



Community Action to Fight Asthma

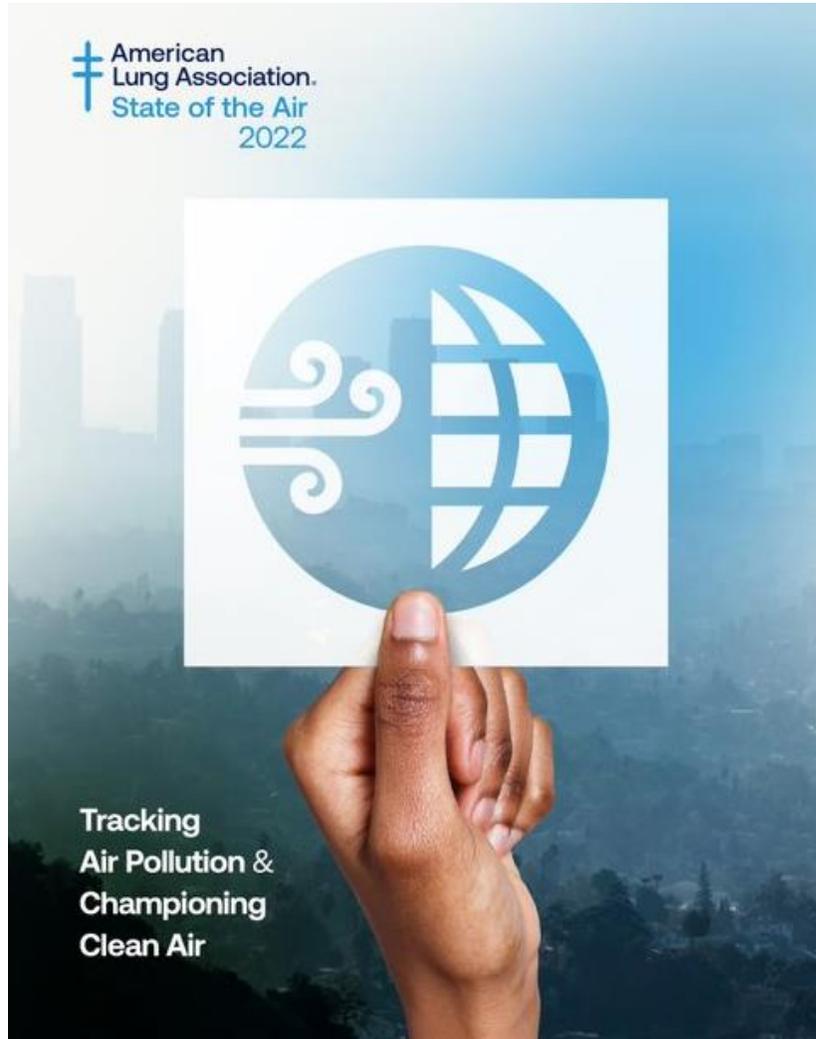
Clean Air and Climate Plans and Policies

June 14, 2022

Will Barrett

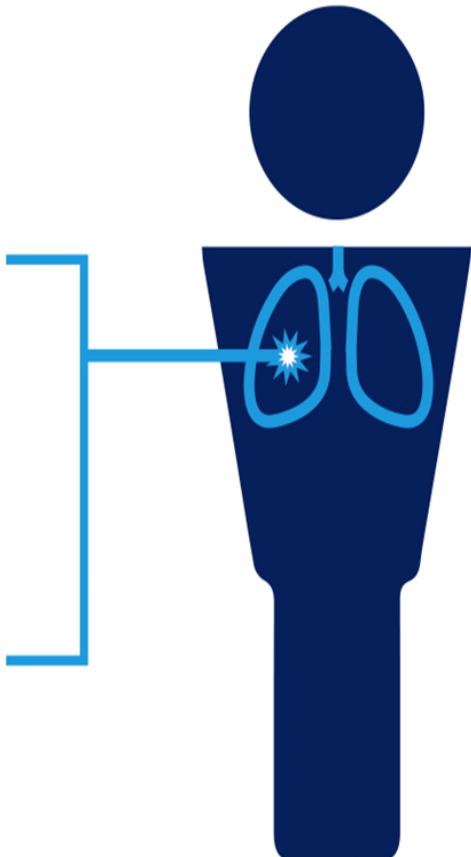
National Senior Director, Clean Air Advocacy

Our 23rd annual report



- Puts air pollution into everyday language
- Gives the public local information
- Focuses attention on ozone and particle pollution
- Gives grades to 935 counties with monitors (out of 3,142 counties)
- Ranks 25 metro areas with worst pollution (& cleanest) for 3 pollutants

Air pollution can harm children and adults in many ways.



Wheezing and coughing
Shortness of breath
Asthma attacks
Worsening COPD
Lung cancer

Premature death
Susceptibility to infections
Heart attacks and strokes
Impaired cognitive functioning
Metabolic disorders
Preterm births and low birth weight



More than 4 in 10
Americans live in places
with unhealthy levels
of air pollution.



People of color
are 3 times
more likely than
white people to
live in a county
with 3 failing
grades.

