



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

Air District Overview

July 23, 2020

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Communications Office





OUR MISSION

The Air District aims to create a healthy breathing environment for every Bay Area resident while protecting and improving public health, air quality, and the global climate.





THE AIR DISTRICT

- Established in 1955
- 9-county jurisdiction
- 101 cities
- 5,340 square miles
- Board of 24 elected officials
- Serve 7 million residents



Bay Area Air District

Regulates emissions from
stationary sources

Cities and Counties

Make land-use planning
decisions

**Working together
with the public to
protect the air!**

**Department of Toxic
Substances Control**

Sets California regulations
on toxic substances

**California Air
Resources Board**

Regulates mobile
emissions via fuel and
auto standards

**Office of
Environmental Health
and Hazard Office**

Evaluates risk posed by
hazardous substances

**U.S. Environmental
Protection Agency**

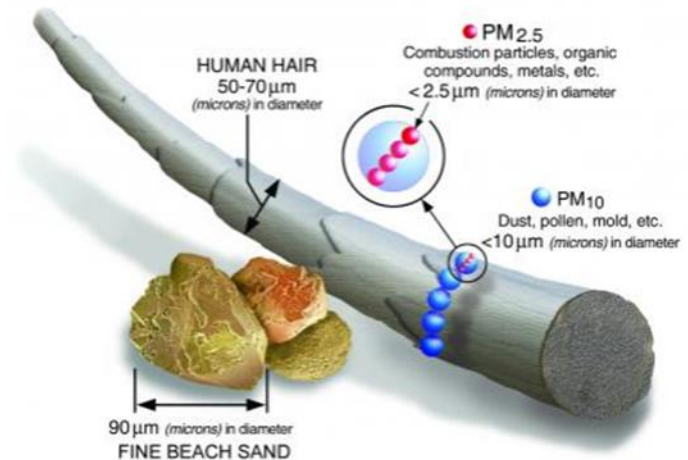
Sets national health
standards for air quality



AIR QUALITY AND YOUR HEALTH

- **Particulate Matter:**

- Lung irritation, and increased permeability in lung tissue
- Aggravate severity of chronic lung diseases and rapid loss of airway function
- Changes in blood chemistry that can result in clots that may lead to heart attacks
- Increase susceptibility to viral and bacterial pathogens leading to pneumonia in vulnerable persons



