 0.02 miles away!
- Antennas within 0.25 miles - 40 antennas!
- Antennas within 0.6 miles - 93 antennas!

Find your favorite school.







It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

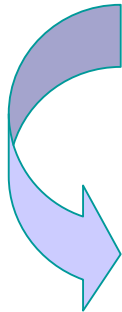
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

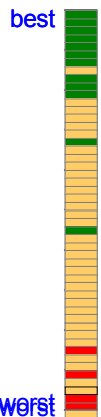
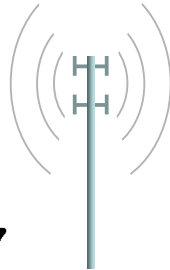
## Santa Fe, New Mexico

BRAG™ Antenna Ranking of Schools

### Grade for Santa Fe



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Santa Fe can't BRAG!

Ranked

34<sup>th</sup>

State Capitol!



Most schools in Santa Fe, NM: BRAG™ AMBER

Of the 32 schools in Santa Fe, NM surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (66% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 13% were classified as red, 0% as black, and 22% as green.



Santa Fe Overall Grade: 70%

Antennas near schools in Santa Fe, NM generated a composite BRAG™ grade for this state capitol of 70% ranking Santa Fe the 34<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Santa Fe.



Worst School Cases found in Santa Fe, NM:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.05 miles (~80 meters); 31 antennas within 0.25 miles (~400 meters); or 49 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 34

State Capitol Ranking



## Santa Fe can't BRAG!

Ranked **34<sup>th</sup>** U.S. state capitol.

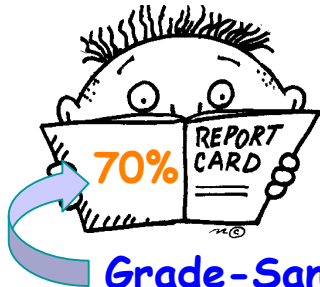
## Santa Fe, New Mexico

BRAG™ Antenna Ranking of Schools

# 70%



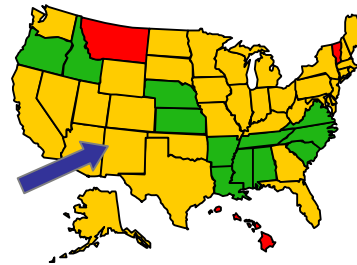
State Capitol Grade



## Grade-Santa Fe

### Composite Grade

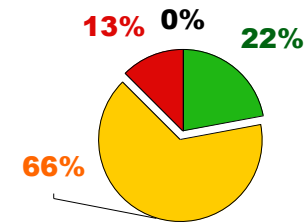
0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

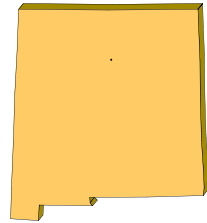
Santa Fe, NM (32 schools)



# AMBER



State Capitol Color Code



# 66%

### Santa Fe Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (66%) in Santa Fe, NM are in the 2nd lowest exposure category (BRAG™ amber) and 13% of the schools are in the 2nd highest category (BRAG™ red).

## ATTENTION NEEDED!



Worst Cases!

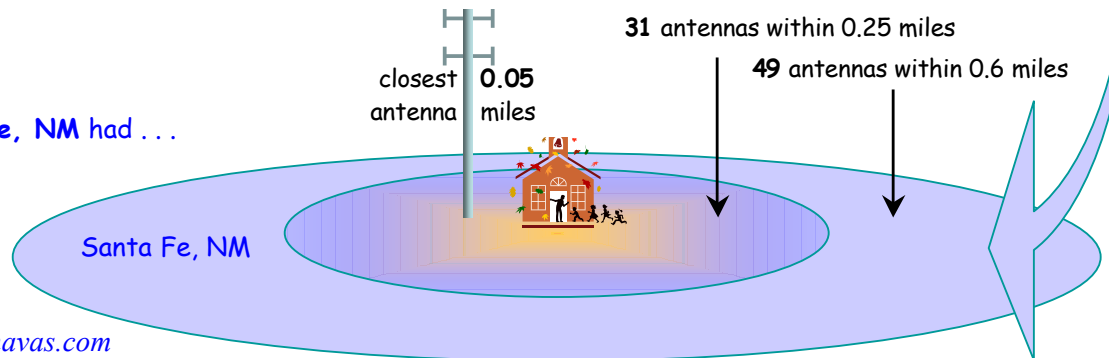
The Worst BRAG™ Schools found in Santa Fe, NM had ...

- Closest antenna to a school - 0.05 miles away!
- Antennas within 0.25 miles - 31 antennas!
- Antennas within 0.6 miles - 49 antennas!

Find your favorite school.



closest antenna 0.05 miles  
31 antennas within 0.25 miles  
49 antennas within 0.6 miles





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

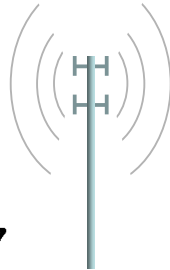
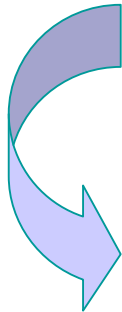
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

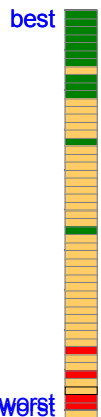
## Bismarck, North Dakota

BRAG™ Antenna Ranking of Schools

### Grade for Bismarck



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



### Bismarck can't BRAG!

Ranked **35<sup>th</sup>** State Capitol!



Most schools in Bismarck, ND: BRAG™ **AMBER**

Of the 32 schools in Bismarck, ND surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (47% of the schools) fell in the 2nd lowest exposure category or BRAG™ **amber**, 22% were classified as **red**, 0% as **black**, and 31% as **green**.



Bismarck Overall Grade: **70%**

Antennas near schools in Bismarck, ND generated a composite BRAG™ grade for this state capitol of **70%** ranking Bismarck the **35<sup>th</sup>** school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Bismarck.



Worst School Cases found in Bismarck, ND:

The schools with the highest potential microwave exposures (from external sources) had an antenna within **0.05 miles** (~80 meters); 16 antennas within **0.25 miles** (~400 meters); or 109 antennas within **0.6 miles** (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 35

State Capitol Ranking



## Bismarck can't BRAG!

Ranked **35<sup>th</sup>** U.S. state capitol.

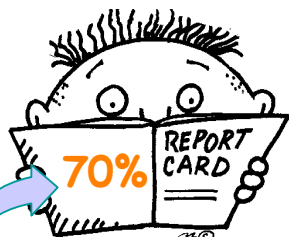
## Bismarck, North Dakota

### BRAG™ Antenna Ranking of Schools

# 70%



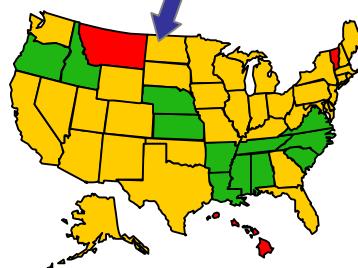
State Capitol Grade



## Grade-Bismarck

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The **BRAG™ School Color Code** is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

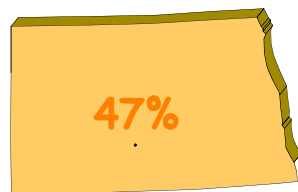
Antennas

most	●	B	Black
more	●	R	Red
some	●	A	Amber
few	●	G	Green

# AMBER



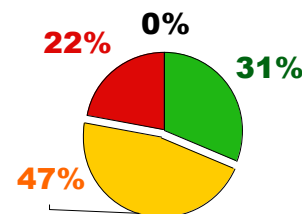
State Capitol Color Code



### Bismarck Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (47%) in Bismarck, ND are in the 2nd lowest exposure category (BRAG™ amber) and more than 20% of the schools are in the 2nd highest category (BRAG™ red).

### Bismarck, ND (32 schools)



## ATTENTION NEEDED!



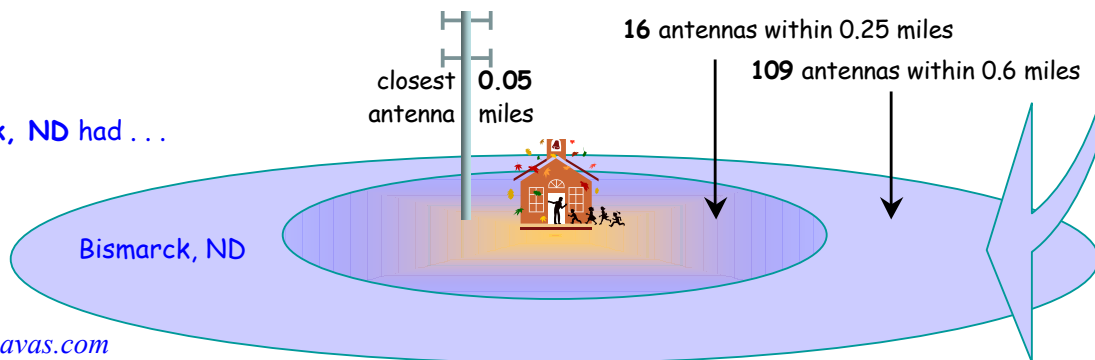
Worst Cases!

The **Worst BRAG™ Schools** found in Bismarck, ND had ...

- Closest antenna to a school - **0.05 miles** away!
- Antennas within 0.25 miles - **16 antennas!**
- Antennas within 0.6 miles - **109 antennas!**

[Find your favorite school.](#)

closest antenna **0.05 miles**  
16 antennas within 0.25 miles  
109 antennas within 0.6 miles





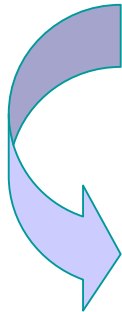
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

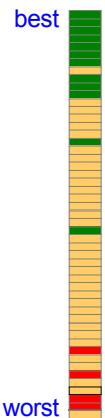
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Cheyenne, Wyoming BRAG™ Antenna Ranking of Schools

### Grade for Cheyenne



**Composite Grade:** 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



### Cheyenne can't BRAG!

Ranked  
**36<sup>th</sup>**

State Capitol!



**Most schools in Cheyenne, WY: BRAG™ AMBER**

Of the 35 schools in Cheyenne, WY surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (46% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 14% were classified as red, 6% as black, and 34% as green.



**Cheyenne Overall Grade: 70%**

Antennas near schools in Cheyenne, WY generated a composite BRAG™ grade for this state capitol of 70% ranking Cheyenne the 36<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Cheyenne.



**Worst School Cases found in Cheyenne, WY:**

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.01 miles (~15 meters); 26 antennas within 0.25 miles (~400 meters); or 84 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



**What you can do:**

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## 36

State Capitol Ranking



### Cheyenne can't BRAG!

Ranked **36<sup>th</sup>** U.S. state capitol.

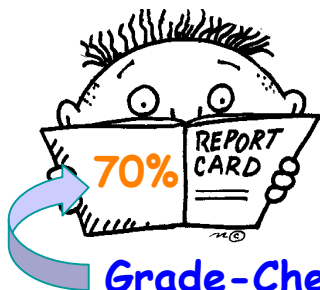
## Cheyenne, Wyoming

BRAG™ Antenna Ranking of Schools

## 70%



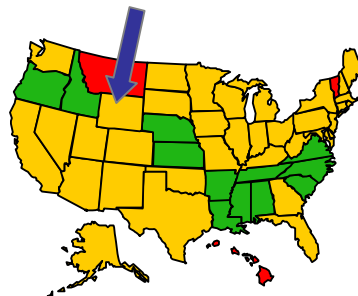
State Capitol Grade



### Grade-Cheyenne

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

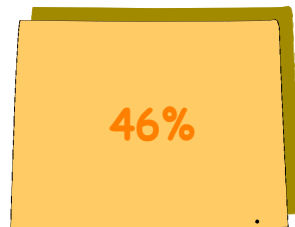
Antennas

most	●	B	Black
more	●	R	Red
some	●	A	Amber
few	●	G	Green

## AMBER



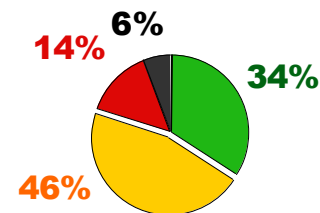
State Capitol Color Code



### Cheyenne Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (46%) in Cheyenne, WY are in the 2nd lowest exposure category (BRAG™ amber) and 20% of the schools are in the two highest categories (BRAG™ red & black).

### Cheyenne, WY (35 schools)



## ATTENTION NEEDED!



Worst Cases!

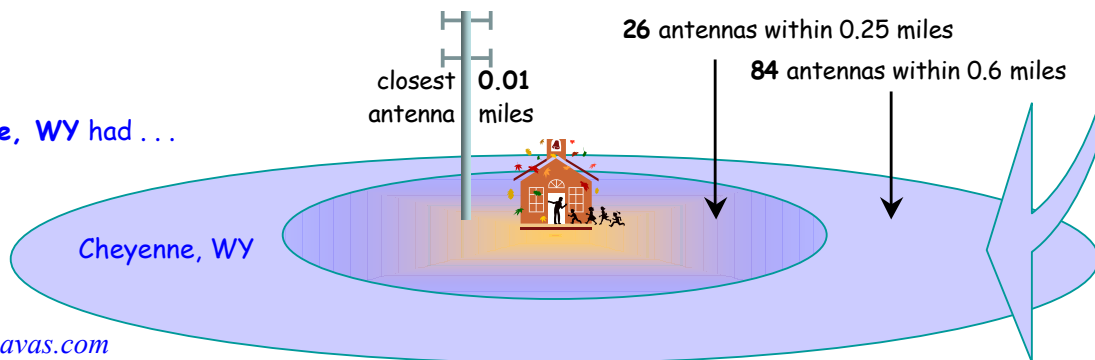
The Worst BRAG™ Schools found in Cheyenne, WY had ...

- Closest antenna to a school - 0.01 miles away!
- Antennas within 0.25 miles - 26 antennas!
- Antennas within 0.6 miles - 84 antennas!

