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

[Icons of vehicles, factories, and ski resorts]
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
Key Decisions in 2022

- Strong Zero-Emission Policies Needed
  - 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

<table>
<thead>
<tr>
<th>Top 10 States Public Health Benefits</th>
<th>Cumulative Health Benefits, 2020 - 2050</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Health Benefits ($2017 Billions)</td>
</tr>
<tr>
<td>California</td>
<td>$ 169.0</td>
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<tr>
<td>Texas</td>
<td>$ 104.0</td>
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<tr>
<td>Pennsylvania</td>
<td>$ 86.8</td>
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<tr>
<td>Florida</td>
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<td>Ohio</td>
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<tr>
<td>New York</td>
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<tr>
<td>Illinois</td>
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<tr>
<td>Michigan</td>
<td>$ 51.4</td>
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<tr>
<td>New Jersey</td>
<td>$ 43.6</td>
</tr>
<tr>
<td>Indiana</td>
<td>$ 36.8</td>
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</tbody>
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Thank you!

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