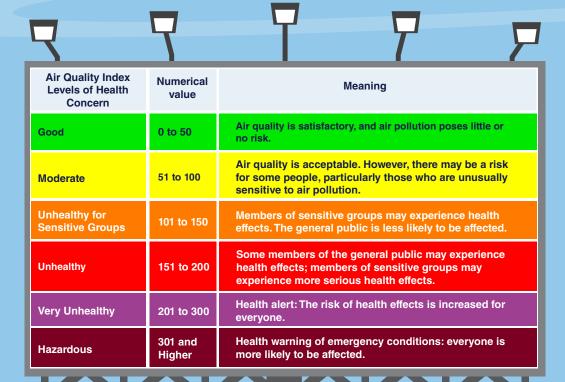
All About A

What is air quality? Earth's atmosphere is mostly made up of two gases: nitrogen and oxygen. Air also contains small amounts of many other gases and particles. Air quality is a measure of how clean or polluted the air is by common air pollutants. Monitoring air quality is important because polluted air is bad for human health and the environment.



Air quality is communicated using the Air Quality Index (AQI). The AQI has six categories that communicate the level of health concern using specific colors.



AQI tracks five major air pollutants:

Ground-level ozone

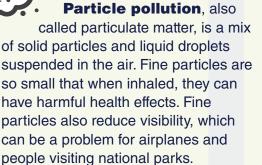
Nitrogen dioxide

- Particle pollution
- Carbon monoxide
- Sulfur dioxide

NO-ZONE

Ground-Level Ozone?

Ozone is a gas you've probably heard of as a protective layer high up in Earth's atmosphere. This ozone layer is a good thing — it helps block harmful ultraviolet radiation from the Sun. But ground-level ozone is bad for human health. Pollutants react in sunlight to make ozone. These come from natural and man-made sources, including cars, power plants, and wildfires.



Particle pollution is released from many sources, like construction sites, smokestacks, wildfires, or volcanoes. But most particle pollution is created in the atmosphere from chemical reactions with other pollutants such as sulfur dioxide and nitrogen dioxide.



Ground-level ozone and particle pollution are the two air pollutants that pose the greatest threat to human health.





Instruments on the ground and satellites orbiting Earth measure air quality conditions. NOAA's Geostationary Operational Environmental Satellites-R (GOES-R) Series satellites track particle pollution in the US using the Advanced Baseline Imager (ABI) instrument every five to ten minutes during daytime.