Find your favorite school.



closest antenna 0.01 miles  
26 antennas within 0.25 miles  
84 antennas within 0.6 miles







It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

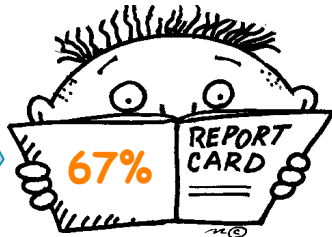
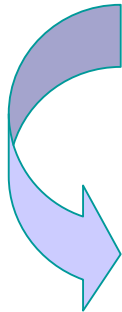
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

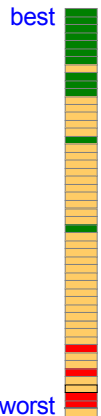
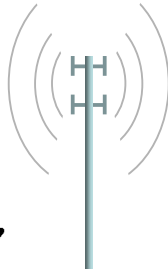
## Atlanta, Georgia

BRAG™ Antenna Ranking of Schools

### Grade for Atlanta



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



### Atlanta can't BRAG!

Ranked

**37<sup>th</sup>**

State Capitol!



### Most schools in Atlanta, GA: BRAG™ AMBER

Of the 440 schools in Atlanta, GA surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (49% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 16% were classified as red, 6% as black, and 29% as green.



### Atlanta Overall Grade: 67%

Antennas near schools in Atlanta, GA generated a composite BRAG™ grade for this state capitol of 67% ranking Atlanta the 37<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Atlanta.



### Worst School Cases found in Atlanta, GA:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.01 miles (~15 meters); 207 antennas within 0.25 miles (~400 meters); or 679 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 37

State Capitol Ranking



## Atlanta can't BRAG!

Ranked **37<sup>th</sup>** U.S. state capitol.

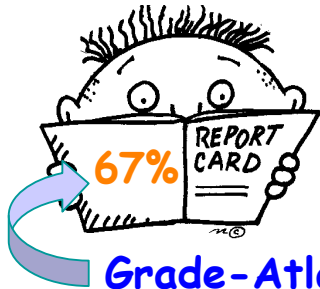
## Atlanta, Georgia

### BRAG™ Antenna Ranking of Schools

# 67%



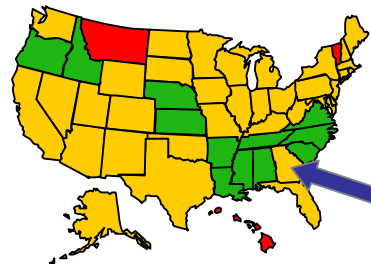
State Capitol Grade



## Grade-Atlanta

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



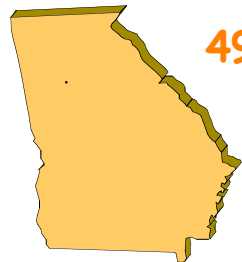
The **BRAG™ School Color Code** is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

most	●	B	Black
more	●	R	Red
some	●	A	Amber
few	●	G	Green

# AMBER



State Capitol Color Code

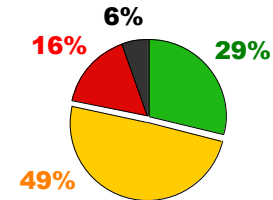


# 49%

### Atlanta Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (49%) in Atlanta, GA are in the 2nd lowest exposure category (BRAG™ amber) and more than 20% of the schools are in the two highest categories (BRAG™ red & black).

### Atlanta, GA (440 schools)



## ATTENTION NEEDED!

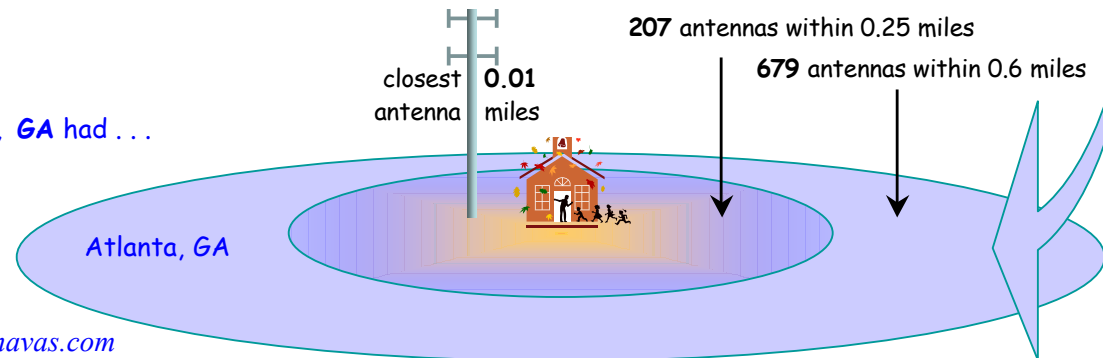


Worst Cases!

The **Worst BRAG™ Schools** found in Atlanta, GA had ...

- Closest antenna to a school - **0.01 miles** away!
- Antennas within 0.25 miles - **207 antennas!**
- Antennas within 0.6 miles - **679 antennas!**

[Find your favorite school.](#)





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

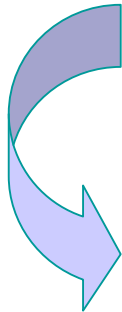
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

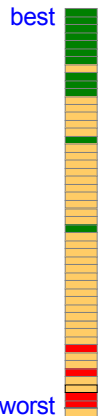
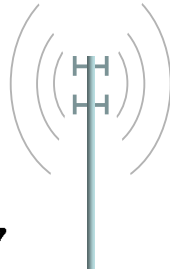
## Concord, New Hampshire

BRAG™ Antenna Ranking of Schools

### Grade for Concord



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



### Concord can't BRAG!

Ranked

**38<sup>th</sup>**

State Capitol!



### Most schools in Capitol, ST: BRAG™ AMBER

Of the 20 schools in Concord, NH surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (40% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 25% were classified as red, 5% as black, and 30% as green.



### Concord Overall Grade: 65%

Antennas near schools in Concord, NH generated a composite BRAG™ grade for this state capitol of 65% ranking Concord the 38<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Concord.



### Worst School Cases found in Concord, NH:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.02 miles (~30 meters); 24 antennas within 0.25 miles (~400 meters); or 52 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 38

State Capitol Ranking



## Concord can't BRAG!

Ranked **38<sup>th</sup>** U.S. state capitol.

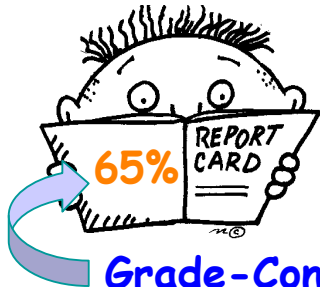
## Concord, New Hampshire

BRAG™ Antenna Ranking of Schools

# 65%



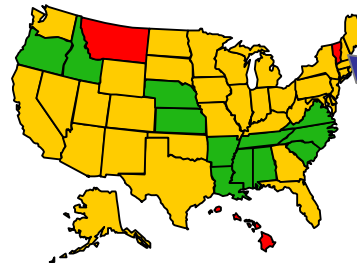
State Capitol Grade



## Grade-Concord

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



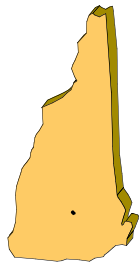
The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# AMBER



State Capitol Color Code

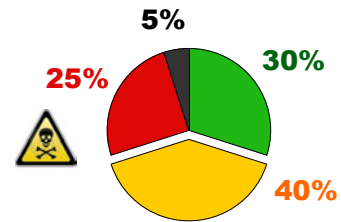


# 40%

### Concord Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (40%) in Concord, NH are in the 2nd lowest exposure category (BRAG™ amber) and 30% of the schools are in the two highest categories (BRAG™ red & black).

Concord, NH (20 schools)



## ATTENTION NEEDED!

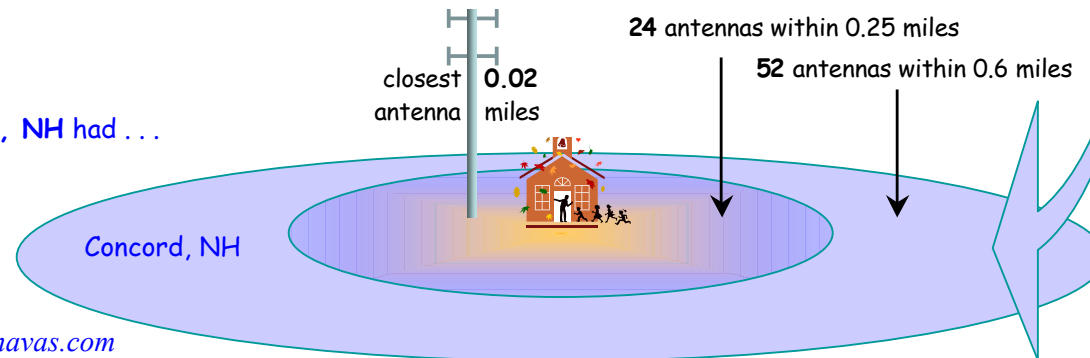


Worst Cases!

The Worst BRAG™ Schools found in Concord, NH had . . .

- Closest antenna to a school - 0.02 miles away!
- Antennas within 0.25 miles - 24 antennas!
- Antennas within 0.6 miles - 52 antennas!

Find your favorite school.





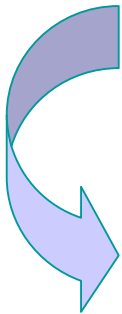
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

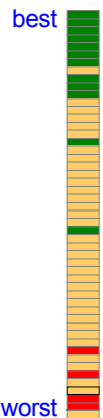
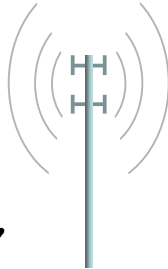
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Juneau, Alaska BRAG™ Antenna Ranking of Schools

### Grade for Juneau



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



### Juneau can't BRAG!

Ranked **39<sup>th</sup>** State Capitol!



### Most schools in Juneau, AK: BRAG™ AMBER

Of the 18 schools in Juneau, AK surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (50% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 28% were classified as red, 0% as black, and 22% as green.



### Juneau Overall Grade: 65%

Antennas near schools in Juneau, AK generated a composite BRAG™ grade for this state capitol of 65% ranking Juneau the 39<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Juneau.



### Worst School Cases found in Juneau, AK:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.02 miles (~30 meters); 9 antennas within 0.25 miles (~400 meters); or 21 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 39

State Capitol Ranking



## Juneau can't BRAG!

Ranked **39<sup>th</sup>** BEST U.S. state capitol.

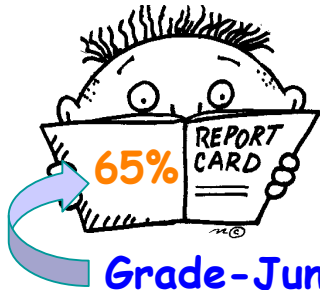
## Juneau, Alaska

### BRAG™ Antenna Ranking of Schools

# 65%



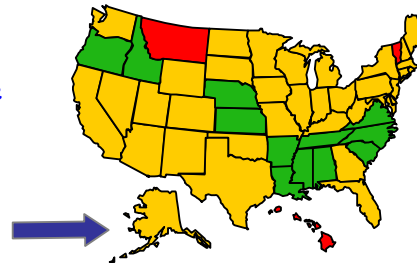
State Capitol Grade



## Grade-Juneau

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



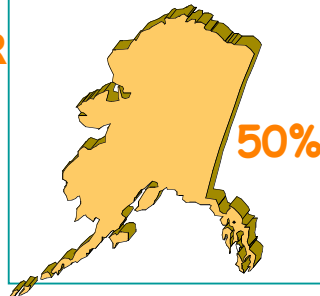
The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# AMBER



State Capitol Color Code

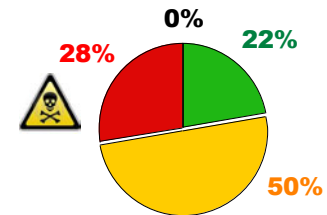


# 50%

### Juneau Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (50%) in Juneau, AK are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 30% of the schools are in the two highest categories (BRAG™ red & black).

### Juneau, AK (18 schools)



## ATTENTION NEEDED!



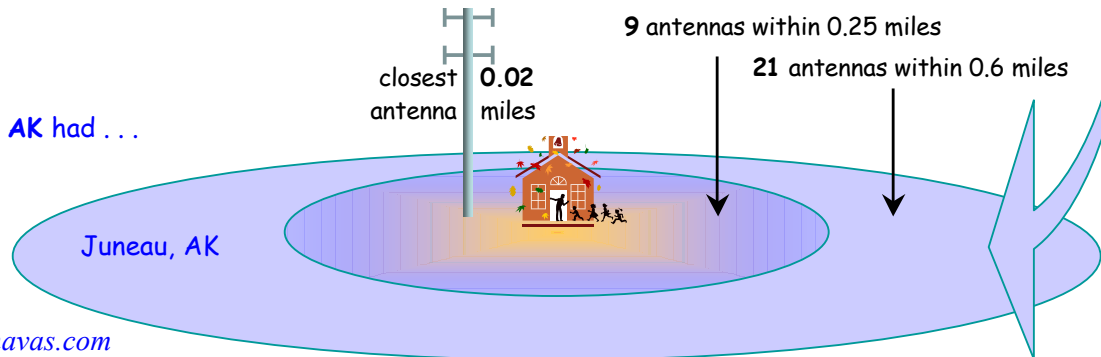
Worst Cases!

The Worst BRAG™ Schools found in Juneau, AK had ...

- Closest antenna to a school - 0.02 miles away!
- Antennas within 0.25 miles - 9 antennas!
- Antennas within 0.6 miles - 21 antennas!

[Find your favorite school.](#)

closest antenna 0.02 miles  
9 antennas within 0.25 miles  
21 antennas within 0.6 miles







It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

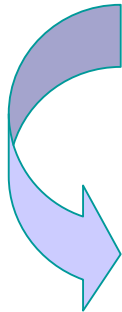
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

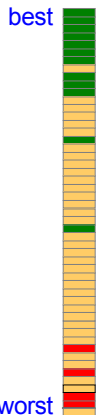
## Providence, Rhode Island

BRAG™ Antenna Ranking of Schools

### Grade for Providence



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Providence can't BRAG!