Size comparisons for PM particles



AIR QUALITY AND YOUR HEALTH

- **Ozone:**

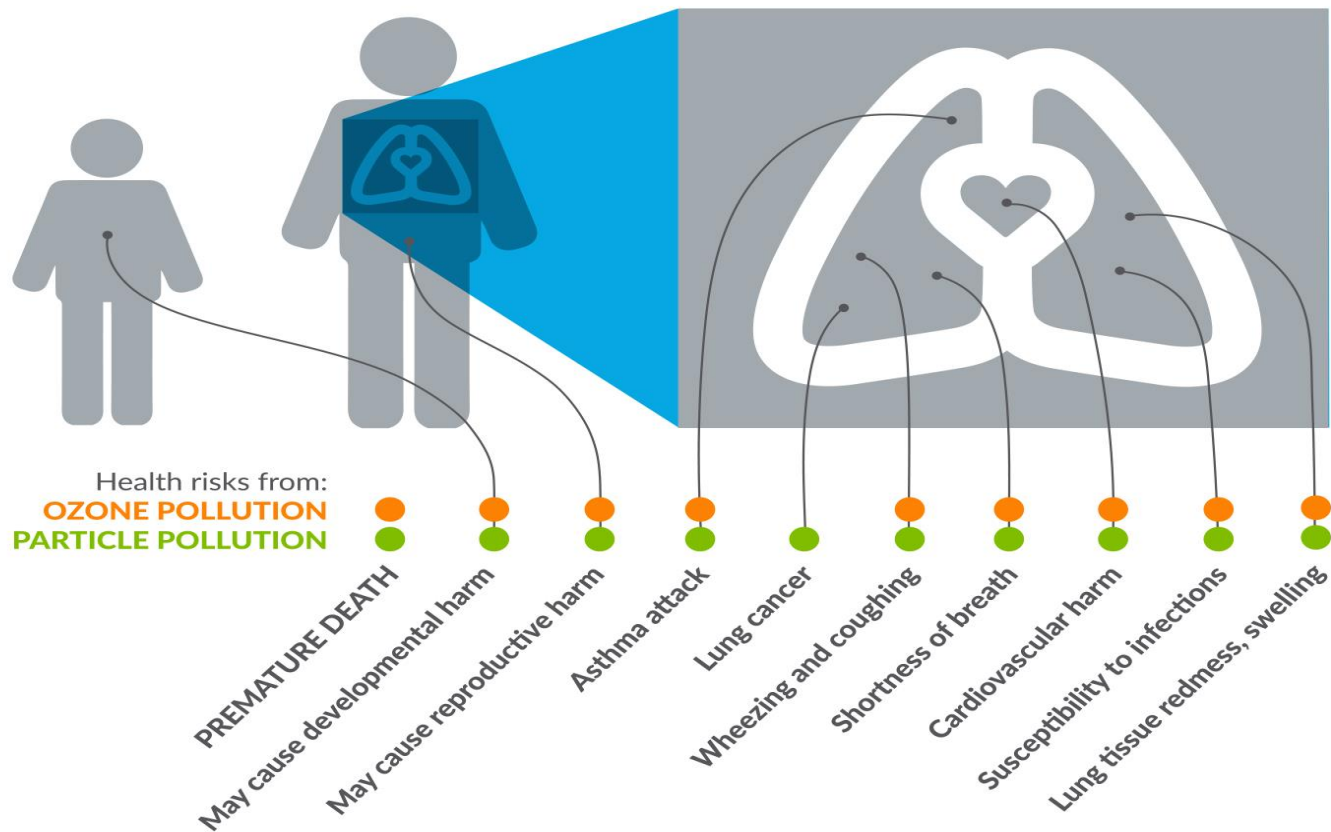
- Irritate the respiratory system and your eyes, nose, throat and cause coughing and headaches
- Reduce lung function, or make it difficult to breathe deeply and quickly
- Aggravate asthma and make people more sensitive to allergens (dust mites, pets and pollen)
- Can inflame and damage the lining of the lung, like a sunburn on your lungs!





AIR QUALITY AND YOUR HEALTH

Air pollution remains a major danger to the health of children and adults.





OUR WORK

- How did we get from here?

