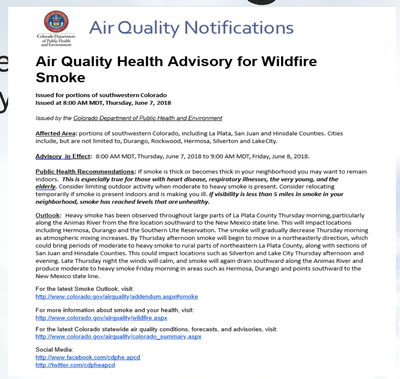
# Colorado Department of Public Health & Environment

## Air Pollution Control Division

## Air Quality Forecast & Monitoring

Visit the Air Pollution Control Division Air Quality Homepage https://www.colorado.gov/airquality for current air quality information, including:

- Air Quality Health Advisories for Wildfire Smoke, Ozone, and Blowing Dust
- Colorado Smoke Outlook
- Daily Air Quality Summary and Forecast


Air Quality Notifications

**Air Quality Health Advisory for Wildfire Smoke**

**Issued for portions of southwestern Colorado**
**Issued at 8:00 AM MDT, Thursday, June 7, 2018**

*Issued by the Colorado Department of Public Health and Environment*

**Affected Area**: portions of southwestern Colorado, including La Plata, San Juan and Hinsdale Counties. Cities include, but are not limited to, Durango, Rockwood, Hermosa, Silverton and Lake City.

**Advisory in Effect**: 8:00 AM MDT, Thursday, June 7, 2018 to 9:00 AM MDT, Friday, June 8, 2018.

**Public Health Recommendations**: If smoke is thick or becomes thick in your neighborhood you may want to remain indoors. ***This is especially true for those with heart disease, respiratory illnesses, the very young, and the elderly.*** Consider limiting outdoor activity when moderate to heavy smoke is present. Consider relocating temporarily if smoke is present indoors and is making you ill. ***If visibility is less than 5 miles in smoke in your neighborhood, smoke has reached levels that are unhealthy.***

**Outlook**: Heavy smoke has been observed throughout large parts of La Plata County Thursday morning,particularly along the Animas River from the fire location southward to the New Mexico state line. This will impact locations including Hermosa, Durango and the Southern Ute Reservation. The smoke will gradually decrease Thursday morning as atmospheric mixing increases. By Thursday afternoon smoke will begin to move in a northeasterly direction, which could bring periods of moderate to heavy smoke to rural parts of northeastern La Plata County, along with sections of San Juan and Hinsdale Counties. This could impact locations such as Silverton and Lake City Thursday afternoon and evening. Late Thursday night the winds will calm, and smoke will again drain southward along the Animas River and produce moderate to heavy smoke Friday morning in areas such as Hermosa, Durango and points southward to the New Mexico state line.

For the latest Smoke Outlook, visit:
http://www.colorado.gov/airquality/addendum.aspx#smoke

For more information about smoke and your health, visit:
http://www.colorado.gov/airquality/wildfire.aspx

For the latest Colorado statewide air quality conditions, forecasts, and advisories, visit:
http://www.colorado.gov/airquality/colorado_summary.aspx

Social Media:
http://www.facebook.com/cdphe.apcd
http://twitter.com/cdpheapcd


CDPHE Air Pollution
@cdpheapcd

The below picture taken just north of Durango (cotrip.org) says it all. Air quality again very unhealthy and another large plume of smoke expected this afternoon. Air Quality Health Advisory once again extended: colorado.gov/airquality/col… #416Fire #BurroFire #cofire

8:09 AM - 10 Jun 2018

24 Retweets 21 Likes

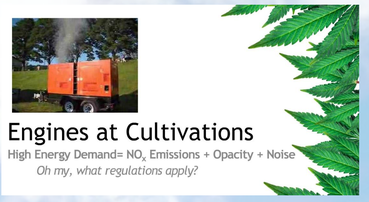
Signup for Air Quality Health Advisory email alerts at:
https://www.colorado.gov/airquality/request_alerts.aspx

Follow our efforts and join the discussion!

www.facebook.com/cdphe.apcd

http://twitter.com#!/cdpheapcd


## Colorado Air Quality Collaboration



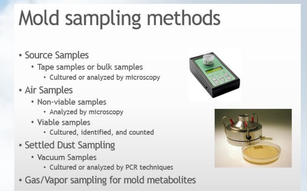
Environmental Outreach to the Cannabis Industry in Colorado, Kaitlin Urso, Small Business Assistance Program

Providing local governments with a direct line of contact in the Air Pollution Control Division, the Air Quality Collaboration provides both technical and policy expertise to assist regional leaders in their efforts to improve and learn about air quality across Colorado.