Ranked 40<sup>th</sup> State Capitol!



### Most schools in Providence, RI: BRAG™ AMBER

Of the 73 schools in Providence, RI surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (64% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 11% were classified as red, 7% as black, and 18% as green.



### Providence Overall Grade: 64%

Antennas near schools in Providence, RI generated a composite BRAG™ grade for this state capitol of 64% ranking Providence the 40<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Providence.



### Worst School Cases found in Providence, RI:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.03 miles (~50 meters); 29 antennas within 0.25 miles (~400 meters); or 120 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

**40**

State Capitol Ranking



**Providence can't BRAG!**

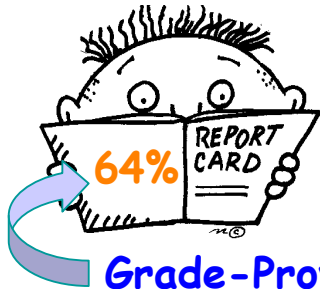
Ranked **40<sup>th</sup>** U.S. state capitol.

**Providence, Rhode Island**  
BRAG™ Antenna Ranking of Schools

**64%**



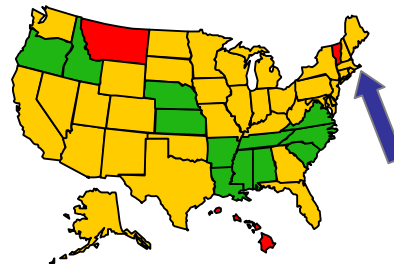
State Capitol Grade



**Grade-Providence**

**Composite Grade**

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



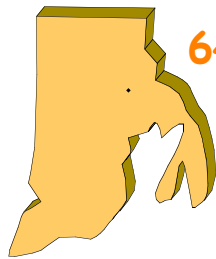
The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

most	●	B	Black
more	●	R	Red
some	●	A	Amber
few	●	G	Green

**AMBER**



State Capitol Color Code

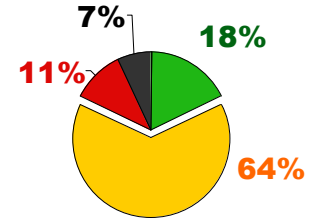


**64%**

**Providence Color Code: BRAG™ AMBER**

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (64%) in Providence, RI are in the 2nd lowest exposure category (BRAG™ amber) and fewer than 20% of the schools are in the two highest categories (BRAG™ red & black).

**Providence, RI (73 schools)**



**ATTENTION NEEDED!**

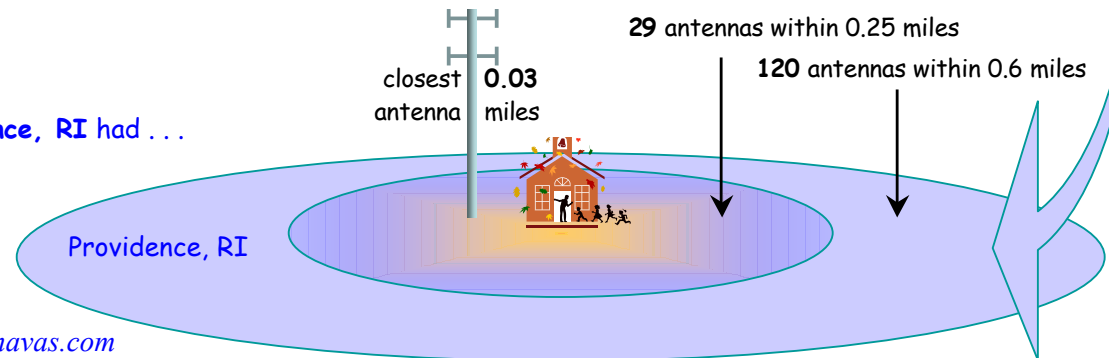


Worst Cases!

The **Worst BRAG™ Schools** found in Providence, RI had ...

- Closest antenna to a school - **0.03 miles** away!
- Antennas within 0.25 miles - **29 antennas!**
- Antennas within 0.6 miles - **120 antennas!**

Find your favorite school.





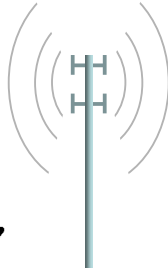
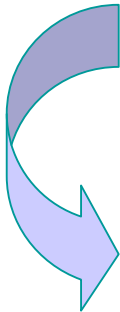
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

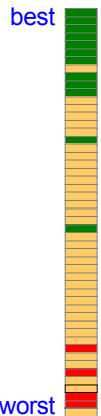
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Augusta, Maine BRAG™ Antenna Ranking of Schools

### Grade for Augusta



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



### Augusta can't BRAG!

Ranked

**41<sup>st</sup>**

State Capitol!



### Most schools in Augusta, ME : BRAG™ AMBER

Of the 32 schools in Augusta, ME surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (38% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 31% were classified as red, 3% as black, and 28% as green.



### Augusta Overall Grade: 64%

Antennas near schools in Augusta, ME generated a composite BRAG™ grade for this state capitol of 64% ranking Augusta the 41<sup>st</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Augusta.



### Worst School Cases found in Augusta, ME :

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.04 miles (~60 meters); 22 antennas within 0.25 miles (~400 meters); or 59 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 41

State Capitol Ranking



## Augusta can't BRAG!

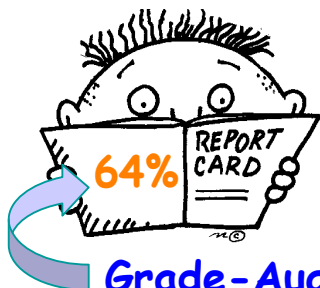
Ranked **41<sup>st</sup>** U.S. state capitol.

## Augusta, Maine BRAG™ Antenna Ranking of Schools

# 64%



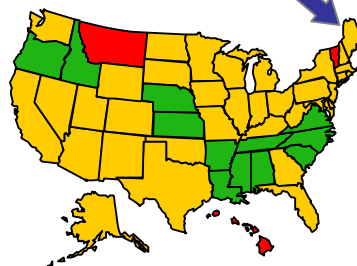
State Capitol Grade



## Grade - Augusta

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# AMBER



State Capitol Color Code

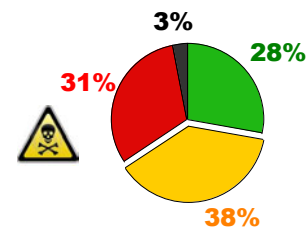


# 38%

### Augusta Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (38%) in Augusta, ME are in the 2nd lowest exposure category (BRAG™ amber) and more than 30% of the schools are in the two highest categories (BRAG™ red & black).

### Augusta, ME (32 schools)



## ATTENTION NEEDED!

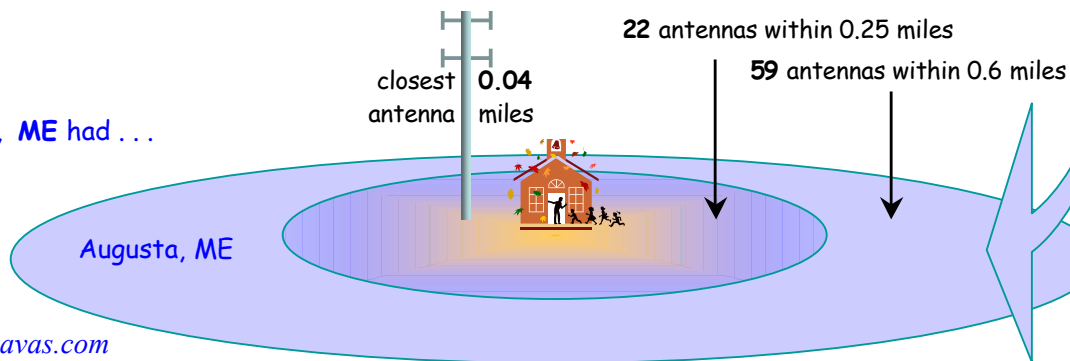


Worst Cases!

The Worst BRAG™ Schools found in Augusta, ME had . . .

- Closest antenna to a school - **0.04 miles** away!
- Antennas within 0.25 miles - **22 antennas!**
- Antennas within 0.6 miles - **59 antennas!**

Find your favorite school.





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

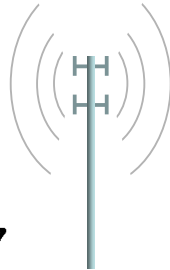
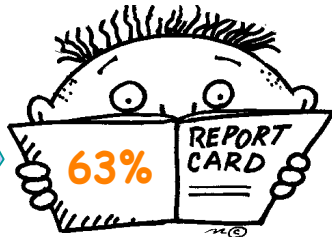
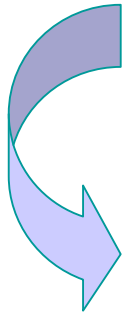
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

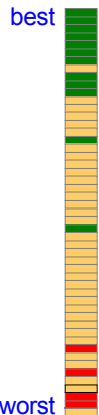
## Pierre, South Dakota

BRAG™ Antenna Ranking of Schools

### Grade for Pierre



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Pierre can't BRAG!

Ranked **42<sup>nd</sup>** State Capitol!



Most schools in Pierre, SD: BRAG™ **AMBER**

Of the 10 schools in Pierre, SD surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (50% of the schools) fell in the 2nd lowest exposure category or BRAG™ **amber**, 30% were classified as **red**, 0% as **black**, and 20% as **green**.



Pierre Overall Grade: **63%**

Antennas near schools in Pierre, SD generated a composite BRAG™ grade for this state capitol of **63%** ranking Pierre the **42<sup>nd</sup>** school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Pierre.



Worst School Cases found in Pierre, SD:

The schools with the highest potential microwave exposures (from external sources) had an antenna within **0.1 miles** (~160 meters); **12 antennas** within **0.25 miles** (~400 meters); or **29 antennas** within **0.6 miles** (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 42

State Capitol Ranking



## Pierre can't BRAG!

Ranked **42<sup>nd</sup>** U.S. state capitol.

## Pierre, South Dakota

### BRAG™ Antenna Ranking of Schools

# 63%



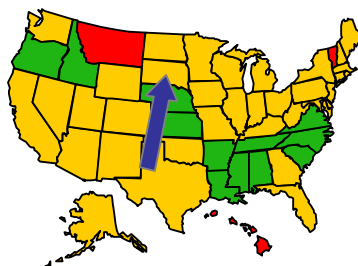
State Capitol Grade



## Grade-Pierre

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



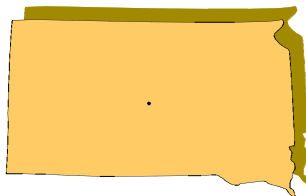
The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# AMBER



State Capitol Color Code

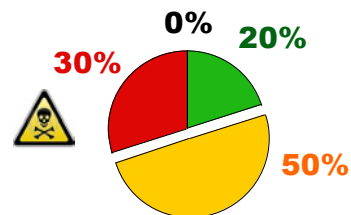


# 50%

### Pierre Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (50%) in Pierre, SD are in the 2nd lowest exposure category (BRAG™ amber) and 30% of the schools are in the 2nd highest category (BRAG™ red).

### Pierre, SD (10 schools)



## ATTENTION NEEDED!

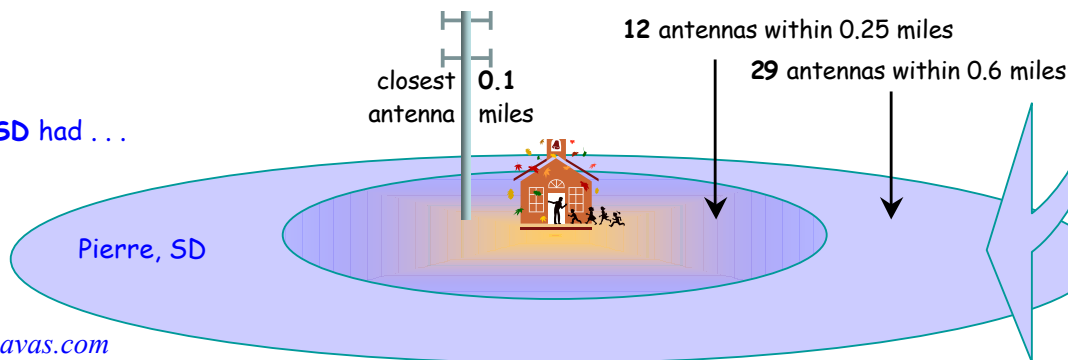


Worst Cases!

The Worst BRAG™ Schools found in Pierre, SD had ...

- Closest antenna to a school - 0.1 miles away!
- Antennas within 0.25 miles - 12 antennas!
- Antennas within 0.6 miles - 29 antennas!

[Find your favorite school.](#)







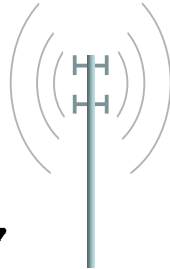
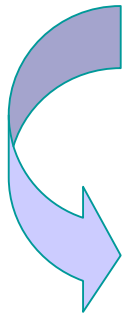
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

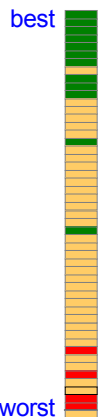
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Helena, Montana BRAG™ Antenna Ranking of Schools

### Grade for Helena



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



### Helena can't BRAG!

Ranked **43<sup>rd</sup>** State Capitol!



### Most schools in Helena, MT : BRAG™ RED

Of the 19 schools in Helena, MT surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (32% of the schools) fell in the 2nd highest exposure category or BRAG™ red, 5% were classified as black, 32% as amber, and 32% as green.



### Helena Overall Grade: 63%

Antennas near schools in Helena, MT generated a composite BRAG™ grade for this state capitol of 63% ranking Helena the 43<sup>rd</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Helena.



### Worst School Cases found in Helena, MT:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0 miles (<15 meters); 28 antennas within 0.25 miles (~400 meters); or 70 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 43

State Capitol Ranking



## Helena can't BRAG!

Ranked **43<sup>rd</sup>** U.S. state capitol.

