

## Federal and State Ambient Air Quality Standards

The U.S. Environmental Protection Agency (EPA) sets *National Ambient Air Quality Standards (NAAQS)* to protect public health and welfare from harmful effects of certain commonly occurring pollutants known as “criteria” pollutants. The EPA requires that states monitor the ambient air to determine attainment of the NAAQS and regulate industries that emit these and other pollutants.

Two types of standards have been established. **Primary standards** set limits to protect public health, including the health of sensitive populations such as asthmatics, children, and the elderly. **Secondary standards** set limits to protect public welfare which includes protection against decreased visibility, and damage to animals, crops, vegetation, and buildings.

**Ambient Air Quality Standards**

Air Pollutant	Hawaii Standard	Federal Primary Standard	Federal Secondary Standard
<b>Carbon Monoxide</b> 1-hour average 8-hour average	9 ppm 4.4 ppm	35 ppm 9 ppm	None None
<b>Lead</b> 3-month average	1.5 µg/m <sup>3</sup> (calendar quarter)	0.15 µg/m <sup>3</sup> (running 3-month)	Same as primary
<b>Nitrogen Dioxide</b> 1-hour average Annual average	None 0.04 ppm	100 ppb 53 ppb	None Same as primary
<b>Particulate Matter (PM<sub>10</sub>)</b> 24-hour block average Annual average	150 µg/m <sup>3</sup> 50 µg/m <sup>3</sup>	150 µg/m <sup>3</sup> None	Same as primary None
<b>Particulate Matter (PM<sub>2.5</sub>)</b> 24-hour block average Annual average	None None	35 µg/m <sup>3</sup> 12 µg/m <sup>3</sup>	Same as primary 15 µg/m <sup>3</sup>
<b>Ozone</b> 8-hour rolling average	0.08 ppm	0.070 ppm	Same as primary
<b>Sulfur Dioxide</b> 1-hour average 3-hour block average 24-hour block average Annual average	None 0.5 ppm 0.14 ppm 0.03 ppm	75 ppb - None None	None 0.5 ppm - -
<b>Hydrogen Sulfide</b> 1-hour average	25 ppb	None	None

ppb = parts per billion by volume

ppm = parts per million by volume

µg/m<sup>3</sup> = micrograms per cubic meter of air