

State of the Air 2025 Report

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“State of the Air” 2025 would not have been possible but for the first twenty formative years of inspiration, dedication and hard work of the late Janice E. Nolen. Her spirit still guides us all.

The American Lung Association assumes sole responsibility for the content of “State of the Air” 2025.

American Lung Association
55 W. Wacker Drive, Suite 1150
Chicago, IL 60601

Advocacy Office
1331 Pennsylvania Avenue, NW, Suite 1425 North
Washington, DC 20004
(800) 586-4872

[Lung.org/sota](https://www.lung.org/sota)

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Why “State of the Air”?

The Clean Air Act requires the U.S. Environmental Protection Agency (EPA) to set health-based limits, called National Ambient Air Quality Standards (NAAQS), for six dangerous outdoor air pollutants: particulate matter, ozone, nitrogen dioxide, sulfur dioxide, carbon monoxide and lead. “State of the Air” looks at two of the most widespread and dangerous pollutants from this group, fine particulate matter and ozone.

The NAAQS identify what is considered a safe level of each pollutant to breathe, based on the most recent health and medical science, including an adequate margin of safety for those most at risk. These standards require states and local governments to take steps to reduce emissions to attain the standards. The standards also serve to alert families with children, seniors, individuals with lung or heart conditions, and others about dangerous air pollution levels through color-coded air quality alerts. This enables them to take necessary precautions to minimize their exposure. Under the Clean Air Act, the standards must be based solely on what is needed to protect health and must be periodically updated as the science evolves.

Setting national health-based standards and requiring states that violate the standards to enact plans to clean up their air pollution problems have been a great benefit to the public health of the nation. Since the Clean Air Act was passed in 1970, the combined emissions of six key air pollutants have fallen by 78%, according to EPA. But as “State of the Air” 2025 shows, many millions of people in this country are still breathing unhealthy air.

Purpose and history of “State of the Air”

In the year 2000, the American Lung Association launched its annual “State of the Air” report to provide the public with easy-to-understand information about the quality of the air in their communities based on the credible data and sound science that EPA is required to use to set and enforce the air quality standards.

For the first several years, “State of the Air” focused solely on ozone pollution and included data for five populations at increased risk—children, older adults, children with asthma, adults with asthma and people with emphysema. In 2004, changes to the air quality standards and the deployment of air pollution monitoring enabled the addition of short-term and year-round fine particle pollution (PM_{2.5}) to the report. Over time, accumulating scientific evidence has shown significant health harms from both ozone and particle pollution among other groups of vulnerable individuals. “State of the Air” has accommodated this new information by gradually adding populations-at-risk categories to its reporting. “State of the Air” 2025 now includes data for 10 vulnerable groups.

Since its inception, “State of the Air” has been tremendously successful in raising awareness about particle pollution and ozone, two of the most dangerous and pervasive air pollutants nationwide. The American Lung Association is proud and grateful that the public, the media, clean air advocates and decision-makers have used this report every day, year after year, to call attention to the work that remains to be done to protect the public from the threat of air pollution.

How “State of the Air” can be used

We write and release “State of the Air” every year to make information on air quality and health clear and accessible to everyone. We show the progress each community has made and how much more needs to be done to achieve healthy air. In this report, you’ll find information on local air quality nationwide. You’ll also find the latest research on how air pollution affects health. With these tools, you can take proactive steps to safeguard both your lungs and your family’s lungs from unhealthy air.

Every year, “State of the Air” also includes recommendations for actions that both policymakers and individual people can take to improve air quality. This year, the report highlights threats to the staff, funding and work of the U.S. Environmental Protection Agency that put clean air at risk for people across the country. We ask that you join

us in taking advocacy action to protect EPA and its clean air progress. Your voice and your individual perspective are more powerful now than ever. Please share your story and add your name to our petition – and then, take the next step. Reach out to your representatives at every level of government, share the “State of the Air” results for your community, and call on them to take action to protect EPA in the interest of public health.

State of the Air 2025 Methodology

Statistical Methodology: The Air Quality Data

Data Sources

Ozone and short-term particle pollution. The data on air quality throughout the United States were obtained from the U.S. Environmental Protection Agency’s Air Quality System (AQS). The American Lung Association contracted with Dr. Allen S. Lefohn, A.S.L. & Associates, Montana, to characterize the hourly averaged ozone concentration information and the 24-hour averaged PM_{2.5} concentration information for the three-year period for 2021-2023 for each monitoring site.

Year-round particle pollution. Design values for the annual PM_{2.5} concentrations by county for the period 2021-2023 were retrieved November 18, 2024 from data posted on August 8, 2024 at the U.S. Environmental Protection Agency’s website at <https://www.epa.gov/air-trends/air-quality-design-values>.

The Lung Association received critical assistance from members of the National Association of Clean Air Agencies and the Association of Air Pollution Control Agencies. With their assistance, all state and local agencies were provided the opportunity to review and comment on the data in draft tabular form. The Lung Association reviewed any discrepancies with the agencies and, if needed, with Dr. Lefohn at A.S.L. & Associates. The American Lung Association wishes to express its continued appreciation to the state and local air directors for their willingness to assist in ensuring that the characterized data used in this report are correct.

Ozone Data Analysis

The 2021, 2022 and 2023 AQS hourly ozone data were used to calculate the daily 8-hour maximum concentration for each ozone-monitoring site. The hourly averaged ozone data were downloaded on June 26, 2024, following the close of the authorized period for quality review and assurance certification of data. Only the hourly average ozone concentrations derived from FRM and FEM monitors were used in the analysis. The data were considered for a three-year period for the same reason that EPA uses three years of data to determine compliance with the ozone standard: to prevent a situation in which anomalies of weather or other factors in any single year create air pollution levels that inaccurately reflect normal conditions. For each county, the highest 8-hour daily maximum concentration was identified for each day with sufficient data based on the EPA-defined ozone season for 2021, 2022, and 2023.

The current national ambient air quality standard for ozone is 70 parts per billion (ppb) measured over eight hours. The EPA’s Air Quality Index (AQI) reflects the 70 ppb standard. A.S.L. & Associates prepared a table by county that summarized, for each of the three years, the number of days the ozone level was within the ranges identified by EPA based on the Air Quality Index:

8-hour Ozone Concentration	Air Quality Index Levels
0-54 ppb	■ Good (Green)
55-70 ppb	■ Moderate (Yellow)
71-85 ppb	■ Unhealthy for Sensitive Groups (Orange)
86-105 ppb	■ Unhealthy (Red)
106-200 ppb	■ Very Unhealthy (Purple)
>200 ppb	■ Hazardous (Maroon)

For this report, the objective was to identify the number of days that 8-hour daily maximum concentrations in each county occurred within the defined ranges. This approach provided an indication of the level of pollution for all monitored days, not just those days that fell under the requirements for attaining the national ambient air quality standards. Therefore, no data capture criteria were applied to eliminate monitoring sites or to require a number of valid days for the ozone season.

The daily maximum 8-hour average concentration for a given day is derived from the highest of the 17 consecutive 8-hour averages beginning with the 8-hour period from 7:00 a.m. to 3:00 p.m. and ending with the 8-hour period from 11:00 p.m. to 7:00 a.m. the following day. This follows the process EPA uses for the current ozone standard adopted in 2015. All valid days of data within the ozone season were used in the analysis. However, for computing an 8-hour average, at least 75 percent of the hourly concentrations (i.e., 6-8 hours) had to be available for the 8-hour period. In addition, an 8-hour daily maximum average was identified if valid 8-hour averages were available for at least 75 percent of possible hours in the day (i.e., at least 13 of the possible 17 8-hour averages). Because EPA includes days with inadequate data (i.e., not 75 percent complete) if the standard value is exceeded, our data capture methodology also included the site's 8-hour value if at least one valid 8-hour period were available, and it was 71 ppb or higher.

As instructed by the Lung Association, A.S.L. & Associates included the exceptional (e.g., wildfires) and natural events (e.g., stratospheric intrusions) that were identified in the database and identified for the Lung Association the dates and monitoring sites that experienced such events. Some data have been flagged by the state or local air pollution control agency to indicate that they had raised issues with EPA about those data. For each day across all sites within a specific county, the highest daily maximum 8-hour average ozone concentration was recorded and then the results were summarized by county for the number of days the ozone levels were within the ranges identified above.

Following receipt of the above information, the American Lung Association identified the number of days each county, with at least one ozone monitor, experienced air quality designated as orange (Unhealthy for Sensitive Groups), red (Unhealthy) or purple (Very Unhealthy). When some monitored data were collected sometime during the three-year period, but insufficient data were available in any year, an "incomplete" was identified for the 3-year period. Insufficient data exist for various reasons. For example, when a specific monitor was used for a special study and the monitor was then discontinued in other years, an "incomplete" is assigned.

ii Analysis of the daily PM_{2.5} data for "State of the Air" 2024 was completed in January 2024, before EPA announced the finalization of the revised PM_{2.5} NAAQS and Air Quality Index. The values used in this report are based on the 2012 Air Quality Index.

Short-Term Particle Pollution Data Analysis

For each county, A.S.L. & Associates identified the maximum daily 24-hour AQS $PM_{2.5}$ concentration for each day with sufficient monitoring information in 2021, 2022 and 2023. The 24-hour averaged $PM_{2.5}$ data were downloaded on August 27, 2024 from the EPA website following the correction of the hourly values by the EPA of the $PM_{2.5}$ data associated with monitors using method codes 236 and 238. Using the downloaded $PM_{2.5}$ daily data from the EPA website, A.S.L. & Associates prepared a table by county that summarized, for each of the three years, the number of days the $PM_{2.5}$ concentration was within the ranges identified by EPA based on the Air Quality Index, as adopted by the EPA on February 7, 2024:

24-hour $PM_{2.5}$ Concentration	Air Quality Index Levels
0.0 $\mu\text{g}/\text{m}^3$ to 9.0 $\mu\text{g}/\text{m}^3$	■ Good (Green)
9.1 $\mu\text{g}/\text{m}^3$ to 35.4 $\mu\text{g}/\text{m}^3$	■ Moderate (Yellow)
35.5 $\mu\text{g}/\text{m}^3$ to 55.4 $\mu\text{g}/\text{m}^3$	■ Unhealthy for Sensitive Groups (Orange)
55.5 $\mu\text{g}/\text{m}^3$ to 125.4 $\mu\text{g}/\text{m}^3$	■ Unhealthy (Red)
125.5 $\mu\text{g}/\text{m}^3$ to 225.4 $\mu\text{g}/\text{m}^3$	■ Very Unhealthy (Purple)
greater than or equal to 225.5 $\mu\text{g}/\text{m}^3$	■ Hazardous (Maroon)

All previous data collected for 24-hour average $PM_{2.5}$ were characterized using the AQI thresholds listed above.

For this report, the objective was to identify the number of days that the maximum in each county of the daily $PM_{2.5}$ concentration occurred within the defined ranges. This approach provided an indication of the level of pollution for all monitored days, not just those days that fell under the requirements for attaining the national ambient air quality standards. Therefore, no data capture criteria were used to eliminate monitoring sites. Included in the analysis are data collected using only FRM and FEM methods, which reported 24-hour averaged data.

As instructed by the Lung Association, A.S.L. & Associates included the exceptional and natural events that were identified in the database and identified for the Lung Association the dates and monitoring sites that experienced such events. Some data have been flagged by the state or local air pollution control agency to indicate that they had raised issues with EPA about those data. For each day across all sites within a specific county, the highest daily maximum 24-hour $PM_{2.5}$ concentration was recorded and then the results were summarized by county for the number of days the concentration levels were within the ranges identified above.

Following receipt of the above information, the American Lung Association identified the number of days each county, with at least one $PM_{2.5}$ monitor, experienced air quality designated as orange (Unhealthy for Sensitive Groups), red (Unhealthy), purple (Very Unhealthy) or maroon (Hazardous).

Description of County Grading System

Ozone and Short-Term Particle Pollution (24-hour PM_{2.5})

The grades for ozone and short-term particle pollution (24-hour PM_{2.5}) were based on a weighted average calculation. To determine weighted averages, the Lung Association followed these four steps separately for each pollutant in each county:

1. Assigned weighting factors to each category of the Air Quality Index. Days of poor air quality were given the following weighting factors:

Orange days	1.0
Red days	1.5
Purple days	2.0
Maroon days	2.5

This ensured that days when the air pollution levels were worse received appropriately greater weight.

2. Multiplied the total number of days within each AQI category by its assigned factor, and added all the categories to calculate a total:

$$\text{Total} = [\text{Orange days} \times 1] + [\text{Red days} \times 1.5] + [\text{Purple days} \times 2] + [\text{Maroon days} \times 2.5]$$

3. Divided the total by three to determine the weighted average, since the monitoring data were collected over a three-year period:

$$\text{Weighted Average} = \text{Total} \div 3$$

Weighted average was then used to determine each county's grades for ozone and 24-hour PM_{2.5} according to the following table:

Weighted Average	Grade
0.0	A
0.3 to 0.9	B
1.0 to 2.0	C
2.1 to 3.2	D
3.3 or higher	F

All counties with a weighted average of zero (corresponding to no exceedances of the standard over the three-year period) were given a grade of "A."

For ozone, an "F" grade was set to generally correlate with the number of unhealthy air days that would place a county in nonattainment for the ozone standard.

For short-term particle pollution, fewer unhealthy air days are required for an F than for nonattainment under the PM_{2.5} standard. The 2006 24-hour PM_{2.5} standard is set to allow two percent of the days during the three years to exceed 35 µg/m³ (called a "98th percentile" form) before violating the standard. That would be roughly 21 unhealthy days in three years. The grading used in this report would allow only about one percent of the days to be over 35 µg/m³ (called a "99th percentile" form) of the PM_{2.5}. The American Lung Association supports using the tighter limits in a 99th percentile form as a more appropriate standard that is intended to protect the public from short-term episodes or spikes in pollution.

Weighted averages allow comparisons to be drawn based on severity of air pollution. For example, if one county had nine orange days and no red days, it would earn a weighted average of 3.0 and a D grade. However, another county that had only seven orange days but also two red days, which signify days with more serious air pollution, would have a weighted average of 3.3, and would receive an F.

Note that this system differs significantly from the methodology EPA uses to determine violations of both the ozone and the 24-hour PM_{2.5} standards. EPA determines whether a county violates the ozone standard based on the fourth maximum daily 8-hour ozone reading each year averaged over three years. Multiple days of unhealthy air beyond the highest four in each year are not considered. By contrast, the system used in this report recognizes when a community's air quality repeatedly results in unhealthy air throughout the three years. Consequently, some counties will receive grades of "F" in this report, showing repeated instances of unhealthy air, while still meeting the EPA's 2015 ozone standard. The American Lung Association's position is that the evidence shows that the 2015 ozone standard fails to adequately protect public health.

Counties were ranked by weighted average. Metropolitan areas were ranked by the highest weighted average among the counties within a given Metropolitan Statistical Area as of 2023 as defined by the White House Office of Management and Budget (OMB).

Weighted average values that appeared in prior reports may not be directly comparable to values in the current report as standards and the AQI may have changed. Therefore, for use in the Lung Association's online resources for the "State of the Air" report at [Lung.org/sota](https://lung.org/sota), values from earlier years are updated according to the current standard and Air Quality Index.

Year-Round Particle Pollution (Annual PM_{2.5})

Since no comparable Air Quality Index exists for year-round particle pollution (annual PM_{2.5}), the grading was based on the 2024 National Ambient Air Quality Standard for annual PM_{2.5} of 9.0 µg/m³. Counties that EPA listed as being at or below 9.0 µg/m³ were given grades of "Pass." Counties that EPA listed as being at or above 9.1 µg/m³ were given grades of "Fail." Where insufficient data existed for EPA to determine a design value, those counties received a grade of "Incomplete."

A design value is the calculated concentration of a pollutant based on the form of the national ambient air quality standard and is used by EPA to determine whether the air quality in a county meets the standard. Counties were ranked by design value. Metropolitan areas were ranked by the highest design value among the counties within a given Metropolitan Statistical Area as of 2023 as defined by the OMB.

Statistical Methodology: Population Data

The Lung Association calculates the county populations at risk from these pollutants based on the population from the entire county where the monitor is located. The Lung Association then calculates the metropolitan populations at risk based upon the largest metropolitan area that contains that county. Not only do people from that county or metropolitan area circulate within the county and the metropolitan area, but the air pollution also circulates to that monitor from throughout the county and metropolitan area.

Details about how the populations-at-risk numbers are derived can be found in Understanding Grades and Tables.

Key Findings



Nearly half
of the U.S. population
live with unhealthy
levels of air pollution



A changing climate
is making the job of
cleaning up the air
more difficult

The “State of the Air” 2025 report finds that even after decades of successful efforts to reduce sources of air pollution, 46% of Americans—156.1 million people—are living in places that get failing grades for unhealthy levels of ozone or particle pollution. This is nearly 25 million more people breathing unhealthy air compared to last year’s report, and more than in any other “State of the Air” report in the last ten years.

Extreme heat, drought and wildfires are contributing to worsening levels of air pollution across much of the U.S., exposing a growing proportion of the population to ozone and particle pollution that put their health at risk.

The “State of the Air” report looks at two of the most widespread and dangerous air pollutants, fine particles and ozone. The air quality data used in the report are collected at official monitoring sites across the United States by federal, state, local and Tribal governments. The Lung Association calculates values reflecting the air pollution problem and assigns grades for daily and long-term measures of particle pollution and daily measures of ozone. Those values are also used to rank cities (metropolitan areas) and counties. This year’s report presents data from 2021, 2022 and 2023, the most recent three years of quality-assured nationwide air pollution data publicly available. See **About This Report** for more detail about the methodology for data collection and analysis.

“State of the Air” 2025 is the 26th edition of this annual report, which was first published in 2000. From the beginning, the findings in “State of the Air” have reflected the successes of the Clean Air Act, as emissions from transportation, power plants and manufacturing have been reduced over time. Over the last decade, however, the findings of the report have added to the extensive evidence that a changing climate is making it harder to protect this hard-fought progress on air quality and human health. Increases in high ozone days and spikes in particle pollution related to extreme heat, drought and wildfires are putting millions of people at risk and adding challenges to the work that states and cities are doing across the nation to clean up air pollution.

After several years of reporting that the worst of the nation’s air quality problems were increasingly concentrated in western states, “State of the Air” 2025 finds the geographic distribution of air pollution shifting back East. The year 2023, which is included in this year’s report for the first time, brought improved conditions to the west coast but also a deadly heat wave in Texas and an unprecedented blanket of smoke from wildfires in Canada that drove levels of ozone and particle pollution in dozens of central and eastern states higher than they have been in many years.

Again this year, “State of the Air” finds that the burden of living with unhealthy air is not shared equally. Research has shown that communities of color are disproportionately exposed to unhealthy air and are also more likely to be living with one or more chronic conditions that make them more vulnerable to air pollution, including asthma, diabetes and heart disease. Although people of color make up 41.2% of the overall population of the U.S., they are 50.2% of the people living in a county with at least one failing grade. Notably, Hispanic individuals are nearly three times as likely as white individuals to live in a community with three failing grades.

In “State of the Air” 2025, the metropolitan areas that ranked worst in the country for each of the three pollutant measures are unchanged from last year’s report. Bakersfield, California tops the list for worst short-term particle pollution for the third straight year. Bakersfield also continues to be the metropolitan area with the worst level of year-round particle pollution for the 6th year in a row. Los Angeles is the city with the worst ozone pollution in the nation, as it has been in 25 of the 26 years of reporting in “State of the Air”—although city residents are exposed to an average of 77 fewer days of unhealthy levels of ozone each year than they were in 2000.

More than 125 million people live in counties with F grades for ozone smog.



Ozone Pollution Trends

Ozone air pollution is making breathing difficult for more people living in the U.S. than any other single pollutant. In the years 2021, 2022, and 2023, 37% of the population, some 125.2 million people, were exposed to levels of ozone that put their health at risk. This is an increase of 24.6 million people over last year's figure, and includes tens of millions of infants and children, people age 65 or older and others whose conditions make them especially vulnerable to health harm from air pollution.

After several years of successful reductions in ozone pollution in many parts of the country thanks to clean-up measures enacted under the Clean Air Act, the results in "State of the Air" 2025 are a distressing reversal of that progress. The places that earned an "F" grade for ozone in this year's report were spread across 211 counties in 35 states and Washington DC. Ninety-three more counties earned an "F" grade than in last year's report, and 10 more states saw at least one of their counties added to the list. Many places that were considered untroubled by ozone smog in recent years of the report saw their air quality worsen, sometimes by quite a lot—137 counties lost their A grade, including 10 that went from an A to an F.

The hardest hit region of the country for this change is a large swath of states extending north to south from the Midwest and the Plains down to Texas. The worsening ozone was due in large part to two factors that came together in 2023—in the North, the transport of ozone-forming pollutants generated by the extensive, climate change-driven wildfires in Canada, and in the South, high temperatures combined with emissions creating ideal conditions for ozone formation.

Average Change in Ozone Weighted Average by State 2020-2022 to 2021-2023



The severity of the problem and the abruptness of the change are unprecedented in magnitude. Nationwide, nearly five times as many counties' ozone levels worsened as improved. Nine states saw the number of unhealthy days for ozone get worse in every one of their counties monitored for this pollutant, including all 27 monitored counties in Indiana, all 23 in Illinois, and all 17 in Missouri.

The Role of Wildfires in Ozone Formation

In May and June of 2023, Canada experienced its worst wildfire season on record. Smoke plumes from those fires spread across the states of the Upper Midwest and Northeast. In addition to smoke blanketing those states with high levels of particle pollution, the Upper Midwest experienced the highest regional-scale surface ozone levels ever recorded so early in the season. By analyzing findings from air quality monitors, satellites and measurements of atmospheric chemistry taken from research aircraft, scientists found a clear link between the fires and the extreme levels of ozone pollution hundreds of miles downwind.

Wildfire smoke is a very visible and well-recognized source of unhealthy levels of particle pollution. As worsening heat and drought driven by a changing climate have increased the number, size and intensity of wildfires in the U.S. and neighboring Canada, the number and severity of high particle pollution days have also been increasing.

At the same time, the role of wildfires in the development of ozone smog has been less obvious and less well-documented. The chemistry of ozone formation is complex and variable. Many different potential emission sources contribute its precursor components. That complexity, together with the variable mixture of pollutants in wildfire smoke, have made understanding and quantifying the relationship between wildfires and ozone a challenge for atmospheric scientists.

Burning of plants and other organic material, known as biomass, in wildland fires produces particulate matter along with hundreds of reactive gases, including nitrogen dioxide (NO₂), volatile organic compounds (VOCs) and carbon monoxide. All of these gases can play a role in ozone formation, especially in sunny and hot conditions. These emissions undergo a series of chemical reactions as the smoke plume moves away from the source of the fire. In general, ozone production increases as the plume ages and moves downwind. Plumes that drift over reservoirs of NO₂ pollution, such as urban centers and industrial corridors with highways, railroads and ports, are also more likely to produce elevated ozone levels.

Whether or not a particular wildfire event produces significantly elevated levels of ozone depends on a number of factors that affect the emission and transport of precursor gases. This includes the temperature of the combustion, the duration of active flame production (more NO₂ is produced during periods of active flaming than when a fire is smoldering), wind direction and how close to the surface the plume is transported.

Years of successful cleanup of emissions from transportation, energy generation and industrial processes have contributed to falling ozone levels across much of the country since the first “State of the Air” report was published in 2000. Unfortunately, as was shown in 2023, one bad fire season has the potential to offset that progress, at least temporarily, creating new challenges for air pollution control efforts and putting the health of the communities affected at increased risk.

Sources

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Lin M et al. Reactive nitrogen partitioning enhances the contribution of Canadian wildfire plumes to U.S. ozone air quality. *Geophysical Research Letters*. 2024; 51:e2024GL10969.

In spite of these startling results, it is worthwhile pointing out that a handful of western states experienced something of a respite in this year’s report. More counties improved than worsened in California, Idaho, Nevada, New Mexico and Wyoming, even though ozone levels in many of their counties continued to be unhealthy on many days.

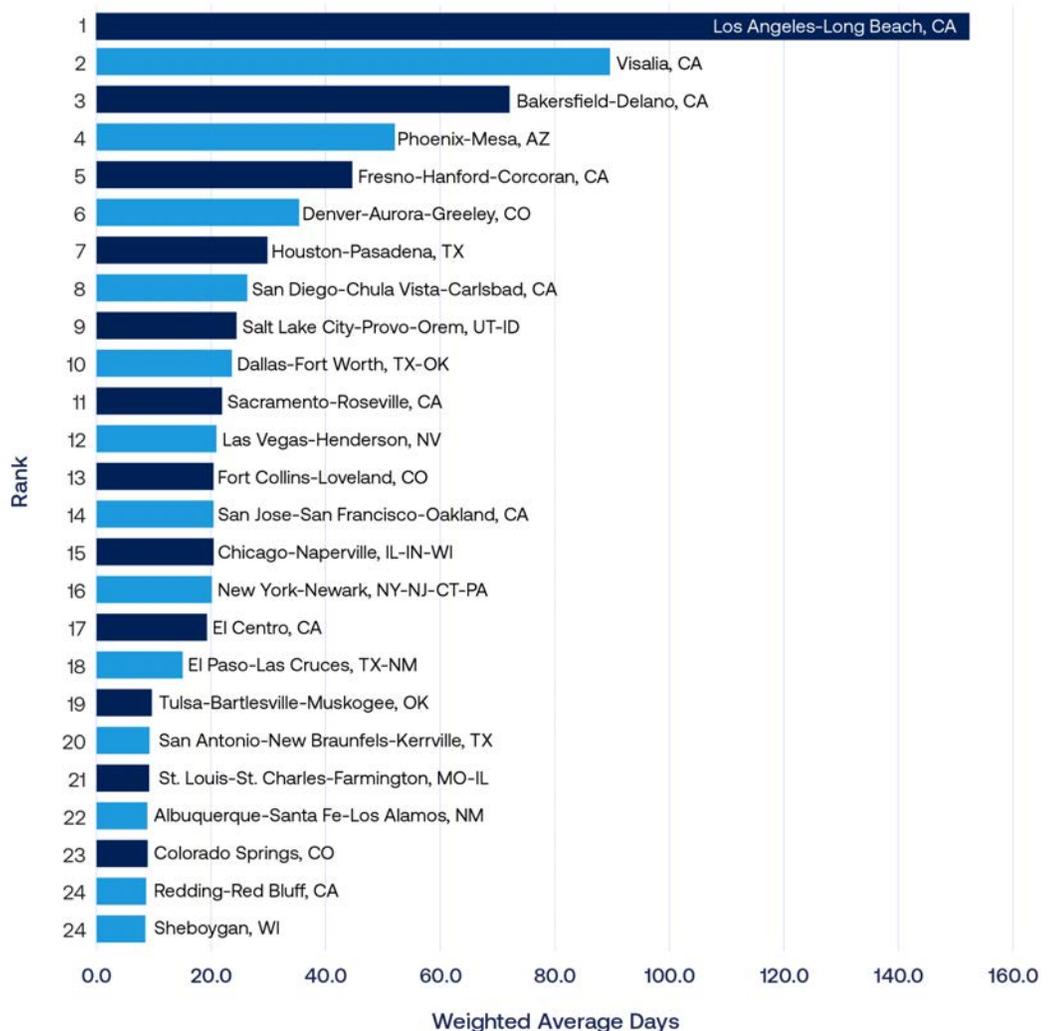
Despite the widespread worsening in parts of the country, the list of the Worst 25 cities for ozone pollution in “State of the Air” 2025 and their order of ranking remains relatively stable compared with last year’s report.

The largest changes in rank are for Tulsa, OK, worsening from 31st to 19th worst, and for St. Louis, MO, from 30th to 21st worst. Both were most recently on the Worst 25 list in the 2016 report. Sheboygan, WI is the only other city to join the list this year, having last appeared on the 2021 most polluted list. Those three new cities take the places of San Luis Obispo, CA and Reno, NV, which improved enough to move off the worst 25 list, and Grand Rapids, MI, which worsened significantly, but not enough to remain on the list.

In one small piece of good news, none of the cities on the Worst 25 list reported a worst-ever average number of days of ozone smog. In fact, four cities, all in California—Fresno (for its fifth year in a row), Bakersfield, Sacramento, and Visalia—recorded their fewest-ever number of unhealthy days for ozone, though they all still earned “F” grades.

The geographical distribution of cities on the Worst 25 list repeats the pattern seen over

25 Cities Most Polluted by Ozone



the last decade—the highest levels of ozone air pollution continue to occur in the West. California retains its position of being the state with the most metro areas on the list with 9 of the 25 most-polluted cities. Arizona, Colorado, Nevada, New Mexico, Oklahoma, Texas and Utah account for 12 others. They are joined this year by four more easterly cities, Chicago, New York, St. Louis, and Sheboygan.

Although cleanup of ozone precursor pollutants from industrial, power generation, and mobile sources has been working to reduce ozone concentrations, the impact of climate change has resulted in widespread wildfire disasters and has also meant higher temperatures, dry, sunny skies and more frequent stagnation events. Taken together, these conditions produced much higher numbers of unhealthy ozone days than would otherwise be the case.

Short-term Particle Pollution Trends

In the years 2021, 2022 and 2023, there were 77.2 million people living in counties across the U.S. that earned an F grade for unhealthy spikes in particle pollution. This represents an increase of 12.1 million more people than in last year's report, the seventh straight year of increasing health threat from this deadly pollutant.

Even compared with the past several years of “State of the Air” reports—in which many cities and counties experienced their highest weighted average number of days ever reported for fine particle pollution—results this year are again worse. In “State of the Air” 2025, 154 counties in 27 states get failing grades for short-term particle pollution. This is 44 more counties and 8 more states, plus Washington DC, than in last year's report. Although 27 counties in the West, including 17 counties in California, improved enough to get passing grades this year, those improvements are more than offset by the 68 counties that have been added, many of them in the Midwest and East. Connecticut, DC, Georgia, Illinois, New York, Ohio, South Dakota, Virginia and Wisconsin are all represented on the F list for the first time in years.

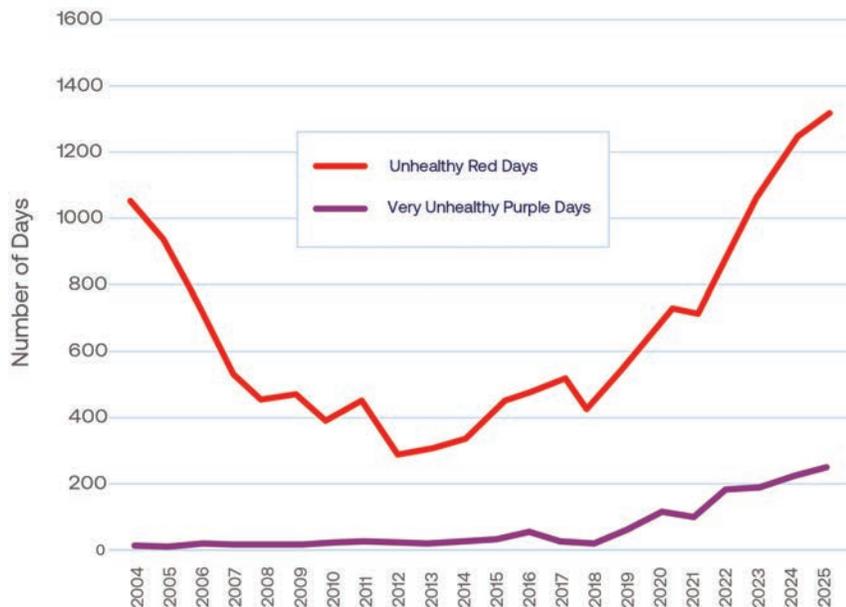
Wildfire has clearly emerged as a major driving factor in determining where in the country people are being exposed to unhealthy spikes in particle pollution. As states and counties experience shifting conditions of heat and precipitation—“good fire years” and “bad fire years”—their levels of air pollution can vary significantly. For example, compared to the disastrous 2020 fire year in California, the three years included in “State of the Air” 2025 were relatively better in the state, allowing counties like Santa Barbara and Marin to go from an F to an A grade in this year's report. In contrast, smoke from extensive wildfires in Canada in 2023 resulted in extremely high levels of fine particle pollution on many days throughout parts of the northeastern and north central U.S. that have not historically been thought of as “fire country.”

Wildfires are also continuing to increase the severity of pollution, with smoke in eastern states resulting in this report's highest ever number of red and purple days for particle pollution (1,280 and 231 days, respectively). These are levels on the Air Quality Index that carry strong health warnings. On red Unhealthy days, not only are members of sensitive groups likelier to “experience more serious health effects,” but also “some members of the general public may experience health effects.” On purple Very Unhealthy days, “the risk of health effects is increased for everyone.”

77 million people
live in counties
with **F grades**
for daily particle
pollution.



Days of Unhealthy Particle Pollution Continue to Rise

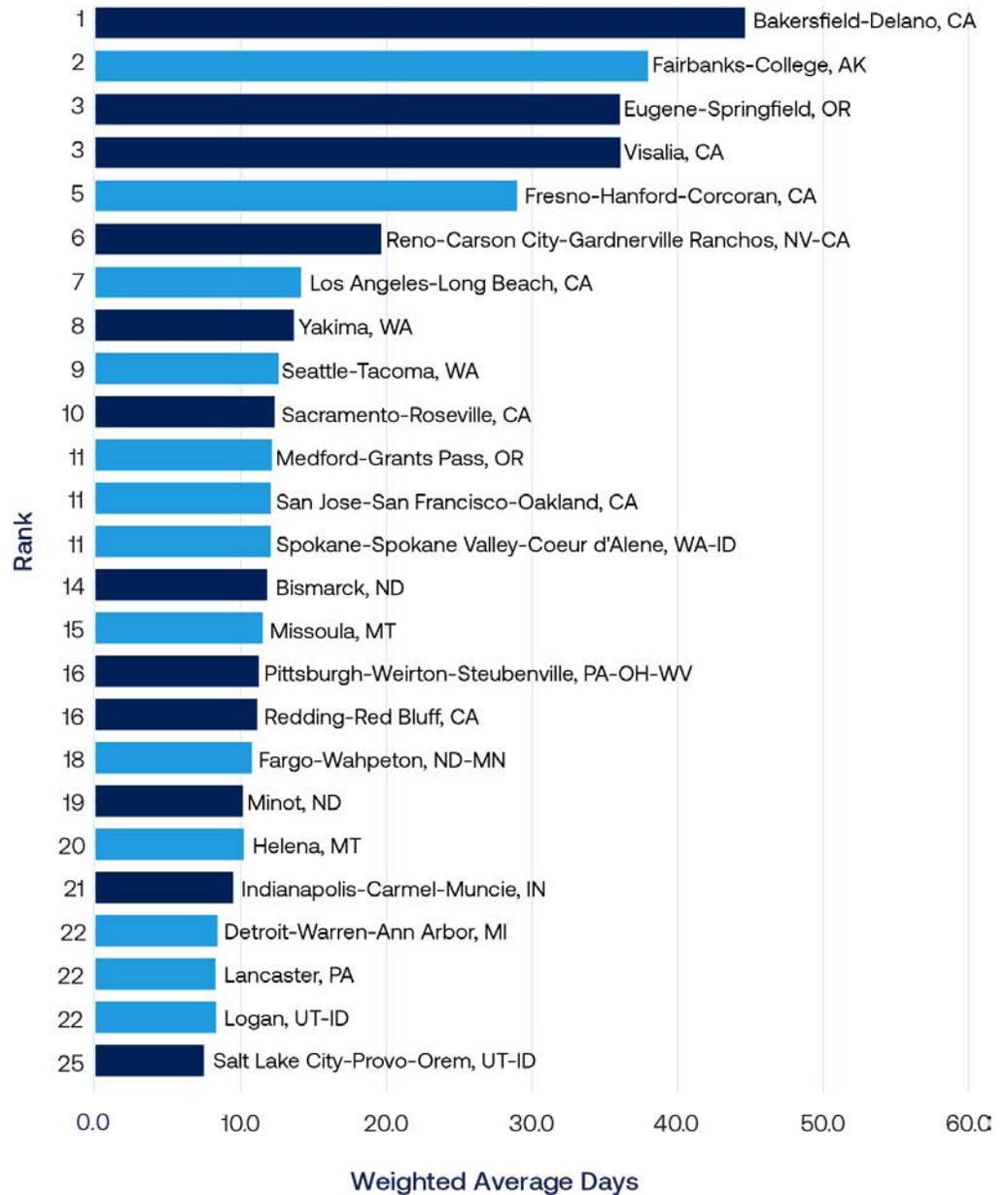


There were also 27 maroon Hazardous days, the highest category, days on which a health warning of emergency conditions is issued, saying, “Everyone is more likely to be affected.” Although this is fewer maroon days than in “State of the Air” 2023 and 2024, it is a sharp change from the fewer than ten maroon days reported from 2004 to 2016.

