



# Community Action to Fight Asthma

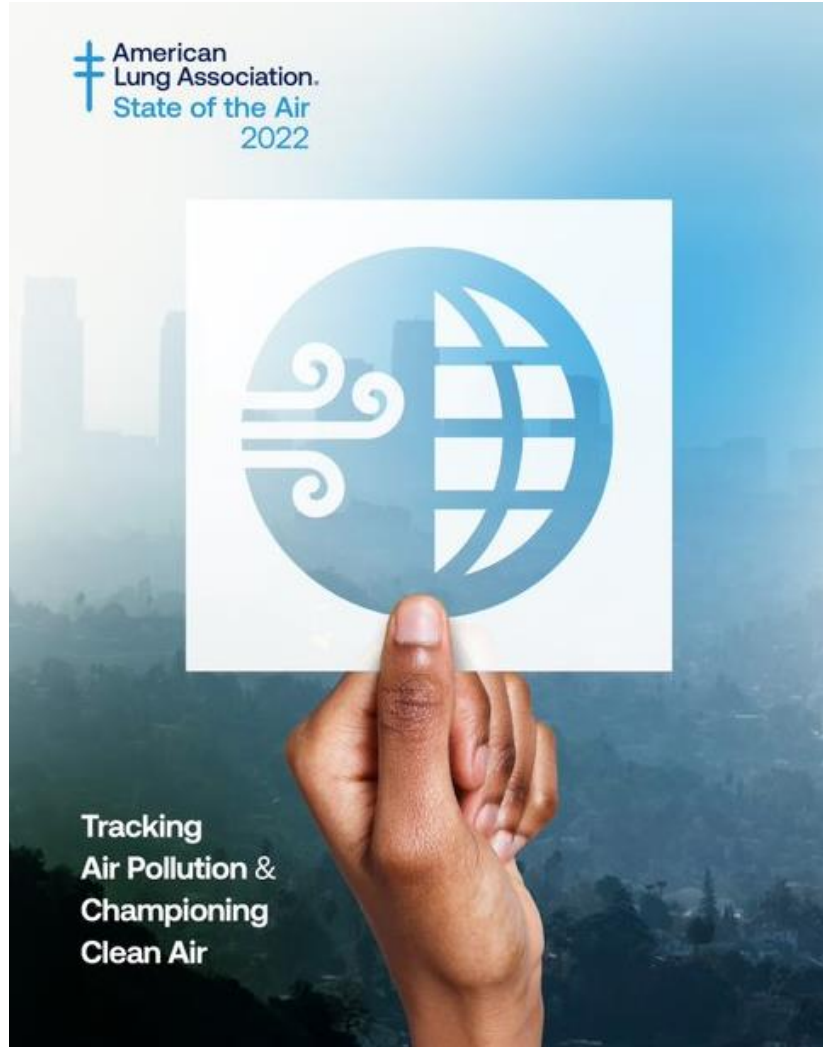
## Clean Air and Climate Plans and Policies

June 14, 2022

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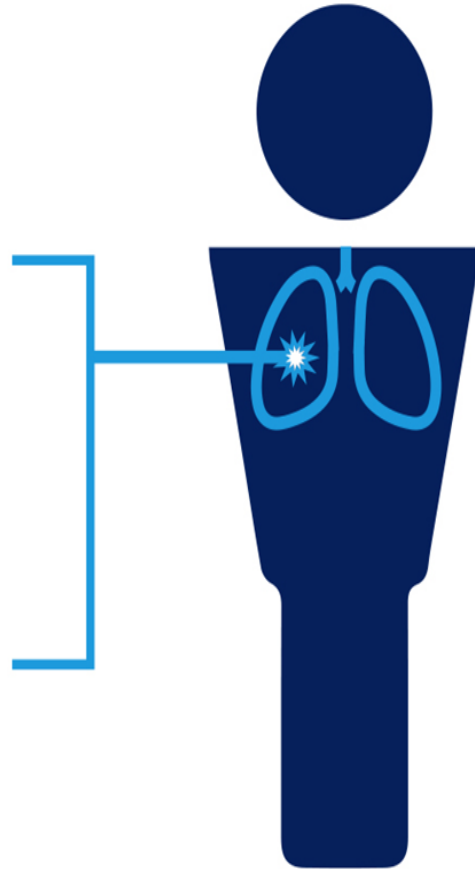
# Our 23<sup>rd</sup> annual report



- 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.

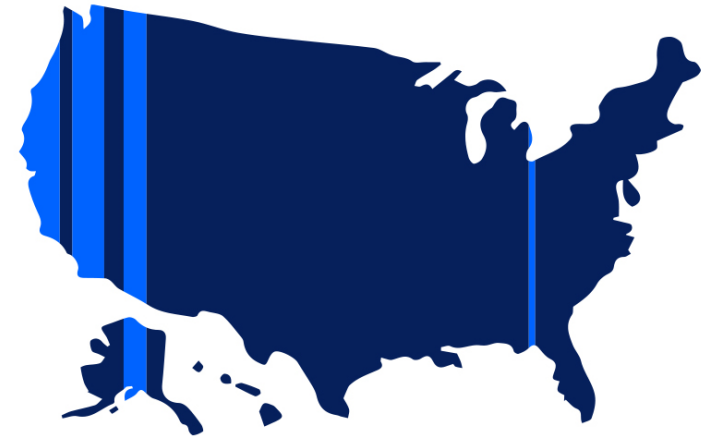




# Most polluted cities for short-term PM<sub>2.5</sub>

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<sub>2.5</sub>

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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