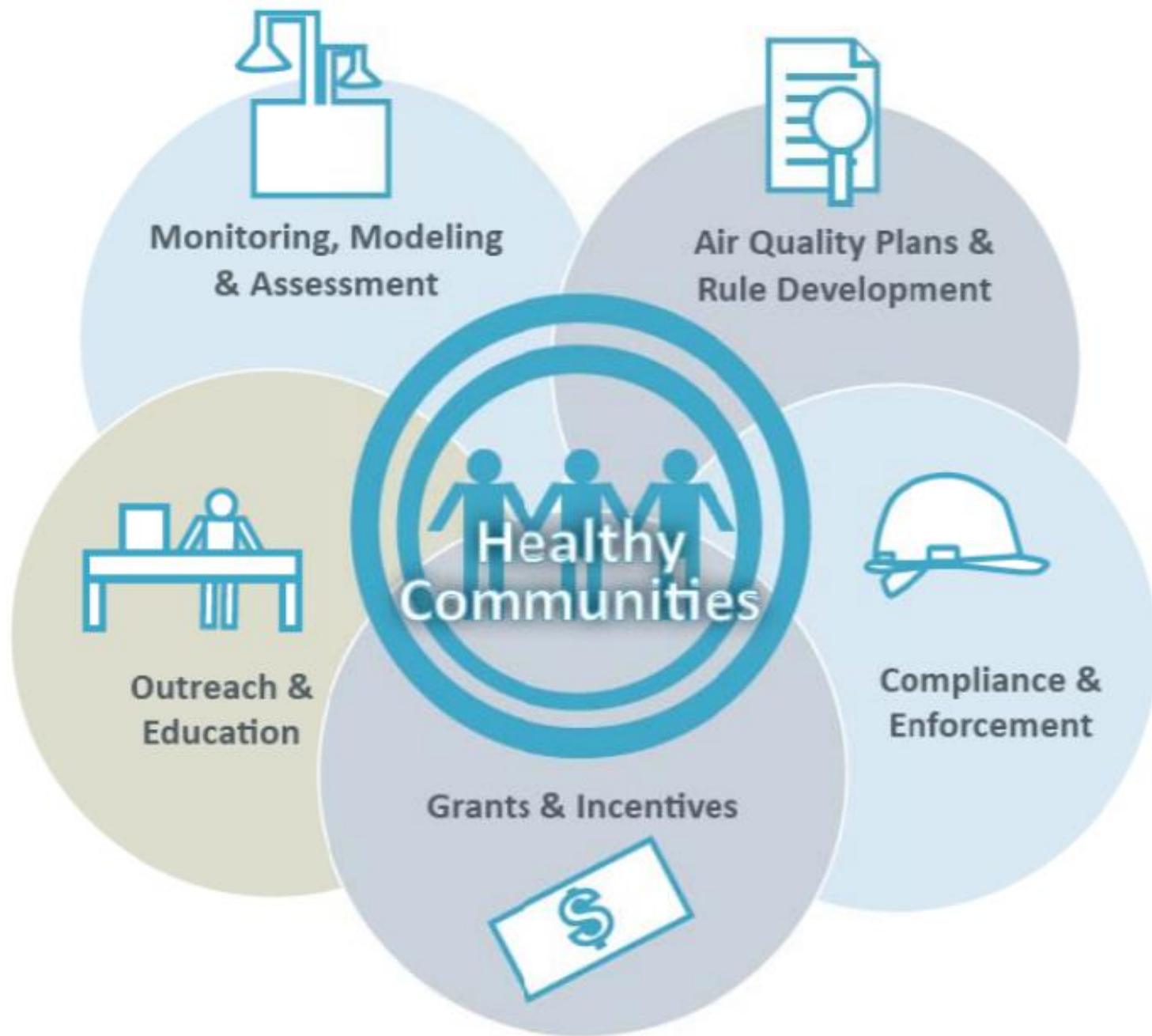




OUR WORK

- To here?







METEOROLOGY AND MEASUREMENTS

- Current Regulatory Air Monitoring Network
 - Over 30 stations through the Bay Area
 - Meets EPA monitoring requirements
 - Designed to represent typical concentrations in populated areas or impacts of a few specific individual sources

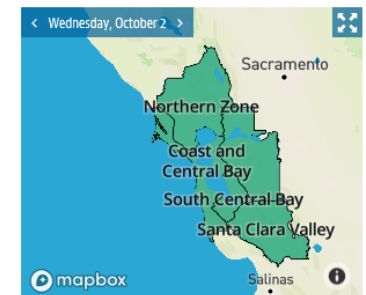
AIR QUALITY INDEX		
Index Values	Descriptors	Cautionary Statements for Ozone
0 to 50	Good	None.
51 to 100	Moderate	Unusually sensitive people should consider limiting prolonged outdoor exertion.
101 to 150	Unhealthy for Sensitive Groups	Active children and adults, and people with respiratory disease, such as asthma, should limit prolonged outdoor exertion.
151 to 200	Unhealthy	Active children and adults, and people with respiratory disease, such as asthma, should avoid prolonged outdoor exertion; everyone else, especially children, should limit prolonged outdoor exertion.
201 to 300	Very Unhealthy	Active children and adults, and people with respiratory disease, such as asthma, should avoid all outdoor exertion; everyone else, especially children, should limit outdoor exertion.