This year’s report finds that the health of 56.3 million people across 140 counties in 25 states was put at risk on severely polluted Very Unhealthy (purple) and Hazardous (maroon) days for fine particle pollution. This is 24 million more people than in last year’s report. This is drastically worse than the findings in last year’s “State of the Air” and a shocking demonstration of a trend that not only is continuing but worsening as a consequence of climate change.

In better news, comparing cities ranked the worst 25 in last year’s report with those in this year’s, the average number of days per year that residents were exposed to high levels of fine particle pollution decreased by about three days. (However, it was to a still seriously poor weighted average of 16.5 days.) All but one of the ten worst cities on the list improved in this year’s report, including Bakersfield, California, which experienced a weighted average of 17.5 fewer bad air days in 2021-2023 for spikes in particle pollution. The exception was Visalia, California, which recorded its highest level of particle pollution spikes in the history of the report—for the third year in a row.

25 Cities Most Polluted by Daily PM



As a result of the geographic shifts in high levels of particle pollution, eight of last year's Worst 25 cities have been replaced in this year's report. Medford, Oregon and Lancaster and Pittsburgh, Pennsylvania rejoined the list after a one-year hiatus. Worsened air quality in Indianapolis, Indiana; Detroit, Michigan; and Bismarck, North Dakota led to them being added to the list. Helena, Montana and Minot, North Dakota, both newly designated Metropolitan Statistical Areas in 2023, join the list for the first time, though Helena's air quality would have put it among the worst 25 in last year's report had it been classified as a metro region.

Improved enough to leave the Worst 25 list this year are the western cities of Phoenix, Arizona; Chico, Salinas, and San Diego, California; Denver, Colorado; Boise City, Idaho; Las Vegas, Nevada and Portland, Oregon.

85 million people
live in counties with failing
grades for year-round
particle pollution



Year-round Particle Pollution Trends

“State of the Air” 2025 finds that 85 million people living in 115 counties across 31 states have been exposed to year-round levels of particle pollution that do not meet the annual air quality standard. This is a small improvement over the 90.7 million people living in places that got failing marks in last year’s report, but still a sobering reminder of the widespread, chronic nature of this deadly form of air pollution.

When looking nationwide at all the counties with measurements for this pollutant, the average severity of annual particle pollution is effectively unchanged since last year’s report. By its nature, the year-round measure of average particle pollution is not as changeable from year to year as the daily measure. Variations over time may look smaller, but because they typically represent recurring exposures over many days and weeks, seemingly minor differences can have a big impact on public health.

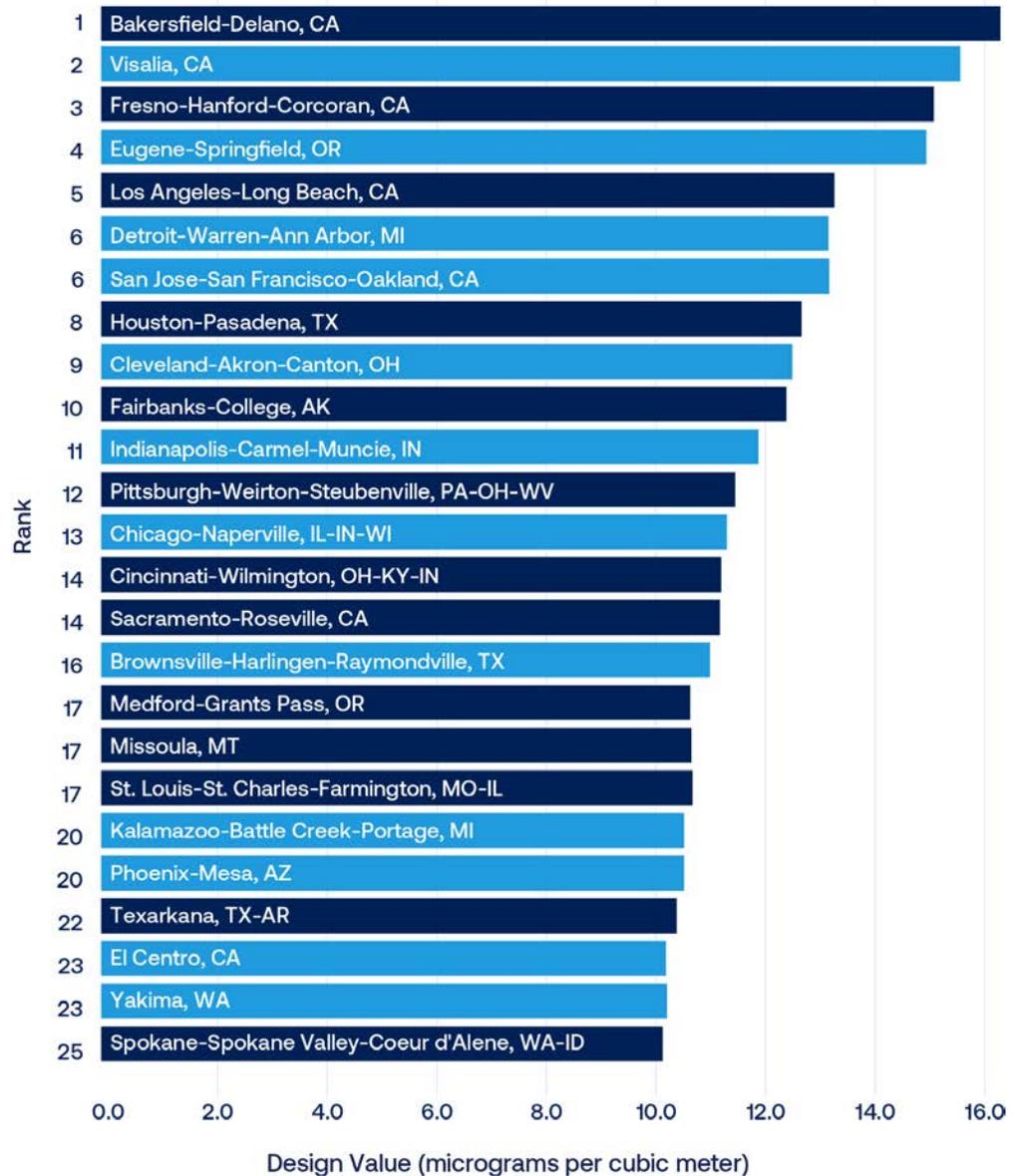
Annual particle pollution levels are most often highest in places that are subject to multiple sources of emissions all year long, such as from highways, oil and gas extraction, power generation and industry. The additional pollution load from wildfire smoke, though comparatively short-lived in any one location, can strongly influence that location’s annual average. In this year’s report, this influence can be seen reflected in geographic shifts similar to that seen with short-term particle pollution.

Unsurprisingly, given the transport of wildfire smoke across the country, the states with the worst changes from last year’s report are mainly in the north central and eastern parts of the U.S. Ten states, ranging from North Dakota to Maryland, saw the year-round average for fine particle pollution get worse in every one of their counties monitored for this pollutant.

In contrast, though California still ranks near the top for worst statewide average, there were 37 million more people living with improved levels than with worse levels compared with last year’s report. All but one of California’s 42 counties for which comparisons could be made show improvement.

In “State of the Air” 2025, the 25 most polluted cities for year-round particle pollution bucked the worsening trend of recent years by improving an average of about 0.4 micrograms per cubic meter (from 12.35 to 11.98 $\mu\text{g}/\text{m}^3$). Thirteen of them, all in western states, improved. Fresno–Hanford–Corcoran and Los Angeles–Long Beach, California, posted their lowest levels ever, though they are still among the worst five. Eleven metro areas worsened compared with their levels in last year’s report. One (Indianapolis–Carmel–Muncie, IN) was unchanged. None of the 25 most polluted cities for this measure posted their worst-ever levels of year-round particle pollution.

25 Cities Most Polluted by Annual PM



Because of the geographic shift in areas of worse or improved particle pollution, there are more shifts in the rankings on the Worst 25 list than usual. Though the four worst metro areas keep their same ranks as in last year's report, most of the others on the list have moved up or down quite a bit.

Six metro areas experienced levels of air pollution that moved them onto the Worst 25 list. Cleveland, Ohio posted the most dramatic shift in the country, resulting in its rank dropping from 54th to 9th worst. Kalamazoo, Michigan and Brownsville and Texarkana, Texas are all making an appearance on this list for the first time. Missoula, Montana rejoins the list after a three-year absence. St. Louis, Missouri rounds out the additions this year.

Improving enough to leave the list are Augusta, Georgia; Chico, California; Kansas City, Missouri; Las Vegas and Reno, Nevada; Oklahoma City, Oklahoma and Corpus Christi, Texas.

Populations at Risk

More than 265 million people live in the 885 counties with enough monitoring data to be assigned a grade for at least one pollutant in this year's report. The majority of U.S. counties actually don't have monitors—which means that many communities, especially rural ones, don't have official monitored information on their air quality.

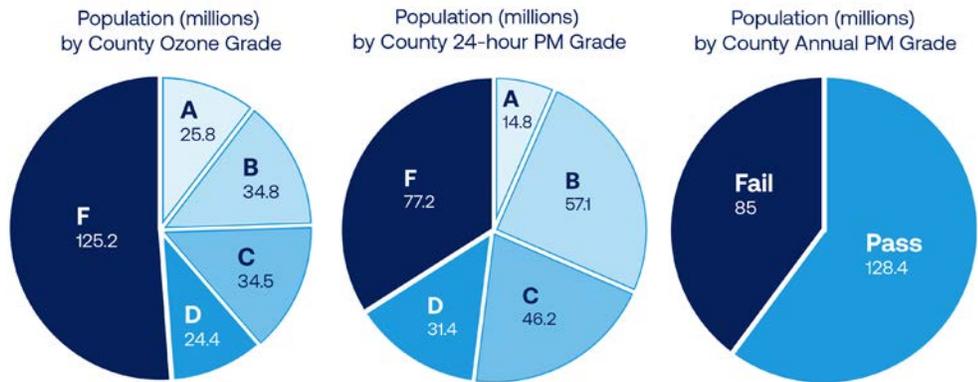
Addressing Data Gaps in Unmonitored Counties

“State of the Air” has long served as a trusted resource for tracking national trends in ozone and particle pollution, but many counties remain unmonitored, leaving communities without access to vital air quality information. To help close these gaps, the American Lung Association's “Something in the Air” reports explore the potential of using emerging technologies to expand the understanding of pollution exposure in under-monitored regions.

The “Something in the Air” series is intended to supplement the “State of the Air” report, providing a clearer picture of air quality where monitoring is limited. By utilizing satellite data and other emerging data tools to complement monitoring networks and expand air quality assessment, community members and decision-makers can better identify pollution hotspots, strengthen research and advocate for more comprehensive clean air protections. Together, these efforts work toward the same goal of ensuring all communities, especially those most at risk, have the information needed to fight for cleaner, healthier air. Learn more at [Lung.org/something-in-the-air](https://lung.org/something-in-the-air).

It is important to note that the population numbers included in this section are only for those places that collect air pollution data, and do not reflect the entire population of these groups in the U.S. The availability of data, and hence the population that is included in this report, differs for each pollutant.

All 156.1 million people in the U.S. living in places with failing grades for unhealthy levels of ozone or particle pollution are at risk of harm to their health. But some groups of people are especially vulnerable to illness and death from their exposure. See **People at Risk** for more detail about the factors that contribute to increased risk.



The number of people in these high-risk groups in “State of the Air” 2025 are as follows:

- **Children and older adults**—More than 34.6 million children under age 18 and some 25.2 million adults age 65 and over live in counties that received an F for at least one pollutant. Close to 9.5 million children and more than 6.7 million seniors live in counties failing all three measures.
- **People with underlying health conditions**
 - **Asthma**—More than 2.5 million children and nearly 11.8 million adults with asthma live in counties that received an F for at least one pollutant. More than 638,000 children and some 3.1 million adults with asthma live in counties failing all three measures.
 - **Chronic Obstructive Pulmonary Disease (COPD)**—Some 6.8 million people with COPD live in counties that received an F for at least one pollutant. Close to 1.7 million people with COPD live in counties failing all three measures.
 - **Lung Cancer**—Nearly 72,000 people diagnosed with lung cancer as of 2021 live in counties that received an F for at least one pollutant, and about 17,500 people ever diagnosed with lung cancer live in counties failing all three measures.
 - **Cardiovascular Disease**—Close to 9.7 million people with cardiovascular disease live in counties that received an F for at least one pollutant. Nearly 2.5 million people live in counties failing all three measures.
 - **Pregnancy**—Adverse impacts from air pollution have been shown both for those who are pregnant as well as for the developing fetus. More than 1.7 million pregnancies were recorded in 2023 in counties that received at least one failing grade for air pollution. Of those, close to 453,000 were in counties that received failing grades for all three measures.
- **People experiencing poverty**—Nineteen million people with incomes meeting the federal poverty definition live in counties that received an F for at least one pollutant. Close to 5.7 million live in counties that received failing grades for ozone and/or particle pollution. Over 26.0 million people of color live in counties that received failing grades on all three measures, including some 15.2 million Hispanics.

For more detail about the number of people at risk by grade and by pollutant, see **Data Table 1**. The populations at risk are also included by county in the **State Data Tables**.

Most Polluted Places to Live

In addition to the 25 worst cities for each pollutant listed above, the 25 most polluted counties for ozone and particle pollution are ranked in the tables below.

Ozone Ranking	State	County	WA	PM Ranking	State	County	WA	Annual PM Ranking	State	County	DV
1	California	San Bernardino	153.7	1	California	Kern	44.3	1	California	Kern	16.2
2	California	Riverside	113.7	2	Alaska	Fairbanks North Star Borough	38.7	2	California	Tulare	15.7
3	California	Los Angeles	98.5	3	California	Tulare	36.5	3	California	Fresno	14.8
4	California	Tulare	88.7	3	Oregon	Lane	36.5	4	Oregon	Lane	14.4
5	California	Kern	72.8	5	California	Fresno	28.8	5	California	Kings	14.1
6	Arizona	Maricopa	54.8	6	California	Kings	26.5	6	California	Plumas	14
7	California	Fresno	46.8	7	California	Siskiyou	26.2	7	California	San Bernardino	13.1
8	Colorado	Jefferson	36.7	8	Oregon	Klamath	20.8	8	California	Stanislaus	13
9	Texas	Harris	34.8	9	Nevada	Douglas	19.2	8	Michigan	Wayne	13
10	California	San Diego	27.5	10	California	Inyo	18.7	10	Montana	Lincoln	12.8
11	Utah	Salt Lake	25.7	11	Nevada	Washoe	18.5	11	California	Riverside	12.6
12	Texas	Denton	25.5	12	Nevada	Carson City	17.5	12	Texas	Harris	12.5
13	Colorado	Douglas	25.2	13	California	Plumas	17.3	13	Washington	Okanogan	12.3
14	Utah	Uintah	24.5	14	Montana	Ravalli	14.5	14	California	Los Angeles	12.2
15	New Mexico	Eddy	24.3	15	California	Riverside	14	14	Ohio	Cuyahoga	12.2
16	California	Placer	22.5	16	Washington	Yakima	13.8	16	Alaska	Fairbanks North Star Borough	12.1
17	Nevada	Clark	22.2	17	Washington	Okanogan	13.3	17	Oregon	Klamath	12
18	Texas	Tarrant	21.5	18	Idaho	Lemhi	12.8	18	Indiana	Marion	11.9
19	Colorado	Larimer	20.8	19	Montana	Silver Bow	12.3	19	California	Siskiyou	11.7
20	California	Stanislaus	20.5	19	Washington	Snohomish	12.3	20	Pennsylvania	Allegheny	11.6
21	Illinois	Cook	20.3	21	California	Nevada	12.2	21	Illinois	Cook	11.3
22	Connecticut	Fairfield	20.2	22	California	Stanislaus	12	22	California	San Joaquin	11.2
23	Colorado	Arapahoe	19.5	22	Oregon	Jackson	12	22	California	Sutter	11.2
24	California	Imperial	19.3	22	Washington	Stevens	12	22	Ohio	Butler	11.2
25	Arizona	Pinal	19.2	25	North Dakota	Burleigh	11.7	25	California	Mendocino	11

Twenty-seven counties, listed alphabetically by state below, received failing grades for all three measures of pollution:

Arizona	Maricopa, Pinal
California	Fresno, Imperial, Kern, Kings, Los Angeles, Madera, Merced, Orange, Riverside, Sacramento, San Bernardino, Stanislaus, Sutter, Tulare
Illinois	Cook
Indiana	Lake, Marion
Michigan	Wayne
Ohio	Butler, Cuyahoga
Pennsylvania	Philadelphia
Nevada	Washoe
Utah	Salt Lake
Wisconsin	Milwaukee, Waukesha

Cleanest Places to Live

Many cities in the U.S. enjoy air that is considered clean for one or more of the pollution measures tracked in “State of the Air.” In this year’s report, 35 of the cities for which there is monitoring data had zero high ozone days and 22 cities had zero days with high levels of short-term particle pollution. This is a considerable worsening from last year’s report, when 55 cities had no days of high ozone and 75 had no spikes in particle pollution. Because year-round particle pollution is scored differently, the cleanest cities for this measure can be ranked, and the best 25 are considered cleanest. See **Data Tables 3a-c**.

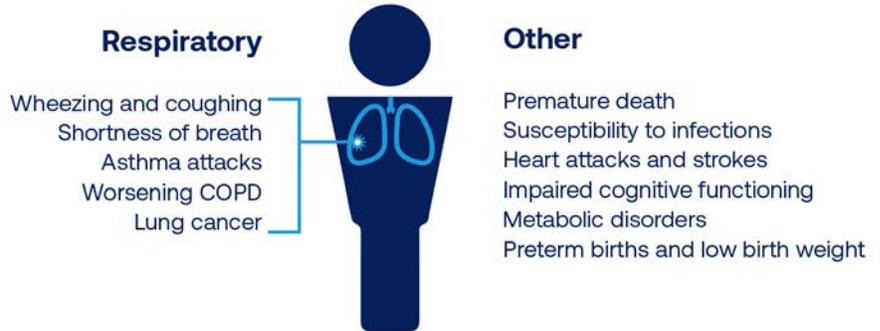
In another grim indicator of the deterioration of air quality nationwide in this year’s report, only two cities—Bangor, Maine and San Juan-Bayamón, Puerto Rico—rank on all three cleanest cities lists. They both earned an A for ozone and short-term particle pollution and are among the 25 cities with the lowest year-round particle levels.

The other four cities that made the Cleanest Places to Live list last year, Johnson City-Kingsport-Bristol, TN-VA, Lincoln-Beatrice, NE, Urban Honolulu, HI and Wilmington NC, all had at least one bad particle pollution day that cost them an A and a return to the cleanest cities list.

Health Impact of Air Pollution

Years of scientific research have clearly established that particle pollution and ozone are a threat to human health at every stage of life, increasing the risk of premature birth, causing or worsening lung and heart disease, and shortening lives. Some groups of people are more at risk of illness and death than others, because they are more likely to be exposed, or are more vulnerable to health harm, or often both.

Air pollution can harm children and adults in many ways



Health Effects of Particle Pollution

Particle pollution – also known as particulate matter or soot – is a deadly and growing threat to public health in communities around the country. The more researchers learn about the health effects of particle pollution, the more dangerous it is recognized to be.

What is particle pollution?

Particle pollution refers to a mixture of tiny bits of solids and liquids in the air we breathe. Particle pollution comes from many sources. Factories, power plants, and diesel- and gasoline-powered vehicles and equipment either directly emit fine particles or generate other pollutants, such as nitrogen oxides (NO_x) and sulfur oxides (SO_x), known as precursors because they can then form into fine particles in the atmosphere. Other sources of particle pollution include wildfires, burning wood in wood stoves or residential fireplaces and burning biomass for electricity.

Researchers and regulators categorize particles according to size, grouping them as coarse, fine and ultrafine. Coarse particles, called PM₁₀, can include wind-blown dust, ash, pollen and smoke. Fine particles, PM_{2.5}, are most often a by-product of burning wood or fossil fuels, and may include components such as toxic compounds, salts and metals. The tiniest are called ultrafine particles, or PM_{0.1}. They are also produced by combustion and are included in the larger category of PM_{2.5}.

Individual fine particles are too small to be visible, but when pollution levels are high, they can make the air appear thick and hazy.



The differences in size make a difference in how particles affect our health. Our bodies' natural defenses help us to keep the coarse particles we inhale out of the deepest parts of our lungs, although these particles do deposit in the larger airways. However, those defenses do not keep smaller fine or ultrafine particles from penetrating deep into the lungs and even all the way into the air sacs. Many of these particles get trapped there, while the smallest are so tiny that they can pass from the air sacs into the bloodstream and disperse to other organs of the body.

What can particles do to your health?

Particle pollution can be very dangerous to breathe, especially at higher concentrations. It can trigger illness, hospitalization and premature death. Researchers estimate that PM_{2.5} is responsible for more than 50,000 premature deaths in the United States every year.¹

Short-Term Exposure

Short-term spikes in fine particle pollution that last from a few hours to a few days can kill. Premature deaths from breathing these particles can occur on the very day that particle levels are high, or up to a month or two afterward. Most premature deaths are from respiratory and cardiovascular causes. Fine particle pollution does not just make people die a few days earlier than they might otherwise—in many cases these deaths would not have occurred for years if the air were cleaner.²

Studies linking short-term exposure to PM_{2.5} to death from all causes have been accumulating for a number of years. Taken together, this body of research provides consistent evidence of positive associations between fine particle pollution and mortality across diverse geographic locations and in populations with a wide range of demographic characteristics. In 2019, an international study looking at 499 cities across the globe reinforced these consistent findings.³

Exposure to even low levels of fine particles can be deadly. Looking nationwide in a 2017 study, researchers found that older adults faced a higher risk of premature death even when levels of short-term particle pollution remained well below the current national standard. This was consistent whether the older adults lived in cities, suburbs or rural areas.⁴ Another study published in 2018 using data from 135 U.S. cities found a causal relationship between mortality and exposure to PM_{2.5} at concentrations below the federal standard.⁵

Particle pollution also has many other harmful effects, ranging from decreased lung function to heart attacks. Extensive research has linked short-term increases in particle pollution to:

- increased mortality in infants;⁶
- increased hospital admissions for cardiovascular disease, including heart attacks and strokes;⁷
- increased hospital admissions and emergency department visits for chronic obstructive pulmonary disease (COPD);⁸
- increased severity of asthma attacks and hospitalization for asthma among children.^{9,10}

Year-Round Exposure

Decades of research have firmly established that breathing particle pollution day in and day out can also be deadly. Across numerous seminal studies that looked at different groups of people living in different parts of the country, the results consistently showed a clear relationship between long-term exposure to particulate matter and mortality.¹¹

Research using publicly available data on a cohort of more than one million adults in the U.S. reconfirmed that long-term exposure to PM_{2.5} was associated with elevated risk of early death. The increased risk was primarily associated with death from cardiovascular and respiratory causes, including heart disease, stroke, influenza and pneumonia. Researchers also found a similar association between exposure to fine particle pollution and an increased risk of death from lung cancer among never-smokers.¹² Another study of 68.5 million Medicare-enrolled adults in the United States between 2000 and 2016 found a 6-8% increase in risk of all-cause mortality for every 10µg/m³ increase in the annual average PM_{2.5}.¹³

Research has also linked year-round exposure to particle pollution to a wide array of serious health effects at every stage of life, from conception through old age. Among

individuals who are pregnant, fetuses and children, long-term particle pollution exposure is linked to:

- Increased risk of preterm birth and low birth weight;¹⁴
- Increased fetal and infant mortality;¹⁵
- Impaired neurological development and cognition;¹⁶
- Reduced lung development and impaired lung function in children;¹⁷
- Higher likelihood of children developing asthma.¹⁸

In adults, long-term particle pollution exposure is linked to:

- Increased risk from existing cardiovascular and respiratory disease, including a worsening of heart disease, atherosclerosis and COPD;^{19,20}
- Higher likelihood of developing diabetes and subsequent complications;^{21,22}
- Higher likelihood of getting lung cancer and of dying from it;²³
- Impaired cognitive functioning and an increased risk of Parkinson's disease, Alzheimer's disease and other dementias later in life;^{24,25}
- Increased risk of clinical depression and anxiety.²⁶

The good news is that cleaning up particle pollution makes a difference. Research has shown a consistent relationship between decreasing PM_{2.5} concentrations and improving respiratory health in children and reduced mortality of adults in communities that have reduced their levels of year-round particle pollution.^{27,28}

Who is most at risk from particle pollution?

Anyone who lives where particle pollution levels are high is at risk. Some people face greater risk, however, based on their underlying health and other characteristics. [See the **People at Risk** section for more information about vulnerable groups] Research has shown that the groups at the greatest risk from particle pollution include:

- Pregnant people and fetuses;²⁹
- Infants, children and people age 65 and older;³⁰
- People with lung disease, especially asthma, but also people with COPD;³¹
- People with cardiovascular disease;³²
- People with lung cancer;³³
- People of color;³⁴
- Current or former smokers;³⁵
- People with low incomes;³⁶ and
- People who are obese or have diabetes.³⁷

Health Effects of Ozone Pollution

Ground-level ozone, sometimes known as smog, is one of the most widespread and dangerous pollutants in the United States. Scientists have studied the effects of ozone on human health for decades. Hundreds of studies have confirmed that ozone harms people at levels currently found in many parts of the United States.

What is Ozone Pollution?

Ozone is a gas composed of molecules with three oxygen atoms. (The oxygen we need for life is made up of molecules with two oxygen atoms.) Ozone forms in the lower atmosphere when a combination of pollutants, usually nitrogen oxides (NOx) and volatile organic compounds (VOCs), “cook” together in sunlight through a series of chemical reactions. NOx and VOCs are produced primarily when fossil fuels such as gasoline, diesel, oil, natural gas or coal are burned or when solvents and some other chemicals evaporate. NOx is emitted from power plants, motor vehicles and other sources of

high-heat combustion. VOCs are emitted from motor vehicles, oil and gas operations, chemical plants, refineries, factories, gas stations, paint, consumer products and other sources. If these ingredients are present under the right conditions, they react to form ozone. Sunlight is key, with higher temperatures increasing ozone production. Because the reactions take place in the atmosphere, ozone often shows up downwind of the sources of the original emissions, sometimes many miles from where it formed.



Ozone air pollution is sometimes called ground-level ozone, to distinguish it from the much higher-altitude stratospheric ozone layer that protects people from damaging ultraviolet rays from the sun.

What Can Ozone Pollution Do to Your Health?

Ozone gas is a powerful lung irritant. When it is inhaled into the lungs, it reacts with the delicate lining of the small airways, causing inflammation and other damage that can impact multiple body systems. Ozone exposure can also shorten lives.

Ozone has a serious effect on the respiratory system, both in the short term and over the course of years of exposure.

When ozone levels are high, many people experience breathing problems such as chest tightness, coughing and shortness of breath, often within hours of exposure. Even healthy young adults may experience respiratory symptoms and decreased lung function.³⁸

Other breathing problems that have been tied to short-term exposure to ozone include:

- Worsening of symptoms, increased medication use, and increased emergency department visits and hospital admissions for people with asthma and COPD;³⁹
- Susceptibility to respiratory infections such as pneumonia, resulting in an increased likelihood of emergency department visits and hospitalizations.⁴⁰

Living with ozone pollution long term may cause lasting damage to respiratory health, including:

- Development of new cases of asthma in children;⁴¹
- Damage to the airways, leading to development of COPD;⁴²
- Increased allergic response.⁴³

The inflammation and oxidative stress caused by short- and long-term exposure to ozone can also do damage to tissues, genes and proteins throughout the body, which can cause or worsen other disease conditions over time. These include:

- Potential increased risk of metabolic disorders, including glucose intolerance, hyperglycemia and diabetes;⁴⁴
- Potential impact on the central nervous system, including brain inflammation, structural changes and increased risk of cognitive decline;^{45,46}
- Increased likelihood of reproductive and developmental harm, including reduced fertility, pregnancy complications, preterm birth, stillbirth and low birth weight;^{47,48}
- Possible cardiovascular effects.⁴⁹

The damage ozone does to the body can be deadly. Recent research has affirmed earlier findings that short-term exposure to ozone, even at levels below the current standard, likely increases the risk of premature death, particularly for older adults.⁵⁰

There is also a growing body of evidence that long-term exposures to ambient ozone may be associated with an increased risk of cardiovascular and respiratory disease mortality.⁵¹

Who is Most at Risk from Ozone Pollution?

Anyone who spends time outdoors where ozone pollution levels are high may be at risk. Some people face a higher-than-average risk, however, because of their underlying health and other characteristics. [See the **People at Risk** section for more information about vulnerable groups.] Research has shown that the groups at greatest risk from ozone pollution include:

- Pregnant people and fetuses;⁵²
- Children;
- Anyone 65 and older;
- People with existing lung disease such as asthma and COPD;
- People who work or exercise outdoors.⁵³

People at Risk

The health burden of air pollution is not evenly shared. Some people are more at risk of illness and death from air pollution than others. Several key factors affect an individual's level of risk:

- Exposure – Where someone lives, where they go to school and where they work makes a big difference in how much air pollution they breathe. In general, the higher the exposure, the greater the risk of harm.
- Susceptibility – Individuals who are pregnant and their fetuses, children, older adults and people living with chronic conditions, especially heart and lung disease, may be physically more susceptible to the health impacts of air pollution than other adults.
- Access to healthcare – Whether or not a person has health coverage, a healthcare provider, and access to linguistically and culturally appropriate health information may influence their overall health status and how they are impacted by environmental stressors like air pollution.
- Psychosocial stress – There is increasing evidence that non-physical stressors such as poverty, racial/ethnic discrimination and residency status can amplify the harmful effects of air pollution.

These risk factors are not mutually exclusive and often interact in ways that lead to significant health inequities among subgroups of the population. Taken all together, these high-risk categories account for a large proportion of the U.S. population.

People of color

Research has shown that people of color are more likely to be exposed to air pollution and more likely to suffer harm to their health from air pollution than white people.^{54,55} Much of this inequity can be traced to the long history of systemic racism in the United States. Practices such as redlining, the discriminatory outlining of so-called “riskier” neighborhoods by mortgage lenders, institutionalized residential segregation in the 20th century, impairing the ability of many people of color to build wealth and limiting their mobility and political power. Over the years, decision-makers have found it easier to place sources of pollution such as power plants, industrial facilities, landfills and highways, in economically disadvantaged communities of color than in more affluent, predominantly white neighborhoods. The resulting disproportionate exposure to air pollution has contributed to high rates of emergency department visits for asthma and other diseases.^{56,57}

People of color are also more likely than white people to be living with one or more

chronic conditions that make them more susceptible to the health impacts of air pollution, including asthma and diabetes.⁵⁸

People experiencing poverty

There is evidence that having low income or living in lower income areas puts people at increased risk from air pollution, although the correlation is not as strong as with race and ethnicity.^{59,60} People living in poverty are more likely to live in close proximity to sources of pollution and have fewer resources to relocate than people with more financial security.⁶¹ Poverty itself, along with the problems that beset many low-income communities, such as lack of safety, green space, and high-quality food access, have been associated with increased psychosocial distress and chronic stress, which in turn make people more vulnerable to pollution-related health effects.⁶² People with low income also have lower rates of health coverage and less access to quality and affordable health care to provide relief to them when they get sick.

Children

Children are both more susceptible to harm from air pollution and more likely to be exposed than adults. The growth and development of a child's lungs and breathing ability start in utero and continue into early adulthood. Long-term exposure to particle pollution during pregnancy and early childhood has been linked to reduced lung growth and long-term exposure to ozone has been linked to increased potential for the development of asthma. The developing brain and heart may also be affected, with life-long consequences.⁶³ In addition, the body's defenses that help adults fight off infections are still developing in children. Children have more respiratory infections than adults, which also seem to increase their susceptibility to air pollution.⁶⁴

Children breathe more rapidly and inhale more air relative to their size than do adults. They are more likely to spend time outdoors, running around, being active and breathing hard. Consequently, they are more exposed to polluted outdoor air than adults typically are.

Older adults

Much of the illness and premature death caused by air pollution occurs in older adults, who are at increased risk of harm for several reasons. As a person ages, the normal process of thinning and weakening of the lung tissue and the supporting muscle and bones of the ribcage results in diminishing lung function over time. The impairment that results from exposure to air pollutants then has an add-on effect, putting stress on the lungs and heart. Older people are also more likely to be living with chronic diseases, and there is evidence that co-existing chronic lung, heart or circulatory conditions may worsen following exposure to environmental pollutants.⁶⁵

The strength of the immune system also declines with age, leaving older people at greater risk of contracting infections and less able to get them under control before they become serious. Because exposure to air pollution increases susceptibility to respiratory infections, it also increases the risk of severe illness and death in older adults.

People with underlying health conditions

For the millions of people in the U.S. living with illnesses such as asthma, COPD, diabetes, heart disease and lung cancer, exposure to air pollution places them at greater risk of harm to their health than those without disease. The cellular injury and systemic inflammation triggered by breathing ozone and particle pollution put additional stress on people's lungs, heart and other organs already compromised by disease. This can result in a worsening of symptoms, increased medication use, more frequent emergency department visits and hospitalizations, an overall reduced quality of life and far too often premature death.