Education is conducted though webinars on air quality related topics that are voted upon by the collaboration members.

Presentation topics include:

- Wildfire Outlook and Response
- Clean Car Regulations
- Indoor Air Quality
- Air Quality and Colorado Industries



Mold: The Fungus Among Us, Roberta Smith, Occupational Health Manager


What's it take to be a Wildland Firefighter? Dr. Amber Ortega, Air Quality Meteorologist

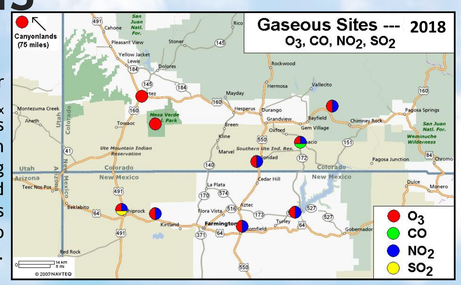
Get more information at:
https://www.colorado.gov/cdphe/western-colorado-regional-air-quality-collaboration

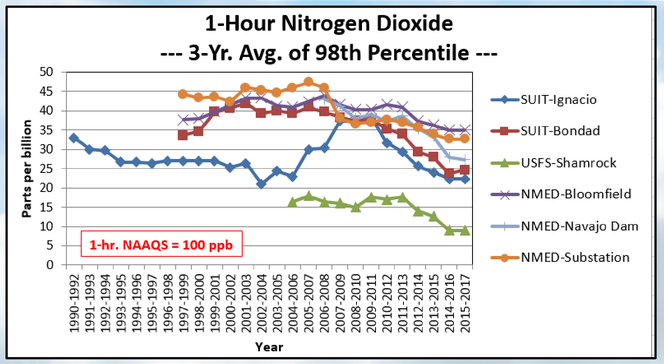
## Ozone/$NO_x$ Regional Trends

**Nitrogen Oxides ($NO_x$)**

- Primarily nitrogen dioxide ($NO_2$) and nitric oxide (NO). Plays a major role in ozone formation ("ozone precursor") particulate matter, haze and acid rain.
- Health effects: increase in respiratory problems, causes symptoms in asthmatics & increases susceptibility to respiratory infections.
- Significant sources including: burning fuel in automobiles, industrial engines and power plants.

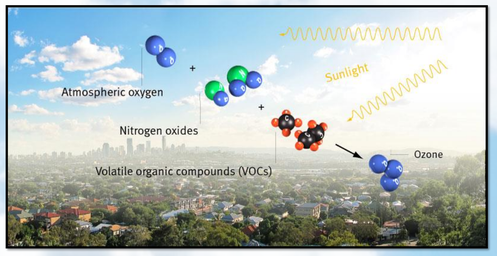
This map shows the air monitors from which the $NO_x$ and ozone trend data was collected. CDPHE works with federal partners including the U.S. Forest Service and the National Park Service as well as other states to compile this data.



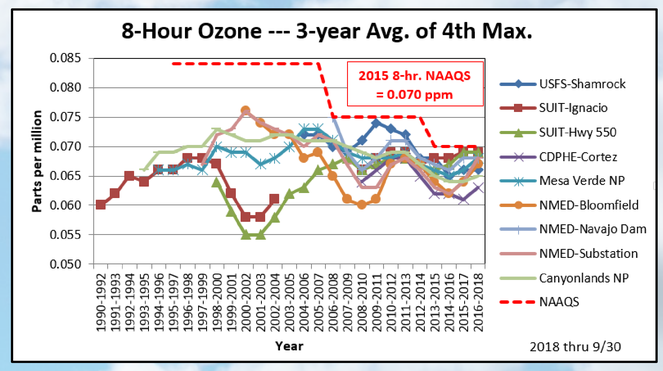




**Ozone:**

- Formed through interaction between volatile organic compounds (VOCs) & nitrogen oxides ($NO_x$) in presence of sunlight. Colorless and odorless at ambient concentrations. Typically not emitted from individual sources directly.




- Highest ground-level ozone concentrations usually occur in the summer when hot, still days cause reactive pollutants to form ozone. However, high ozone levels have been observed in winter in areas with high oil and gas production activities.
- Health effects: causes breathing difficulties & respiratory infections in the elderly, the young & those with preexisting ailments such as asthma. Can cause premature mortality. Healthy people who exercise or work outdoors can experience respiratory effects from ozone.




- Significant sources include emissions from motor vehicles, industry, oil and gas production, and vegetation contribute to ozone formation.