

Report Algae Blooms

What is a Toxic Algae Bloom? Algae are simple plant-like organisms that grow in marine, estuarine, fresh water lakes, rivers, canal systems and even pools. Water with an oversupply of nutrients, such as fertilizer, which are warm and slow moving encourage an overgrowth of algae, called an algal bloom. (Picture 1) Algae can be as a green, red or yellowish brown scum that floats on the surface of the water.

Most algae is not harmful, but some "blue-green" algae, and algae that produce "red tide" make harmful toxins (picture 2). Algae scum will stop sunlight from reaching plant life below, killing it and the marine life that depends on it. The dead material on the bottom feed more algae and bacteria growth.

How is climate change related to algae blooms?

Heavy rain falls flush fertilizers from lawns and fields into the retention ponds and canals. This, along with warmer water temperatures create favorable conditions for algae blooms. Conversely, during droughts, lower water levels allow ponds and canals to get warmer and move less, creating favorable conditions for algae.

What residents need to know. It's not possible to distinguish between toxic and non-toxic algae by looking at or smelling the water. Report algae blooms to local or state authorities so the water can be tested.

- Don't swim or wade in water with algae and keep children and pets away from algae waters.
- Do not fish or eat shell fish from contaminated areas. Toxic algae can cause neurological liver and kidney problems in eaten.
- The algae toxins can be aerosolized by waves and wind and inhaled by people living around the ponds and streams. It will aggravate respiratory illnesses like asthma.

The bacterial concentration in algal water can poses a risk to humans and animals.

Key websites

<http://www.epa.gov/nutrientpollution/harmful-algal-blooms>

<http://www.cdc.gov/healthcommunication/toolstemplates/entertainment/tips/algalblooms>.

1



2



Health Impacts

Sore throat, coughing
Difficulty breathing, wheezing
Skin rashes
Headaches
Vomiting/diarrhea
Tingling in fingers and toes
Liver and kidney failure

Who is at high risk?

- Children and pets that come in contact with water and ingest it accidentally.
- Fisherman and people that catch or eat contaminated fish from toxic algae water.
- People with asthma or respiratory illness that inhale toxins that get into the air.

Report Algae Blooms to
Department of Environmental Protection
Bureau of Labs, Biology Section in Tallahassee
(850)245-8159 <http://www.dep.state.fl.us/labs/>
or the Department of Health Aquatic Toxins
Program (850) 245-4250
phthotoxicology@FLHealth.gov