Individuals who are pregnant and fetuses

Pregnancy is always a susceptible time for both the person who is pregnant and the developing fetus. The pregnant body undergoes dramatic physiological changes in hormone levels, metabolism and circulation throughout the months of gestation. The rapid and complex development of the fetus is a precisely timed and sequenced process. The inflammation and oxidative stress resulting from exposure to air pollution during pregnancy can increase the risk of hypertensive disorders, including preeclampsia, and lead to intrauterine inflammation and damage to the placenta that can disrupt the growth and development of the fetus. Fetal health may also be impacted in a number of ways by environmental contaminants that have been shown to cross the placenta.⁶⁶

Exposure to both ozone and particle pollution during pregnancy is associated with premature birth, low birth weight and stillbirth. These risks are amplified when the individual who is pregnant is also at higher risk of health harm from air pollution in other ways, such living in poverty or having asthma.⁶⁷

People with a smoking history

There is some evidence suggesting that current and former smokers are at greater risk of health harm from exposure to fine particle pollution compared with never-smokers. They are more likely to develop lung cancer and to die prematurely.⁶⁸ Smoking damages the lungs, heart, blood vessels and other organs.⁶⁹ This impairment leaves the person with a smoking history more vulnerable to the health impact of air pollution than a never-smoker.

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Recommendations for Action

“State of the Air” 2025 illustrates the profound impact that climate change is having on air quality and the continued urgency of reducing the sources of emissions that contribute to ozone and particle pollution.

Under the Clean Air Act, the U.S. Environmental Protection Agency has driven decades of progress in cleaning up the transportation, electricity, buildings and industrial sectors. At the same time, EPA has tracked, analyzed and expanded the nation’s understanding of air pollution at the community level. Now, however, all of that progress is at risk.

Sweeping staff cuts and reduction of federal funding are stymieing the agency’s ability to ensure that people have clean air to breathe. This year’s “State of the Air” focuses on an overarching clarion call to people nationwide: support and defend EPA.

Defend EPA Staff and Funding

EPA is, first and foremost, a public health agency. The agency works at every level to address air pollution. People breathe easier every day because of the work of EPA’s staff, but they may not realize just how much these workers matter.

EPA staff are the reason the nation has access to air quality data in the first place, including through “State of the Air.” A team of environmental scientists, modelers and statisticians and other experts enable the Airnow.gov site to work, which allows people across the country to get air quality forecasts online. They work with state and local governments to share those forecasts with communities across the country. They review the health science and write and update guidance on what people should do to protect themselves when the air quality index hits yellow, orange, red, purple and maroon. They share resources with schools that help them keep students safe when air pollution reaches unhealthy levels.

EPA staff are vital to ensuring that unhealthy levels of air pollution are not just monitored but also cleaned up. This is done in part by writing strong, sound safeguards under the Clean Air Act. For example, EPA is required to regularly update the National Ambient Air Quality Standards – the national limits on ozone and particle pollution on which this report is based. The scientific staff keep abreast of what the scientific research shows about air pollution, come up with different policy options, lead the work of analyzing the benefits to health of each option, and gather public input. For other types of standards, like limits on specific pollutants from power plants and vehicles, EPA staff do complex technical analyses of what technologies are available to reduce pollution, how and where they’re being used, and what the impacts would be to health and to industry of pursuing different options.

Another part of ensuring pollution cleanup is making sure these strong safeguards are enforced. EPA staff do that too. They work with state and local governments to make sure new facilities are reviewed before they get built so that they don’t add to the burden of unhealthy air in a place that’s already too polluted. They test cars and trucks in labs to make sure they’re not emitting more pollutants than they’re supposed to. They inspect facilities to ensure their compliance with air quality standards to protect communities in the area. They bring cases against companies that violate the laws that protect public health.

EPA also gives grants and other funding to state and local governments, community organizations, businesses and more to help them monitor and reduce air pollution. Many of these grants are from programs to reduce emissions and invest in clean transportation and clean electricity under the Inflation Reduction Act. Many more are under longstanding programs that fund the everyday efforts that state and local governments make to ensure clean air. Without these funds, state and local governments would have a hard time running local air quality monitors, tracking where pollution is coming from and writing and implementing plans to reduce that pollution.

For all of these funds, EPA staff work hand-in-hand with these partners to make sure the funding goes where it needs to go and supports the work that needs to be done.

EPA's key principles are to follow the science, follow the law, and be transparent. Those principles have guided decades of progress toward cleaner air. But efforts to undercut them put the agency's core mission at risk.

The bottom line is this: EPA staff, working in communities across country, are doing crucial work to keep your air clean. Staff cuts are already impacting people's health across the country. Further cuts mean more dirty air.

Defend EPA Rules

In "State of the Air" 2024, we celebrated the fact that several lifesaving new air pollution safeguards were finalized by EPA, thanks to the hard work of agency staff and the health and environmental advocates who supported them. Now, that progress is at risk.

Executive orders issued in January 2025 and EPA announcements in March seek to overturn regulatory policies that reduce pollution from electricity generation and transportation. But a regulation cannot be overturned simply by an executive order or a press statement. That means that the clean air safeguards are still on the books, still the law of the land, and still need to be defended and protected, especially as new actions are announced to reconsider these lifesaving programs. They include:

Updated national particle pollution standards. EPA strengthened the annual fine particulate matter pollution standards from 12 $\mu\text{g}/\text{m}^3$ to 9 $\mu\text{g}/\text{m}^3$. States have submitted to EPA their recommendations for which areas should be cleaned up. Now the agency is required to review those recommendations and conduct its own analyses to finalize the areas that need additional pollution control by February 6, 2026.

Rules to clean up methane and other air pollutants from the oil and gas industry. EPA finalized rules to address leaks of methane from the oil and gas production process, like drilling operations. This is a crucial climate measure and will also reduce emissions of dangerous volatile organic compounds (VOCs). While Congress voted in February to overturn a separate methane prevention rule, these limits are still on the books.

Stronger standards for future cars. EPA finalized a rule that will make future light- and medium-duty vehicles cleaner. The rule will help get more zero-emission vehicles on the road and make new gasoline-powered cars less polluting too.

Stronger carbon pollution limits on future trucks and buses. EPA finalized a rule that will make sure future heavy-duty vehicles emit fewer greenhouse gases, including trucks and buses. A separate, 2023 rule also ensures future trucks and buses emit less nitrogen oxide emissions.

Stronger limits on mercury and air toxics from power plants. EPA tightened limits on toxic emissions from coal- and oil-fired power plants and strengthened monitoring requirements to help ensure that cleanup happens quickly.

Limits on carbon pollution from power plants. EPA set limits on carbon emissions from future gas-fired power plants, current coal-fired power plants and some current gas plants.

These rules are on the books. They were adopted by following the law, and EPA must uphold the rule of law now. The rules must stay in place and be implemented and enforced. Anything less means people will suffer health harms from dirty air that could have been prevented.

Move Forward at the State, City, Community and Individual Levels

States and cities still have many tools in their toolbox to reduce emissions that harm people's health, like cleaning up vehicles by adopting the Advanced Clean Cars II and Advanced Clean Trucks policies, investing in charging infrastructure for electric vehicles, and requiring more electricity to come from truly clean sources like wind, solar, geothermal and tidal. They can also adopt policies to reduce emissions from buildings, manufacturing facilities and freight activities.

Cities, communities and individuals can also adopt a suite of "smart surfaces" solutions – things like cool roofs, porous pavement, more green space and solar panels that help reduce heat in their neighborhoods and protect health from the combined health harms of pollution and dangerously high temperatures.

Individuals can keep themselves safe and help their friends and families do the same – things like checking daily air pollution forecasts at [Airnow.gov](https://airnow.gov), preparing for wildfires, floods and other disasters at [Lung.org/disaster](https://lung.org/disaster), and reducing emissions from their vehicle or home energy use in their own lives.

Above all: you can also use the power of your personal voice. Even in a time when clean air protections are under threat, the fact remains: people nationwide want clean air. The need for clean air is universal, nonpartisan and knows no boundaries. And sharing a story is powerful—whether it's a time when you had asthma symptoms on a smoggy day, your child spent days indoors because of wildfire smoke, or the concerns you have about how losses of staff and funding at EPA may impact the air you breathe. That's true when you take your story to your elected officials, but it's also true with family, friends, and other members of your community.

Understanding Grades and Tables

See **Methodology** for a full explanation of data sources and calculations made for state grades.

Notes for state grades tables

1. Not all counties have monitors for either ozone or particle pollution. If a county does not have any monitoring data for either pollutant, that county's name is not on the list in these tables. The decision about siting monitors in a county is made by the state and the U.S. Environmental Protection Agency, not by the American Lung Association.
2. **INC** (Incomplete) indicates that monitoring data is available for at least one year in that county, but not all three years.
3. **DNC** (Data Not Collected) indicates that data on that particular pollutant was not collected in that county during the three years covered in the report.
4. The **Weighted Average (Wgt. Avg.)** is derived by adding the three years of individual level data (2021-2023), multiplying the sums of each level by the assigned standard weights (i.e., 1=orange, 1.5=red, 2.0=purple and 2.5=maroon) and calculating the average. Grades are assigned based on the weighted averages as follows: A=0.0, B=0.3-0.9, C=1.0-2.0, D=2.1-3.2, F=3.3+.
5. The **Design Value** is the calculated concentration of a pollutant based on the annual National Ambient Air Quality Standard for PM_{2.5}, which is 9.0 µg/m³. Counties with design values of 9.0 or lower received a grade of "Pass" for Annual PM_{2.5}. Counties with design values of 9.1 or higher received a grade of "Fail."

Notes for at-risk groups tables

1. Adding across rows does not produce valid estimates. Adding the at-risk categories (asthma, COPD, poverty, etc.) will double-count people who fall into more than one category.
2. **Total Population** is based on 2023 U.S. Census and represents the at-risk populations in counties with ozone or PM_{2.5} pollution monitors; it does not represent the entire state's sensitive populations.
3. Those **18 & under** and **65 & over** are vulnerable to ozone and PM_{2.5}. Do not use them as population denominators for disease estimates—that will lead to incorrect estimates.
4. **Pediatric asthma** estimates are for those under 18 years of age and represent the estimated number of people in that age group who had asthma in 2023 based on the state rates, when available, or national rates when not (Behavioral Risk Factor Surveillance System, or BRFSS), applied to county population estimates (U.S. Census).
5. **Adult asthma** estimates are for those 18 years of age and older and represent the estimated number of people in that age group who had asthma during 2023 based on state rates (BRFSS) applied to county population estimates (U.S. Census).
6. **COPD** estimates are for adults 18 and over who had ever been diagnosed with chronic obstructive pulmonary disease, which includes chronic bronchitis and emphysema, based on state rates (BRFSS) applied to county population estimates (U.S. Census).
7. **Lung cancer** estimates are for all ages and represent the estimated number of people newly diagnosed with lung cancer in 2021 based on state rates (StateCancerProfiles.gov) applied to county population estimates (U.S. Census).
8. **Cardiovascular (CV) disease** estimates are for adults 18 and over who have been diagnosed within their lifetime, based on state rates (BRFSS) applied to county population estimates (U.S. Census). CV disease includes coronary heart disease, stroke and heart attack.
9. **Pregnancy** estimates are for females 18-49 and based on state rates of pregnancies resulting in live births applied to population estimates (U.S. Census).
10. **Poverty** estimates include all ages and come from the U.S. Census Bureau's Small Area Income and Poverty Estimates program. The estimates are derived from a model using estimates of income or poverty from the Annual Social and Economic Supplement and the Current Population Survey, 2023. Puerto Rico poverty estimates come from the U.S. Census Bureau's American Community Survey, 2019-2023.
11. **People of color** are defined as anyone Hispanic or as non-Hispanic Black, Asian, American Indian/Alaska Native, Native Hawaiian and Other Pacific Islander, or two or more races, based on 2023 county population estimates (U.S. Census). Puerto Rico race and ethnicity estimates come from the U.S. Census Bureau's American Community Survey, 2019-2023.
12. Based on a request from Connecticut, the Census Bureau shifted from providing population estimates by county to county-equivalent Planning Regions for the state starting with 2022 data. As air quality data continues to be county-based and Planning Regions are incompatible with historic Connecticut counties, Census Bureau population estimates from 2021 are used in this year's report. Disease rates are still from the latest year available.

Table 1 Populations at Risk by Grade and by Pollutant

People at Risk from Short-Term Particle Pollution (Daily PM_{2.5})

In Counties Where the Grades Were:	Chronic Diseases					Age Groups		Pregnancies	Poverty	People of Color	Total Population	Number of Counties
	Adult Asthma	Pediatric Asthma	COPD	Lung Cancer	CV Disease	Under 18	65 and Over					
Grade A (0.0)	1,124,915	247,119	762,250	7,208	1,092,866	3,102,575	2,727,090	157,238	2,130,229	6,588,285	14,764,458	62
Grade B (0.3-0.9)	4,289,395	902,647	2,777,553	28,165	3,969,488	12,088,644	9,863,933	633,944	7,077,114	27,984,148	57,142,408	160
Grade C (1.0-2.0)	3,578,296	777,059	2,115,172	22,314	2,924,564	10,284,615	7,315,386	518,938	5,392,423	22,628,156	46,214,218	132
Grade D (2.1-3.2)	2,494,526	488,473	1,516,172	16,743	2,033,166	6,701,796	5,520,433	333,157	3,772,420	12,136,398	31,357,228	100
Grade F (3.3+)	5,957,863	1,188,978	3,262,762	33,910	4,724,253	16,774,897	12,669,711	822,523	9,432,925	39,123,137	77,178,968	154
National Population in Counties with PM _{2.5} Monitors	17,961,644	3,707,933	10,774,444	111,852	15,242,636	50,483,527	39,407,042	2,541,883	28,671,471	111,697,262	233,762,815	648

People at Risk from Year-Round Particle Pollution (Annual PM_{2.5})

In Counties Where the Grades Were:	Chronic Diseases					Age Groups		Pregnancies	Poverty	People of Color	Total Population	Number of Counties
	Adult Asthma	Pediatric Asthma	COPD	Lung Cancer	CV Disease	Under 18	65 and Over					
Pass	10,122,909	2,011,982	6,078,482	63,610	8,596,829	26,953,506	22,409,791	1,381,553	15,058,221	55,546,609	128,380,895	426
Fail	6,258,046	1,379,394	3,663,712	38,256	5,202,276	19,216,717	13,211,682	946,632	11,101,103	48,309,996	84,997,574	115
National Population in Counties with PM _{2.5} Monitors	17,961,644	3,707,933	10,774,444	111,852	15,242,636	50,483,527	39,407,042	2,541,883	28,671,471	111,697,262	233,762,815	648

People at Risk from Ozone

In Counties Where the Grades Were:	Chronic Diseases				Age Groups		Pregnancies	Poverty	People of Color	Total Population	Number of Counties
	Adult Asthma	Pediatric Asthma	COPD	CV Disease	Under 18	65 and Over					
Grade A (0.0)	1,948,670	361,826	1,370,724	2,035,209	5,050,342	5,443,296	255,197	3,091,849	10,345,036	25,758,934	137
Grade B (0.3-0.9)	2,702,269	568,383	1,781,636	2,536,346	7,307,754	6,368,314	364,608	4,330,183	14,141,417	34,802,173	148
Grade C (1.0-2.0)	2,789,756	579,640	1,821,933	2,442,236	7,631,976	6,005,211	364,325	3,849,007	12,587,711	34,492,823	174
Grade D (2.1-3.2)	1,977,825	394,791	1,186,794	1,635,315	5,233,078	4,212,129	266,456	2,646,545	9,154,408	24,448,296	81
Grade F (3.3+)	9,392,704	1,980,591	5,322,148	7,585,423	27,684,476	19,946,133	1,379,521	15,054,422	66,483,656	125,231,723	211
National Population in Counties with Ozone Monitors	19,014,829	3,932,701	11,597,147	16,401,883	53,502,295	42,448,315	2,657,497	29,329,395	113,897,030	247,396,139	780

Table 2a People at Risk in 25 U.S. Cities Most Polluted by Short-Term Particle Pollution (Daily PM_{2.5})

2025 Rank	Metropolitan Statistical Areas	Total Population	Under 18	65 and Over	Pediatric Asthma	Adult Asthma	COPD	Lung Cancer	CV Disease	Pregnancies	People of Color	Poverty
1	Bakersfield-Delano, CA	913,820	259,728	111,264	16,473	57,210	25,454	313	42,581	9,148	639,578	169,857
2	Fairbanks-College, AK	94,840	22,535	12,395	1,565	7,941	3,951	49	4,980	1,202	30,209	7,015
3	Eugene-Springfield, OR	381,181	65,661	81,956	4,563	37,332	20,889	159	26,719	3,537	78,370	54,725
3	Visalia, CA	479,468	140,917	58,469	8,938	29,621	13,260	164	22,217	4,853	355,437	83,050
5	Fresno-Hanford-Corcoran, CA	1,332,702	364,673	175,198	23,129	84,749	38,374	457	64,440	13,466	972,180	229,167
6	Reno-Carson City-Gardnerville Ranchos, NV-CA	699,307	139,687	141,044	9,992	49,010	41,135	289	44,011	6,481	258,037	67,410
7	Los Angeles-Long Beach, CA	18,316,743	3,923,848	2,876,482	248,870	1,263,845	602,613	6,262	1,025,571	189,174	13,036,866	2,228,294
8	Yakima, WA	256,643	73,483	37,805	5,371	19,664	7,921	121	12,204	2,502	154,962	40,910
9	Seattle-Tacoma, WA	4,993,725	1,019,521	804,469	74,525	426,849	171,424	2,352	263,032	53,000	1,964,673	453,095
10	Sacramento-Roseville, CA	2,706,315	593,708	474,959	37,656	185,863	91,589	924	156,808	27,170	1,368,720	297,127
11	Medford-Grants Pass, OR	308,589	61,414	76,999	4,268	29,192	18,034	129	23,597	2,417	62,148	40,445
11	San Jose-San Francisco-Oakland, CA	9,001,024	1,861,823	1,497,266	118,086	627,407	303,409	3,078	517,775	91,577	5,990,798	872,151
11	Spokane-Spokane Valley-Coeur d'Alene, WA-ID	785,302	168,696	148,630	12,182	65,934	30,875	359	45,908	8,007	126,868	90,163
14	Bismarck, ND	135,786	31,657	25,018	2,060	10,507	5,524	72	8,727	1,606	17,796	10,229
15	Missoula, MT	126,939	22,681	22,869	1,532	12,369	6,916	57	7,793	1,473	15,909	14,224
16	Pittsburgh-Weirton-Steubenville, PA-OH-WV	2,727,866	508,773	605,974	50,022	227,806	173,588	1,468	250,600	25,746	410,735	313,183
16	Redding-Red Bluff, CA	245,262	54,424	52,782	3,452	16,873	8,997	84	15,642	2,158	65,965	33,160
18	Fargo-Wahpeton, ND-MN	285,484	64,560	40,164	3,994	22,676	9,854	150	15,535	3,909	47,884	28,800
19	Minot, ND	75,742	18,142	11,835	1,180	5,912	2,825	40	4,353	931	13,526	5,684
20	Helena, MT	96,091	20,040	20,545	1,354	8,952	5,576	44	6,602	891	9,097	8,618
21	Indianapolis-Carmel-Muncie, IN	2,651,953	629,614	417,423	42,718	234,648	164,452	1,645	195,165	31,238	763,082	292,453
22	Detroit-Warren-Ann Arbor, MI	5,361,927	1,139,647	989,127	82,844	467,408	359,574	2,846	405,547	53,288	1,795,028	739,466
22	Lancaster, PA	558,589	127,940	112,749	12,689	43,953	32,546	298	46,971	5,306	111,949	46,567
22	Logan, UT-ID	157,887	45,666	16,972	2,851	12,407	4,168	41	6,457	2,211	26,848	15,751
25	Salt Lake City-Provo-Orem, UT-ID	2,805,734	771,304	314,357	47,547	225,519	74,264	690	121,225	37,296	720,985	235,887

Notes:

Cities are ranked using the highest weighted average for any county within that Combined Metropolitan Statistical Area or Metropolitan Statistical Area.

Adding across rows does not produce valid estimates. Adding the disease categories (asthma, COPD, etc.) will double-count people who fall into more than one category.

Table 2b People at Risk in 25 U.S. Cities Most Polluted by Year-Round Particle Pollution (Annual PM_{2.5})

2025 Rank	Metropolitan Statistical Areas	Total Population	Under 18	65 and Over	Pediatric Asthma	Adult Asthma	COPD	Lung Cancer	CV Disease	Pregnancies	People of Color	Poverty
1	Bakersfield-Delano, CA	913,820	259,728	111,264	16,473	57,210	25,454	313	42,581	9,148	639,578	169,857
2	Visalia, CA	479,468	140,917	58,469	8,938	29,621	13,260	164	22,217	4,853	355,437	83,050
3	Fresno-Hanford-Corcoran, CA	1,332,702	364,673	175,198	23,129	84,749	38,374	457	64,440	13,466	972,180	229,167
4	Eugene-Springfield, OR	381,181	65,661	81,956	4,563	37,332	20,889	159	26,719	3,537	78,370	54,725
5	Los Angeles-Long Beach, CA	18,316,743	3,923,848	2,876,482	248,870	1,263,845	602,613	6,262	1,025,571	189,174	13,036,866	2,228,294
6	Detroit-Warren-Ann Arbor, MI	5,361,927	1,139,647	989,127	82,844	467,408	359,574	2,846	405,547	53,288	1,795,028	739,466
6	San Jose-San Francisco-Oakland, CA	9,001,024	1,861,823	1,497,266	118,086	627,407	303,409	3,078	517,775	91,577	5,990,798	872,151
8	Houston-Pasadena, TX	7,706,626	1,967,004	990,110	148,098	486,725	282,905	3,288	429,147	97,728	5,106,048	1,058,803
9	Cleveland-Akron-Canton, OH	3,732,803	773,498	767,567	52,388	326,574	241,288	2,289	300,854	38,634	928,916	477,528
10	Fairbanks-College, AK	94,840	22,535	12,395	1,565	7,941	3,951	49	4,980	1,202	30,209	7,015
11	Indianapolis-Carmel-Muncie, IN	2,651,953	629,614	417,423	42,718	234,648	164,452	1,645	195,165	31,238	763,082	292,453
12	Pittsburgh-Weirton-Steubenville, PA-OH-WV	2,727,866	508,773	605,974	50,022	227,806	173,588	1,468	250,600	25,746	410,735	313,183
13	Chicago-Naperville, IL-IN-WI	9,794,558	2,121,326	1,642,328	135,642	747,355	491,566	5,583	611,557	99,967	4,756,478	1,066,086
14	Cincinnati-Wilmington, OH-KY-IN	2,313,417	530,030	395,801	38,809	197,431	151,078	1,509	177,422	25,551	527,325	251,071
14	Sacramento-Roseville, CA	2,706,315	593,708	474,959	37,656	185,863	91,589	924	156,808	27,170	1,368,720	297,127
16	Brownsville-Harlingen-Raymondville, TX	446,747	125,079	64,917	9,417	27,393	16,644	191	25,463	5,200	406,406	103,978
17	Medford-Grants Pass, OR	308,589	61,414	76,999	4,268	29,192	18,034	129	23,597	2,417	62,148	40,445
17	Missoula, MT	126,939	22,681	22,869	1,532	12,369	6,916	57	7,793	1,473	15,909	14,224
17	St. Louis-St. Charles-Farmington, MO-IL	2,900,730	625,580	538,402	47,592	224,152	182,663	1,746	229,436	30,409	777,225	302,295
20	Kalamazoo-Battle Creek-Portage, MI	456,459	100,251	80,613	7,287	39,453	29,110	242	32,526	4,841	105,192	58,511
20	Phoenix-Mesa, AZ	5,124,113	1,127,488	883,602	90,893	412,019	217,161	1,942	303,431	55,017	2,382,001	562,977
22	Texarkana, TX-AR	145,907	34,333	26,385	2,511	10,172	7,693	75	11,124	1,592	52,952	23,723
23	El Centro, CA	179,057	50,348	25,158	3,193	11,282	5,219	61	8,804	1,651	163,029	29,810
23	Yakima, WA	256,643	73,483	37,805	5,371	19,664	7,921	121	12,204	2,502	154,962	40,910
25	Spokane-Spokane Valley-Coeur d'Alene, WA-ID	785,302	168,696	148,630	12,182	65,934	30,875	359	45,908	8,007	126,868	90,163

Notes:

Cities are ranked using the highest design value for any county within that Combined Metropolitan Statistical Area or Metropolitan Statistical Area.

Adding across rows does not produce valid estimates. Adding the disease categories (asthma, COPD, etc.) will double-count people who have been diagnosed with more than one disease.

Table 2c People at Risk in 25 Most Ozone-Polluted Cities

2025 Rank	Metropolitan Statistical Areas	Total Population	Under 18	65 and Over	Pediatric Asthma	Adult Asthma	COPD	CV Disease	Pregnancies	People of Color	Poverty
1	Los Angeles-Long Beach, CA	18,316,743	3,923,848	2,876,482	248,870	1,263,845	602,613	1,025,571	189,174	13,036,866	2,228,294
2	Visalia, CA	479,468	140,917	58,469	8,938	29,621	13,260	22,217	4,853	355,437	83,050
3	Bakersfield-Delano, CA	913,820	259,728	111,264	16,473	57,210	25,454	42,581	9,148	639,578	169,857
4	Phoenix-Mesa, AZ	5,124,113	1,127,488	883,602	90,893	412,019	217,161	303,431	55,017	2,382,001	562,977
5	Fresno-Hanford-Corcoran, CA	1,332,702	364,673	175,198	23,129	84,749	38,374	64,440	13,466	972,180	229,167
6	Denver-Aurora-Greeley, CO	3,691,404	766,337	542,420	53,221	334,291	129,858	182,148	39,810	1,355,755	321,700
7	Houston-Pasadena, TX	7,706,626	1,967,004	990,110	148,098	486,725	282,905	429,147	97,728	5,106,048	1,058,803
8	San Diego-Chula Vista-Carlsbad, CA	3,269,973	675,125	520,284	42,820	227,652	107,004	181,254	34,028	1,859,156	319,714
9	Salt Lake City-Provo-Orem, UT-ID	2,805,734	771,304	314,357	47,547	225,519	74,264	121,225	37,296	720,985	235,887
10	Dallas-Fort Worth, TX-OK	8,654,750	2,133,317	1,119,043	160,881	554,301	322,518	488,815	110,764	4,832,096	895,943
11	Sacramento-Roseville, CA	2,706,315	593,708	474,959	37,656	185,863	91,589	156,808	27,170	1,368,720	297,127
12	Las Vegas-Henderson, NV	2,392,293	521,126	397,842	37,280	164,626	130,769	138,996	24,076	1,450,276	305,770
13	Fort Collins-Loveland, CO	370,771	66,613	65,986	4,626	34,727	14,077	19,851	4,094	72,996	36,698
14	San Jose-San Francisco-Oakland, CA	9,001,024	1,861,823	1,497,266	118,086	627,407	303,409	517,775	91,577	5,990,798	872,151
15	Chicago-Naperville, IL-IN-WI	9,794,558	2,121,326	1,642,328	135,642	747,355	491,566	611,557	99,967	4,756,478	1,066,086
16	New York-Newark, NY-NJ-CT-PA	22,731,508	4,585,113	4,014,254	380,490	1,720,642	881,039	1,353,213	240,627	12,232,605	2,789,907
17	El Centro, CA	179,057	50,348	25,158	3,193	11,282	5,219	8,804	1,651	163,029	29,810
18	El Paso-Las Cruces, TX-NM	1,098,541	274,904	156,492	20,500	72,104	39,813	61,937	13,219	940,363	202,525
19	Tulsa-Bartlesville-Muskogee, OK	1,165,140	282,064	195,327	27,637	99,871	68,921	91,038	13,481	448,694	168,495
20	San Antonio-New Braunfels-Kerrville, TX	2,785,647	667,183	406,533	50,232	180,151	107,861	164,557	34,720	1,836,422	367,038
21	St. Louis-St. Charles-Farmington, MO-IL	2,900,730	625,580	538,402	47,592	224,152	182,663	229,436	30,409	777,225	302,295
22	Albuquerque-Santa Fe-Los Alamos, NM	1,168,363	229,761	243,368	16,413	91,815	47,095	79,693	11,425	717,410	158,778
23	Colorado Springs, CO	768,832	173,860	114,069	12,074	68,042	26,518	37,167	7,835	251,164	55,091
24	Redding-Red Bluff, CA	245,262	54,424	52,782	3,452	16,873	8,997	15,642	2,158	65,965	33,160
24	Sheboygan, WI	117,752	25,055	23,936	1,543	10,063	5,698	8,928	1,088	21,989	10,197

Notes:

Cities are ranked using the highest weighted average for any county within that Combined Metropolitan Statistical Area or Metropolitan Statistical Area. Adding across rows does not produce valid estimates. Adding the disease categories (asthma, COPD, etc.) will double-count people who have been diagnosed with more than one disease.

Table 3a Cleanest U.S. Cities for Short-Term Particle Pollution (Daily PM_{2.5})

Metropolitan Statistical Area	Population
Asheville-Waynesville-Brevard, NC	513,720
Bangor, ME	155,312
Burlington-Fort Madison, IA-IL	76,906
Charleston-North Charleston, SC	849,417
College Station-Bryan, TX	281,445
Fayetteville-Springdale-Rogers, AR	590,337
Gadsden, AL	103,241
Gulfport-Biloxi, MS	421,916
Hot Springs-Malvern, AR	133,042
Killeen-Temple, TX	501,333
Little Rock-North Little Rock, AR	913,536
Midland-Odessa-Andrews, TX	365,482
Mobile-Daphne-Fairhope, AL	665,147
Montgomery-Selma, AL	421,645
Pensacola-Ferry Pass-Brent, FL	530,090
Peoria-Canton, IL	394,781
Ponce-Coamo, PR	319,592
San Juan-Bayamón, PR	2,360,082
San Luis Obispo-Paso Robles, CA	281,639
Santa Maria-Santa Barbara, CA	441,257
Shreveport-Bossier City-Minden, LA	418,533
Tuscaloosa, AL	278,290

Note:

Monitors in these cities reported no days when PM_{2.5} levels reached the unhealthful range using the Air Quality Index based on the 2012 NAAQS.

Table 3b Top 25 Cleanest U.S. Cities for Year-Round Particle Pollution (Annual PM_{2.5})

2025 Rank	Design Value	Metropolitan Statistical Area	Population
1	3.7	Casper, WY	79,941
1	3.7	Urban Honolulu, HI	989,408
3	4.0	Kahului-Wailuku, HI	164,264
4	4.1	Bozeman, MT	126,409
5	4.8	Bangor, ME	155,312
6	5.1	St. George, UT	202,452
6	5.1	Anchorage, AK	401,314
8	5.2	Cheyenne, WY	100,984
9	5.3	Colorado Springs, CO	768,832
9	5.3	Grand Junction, CO	159,681
11	5.4	Wilmington, NC	467,337
12	5.7	Lubbock-Plainview, TX	396,955
13	5.9	Elmira-Corning, NY	173,487
13	5.9	Salinas, CA	430,723
15	6.0	Duluth-Grand Rapids, MN-WI	326,968
15	6.0	Gainesville-Lake City, FL	425,189
15	6.0	Amarillo-Borger, TX	292,428
18	6.1	Syracuse-Auburn, NY	727,441
19	6.2	Santa Rosa-Petaluma, CA	481,812
20	6.3	Asheville-Waynesville-Brevard, NC	513,720
21	6.4	Burlington-South Burlington-Barre, VT	288,084
22	6.6	Pittsfield, MA	126,818
23	6.7	San Juan-Bayamón, PR	2,360,082
23	6.7	Portland-Vancouver-Salem, OR-WA	3,286,669
23	6.7	Lynchburg, VA	264,590

Notes:

Cities are ranked by using the highest design value for any county within that metropolitan area.

Table 3c Cleanest U.S. Cities for Ozone Air Pollution

Metropolitan Statistical Area	Population
Augusta-Richmond County, GA-SC	629,429
Bangor, ME	155,312
Bellingham, WA	231,919
Brunswick-St. Simons, GA	116,074
Charleston-Huntington-Ashland, WV-OH-KY	643,394
Charlottesville, VA	225,127
Crestview-Fort Walton Beach-Destin, FL	304,818
Fairbanks-College, AK	94,840
Florence, SC	199,630
Gadsden, AL	103,241
Gainesville-Lake City, FL	425,189
Grand Junction, CO	159,681
Greenville-Washington, NC	219,600
Johnson City-Kingsport-Bristol, TN-VA	598,800
Mayagüez-Aguadilla, PR	458,312
Middlesborough-Corbin, KY	172,880
Missoula, MT	126,939
Monroe-Ruston, LA	269,847
Montgomery-Selma, AL	421,645
Myrtle Beach-Conway, SC	463,209
North Port-Bradenton, FL	1,152,221
Palm Bay-Melbourne-Titusville, FL	643,979
Panama City-Panama City Beach, FL	216,371
Pocatello, ID	90,400
Prescott Valley-Prescott, AZ	249,081
Roanoke, VA	314,314
Rocky Mount-Wilson-Roanoke Rapids, NC	288,366
Salinas, CA	430,723
San Juan-Bayamón, PR	2,360,082
Santa Rosa-Petaluma, CA	481,812
Tallahassee-Bainbridge, FL-GA	421,732
Tuscaloosa, AL	278,290
Urban Honolulu, HI	989,408
Victoria-Port Lavaca, TX	118,504
Wilmington, NC	467,337

Notes:

1. This list represents cities with no monitored ozone air pollution in unhealthy ranges using the Air Quality Index based on 2015 NAAQS.