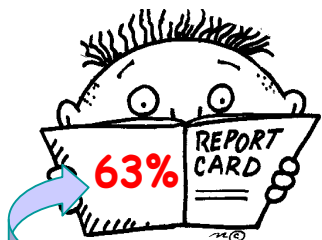
## Helena, Montana

BRAG™ Antenna Ranking of Schools

# 63%



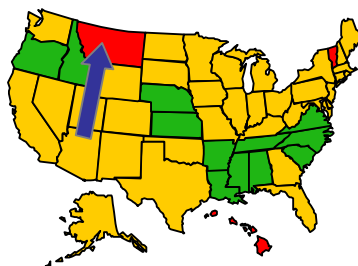
State Capitol Grade



Grade-Helena

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



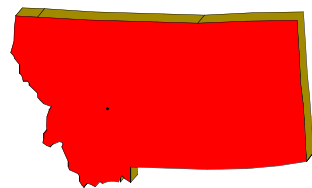
The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# AMBER



State Capitol Color Code

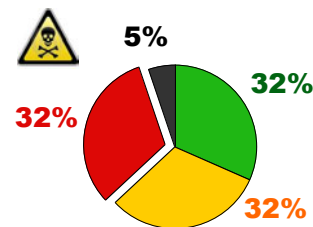


32%

### Helena Color Code: BRAG™ RED

The percentage of schools in each BRAG™ category are shown on the right. Almost one third of the schools (32%) in Helena, MT are in the 2nd highest exposure category (BRAG™ red) and another 5% of the schools are in the highest categories (BRAG™ black).

### Helena, MT (19 schools)



## ATTENTION NEEDED!

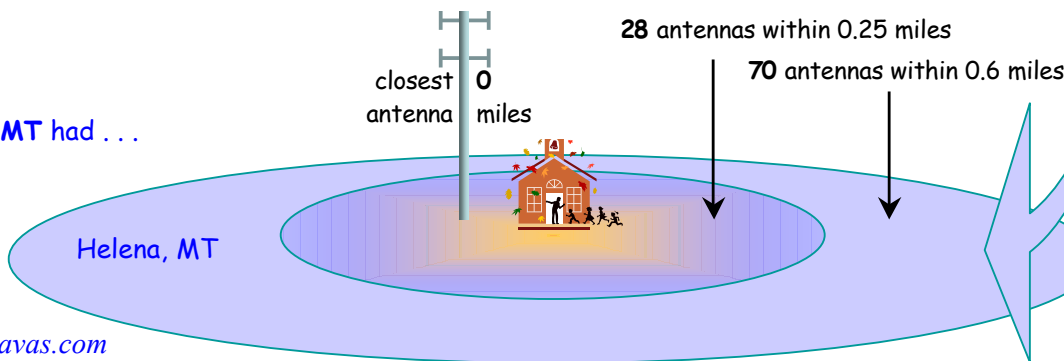


Worst Cases!

The Worst BRAG™ Schools found in Helena, MT had ...

- Closest antenna to a school - 0 miles away!
- Antennas within 0.25 miles - 28 antennas!
- Antennas within 0.6 miles - 70 antennas!

Find your favorite school.





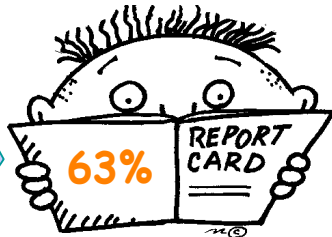
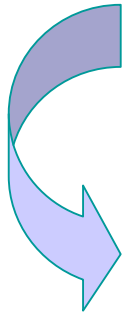
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

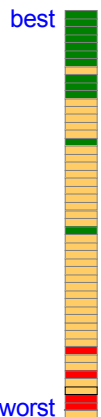
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Albany, New York BRAG™ Antenna Ranking of Schools

### Grade for Albany



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



### Albany can't BRAG!

Ranked  
**44<sup>th</sup>**  
State Capitol!



### Most schools in Albany, NY: BRAG™ AMBER

Of the 55 schools in Albany, NY surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (69% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 7% were classified as red, 9% as black, and 15% as green.



### Albany Overall Grade: 63%

Antennas near schools in Albany, NY generated a composite BRAG™ grade for this state capitol of 63% ranking Albany the 44<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Albany.



### Worst School Cases found in Albany, NY:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.01 miles (~15 meters); 36 antennas within 0.25 miles (~400 meters); or 197 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## 44

State Capitol Ranking



### Albany can't BRAG!

Ranked **44<sup>th</sup>** U.S. state capitol.

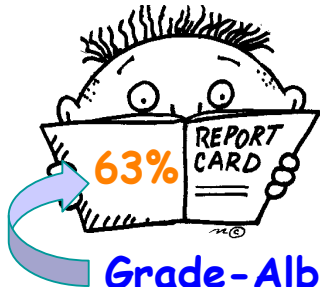
## Albany, New York

### BRAG™ Antenna Ranking of Schools

## 63%



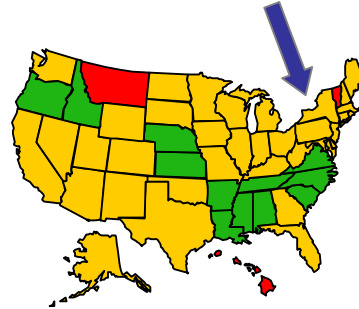
State Capitol Grade



### Grade-Albany

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



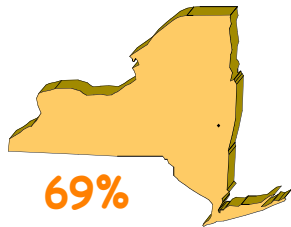
The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

## AMBER



State Capitol Color Code

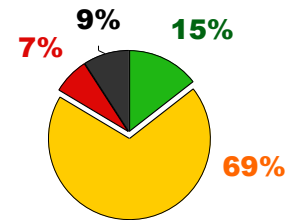


## 69%

### Albany Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (69%) in Albany, NY are in the 2nd lowest exposure category (BRAG™ amber) and 16% of the schools are in the two highest categories (BRAG™ red & black).

Albany, NY (55 schools)



## ATTENTION NEEDED!

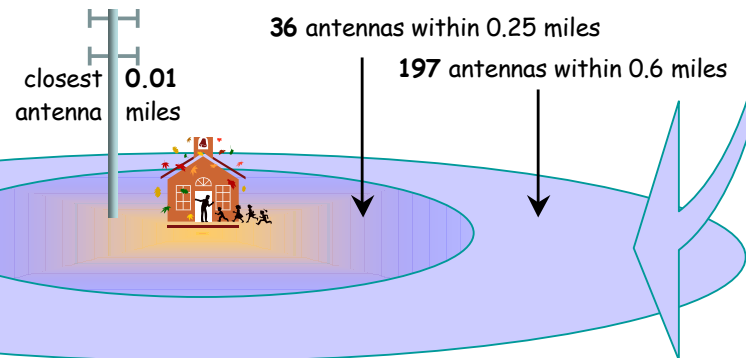


Worst Cases!

The Worst BRAG™ Schools found in Albany, NY had ...

- Closest antenna to a school - 0.01 miles away!
- Antennas within 0.25 miles - 36 antennas!
- Antennas within 0.6 miles - 197 antennas!

Find your favorite school.





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

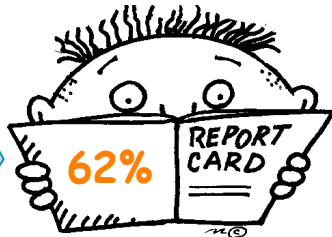
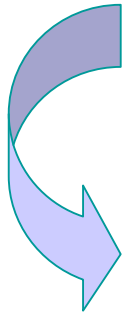
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

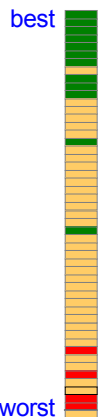
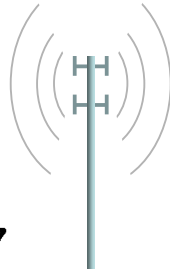
## Harrisburg, Pennsylvania

BRAG™ Antenna Ranking of Schools

### Grade for Harrisburg



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



### Harrisburg can't BRAG!

Ranked **45<sup>th</sup>** State Capitol!



### Most schools in Harrisburg, PA: BRAG™ AMBER

Of the 118 schools in Harrisburg, PA surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (65% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 16% were classified as red, 5% as black, and 14% as green.



### Harrisburg Overall Grade: 62%

Antennas near schools in Harrisburg, PA generated a composite BRAG™ grade for this state capitol of 62% ranking Harrisburg the 45<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Harrisburg.



### Worst School Cases found in Harrisburg, PA:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.01 miles (~15 meters); 107 antennas within 0.25 miles (~400 meters); or 181 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## 45

State Capitol Ranking



## Harrisburg can't BRAG!

Ranked **45<sup>th</sup>** U.S. state capitol.

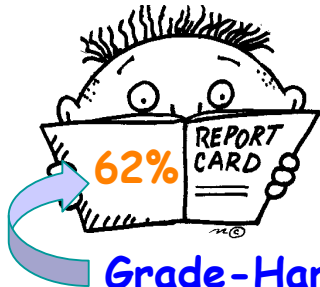
## Harrisburg, Pennsylvania

BRAG™ Antenna Ranking of Schools

## 62%



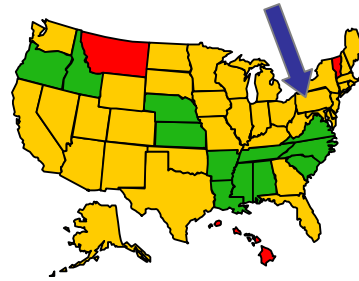
State Capitol Grade



## Grade-Harrisburg

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

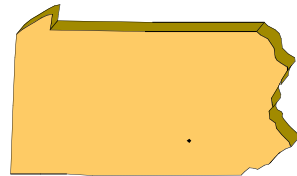
Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

## AMBER



State Capitol Color Code

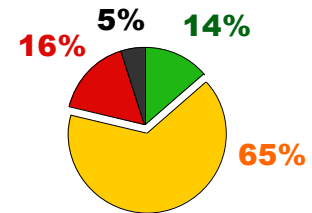
## 65%



### Harrisburg Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (65%) in Harrisburg, PA are in the 2nd lowest exposure category (BRAG™ amber) and more than 20% of the schools are in the two highest categories (BRAG™ red & black).

Harrisburg, PA (118 schools)



## ATTENTION NEEDED!



Worst Cases!

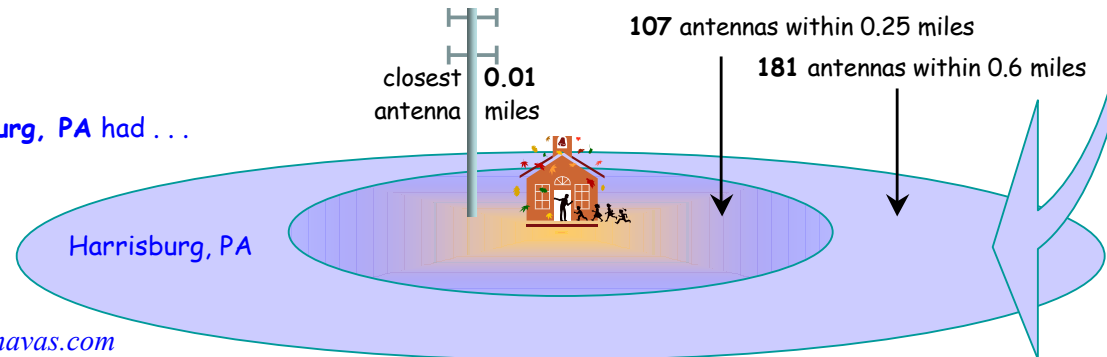
The Worst BRAG™ Schools found in Harrisburg, PA had ...

- Closest antenna to a school - 0.01 miles away!
- Antennas within 0.25 miles - 107 antennas!
- Antennas within 0.6 miles - 181 antennas!

Find your favorite school.



closest antenna 0.01 miles  
107 antennas within 0.25 miles  
181 antennas within 0.6 miles







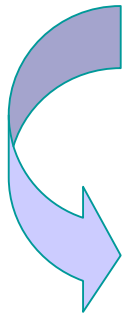
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

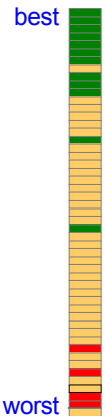
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Montpelier, Vermont BRAG™ Antenna Ranking of Schools

### Grade for Montpelier



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



### Montpelier can't BRAG!

Ranked **46<sup>th</sup>** State Capitol!



### Most schools in Montpelier, VT : BRAG™ RED

Of the 15 schools in Montpelier, VT surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (40% of the schools) fell in the 2nd highest exposure category or BRAG™ red, 0% were classified as black, 40% as amber, and 20% as green.



### Montpelier Overall Grade: 60%

Antennas near schools in Montpelier, VT generated a composite BRAG™ grade for this state capitol of 60% ranking Montpelier the 46<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Montpelier.



### Worst School Cases found in Montpelier, VT:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0 miles (<15 meters); 10 antennas within 0.25 miles (~400 meters); or 34 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 46

State Capitol Ranking



## Montpelier can't BRAG!

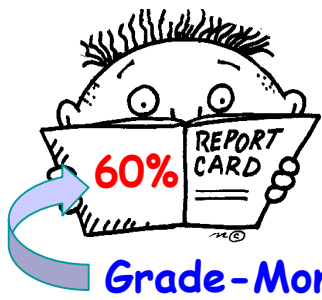
Ranked **46<sup>th</sup>** U.S. state capitol.