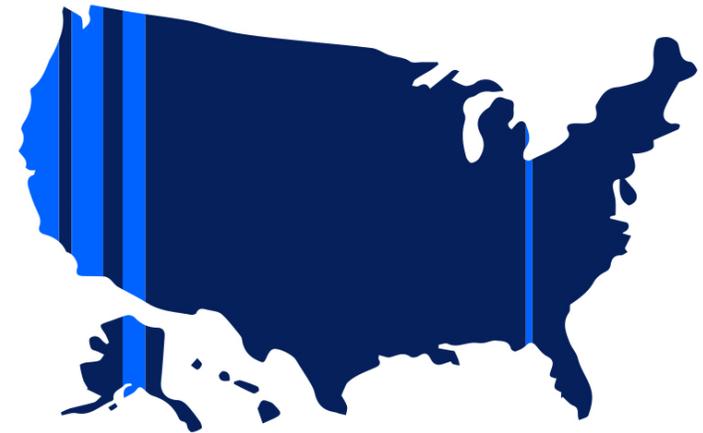
The three years covered by **State of the Air 2022** ranked among the **seven hottest years** on record globally.



Most polluted cities for short-term PM_{2.5}

1. Fresno-Madera-Hanford, CA
2. Bakersfield, CA
3. Fairbanks, AK
4. San Jose-San Francisco-Oakland, CA
5. Redding-Red Bluff, CA
6. Chico, CA
7. Sacramento-Roseville, CA
8. Los Angeles-Long Beach, CA
9. Visalia, CA
9. Yakima, WA

All but one of the **25** worst cities for short-term particle pollution are in the western U.S.



Most polluted cities for year-round PM_{2.5}

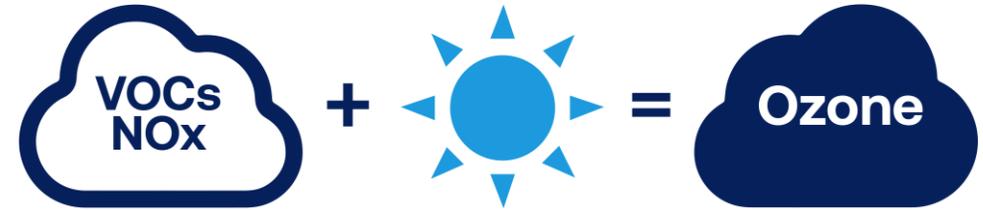
1. Bakersfield, CA
2. Fresno-Madera-Hanford, CA
3. Visalia, CA
4. San Jose-San Francisco-Oakland, CA
5. Los Angeles-Long Beach, CA
6. Medford-Grants Pass, OR
7. Fairbanks, AK
8. Phoenix-Mesa, AZ
9. Chico, CA
10. El Centro, CA

Sources of
particle pollution



Most polluted cities for ozone

1. Los Angeles-Long Beach, CA
2. Bakersfield, CA
3. Visalia, CA
4. Fresno-Madera-Hanford, CA
5. Phoenix-Mesa, AZ
6. San Diego-Chula Vista-Carlsbad, CA
7. Denver-Aurora, CO
8. Houston-The Woodlands, TX
9. Sacramento-Roseville, CA
10. Salt Lake City-Provo-Orem, UT



Transportation Pollution: California

~80%

Smog- and Particle-forming
Oxides of Nitrogen (NOx)

~50%

Climate-forcing
Greenhouse Gases (GHG)

Planning for Clean Air and Climate Protection

Key Decisions in 2022

State Implementation Plan (SIP)

Achieve Ozone Standards

Climate Change Scoping Plan

Achieve Climate Standards

Sustainable Community Policies Needed

**Vehicle
Miles
Traveled**

Smart Growth,
Healthy Active Transportation

**Fund
Healthier
Projects**

Align \$\$ with health and equity,
not more pollution and driving

Healthy Communities

“Reducing vehicle miles traveled is necessary to directly and immediately reduce mobile source emissions...”

*California Air Resources Board
2020 Mobile Source Strategy*

“...while progress around deployment of cleaner vehicle technology and fuels was significant, it was also dampened by continued increases in per capita vehicle miles travelled.”

*CA GHG Emission Inventory, 2021
California Air Resources Board*



“11,307 fewer chronic disease deaths annually”

- Increase physical activity
- Improve mental health
- Reduce chronic disease

Strong Zero-Emission Policies Needed

Key Decisions in 2022

Advanced Clean Cars

Clean Up + Transition Passenger
Vehicles to Zero Emissions

Advanced Clean Fleets

Zero Emission Trucks
Fleets and Sales Targets

\$1.2+
Trillion

Public
Health
Benefits

- Cumulative Public Health Benefits
- 2020-2050 Timescale
- National-scale Benefits

- **110,000** Premature Deaths Avoided
- **2.7 Million** Asthma Attacks Avoided
- **13.4 Million** Lost Work Days Avoided

State Benefits

Top 10 States Ranked by Monetized Health Benefits

Top 10 States Public Health Benefits		Cumulative Health Benefits, 2020 - 2050			
		Health Benefits (\$2017 Billions)	Premature Deaths Avoided	Asthma Attacks Avoided	Lost Work Days Avoided
1.	California	\$ 169.0	15,300	440,000	2,160,000
2.	Texas	\$ 104.0	9,320	346,000	1,520,000
3.	Pennsylvania	\$ 86.8	7,940	148,000	735,000
4.	Florida	\$ 85.6	7,760	142,000	766,000
5.	Ohio	\$ 68.5	6,280	137,000	635,000
6.	New York	\$ 68.2	6,200	159,000	825,000
7.	Illinois	\$ 59.5	5,410	138,000	670,000
8.	Michigan	\$ 51.4	4,700	97,400	466,000
9.	New Jersey	\$ 43.6	3,960	92,400	464,000
10.	Indiana	\$ 36.8	3,360	83,000	373,000

Thank you!

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