Table 4a Cleanest Counties for Short-Term Particle Pollution (Daily PM_{2.5})

County	State	Metropolitan Statistical Area	County	State	Metropolitan Statistical Area
Juneau City and Borough	AK		Essex	NY	
Baldwin	AL	Mobile-Daphne-Fairhope, AL	Suffolk	NY	New York-Newark, NY-NJ-CT-PA
Clay	AL		Bayamón	PR	San Juan-Bayamón, PR
DeKalb	AL	Huntsville-Decatur-Albertville, AL-TN	Caguas	PR	San Juan-Bayamón, PR
Etowah	AL	Gadsden, AL	Fajardo	PR	San Juan-Bayamón, PR
Mobile	AL	Mobile-Daphne-Fairhope, AL	Guaynabo	PR	San Juan-Bayamón, PR
Montgomery	AL	Montgomery-Selma, AL	Ponce	PR	Ponce-Coamo, PR
Sumter	AL		Charleston	SC	Charleston-North Charleston, SC
Tuscaloosa	AL	Tuscaloosa, AL	Edgefield	SC	Augusta-Richmond County, GA-SC
Arkansas	AR		Lawrence	TN	Nashville-Davidson--Murfreesboro, TN
Crittenden	AR	Memphis-Clarksdale-Forrest City, TN-MS-AR	Shelby	TN	Memphis-Clarksdale-Forrest City, TN-MS-AR
Garland	AR	Hot Springs-Malvern, AR	Bell	TX	Killeen-Temple, TX
Jackson	AR		Brazos	TX	College Station-Bryan, TX
Polk	AR		Ector	TX	Midland-Odessa-Andrews, TX
Pulaski	AR	Little Rock-North Little Rock, AR	Carbon	UT	
Washington	AR	Fayetteville-Springdale-Rogers, AR	Norfolk City	VA	Virginia Beach-Chesapeake, VA-NC
Apache	AZ				
Pima	AZ	Tucson-Nogales, AZ			
Marin	CA	San Jose-San Francisco-Oakland, CA			
San Francisco	CA	San Jose-San Francisco-Oakland, CA			
San Luis Obispo	CA	San Luis Obispo-Paso Robles, CA			
Santa Barbara	CA	Santa Maria-Santa Barbara, CA			
Ventura	CA	Los Angeles-Long Beach, CA			
Escambia	FL	Pensacola-Ferry Pass-Brent, FL			
Polk	FL	Orlando-Lakeland-Deltona, FL			
Clayton	GA	Atlanta--Athens-Clarke County--Sandy Springs, GA-AL			
Hawaii	HI				
Lee	IA	Burlington-Fort Madison, IA-IL			
Madison	IL	St. Louis-St. Charles-Farmington, MO-IL			
Peoria	IL	Peoria-Canton, IL			
Caddo Parish	LA	Shreveport-Bossier City-Minden, LA			
Iberville Parish	LA	Baton Rouge-Hammond, LA			
Orleans Parish	LA	New Orleans-Metairie-Slidell, LA-MS			
St. Bernard Parish	LA	New Orleans-Metairie-Slidell, LA-MS			
Tangipahoa Parish	LA	Baton Rouge-Hammond, LA			
Androscoggin	ME	Portland-Lewiston-South Portland, ME			
Hancock	ME				
Kennebec	ME				
Penobscot	ME	Bangor, ME			
Allegan	MI	Grand Rapids-Wyoming, MI			
Manistee	MI				
Cedar	MO				
Hancock	MS	Gulfport-Biloxi, MS			
Harrison	MS	Gulfport-Biloxi, MS			
Jackson	MS	Gulfport-Biloxi, MS			
Buncombe	NC	Asheville-Waynesville-Brevard, NC			

Notes:

Monitors in these counties reported no days when PM_{2.5} levels reached the unhealthful range using the Air Quality Index based on the 2012 NAAQS.

Table 4b Top 25 Cleanest Counties for Year-Round Particle Pollution (Annual PM_{2.5})

2024 Rank	County	State	Design Value	Metropolitan Statistical Area
1	Fremont	WY	2.1	
2	Cook	MN	2.7	
3	La Paz	AZ	3.4	
4	Hughes	SD	3.6	
5	Honolulu	HI	3.7	Urban Honolulu, HI
5	Hancock	ME	3.7	
5	Carlton	MN	3.7	Duluth-Grand Rapids, MN-WI
5	Natrona	WY	3.7	Casper, WY
5	Sublette	WY	3.7	
10	Hillsborough	NH	3.9	Boston-Worcester-Providence, MA-RI-NH
11	Maui	HI	4.0	Kahului-Wailuku, HI
11	Essex	NY	4.0	
11	Teton	WY	4.0	
14	Gallatin	MT	4.1	Bozeman, MT
15	Matanuska-Susitna Borough	AK	4.3	Anchorage, AK
16	Hawaii	HI	4.4	
17	Park	WY	4.5	
18	Juneau City and Borough	AK	4.6	
18	Scotts Bluff	NE	4.6	
18	Custer	SD	4.6	Rapid City-Spearfish, SD
21	Penobscot	ME	4.8	Bangor, ME
21	Belknap	NH	4.8	Boston-Worcester-Providence, MA-RI-NH
23	Lake	CA	4.9	
23	San Benito	CA	4.9	San Jose-San Francisco-Oakland, CA
23	Litchfield	CT	4.9	New Haven-Hartford-Waterbury, CT
23	Lake	MN	4.9	
23	Taos	NM	4.9	
23	Kent	RI	4.9	Boston-Worcester-Providence, MA-RI-NH

Notes:

Counties are ranked by Design Value.

Table 4c Cleanest Counties for Ozone Air Pollution

County	State	Metropolitan Statistical Area
Denali Borough	AK	
Fairbanks North Star Borough	AK	Fairbanks-College, AK
Baldwin	AL	Mobile-Daphne-Fairhope, AL
Elmore	AL	Montgomery-Selma, AL
Etowah	AL	Gadsden, AL
Montgomery	AL	Montgomery-Selma, AL
Russell	AL	Columbus-Auburn-Opelika, GA-AL
Sumter	AL	
Tuscaloosa	AL	Tuscaloosa, AL
Clark	AR	
Yavapai	AZ	Prescott Valley-Prescott, AZ
Colusa	CA	
Glenn	CA	
Humboldt	CA	
Lake	CA	
Marin	CA	San Jose-San Francisco-Oakland, CA
Mendocino	CA	
Monterey	CA	Salinas, CA
San Benito	CA	San Jose-San Francisco-Oakland, CA
San Francisco	CA	San Jose-San Francisco-Oakland, CA
San Mateo	CA	San Jose-San Francisco-Oakland, CA
Santa Cruz	CA	San Jose-San Francisco-Oakland, CA
Siskiyou	CA	
Sonoma	CA	Santa Rosa-Petaluma, CA
Archuleta	CO	
Mesa	CO	Grand Junction, CO
Alachua	FL	Gainesville-Lake City, FL
Baker	FL	Jacksonville-Kingsland-Palatka, FL-GA
Bay	FL	Panama City-Panama City Beach, FL
Brevard	FL	Palm Bay-Melbourne-Titusville, FL
Broward	FL	Miami-Port St. Lucie-Fort Lauderdale, FL
Collier	FL	Cape Coral-Fort Myers-Naples, FL
Columbia	FL	Gainesville-Lake City, FL
Flagler	FL	Orlando-Lakeland-Deltona, FL
Holmes	FL	
Indian River	FL	Miami-Port St. Lucie-Fort Lauderdale, FL
Lake	FL	Orlando-Lakeland-Deltona, FL
Leon	FL	Tallahassee-Bainbridge, FL-GA
Liberty	FL	
Manatee	FL	North Port-Bradenton, FL
Martin	FL	Miami-Port St. Lucie-Fort Lauderdale, FL
Okaloosa	FL	Crestview-Fort Walton Beach-Destin, FL
Osceola	FL	Orlando-Lakeland-Deltona, FL
Palm Beach	FL	Miami-Port St. Lucie-Fort Lauderdale, FL
Pasco	FL	Tampa-St. Petersburg-Clearwater, FL

County	State	Metropolitan Statistical Area
Santa Rosa	FL	Pensacola-Ferry Pass-Brent, FL
Sarasota	FL	North Port-Bradenton, FL
Seminole	FL	Orlando-Lakeland-Deltona, FL
St. Lucie	FL	Miami-Port St. Lucie-Fort Lauderdale, FL
Volusia	FL	Orlando-Lakeland-Deltona, FL
Wakulla	FL	Tallahassee-Bainbridge, FL-GA
Chattooga	GA	Chattanooga-Cleveland-Dalton, TN-GA-AL
Columbia	GA	Augusta-Richmond County, GA-SC
Glynn	GA	Brunswick-St. Simons, GA
Richmond	GA	Augusta-Richmond County, GA-SC
Sumter	GA	
Honolulu	HI	Urban Honolulu, HI
Bannock	ID	Pocatello, ID
Neosho	KS	
Bell	KY	Middlesborough-Corbin, KY
Boyd	KY	Charleston-Huntington-Ashland, WV-OH-KY
Carter	KY	Charleston-Huntington-Ashland, WV-OH-KY
Greenup	KY	Charleston-Huntington-Ashland, WV-OH-KY
Morgan	KY	
Perry	KY	
Pike	KY	
Pulaski	KY	
Bossier Parish	LA	Shreveport-Bossier City-Minden, LA
Ouachita Parish	LA	Monroe-Ruston, LA
Garrett	MD	
Androscoggin	ME	Portland-Lewiston-South Portland, ME
Aroostook	ME	
Kennebec	ME	
Oxford	ME	
Penobscot	ME	Bangor, ME
Washington	ME	
Carlton	MN	Duluth-Grand Rapids, MN-WI
Lake	MN	
Lauderdale	MS	
Flathead	MT	
Missoula	MT	Missoula, MT
Avery	NC	
Buncombe	NC	Asheville-Waynesville-Brevard, NC
Caldwell	NC	Charlotte-Concord, NC-SC
Caswell	NC	
Durham	NC	Raleigh-Durham-Cary, NC
Edgecombe	NC	Rocky Mount-Wilson-Roanoke Rapids, NC
Macon	NC	
Martin	NC	
Montgomery	NC	
New Hanover	NC	Wilmington, NC

Note:

This list represents counties with no monitored ozone air pollution in unhealthy ranges using the Air Quality Index based on 2015 NAAQS.

Table 4c Cleanest Counties for Ozone Air Pollution (cont.)

County	State	Metropolitan Statistical Area
Pitt	NC	Greenville-Washington, NC
Yancey	NC	
Belknap	NH	Boston-Worcester-Providence, MA-RI-NH
Grafton	NH	
Atlantic	NJ	Philadelphia-Reading-Camden, PA-NJ-DE-MD
Warren	NJ	Allentown-Bethlehem-East Stroudsburg, PA-NJ
Hamilton	NY	
Lawrence	OH	Charleston-Huntington-Ashland, WV-OH-KY
Washington	OH	Parkersburg-Marietta-Vienna, WV-OH
Washington	OR	Portland-Vancouver-Salem, OR-WA
Somerset	PA	Johnstown-Somerset, PA
Tioga	PA	
Bayamón	PR	San Juan-Bayamón, PR
Mayagüez	PR	Mayagüez-Aguadilla, PR
Aiken	SC	Augusta-Richmond County, GA-SC
Anderson	SC	Greenville-Spartanburg-Anderson, SC
Charleston	SC	Charleston-North Charleston, SC
Chesterfield	SC	
Darlington	SC	Florence, SC
Edgefield	SC	Augusta-Richmond County, GA-SC
Horry	SC	Myrtle Beach-Conway, SC
DeKalb	TN	
Knox	TN	Knoxville-Morristown-Sevierville, TN
Loudon	TN	Knoxville-Morristown-Sevierville, TN
Sullivan	TN	Johnson City-Kingsport-Bristol, TN-VA
Polk	TX	
Rockwall	TX	Dallas-Fort Worth, TX-OK
Victoria	TX	Victoria-Port Lavaca, TX
Albemarle	VA	Charlottesville, VA
Charles City	VA	Richmond, VA
Hampton City	VA	Virginia Beach-Chesapeake, VA-NC
Prince Edward	VA	
Roanoke	VA	Roanoke, VA
Rockbridge	VA	
Wythe	VA	
Rutland	VT	
Clallam	WA	
Columbia	WA	
Pierce	WA	Seattle-Tacoma, WA
Skagit	WA	Seattle-Tacoma, WA
Whatcom	WA	Bellingham, WA
Cabell	WV	Charleston-Huntington-Ashland, WV-OH-KY
Greenbrier	WV	
Kanawha	WV	Charleston-Huntington-Ashland, WV-OH-KY
Tucker	WV	
Weston	WY	

Note:

This list represents counties with no monitored ozone air pollution in unhealthy ranges using the Air Quality Index based on 2015 NAAQS.

ALABAMA

American Lung Association in Alabama

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Baldwin	0	0	0	0.0	A
Clay	DNC	DNC	DNC	DNC	DNC
DeKalb	2	0	0	0.7	B
Elmore	0	0	0	0.0	A
Etowah	0	0	0	0.0	A
Jefferson	15	0	0	5.0	F
Madison	4	0	0	1.3	C
Mobile	1	0	0	0.3	B
Montgomery	0	0	0	0.0	A
Morgan	2	0	0	0.7	B
Russell	0	0	0	0.0	A
Shelby	2	0	0	0.7	B
Sumter	0	0	0	0.0	A
Tuscaloosa	0	0	0	0.0	A

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
0	0	0	0	0.0	A	7.4	Pass
0	0	0	0	0.0	A	7.3	Pass
0	0	0	0	0.0	A	7.8	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0	0.0	A	INC	INC
2	0	0	0	0.7	B	9.6	Fail
1	0	0	0	0.3	B	7.7	Pass
0	0	0	0	0.0	A	8.1	Pass
0	0	0	0	0.0	A	8.6	Pass
1	0	0	0	0.3	B	7.8	Pass
3	0	0	0	1.0	C	9.5	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0	0.0	A	6.2	Pass
0	0	0	0	0.0	A	7.8	Pass

ALABAMA

American Lung Association in Alabama

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Baldwin	253,507	53,110	55,923	4,547	17,840	19,436	145	27,152	2,512	24,942	44,952
Clay	14,111	2,954	3,084	253	995	1,088	8	1,517	138	2,337	2,818
DeKalb	72,569	17,272	13,132	1,479	4,911	5,075	42	6,935	744	15,494	16,441
Elmore	90,441	19,431	15,445	1,664	6,291	6,301	52	8,510	1,038	10,562	25,360
Etowah	103,241	22,589	20,695	1,934	7,162	7,554	59	10,433	1,087	19,921	24,165
Jefferson	662,895	151,180	114,194	12,944	45,093	44,486	376	60,275	7,914	103,120	344,111
Madison	412,600	88,468	66,539	7,575	28,627	27,931	236	37,431	4,759	41,983	154,711
Mobile	411,640	95,366	73,219	8,165	27,932	28,064	234	38,218	4,704	65,684	184,204
Montgomery	224,980	54,247	37,666	4,645	15,047	14,810	127	20,036	2,661	39,395	158,506
Morgan	125,133	29,034	23,040	2,486	8,530	8,821	72	12,070	1,275	14,759	34,132
Russell	58,744	14,401	9,408	1,233	3,923	3,885	33	5,230	674	10,957	32,660
Shelby	233,000	52,318	40,691	4,480	16,031	16,294	133	22,111	2,610	19,207	61,029
Sumter	11,727	2,293	2,408	196	825	818	7	1,130	148	3,607	8,618
Tuscaloosa	237,373	48,286	34,292	4,134	16,491	14,799	135	19,472	3,275	41,429	97,183

ALASKA

American Lung Association in Alaska

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Anchorage Municipality	DNC	DNC	DNC	DNC	DNC
Denali Borough	0	0	0	0.0	A
Fairbanks North Star Borough	0	0	0	0.0	A
Juneau City and Borough	DNC	DNC	DNC	DNC	DNC
Matanuska-Susitna Borough	DNC	DNC	DNC	DNC	DNC

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
3	0	0	0	1.0	C	5.1	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
51	39	2	1	38.7	F	12.1	Fail
0	0	0	0	0.0	A	4.6	Pass
3	1	0	0	1.5	C	4.3	Pass

ALASKA

American Lung Association in Alaska

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Anchorage Municipality	286,075	66,690	38,032	4,632	24,072	12,385	149	15,882	3,771	24,807	128,186
Denali Borough	1,584	293	213	20	142	76	1	100	19	123	407
Fairbanks North Star Borough	94,840	22,535	12,395	1,565	7,941	3,951	49	4,980	1,202	7,015	30,209
Juneau City and Borough	31,555	6,288	5,356	437	2,762	1,553	16	2,075	395	2,815	11,610
Matanuska-Susitna Borough	115,239	29,114	16,390	2,022	9,433	5,087	60	6,672	1,362	10,906	26,141

ARIZONA

American Lung Association in Arizona

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Apache	DNC	DNC	DNC	DNC	DNC
Cochise	4	0	0	1.3	C
Coconino	2	0	0	0.7	B
Gila	31	2	0	11.3	F
La Paz	2	0	0	0.7	B
Maricopa	149	9	1	54.8	F
Navajo	1	0	0	0.3	B
Pima	13	0	0	4.3	F
Pinal	56	1	0	19.2	F
Santa Cruz	DNC	DNC	DNC	DNC	DNC
Yavapai	0	0	0	0.0	A
Yuma	8	0	0	2.7	D

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
0	0	0	0	0.0	A	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	3.4	Pass
8	6	1	0	6.3	F	10.1	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0	0.0	A	6.2	Pass
14	1	0	0	5.2	F	10.4	Fail
3	1	0	0	1.5	C	9.4	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
5	2	0	0	2.7	D	8.5	Pass

ARIZONA

American Lung Association in Arizona

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Apache	65,036	16,671	11,219	1,344	4,976	2,711	25	3,798	632	18,929	52,439
Cochise	124,640	25,421	31,957	2,049	10,149	6,423	47	9,081	1,073	19,759	55,187
Coconino	144,472	27,607	21,678	2,226	12,139	5,635	55	7,780	1,891	23,888	67,256
Gila	54,003	10,035	17,047	809	4,467	3,183	20	4,532	407	9,431	20,312
La Paz	16,710	2,554	7,281	206	1,429	1,182	6	1,693	107	3,097	6,923
Maricopa	4,585,871	1,013,496	762,598	81,703	368,476	191,419	1,738	267,191	50,097	498,844	2,145,576
Navajo	109,175	27,120	22,446	2,186	8,414	4,958	41	6,983	988	26,533	61,677
Pima	1,063,162	205,102	234,094	16,534	88,255	50,455	403	70,848	11,131	144,676	516,317
Pinal	484,239	103,957	103,957	8,381	39,076	22,559	184	31,708	4,513	54,702	216,113
Santa Cruz	49,158	12,346	9,762	995	3,781	2,173	19	3,055	484	9,831	41,385
Yavapai	249,081	37,931	86,556	3,058	21,401	15,827	94	22,584	1,780	31,465	52,930
Yuma	213,221	52,032	44,803	4,195	16,613	9,363	81	13,124	1,994	32,657	150,663

ARKANSAS

American Lung Association in Arkansas

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Arkansas	DNC	DNC	DNC	DNC	DNC
Ashley	DNC	DNC	DNC	DNC	DNC
Clark	0	0	0	0.0	A
Crittenden	12	1	0	4.5	F
Garland	DNC	DNC	DNC	DNC	DNC
Jackson	DNC	DNC	DNC	DNC	DNC
Newton	1	0	0	0.3	B
Polk	2	0	0	0.7	B
Pulaski	6	0	0	2.0	C
Union	DNC	DNC	DNC	DNC	DNC
Washington	8	0	0	2.7	D

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
0	0	0	0	0.0	A	8.0	Pass
1	0	0	0	0.3	B	8.1	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0	0.0	A	8.2	Pass
0	0	0	0	0.0	A	INC	INC
0	0	0	0	0.0	A	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0	0.0	A	8.3	Pass
0	0	0	0	0.0	A	10.0	Fail
1	0	0	0	0.3	B	9.3	Fail
0	0	0	0	0.0	A	7.7	Pass

ARKANSAS

American Lung Association in Arkansas

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Arkansas	16,307	3,758	3,342	261	1,248	1,194	11	1,624	171	2,697	5,272
Ashley	18,262	4,157	4,035	289	1,398	1,375	12	1,891	181	3,338	5,905
Clark	21,274	4,309	3,579	299	1,683	1,389	14	1,780	291	3,512	6,782
Crittenden	47,139	12,725	7,303	884	3,444	3,009	31	3,939	555	9,578	29,052
Garland	99,784	19,595	25,335	1,361	7,889	7,961	65	11,077	984	18,604	19,905
Jackson	16,784	3,318	3,071	230	1,340	1,178	11	1,549	192	3,513	4,136
Newton	7,071	1,313	1,970	91	565	592	5	836	61	1,313	484
Polk	19,436	4,295	4,578	298	1,495	1,493	13	2,067	184	3,619	2,586
Pulaski	400,009	92,612	68,573	6,432	30,633	26,789	261	35,145	4,846	61,392	204,294
Union	37,397	8,976	7,472	623	2,821	2,653	24	3,587	388	6,969	15,026
Washington	261,549	60,562	32,950	4,206	20,133	15,598	171	19,313	3,489	34,017	83,294

CALIFORNIA

American Lung Association in California

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Alameda	15	1	0	5.5	F
Amador	5	0	0	1.7	C
Butte	9	0	0	3.0	D
Calaveras	6	0	0	2.0	C
Colusa	0	0	0	0.0	A
Contra Costa	6	0	0	2.0	C
El Dorado	37	2	0	13.3	F
Fresno	121	13	0	46.8	F
Glenn	0	0	0	0.0	A
Humboldt	0	0	0	0.0	A
Imperial	52	4	0	19.3	F
Inyo	14	0	0	4.7	F
Kern	172	31	0	72.8	F
Kings	46	2	0	16.3	F
Lake	0	0	0	0.0	A
Los Angeles	169	79	4	98.5	F
Madera	41	4	0	15.7	F
Marin	0	0	0	0.0	A
Mariposa	26	3	0	10.2	F
Mendocino	0	0	0	0.0	A
Merced	42	1	0	14.5	F
Mono	DNC	DNC	DNC	DNC	DNC
Monterey	0	0	0	0.0	A
Napa	INC	INC	INC	INC	INC
Nevada	47	6	0	18.7	F
Orange	21	3	0	8.5	F
Placer	60	5	0	22.5	F
Plumas	DNC	DNC	DNC	DNC	DNC
Riverside	205	84	5	113.7	F
Sacramento	46	3	0	16.8	F
San Benito	0	0	0	0.0	A
San Bernardino	190	150	23	153.7	F
San Diego	81	1	0	27.5	F
San Francisco	0	0	0	0.0	A
San Joaquin	3	0	1	1.7	C
San Luis Obispo	13	0	0	4.3	F
San Mateo	0	0	0	0.0	A
Santa Barbara	1	0	0	0.3	B
Santa Clara	13	0	0	4.3	F

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
6	0	0	0	2.0	C	8.9	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
8	7	0	0	6.2	F	8.9	Pass
4	3	0	0	2.8	D	6.7	Pass
10	6	1	0	7.0	F	8.9	Pass
5	0	0	0	1.7	C	9.6	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
71	9	1	0	28.8	F	14.8	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
6	1	4	0	5.2	F	6.9	Pass
17	3	0	0	7.2	F	10.2	Fail
28	13	3	1	18.7	F	7.4	Pass
104	18	1	0	44.3	F	16.2	Fail
66	9	0	0	26.5	F	14.1	Fail
0	1	0	0	0.5	B	4.9	Pass
22	5	0	0	9.8	F	12.2	Fail
17	4	0	0	7.7	F	10.9	Fail
0	0	0	0	0.0	A	6.4	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
12	2	0	0	5.0	F	11.0	Fail
19	2	0	0	7.3	F	10.4	Fail
11	11	0	0	9.2	F	8.0	Pass
1	0	0	0	0.3	B	5.9	Pass
INC	INC	INC	INC	INC	INC	INC	INC
6	15	4	0	12.2	F	6.5	Pass
11	0	0	0	3.7	F	10.2	Fail
7	10	5	0	10.7	F	8.9	Pass
30	12	2	0	17.3	F	14.0	Fail
24	12	0	0	14.0	F	12.6	Fail
19	5	1	1	10.3	F	9.9	Fail
1	0	0	0	0.3	B	4.9	Pass
14	7	0	0	8.2	F	13.1	Fail
1	0	0	0	0.3	B	9.2	Fail
0	0	0	0	0.0	A	INC	INC
26	1	0	0	9.2	F	11.2	Fail
0	0	0	0	0.0	A	8.0	Pass
1	0	0	0	0.3	B	7.0	Pass
0	0	0	0	0.0	A	7.5	Pass
4	0	0	0	1.3	C	9.1	Fail

CALIFORNIA (cont.)

American Lung Association in California

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Santa Cruz	0	0	0	0.0	A
Shasta	15	0	0	5.0	F
Siskiyou	0	0	0	0.0	A
Solano	3	0	0	1.0	C
Sonoma	0	0	0	0.0	A
Stanislaus	57	3	0	20.5	F
Sutter	17	1	0	6.2	F
Tehama	29	0	0	9.7	F
Tulare	209	38	0	88.7	F
Tuolumne	5	0	0	1.7	C
Ventura	32	0	0	10.7	F
Yolo	6	0	0	2.0	C

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
1	0	0	0	0.3	B	5.4	Pass
5	3	0	0	3.2	D	INC	INC
15	31	6	2	26.2	F	11.7	Fail
1	0	0	0	0.3	B	7.3	Pass
2	0	0	0	0.7	B	6.2	Pass
30	4	0	0	12.0	F	13.0	Fail
9	5	0	0	5.5	F	11.2	Fail
10	15	0	0	10.8	F	7.5	Pass
64	26	2	1	36.5	F	15.7	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0	0.0	A	7.5	Pass
1	0	0	0	0.3	B	8.2	Pass

CALIFORNIA

American Lung Association in California

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Alameda	1,622,188	315,933	261,127	20,038	114,690	54,586	554	92,845	17,467	151,872	1,169,893
Amador	41,811	6,512	11,749	413	3,139	1,823	14	3,219	271	4,400	10,582
Butte	207,172	42,199	38,881	2,676	14,503	7,075	71	12,053	2,167	40,532	69,617
Calaveras	46,565	8,156	13,834	517	3,425	2,062	16	3,663	334	5,639	10,667
Colusa	22,037	5,915	3,519	375	1,417	689	8	1,177	207	2,677	15,235
Contra Costa	1,155,025	250,439	204,829	15,884	79,697	40,145	394	69,177	11,214	95,369	708,220
El Dorado	192,215	37,109	46,788	2,354	13,764	7,746	66	13,622	1,566	13,438	49,095
Fresno	1,017,162	280,038	134,321	17,761	64,544	29,306	348	49,247	10,334	177,171	748,856
Glenn	28,129	7,470	4,853	474	1,819	908	10	1,559	254	3,769	14,758
Humboldt	133,985	24,839	27,304	1,575	9,615	4,851	46	8,330	1,398	21,856	38,892
Imperial	179,057	50,348	25,158	3,193	11,282	5,219	61	8,804	1,651	29,810	163,029
Inyo	18,527	3,668	4,751	233	1,319	747	6	1,312	149	2,169	7,602
Kern	913,820	259,728	111,264	16,473	57,210	25,454	313	42,581	9,148	169,857	639,578
Kings	152,682	40,721	17,031	2,583	9,770	4,163	53	6,884	1,409	23,950	109,842
Lake	67,878	14,900	16,670	945	4,702	2,653	23	4,660	538	11,790	23,796
Los Angeles	9,663,345	1,952,770	1,520,769	123,854	676,891	321,289	3,302	546,261	102,191	1,299,957	7,221,232
Madera	162,858	43,914	23,846	2,785	10,435	4,905	56	8,309	1,723	28,046	113,482
Marin	254,407	48,217	62,745	3,058	18,319	10,472	87	18,488	1,972	21,535	83,352
Mariposa	16,919	3,036	5,243	193	1,239	753	6	1,338	122	2,899	4,129
Mendocino	89,108	18,532	22,654	1,175	6,266	3,552	30	6,241	739	12,295	33,870
Merced	291,920	82,900	34,885	5,258	18,274	8,064	100	13,461	2,981	53,192	223,791
Mono	13,066	2,257	2,520	143	952	481	4	829	123	1,013	4,555
Monterey	430,723	109,668	66,686	6,956	28,193	13,461	147	22,887	4,142	58,136	313,544
Napa	133,216	25,378	29,031	1,610	9,534	5,076	46	8,831	1,206	11,581	67,693
Nevada	102,037	17,159	30,744	1,088	7,567	4,544	35	8,064	783	10,990	17,386
Orange	3,135,755	645,880	529,921	40,965	219,019	107,518	1,072	184,240	31,411	284,696	1,962,915
Placer	423,561	91,096	88,767	5,778	29,391	15,629	145	27,189	3,820	27,088	139,188
Plumas	19,131	3,233	6,306	205	1,421	887	7	1,584	137	2,418	3,459
Riverside	2,492,442	593,261	392,274	37,628	166,819	79,992	853	136,219	24,848	278,442	1,719,040
Sacramento	1,584,288	357,753	250,123	22,690	107,691	51,284	541	87,181	16,417	185,867	936,276
San Benito	68,175	17,040	9,503	1,081	4,484	2,090	23	3,540	675	6,204	48,484
San Bernardino	2,195,611	553,808	283,489	35,125	143,727	64,943	751	109,152	22,803	284,772	1,656,876
San Diego	3,269,973	675,125	520,284	42,820	227,652	107,004	1,119	181,254	34,028	319,714	1,859,156
San Francisco	808,988	110,389	149,189	7,001	61,356	29,395	277	49,982	8,980	95,298	505,899
San Joaquin	800,965	207,474	110,407	13,159	52,028	24,103	274	40,743	8,082	99,266	587,263
San Luis Obispo	281,639	48,467	64,370	3,074	20,582	10,717	96	18,502	2,703	34,227	95,701
San Mateo	726,353	139,218	135,673	8,830	51,727	26,063	248	44,880	7,100	52,747	468,135
Santa Barbara	441,257	98,119	75,338	6,223	30,126	14,357	151	24,344	4,585	62,891	258,914
Santa Clara	1,877,592	374,375	289,344	23,745	131,880	61,922	643	105,005	19,418	139,084	1,359,960

CALIFORNIA (CONT.)

American Lung Association in California

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Santa Cruz	261,547	47,101	51,848	2,987	18,889	9,494	89	16,308	2,684	31,840	117,201
Shasta	180,366	38,814	39,483	2,462	12,516	6,683	62	11,618	1,607	23,527	42,035
Siskiyou	42,905	8,468	12,308	537	3,067	1,820	15	3,222	319	7,273	11,133
Solano	449,218	97,528	80,908	6,186	30,961	15,423	154	26,470	4,292	45,402	299,076
Sonoma	481,812	90,254	107,472	5,724	34,625	18,507	165	32,207	4,431	43,143	196,911
Stanislaus	551,430	145,831	77,777	9,249	35,568	16,576	189	28,045	5,506	68,761	351,831
Sutter	97,948	24,291	16,478	1,541	6,479	3,186	33	5,451	940	14,849	57,146
Tehama	64,896	15,610	13,299	990	4,357	2,314	22	4,024	551	9,633	23,930
Tulare	479,468	140,917	58,469	8,938	29,621	13,260	164	22,217	4,853	83,050	355,437
Tuolumne	54,204	9,352	15,553	593	3,989	2,324	19	4,099	399	5,390	11,882
Ventura	829,590	178,129	150,029	11,298	57,389	28,871	284	49,699	7,921	80,427	476,803
Yolo	220,544	43,139	30,613	2,736	15,494	6,717	75	11,132	2,779	31,960	125,905

COLORADO

American Lung Association in Colorado

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Adams	38	0	0	12.7	F
Alamosa	DNC	DNC	DNC	DNC	DNC
Arapahoe	54	3	0	19.5	F
Archuleta	0	0	0	0.0	A
Boulder	41	2	0	14.7	F
Chaffee	11	0	0	3.7	F
Clear Creek	34	2	0	12.3	F
Delta	INC	INC	INC	INC	INC
Denver	38	2	0	13.7	F
Douglas	65	7	0	25.2	F
El Paso	30	0	0	10.0	F
Garfield	12	0	0	4.0	F
Gilpin	26	1	0	9.2	F
Grand	1	0	0	0.3	B
Gunnison	3	0	0	1.0	C
Jackson	INC	INC	INC	INC	INC
Jefferson	92	12	0	36.7	F
La Plata	4	0	0	1.3	C
Larimer	55	5	0	20.8	F
Mesa	0	0	0	0.0	A
Montezuma	2	0	0	0.7	B
Park	19	1	0	6.8	F
Prowers	DNC	DNC	DNC	DNC	DNC
Pueblo	INC	INC	INC	INC	INC
Rio Blanco	8	1	0	3.2	D
San Miguel	1	0	0	0.3	B
Weld	49	1	0	16.8	F

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
3	3	0	0	2.5	D	8.5	Pass
INC	INC	INC	INC	INC	INC	INC	INC
1	0	0	0	0.3	B	5.9	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
10	2	0	0	4.3	F	7.3	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
INC	INC	INC	INC	INC	INC	INC	INC
8	4	0	0	4.7	F	8.7	Pass
4	2	0	0	2.3	D	5.5	Pass
2	1	0	0	1.2	C	5.3	Pass
INC	INC	INC	INC	INC	INC	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
INC	INC	INC	INC	INC	INC	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	0	0	0	1.0	C	7.1	Pass
3	0	0	0	1.0	C	5.3	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
INC	INC	INC	INC	INC	INC	INC	INC
1	0	0	0	0.3	B	INC	INC
3	1	0	0	1.5	C	7.2	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
8	1	0	0	3.2	D	8.1	Pass

COLORADO

American Lung Association in Colorado

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Adams	533,365	129,601	61,708	9,001	46,373	16,768	183	23,155	5,802	51,247	289,604
Alamosa	16,655	3,983	2,583	277	1,452	567	6	793	181	3,416	9,062
Arapahoe	656,061	145,860	97,962	10,130	58,188	23,070	224	32,527	6,857	65,646	287,559
Archuleta	14,189	2,363	4,130	164	1,310	711	5	1,061	103	1,577	3,116
Boulder	326,831	55,707	55,764	3,869	30,918	12,462	112	17,599	3,548	34,478	77,878
Chaffee	20,617	3,008	5,401	209	1,973	975	7	1,431	162	1,829	3,203
Clear Creek	9,147	1,209	2,234	84	887	433	3	636	76	704	1,225
Delta	31,746	5,974	9,087	415	2,864	1,535	11	2,281	238	4,071	5,766
Denver	716,577	126,866	91,876	8,811	68,121	23,789	245	32,374	9,028	73,632	319,343
Douglas	383,906	87,740	55,644	6,093	33,580	13,727	131	19,581	3,748	14,173	83,231
El Paso	744,215	169,937	107,504	11,802	65,747	25,314	255	35,375	7,658	53,047	247,868
Garfield	62,707	15,110	9,523	1,049	5,410	2,209	21	3,139	596	5,606	22,824
Gilpin	5,926	765	1,271	53	575	276	2	408	52	425	891
Grand	15,935	2,431	3,473	169	1,519	700	5	1,018	140	1,311	2,299
Gunnison	17,321	2,697	2,633	187	1,676	635	6	885	188	1,741	2,462
Jackson	1,309	237	359	16	119	63	0	95	9	174	205
Jefferson	576,366	103,852	105,941	7,212	53,623	22,710	197	32,437	5,820	42,071	135,494
La Plata	56,407	9,598	12,270	667	5,275	2,418	19	3,505	539	6,305	12,113
Larimer	370,771	66,613	65,986	4,626	34,727	14,077	127	19,851	4,094	36,698	72,996
Mesa	159,681	32,013	34,642	2,223	14,405	6,621	55	9,586	1,488	18,546	32,051
Montezuma	26,531	5,499	6,665	382	2,351	1,185	9	1,744	215	3,664	7,454
Park	18,117	2,607	4,488	181	1,724	871	6	1,291	135	1,457	2,373
Prowers	11,751	3,007	2,226	209	989	442	4	637	104	2,286	5,252
Pueblo	169,422	36,514	33,884	2,536	15,012	6,747	58	9,741	1,568	22,336	81,610
Rio Blanco	6,569	1,527	1,282	106	569	256	2	370	58	688	1,082
San Miguel	7,868	1,226	1,484	85	748	331	3	479	73	618	1,269
Weld	359,442	90,702	47,427	6,299	30,758	11,713	123	16,359	3,716	32,284	133,581

CONNECTICUT

American Lung Association in Connecticut

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Fairfield	44	11	0	20.2	F
Hartford	9	0	0	3.0	D
Litchfield	8	0	0	2.7	D
Middlesex	20	1	0	7.2	F
New Haven	26	1	0	9.2	F
New London	15	0	0	5.0	F
Tolland	5	1	0	2.2	D
Windham	3	0	0	1.0	C