5-Day Air Quality Forecast

Last Updated: Wednesday, October 2 at 11:18 AM

[Enter city for your forecast](#)

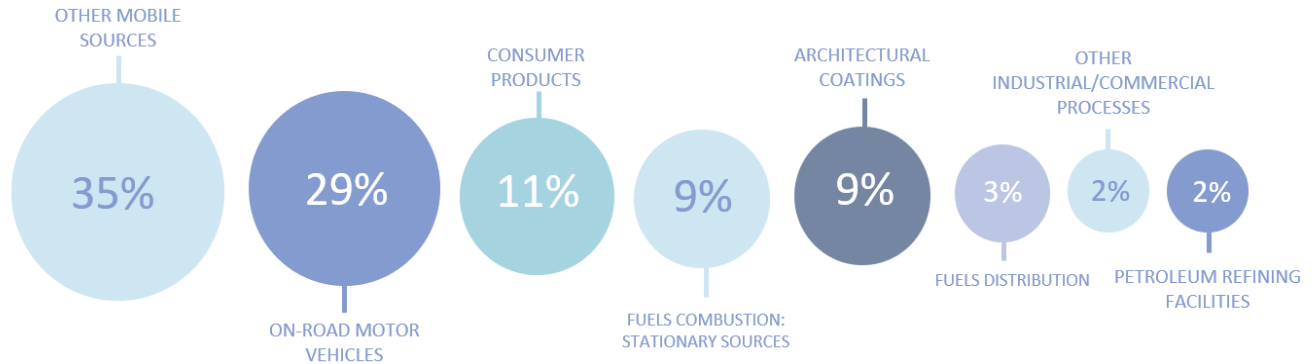
	Wed	Thu	Fri	Sat	Sun
Northern Zone	33	33	G	G	M
Coast and Central Bay	38	38	G	G	G
Eastern Zone	42	32	G	M	M
South Central Bay	38	33	G	G	G
Santa Clara Valley	42	32	G	M	M



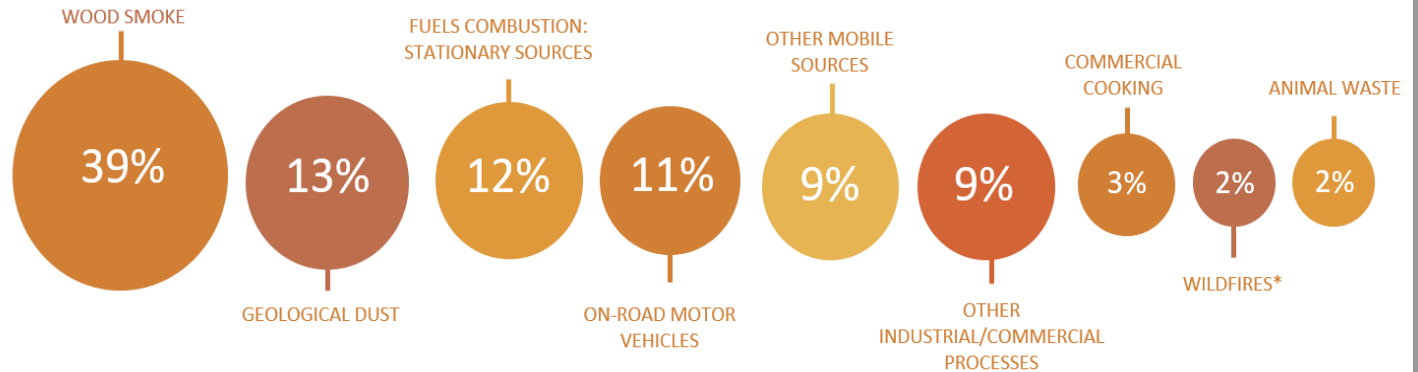


SUMMER AND WINTER AIR POLLUTION

Summer Sources of Bay Area Ozone-Forming Pollutants



Winter Sources of Bay Area Fine Particulate Pollution



*The data does not include PM_{2.5} from North Bay wildfires in October 2017



OUR WORK

- **Air District Emission Sources include:**
 - Five oil refineries
 - 2,500 gasoline dispensing facilities
 - 2,000 dry cleaners and auto-body shops