## Montpelier, Vermont BRAG™ Antenna Ranking of Schools

# 60%



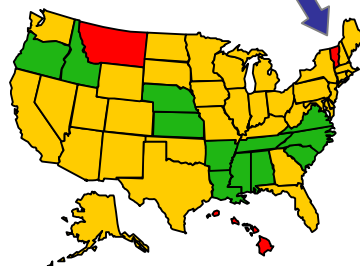
State Capitol Grade



### Grade-Montpelier

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

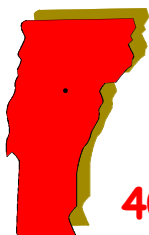
Antennas

most	●	B	Black
more	●	R	Red
some	●	A	Amber
few	●	G	Green

# AMBER



State Capitol Color Code

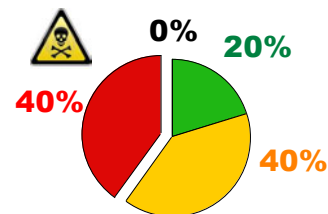


# 40%

### Montpelier Color Code: BRAG™ RED

The percentage of schools in each BRAG™ category are shown on the right. Almost one third of the schools (40%) in Montpelier, VT are in the 2nd highest exposure category (BRAG™ red) and only 20% of the schools are in the lowest exposure category (BRAG™ green).

### Montpelier, VT (15 schools)



## ATTENTION NEEDED!

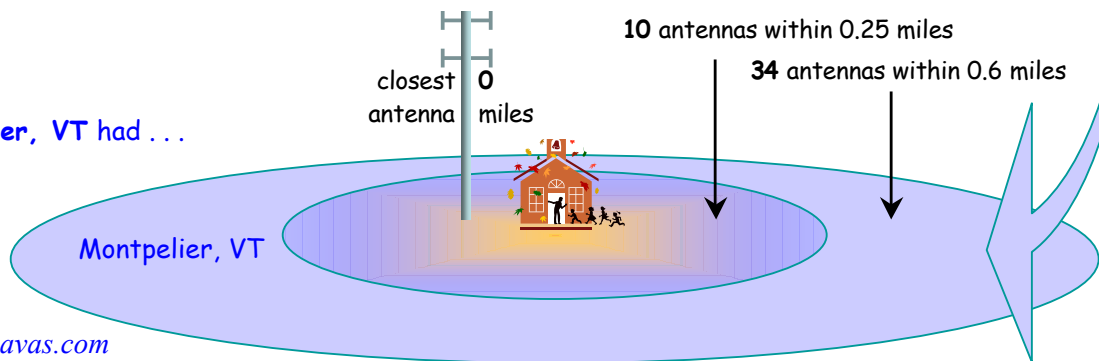


Worst Cases!

The Worst BRAG™ Schools found in Montpelier, VT had ...

- Closest antenna to a school - **0 miles** away!
- Antennas within 0.25 miles - **10 antennas!**
- Antennas within 0.6 miles - **34 antennas!**

[Find your favorite school.](#)





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

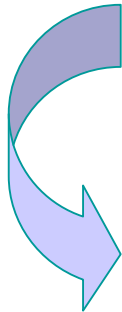
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

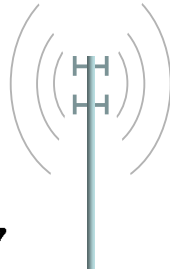
## Carson City, Nevada

BRAG™ Antenna Ranking of Schools

### Grade for Carson City



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



Carson City can't BRAG!

Ranked 47<sup>th</sup>

State Capitol!



Most schools in Carson City, NV: BRAG™ AMBER

Of the 12 schools in Carson City, NV surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (50% of the schools) fell in the 2nd lowest exposure category or BRAG™ amber, 28% were classified as red, 0% as black, and 22% as green.



Carson City Overall Grade: 56%

Antennas near schools in Carson City, NV generated a composite BRAG™ grade for this state capitol of 56% ranking Carson Carson City the 47<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Carson Carson City.



Worst School Cases found in Carson City, NV :

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.03 miles (~50 meters); 18 antennas within 0.25 miles (~400 meters); or 55 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 47

State Capitol Ranking



## Carson City can't BRAG!

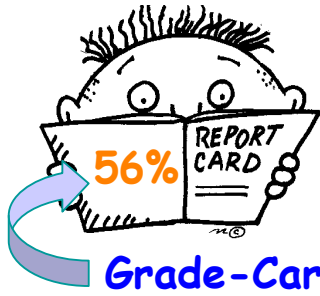
Ranked **47<sup>th</sup>** U.S. state capitol.

**Carson City, Nevada**  
BRAG™ Antenna Ranking of Schools

# 56%



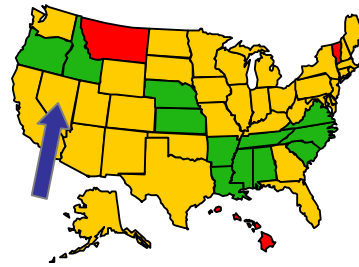
State Capitol Grade



## Grade-Carson City

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



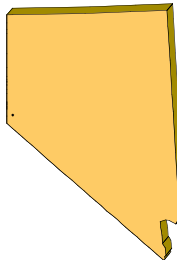
The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# AMBER



State Capitol Color Code

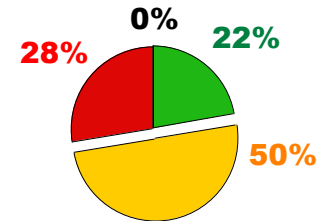


# 50%

### Carson City Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (50%) in Carson City, NV are in the 2nd lowest exposure category (BRAG™ amber) and just under 30% of the schools are in the second highest category (BRAG™ red).

Carson City, NV (12 schools)



## ATTENTION NEEDED!

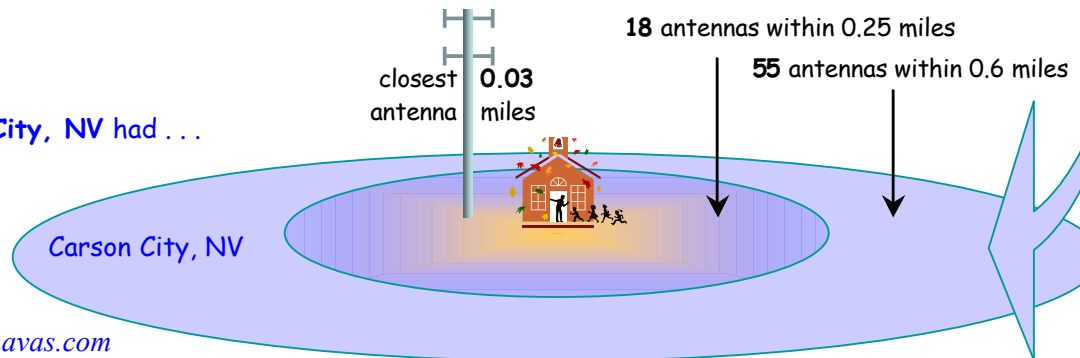


Worst Cases!

The Worst BRAG™ Schools found in Carson City, NV had ...

- Closest antenna to a school - 0.03 miles away!
- Antennas within 0.25 miles - 18 antennas!
- Antennas within 0.6 miles - 55 antennas!

[Find your favorite school.](#)





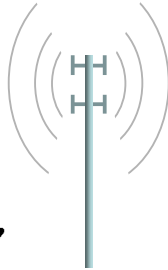
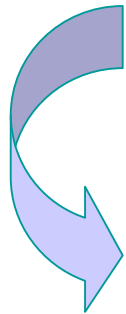
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

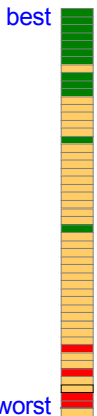
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Washington, District of Columbia BRAG™ Antenna Ranking of Schools

### Grade for Washington



Composite Grade: 0-100% possible,  
Lower grade means more antennas nearby with  
greater potential for microwave exposure.



### Washington can BRAG!

Ranked  
**48th**

among State Capitols!



### Most schools in Washington, D.C.: BRAG™ AMBER

Of the 448 schools in Washington, D.C. surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (49% of the schools) fell in the second exposure category or BRAG™ amber, 6% were classified as green, 31% as red and 14% as black.



### Washington Overall Grade: 49%

Antennas near schools in Washington, D.C. generated a composite BRAG™ grade for this state capitol of 49%, ranking Washington the 49th school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Washington.



### Worst School Cases found in Washington, D.C.:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0 miles (<15 meters); 149 antennas within 0.25 miles (~400 meters); or 353 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

**48**  
State Capitol  
Ranking



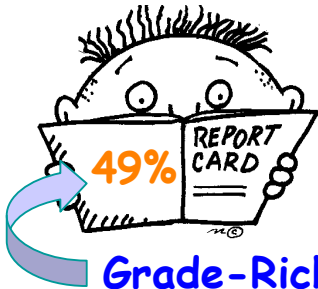
**Washington can BRAG!**  
Ranked **48th** among U.S. state capitols.

**Washington, District of Columbia**  
*BRAG™ Antenna Ranking of Schools*

**49%**



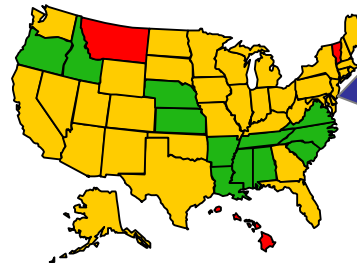
State Capitol  
Grade



**Grade-Richmond**

### Composite Grade

0-100% possible,  
Lower grade means more  
antennas nearby with  
greater potential for  
microwave exposure.



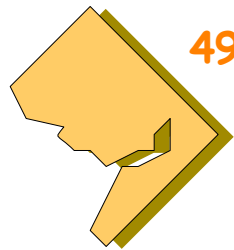
The **BRAG™ School Color Code** is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

**AMBER**



State Capitol  
Color Code

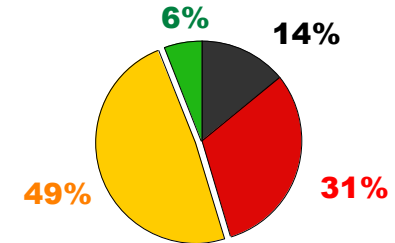


**49%**

### Washington Color Code: BRAG™ AMBER

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (49%) in Washington, D.C. are in the 2nd lowest exposure category (BRAG™ amber), only 6% are in the lowest exposure category (BRAG™ green), while 45% of the schools are in the two highest categories (BRAG™ red & black).

### Washington, D.C. (448 schools)



## ATTENTION NEEDED!

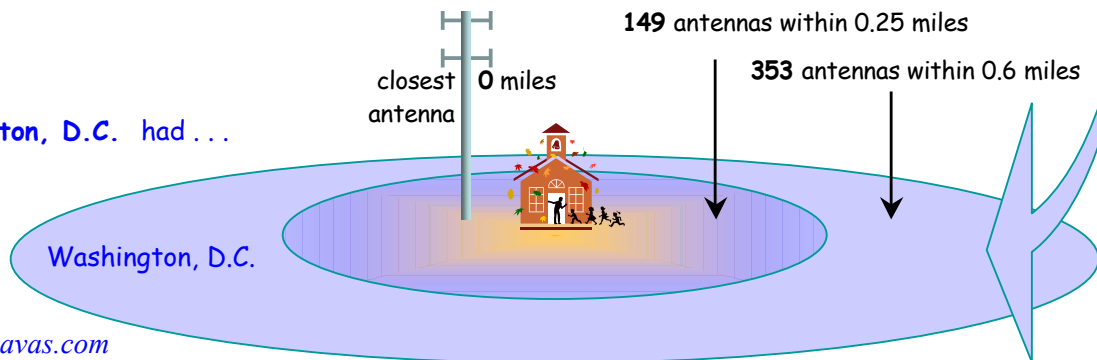


Worst Cases!

The **Worst BRAG™ Schools** found in Washington, D.C. had...

- Closest antenna to a school - **0 miles** away!
- Antennas within 0.25 miles - **149 antennas!**
- Antennas within 0.6 miles - **353 antennas!**

[Find your favorite school.](#)







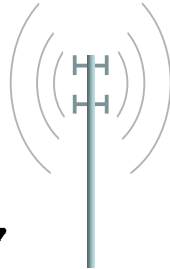
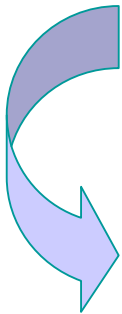
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

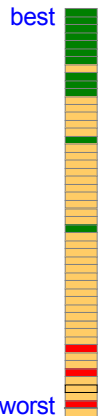
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Hartford, Connecticut BRAG™ Antenna Ranking of Schools

### Grade for Hartford



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



### Hartford can't BRAG!

Ranked  
**49th**

← State Capitol!



Most schools in Hartford, CT: BRAG™ **AMBER**

Of the 49 schools in Hartford, CT surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (43% of the schools) fell in the 2nd lowest exposure category or BRAG™ **amber**, 14% were classified as **black**, 29% as **red**, and 14% as **green**.



Hartford Overall Grade: **48%**

Antennas near schools in Hartford, CT generated a composite BRAG™ grade for this state capitol of **48%** ranking Hartford the **48th** school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Hartford.



Worst School Cases found in Hartford, CT:

The schools with the highest potential microwave exposures (from external sources) had an antenna within **0.01 miles** (~15 meters); 122 antennas within **0.25 miles** (~400 meters); or 257 antennas within **0.6 miles** (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by **antennas near school property** but also by **wireless technologies inside school buildings**. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 49

State Capitol Ranking



## Hartford can't BRAG!

Ranked **49<sup>th</sup>** U.S. state capitol.

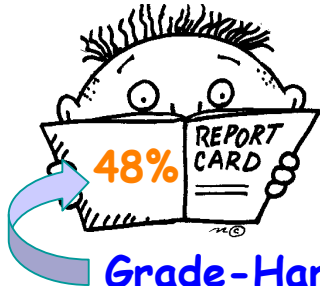
## Hartford, Connecticut

### BRAG™ Antenna Ranking of Schools

# 48%



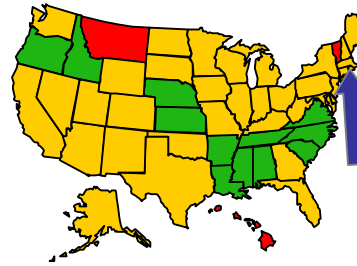
State Capitol Grade



## Grade-Hartford

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



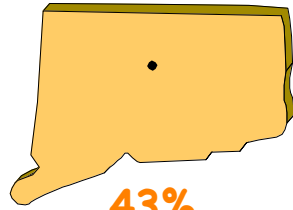
The **BRAG™ School Color Code** is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# AMBER



State Capitol Color Code

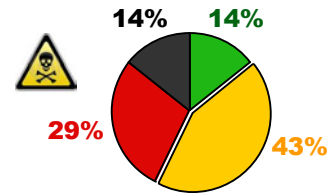


# 43%

### Hartford Color Code: BRAG™ Amber

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (**43%**) in Hartford, CT are in the **2nd lowest exposure category (BRAG™ amber)** and only **14%** of the schools are in the lowest category (**BRAG™ green**), while **43%** of the schools are in the two highest exposure categories (**BRAG™ red & black**).