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
3	3	1	0	3.2	D	7.4	Pass
4	3	0	0	2.8	D	7.0	Pass
3	4	0	0	3.0	D	4.9	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
5	2	1	0	3.3	F	7.4	Pass
3	3	0	0	2.5	D	6.3	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC

CONNECTICUT

American Lung Association in Connecticut

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Fairfield	959,768	195,188	158,603	15,463	81,758	35,190	537	56,117	9,064	85,452	386,212
Hartford	896,854	71,422	158,512	5,658	77,334	33,422	502	53,235	8,649	92,542	371,285
Litchfield	185,000	28,968	42,169	2,295	16,300	8,046	104	13,154	1,494	15,713	25,753
Middlesex	164,759	91,898	35,695	7,280	14,744	6,991	92	11,344	1,462	10,537	29,067
New Haven	863,700	17,576	156,201	1,392	75,199	32,671	483	52,088	8,557	100,433	345,820
New London	268,805	20,138	51,843	1,595	23,561	10,518	150	16,857	2,420	23,102	69,656
Tolland	150,293	110,222	25,398	8,732	13,667	5,537	84	8,685	1,598	15,039	26,007
Windham	116,418	53,152	20,814	4,211	10,221	4,456	65	7,117	1,097	13,043	21,471

DELAWARE

American Lung Association in Delaware

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Kent	5	0	0	1.7	C
New Castle	6	0	0	2.0	C
Sussex	2	0	0	0.7	B

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
3	2	1	0	2.7	D	INC	INC
4	1	2	0	3.2	D	7.5	Pass
2	2	1	0	2.3	D	INC	INC

DELAWARE

American Lung Association in Delaware

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Kent	189,789	42,989	35,338	2,986	16,588	9,479	103	12,377	2,043	21,471	82,407
New Castle	578,592	122,260	101,888	8,491	51,927	28,904	315	37,406	6,279	61,487	272,580
Sussex	263,509	46,689	82,092	3,243	22,776	17,525	143	24,189	1,987	26,244	68,739

DISTRICT OF COLUMBIA

American Lung Association in the District of Columbia

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
District of Columbia	15	1	0	5.5	F

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
5	4	0	0	3.7	F	8.9	Pass

DISTRICT OF COLUMBIA

American Lung Association in the District of Columbia

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases			Lung Cancer	CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD					
District of Columbia	678,972	126,592	88,732	12,235	59,581	21,881	293	30,313	7,799	98,811	423,333

FLORIDA

American Lung Association in Florida

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Alachua	0	0	0	0.0	A
Baker	0	0	0	0.0	A
Bay	0	0	0	0.0	A
Brevard	0	0	0	0.0	A
Broward	0	0	0	0.0	A
Collier	0	0	0	0.0	A
Columbia	0	0	0	0.0	A
Duval	1	0	0	0.3	B
Escambia	2	0	0	0.7	B
Flagler	0	0	0	0.0	A
Highlands	1	0	0	0.3	B
Hillsborough	4	0	0	1.3	C
Holmes	0	0	0	0.0	A
Indian River	0	0	0	0.0	A
Lake	0	0	0	0.0	A
Lee	1	0	0	0.3	B
Leon	0	0	0	0.0	A
Liberty	0	0	0	0.0	A
Manatee	0	0	0	0.0	A
Marion	1	0	0	0.3	B
Martin	0	0	0	0.0	A
Miami-Dade	1	1	0	0.8	B
Okaloosa	0	0	0	0.0	A
Orange	1	0	0	0.3	B
Osceola	0	0	0	0.0	A
Palm Beach	0	0	0	0.0	A
Pasco	0	0	0	0.0	A
Pinellas	2	0	0	0.7	B
Polk	1	0	0	0.3	B
St. Lucie	0	0	0	0.0	A
Santa Rosa	0	0	0	0.0	A
Sarasota	0	0	0	0.0	A
Seminole	0	0	0	0.0	A
Volusia	0	0	0	0.0	A
Wakulla	0	0	0	0.0	A

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
1	0	0	0	0.3	B	6.0	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	6.8	Pass
4	0	0	0	1.3	C	8.8	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	7.8	Pass
0	0	0	0	0.0	A	8.7	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	7.4	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
INC	INC	INC	INC	INC	INC	INC	INC
1	0	0	0	0.3	B	7.4	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
INC	INC	INC	INC	INC	INC	INC	INC
1	1	0	0	0.8	B	7.3	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
INC	INC	INC	INC	INC	INC	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	6.3	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	6.9	Pass
0	0	0	0	0.0	A	7.1	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	6.9	Pass
1	0	0	0	0.3	B	6.5	Pass
1	0	0	0	0.3	B	7.4	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC

FLORIDA

American Lung Association in Florida

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Alachua	285,994	50,729	45,118	3,108	19,999	12,755	146	19,578	3,810	49,524	117,957
Baker	28,368	7,073	4,308	433	1,834	1,266	15	1,986	275	3,328	5,785
Bay	190,769	40,382	35,303	2,474	12,934	9,494	98	14,968	1,857	22,023	50,842
Brevard	643,979	115,705	160,285	7,089	45,234	37,187	330	59,000	5,608	65,640	182,935
Broward	1,962,531	403,240	362,776	24,704	134,226	98,466	1,005	155,355	19,882	247,799	1,324,897
Collier	404,310	65,028	138,906	3,984	28,753	27,329	207	43,547	2,915	41,998	151,513
Columbia	73,063	16,043	15,098	983	4,883	3,742	38	5,900	645	11,715	21,075
Duval	1,030,822	229,643	161,965	14,069	68,732	46,700	528	72,890	11,445	146,043	518,317
Escambia	326,928	68,296	59,553	4,184	22,137	15,807	168	24,742	3,357	43,284	120,414
Flagler	131,439	20,919	41,510	1,282	9,428	8,652	67	13,812	1,002	11,598	34,599
Highlands	107,614	17,869	38,978	1,095	7,568	7,377	55	11,739	767	19,796	38,775
Hillsborough	1,535,564	329,560	235,977	20,190	103,675	70,074	787	109,540	17,133	198,734	831,761
Holmes	19,944	4,118	4,095	252	1,359	1,038	10	1,639	161	3,324	2,951
Indian River	169,795	25,228	60,382	1,546	12,252	11,798	87	18,820	1,200	19,049	44,487
Lake	424,462	80,409	113,393	4,926	29,331	24,891	217	39,461	3,732	44,765	150,267
Lee	834,573	142,314	242,429	8,719	58,929	51,559	428	81,859	7,004	99,505	306,723
Leon	296,913	54,405	45,376	3,333	20,641	13,098	152	20,118	4,050	49,251	136,258
Liberty	7,706	1,364	1,363	84	544	379	4	594	57	1,292	2,194
Manatee	441,095	75,946	127,826	4,653	31,138	27,383	226	43,552	3,616	45,410	136,259
Marion	409,959	76,633	118,006	4,695	28,341	24,867	210	39,454	3,446	60,125	139,442
Martin	163,315	25,995	53,457	1,593	11,676	10,854	84	17,305	1,151	20,806	39,244
Miami-Dade	2,686,867	532,595	467,615	32,629	185,663	132,611	1,376	208,939	27,715	372,520	2,313,925
Okaloosa	218,464	49,218	37,044	3,015	14,497	10,139	112	15,848	2,176	21,517	63,592
Orange	1,471,416	310,911	198,456	19,048	99,811	64,014	754	99,565	17,538	177,726	909,255
Osceola	437,784	103,922	59,260	6,367	28,758	18,841	224	29,418	4,899	47,450	314,515
Palm Beach	1,533,801	286,032	389,700	17,524	106,532	88,130	785	139,570	13,788	163,357	739,381
Pasco	632,996	128,089	138,120	7,847	43,281	33,824	324	53,475	6,064	65,506	205,127
Pinellas	961,596	145,573	259,872	8,919	69,791	58,692	492	93,213	8,600	106,728	266,166
Polk	818,330	179,846	158,775	11,018	54,600	40,317	419	63,265	8,366	103,623	404,542
St. Lucie	373,586	73,315	92,491	4,492	25,656	21,117	191	33,449	3,324	38,539	180,917
Santa Rosa	203,162	44,333	34,610	2,716	13,681	9,767	104	15,379	1,931	15,981	40,197
Sarasota	469,013	65,140	177,167	3,991	34,185	33,866	240	54,096	3,216	43,818	87,735
Seminole	484,271	98,743	82,400	6,049	33,136	23,250	248	36,474	5,284	44,094	215,475
Volusia	590,357	102,443	151,689	6,276	41,687	34,481	302	54,638	5,247	68,507	187,757
Wakulla	36,449	7,573	6,301	464	2,489	1,783	19	2,811	327	3,501	8,053

GEORGIA

American Lung Association in Georgia

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Bibb	4	0	0	1.3	C
Chatham	1	0	0	0.3	B
Chattooga	0	0	0	0.0	A
Clarke	2	0	0	0.7	B
Clayton	DNC	DNC	DNC	DNC	DNC
Cobb	1	0	0	0.3	B
Coffee	DNC	DNC	DNC	DNC	DNC
Columbia	0	0	0	0.0	A
Dawson	3	0	0	1.0	C
DeKalb	8	0	0	2.7	D
Dougherty	DNC	DNC	DNC	DNC	DNC
Douglas	9	0	0	3.0	D
Fulton	12	3	0	5.5	F
Glynn	0	0	0	0.0	A
Gwinnett	6	0	0	2.0	C
Hall	DNC	DNC	DNC	DNC	DNC
Henry	10	0	0	3.3	F
Houston	DNC	DNC	DNC	DNC	DNC
Lowndes	DNC	DNC	DNC	DNC	DNC
Murray	4	0	0	1.3	C
Muscogee	2	0	0	0.7	B
Pike	5	0	0	1.7	C
Richmond	0	0	0	0.0	A
Rockdale	4	0	0	1.3	C
Sumter	0	0	0	0.0	A
Walker	DNC	DNC	DNC	DNC	DNC
Washington	DNC	DNC	DNC	DNC	DNC

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
1	1	0	0	0.8	B	9.4	Fail
1	0	0	0	0.3	B	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	0	0	0	1.0	C	8.7	Pass
0	0	0	0	0.0	A	8.9	Pass
2	0	0	0	0.7	B	8.9	Pass
1	0	0	0	0.3	B	7.3	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	0	0	0	1.0	C	8.7	Pass
14	0	0	0	4.7	F	9.0	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	0	0	0	0.7	B	9.7	Fail
1	0	0	0	0.3	B	7.9	Pass
5	0	0	0	1.7	C	INC	INC
3	0	0	0	1.0	C	8.2	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	1	0	0	1.2	C	8.7	Pass
3	0	0	0	1.0	C	8.6	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	2	0	0	2.0	C	10.0	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
7	0	0	0	2.3	D	9.7	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
5	0	0	0	1.7	C	10.0	Fail
6	1	0	0	2.5	D	10.0	Fail

GEORGIA

American Lung Association in Georgia

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Bibb	156,512	38,212	26,499	3,310	11,103	7,467	83	10,445	1,748	33,515	102,345
Chatham	303,655	62,024	52,167	5,372	22,699	14,849	161	20,703	3,596	44,111	162,886
Chattooga	25,222	5,504	4,844	477	1,845	1,313	14	1,852	231	4,958	4,611
Clarke	129,933	21,551	16,791	1,867	10,262	5,501	69	7,432	2,000	28,637	58,323
Clayton	298,300	78,701	33,424	6,817	20,835	12,421	158	16,783	3,650	50,474	275,007
Cobb	776,743	172,922	109,539	14,978	57,050	36,258	413	49,739	9,015	67,115	401,555
Coffee	43,317	10,716	6,393	928	3,073	1,983	23	2,739	433	9,093	19,084
Columbia	165,162	40,674	25,637	3,523	11,717	7,708	88	10,695	1,812	11,211	60,694
Dawson	31,732	6,420	6,401	556	2,366	1,703	17	2,408	314	2,534	4,298
DeKalb	762,992	171,061	108,754	14,817	55,889	34,962	404	48,016	9,360	100,015	544,259
Dougherty	82,645	20,027	14,694	1,735	5,867	4,000	44	5,620	966	21,140	63,844
Douglas	149,160	37,458	18,617	3,245	10,581	6,677	79	9,094	1,730	17,596	103,998
Fulton	1,079,105	222,303	141,433	19,255	81,123	49,036	574	66,709	13,616	136,621	674,918
Glynn	86,172	17,677	20,059	1,531	6,364	4,877	46	6,996	847	13,245	32,083
Gwinnett	983,526	252,540	115,777	21,874	69,318	42,799	524	58,041	11,180	111,168	685,238
Hall	217,267	50,878	36,099	4,407	15,638	10,593	116	14,768	2,253	23,740	90,408
Henry	254,613	63,307	32,259	5,484	18,116	11,499	135	15,677	2,970	26,087	176,387
Houston	171,974	43,682	24,130	3,784	12,107	7,689	91	10,582	1,958	21,823	83,566
Lowndes	120,712	29,648	16,370	2,568	8,597	5,117	64	7,014	1,490	22,576	59,281
Murray	41,035	9,594	6,583	831	2,959	2,004	22	2,784	429	5,870	8,184
Muscogee	201,877	50,137	30,911	4,343	14,282	9,169	107	12,714	2,307	40,634	126,853
Pike	20,461	4,755	3,345	412	1,478	1,020	11	1,418	215	2,248	2,808
Richmond	205,414	46,852	32,308	4,058	14,922	9,503	109	13,178	2,371	43,227	140,711
Rockdale	95,987	22,493	15,433	1,948	6,917	4,733	51	6,576	1,044	12,310	73,950
Sumter	28,890	6,510	5,305	564	2,096	1,426	15	2,006	322	7,187	17,765
Walker	69,489	14,691	13,877	1,273	5,123	3,711	37	5,248	683	10,248	7,437
Washington	19,820	4,212	3,651	365	1,463	1,025	11	1,439	176	3,878	11,5250

HAWAII

American Lung Association in Hawaii

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Hawaii	DNC	DNC	DNC	DNC	DNC
Honolulu	0	0	0	0.0	A
Kauai	DNC	DNC	DNC	DNC	DNC
Maui	DNC	DNC	DNC	DNC	DNC

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
0	0	0	0	0.0	A	4.4	Pass
1	0	0	0	0.3	B	3.7	Pass
INC	INC	INC	INC	INC	INC	INC	INC
0	1	0	0	0.5	B	4.0	Pass

HAWAII

American Lung Association in Hawaii

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Hawaii	207,615	42,623	50,726	2,857	16,268	7,544	78	14,156	2,011	33,847	143,184
Honolulu	989,408	201,494	199,441	13,505	77,456	32,970	371	60,750	10,329	87,196	815,942
Kauai	73,851	15,577	17,034	1,044	5,755	2,615	28	4,890	719	6,851	52,320
Maui	164,183	33,913	35,277	2,273	12,917	5,709	62	10,629	1,646	15,300	114,782

IDAHO

American Lung Association in Idaho

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Ada	17	0	0	5.7	F
Bannock	0	0	0	0.0	A
Benewah	DNC	DNC	DNC	DNC	DNC
Butte	1	0	0	0.3	B
Canyon	DNC	DNC	DNC	DNC	DNC
Franklin	DNC	DNC	DNC	DNC	DNC
Idaho	3	0	0	1.0	C
Lemhi	DNC	DNC	DNC	DNC	DNC
Shoshone	DNC	DNC	DNC	DNC	DNC

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
3	1	0	0	1.5	C	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
15	10	0	0	10.0	F	9.9	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
10	3	0	0	4.8	F	8.9	Pass
8	0	0	0	2.7	D	6.6	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
22	11	0	0	12.8	F	10.2	Fail
15	12	0	0	11.0	F	10.3	Fail

IDAHO

American Lung Association in Idaho

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Ada	524,673	112,818	88,036	7,835	43,445	24,581	219	30,321	6,393	40,703	93,346
Bannock	90,400	22,442	14,099	1,559	7,149	3,917	38	4,822	1,140	10,518	16,391
Benewah	10,369	2,305	2,486	160	859	566	4	743	95	1,341	1,570
Butte	2,758	632	722	44	227	153	1	205	26	402	309
Canyon	257,674	67,745	37,917	4,705	19,993	10,967	107	13,381	3,138	25,683	79,819
Franklin	15,494	4,647	2,290	323	1,144	646	6	795	172	1,084	1,551
Idaho	17,890	3,610	5,285	251	1,527	1,071	7	1,458	142	2,382	1,805
Lemhi	8,441	1,537	2,655	107	739	526	4	722	73	1,090	635
Shoshone	14,026	2,945	3,287	205	1,179	761	6	993	138	2,175	1,376

ILLINOIS

American Lung Association in Illinois

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Adams	12	0	0	4.0	F
Champaign	11	0	0	3.7	F
Clark	6	0	0	2.0	C
Cook	52	6	0	20.3	F
DuPage	15	3	0	6.5	F
Effingham	10	0	0	3.3	F
Hamilton	10	0	0	3.3	F
Jersey	23	0	0	7.7	F
Jo Daviess	8	1	0	3.2	D
Kane	21	3	0	8.5	F
Lake	24	2	0	9.0	F
McHenry	20	3	0	8.2	F
McLean	13	0	0	4.3	F
Macon	16	0	0	5.3	F
Macoupin	12	0	0	4.0	F
Madison	30	1	0	10.5	F
Peoria	21	1	0	7.5	F
Randolph	13	2	0	5.3	F
Rock Island	18	0	0	6.0	F
St. Clair	14	2	0	5.7	F
Sangamon	20	0	0	6.7	F
Will	18	1	0	6.5	F
Winnebago	14	1	0	5.2	F

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	1	1	0	1.5	C	8.2	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
5	1	2	0	3.5	F	11.3	Fail
1	1	2	0	2.2	D	9.7	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	1	0	0	1.5	C	8.4	Pass
2	1	0	0	1.2	C	7.9	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	2	0	0	1.3	C	9.7	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	2	1	0	2.7	D	8.9	Pass
2	2	1	0	2.3	D	9.0	Pass
3	1	1	0	2.2	D	8.8	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0	0.0	A	10.5	Fail
0	0	0	0	0.0	A	INC	INC
1	0	0	0	0.3	B	7.7	Pass
2	3	1	0	2.8	D	9.1	Fail
0	1	0	0	0.5	B	10.1	Fail
2	1	1	0	1.8	C	8.9	Pass
2	2	2	0	3.0	D	9.8	Fail
4	1	2	0	3.2	D	9.0	Pass

ILLINOIS

American Lung Association in Illinois

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Adams	64,441	14,469	13,635	920	4,671	3,367	37	4,358	563	7,631	6,137
Champaign	205,644	39,095	29,852	2,487	16,280	8,991	117	10,849	2,510	30,821	74,617
Clark	15,088	3,317	3,117	211	1,099	803	9	1,034	126	1,769	701
Cook	5,087,072	1,055,492	843,021	67,132	385,934	246,446	2,878	305,759	53,889	662,898	3,019,519
DuPage	921,213	201,578	166,141	12,821	68,137	46,391	522	58,474	8,718	59,722	340,338
Effingham	34,331	8,116	6,626	516	2,466	1,729	19	2,210	294	3,320	1,779
Hamilton	7,911	1,767	1,800	112	569	428	4	561	65	887	374
Jersey	21,091	4,157	4,525	264	1,581	1,157	12	1,492	184	2,204	1,114
Jo Daviess	21,756	3,879	6,704	247	1,607	1,379	12	1,879	148	1,849	1,621
Kane	514,982	120,525	83,142	7,666	37,558	24,959	292	31,028	4,875	42,685	232,110
Lake	708,760	162,209	116,830	10,317	51,993	34,694	402	43,222	6,602	56,595	305,714
McHenry	312,800	70,217	53,759	4,466	22,967	15,771	177	19,760	2,830	19,499	72,233
McLean	170,441	35,719	25,682	2,272	13,035	7,771	96	9,492	1,932	17,831	39,582
Macon	100,591	22,687	21,743	1,443	7,271	5,269	57	6,847	932	15,303	26,528
Macoupin	44,018	8,927	9,817	568	3,261	2,434	25	3,163	378	5,596	2,073
Madison	262,752	55,202	50,082	3,511	19,606	13,457	149	17,080	2,539	28,487	45,975
Peoria	177,513	42,247	33,157	2,687	12,795	8,665	100	11,024	1,709	29,050	58,384
Randolph	29,815	5,925	6,433	377	2,234	1,612	17	2,082	223	3,225	4,285
Rock Island	141,236	31,552	29,420	2,007	10,284	7,281	80	9,400	1,283	20,292	45,045
St. Clair	251,018	56,902	45,137	3,619	18,381	12,489	142	15,759	2,424	32,969	100,186
Sangamon	193,491	41,612	38,731	2,647	14,269	10,067	109	12,890	1,827	22,654	42,791
Will	700,728	163,101	105,745	10,374	51,377	33,629	397	41,388	6,788	49,733	287,900
Winnebago	280,922	65,428	53,385	4,161	20,307	14,108	159	17,981	2,603	40,617	100,140

INDIANA

American Lung Association in Indiana

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Allen	7	0	0	2.3	D
Bartholomew	7	0	0	2.3	D
Boone	10	1	0	3.8	F
Brown	2	0	0	0.7	B
Carroll	6	0	0	2.0	C
Clark	6	0	0	2.0	C
Delaware	5	0	0	1.7	C
Dubois	DNC	DNC	DNC	DNC	DNC
Elkhart	4	0	0	1.3	C
Floyd	3	1	0	1.5	C
Greene	10	0	0	3.3	F
Hamilton	5	0	0	1.7	C
Hendricks	4	0	0	1.3	C
Henry	DNC	DNC	DNC	DNC	DNC
Howard	12	0	0	4.0	F
Knox	10	0	0	3.3	F
Lake	21	0	0	7.0	F
LaPorte	19	0	0	6.3	F
Madison	9	0	0	3.0	D
Marion	12	2	0	5.0	F
Monroe	DNC	DNC	DNC	DNC	DNC
Perry	3	0	0	1.0	C
Porter	24	0	0	8.0	F
Posey	7	0	0	2.3	D
St. Joseph	14	0	0	4.7	F
Shelby	6	0	0	2.0	C
Spencer	DNC	DNC	DNC	DNC	DNC
Tippecanoe	DNC	DNC	DNC	DNC	DNC
Vanderburgh	7	0	0	2.3	D
Vigo	7	0	0	2.3	D
Wabash	5	0	0	1.7	C
Warrick	9	0	0	3.0	D
Whitley	DNC	DNC	DNC	DNC	DNC

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
INC	INC	INC	INC	INC	INC	INC	INC
2	0	1	0	1.3	C	7.6	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
5	1	0	0	2.2	D	9.8	Fail
1	0	0	0	0.3	B	8.2	Pass
1	0	0	0	0.3	B	8.9	Pass
5	2	0	0	2.7	D	8.9	Pass
INC	INC	INC	INC	INC	INC	INC	INC
1	1	1	0	1.5	C	7.9	Pass
4	2	0	0	2.3	D	10.0	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
6	2	0	0	3.0	D	8.1	Pass
3	2	0	0	2.0	C	8.0	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
6	2	1	0	3.7	F	10.5	Fail
1	0	0	0	0.3	B	8.3	Pass
6	1	1	0	3.2	D	8.7	Pass
23	3	1	0	9.8	F	11.9	Fail
3	1	1	0	2.2	D	7.9	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
6	2	1	0	3.7	F	9.0	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
4	2	1	0	3.0	D	9.4	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	1	0	0	0.5	B	8.4	Pass
3	1	1	0	2.2	D	8.3	Pass
1	1	0	0	0.8	B	9.4	Fail
2	1	1	0	1.8	C	9.5	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
5	2	1	0	3.3	F	8.6	Pass

INDIANA

American Lung Association in Indiana

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Allen	394,545	99,640	63,254	6,760	34,124	23,965	245	28,659	4,596	50,579	116,597
Bartholomew	84,003	20,215	14,485	1,372	7,369	5,315	52	6,404	917	8,261	17,912
Boone	76,120	19,240	11,702	1,305	6,617	4,737	47	5,599	850	3,502	10,721
Brown	15,653	2,588	4,263	176	1,490	1,304	10	1,646	132	1,538	839
Carroll	20,525	4,422	4,343	300	1,852	1,467	13	1,805	201	1,881	1,426
Clark	125,467	27,311	21,563	1,853	11,376	8,240	78	9,851	1,450	11,588	24,791
Delaware	112,321	20,365	20,083	1,382	10,597	7,261	70	8,755	1,502	20,252	16,715
Dubois	43,546	10,529	8,429	714	3,806	2,942	27	3,592	422	3,281	5,497
Elkhart	206,409	55,809	32,658	3,786	17,439	12,421	128	14,852	2,267	23,765	60,641
Floyd	80,809	17,837	14,612	1,210	7,283	5,388	50	6,492	911	8,065	11,369
Greene	31,196	6,704	6,426	455	2,822	2,217	19	2,715	311	3,665	1,432
Hamilton	371,645	92,760	53,693	6,294	32,535	22,887	231	26,775	4,376	17,814	76,201
Hendricks	186,387	45,504	28,842	3,087	16,380	11,628	116	13,748	2,102	10,215	43,687
Henry	48,929	9,815	9,698	666	4,512	3,434	31	4,177	468	5,752	3,665
Howard	83,831	19,245	16,886	1,306	7,420	5,683	52	6,989	893	10,491	14,267
Knox	36,070	7,788	6,920	528	3,253	2,392	22	2,920	379	5,378	3,409
Lake	500,598	115,228	91,656	7,818	44,502	33,097	310	40,060	5,616	70,594	240,769
LaPorte	111,706	23,540	22,343	1,597	10,147	7,700	70	9,419	1,080	14,984	24,875
Madison	132,504	28,216	25,091	1,914	12,035	8,977	82	10,887	1,420	16,422	23,019
Marion	968,460	240,626	131,576	16,326	84,645	55,558	600	64,893	12,472	148,329	485,628
Monroe	139,342	21,960	21,295	1,490	13,557	8,314	87	9,820	2,089	22,533	25,823
Perry	19,209	3,927	3,820	266	1,760	1,328	12	1,621	173	2,513	1,398
Porter	175,335	37,031	33,101	2,512	15,968	11,911	109	14,429	1,969	15,959	34,991
Posey	25,040	5,355	5,431	363	2,260	1,800	16	2,224	244	2,315	1,245
St. Joseph	272,848	63,119	47,027	4,282	24,197	17,091	169	20,615	3,270	36,928	83,013
Shelby	45,231	10,025	8,774	680	4,064	3,121	28	3,794	465	4,945	4,526
Spencer	19,910	4,284	4,182	291	1,799	1,429	12	1,754	193	1,712	1,291
Tippecanoe	188,792	38,169	23,795	2,590	17,477	10,292	118	11,902	2,610	29,604	51,966
Vanderburgh	179,810	38,818	33,660	2,634	16,234	11,804	111	14,360	2,092	23,903	34,290
Vigo	106,153	21,784	18,749	1,478	9,721	6,739	66	8,140	1,253	19,591	16,106
Wabash	30,670	6,457	6,819	438	2,773	2,202	19	2,736	311	3,472	2,078
Warrick	65,867	14,969	12,635	1,016	5,871	4,469	41	5,437	706	5,365	6,205
Whitley	34,742	7,877	6,920	534	3,094	2,389	22	2,923	352	2,919	2,057

IOWA

American Lung Association in Iowa

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Black Hawk	DNC	DNC	DNC	DNC	DNC
Bremer	9	1	0	3.5	F
Clinton	12	1	0	4.5	F
Harrison	16	0	0	5.3	F
Johnson	DNC	DNC	DNC	DNC	DNC
Lee	DNC	DNC	DNC	DNC	DNC
Linn	14	0	0	4.7	F
Montgomery	5	0	0	1.7	C
Muscatine	DNC	DNC	DNC	DNC	DNC
Palo Alto	12	1	0	4.5	F
Polk	9	0	0	3.0	D
Pottawattamie	DNC	DNC	DNC	DNC	DNC
Scott	19	0	0	6.3	F
Van Buren	3	0	0	1.0	C
Woodbury	DNC	DNC	DNC	DNC	DNC

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
0	1	0	0	0.5	B	8.4	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	2	1	0	2.7	D	9.2	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	3	1	0	3.2	D	8.4	Pass
0	0	0	0	0.0	A	INC	INC
2	3	1	0	2.8	D	8.6	Pass
1	0	0	0	0.3	B	7.2	Pass
1	2	1	0	2.0	C	8.6	Pass
2	1	0	0	1.2	C	INC	INC
4	3	0	0	2.8	D	8.2	Pass
1	1	0	0	0.8	B	8.7	Pass
1	3	1	0	2.5	D	8.9	Pass
1	0	0	0	0.3	B	7.5	Pass
0	3	0	0	1.5	C	8.6	Pass

IOWA

American Lung Association in Iowa

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Black Hawk	130,471	28,522	23,549	1,642	9,183	5,779	77	7,795	1,620	17,837	27,765
Bremer	25,307	5,690	5,067	328	1,758	1,188	15	1,634	285	1,848	1,573
Clinton	46,158	10,509	9,622	605	3,183	2,282	27	3,152	468	6,040	4,744
Harrison	14,670	3,419	3,025	197	1,004	728	9	1,004	142	1,414	694
Johnson	157,528	30,155	21,803	1,736	11,594	6,320	93	8,052	2,342	22,903	38,005
Lee	32,565	6,942	7,307	400	2,283	1,663	19	2,324	314	4,509	3,033
Linn	228,972	50,973	40,961	2,934	16,009	10,540	136	14,152	2,657	22,062	38,339
Montgomery	10,139	2,266	2,333	130	700	518	6	729	97	1,286	701
Muscatine	42,218	9,944	7,893	572	2,895	1,979	25	2,685	440	4,852	10,337
Palo Alto	8,810	2,031	2,030	117	603	439	5	621	83	911	673
Polk	505,255	121,524	72,542	6,995	34,746	21,161	300	27,386	6,200	57,161	131,322
Pottawattamie	93,179	21,132	17,944	1,216	6,458	4,429	55	6,032	1,004	10,542	13,847
Scott	174,270	39,970	31,566	2,301	12,068	8,029	103	10,821	1,986	18,741	38,387
Van Buren	7,266	1,738	1,678	100	491	368	4	520	65	1,064	303
Woodbury	105,951	27,116	16,871	1,561	7,110	4,521	63	5,990	1,192	13,286	34,443

KANSAS

American Lung Association in Kansas

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Johnson	6	1	0	2.5	D
Leavenworth	12	0	0	4.0	F
Neosho	0	0	0	0.0	A
Sedgwick	8	0	0	2.7	D
Shawnee	7	0	0	2.3	D
Sherman	DNC	DNC	DNC	DNC	DNC
Sumner	5	0	0	1.7	C
Trego	2	0	0	0.7	B
Wyandotte	19	1	0	6.8	F

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
5	0	0	0	1.7	C	8.3	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	1	0	0	1.5	C	9.3	Fail
4	1	0	0	1.8	C	9.7	Fail
3	2	0	0	2.0	C	INC	INC
INC	INC	INC	INC	INC	INC	8.8	Pass
4	1	0	0	1.8	C	8.9	Pass
5	1	0	0	2.2	D	6.8	Pass
3	1	0	0	1.5	C	9.6	Fail

KANSAS

American Lung Association in Kansas

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Johnson	622,237	144,378	102,852	9,925	47,852	30,206	309	39,981	7,375	32,942	141,047
Leavenworth	83,518	19,682	13,788	1,353	6,392	4,028	42	5,335	858	6,431	17,974
Neosho	15,420	3,722	3,216	256	1,150	805	8	1,102	156	2,224	1,766
Sedgwick	528,469	130,091	86,384	8,943	39,916	24,743	263	32,798	6,265	70,379	180,527
Shawnee	177,746	40,606	35,517	2,791	13,555	9,189	88	12,479	1,981	21,878	49,524
Sherman	5,844	1,415	1,272	97	435	299	3	413	59	768	1,029
Sumner	22,334	5,348	4,571	368	1,672	1,172	11	1,599	225	2,464	2,649
Trego	2,731	524	754	36	212	168	1	237	24	289	182
Wyandotte	165,281	44,637	22,709	3,068	12,189	7,213	82	9,380	1,966	27,891	103,974

KENTUCKY

American Lung Association in Kentucky

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Bell	0	0	0	0.0	A
Boone	6	1	0	2.5	D
Boyd	0	0	0	0.0	A
Bullitt	8	0	0	2.7	D
Campbell	3	0	0	1.0	C
Carter	0	0	0	0.0	A
Christian	3	0	0	1.0	C
Daviess	7	0	0	2.3	D
Edmonson	4	0	0	1.3	C
Fayette	1	0	0	0.3	B
Greenup	0	0	0	0.0	A
Hancock	7	0	0	2.3	D
Hardin	3	0	0	1.0	C
Jefferson	23	1	0	8.2	F
Jessamine	3	0	0	1.0	C
Livingston	7	0	0	2.3	D
McCracken	8	0	0	2.7	D
Morgan	0	0	0	0.0	A
Oldham	4	0	0	1.3	C
Perry	0	0	0	0.0	A
Pike	0	0	0	0.0	A
Pulaski	0	0	0	0.0	A
Simpson	7	0	0	2.3	D
Trigg	INC	INC	INC	INC	INC
Warren	1	0	0	0.3	B
Washington	2	0	0	0.7	B

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
4	0	0	0	1.3	C	9.1	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	2	0	0	1.7	C	7.5	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	2	0	0	2.0	C	7.6	Pass
1	1	0	0	0.8	B	6.3	Pass
2	0	0	0	0.7	B	8.6	Pass
2	1	0	0	1.2	C	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	1	0	0	1.2	C	7.8	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	0	0	0	0.7	B	7.8	Pass
5	1	0	0	2.2	D	9.5	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
4	0	0	0	1.3	C	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
5	2	0	0	2.7	D	8.0	Pass
2	1	0	0	1.2	C	6.8	Pass
2	0	0	0	0.7	B	7.5	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	1	0	0	1.5	C	7.4	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC

KENTUCKY

American Lung Association in Kentucky

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Bell	23,317	5,161	4,699	488	1,960	2,261	19	2,410	242	6,547	1,639
Boone	140,496	35,434	21,519	3,353	11,490	12,201	113	12,631	1,585	10,333	23,048
Boyd	47,826	10,134	9,896	959	4,064	4,691	39	5,016	487	8,249	3,530
Bullitt	84,863	17,812	15,254	1,686	7,292	8,122	68	8,493	948	7,130	7,131
Campbell	93,702	19,066	17,096	1,804	8,115	8,672	75	9,171	1,105	9,417	8,116
Carter	26,366	5,855	5,339	554	2,213	2,567	21	2,736	274	4,922	922
Christian	72,032	20,511	9,382	1,941	5,667	5,082	58	5,347	808	11,900	25,813
Daviess	103,458	25,134	18,874	2,378	8,491	9,323	83	9,903	1,138	16,349	14,511
Edmonson	12,448	2,235	2,689	212	1,101	1,302	10	1,385	133	1,968	680
Fayette	320,154	66,445	49,329	6,288	27,822	27,121	258	28,345	4,265	48,315	103,824
Greenup	35,221	7,370	8,002	697	2,985	3,586	28	3,876	359	5,522	1,539
Hancock	8,920	2,076	1,715	196	740	854	7	904	91	1,049	424
Hardin	112,273	27,780	17,403	2,629	9,239	9,663	90	10,049	1,278	15,567	28,006
Jefferson	772,144	170,854	137,441	16,168	65,385	69,832	620	73,828	9,191	122,737	289,234
Jessamine	55,017	12,919	9,384	1,223	4,584	4,937	44	5,182	643	5,485	7,501
Livingston	8,892	1,821	2,052	172	757	935	7	1,006	85	1,263	555
McCracken	67,428	14,581	14,120	1,380	5,692	6,543	54	7,032	735	10,425	12,350
Morgan	14,283	2,613	2,563	247	1,272	1,365	12	1,429	125	3,019	1,528
Oldham	70,183	16,986	10,604	1,607	5,826	6,304	57	6,466	724	3,801	9,188
Perry	27,133	6,351	5,025	601	2,252	2,560	22	2,698	289	7,849	1,325
Pike	55,973	11,384	11,629	1,077	4,810	5,614	45	5,978	581	12,737	2,025
Pulaski	66,191	14,387	13,415	1,361	5,591	6,500	53	6,917	699	11,056	4,617
Simpson	20,195	4,684	3,484	443	1,688	1,842	16	1,930	220	2,691	3,214
Trigg	14,369	3,089	3,381	292	1,205	1,505	12	1,627	132	1,939	1,855
Warren	142,229	33,475	19,422	3,168	11,972	11,395	114	11,780	1,872	19,312	36,297
Washington	12,267	2,847	2,366	269	1,019	1,173	10	1,243	124	1,582	1,508

LOUISIANA

American Lung Association in Louisiana

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Ascension Parish	3	2	0	2.0	C
Bossier Parish	0	0	0	0.0	A
Caddo Parish	1	0	0	0.3	B
Calcasieu Parish	4	1	0	1.8	C
East Baton Rouge Parish	10	1	0	3.8	F
Iberville Parish	21	2	0	8.0	F
Jefferson Parish	5	0	0	1.7	C
Lafayette Parish	2	0	0	0.7	B
Lafourche Parish	1	0	0	0.3	B
Livingston Parish	5	0	0	1.7	C
Orleans Parish	DNC	DNC	DNC	DNC	DNC
Ouachita Parish	0	0	0	0.0	A
Pointe Coupee Parish	4	0	0	1.3	C
Rapides Parish	DNC	DNC	DNC	DNC	DNC
St. Bernard Parish	3	0	0	1.0	C
St. James Parish	2	0	0	0.7	B
St. John the Baptist Parish	5	0	0	1.7	C
St. Martin Parish	1	0	0	0.3	B
St. Tammany Parish	1	0	0	0.3	B
Tangipahoa Parish	DNC	DNC	DNC	DNC	DNC
Terrebonne Parish	DNC	DNC	DNC	DNC	DNC
West Baton Rouge Parish	14	0	0	4.7	F

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0	0.0	A	9.6	Fail
1	0	0	0	0.3	B	7.6	Pass
3	0	0	0	1.0	C	8.9	Pass
0	0	0	0	0.0	A	7.9	Pass
1	0	0	0	0.3	B	7.7	Pass
1	0	0	0	0.3	B	7.9	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0	0.0	A	7.8	Pass
1	0	0	0	0.3	B	7.8	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	7.9	Pass
0	0	0	0	0.0	A	8.2	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0	0.0	A	7.7	Pass
2	1	0	0	1.2	C	7.9	Pass
2	0	0	0	0.7	B	9.1	Fail

LOUISIANA

American Lung Association in Louisiana

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Ascension Parish	131,632	34,316	18,017	3,003	10,519	8,144	78	10,638	1,604	13,963	47,560
Bossier Parish	129,795	31,948	20,693	2,796	10,527	8,280	77	10,956	1,551	17,641	48,249
Caddo Parish	226,386	52,592	44,291	4,602	18,384	15,721	133	21,319	2,620	50,737	129,974
Calcasieu Parish	203,761	50,425	34,222	4,412	16,399	13,317	121	17,758	2,371	35,387	68,727
East Baton Rouge Parish	448,467	100,971	70,903	8,835	37,655	28,332	265	37,200	6,060	86,425	259,410
Iberville Parish	29,617	6,190	5,300	542	2,501	2,051	18	2,741	334	5,422	15,842
Jefferson Parish	421,777	93,320	82,284	8,166	34,753	29,743	250	40,269	4,795	71,376	218,348
Lafayette Parish	249,750	60,283	38,539	5,275	20,424	15,928	148	20,984	3,091	41,666	93,475
Lafourche Parish	95,056	21,505	16,421	1,882	7,846	6,477	56	8,650	1,087	17,950	23,922
Livingston Parish	150,145	38,300	21,341	3,351	12,087	9,336	89	12,222	1,855	20,924	29,102
Orleans Parish	364,136	70,990	66,128	6,212	31,411	25,159	214	33,543	4,904	80,769	251,398
Ouachita Parish	157,568	38,561	25,711	3,374	12,762	10,225	93	13,578	1,917	32,634	69,144
Pointe Coupee Parish	20,000	4,256	4,633	372	1,638	1,514	12	2,093	202	3,978	7,910
Rapides Parish	126,260	31,500	22,178	2,756	10,084	8,403	75	11,280	1,423	24,624	50,376
St. Bernard Parish	44,463	11,455	6,131	1,002	3,575	2,728	26	3,559	568	7,958	19,748
St. James Parish	19,191	4,196	3,921	367	1,578	1,386	11	1,888	209	2,879	9,635
St. John the Baptist Parish	39,592	9,458	6,479	828	3,217	2,655	23	3,535	457	6,589	27,846
St. Martin Parish	51,057	12,116	9,074	1,060	4,135	3,495	30	4,695	566	9,158	18,401
St. Tammany Parish	275,583	64,546	52,409	5,648	22,294	19,286	163	26,110	3,028	32,491	73,355
Tangipahoa Parish	138,064	33,831	21,576	2,960	11,232	8,762	82	11,561	1,715	25,447	53,651
Terrebonne Parish	103,616	25,668	17,018	2,246	8,326	6,837	62	9,109	1,157	16,450	36,406
West Baton Rouge Parish	28,266	6,893	4,331	603	2,302	1,807	17	2,381	335	3,749	13,486

MAINE

American Lung Association in Maine

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Androscoggin	0	0	0	0.0	A
Aroostook	0	0	0	0.0	A
Cumberland	5	0	0	1.7	C
Hancock	4	0	0	1.3	C
Kennebec	0	0	0	0.0	A
Knox	2	0	0	0.7	B
Oxford	0	0	0	0.0	A
Penobscot	0	0	0	0.0	A
Sagadahoc	INC	INC	INC	INC	INC
Washington	0	0	0	0.0	A
York	5	0	0	1.7	C

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
0	0	0	0	0.0	A	5.3	Pass
3	1	0	0	1.5	C	5.5	Pass
3	0	0	0	1.0	C	7.0	Pass
0	0	0	0	0.0	A	3.7	Pass
0	0	0	0	0.0	A	5.8	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	5.3	Pass
0	0	0	0	0.0	A	4.8	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
INC	INC	INC	INC	INC	INC	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC

MAINE

American Lung Association in Maine

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Androscoggin	113,765	23,176	21,935	1,669	11,855	7,375	72	8,702	1,007	14,094	13,462
Aroostook	67,351	12,654	17,619	911	6,988	4,975	43	6,239	477	7,949	4,657
Cumberland	310,230	55,120	65,145	3,970	33,294	21,049	197	25,080	2,815	20,708	35,848
Hancock	56,526	8,937	15,485	644	6,089	4,301	36	5,392	431	5,586	3,619
Kennebec	127,259	23,651	27,641	1,703	13,453	8,759	81	10,558	1,075	14,132	8,674
Knox	40,977	6,829	11,729	492	4,350	3,143	26	3,982	291	3,414	2,341
Oxford	59,905	10,476	14,705	755	6,349	4,390	38	5,426	452	8,529	3,192
Penobscot	155,312	27,076	32,201	1,950	16,739	10,572	99	12,571	1,370	18,810	11,660
Sagadahoc	37,513	6,648	9,447	479	3,967	2,734	24	3,387	290	3,229	2,285
Washington	31,555	5,838	8,516	420	3,281	2,353	20	2,965	227	6,178	3,513
York	218,586	38,068	50,517	2,742	23,357	15,514	139	18,882	1,793	17,462	15,886

MARYLAND

American Lung Association in Maryland

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Anne Arundel	3	0	0	1.0	C
Baltimore	19	1	1	7.5	F
Calvert	2	0	0	0.7	B
Carroll	6	0	0	2.0	C
Cecil	7	0	0	2.3	D
Charles	3	0	0	1.0	C
Dorchester	7	0	0	2.3	D
Frederick	8	0	0	2.7	D
Garrett	0	0	0	0.0	A
Harford	17	0	0	5.7	F
Howard	DNC	DNC	DNC	DNC	DNC
Kent	6	0	0	2.0	C
Montgomery	7	0	0	2.3	D
Prince George's	14	1	0	5.2	F
Washington	3	0	0	1.0	C
Baltimore City	5	1	0	2.2	D

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	3	0	0	2.2	D	8.3	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	4	0	0	2.3	D	7.4	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	3	0	0	1.8	C	6.9	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	2	0	0	1.0	C	5.6	Pass
1	3	0	0	1.8	C	7.3	Pass
1	3	0	0	1.8	C	7.4	Pass
1	3	0	0	1.8	C	6.0	Pass
0	3	0	0	1.5	C	7.1	Pass
0	3	0	0	1.5	C	6.5	Pass
3	2	0	0	2.0	C	7.0	Pass
1	3	0	0	1.8	C	INC	INC

MARYLAND

American Lung Association in Maryland

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Anne Arundel	594,582	133,550	97,887	8,017	49,905	25,216	276	35,742	6,188	36,637	225,578
Baltimore	844,703	183,157	157,919	10,995	71,368	37,440	391	53,932	9,053	80,251	408,996
Calvert	94,728	21,783	16,037	1,308	7,850	4,079	44	5,861	920	4,626	24,039
Carroll	176,639	39,177	32,310	2,352	14,759	7,843	82	11,375	1,678	11,031	25,901
Cecil	105,672	23,340	18,651	1,401	8,852	4,644	49	6,700	1,038	10,384	19,344
Charles	171,973	40,744	24,347	2,446	14,193	7,003	80	9,835	1,823	13,202	117,874
Dorchester	32,879	6,783	7,760	407	2,776	1,611	15	2,418	308	5,094	12,731
Frederick	293,391	68,563	45,824	4,116	24,347	12,180	136	17,192	3,071	18,475	101,464
Garrett	28,423	4,943	7,163	297	2,487	1,472	13	2,226	242	2,993	1,256
Harford	264,644	58,594	47,686	3,517	22,169	11,657	123	16,826	2,627	19,117	73,524
Howard	336,001	79,057	53,280	4,746	27,756	14,059	156	19,966	3,517	18,652	180,155
Kent	19,303	2,910	5,519	175	1,741	1,050	9	1,597	176	2,349	4,444
Montgomery	1,058,474	238,759	187,319	14,333	88,234	46,193	491	66,553	10,861	75,263	628,434
Prince George's	947,430	206,709	148,087	12,409	80,237	39,944	439	56,260	10,190	101,680	843,359
Washington	155,813	33,592	28,617	2,017	13,160	6,919	72	9,984	1,457	16,984	42,227
Baltimore City	565,239	117,753	89,474	7,069	48,947	23,522	261	32,486	7,045	110,261	414,893

MASSACHUSETTS

American Lung Association in Massachusetts

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Barnstable	6	0	0	2.0	C
Berkshire	1	0	0	0.3	B
Bristol	7	0	0	2.3	D
Dukes	6	0	0	2.0	C
Essex	5	0	0	1.7	C
Franklin	1	0	0	0.3	B
Hampden	5	0	0	1.7	C
Hampshire	2	0	0	0.7	B
Middlesex	1	0	0	0.3	B
Norfolk	7	0	0	2.3	D
Plymouth	3	0	0	1.0	C
Suffolk	3	0	0	1.0	C
Worcester	2	0	0	0.7	B

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
5	3	0	0	3.2	D	6.6	Pass
4	0	0	0	1.3	C	5.9	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	0	0	0	1.0	C	7.2	Pass
6	1	0	0	2.5	D	7.2	Pass
4	2	0	0	2.3	D	5.8	Pass
5	0	0	0	1.7	C	6.0	Pass
0	1	0	0	0.5	B	5.8	Pass
1	0	0	0	0.3	B	INC	INC
3	0	0	0	1.0	C	7.9	Pass
1	0	0	0	0.3	B	7.1	Pass
5	0	0	0	1.7	C	8.2	Pass

MASSACHUSETTS

American Lung Association in Massachusetts

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Barnstable	231,735	31,794	78,708	1,866	23,240	14,827	109	20,227	1,457	20,388	26,633
Berkshire	126,818	20,097	33,191	1,179	12,556	7,053	60	9,306	1,013	15,266	17,347
Bristol	581,841	118,224	106,264	6,938	55,135	27,207	275	34,369	5,282	72,670	129,345
Dukes	20,819	3,633	5,836	213	2,010	1,200	10	1,603	145	1,755	2,792
Essex	810,089	167,210	154,361	9,813	76,385	38,179	382	48,541	7,241	76,541	273,889
Franklin	70,836	11,591	18,241	680	6,974	3,895	33	5,131	570	8,325	7,989
Hampden	460,291	95,008	86,320	5,576	43,484	21,290	217	27,000	4,261	78,475	185,452
Hampshire	162,502	22,556	32,314	1,324	16,755	7,709	77	9,732	1,896	17,279	29,995
Middlesex	1,623,952	313,933	273,933	18,424	156,598	72,696	766	90,577	16,035	120,838	517,572
Norfolk	727,473	147,400	133,070	8,651	69,011	33,925	343	42,856	6,787	54,608	215,816
Plymouth	535,308	109,171	109,361	6,407	50,442	26,311	253	33,776	4,463	42,087	111,833
Suffolk	768,425	121,787	106,606	7,148	78,242	31,030	362	37,206	9,552	109,289	422,523
Worcester	866,866	176,462	152,994	10,356	82,218	39,902	409	50,163	7,883	91,666	236,561

MICHIGAN

American Lung Association in Michigan

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Allegan	23	3	0	9.2	F
Bay	DNC	DNC	DNC	DNC	DNC
Benzie	4	2	0	2.3	D
Berrien	18	1	0	6.5	F
Cass	12	0	0	4.0	F
Clinton	3	0	0	1.0	C
Genesee	11	1	0	4.2	F
Huron	7	0	0	2.3	D
Ingham	2	1	0	1.2	C
Kalamazoo	5	0	0	1.7	C
Kent	14	0	0	4.7	F
Lenawee	4	0	0	1.3	C
Macomb	13	0	0	4.3	F
Manistee	12	2	0	5.0	F
Mason	6	1	0	2.5	D
Missaukee	6	0	0	2.0	C
Muskegon	24	2	0	9.0	F
Oakland	10	1	0	3.8	F
Ottawa	9	2	0	4.0	F
St. Clair	15	0	0	5.0	F
Schoolcraft	5	0	0	1.7	C
Tuscola	7	1	0	2.8	D
Washtenaw	8	1	0	3.2	D
Wayne	17	1	0	6.2	F
Wexford	8	0	0	2.7	D

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
0	0	0	0	0.0	A	INC	INC
3	3	0	0	2.5	D	7.3	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	3	0	0	2.5	D	8.1	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
5	4	0	0	3.7	F	8.9	Pass
5	2	1	0	3.3	F	10.4	Fail
4	2	1	0	3.0	D	9.3	Fail
3	2	0	0	2.0	C	INC	INC
2	4	0	0	2.7	D	8.7	Pass
0	0	0	0	0.0	A	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	1	1	0	1.2	C	9.4	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	1	0	0	0.8	B	INC	INC
4	2	1	0	3.0	D	INC	INC
5	4	0	0	3.7	F	8.4	Pass
1	0	0	0	0.3	B	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	1	2	0	2.8	D	9.3	Fail
19	3	1	0	8.5	F	13.0	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC

MICHIGAN

American Lung Association in Michigan

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Allegan	121,939	28,000	23,125	2,035	10,382	8,208	65	9,331	1,113	11,987	15,769
Bay	102,500	19,742	22,983	1,435	9,100	7,494	54	8,653	935	12,966	11,390
Benzie	18,441	3,124	5,392	227	1,665	1,528	10	1,824	143	1,765	1,245
Berrien	152,261	32,181	33,509	2,339	13,201	10,892	81	12,586	1,376	20,324	38,590
Cass	51,642	10,336	11,910	751	4,536	3,842	27	4,466	440	6,256	7,404
Clinton	79,720	16,777	15,530	1,220	6,956	5,495	42	6,248	763	5,502	9,245
Genesee	401,522	88,219	77,829	6,413	34,608	27,275	213	31,019	3,898	70,895	115,357
Huron	30,927	5,835	8,590	424	2,732	2,484	16	2,955	230	4,377	1,779
Ingham	284,637	54,858	43,269	3,988	25,577	17,017	151	18,392	3,542	42,961	89,923
Kalamazoo	262,215	55,388	43,432	4,026	22,954	16,144	139	17,784	3,004	33,110	63,610
Kent	661,354	153,510	102,130	11,159	56,468	39,958	351	43,920	7,184	68,064	185,978
Lenawee	97,520	19,807	20,515	1,440	8,564	6,911	52	7,925	876	9,887	13,944
Macomb	875,101	179,163	164,492	13,024	77,031	59,914	464	67,734	8,599	91,776	221,044
Manistee	25,562	4,256	7,368	309	2,317	2,090	14	2,488	182	3,434	2,956
Mason	29,159	5,553	7,830	404	2,574	2,286	15	2,706	235	4,204	2,764
Missaukee	15,311	3,381	3,460	246	1,309	1,101	8	1,279	127	1,741	1,050
Muskegon	176,564	39,294	33,437	2,856	15,171	11,772	94	13,336	1,685	24,094	42,722
Oakland	1,270,426	254,657	242,408	18,511	112,385	87,516	675	99,032	12,391	103,791	381,452
Ottawa	303,372	68,744	52,010	4,997	26,005	19,012	161	21,176	3,217	26,507	51,856
St. Clair	159,874	32,050	33,468	2,330	14,098	11,575	85	13,295	1,408	18,488	15,190
Schoolcraft	8,149	1,465	2,386	106	726	684	4	820	57	1,162	1,308
Tuscola	52,826	10,517	11,856	764	4,652	3,897	28	4,513	446	7,469	3,922
Washtenaw	365,536	65,633	60,189	4,771	33,331	23,031	194	25,199	4,313	50,467	113,670
Wayne	1,751,169	411,479	299,646	29,911	148,527	111,710	929	125,092	17,911	357,796	897,563
Wexford	34,122	7,738	7,189	562	2,904	2,375	18	2,736	301	4,520	2,387

MINNESOTA

American Lung Association in Minnesota

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Anoka	15	1	0	5.5	F
Becker	3	0	0	1.0	C
Beltrami	DNC	DNC	DNC	DNC	DNC
Carlton	0	0	0	0.0	A
Cass	DNC	DNC	DNC	DNC	DNC
Cook	DNC	DNC	DNC	DNC	DNC
Crow Wing	5	0	0	1.7	C
Dakota	DNC	DNC	DNC	DNC	DNC
Goodhue	5	0	0	1.7	C
Hennepin	6	1	0	2.5	D
Lake	0	0	0	0.0	A
Lyon	4	0	0	1.3	C
Mille Lacs	5	0	0	1.7	C
Olmsted	10	0	0	3.3	F
Ramsey	DNC	DNC	DNC	DNC	DNC
St. Louis	2	0	0	0.7	B
Scott	9	1	0	3.5	F
Stearns	6	1	0	2.5	D
Washington	9	0	0	3.0	D
Wright	13	1	0	4.8	F

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
5	3	0	0	3.2	D	7.4	Pass
10	6	1	0	7.0	F	8.6	Pass
9	3	2	0	5.8	F	6.9	Pass
8	1	0	0	3.2	D	3.7	Pass
10	4	1	0	6.0	F	8.9	Pass
4	1	0	0	1.8	C	2.7	Pass
5	3	1	0	3.8	F	6.7	Pass
7	5	0	0	4.8	F	8.0	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
6	5	0	0	4.5	F	8.6	Pass
4	1	0	0	1.8	C	4.9	Pass
9	7	0	0	6.5	F	7.8	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
8	1	0	0	3.2	D	7.2	Pass
10	3	0	0	4.8	F	9.0	Pass
11	3	0	0	5.2	F	6.0	Pass
3	4	0	0	3.0	D	7.8	Pass
6	4	1	0	4.7	F	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
5	4	0	0	3.7	F	7.9	Pass

MINNESOTA

American Lung Association in Minnesota

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Anoka	372,441	87,993	59,551	4,696	28,154	12,310	194	22,591	3,938	23,998	93,875
Becker	35,283	8,068	8,263	431	2,627	1,348	18	2,630	317	4,094	4,774
Beltrami	46,718	11,425	8,358	610	3,459	1,524	24	2,862	501	7,612	13,377
Carlton	36,825	7,980	6,978	426	2,831	1,314	19	2,468	336	3,194	4,617
Cass	31,446	6,234	8,662	333	2,410	1,338	16	2,658	246	4,571	5,089
Cook	5,639	809	1,820	43	457	262	3	530	49	598	930
Crow Wing	68,304	13,759	17,067	734	5,253	2,745	35	5,380	605	6,191	3,909
Dakota	447,440	106,392	73,682	5,678	33,685	14,823	232	27,350	4,795	26,470	119,487
Goodhue	48,035	10,428	10,212	557	3,662	1,788	25	3,423	455	3,433	4,469
Hennepin	1,258,713	269,227	204,631	14,368	97,823	41,290	654	75,754	14,770	125,382	422,128
Lake	10,855	2,036	3,080	109	841	468	6	933	87	927	598
Lyon	25,427	6,694	4,614	357	1,834	838	13	1,581	260	2,758	4,706
Mille Lacs	27,427	6,337	5,134	338	2,070	970	14	1,823	260	2,893	3,074
Olmsted	164,784	38,963	28,679	2,079	12,372	5,443	85	10,145	1,850	12,929	39,113
Ramsey	536,075	122,184	87,785	6,521	40,831	17,183	278	31,682	6,333	62,146	221,832
St. Louis	200,514	36,720	43,779	1,960	15,937	7,502	104	14,365	2,146	25,750	19,020
Scott	155,814	39,577	20,368	2,112	11,618	4,843	81	8,640	1,701	8,230	37,037
Stearns	160,977	37,887	26,736	2,022	12,129	5,174	84	9,575	1,777	16,996	31,135
Washington	278,936	66,121	48,070	3,529	20,978	9,487	145	17,620	2,881	13,645	61,956
Wright	151,150	40,678	21,247	2,171	10,986	4,681	79	8,475	1,577	8,100	16,379

MISSISSIPPI

American Lung Association in Mississippi

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Bolivar	3	0	0	1.0	C
DeSoto	11	0	0	3.7	F
Forrest	DNC	DNC	DNC	DNC	DNC
Hancock	1	0	0	0.3	B
Harrison	1	0	0	0.3	B
Hinds	2	0	0	0.7	B
Jackson	3	0	0	1.0	C
Lauderdale	0	0	0	0.0	A
Lee	2	0	0	0.7	B
Yalobusha	1	0	0	0.3	B

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
1	0	0	0	0.3	B	8.2	Pass
2	0	0	0	0.7	B	8.7	Pass
1	0	0	0	0.3	B	9.2	Fail
0	0	0	0	0.0	A	7.8	Pass
0	0	0	0	0.0	A	8.0	Pass
2	0	0	0	0.7	B	9.3	Fail
0	0	0	0	0.0	A	7.6	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC

MISSISSIPPI

American Lung Association in Mississippi

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Bolivar	28,968	7,131	5,139	494	1,563	1,661	19	2,415	331	10,583	19,603
DeSoto	193,247	47,541	26,803	3,293	10,506	10,738	129	15,040	2,393	17,574	85,740
Forrest	78,208	17,784	11,055	1,232	4,262	4,138	52	5,775	1,114	13,807	34,448
Hancock	46,159	8,692	10,727	602	2,718	3,125	31	4,692	463	7,157	7,387
Harrison	210,612	49,023	36,304	3,396	11,599	12,272	141	17,716	2,429	32,963	80,941
Hinds	214,870	49,758	36,389	3,447	11,796	12,299	143	17,697	2,677	43,453	165,373
Jackson	146,389	33,114	26,026	2,294	8,166	8,764	98	12,698	1,645	19,431	49,038
Lauderdale	70,527	16,383	13,596	1,135	3,888	4,234	47	6,223	754	15,955	34,862
Lee	82,799	20,572	13,144	1,425	4,479	4,697	55	6,715	964	11,003	30,973
Yalobusha	12,386	2,605	2,794	180	705	801	8	1,203	126	2,493	5,190

MISSOURI

American Lung Association in Missouri

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Andrew	7	0	0	2.3	D
Boone	5	0	0	1.7	C
Buchanan	DNC	DNC	DNC	DNC	DNC
Callaway	5	0	0	1.7	C
Cass	5	0	0	1.7	C
Cedar	4	0	0	1.3	C
Clay	23	0	0	7.7	F
Clinton	12	0	0	4.0	F
Greene	4	0	0	1.3	C
Jackson	DNC	DNC	DNC	DNC	DNC
Jasper	4	0	0	1.3	C
Jefferson	20	2	0	7.7	F
Lincoln	16	0	0	5.3	F
Monroe	3	0	0	1.0	C
Perry	13	0	0	4.3	F
St. Charles	24	0	0	8.0	F
Ste. Genevieve	12	0	0	4.0	F
St. Louis	19	2	0	7.3	F
St. Louis City	14	2	0	5.7	F

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
5	0	0	0	1.7	C	8.6	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	INC	INC
0	0	0	0	0.0	A	6.8	Pass
1	0	0	0	0.3	B	6.0	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	INC	INC
5	1	0	0	2.2	D	7.6	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	1	0	0	0.8	B	8.2	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	1	0	0	0.5	B	7.2	Pass
5	1	0	0	2.2	D	9.6	Fail

MISSOURI

American Lung Association in Missouri

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases			Lung Cancer	CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD					
Andrew	18,127	4,075	3,787	326	1,390	1,285	11	1,623	174	1,504	1,247
Boone	189,463	37,878	26,784	3,035	15,456	10,752	116	13,341	2,621	25,749	44,114
Buchanan	82,956	18,451	14,958	1,478	6,450	5,442	51	6,814	851	11,962	15,646
Callaway	44,731	9,216	8,273	738	3,546	3,031	28	3,790	453	5,393	4,922
Cass	111,732	25,852	20,521	2,071	8,551	7,503	69	9,381	1,140	7,698	16,723
Cedar	14,672	3,574	3,439	286	1,089	1,073	9	1,371	122	2,163	971
Clay	259,772	60,538	40,778	4,850	20,026	16,144	160	20,005	2,918	20,019	58,322
Clinton	21,548	4,905	4,162	393	1,651	1,498	13	1,876	205	2,041	1,580
Greene	304,611	62,952	53,107	5,043	24,324	19,265	187	24,163	3,608	41,389	44,732
Jackson	718,560	165,358	117,328	13,248	55,629	44,568	441	55,534	8,284	84,520	285,225
Jasper	125,056	30,541	20,724	2,447	9,488	7,725	77	9,648	1,366	18,915	23,146
Jefferson	231,230	51,611	39,902	4,135	17,929	15,412	142	19,135	2,382	20,986	16,455
Lincoln	64,699	16,151	9,728	1,294	4,877	3,960	40	4,889	682	5,382	5,035
Monroe	8,698	1,911	2,181	153	664	672	5	859	71	1,049	706
Perry	18,950	4,185	3,907	335	1,461	1,347	12	1,697	180	1,869	1,124
St. Charles	416,659	92,794	73,375	7,434	32,367	27,474	256	34,262	4,419	22,647	66,609
Ste. Genevieve	18,642	3,994	4,052	320	1,447	1,353	11	1,713	164	1,708	1,077
St. Louis	987,059	215,244	194,144	17,244	76,830	67,372	605	84,869	10,585	94,080	360,289
St. Louis City	281,754	50,849	45,784	4,074	23,357	17,655	173	21,981	3,689	54,810	153,057

MONTANA

American Lung Association in Montana

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Beaverhead	DNC	DNC	DNC	DNC	DNC
Custer	INC	INC	INC	INC	INC
Fergus	5	0	0	1.7	C
Flathead	0	0	0	0.0	A
Gallatin	DNC	DNC	DNC	DNC	DNC
Glacier	DNC	DNC	DNC	DNC	DNC
Hill	DNC	DNC	DNC	DNC	DNC
Lewis and Clark	1	0	0	0.3	B
Lincoln	DNC	DNC	DNC	DNC	DNC
Missoula	0	0	0	0.0	A
Phillips	1	0	0	0.3	B
Powder River	2	0	0	0.7	B
Ravalli	DNC	DNC	DNC	DNC	DNC
Richland	1	0	0	0.3	B
Rosebud	INC	INC	INC	INC	INC
Silver Bow	DNC	DNC	DNC	DNC	DNC
Yellowstone	DNC	DNC	DNC	DNC	DNC

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
INC	INC	INC	INC	INC	INC	INC	INC
INC	INC	INC	INC	INC	INC	INC	INC
16	3	0	0	6.8	F	5.4	Pass
16	4	0	0	7.3	F	8.6	Pass
6	0	0	0	2.0	C	4.1	Pass
INC	INC	INC	INC	INC	INC	INC	INC
INC	INC	INC	INC	INC	INC	INC	INC
19	8	0	0	10.3	F	8.7	Pass
17	10	0	0	10.7	F	12.8	Fail
24	7	0	0	11.5	F	10.5	Fail
7	7	0	0	5.8	F	INC	INC
16	8	0	0	9.3	F	8.3	Pass
20	13	2	0	14.5	F	7.8	Pass
8	4	1	0	5.3	F	6.2	Pass
INC	INC	INC	INC	INC	INC	INC	INC
25	8	0	0	12.3	F	8.3	Pass
13	3	0	0	5.8	F	7.8	Pass

MONTANA

American Lung Association in Montana

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Beaverhead	9,885	1,729	2,393	117	949	604	4	724	95	1,224	1,063
Custer	11,985	2,348	2,520	159	1,136	697	5	819	113	1,571	1,163
Fergus	11,772	2,456	2,969	166	1,080	721	5	881	100	1,292	843
Flathead	113,679	24,449	24,164	1,651	10,497	6,535	51	7,737	1,064	11,138	9,976
Gallatin	126,409	23,541	17,634	1,590	12,350	6,304	57	6,747	1,519	10,694	13,377
Glacier	13,609	4,025	1,863	272	1,151	630	6	699	135	3,754	9,564
Hill	16,276	4,571	2,709	309	1,387	799	7	914	154	3,004	5,212
Lewis and Clark	75,011	15,806	15,560	1,068	6,978	4,284	34	5,041	716	6,827	7,351
Lincoln	21,895	3,885	6,690	262	2,061	1,499	10	1,892	163	3,287	1,734
Missoula	121,849	21,725	21,390	1,467	11,894	6,578	55	7,370	1,435	13,548	15,370
Phillips	4,249	1,004	1,013	68	378	252	2	308	33	700	744
Powder River	1,743	306	537	21	164	119	1	150	12	200	148
Ravalli	47,738	8,813	13,140	595	4,495	3,105	21	3,843	382	5,076	4,118
Richland	11,173	2,815	1,969	190	994	587	5	677	101	1,059	1,325
Rosebud	8,160	2,357	1,438	159	688	414	4	482	72	1,633	3,712
Silver Bow	36,360	7,295	7,097	493	3,440	2,042	16	2,364	348	5,634	3,643
Yellowstone	170,843	38,840	31,795	2,623	15,630	9,208	77	10,629	1,724	16,465	26,230

NEBRASKA

American Lung Association in Nebraska

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Douglas	23	1	0	8.2	F
Gage	DNC	DNC	DNC	DNC	DNC
Hall	DNC	DNC	DNC	DNC	DNC
Knox	18	1	0	6.5	F
Lancaster	2	0	0	0.7	B
Sarpy	DNC	DNC	DNC	DNC	DNC
Scotts Bluff	DNC	DNC	DNC	DNC	DNC
Washington	DNC	DNC	DNC	DNC	DNC

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
4	1	0	0	1.8	C	8.1	Pass
3	1	0	0	1.5	C	INC	INC
2	3	0	0	2.2	D	6.8	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	1	0	0	0.5	B	7.2	Pass
3	1	0	0	1.5	C	7.8	Pass
0	0	1	0	0.7	B	4.6	Pass
4	1	0	0	1.8	C	6.6	Pass

NEBRASKA

American Lung Association in Nebraska

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Douglas	589,540	147,751	85,827	6,067	37,699	22,671	312	30,480	7,658	66,643	196,737
Gage	21,634	4,879	4,877	200	1,393	1,030	11	1,461	220	2,198	1,520
Hall	62,197	16,992	9,935	698	3,833	2,457	33	3,356	708	6,595	24,148
Knox	8,298	2,023	2,137	83	514	410	4	595	75	1,121	1,254
Lancaster	326,716	72,610	51,559	2,982	21,606	12,927	173	17,514	4,418	33,770	69,022
Sarpy	199,886	51,804	26,484	2,127	12,698	7,481	106	9,940	2,557	9,803	44,497
Scotts Bluff	35,699	8,546	7,654	351	2,261	1,619	19	2,290	395	5,374	10,117
Washington	21,152	4,959	4,155	204	1,360	954	11	1,329	224	1,276	1,418

NEVADA

American Lung Association in Nevada

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Churchill	9	1	0	3.5	F
Clark	65	1	0	22.2	F
Douglas	DNC	DNC	DNC	DNC	DNC
Elko	7	1	0	2.8	D
Lyon	8	0	0	2.7	D
Washoe	24	2	0	9.0	F
White Pine	2	0	0	0.7	B
Carson City	9	0	0	3.0	D

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
8	3	0	0	4.2	F	8.7	Pass
8	25	6	0	19.2	F	8.4	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
8	14	12	1	18.5	F	9.7	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
13	14	8	1	17.5	F	7.5	Pass

NEVADA

American Lung Association in Nevada

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Churchill	25,803	5,886	5,062	421	1,744	1,468	11	1,570	225	2,736	7,399
Clark	2,336,573	511,912	380,462	36,621	160,644	126,738	966	134,643	23,693	297,404	1,434,103
Douglas	49,545	7,170	16,804	513	3,613	3,778	20	4,085	328	4,047	9,904
Elko	54,293	14,200	7,346	1,016	3,546	2,674	22	2,833	518	4,834	19,050
Lyon	62,583	12,885	13,823	922	4,329	3,803	26	4,074	526	5,991	18,197
Washoe	498,022	101,584	91,139	7,267	34,864	28,196	206	30,082	4,880	48,394	200,329
White Pine	8,522	1,719	1,807	123	593	513	4	549	65	959	2,382
Carson City	58,036	11,461	12,429	820	4,063	3,513	24	3,758	485	5,757	20,983