15,000 to 20,000

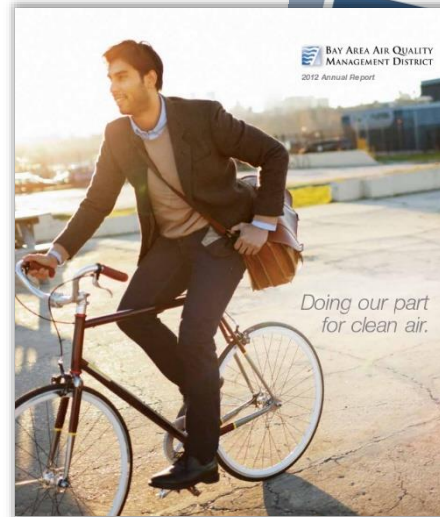
Air quality inspections every year



PUBLIC EDUCATION

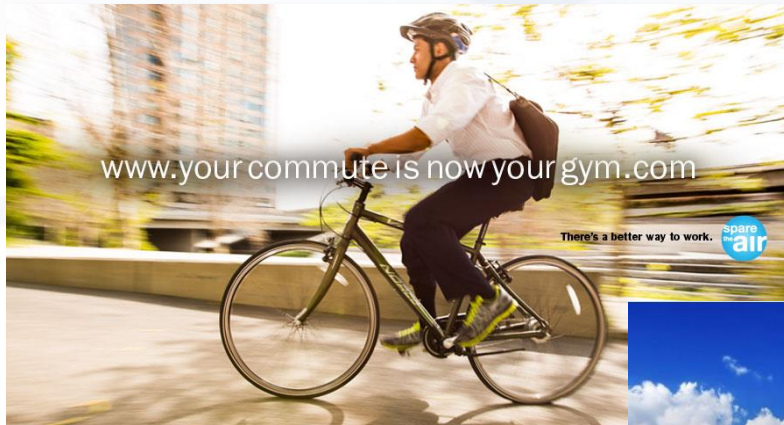
- **Publications**

- Brochures
- Air District Annual Report
- Air Currents Newsletter





Spare the Air



spare the air
Spare The Air
@SpareTheAir

The Spare the Air program encourages Bay Area residents to reduce air pollution by driving less, carpooling, taking transit, and walking and biking.

San Francisco Bay Area, CA · sparetheair.org

TWEETS	FOLLOWING	FOLLOWERS
2,116	4,063	7,314

[Follow](#)

Spare The Air @SpareTheAir · Apr 30
#WordlessWednesday via @SFBayBikeShare Ryland Park, #SanJose pic.twitter.com/Q1MYtunaVp
Details

Spare The Air @SpareTheAir · Apr 29
Work in #SanMateo County? Join us on 5/1 to learn how to start alternative commute solutions at your worksite! sv.mkr1mx6t2s
Details

Spare The Air @SpareTheAir · Apr 25
Did you know that trees help cleanse the air? Happy #ArborDay! Learn more: ow.ly/jwaFU7
Details

Spare The Air @SpareTheAir · Apr 24
Celebrate #EarthDay this wind with the @SpareTheAir team - Learn more by visiting facebook.com/sparetheair/ev...
Details

Spare The Air @SpareTheAir · Apr 23
@kevinkeital Hi Kevin - It's there :) Look for STA Bay Area in your Notification Center - Thx again for downloading the Spare The Air App!
Details





More than 200 community meetings and events each year



COVID-19 Impacts on Air Quality

Traffic (VMT)

50 to
85%

*(per traffic
counts and cell
phone tracking
data)*



Total Emissions

CO₂: 20 to
30%

PM_{2.5}: 15 to
25%

NO_x: 30 to
45%



WHAT CAN YOU DO?

- Consider using **alternative modes of transit**: walk, bike and carpool when you can
- **Reduce the use of fireplaces** in your home
- Continue **composting organics and recycling**
- **Support** Air District rule development efforts
- **Reach out to your county** to get involved
- **Incentives:** <https://www.baaqmd.gov/funding-and-incentives>
- **Share your knowledge!**



NOTIFICATION TOOLS

- Check the air quality status at baaqmd.gov or sparetheair.org
- Call 1-800-HELP-AIR or 1-877-4NO-BURN
- Text “START” to 817-57
- Sign up for email AirAlerts at sparetheair.org
- Sign up for phone alerts at sparetheair.org or by calling 800-430-1515
- iPhone/Android app
- Connect via Facebook, Twitter or Instagram



Connect with us on
Facebook, Instagram and Twitter!

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www.baaqmd.gov

www.sparetheair.org