### Hartford, CT (49 schools)



## ATTENTION NEEDED!

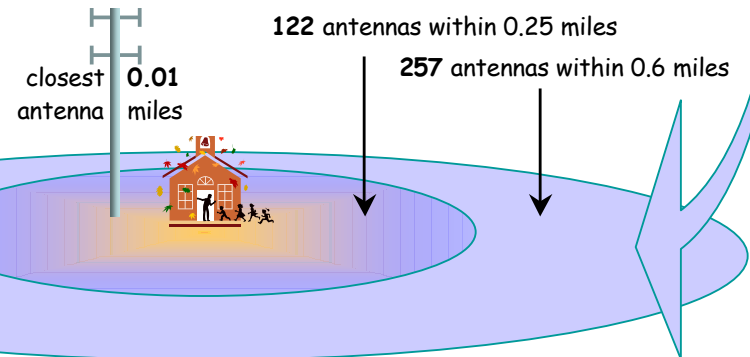


Worst Cases!

The **Worst BRAG™ Schools** found in Hartford, CT had ...

- Closest antenna to a school - **0.01 miles** away!
- Antennas within 0.25 miles - **122 antennas!**
- Antennas within 0.6 miles - **257 antennas!**

[Find your favorite school.](#)





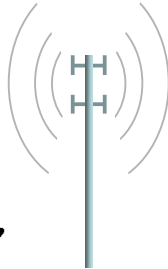
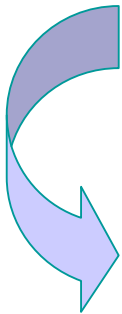
It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

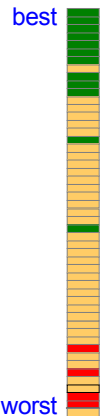
Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Honolulu, Hawaii BRAG™ Antenna Ranking of Schools

### Grade for Honolulu



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



### Honolulu can't BRAG!

Ranked  
**50<sup>th</sup>**

← State Capitol!



### Most schools in Honolulu, HI : BRAG™ RED

Of the 121 schools in Honolulu, HI surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (43% of the schools) fell in the 2nd highest exposure category or BRAG™ red, 11% were classified as black, 41% as amber, and 5% as green.



### Honolulu Overall Grade: 47%

Antennas near schools in Honolulu, HI generated a composite BRAG™ grade for this state capitol of 47% ranking Honolulu the 49<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Honolulu.



### Worst School Cases found in Honolulu, HI:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0.01 miles (~15 meters); 17 antennas within 0.25 miles (~400 meters); or 117 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



### What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools.](#)



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

# 50

State Capitol Ranking



## Honolulu can't BRAG!

Ranked **50<sup>th</sup>** U.S. state capitol.

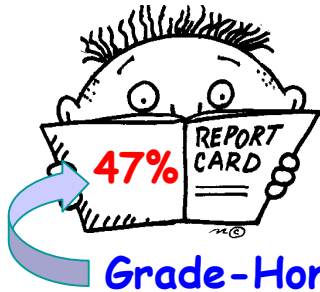
## Honolulu, Hawaii

*BRAG™ Antenna Ranking of Schools*

# 47%



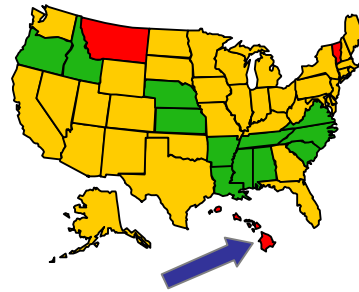
State Capitol Grade



## Grade-Honolulu

### Composite Grade

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.



The **BRAG™ School Color Code** is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.

Antennas	most	●	B	Black
	more	●	R	Red
	some	●	A	Amber
	few	●	G	Green

# AMBER



State Capitol Color Code

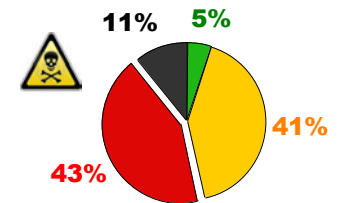


# 43%

### Honolulu Color Code: BRAG™ RED

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (**43%**) in Honolulu, HI are in the **2nd highest exposure category (BRAG™ red)** and only **5%** of the schools are in the lowest category (**BRAG™ green**).

### Honolulu, HI (121 schools)



## ATTENTION NEEDED!

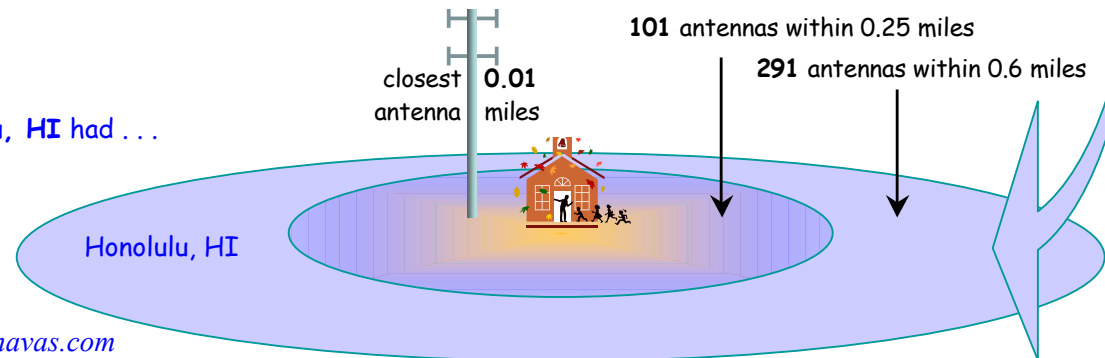


Worst Cases!

The **Worst BRAG™ Schools** found in Honolulu, HI had ...

- Closest antenna to a school - **0.01 miles** away!
- Antennas within 0.25 miles - **101 antennas!**
- Antennas within 0.6 miles - **291 antennas!**

[Find your favorite school.](#)





It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

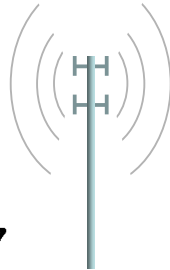
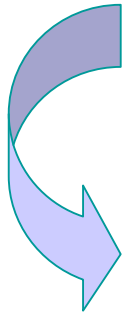
# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

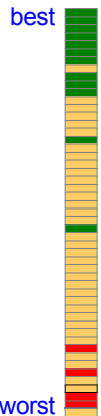
## Boston, Massachusetts

BRAG™ Antenna Ranking of Schools

### Grade for Boston



Composite Grade: 0-100% possible, Lower grade means more antennas nearby with greater potential for microwave exposure.



### Boston can't BRAG!

Ranked  
**51<sup>st</sup>**

← State Capitoll!



Most schools in Boston, MA: BRAG™ **AMBER**

Of the 280 schools in Boston, MA surveyed as part of the BRAG™ Antenna Ranking of Schools, the majority (44% of the schools) fell in the 2nd lowest exposure category or BRAG™ **amber**, 22% were classified as **red**, 27% as **black**, and 7% as **green**.



Boston Overall Grade: **44%**

Antennas near schools in Boston, MA generated a composite BRAG™ grade for this state capitol of 44% ranking Boston the 50<sup>th</sup> school district among state capitols based on the proximity and density of cell phone antennas near schools. See ranking of individual schools in Boston.



Worst School Cases found in Boston, MA:

The schools with the highest potential microwave exposures (from external sources) had an antenna within 0 miles (<15 meters); 304 antennas within 0.25 miles (~400 meters); or 749 antennas within 0.6 miles (~1 km). The more antennas near schools the higher the potential exposure to microwave radiation.



What you can do:

It is important to keep levels of microwave radiation as low as possible and this means microwaves generated by antennas near school property but also by wireless technologies inside school buildings. If you want to improve your school environment see [BRAG™ Recommendations for Schools](#).



It is important to keep levels of microwave radiation as low as possible and this includes microwaves generated by antennas near school property and by wireless technology inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Boston, Massachusetts

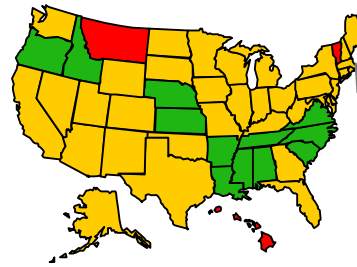
BRAG™ Antenna Ranking of Schools

**Boston can't BRAG!**

Ranked **51<sup>st</sup>** U.S. state capitol.



The BRAG™ School Color Code is based on  
a) the closest antenna to schools,  
b) the number of antennas within 0.25 miles, &  
c) the number of antennas within 0.6 miles.



most	●	B	Black
more	●	R	Red
some	●	A	Amber
few	●	G	Green

Antennas

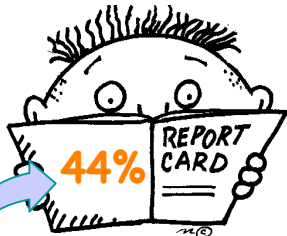
**51**

State Capitol Ranking

**44%**



State Capitol Grade



**Grade-Boston**

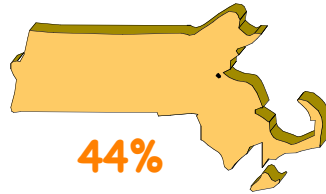
**Composite Grade**

0-100% possible,  
Lower grade means more antennas nearby with greater potential for microwave exposure.

**AMBER**



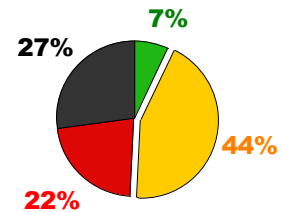
State Capitol Color Code



**Boston Color Code: BRAG™ AMBER**

The percentage of schools in each BRAG™ category are shown on the right. Most of the schools (44%) in Boston, MA are in the 2nd lowest exposure category (BRAG™ amber) and less than 10% of the schools are in the lowest category (BRAG™ green).

**Boston, MA (280 schools)**



**ATTENTION NEEDED!**



Worst Cases!

The **Worst BRAG™ Schools** found in Boston, MA had . . .

- Closest antenna to a school - **0 miles away!**
- Antennas within 0.25 miles - **304 antennas!**
- Antennas within 0.6 miles - **749 antennas!**
- [Find your favorite school.](#)



closest antenna 0 miles

304 antennas within 0.25 miles

749 antennas within 0.6 miles

Boston, MA



# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Part Five

### BRAG™ for

### Recommendations Schools

- ✓ Recommendations
- ✓ Backgrounder
- ✓ Monitoring
- ✓ Mitigation



*John F. Kennedy*

*A child miseducated is a child lost.*





# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## The BRAG™ Antenna Ranking of Schools

## Report

Recommends that . . .



1. **Schools, school districts, all municipalities and states call upon the FCC for a ruling that requires a 1,500 feet setback for any/all wireless infrastructure near schools.** This is the distance at which the scientific literature indicates acute symptoms of electrohypersensitivity are not noticeable and background levels of radiation return to normal from most cellular infrastructure. *Note this does not apply to WiMax, a high-powered series of antennas being installed across the U.S., for which the return to background level distance is likely to be much greater than 1,500 feet.* Symptoms of electrohypersensitivity have been demonstrated at exposures that are a fraction (0.04%) of U.S. exposure guidelines, in part because the guidelines themselves only take into consideration a 30-minute exposure, not chronic exposures. Until guidelines are formally changed to reflect the current science, a policy of "prudent avoidance" would justify setbacks for antenna infrastructures near schools.
2. **Radio frequency radiation in school environments be monitored and documented on a regular basis, and especially after antennas are erected nearby or when new wireless technology is introduced into the school environment.**
3. **If levels of exposure to radiofrequency fields, magnetic fields or dirty electricity exceed the BRAG™ recommendations for these frequencies, that steps be taken to reduce these exposures on school property.**
4. **Health complaints of electrohypersensitivity reported by students and staff be taken seriously, that they be documented, and that appropriate steps be taken in a timely fashion to address the complaint. This involves education of teachers and nursing staff.**

Note: those who want to conduct a BRAG™ antenna search for their school, visit [www.magdahavas.com](http://www.magdahavas.com) for "how to" instructions..



# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*

## Part Five

### BRAG™ for

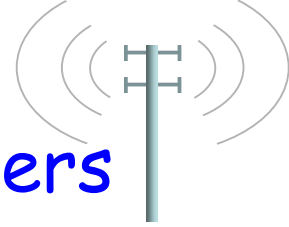
### Recommendations Schools

- ✓ Recommendations
- ✓ Backgrounder
- ✓ Monitoring
- ✓ Mitigation



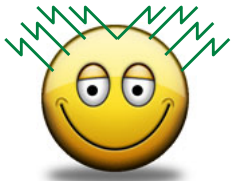
*John F. Kennedy*

*A child miseducated is a child lost.*



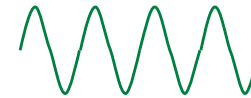
## Backgrounder Meet the BRAG™ characters

There are at least three types of electrosmog in school environments. They include extremely low frequency (ELF) magnetic fields; dirty electricity; and radio frequency radiation. All of these operate at different frequencies (or vibrations) as shown by the signatures and characters below.