NEW HAMPSHIRE

American Lung Association in New Hampshire

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Belknap	0	0	0	0.0	A
Cheshire	1	0	0	0.3	B
Coos	4	0	0	1.3	C
Grafton	0	0	0	0.0	A
Hillsborough	2	0	0	0.7	B
Merrimack	1	0	0	0.3	B
Rockingham	4	0	0	1.3	C

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
2	0	0	0	0.7	B	4.8	Pass
3	0	0	0	1.0	C	7.0	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	5.1	Pass
4	0	0	0	1.3	C	3.9	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	5.6	Pass

NEW HAMPSHIRE

American Lung Association in New Hampshire

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Belknap	65,027	11,037	16,232	789	6,260	4,074	36	4,572	482	5,139	3,803
Cheshire	77,703	13,767	17,814	984	7,554	4,622	42	5,033	654	6,709	5,526
Coos	31,372	5,070	8,223	362	3,029	2,007	17	2,283	213	4,051	1,864
Grafton	93,146	14,179	22,235	1,013	9,341	5,670	51	6,185	821	8,045	9,778
Hillsborough	427,354	82,637	76,503	5,905	41,844	23,859	234	24,149	3,789	27,070	78,765
Merrimack	157,103	28,516	32,117	2,038	15,401	9,101	86	9,564	1,353	11,623	13,663
Rockingham	320,689	58,396	67,810	4,173	31,116	19,036	175	20,317	2,577	17,152	28,099

NEW JERSEY

American Lung Association in New Jersey

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Atlantic	0	0	0	0.0	A
Bergen	13	1	0	4.8	F
Camden	7	0	0	2.3	D
Cumberland	4	0	0	1.3	C
Essex	INC	INC	INC	INC	INC
Gloucester	11	1	0	4.2	F
Hudson	7	0	0	2.3	D
Hunterdon	5	1	0	2.2	D
Mercer	13	2	0	5.3	F
Middlesex	9	2	0	4.0	F
Monmouth	6	2	0	3.0	D
Morris	3	1	0	1.5	C
Ocean	10	0	0	3.3	F
Passaic	4	0	0	1.3	C
Union	DNC	DNC	DNC	DNC	DNC
Warren	0	0	0	0.0	A

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
3	2	1	0	2.7	D	6.7	Pass
2	3	0	0	2.2	D	8.5	Pass
4	2	1	0	3.0	D	9.8	Fail
3	1	1	0	2.2	D	INC	INC
INC	INC	INC	INC	INC	INC	INC	INC
0	2	0	0	1.0	C	7.4	Pass
1	3	1	0	2.5	D	7.8	Pass
1	3	1	0	2.5	D	8.1	Pass
3	3	1	0	3.2	D	INC	INC
3	3	1	0	3.2	D	8.4	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	1	0	0	0.8	B	6.1	Pass
5	1	1	0	2.8	D	7.4	Pass
INC	INC	INC	INC	INC	INC	INC	INC
2	3	1	0	2.8	D	9.4	Fail
2	4	0	0	2.7	D	8.4	Pass

NEW JERSEY

American Lung Association in New Jersey

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Atlantic	275,213	56,590	56,571	3,839	18,454	10,200	129	15,859	2,806	32,219	124,335
Bergen	957,736	198,334	179,022	13,453	64,310	34,486	449	52,774	10,170	62,866	460,757
Camden	527,196	119,354	89,335	8,096	34,386	17,699	247	26,770	5,933	64,241	246,915
Cumberland	152,326	37,110	24,690	2,517	9,711	4,951	72	7,462	1,541	24,394	88,843
Essex	851,117	198,853	125,156	13,488	55,132	27,203	398	40,256	9,924	117,764	603,125
Gloucester	308,423	65,192	53,605	4,422	20,545	10,653	144	16,127	3,423	25,292	78,955
Hudson	705,472	137,155	92,495	9,303	47,582	21,539	331	31,009	9,328	106,193	502,487
Hunterdon	130,183	24,726	28,277	1,677	8,957	5,105	61	7,975	1,242	6,126	24,766
Mercer	381,671	83,627	63,220	5,673	25,195	12,904	179	19,411	4,239	38,798	217,264
Middlesex	863,623	183,504	144,285	12,447	57,417	29,297	405	44,075	9,717	72,101	536,859
Monmouth	642,799	132,784	127,345	9,007	43,246	23,818	301	36,787	6,420	42,424	171,196
Morris	514,423	105,264	96,546	7,140	34,685	18,655	241	28,549	5,288	24,591	170,039
Ocean	659,197	164,894	151,535	11,185	41,476	24,413	309	39,090	5,834	65,276	115,858
Passaic	513,395	120,459	84,482	8,171	33,151	16,972	240	25,590	5,636	70,313	315,874
Union	572,726	133,643	89,297	9,065	37,178	18,828	268	28,126	6,294	50,389	363,120
Warren	111,252	21,390	22,536	1,451	7,617	4,198	52	6,489	1,106	9,107	27,812

NEW MEXICO

American Lung Association in New Mexico

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Bernalillo	29	1	0	10.2	F
Doña Ana	38	5	0	15.2	F
Eddy	70	2	0	24.3	F
Lea	12	1	0	4.5	F
Rio Arriba	2	0	0	0.7	B
Sandoval	4	0	0	1.3	C
San Juan	14	0	0	4.7	F
Santa Fe	2	0	0	0.7	B
Taos	DNC	DNC	DNC	DNC	DNC
Valencia	2	0	0	0.7	B

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
10	4	0	0	5.3	F	8.0	Pass
6	2	1	0	3.7	F	8.6	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	0	0	0	0.7	B	6.6	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	INC	INC
1	0	0	0	0.3	B	4.9	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC

NEW MEXICO

American Lung Association in New Mexico

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Bernalillo	671,586	133,049	126,639	9,504	53,038	25,715	203	43,624	6,983	89,525	414,492
Doña Ana	225,210	50,882	39,142	3,634	17,204	7,840	68	13,532	2,420	43,762	164,360
Eddy	60,275	15,891	9,104	1,135	4,409	2,000	18	3,394	587	9,810	34,092
Lea	72,101	20,738	8,619	1,481	5,155	2,129	22	3,625	721	11,871	49,724
Rio Arriba	39,876	8,888	9,052	635	3,003	1,659	12	2,798	343	7,359	34,048
Sandoval	155,936	33,287	31,878	2,378	11,999	6,232	47	10,495	1,479	18,196	91,273
San Juan	120,675	29,703	21,005	2,122	8,972	4,337	36	7,337	1,183	23,759	76,643
Santa Fe	155,956	24,194	45,205	1,728	12,579	7,599	47	12,853	1,310	18,759	84,597
Taos	34,405	5,277	10,764	377	2,760	1,761	10	2,969	266	6,340	20,305
Valencia	79,141	18,054	15,042	1,290	6,000	3,028	24	5,099	741	13,484	54,710

NEW YORK

American Lung Association in New York

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Albany	2	0	0	0.7	B
Bronx	13	0	0	4.3	F
Chautauqua	9	0	0	3.0	D
Dutchess	2	0	0	0.7	B
Erie	2	0	0	0.7	B
Essex	5	0	0	1.7	C
Hamilton	0	0	0	0.0	A
Jefferson	1	0	0	0.3	B
Kings	DNC	DNC	DNC	DNC	DNC
Monroe	2	0	0	0.7	B
New York	12	0	0	4.0	F
Niagara	2	0	0	0.7	B
Onondaga	2	0	0	0.7	B
Orange	INC	INC	INC	INC	INC
Oswego	1	0	0	0.3	B
Putnam	4	0	0	1.3	C
Queens	18	0	0	6.0	F
Richmond	9	0	0	3.0	D
Rockland	4	1	0	1.8	C
Saratoga	1	0	0	0.3	B
Steuben	1	0	0	0.3	B
Suffolk	28	1	0	9.8	F
Tompkins	1	0	0	0.3	B
Wayne	4	0	0	1.3	C
Westchester	8	1	0	3.2	D

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
4	3	0	0	2.8	D	6.8	Pass
0	4	1	0	2.7	D	7.9	Pass
1	0	0	0	0.3	B	6.7	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	0	0	0	1.0	C	7.7	Pass
0	0	0	0	0.0	A	4.0	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	1	0	0	0.5	B	8.0	Pass
2	3	0	0	2.2	D	7.2	Pass
1	1	0	0	0.8	B	7.8	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	3	1	0	2.8	D	6.1	Pass
1	0	0	0	0.3	B	6.6	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	4	1	0	3.3	F	8.1	Pass
2	0	0	0	0.7	B	8.3	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	4	1	0	3.7	F	5.9	Pass
0	0	0	0	0.0	A	7.0	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC

NEW YORK

American Lung Association in New York

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Albany	316,659	56,536	59,276	5,193	25,880	13,148	163	20,358	3,591	38,586	97,208
Bronx	1,356,476	324,773	207,403	29,833	103,208	51,037	697	77,966	14,782	367,107	1,233,915
Chautauqua	124,891	25,610	27,416	2,352	9,871	5,629	64	8,778	1,136	20,232	18,888
Dutchess	297,150	54,124	58,558	4,972	24,271	13,138	153	20,255	2,934	22,541	96,547
Erie	946,147	189,430	188,291	17,401	75,335	40,602	487	62,977	9,512	130,014	254,274
Essex	36,775	5,652	10,087	519	3,086	1,925	19	3,028	289	4,587	2,607
Hamilton	5,082	627	1,767	58	439	307	3	489	34	534	309
Jefferson	114,787	27,507	17,943	2,527	8,684	4,150	59	6,404	1,103	14,427	21,846
Kings	2,561,225	557,288	413,894	51,191	199,904	98,006	1,316	150,569	29,439	482,728	1,607,724
Monroe	748,482	150,962	144,644	13,867	59,504	31,600	385	48,947	7,729	95,055	233,144
New York	1,597,451	216,031	299,787	19,844	137,407	67,661	821	104,641	20,381	255,002	850,108
Niagara	209,457	41,366	44,893	3,800	16,741	9,462	108	14,701	1,939	28,300	34,648
Onondaga	467,873	97,236	90,044	8,932	36,918	19,684	241	30,483	4,783	61,032	117,436
Orange	407,470	104,208	61,204	9,572	30,387	15,264	210	23,260	4,023	50,244	168,428
Oswego	118,162	24,083	21,895	2,212	9,399	4,999	61	7,693	1,138	16,742	8,710
Putnam	98,060	18,967	19,472	1,742	7,914	4,403	51	6,773	885	7,076	27,811
Queens	2,252,196	430,689	422,104	39,562	181,958	96,420	1,159	148,390	23,223	307,761	1,712,219
Richmond	490,687	105,259	87,117	9,669	38,570	20,423	253	31,315	4,869	63,638	218,903
Rockland	340,807	101,965	54,364	9,366	23,844	12,441	176	19,154	3,066	50,990	132,622
Saratoga	238,711	45,085	49,297	4,141	19,327	10,775	123	16,657	2,252	17,032	26,767
Steuben	92,162	19,739	19,755	1,813	7,212	4,129	48	6,420	812	12,857	6,538
Suffolk	1,523,170	312,783	281,959	28,731	121,143	65,346	785	100,284	14,439	104,291	568,305
Tompkins	103,558	14,445	17,448	1,327	8,847	4,030	53	6,235	1,387	14,034	24,976
Wayne	90,829	18,894	19,540	1,736	7,170	4,121	47	6,398	785	9,922	10,436
Westchester	990,817	207,881	185,878	19,095	78,298	42,446	510	65,266	9,711	90,348	489,572

NORTH CAROLINA

American Lung Association in North Carolina

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Alexander	1	0	0	0.3	B
Avery	0	0	0	0.0	A
Buncombe	0	0	0	0.0	A
Caldwell	0	0	0	0.0	A
Carteret	2	0	0	0.7	B
Caswell	0	0	0	0.0	A
Catawba	DNC	DNC	DNC	DNC	DNC
Cumberland	1	0	0	0.3	B
Davidson	DNC	DNC	DNC	DNC	DNC
Durham	0	0	0	0.0	A
Edgecombe	0	0	0	0.0	A
Forsyth	3	0	0	1.0	C
Graham	7	0	0	2.3	D
Granville	2	0	0	0.7	B
Guilford	1	0	0	0.3	B
Haywood	4	0	0	1.3	C
Jackson	DNC	DNC	DNC	DNC	DNC
Johnston	1	0	0	0.3	B
Lenoir	2	0	0	0.7	B
Lincoln	1	0	0	0.3	B
Macon	0	0	0	0.0	A
Martin	0	0	0	0.0	A
Mecklenburg	8	0	0	2.7	D
Mitchell	DNC	DNC	DNC	DNC	DNC
Montgomery	0	0	0	0.0	A
New Hanover	0	0	0	0.0	A
Northampton	DNC	DNC	DNC	DNC	DNC
Person	1	0	0	0.3	B
Pitt	0	0	0	0.0	A
Rockingham	1	0	0	0.3	B
Rowan	1	0	0	0.3	B
Swain	1	0	0	0.3	B
Union	2	0	0	0.7	B
Wake	1	0	0	0.3	B
Yancey	0	0	0	0.0	A

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0	0.0	A	6.3	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	0	0	0	1.0	C	8.5	Pass
2	0	0	0	0.7	B	8.4	Pass
3	0	0	0	1.0	C	9.2	Fail
3	0	0	0	1.0	C	7.6	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
8	1	0	0	3.2	D	8.0	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	0	0	0	1.0	C	8.6	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
INC	INC	INC	INC	INC	INC	INC	INC
1	0	0	0	0.3	B	7.7	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
4	0	0	0	1.3	C	9.2	Fail
1	0	0	0	0.3	B	6.3	Pass
4	0	0	0	1.3	C	8.2	Pass
1	0	0	0	0.3	B	5.4	Pass
1	0	0	0	0.3	B	7.2	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	0	0	0	0.7	B	6.8	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	0	0	0	1.0	C	8.2	Pass
2	0	0	0	0.7	B	6.4	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
5	0	0	0	1.7	C	8.3	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC

NORTH CAROLINA

American Lung Association in North Carolina

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Alexander	36,473	7,132	7,554	820	2,943	2,183	21	3,180	330	4,350	5,350
Avery	17,561	2,550	4,248	293	1,512	1,152	10	1,674	152	2,469	2,195
Buncombe	275,901	48,293	60,275	5,550	22,827	16,780	161	23,990	3,043	34,611	50,204
Caldwell	80,574	15,754	17,365	1,810	6,516	4,922	47	7,216	757	10,843	11,885
Carteret	69,615	11,545	19,399	1,327	5,912	4,865	41	7,239	577	7,295	9,467
Caswell	22,807	4,238	5,356	487	1,873	1,445	13	2,114	189	3,564	8,862
Catawba	164,645	35,247	31,389	4,050	12,937	9,366	96	13,540	1,651	19,276	44,768
Cumberland	337,890	85,264	44,854	9,798	24,853	15,441	197	20,542	3,931	49,047	202,831
Davidson	174,804	37,458	33,888	4,305	13,745	10,038	102	14,573	1,734	24,163	41,498
Durham	336,892	65,434	50,717	7,519	26,769	17,039	196	23,009	4,422	33,994	192,197
Edgecombe	48,832	11,179	10,519	1,285	3,789	2,860	28	4,133	493	10,936	31,811
Forsyth	392,921	87,995	68,335	10,112	30,343	21,047	228	29,748	4,460	56,249	180,591
Graham	8,052	1,535	2,046	176	660	524	5	769	71	1,344	1,228
Granville	62,192	12,611	11,428	1,449	4,948	3,543	37	5,140	593	6,722	27,644
Guilford	549,866	119,813	89,625	13,768	42,648	28,732	319	40,161	6,629	77,550	294,931
Haywood	62,969	10,864	16,420	1,248	5,281	4,204	37	6,168	578	6,869	5,865
Jackson	44,574	7,292	9,174	838	3,720	2,607	26	3,620	528	6,787	9,261
Johnston	241,955	59,373	33,935	6,823	18,052	11,981	141	17,000	2,652	25,952	93,021
Lenoir	54,895	12,496	11,901	1,436	4,268	3,233	32	4,684	533	12,425	28,743
Lincoln	95,675	19,527	18,924	2,244	7,629	5,640	56	8,274	909	10,126	16,534
Macon	38,412	7,018	11,200	806	3,207	2,677	22	3,950	319	5,155	5,540
Martin	21,447	4,322	5,624	497	1,740	1,407	12	2,067	194	4,173	10,245
Mecklenburg	1,163,701	262,068	143,690	30,116	88,527	54,727	678	74,511	14,912	116,447	652,485
Mitchell	14,999	2,716	3,835	312	1,245	993	9	1,466	131	2,203	1,347
Montgomery	26,085	5,380	5,934	618	2,088	1,606	15	2,348	246	3,955	9,494
New Hanover	238,852	41,794	46,870	4,803	19,652	13,817	139	19,465	2,838	28,150	56,594
Northampton	16,715	2,957	5,096	340	1,409	1,200	10	1,782	131	3,395	10,064
Person	39,737	8,196	8,542	942	3,172	2,401	23	3,515	375	5,646	14,115
Pitt	175,119	37,244	26,398	4,280	13,606	8,709	102	11,754	2,326	32,930	84,429
Rockingham	92,518	18,702	20,123	2,149	7,426	5,637	54	8,262	883	12,424	27,058
Rowan	151,661	33,377	27,394	3,836	11,796	8,363	89	11,989	1,550	21,559	48,260
Swain	13,916	3,010	2,795	346	1,093	802	8	1,156	140	2,125	5,694
Union	256,452	64,733	35,466	7,439	18,970	12,757	150	18,383	2,730	21,166	84,702
Wake	1,190,275	270,737	159,366	31,112	90,615	58,185	694	81,028	14,339	85,051	510,380
Yancey	18,938	3,356	5,034	386	1,582	1,275	11	1,879	167	2,984	1,636

NORTH DAKOTA

American Lung Association in North Dakota

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Billings	4	0	0	1.3	C
Burke	5	0	0	1.7	C
Burleigh	7	0	0	2.3	D
Cass	3	0	0	1.0	C
Dunn	4	0	0	1.3	C
McKenzie	3	0	0	1.0	C
Mercer	4	0	0	1.3	C
Oliver	6	0	0	2.0	C
Ward	6	0	0	2.0	C

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
7	3	1	0	4.5	F	6.1	Pass
13	10	1	0	10.0	F	7.6	Pass
15	12	1	0	11.7	F	8.8	Pass
15	10	1	0	10.7	F	9.2	Fail
14	8	0	1	9.5	F	7.1	Pass
13	6	1	0	8.0	F	INC	INC
12	9	0	1	9.3	F	6.6	Pass
14	12	0	1	11.5	F	8.0	Pass
16	9	1	0	10.5	F	7.2	Pass

NORTH DAKOTA

American Lung Association in North Dakota

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Billings	1,034	222	261	14	80	48	1	79	10	108	84
Burke	2,134	535	494	35	157	95	1	156	19	192	188
Burleigh	100,012	23,179	18,506	1,508	7,755	4,073	53	6,436	1,184	7,402	13,278
Cass	196,362	43,407	25,873	2,824	15,929	6,943	104	10,384	2,846	18,222	35,045
Dunn	4,019	1,044	786	68	297	165	2	264	39	440	785
McKenzie	14,252	4,547	1,496	296	1,008	445	8	660	167	1,141	3,711
Mercer	8,309	1,938	1,933	126	626	379	4	620	80	663	707
Oliver	1,879	445	492	29	139	89	1	148	16	202	128
Ward	68,332	16,387	10,204	1,066	5,354	2,494	36	3,815	860	4,874	13,023

OHIO

American Lung Association in Ohio

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Allen	4	0	0	1.3	C
Ashtabula	9	0	0	3.0	D
Athens	DNC	DNC	DNC	DNC	DNC
Belmont	DNC	DNC	DNC	DNC	DNC
Butler	11	0	0	3.7	F
Clark	3	0	0	1.0	C
Clermont	3	0	0	1.0	C
Clinton	5	0	0	1.7	C
Cuyahoga	13	2	0	5.3	F
Delaware	1	0	0	0.3	B
Fayette	INC	INC	INC	INC	INC
Franklin	3	0	0	1.0	C
Geauga	3	0	0	1.0	C
Greene	5	0	0	1.7	C
Hamilton	17	2	0	6.7	F
Harrison	DNC	DNC	DNC	DNC	DNC
Jefferson	2	0	0	0.7	B
Knox	2	0	0	0.7	B
Lake	16	0	0	5.3	F
Lawrence	0	0	0	0.0	A
Licking	2	0	0	0.7	B
Lorain	1	0	0	0.3	B
Lucas	21	0	0	7.0	F
Madison	2	0	0	0.7	B
Mahoning	3	0	0	1.0	C
Medina	6	0	0	2.0	C
Miami	5	0	0	1.7	C
Montgomery	8	0	0	2.7	D
Noble	1	0	0	0.3	B
Portage	6	2	0	3.0	D
Preble	4	0	0	1.3	C
Scioto	DNC	DNC	DNC	DNC	DNC
Stark	8	0	0	2.7	D
Summit	8	0	0	2.7	D
Trumbull	3	1	0	1.5	C
Warren	10	0	0	3.3	F
Washington	0	0	0	0.0	A
Wood	4	0	0	1.3	C

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
3	3	0	0	2.5	D	7.5	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	1	0	0	0.5	B	6.1	Pass
0	1	0	0	0.5	B	7.8	Pass
8	4	0	0	4.7	F	11.2	Fail
4	3	0	0	2.8	D	8.8	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
6	3	1	0	4.2	F	12.2	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
6	3	1	0	4.2	F	9.3	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
6	2	0	0	3.0	D	10.1	Fail
INC	INC	INC	INC	INC	INC	INC	INC
2	1	2	0	2.5	D	10.0	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	2	0	0	1.3	C	7.2	Pass
2	2	0	0	1.7	C	7.9	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
INC	INC	INC	INC	INC	INC	INC	INC
1	1	0	0	0.8	B	9.4	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	2	1	0	2.7	D	INC	INC
4	2	1	0	3.0	D	7.4	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
4	3	0	0	2.8	D	9.0	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
INC	INC	INC	INC	INC	INC	INC	INC
5	2	1	0	3.3	F	8.0	Pass
4	2	0	0	2.3	D	7.7	Pass
6	1	2	0	3.8	F	9.4	Fail
3	2	1	0	2.7	D	8.6	Pass
7	2	1	0	4.0	F	8.7	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC

OHIO

American Lung Association in Ohio

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Allen	100,838	23,604	19,555	1,599	8,523	6,190	62	7,697	1,009	13,724	20,230
Ashtabula	96,845	21,061	19,969	1,426	8,378	6,329	60	7,899	884	16,603	11,620
Athens	62,706	9,037	9,631	612	5,936	3,507	39	4,184	900	13,648	6,701
Belmont	64,918	12,060	14,655	817	5,818	4,439	40	5,580	575	9,327	5,536
Butler	393,043	90,755	64,335	6,147	33,566	22,658	241	27,572	4,412	45,064	96,444
Clark	134,610	30,242	27,727	2,048	11,514	8,638	83	10,799	1,343	19,949	23,908
Clermont	211,972	46,229	40,271	3,131	18,365	13,311	130	16,452	2,162	18,649	17,160
Clinton	41,938	9,432	8,122	639	3,595	2,623	26	3,255	425	5,080	3,269
Cuyahoga	1,233,088	250,704	247,380	16,980	108,355	78,178	755	97,180	13,571	193,220	524,954
Delaware	231,636	56,566	35,858	3,831	19,572	13,520	142	16,353	2,483	11,360	46,454
Fayette	28,817	6,766	5,314	458	2,447	1,780	18	2,197	294	4,064	2,524
Franklin	1,326,063	306,699	179,213	20,773	113,480	69,674	814	82,862	16,622	195,004	548,099
Geauga	95,407	20,964	21,927	1,420	8,198	6,551	59	8,287	824	5,953	5,001
Greene	169,691	34,620	32,428	2,345	14,904	10,433	104	12,898	1,873	15,986	29,039
Hamilton	827,058	188,768	140,997	12,785	70,638	47,714	507	58,368	9,456	109,421	303,975
Harrison	14,159	2,913	3,277	197	1,239	983	9	1,242	130	2,011	819
Jefferson	64,026	12,462	14,672	844	5,666	4,360	39	5,501	639	9,884	6,854
Knox	63,320	14,395	12,635	975	5,394	3,949	39	4,924	647	6,835	3,478
Lake	231,640	44,026	51,878	2,982	20,673	15,836	142	19,895	2,281	23,146	33,500
Lawrence	56,118	11,982	11,163	812	4,890	3,640	34	4,519	569	9,382	3,297
Licking	183,201	41,512	32,774	2,812	15,732	11,192	112	13,748	1,926	17,281	26,211
Lorain	317,910	68,131	65,110	4,615	27,602	20,637	195	25,731	3,162	34,018	74,796
Lucas	425,484	96,339	77,039	6,525	36,432	25,587	261	31,506	4,661	75,810	140,928
Madison	44,602	8,762	7,548	593	3,996	2,755	28	3,345	406	3,714	5,990
Mahoning	225,596	45,617	51,997	3,090	19,749	15,243	138	19,275	2,191	42,602	56,560
Medina	184,042	38,831	37,648	2,630	16,088	12,172	113	15,152	1,775	13,795	13,857
Miami	110,876	25,246	22,034	1,710	9,463	7,016	68	8,735	1,097	10,565	10,496
Montgomery	533,796	117,960	101,018	7,990	45,907	32,498	327	40,221	5,822	79,116	169,376
Noble	14,311	2,747	4,346	186	1,257	1,135	9	1,480	98	1,733	929
Portage	162,665	29,230	30,494	1,980	14,767	10,199	100	12,525	1,910	20,077	20,349
Preble	40,556	8,961	8,429	607	3,494	2,664	25	3,329	386	4,192	1,824
Scioto	71,969	15,499	13,847	1,050	6,248	4,516	44	5,590	728	12,775	5,309
Stark	372,716	79,977	78,127	5,417	32,266	24,141	229	30,210	3,768	45,043	57,178
Summit	535,733	109,966	107,060	7,448	47,054	34,339	328	42,646	5,664	68,166	136,577
Trumbull	200,373	41,176	45,598	2,789	17,497	13,546	123	17,101	1,916	33,696	28,423
Warren	252,148	59,494	41,173	4,030	21,500	15,052	155	18,301	2,573	14,544	43,166
Washington	58,577	11,400	13,486	772	5,185	4,007	36	5,058	572	7,334	3,287
Wood	132,650	26,558	22,544	1,799	11,732	7,686	81	9,362	1,600	12,420	18,011

OKLAHOMA

American Lung Association in Oklahoma

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Adair	2	0	0	0.7	B
Canadian	12	0	0	4.0	F
Carter	INC	INC	INC	INC	INC
Cleveland	7	0	0	2.3	D
Comanche	6	0	0	2.0	C
Creek	6	0	0	2.0	C
Dewey	3	0	0	1.0	C
Jefferson	INC	INC	INC	INC	INC
Johnston	INC	INC	INC	INC	INC
Kay	DNC	DNC	DNC	DNC	DNC
Kiowa	INC	INC	INC	INC	INC
Love	INC	INC	INC	INC	INC
McClain	15	0	0	5.0	F
Mayes	3	0	0	1.0	C
Nowata	INC	INC	INC	INC	INC
Oklahoma	13	0	0	4.3	F
Osage	11	2	0	4.7	F
Ottawa	10	0	0	3.3	F
Pittsburg	10	0	0	3.3	F
Pontotoc	INC	INC	INC	INC	INC
Sequoyah	1	0	0	0.3	B
Tulsa	25	5	0	10.8	F
Washington	INC	INC	INC	INC	INC

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	1	0	0	0.8	B	7.4	Pass
3	0	0	0	1.0	C	9.3	Fail
1	0	0	0	0.3	B	7.1	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	6.9	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
6	1	0	0	2.5	D	9.0	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
INC	INC	INC	INC	INC	INC	INC	INC
2	0	0	0	0.7	B	9.1	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
14	4	0	0	6.7	F	INC	INC
6	0	0	0	2.0	C	8.2	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	8.1	Pass
5	1	0	0	2.2	D	8.8	Pass
INC	INC	INC	INC	INC	INC	INC	INC

OKLAHOMA

American Lung Association in Oklahoma

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Adair	19,627	5,270	3,135	516	1,627	1,150	12	1,511	208	4,480	11,842
Canadian	175,829	44,698	24,208	4,380	14,861	9,572	108	12,336	2,165	13,705	52,302
Carter	48,596	12,073	8,324	1,183	4,131	2,914	30	3,860	543	8,208	15,792
Cleveland	301,193	60,379	46,474	5,916	27,236	17,302	185	22,511	3,986	37,151	96,990
Comanche	121,574	28,859	17,249	2,828	10,491	6,577	75	8,513	1,419	21,799	55,117
Creek	73,332	16,997	13,781	1,665	6,369	4,657	45	6,223	780	11,405	19,202
Dewey	4,286	1,141	826	112	355	265	3	358	42	581	847
Jefferson	5,347	1,317	1,151	129	454	352	3	481	51	1,277	1,270
Johnston	10,216	2,365	1,945	232	886	639	6	858	112	1,953	3,397
Kay	43,641	10,799	8,557	1,058	3,703	2,702	27	3,658	459	8,006	12,336
Kiowa	8,398	2,032	1,785	199	718	553	5	754	82	1,795	2,369
Love	10,296	2,447	1,961	240	886	646	6	867	110	1,468	3,334
McClain	47,072	11,636	7,458	1,140	4,016	2,787	29	3,645	534	4,458	11,341
Mayes	39,889	9,330	7,608	914	3,453	2,537	25	3,400	424	6,652	14,808
Nowata	9,438	2,203	1,862	216	818	615	6	826	96	1,628	3,322
Oklahoma	808,866	203,852	119,648	19,974	68,477	44,759	497	58,298	10,001	127,113	382,919
Osage	46,130	9,589	10,132	940	4,121	3,159	28	4,300	457	6,328	17,112
Ottawa	30,287	7,750	5,457	759	2,545	1,814	19	2,428	327	6,322	11,391
Pittsburg	43,479	9,923	8,792	972	3,786	2,799	27	3,787	431	7,603	14,022
Pontotoc	38,396	9,676	6,641	948	3,244	2,258	24	3,005	442	5,238	14,373
Sequoyah	40,291	9,652	7,582	946	3,464	2,559	25	3,423	425	8,866	15,797
Tulsa	682,868	169,744	105,691	16,632	58,065	38,746	420	50,717	8,233	101,475	288,317
Washington	53,706	12,945	10,884	1,268	4,593	3,382	33	4,597	570	7,954	15,802

OREGON

American Lung Association in Oregon

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Clackamas	4	1	0	1.8	C
Columbia	1	0	0	0.3	B
Crook	DNC	DNC	DNC	DNC	DNC
Deschutes	DNC	DNC	DNC	DNC	DNC
Harney	DNC	DNC	DNC	DNC	DNC
Jackson	3	0	0	1.0	C
Josephine	DNC	DNC	DNC	DNC	DNC
Klamath	DNC	DNC	DNC	DNC	DNC
Lake	DNC	DNC	DNC	DNC	DNC
Lane	1	0	0	0.3	B
Marion	4	0	0	1.3	C
Multnomah	2	0	0	0.7	B
Umatilla	1	0	0	0.3	B
Washington	0	0	0	0.0	A

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
8	6	0	0	5.7	F	7.5	Pass
INC	INC	INC	INC	INC	INC	INC	INC
8	4	0	0	4.7	F	10.0	Fail
5	14	5	0	12.0	F	10.5	Fail
9	7	4	0	9.2	F	10.2	Fail
21	25	2	0	20.8	F	12.0	Fail
9	2	0	0	4.0	F	9.1	Fail
21	29	10	10	36.5	F	14.4	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	1	0	0	1.2	C	6.7	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	1	0	0	1.2	C	6.6	Pass

OREGON

American Lung Association in Oregon

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Clackamas	423,173	86,933	86,560	6,042	39,990	23,179	177	29,252	3,562	29,176	91,582
Columbia	53,880	10,849	11,260	754	5,122	3,014	23	3,803	429	5,248	7,608
Crook	26,952	5,254	6,951	365	2,566	1,628	11	2,130	199	3,416	3,469
Deschutes	208,513	38,766	45,403	2,694	20,144	11,736	87	14,949	1,776	17,944	30,889
Harney	7,440	1,465	2,027	102	704	455	3	603	51	1,111	1,084
Jackson	220,768	44,562	52,660	3,097	20,824	12,588	92	16,378	1,792	27,404	48,532
Josephine	87,821	16,852	24,339	1,171	8,368	5,446	37	7,219	625	13,041	13,616
Klamath	70,003	15,165	15,989	1,054	6,487	3,887	29	5,034	546	13,321	16,689
Lake	8,293	1,667	2,129	116	784	502	3	656	53	1,317	1,557
Lane	381,181	65,661	81,956	4,563	37,332	20,889	159	26,719	3,537	54,725	78,370
Marion	346,741	80,631	59,193	5,604	31,645	16,914	145	21,011	3,059	47,544	131,988
Multnomah	789,698	136,429	120,183	9,482	77,908	38,833	330	46,890	8,424	99,712	264,489
Umatilla	80,053	19,425	13,339	1,350	7,212	3,840	34	4,762	642	12,500	29,847
Washington	598,865	126,504	91,767	8,792	56,355	28,925	250	35,114	5,746	48,317	233,724

PENNSYLVANIA

American Lung Association in Pennsylvania

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Adams	4	0	0	1.3	C
Allegheny	6	1	0	2.5	D
Armstrong	6	0	0	2.0	C
Beaver	3	0	0	1.0	C
Berks	13	0	0	4.3	F
Blair	2	0	0	0.7	B
Bradford	1	0	0	0.3	B
Bucks	16	1	0	5.8	F
Cambria	1	0	0	0.3	B
Centre	2	0	0	0.7	B
Chester	3	0	0	1.0	C
Clearfield	INC	INC	INC	INC	INC
Cumberland	DNC	DNC	DNC	DNC	DNC
Dauphin	8	0	0	2.7	D
Delaware	7	0	0	2.3	D
Elk	1	0	0	0.3	B
Erie	3	0	0	1.0	C
Fayette	2	0	0	0.7	B
Franklin	2	0	0	0.7	B
Greene	2	0	0	0.7	B
Indiana	4	0	0	1.3	C
Lackawanna	3	0	0	1.0	C
Lancaster	3	0	0	1.0	C
Lawrence	3	0	0	1.0	C
Lebanon	4	0	0	1.3	C
Lehigh	1	0	0	0.3	B
Luzerne	INC	INC	INC	INC	INC
Lycoming	3	0	0	1.0	C
Mercer	5	0	0	1.7	C
Monroe	3	0	0	1.0	C
Montgomery	6	0	0	2.0	C
Northampton	4	1	0	1.8	C
Philadelphia	16	2	0	6.3	F
Somerset	0	0	0	0.0	A
Susquehanna	DNC	DNC	DNC	DNC	DNC
Tioga	0	0	0	0.0	A
Washington	3	0	0	1.0	C
Westmoreland	1	0	0	0.3	B
Wyoming	DNC	DNC	DNC	DNC	DNC
York	2	0	0	0.7	B

