

Air Pollution Sources

Major Man-Made Air Pollutants

| POLLUTANT | DESCRIPTION | SOURCES | SIGNS/ EFFECTS |
|------------------------------------|---|--|--|
| Carbon monoxide (CO) | <ul style="list-style-type: none"> colorless, odorless gas | <ul style="list-style-type: none"> vehicles burning gasoline indoor sources, including kerosene, wood-burning, natural gas, coal, or wood-burning stoves and heaters | <ul style="list-style-type: none"> headaches, reduced mental alertness, death heart damage |
| Lead (Pb) | <ul style="list-style-type: none"> metallic element | <ul style="list-style-type: none"> vehicles burning leaded gasoline metal refineries lead paint | <ul style="list-style-type: none"> brain and kidney damage contaminated crops and livestock |
| Nitrogen oxides (NO _x) | <ul style="list-style-type: none"> gaseous compounds made up of nitrogen and oxygen | <ul style="list-style-type: none"> vehicles power plants burning fossil fuels coal-burning stoves | <ul style="list-style-type: none"> lung damage react in atmosphere to form acid rain deteriorate buildings and statues damage forests form ozone & other pollutants (smog) |
| Ozone (O ₃) | <ul style="list-style-type: none"> gaseous pollutant | <ul style="list-style-type: none"> vehicle exhaust and certain other fumes formed from other air pollutants in the presence of sunlight | <ul style="list-style-type: none"> lung damage eye irritation respiratory tract problems damages vegetation smog |
| Particulate matter | <ul style="list-style-type: none"> very small particles of soot, dust, or other matter, including tiny droplets of liquids | <ul style="list-style-type: none"> diesel engines power plants industries windblown dust wood stoves | <ul style="list-style-type: none"> lung damage eye irritation damages crops reduces visibility discolors buildings and statues |
| Sulphur dioxide (SO ₂) | <ul style="list-style-type: none"> gaseous compound made up of sulphur and oxygen | <ul style="list-style-type: none"> coal-burning power plants and industries coal-burning stoves refineries | <ul style="list-style-type: none"> eye irritation lung damage kills aquatic life reacts in atmosphere to form acid rain damages forests deteriorates buildings and statues |

Source: EPA's Project A.I.R.E. <http://www.epa.gov/region01/students/teacher/airqual.html>.