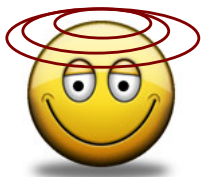
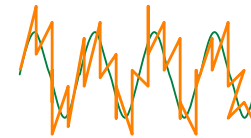


**Magneta Field**  
(magnetic personality, ELF Community)

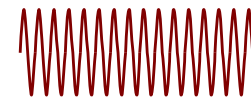
signature

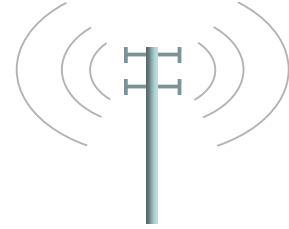


**Doity Power** alias 'Spiky'  
(transient personality, Kilohertz Community)



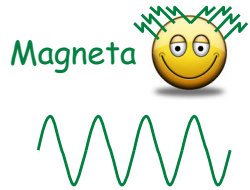
**Radia Frequency**  
(high energy personality, Megahertz Community)





## What is electrosmog?

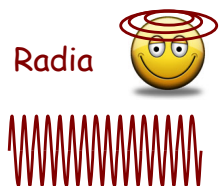
Electrosmog refers to electromagnetic fields (EMF) and radio frequency radiation (RFR) generated by our use of electricity, electronic equipment, and wireless devices. Electrosmog, as it is used here, refers to LOW, INTERMEDIATE or HIGH frequencies within the non-ionizing part of the **electromagnetic spectrum**.



**LOW** frequency, technically called "extremely low frequency" (ELF), vibrates at or below 300 cycles per second (Hertz abbreviated to Hz) and includes electricity in North America at 60 Hz. Computers, photocopy machines, electric heaters, clock radios all generate ELF electric and magnetic fields. The closer someone stands to these devices the higher their exposure is likely to be. Wiring inside buildings can also generate electromagnetic fields, as can power lines or substations near a school.



**INTERMEDIATE** frequency refers to electromagnetic energy vibrating thousands of times per second. It is sometimes referred to as "dirty electricity" and is generated by electronic devices, transformers, fluorescent lighting, and computers. This energy flows along wires and radiates from them. Dirty electricity can also come into schools from nearby buildings. Filters can reduce dirty electricity on wires.

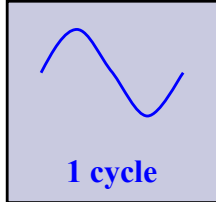


**HIGH** frequency is called "radio frequency radiation" and, at the top end of this scale are "microwaves" and "radar". These frequencies oscillate millions and billions of times per second and are generated by our wireless technology including wireless computers and routers, cell phones, cordless phones, wireless smart boards, smart meters, and wireless audio systems. Nearby cell phone antennas, city-wide WiFi, radio and TV antennas, as well as radar can contribute to exposure on school yards and inside school buildings.

# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Waves

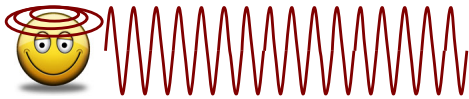


cycles/second = Hertz (Hz)

## Frequencies

### HIGH

Radio Frequency (MHz & GHz)



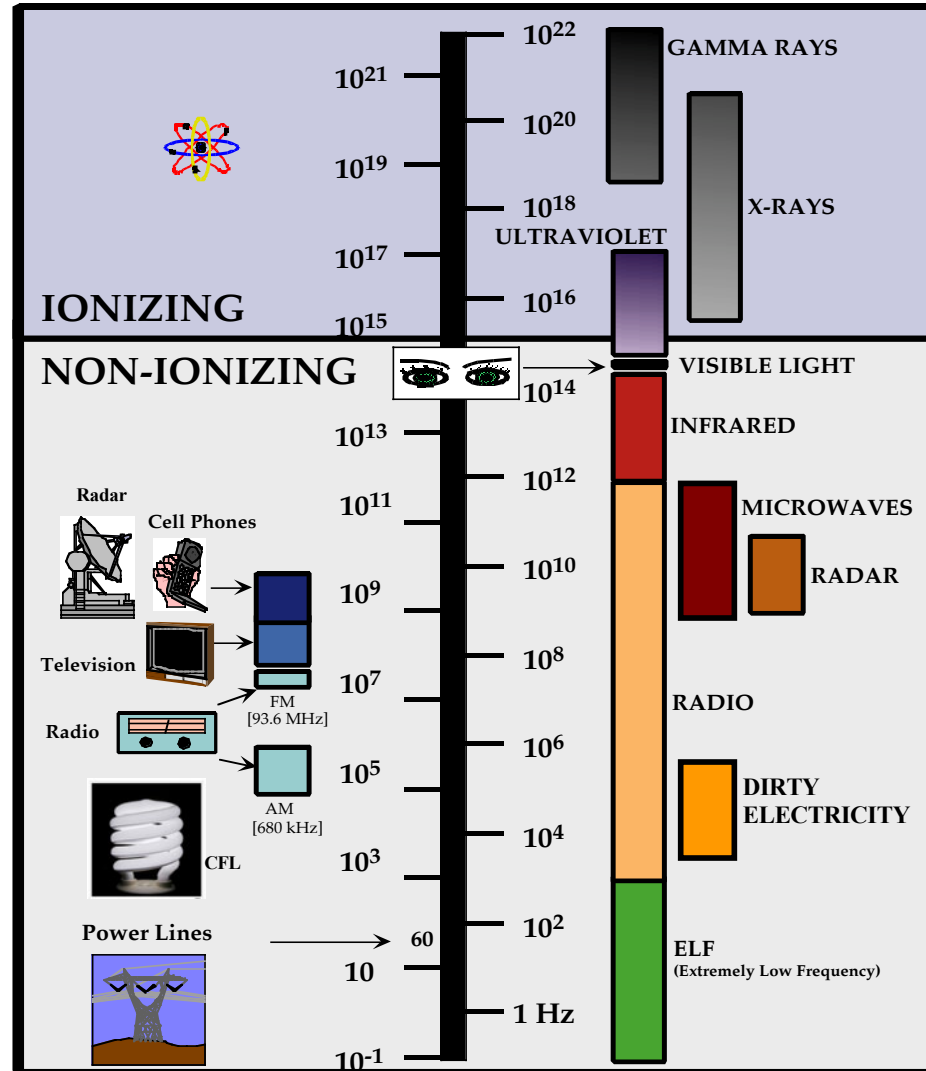
### INTERMEDIATE

Dirty Electricity (kHz)

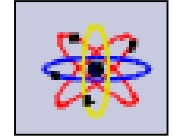


### LOW

Electricity (<60 TO 300 Hz)



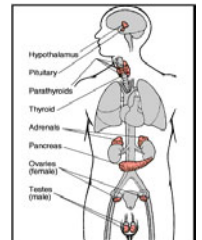
## Effects



**Ionization**  
(subatomic)

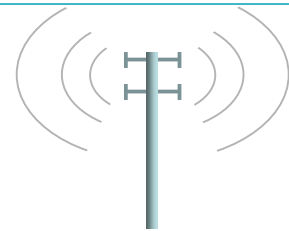


**Thermal**  
(molecular)



**Bio-effects**  
(sub-cellular to organism)

# Electromagnetic Spectrum



## Where does electrosmog come from?

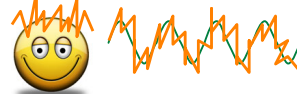
Electrosmog can be generated within a school by computers, lighting, photocopier machines, cordless phones, wireless computers and WiFi antennas. It can also enter school buildings from nearby power lines, transformers, substations, cell phone antennas, radio and TV antennas, and from radar near airports, near military installations, or weather stations.

## Electrosmog

### Electromagnetic Fields



### Dirty Electricity



### Radio Frequency



**frequency**  
cycles/sec (Hz)

LOW  
< 300 Hertz

INTERMEDIATE  
thousands Hertz

HIGH  
millions & billions Hertz

**sources inside**  
schools

building wiring  
electric equipment

electronic equipment  
lighting, computers

wireless technology,  
for example routers, computers  
mobile phones, smart boards,

**sources outside**  
schools

power lines  
substations  
transformers

nearby factories

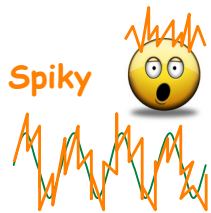
antennas, for example  
cell phone, broadcast,  
radar, city-wide WiFi



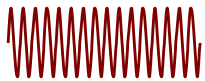
## What are the health effects of electrosmog?



**Extremely LOW frequency (ELF) electromagnetic fields** have been associated with childhood leukemia at levels at or above 2 milli Gauss (mG) [this is the strength of the magnetic field]. The International Association for Research on Cancer (IARC) classified magnetic fields as a class 2B carcinogen (possibly carcinogenic). These fields have been associated with adult cancers (leukemia, brain tumors, and breast cancer) with occupational exposure at values between 2 and 12 mG. Miscarriages have also been linked to high magnetic field exposure during the first trimester of pregnancy (above 16 mG). For this reason it is important to keep magnetic fields in schools as low as possible and definitely below 2 mG. **Refer to scientific references on ELF magnetic fields.**



**INTERMEDIATE frequencies, in the form of dirty electricity,** have been linked to higher blood sugar among diabetics, tremors among those with multiple sclerosis, asthma, and a broad range of symptoms collectively called electrohypersensitivity (EHS). Symptoms of EHS include fatigue, chronic pain, mood disorders including depression and/or anxiety, difficulty concentrating and problems with short-term memory (not ideal in a school setting), nausea, dizziness, ringing in the ears, and skin disorders. These frequencies may contribute to attention deficit disorder, more research is needed to test this. **Refer to scientific references on dirty electricity.**



**HIGH frequencies (radio frequency radiation, microwaves and radar)** produced by wireless technology have been associated with hypersensitivity symptoms mentioned above as well as various types of cancer, especially leukemia for those living near antennas. Use of cell phones and cordless phones has been linked to various tumors of the head (including brain tumors, tumors of the acoustic nerve, eye, and salivary gland). Children are particularly vulnerable. **Refer to scientific references on radio frequency radiation.**

NOTE: The international scientific community has not come to a consensus on the health effects of electromagnetic energy at the frequencies mentioned above. There is controversy about biologically active frequencies and intensities and much remains to be learned about the mechanisms involved. We can wait for the science or we can invoke the "Precautionary Approach" and act now to promote cost-effective measures to reduce exposure and potential damage to the health of our children. Better safe than sorry! See BRAG™ Recommendations.



# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*

## Part Five

### BRAG™ for

### Recommendations Schools

- ✓ Recommendations
- ✓ Backgrounder
- ✓ Monitoring
- ✓ Mitigation

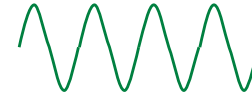
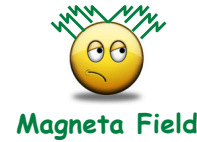


*Eleanor Roosevelt*

*All of life is a constant education.*

## Measuring Electrosmog

The only way to determine if electrosmog is present in your school is to measure it. Ideally this should be done by professionals trained in this area. However, since electrosmog is not recognized as an environmental pollutant there are few agencies that conduct these tests as part of their environmental assessment. In the meantime some of the testing can be done in-house with equipment that is not too expensive. For those schools or school boards that are willing to set aside funding to cover testing equipment, this is what I would recommend.



## How do we know if Magneta Field\* is in our school?

Trifield  
Meter  
magnetic fields



**Extremely Low Frequency (ELF) magnetic fields** can be measured with a trifield meter. This is moderately good for magnetic fields but not for electric fields or for microwave radiation. Levels should be below 2 milliGauss (mG) and preferably below 1 mG in schools. Important to measure at each desk (at floor, seat, and head) for students and staff. Measure near electrical panels, computers, photocopy machines, and other electric equipment. Identify magnetic "hot spots" and make certain that people don't spend time near these areas. Remember that the magnetic field can come from electrical equipment/appliances, electrical wiring, and from external sources including power lines, substations, and transformers. The closer you move toward the source the higher the readings will be. Distance can make a difference in exposure to magnetic fields.

Elektrosmog  
Analyser  
magnetic & electric fields



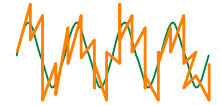
Trifield meters are made in the US by AlphaLab Inc. I recommend the EX100 Version. Cost under \$150. More expensive and more accurate meters (for example GigaHertz Solutions ME3851A) are available at [www.lessemf.com](http://www.lessemf.com).

Disclaimer: The author of this report does not receive any financial benefits related to the sale of any of the products mentioned in this document. They are provided here for those who want to start monitoring. Other products are available at the websites mentioned and at other sites.

\*Magneta Field is the BRAG™ character for magnetic field.

## How do we know if

## Doity Power\* is in our school?



'Spiky' Doity Power



**Microsurge Meter**  
to measure dirty electricity

**INTERMEDIATE frequencies or dirty electricity** on wires can be measured with a microsurge meter. You plug this meter into an electrical outlet and it will provide information on the amount of dirty electricity on the wires measured in GS units. These units are frequency and intensity dependent and measure the "energy" associated with high frequency microsurgers or spikes on wiring from 4 to 150 kHz. For more information about dirty electricity visit [www.electricalpollution.com](http://www.electricalpollution.com).

Ideally the values should be less than 40 GS units but many schools will have values in the 100s and some will have readings above 1,000. A study in California showed that teachers had a higher risk of cancer if they ever taught in a room where the readings were above, 2000 GS units (see Milham and Morgan 2009). It is important to test outlets in classrooms and offices where people spend hours each day.



**GS Filter**  
to reduce dirty electricity  
between the range of 4 to 100 kHz

If your school has dirty electricity, the levels can be reduced with special power surge filters. Some work at kHz frequencies (GS filter) and some at MHz frequencies (Belkin). Using both of these surge suppressors provides an inexpensive insurance policy against dirty electricity and also protects sensitive computer equipment. KHz frequencies are easy to measure with a GS meter, however, MHz frequencies are more difficult to measure and require expensive monitoring equipment (scope meter).

The microsurge meter and GS GS filters are produced by Stetzer Electric in Blair, Wisconsin and are available at [www.stetzerelectric.com](http://www.stetzerelectric.com). Belkin surge suppressors can be purchased at hardware stores.



**Belkin Surge Suppressors**  
to reduce dirty electricity in the range of  
150 kHz to 100 MHz

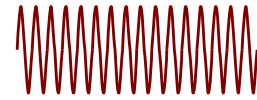


**Disclaimer:** The author of this report does not receive any financial benefits related to the sale of any of the products mentioned in this document. They are provided here for those who want to start monitoring. Other products are available at the websites mentioned and at other sites.

\*Doity Power is the BRAG™ character for dirty electricity.

## How do we know if

## Radio Frequency\* is in our school?



Radio Frequency



### Electrosmog Detector

to measure radio frequency radiation  
50 to 3000 MHz

**HIGH frequencies (radio frequency radiation, microwaves and radar)** from wireless technology can be measured using a variety of meters that vary in price, accuracy, and frequency range.

The Electrosmog Detector is an inexpensive (~\$100) and useful meter that detects frequencies from 50 MHz to 3000 MHz. This includes cell phone frequencies, DECT cordless phone frequencies, WiFi and even microwave ovens. All of these sources emit microwave frequencies and the detector provides an audio output that relates to the type and intensity of exposure. See [www.safelivingtechnologies.ca](http://www.safelivingtechnologies.ca) for examples. The closer the source and the higher the intensity of radio frequency radiation, the louder the sound emitted by this meter. This meter is ideal for detecting exposure and locating the source. However, it does not provide an actual reading of power density.



### High Frequency Meter

to measure radio frequencies  
800 MHz to 2.5 GHz

Accurate meters that measure a broad range of frequencies are expensive (hundreds to thousands of dollars). For a list of recommended meters visit [www.microwavenews.com](http://www.microwavenews.com) (EMF/EMR meters), [www.lessemf.com](http://www.lessemf.com) and [www.emfsafetystore.com](http://www.emfsafetystore.com).



### Spectran Analyzer

to measure radio frequencies  
100 MHz to 6 GHz



### 8 GHz RF Meter

to measure radio frequencies  
10 MHz to 8 GHz

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\*Radio Frequency is the BRAG™ character for radio frequency radiation including microwave radiation.



# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## Part Five

### BRAG™ for

### Recommendations Schools

- ✓ Recommendations
- ✓ Backgrounder
- ✓ Monitoring
- ✓ Mitigation



Margaret Mead

*Never doubt that a small group of thoughtful, committed people can change the world. Indeed, it is the only thing that ever has.*



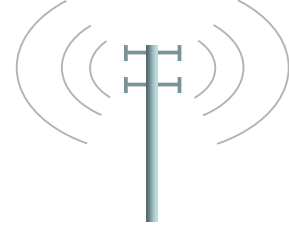


# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## BRAG™ Recommendations for Schools

How to minimize **Magnetic Fields** and establish good electromagnetic hygiene.



Ideally magnetic fields should be less than 1 milliGauss (mG). Levels of 2 to 4 mG have been associated with childhood leukemia. Levels of 2 to 12 mG have been associated with breast cancer as well as adult leukemia and brain tumors. Levels of 16 mG have been associated with increased risk of miscarriages (Havas 2000). Magnetic fields have been classified by the National Institute of Environmental Health Sciences as a Class 2b Carcinogen, "possibly carcinogenic".

### What to do . . .

- If the magnetic field is coming from **electric/electronic sources** (computers, photocopy machine, etc.), move the equipment further away from where students and staff work. Even a few feet can make a big difference. This is particularly important at computer work stations. Aim to have levels of magnetic fields less than 1 milliGauss, if possible.
- If the magnetic field is coming from **wiring inside the wall or under the floor**, move desks far enough away to reduce the magnetic field to less than 1 mG, if possible.
- In some cases, faulty wiring can lead to high magnetic fields and this requires rewiring.
- If the magnetic field is coming from **power lines, transformers, or substations** outside the school, little can be done to reduce exposure within the school without expensive shielding. High voltage power lines should not be built near schools.

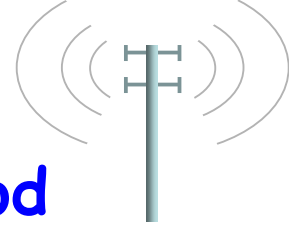


# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*

## BRAG™ Recommendations for Schools

How to minimize **Dirty Electricity** and establish good electromagnetic hygiene.



Little research has been done on the biological effects of dirty electricity. What research exists shows that dirty electricity exacerbates symptoms of asthma among school children, diabetes, multiple sclerosis, and symptoms of electrohypersensitivity that include difficulty concentrating, poor short-term memory, dizziness, nausea, depression, anxiety, fatigue, pain, skin problems, ringing in the ears, etc. It may be related to ADD/ADHD and possibly to autism, although much of the evidence is anecdotal. A scientific study that involved reducing dirty electricity in three Minnesota schools documented improvements in the health, mood and energy of teachers and the behavior of students. Teachers in classrooms with high levels of dirty electricity (>2000 GS units) have a greater risk of developing cancer according to a study in a California school.

### What to do . . .

- Until electronic equipment is manufactured without producing dirty power, filters are necessary to keep the levels of dirty electricity as low as possible
- Ideally dirty electricity should be less than 40 GS units on a microsurge meter. If levels within a classroom are higher, they can be reduced with appropriate filters/capacitors that plug into an electrical outlet.
- A school needs 2 GS filters for each computer, photocopy machine, television set. If fluorescent lighting is used, additional filters may be required (see information about filters on page 158).



# BRAG™ Antenna Ranking of Schools

Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols

## BRAG™ Recommendations for Schools

## How to minimize Radio Frequency Radiation and establish good electromagnetic hygiene.



Radio frequency and microwave radiation at levels below existing federal guidelines have been shown to have adverse biological and health effects. Studies report increased incidence of cancers and symptoms of electrohypersensitivity near cell phone antennas, often within 300 and 400 meters (~0.25 miles) and at levels that are less than 0.1% of existing guidelines (see references in Part Six). Symptoms include fatigue, sleep disturbances, headaches, depression, difficulty concentrating, memory loss, visual and hearing disruptions, irritability, cardiovascular problems, skin problems, and dizziness. Symptoms such as these would be counterproductive to learning in a school setting. If staff or students experience these symptoms, the school should be monitored for electrosmog, for chemical exposure, and for mold. It is highly recommended that schools classified as BRAG™ **red** or **black** be monitored for radio frequency radiation. If levels in classrooms exceed  $0.1 \text{ microW/cm}^2$ , steps need to be taken to reduce exposure.

### What to do . . .

- Replace wireless technology (cordless phones, wireless routers, wireless headsets) with wired technology within the school building. Fiber optic technology is faster, more secure than wireless routers and it does not emit microwave radiation.
- Do not permit cell phone, broadcast, or radar antennas near schools. Cell phone antennas should be at least 1,500 feet away, and broadcast and radar antennas, depending on their strength, should be at least 2 miles away from schools.
- If antennas are near school property and radiation levels within the school are above  $0.1 \text{ microWatts/cm}^2$ , then special film can be placed on windows to reflect the radiation and special paint can be put on walls and ceilings to keep the levels as low as possible.
- It is important NOT to renew licenses of antennas near schools once they expire.

## Part Six Sources & Links

- ✓ Web Sites . . .
- ✓ Scientific Reports . . .
- ✓ School Links . . .
- ✓ References . . .
  - ✓ Magnetic Fields
  - ✓ Dirty Electricity
  - ✓ Radio Frequency Radiation
- ✓ Facebook: Radiation FreeSchools



*Barack Obama*

*We are the change that we seek.*



# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*

## Web Sites on Electrosmog and ElectroSensitivity

[www.antennafreeunion.org](http://www.antennafreeunion.org)

[www.bevolution.dk](http://www.bevolution.dk)

[www.bioInitiative.org](http://www.bioInitiative.org)

[www.buergerwelle.de/cms/content/view/57/70](http://www.buergerwelle.de/cms/content/view/57/70)

[www.cloutnow.org](http://www.cloutnow.org)

[www.electricalpollution.com](http://www.electricalpollution.com)

[www.electromagnetichealth.org](http://www.electromagnetichealth.org)

[www.emfacts.com](http://www.emfacts.com)

[www.emrnetwork.org](http://www.emrnetwork.org)

[www.emrpolicy.org](http://www.emrpolicy.org)

[www.emwatch.com](http://www.emwatch.com)

[www.es-uk.info](http://www.es-uk.info)

[www.expelcelltowers.org](http://www.expelcelltowers.org)

[www.feb.se/index\\_int.htm](http://www.feb.se/index_int.htm)

[www.hese-project.org/hese-uk/en/main/index.php](http://www.hese-project.org/hese-uk/en/main/index.php)

[www.icnirp.de/activities.htm](http://www.icnirp.de/activities.htm)

[www.magdahavas.com](http://www.magdahavas.com)

[www.mastsanity.org](http://www.mastsanity.org)

[www.mast-victims.org](http://www.mast-victims.org)

[www.microwavenews.com](http://www.microwavenews.com)

[www.powerwatch.org.uk](http://www.powerwatch.org.uk)

[www.publichealthSOS.com](http://www.publichealthSOS.com)

[www.radiationresearch.org](http://www.radiationresearch.org)

[www.wave-guide.org/index.html](http://www.wave-guide.org/index.html)

[www.weepinitiative.org](http://www.weepinitiative.org)

[www.wifiinschools.org.uk](http://www.wifiinschools.org.uk)

[www.wiredchild.org](http://www.wiredchild.org)



# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*

## Scientific Reports & Abstracts

## EMF Health-Effects Research

[cell-phone-dangers.com/research/cellPhonePrecautionPittsburgh.html](http://cell-phone-dangers.com/research/cellPhonePrecautionPittsburgh.html)

[www.BioInitiative.org](http://www.BioInitiative.org)

[www.chrc-ccdp.ca/research\\_program\\_recherche/esensitivities\\_hypersensibilitee/toc\\_tdm-en.asp](http://www.chrc-ccdp.ca/research_program_recherche/esensitivities_hypersensibilitee/toc_tdm-en.asp)

[electricwords.emfacts.com](http://electricwords.emfacts.com)

[www.europarl.europa.eu/sides/getDoc.do?pubRef=-//EP//TEXT+TA+P6-TA-2009-0216+0+DOC+XML+V0//EN](http://www.europarl.europa.eu/sides/getDoc.do?pubRef=-//EP//TEXT+TA+P6-TA-2009-0216+0+DOC+XML+V0//EN)

[www.feb.se/emfguru/CellPhone/probable-health/Probable-health.htm](http://www.feb.se/emfguru/CellPhone/probable-health/Probable-health.htm)

[www.iaff.org/hs/Facts/CellTowerFinal.asp](http://www.iaff.org/hs/Facts/CellTowerFinal.asp)

[www.iegmp.org.uk](http://www.iegmp.org.uk)

[www.icems.eu](http://www.icems.eu)

[www.niehs.nih.gov/health/topics/agents/emf](http://www.niehs.nih.gov/health/topics/agents/emf)

[www.psrast.org/mobileng/mobilstarteng.htm](http://www.psrast.org/mobileng/mobilstarteng.htm)

[www.who.int/peh-emf/en](http://www.who.int/peh-emf/en)

[www.wifiinschools.org.uk/6.html](http://www.wifiinschools.org.uk/6.html)





# BRAG™ Antenna Ranking of Schools

*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*

## School Links

## Cell Towers and WiFi

- Greenwich Delegation introduces Legislation on Cell Towers next to Schools or Daycares, Feb 10, 2010. [repfloren.com/?p=163](http://repfloren.com/?p=163)
- Wi-Fi in the Classroom: Health advice to schools [www.scribd.com/doc/24004604/Wi-Fi-in-the-Classroom-Health-Advice-to-Schools](http://www.scribd.com/doc/24004604/Wi-Fi-in-the-Classroom-Health-Advice-to-Schools)
- Cell Phone Antennas Blamed for Kindergarten Cancer Cases, Jan 2010. [www.chicagotribune.com/news/wpix-cancer-bayville-school,0,7715148.story](http://www.chicagotribune.com/news/wpix-cancer-bayville-school,0,7715148.story)
- Cell Phone Towers / Antennas harm health with dangerous levels of Radiofrequency Radiation. Jan. 2010. (RFR). [emfjournal.com/2010/01/14/cell-phone-towersantennas-harm-health-with-dangerous-levels-of-radiofrequency-radiation-rfr](http://emfjournal.com/2010/01/14/cell-phone-towersantennas-harm-health-with-dangerous-levels-of-radiofrequency-radiation-rfr)
- Debate continues over health hazards of Internet antennas, Jan 2010 [www.contracostatimes.com/news/ci\\_14241312?nclick\\_check=1](http://www.contracostatimes.com/news/ci_14241312?nclick_check=1)
- [www.expelcelltowers.org](http://www.expelcelltowers.org)
- [www.wiredchild.org](http://www.wiredchild.org)
- [www.wifiinschools.org.uk](http://www.wifiinschools.org.uk)
- [www.feb.se/Bridlewood/index.html](http://www.feb.se/Bridlewood/index.html)
- [www.emfeffectsonkids.com/EMF%20Effects/index.html](http://www.emfeffectsonkids.com/EMF%20Effects/index.html)



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*Survey of schools exposed to radio frequency radiation from neighborhood antennas in U.S. State Capitols*

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Blank, M. 2007. *A Scientific Perspective on Health Risk of Electromagnetic Fields: Research on the Stress Response*, Bioinitiative Report, 40 pp. [www.bioinitiative.org](http://www.bioinitiative.org).

Cantor, KP, et al. 1995. Re: Breast cancer mortality among female electrical workers in the United States. *J Natl Cancer Inst.*

Coogan, PF, et al. 1996. Occupational exposure to 60-hertz magnetic fields and risk of breast cancer in women. *Epidemiology* 7:5, 459-64.

Demers, P.A., et al. 1991. Occupational exposure to electromagnetic fields and breast cancer in men. *Am. J. Epidemiol.* **134**: 340-347.

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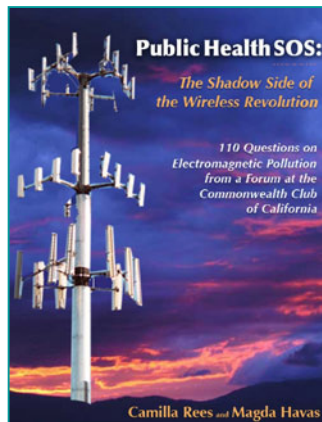
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## This is just the beginning . . .



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([www.amazon.com](http://www.amazon.com))