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
6	3	1	0	4.2	F	8.7	Pass
26	3	1	0	10.8	F	11.6	Fail
2	2	1	0	2.3	D	8.3	Pass
5	0	2	0	3.0	D	8.8	Pass
2	3	2	0	3.5	F	8.3	Pass
2	4	1	0	3.3	F	7.9	Pass
1	0	0	0	0.3	B	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	3	0	0	1.8	C	8.8	Pass
2	5	0	0	3.2	D	7.6	Pass
3	2	2	0	3.3	F	8.1	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
5	2	2	0	4.0	F	7.8	Pass
5	3	2	0	4.5	F	9.8	Fail
3	2	2	0	3.3	F	8.5	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	3	0	0	1.8	C	INC	INC
1	0	0	0	0.3	B	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	INC	INC
4	2	1	0	3.0	D	7.3	Pass
2	4	1	0	3.3	F	7.5	Pass
15	4	1	1	8.5	F	9.5	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
4	3	2	0	4.2	F	8.4	Pass
0	5	0	1	3.3	F	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	INC	INC
3	2	0	0	2.0	C	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	3	2	0	3.5	F	8.1	Pass
3	4	0	1	3.8	F	8.3	Pass
7	4	1	1	5.8	F	10.0	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	INC	INC
1	0	0	0	0.3	B	INC	INC
6	1	2	0	3.8	F	9.0	Pass
1	0	0	0	0.3	B	INC	INC
1	0	0	0	0.3	B	INC	INC
4	3	1	0	3.5	F	9.3	Fail

PENNSYLVANIA

American Lung Association in Pennsylvania

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Adams	106,748	20,487	23,904	2,032	8,760	6,751	57	9,899	947	9,485	12,911
Allegheny	1,224,825	226,158	254,947	22,429	102,122	74,462	652	106,710	12,505	137,660	284,276
Armstrong	64,074	12,053	15,796	1,195	5,249	4,237	34	6,366	525	7,512	2,339
Beaver	165,631	31,791	38,555	3,153	13,564	10,601	88	15,704	1,451	17,014	20,018
Berks	432,821	94,177	79,873	9,340	34,671	25,150	231	35,348	4,199	50,100	142,390
Blair	120,273	24,008	26,630	2,381	9,782	7,497	64	10,985	1,086	16,835	7,684
Bradford	59,695	13,194	13,704	1,309	4,706	3,719	32	5,543	493	8,189	2,809
Bucks	645,984	127,508	137,710	12,646	52,686	40,506	344	58,766	5,751	42,929	120,302
Cambria	130,668	24,985	32,112	2,478	10,683	8,497	70	12,765	1,112	16,576	11,855
Centre	157,795	22,922	25,891	2,273	13,997	9,032	85	11,965	1,807	23,648	24,506
Chester	549,784	119,592	101,244	11,861	44,009	32,157	293	45,198	5,291	33,085	127,918
Clearfield	77,090	14,170	17,430	1,405	6,381	4,974	41	7,296	616	11,254	4,742
Cumberland	270,738	55,072	52,515	5,462	22,084	15,956	144	22,590	2,700	21,063	52,086
Dauphin	289,234	64,271	53,618	6,374	23,040	16,650	154	23,453	2,870	36,562	112,333
Delaware	576,720	126,232	103,693	12,519	46,206	33,012	307	46,081	5,905	60,085	213,940
Elk	30,198	5,762	7,416	571	2,464	2,004	16	3,010	232	2,988	968
Erie	267,571	54,886	54,370	5,443	21,722	16,017	143	22,975	2,568	36,783	45,838
Fayette	123,915	23,360	28,839	2,317	10,187	7,991	66	11,825	1,055	22,787	11,147
Franklin	157,854	34,496	32,571	3,421	12,557	9,513	84	13,773	1,441	12,729	23,004
Greene	34,357	6,417	7,390	636	2,844	2,154	18	3,119	291	4,880	2,436
Indiana	83,094	14,854	17,482	1,473	6,981	5,067	44	7,267	850	12,709	5,967
Lackawanna	216,123	44,107	45,269	4,374	17,530	13,150	115	19,014	2,041	33,535	41,988
Lancaster	558,589	127,940	112,749	12,689	43,953	32,546	298	46,971	5,306	46,567	111,949
Lawrence	84,472	16,745	20,172	1,661	6,853	5,415	45	8,092	729	11,209	8,024
Lebanon	144,252	32,290	29,944	3,202	11,399	8,612	77	12,506	1,316	12,219	30,659
Lehigh	377,754	83,731	68,317	8,304	30,139	21,645	201	30,293	3,765	44,748	153,783
Luzerne	327,388	66,543	66,598	6,599	26,606	19,850	175	28,483	3,013	51,977	85,350
Lycoming	112,724	22,853	23,837	2,266	9,160	6,859	60	9,936	1,063	13,762	12,088
Mercer	108,503	20,454	25,728	2,029	8,919	6,994	58	10,399	939	12,920	11,215
Monroe	166,053	31,246	33,856	3,099	13,728	10,401	89	14,878	1,510	15,684	63,434
Montgomery	868,742	183,193	168,332	18,168	70,048	51,589	463	73,278	8,412	58,209	238,410
Northampton	319,091	60,437	66,409	5,994	26,394	19,606	170	28,164	3,064	29,639	87,359
Philadelphia	1,550,542	324,477	235,398	32,180	127,049	83,258	824	110,525	18,640	304,389	1,023,238
Somerset	72,197	12,995	17,700	1,289	5,982	4,779	39	7,149	548	8,149	4,095
Susquehanna	38,109	7,103	9,914	704	3,120	2,565	20	3,906	292	4,509	1,969
Tioga	40,840	7,958	9,791	789	3,327	2,630	22	3,930	350	5,091	1,821
Washington	210,232	41,042	47,424	4,070	17,167	13,310	112	19,576	1,869	19,620	18,860
Westmoreland	351,163	63,299	87,503	6,278	29,070	23,319	187	35,039	2,941	37,249	25,921
Wyoming	25,902	4,943	6,013	490	2,124	1,660	14	2,456	226	3,417	1,459
York	464,640	100,940	89,418	10,011	37,141	27,491	248	39,073	4,334	38,942	93,615

PUERTO RICO

American Lung Association in Puerto Rico

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Adjuntas	DNC	DNC	DNC	DNC	DNC
Bayamón	0	0	0	0.0	A
Caguas	DNC	DNC	DNC	DNC	DNC
Cataño	INC	INC	INC	INC	INC
Fajardo	DNC	DNC	DNC	DNC	DNC
Guayama	DNC	DNC	DNC	DNC	DNC
Guaynabo	DNC	DNC	DNC	DNC	DNC
Mayagüez	0	0	0	0.0	A
Ponce	DNC	DNC	DNC	DNC	DNC

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
INC	INC	INC	INC	INC	INC	INC	INC
0	0	0	0	0.0	A	6.7	Pass
0	0	0	0	0.0	A	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0	0.0	A	INC	INC
INC	INC	INC	INC	INC	INC	INC	INC
0	0	0	0	0.0	A	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0	0.0	A	INC	INC

PUERTO RICO

American Lung Association in Puerto Rico

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Adjuntas	17,900	2,945	4,204	472	1,801	786	3	1,584	107	11,107	56
Bayamón	180,835	27,017	45,194	4,333	18,414	8,017	27	16,077	950	61,516	1,641
Caguas	124,608	19,031	28,789	3,052	12,538	5,441	18	10,848	727	46,022	1,407
Cataño	22,108	3,553	5,593	570	2,209	966	3	1,954	119	10,066	218
Fajardo	31,166	5,042	7,555	809	3,130	1,367	5	2,762	178	13,114	188
Guayama	34,765	5,603	7,415	899	3,497	1,491	5	2,858	193	16,414	174
Guaynabo	89,039	11,901	23,596	1,909	9,335	4,096	13	8,353	485	21,393	889
Mayagüez	69,798	10,611	18,873	1,702	7,394	3,193	10	6,274	401	37,469	534
Ponce	130,251	21,642	33,887	3,471	13,194	5,776	19	11,716	689	66,952	699

RHODE ISLAND

American Lung Association in Rhode Island

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Kent	4	0	0	1.3	C
Providence	7	0	0	2.3	D
Washington	12	1	0	4.5	F

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
3	0	0	0	1.0	C	4.9	Pass
3	0	0	0	1.0	C	7.7	Pass
4	0	0	0	1.3	C	5.1	Pass

RHODE ISLAND

American Lung Association in Rhode Island

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Kent	171,278	30,557	35,957	2,608	17,359	9,758	96	12,730	1,423	15,274	26,476
Providence	660,615	131,950	111,084	11,260	65,594	33,297	369	42,422	6,178	80,793	279,234
Washington	129,982	19,503	31,550	1,664	13,506	7,879	73	10,505	1,080	11,250	13,150

SOUTH CAROLINA

American Lung Association in South Carolina

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Aiken	0	0	0	0.0	A
Anderson	0	0	0	0.0	A
Berkeley	2	0	0	0.7	B
Charleston	0	0	0	0.0	A
Chesterfield	0	0	0	0.0	A
Darlington	0	0	0	0.0	A
Edgefield	0	0	0	0.0	A
Florence	DNC	DNC	DNC	DNC	DNC
Greenville	1	0	0	0.3	B
Horry	0	0	0	0.0	A
Lexington	DNC	DNC	DNC	DNC	DNC
Richland	4	0	0	1.3	C
Spartanburg	3	0	0	1.0	C
York	3	0	0	1.0	C

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0	0.0	A	INC	INC
1	0	0	0	0.3	B	6.8	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0	0.0	A	8.1	Pass
1	0	0	0	0.3	B	7.7	Pass
2	0	0	0	0.7	B	8.4	Pass
INC	INC	INC	INC	INC	INC	INC	INC
1	0	0	0	0.3	B	INC	INC
2	0	0	0	0.7	B	7.4	Pass
2	0	0	0	0.7	B	8.4	Pass
1	0	0	0	0.3	B	7.5	Pass

SOUTH CAROLINA

American Lung Association in South Carolina

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases			Lung Cancer	CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD					
Aiken	177,130	38,104	37,638	2,569	12,298	10,927	93	14,842	1,780	24,516	63,330
Anderson	213,076	47,938	39,704	3,232	14,627	12,520	112	16,816	2,229	28,239	51,554
Berkeley	255,217	59,484	38,856	4,010	17,188	13,676	135	17,952	2,852	24,616	98,568
Charleston	424,367	81,669	78,368	5,506	30,062	24,913	224	33,140	4,914	45,722	143,272
Chesterfield	44,031	9,792	8,639	660	3,046	2,668	23	3,607	430	8,818	18,301
Darlington	62,416	13,895	12,541	937	4,300	3,771	33	5,103	657	13,658	29,049
Edgefield	27,607	4,567	5,677	308	2,038	1,755	15	2,361	245	4,264	11,485
Florence	137,214	32,289	25,047	2,177	9,271	7,886	72	10,573	1,499	25,245	69,316
Greenville	558,036	127,137	95,536	8,571	37,960	31,389	295	41,718	6,179	61,870	188,663
Horry	397,478	66,411	107,430	4,477	29,517	28,340	210	39,315	3,589	50,083	91,047
Lexington	309,528	70,740	54,364	4,769	21,142	17,778	163	23,748	3,285	34,255	90,124
Richland	425,138	91,073	61,710	6,140	29,096	22,332	224	28,964	5,400	63,343	256,494
Spartanburg	356,698	83,262	58,315	5,613	24,100	19,712	188	26,106	3,923	48,674	121,794
York	298,320	69,973	47,392	4,717	20,231	16,570	158	21,949	3,303	28,093	98,193

SOUTH DAKOTA

American Lung Association in South Dakota

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Brookings	6	0	0	2.0	C
Brown	DNC	DNC	DNC	DNC	DNC
Clay	INC	INC	INC	INC	INC
Codington	11	0	0	3.7	F
Custer	1	1	0	0.8	B
Hughes	DNC	DNC	DNC	DNC	DNC
Jackson	1	0	0	0.3	B
Meade	8	0	0	2.7	D
Minnehaha	23	1	0	8.2	F
Pennington	DNC	DNC	DNC	DNC	DNC
Union	INC	INC	INC	INC	INC

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
5	3	1	0	3.8	F	5.6	Pass
7	3	1	0	4.5	F	6.0	Pass
INC	INC	INC	INC	INC	INC	INC	INC
6	3	1	0	4.2	F	8.5	Pass
6	2	1	0	3.7	F	4.6	Pass
3	4	2	0	4.3	F	3.6	Pass
2	5	2	0	4.5	F	5.6	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
4	5	0	0	3.8	F	INC	INC
6	4	1	0	4.7	F	7.8	Pass
INC	INC	INC	INC	INC	INC	INC	INC

SOUTH DAKOTA

American Lung Association in South Dakota

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Brookings	35,980	7,467	5,048	519	2,544	1,447	19	2,066	553	3,659	4,554
Brown	37,733	8,849	7,082	615	2,849	1,805	20	2,611	472	3,680	5,663
Clay	15,431	2,668	1,988	185	1,107	603	8	857	286	2,266	2,113
Codington	28,971	6,533	5,890	454	2,248	1,462	15	2,118	335	3,243	2,678
Custer	9,117	1,267	3,161	88	843	663	5	967	76	763	956
Hughes	17,624	4,288	3,329	298	1,338	849	9	1,231	217	1,455	3,458
Jackson	2,776	977	379	68	176	105	1	151	30	814	1,737
Meade	30,954	6,408	5,434	445	2,370	1,445	16	2,085	392	2,363	4,295
Minnehaha	206,930	52,235	29,185	3,628	15,011	8,541	107	12,320	2,704	19,711	43,173
Pennington	115,903	25,374	23,722	1,762	9,071	5,893	60	8,539	1,330	13,052	24,087
Union	17,183	4,082	3,394	283	1,326	854	9	1,238	198	970	1,822

TENNESSEE

American Lung Association in Tennessee

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Anderson	1	0	0	0.3	B
Blount	6	0	0	2.0	C
Claiborne	2	0	0	0.7	B
Davidson	6	0	0	2.0	C
DeKalb	0	0	0	0.0	A
Dyer	DNC	DNC	DNC	DNC	DNC
Hamilton	3	0	0	1.0	C
Jefferson	2	0	0	0.7	B
Knox	0	0	0	0.0	A
Lawrence	DNC	DNC	DNC	DNC	DNC
Loudon	0	0	0	0.0	A
McMinn	DNC	DNC	DNC	DNC	DNC
Madison	DNC	DNC	DNC	DNC	DNC
Maur	DNC	DNC	DNC	DNC	DNC
Montgomery	DNC	DNC	DNC	DNC	DNC
Putnam	DNC	DNC	DNC	DNC	DNC
Roane	DNC	DNC	DNC	DNC	DNC
Sevier	2	0	0	0.7	B
Shelby	21	2	0	8.0	F
Sullivan	0	0	0	0.0	A
Sumner	9	0	0	3.0	D
Williamson	4	0	0	1.3	C
Wilson	5	0	0	1.7	C

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
5	0	0	0	1.7	C	7.4	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	0	0	0	1.0	C	9.6	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	0	0	0	0.7	B	7.7	Pass
2	0	0	0	0.7	B	8.4	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
6	0	0	0	2.0	C	9.1	Fail
0	0	0	0	0.0	A	6.8	Pass
1	0	0	0	0.3	B	6.9	Pass
2	0	0	0	0.7	B	7.8	Pass
2	0	0	0	0.7	B	8.1	Pass
1	0	0	0	0.3	B	7.3	Pass
2	0	0	0	0.7	B	7.2	Pass
1	0	0	0	0.3	B	7.2	Pass
2	1	0	0	1.2	C	7.3	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	0	0	0	0.0	A	8.9	Pass
2	0	0	0	0.7	B	6.7	Pass
1	0	0	0	0.3	B	7.6	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC

TENNESSEE

American Lung Association in Tennessee

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Anderson	80,234	16,840	16,165	1,640	6,951	6,721	50	7,951	845	11,386	10,042
Blount	141,456	27,869	30,401	2,714	12,452	12,332	88	14,716	1,454	13,528	15,096
Claiborne	32,654	6,230	6,721	607	2,898	2,807	20	3,321	351	5,818	1,861
Davidson	712,334	145,337	95,020	14,155	62,304	50,749	442	55,736	10,109	85,007	323,504
DeKalb	21,225	4,568	4,034	445	1,829	1,773	13	2,086	218	3,408	2,703
Dyer	36,498	8,805	6,521	858	3,040	2,870	23	3,354	402	6,368	8,196
Hamilton	379,864	80,074	71,134	7,799	32,876	30,583	236	35,690	4,414	47,922	115,769
Jefferson	57,838	11,090	12,105	1,080	5,130	5,080	36	6,040	591	7,279	5,388
Knox	500,669	104,121	82,873	10,141	43,533	38,648	311	44,146	6,205	67,213	99,972
Lawrence	46,114	11,562	8,170	1,126	3,794	3,608	29	4,223	478	6,770	3,453
Loudon	60,591	11,318	17,024	1,102	5,378	5,802	38	7,210	517	6,316	8,756
McMinn	55,678	11,849	11,441	1,154	4,806	4,713	35	5,601	581	8,141	6,573
Madison	99,193	22,186	18,285	2,161	8,447	7,895	61	9,220	1,137	17,629	46,064
Maury	110,760	25,217	19,670	2,456	9,387	8,691	69	10,101	1,257	11,685	25,548
Montgomery	239,872	63,729	24,720	6,207	19,384	15,175	149	16,249	3,160	29,603	97,042
Putnam	83,844	17,394	14,021	1,694	7,291	6,432	52	7,346	995	13,884	12,043
Roane	56,096	10,539	13,363	1,026	4,989	5,119	35	6,201	543	7,448	4,684
Sevier	99,415	20,634	20,860	2,010	8,639	8,554	62	10,195	1,005	12,045	14,174
Shelby	910,042	231,052	139,302	22,503	74,584	66,442	563	75,799	10,988	163,297	609,321
Sullivan	162,135	30,752	36,430	2,995	14,394	14,395	101	17,271	1,656	21,649	12,932
Sumner	207,994	47,358	35,517	4,612	17,649	16,416	129	19,013	2,336	18,409	41,623
Williamson	264,460	67,157	40,744	6,541	21,724	20,417	164	23,528	2,877	12,845	46,754
Wilson	163,674	37,990	26,449	3,700	13,817	12,694	102	14,598	1,855	10,673	32,304

TEXAS

American Lung Association in Texas

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Atascosa	DNC	DNC	DNC	DNC	DNC
Bell	12	0	0	4.0	F
Bexar	32	0	0	10.7	F
Bowie	DNC	DNC	DNC	DNC	DNC
Brazoria	35	2	0	12.7	F
Brazos	DNC	DNC	DNC	DNC	DNC
Brewster	1	0	0	0.3	B
Cameron	1	0	0	0.3	B
Collin	33	3	0	12.5	F
Culberson	INC	INC	INC	INC	INC
Dallas	45	2	0	16.0	F
Denton	63	9	0	25.5	F
Ector	DNC	DNC	DNC	DNC	DNC
Ellis	3	0	0	1.0	C
El Paso	42	0	0	14.0	F
Galveston	27	3	0	10.5	F
Gregg	2	1	0	1.2	C
Harris	71	21	1	34.8	F
Harrison	2	0	0	0.7	B
Hidalgo	1	0	0	0.3	B
Hood	23	0	0	7.7	F
Hunt	2	0	0	0.7	B
Jefferson	14	0	0	4.7	F
Johnson	27	1	0	9.5	F
Kaufman	11	0	0	3.7	F
Kleberg	DNC	DNC	DNC	DNC	DNC
Lubbock	DNC	DNC	DNC	DNC	DNC
McLennan	7	0	0	2.3	D
Maverick	DNC	DNC	DNC	DNC	DNC
Montgomery	16	1	0	5.8	F
Navarro	1	0	0	0.3	B
Nueces	4	0	0	1.3	C
Orange	2	0	0	0.7	B
Parker	22	0	0	7.3	F
Polk	0	0	0	0.0	A
Potter	DNC	DNC	DNC	DNC	DNC
Randall	8	0	0	2.7	D
Rockwall	0	0	0	0.0	A
Smith	10	0	0	3.3	F
Tarrant	52	7	1	21.5	F
Travis	17	0	0	5.7	F
Victoria	0	0	0	0.0	A
Webb	3	0	0	1.0	C

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
2	0	0	0	0.7	B	9.0	Pass
0	0	0	0	0.0	A	7.3	Pass
2	0	0	0	0.7	B	8.9	Pass
2	0	0	0	0.7	B	10.3	Fail
INC	INC	INC	INC	INC	INC	INC	INC
0	0	0	0	0.0	A	7.9	Pass
1	0	0	0	0.3	B	INC	INC
7	0	0	0	2.3	D	10.9	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	0	0	0	0.3	B	9.9	Fail
1	0	0	0	0.3	B	7.7	Pass
0	0	0	0	0.0	A	7.3	Pass
INC	INC	INC	INC	INC	INC	INC	INC
1	0	0	0	0.3	B	9.0	Pass
1	0	0	0	0.3	B	8.3	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
4	0	0	0	1.3	C	12.5	Fail
3	2	0	0	2.0	C	9.5	Fail
4	0	0	0	1.3	C	9.6	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	1	0	0	1.2	C	8.8	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
INC	INC	INC	INC	INC	INC	INC	INC
5	0	0	0	1.7	C	9.9	Fail
2	1	0	0	1.2	C	5.7	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	0	0	0	0.7	B	7.9	Pass
1	0	0	0	0.3	B	INC	INC
INC	INC	INC	INC	INC	INC	INC	INC
1	0	0	0	0.3	B	8.4	Pass
1	0	0	0	0.3	B	8.3	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	0	0	0	1.0	C	6.0	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	0	0	0	1.0	C	9.6	Fail
2	0	0	0	0.7	B	9.6	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	0	0	0	1.0	C	9.7	Fail

TEXAS

American Lung Association in Texas

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Atascosa	51,784	13,776	7,812	1,037	3,253	2,010	22	3,092	602	9,468	35,721
Bell	393,193	107,999	47,818	8,131	23,963	13,510	168	20,266	5,052	44,369	224,642
Bexar	2,087,679	510,639	273,263	38,446	133,156	76,581	891	115,628	27,102	301,255	1,531,649
Bowie	91,687	21,746	16,221	1,637	6,025	3,887	39	6,033	1,014	12,857	35,400
Brazoria	398,938	101,544	52,042	7,645	25,285	14,841	170	22,584	4,909	36,476	233,478
Brazos	244,703	49,477	26,002	3,725	16,018	8,043	105	11,601	3,849	52,926	112,090
Brewster	9,513	1,607	2,292	121	688	481	4	758	107	1,233	4,699
Cameron	426,710	120,413	61,905	9,066	26,095	15,878	182	24,302	4,992	99,161	388,270
Collin	1,195,359	291,387	142,320	21,939	76,750	43,964	510	66,627	15,442	75,716	598,755
Culberson	2,196	521	433	39	145	98	1	153	21	448	1,662
Dallas	2,606,358	645,638	317,636	48,610	165,385	93,581	1,112	140,880	34,226	354,670	1,913,958
Denton	1,007,703	231,932	120,688	17,462	65,705	37,306	430	56,368	13,452	60,723	474,566
Ector	164,494	50,301	16,473	3,787	9,547	5,152	70	7,649	1,992	18,966	118,317
Ellis	222,829	58,582	29,218	4,411	13,983	8,263	95	12,597	2,753	16,224	107,228
El Paso	869,880	223,607	117,006	16,835	54,651	31,851	371	48,230	10,763	157,986	773,227
Galveston	361,744	84,684	58,751	6,376	23,830	14,998	154	23,194	4,295	41,008	163,516
Gregg	126,243	32,477	20,557	2,445	8,030	5,041	54	7,771	1,489	19,723	56,407
Harris	4,835,125	1,239,210	586,125	93,301	303,648	172,540	2,063	260,118	62,795	764,979	3,529,941
Harrison	70,895	17,004	12,705	1,280	4,649	3,021	30	4,696	821	11,735	27,372
Hidalgo	898,471	274,020	106,589	20,631	52,661	30,095	383	45,359	11,031	239,489	843,534
Hood	67,774	13,788	17,530	1,038	4,772	3,547	29	5,658	657	5,455	12,522
Hunt	113,347	27,979	17,498	2,107	7,305	4,506	48	6,929	1,360	13,951	39,448
Jefferson	251,496	61,829	40,050	4,655	16,239	10,102	108	15,553	2,763	47,706	159,577
Johnson	202,906	52,074	28,653	3,921	12,866	7,747	87	11,852	2,406	19,799	72,333
Kaufman	185,690	53,451	19,347	4,024	11,107	6,091	79	9,099	2,441	17,588	99,079
Kleberg	30,069	7,202	4,149	542	1,910	1,077	13	1,607	409	6,341	23,761
Lubbock	320,940	74,957	43,685	5,644	20,628	11,708	137	17,552	4,432	52,974	154,171
McLennan	268,583	64,148	41,797	4,830	17,352	10,487	114	15,995	3,458	43,162	121,464
Maverick	57,762	17,819	6,891	1,342	3,371	1,934	25	2,918	681	13,047	56,091
Montgomery	711,354	183,341	99,841	13,804	45,120	27,259	303	41,777	8,565	71,419	292,967
Navarro	55,635	14,873	9,263	1,120	3,511	2,252	24	3,493	619	8,526	27,181
Nueces	352,289	83,141	57,765	6,260	23,031	14,359	150	22,105	4,251	59,695	247,875
Orange	85,722	21,966	14,023	1,654	5,482	3,477	37	5,381	978	12,295	19,106
Parker	173,494	42,478	28,026	3,198	11,303	7,179	74	11,134	1,952	14,141	35,352
Polk	54,186	11,127	10,265	838	3,757	2,509	23	3,938	489	9,090	15,518
Potter	114,647	30,535	16,643	2,299	7,160	4,328	49	6,615	1,306	19,265	65,549
Randall	148,255	35,123	23,864	2,644	9,651	5,950	63	9,129	1,836	12,644	49,325
Rockwall	131,307	34,701	16,728	2,613	8,237	4,861	56	7,417	1,591	6,600	49,741
Smith	245,209	58,935	43,372	4,437	16,008	10,279	104	15,919	2,942	31,655	102,942
Tarrant	2,182,947	547,594	276,400	41,229	138,502	79,901	930	120,970	28,337	236,391	1,262,658
Travis	1,334,961	263,112	152,219	19,810	89,634	48,279	572	71,667	19,125	133,858	695,488
Victoria	91,664	22,941	16,078	1,727	5,901	3,787	39	5,862	1,070	12,747	52,154
Webb	269,148	83,126	28,470	6,259	15,642	8,679	115	12,998	3,282	59,745	258,642

UTAH

American Lung Association in Utah

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Box Elder	4	0	0	1.3	C
Cache	2	1	0	1.2	C
Carbon	4	0	0	1.3	C
Davis	37	2	0	13.3	F
Duchesne	28	10	1	15.0	F
Garfield	INC	INC	INC	INC	INC
Grand	INC	INC	INC	INC	INC
Iron	2	0	0	0.7	B
Salt Lake	65	8	0	25.7	F
San Juan	2	0	0	0.7	B
Tooele	12	0	0	4.0	F
Uintah	39	19	3	24.5	F
Utah	18	0	0	6.0	F
Washington	1	1	0	0.8	B
Weber	17	0	0	5.7	F

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
INC	INC	INC	INC	INC	INC	INC	INC
18	5	0	0	8.5	F	7.9	Pass
0	0	0	0	0.0	A	INC	INC
13	0	0	0	4.3	F	7.3	Pass
14	1	0	0	5.2	F	7.0	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
INC	INC	INC	INC	INC	INC	INC	INC
2	1	0	0	1.2	C	5.7	Pass
19	4	0	0	8.3	F	9.3	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
10	2	0	0	4.3	F	6.4	Pass
4	1	0	0	1.8	C	6.3	Pass
11	0	0	0	3.7	F	7.0	Pass
1	1	0	0	0.8	B	5.1	Pass
10	0	0	0	3.3	F	6.7	Pass

UTAH

American Lung Association in Utah

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Box Elder	62,684	18,839	8,255	1,161	4,839	1,687	15	2,884	738	5,272	8,739
Cache	142,393	41,019	14,682	2,528	11,263	3,522	35	5,662	2,039	14,667	25,297
Carbon	20,609	5,180	4,021	319	1,688	647	5	1,197	237	2,853	3,600
Davis	373,207	109,915	42,481	6,774	29,155	9,778	92	16,136	4,736	22,191	72,172
Duchesne	20,477	6,472	2,818	399	1,543	549	5	954	232	2,513	3,020
Garfield	5,314	1,177	1,262	73	450	182	1	350	53	521	703
Grand	9,706	1,984	2,027	122	845	324	2	601	118	1,018	2,150
Iron	64,211	17,084	9,040	1,053	5,204	1,773	16	3,045	851	7,283	10,506
Salt Lake	1,185,813	292,797	146,590	18,045	98,862	33,184	291	54,967	15,875	110,632	382,865
San Juan	14,358	3,991	2,268	246	1,139	420	4	743	162	2,651	7,703
Tooele	82,051	25,121	7,727	1,548	6,322	2,059	20	3,276	1,056	5,573	17,782
Uintah	37,747	11,500	4,783	709	2,899	1,002	9	1,700	456	4,165	6,947
Utah	719,174	223,925	58,010	13,801	55,200	16,620	177	25,543	10,168	63,310	154,280
Washington	202,452	48,734	45,347	3,003	16,757	6,603	50	12,628	2,233	21,205	36,606
Weber	271,926	70,898	34,556	4,369	22,232	7,566	67	12,664	3,499	22,794	69,128

VERMONT

American Lung Association in Vermont

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Bennington	1	0	0	0.3	B
Chittenden	1	0	0	0.3	B
Rutland	0	0	0	0.0	A

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
6	1	0	0	2.5	D	5.4	Pass
5	1	0	0	2.2	D	6.4	Pass
3	0	0	0	1.0	C	6.7	Pass

VERMONT

American Lung Association in Vermont

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Bennington	37,183	6,821	9,402	522	3,434	2,094	20	2,570	254	4,272	2,823
Chittenden	169,481	28,587	29,744	2,190	15,811	7,991	89	9,285	1,607	12,459	22,670
Rutland	60,271	10,337	15,271	792	5,643	3,410	32	4,179	408	6,900	3,365

VIRGINIA

American Lung Association in Virginia

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Albemarle	0	0	0	0.0	A
Arlington	7	0	0	2.3	D
Caroline	2	0	0	0.7	B
Charles City	0	0	0	0.0	A
Chesterfield	1	0	0	0.3	B
Fairfax	7	0	0	2.3	D
Fauquier	2	0	0	0.7	B
Frederick	2	0	0	0.7	B
Giles	1	0	0	0.3	B
Hanover	1	0	0	0.3	B
Henrico	1	0	0	0.3	B
Loudoun	5	0	0	1.7	C
Madison	1	0	0	0.3	B
Prince Edward	0	0	0	0.0	A
Prince William	4	0	0	1.3	C
Roanoke	0	0	0	0.0	A
Rockbridge	0	0	0	0.0	A
Rockingham	1	0	0	0.3	B
Stafford	2	1	0	1.2	C
Wythe	0	0	0	0.0	A
Bristol City	DNC	DNC	DNC	DNC	DNC
Hampton City	0	0	0	0.0	A
Lynchburg City	DNC	DNC	DNC	DNC	DNC
Norfolk City	DNC	DNC	DNC	DNC	DNC
Richmond City	DNC	DNC	DNC	DNC	DNC
Salem City	DNC	DNC	DNC	DNC	DNC
Suffolk City	2	0	0	0.7	B
Virginia Beach City	DNC	DNC	DNC	DNC	DNC

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
4	2	0	0	2.3	D	7.1	Pass
0	2	0	0	1.0	C	7.9	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	0	0	0	1.0	C	6.7	Pass
1	0	0	0	0.3	B	6.9	Pass
5	2	1	0	3.3	F	8.5	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
4	3	0	0	2.8	D	7.8	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
4	1	0	0	1.8	C	7.6	Pass
1	2	0	0	1.3	C	7.3	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
4	1	0	0	1.8	C	7.1	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	1	0	0	1.2	C	7.4	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	0	0	0	0.7	B	7.3	Pass
1	1	0	0	0.8	B	6.9	Pass
2	0	0	0	0.7	B	6.7	Pass
0	0	0	0	0.0	A	7.1	Pass
3	2	0	0	2.0	C	8.1	Pass
1	0	0	0	0.3	B	7.2	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	1	0	0	0.5	B	7.3	Pass

VIRGINIA

American Lung Association in Virginia

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Albemarle	115,676	22,094	24,602	1,737	9,599	6,737	56	9,550	1,250	8,610	29,423
Arlington	234,162	42,055	29,077	3,306	19,160	11,534	114	14,865	3,110	16,535	95,152
Caroline	32,640	7,436	5,673	585	2,583	1,764	16	2,452	320	2,993	12,649
Charles City	6,610	953	1,809	75	597	461	3	681	51	748	3,589
Chesterfield	383,876	90,352	63,434	7,103	30,001	20,224	186	27,907	4,077	26,042	166,304
Fairfax	1,141,878	257,792	177,855	20,266	90,143	59,773	556	81,609	12,135	69,309	597,071
Fauquier	75,165	17,416	13,440	1,369	5,953	4,144	37	5,811	703	4,570	18,891
Frederick	95,994	21,439	18,557	1,685	7,686	5,406	47	7,642	908	7,040	21,587
Giles	16,457	3,226	3,654	254	1,377	1,008	8	1,453	146	1,835	967
Hanover	114,148	24,439	22,514	1,921	9,272	6,570	56	9,315	1,074	5,891	21,006
Henrico	334,760	72,241	58,689	5,679	26,828	18,172	162	25,172	3,636	30,898	166,980
Loudoun	436,347	113,954	49,711	8,958	32,684	20,636	213	27,217	4,772	17,860	212,530
Madison	14,128	2,777	3,356	218	1,185	883	7	1,286	126	1,409	2,301
Prince Edward	22,049	3,517	3,788	276	1,858	1,183	11	1,590	260	4,430	8,696
Prince William	489,640	128,216	57,805	10,079	36,545	23,008	239	30,361	5,293	32,529	302,454
Roanoke	97,026	18,712	21,875	1,471	8,122	5,906	47	8,505	936	6,804	16,521
Rockbridge	22,358	3,670	6,320	289	1,965	1,525	11	2,269	185	2,480	2,032
Rockingham	86,568	19,113	17,765	1,503	6,956	4,944	42	7,040	840	8,476	13,306
Stafford	165,428	43,026	19,491	3,382	12,368	7,769	81	10,240	1,756	8,608	77,799
Wythe	28,104	5,454	6,375	429	2,360	1,736	14	2,510	251	3,757	1,937
Bristol City	16,807	3,356	3,797	264	1,394	1,015	8	1,463	159	3,601	2,238
Hampton City	137,098	29,512	23,421	2,320	10,916	7,235	66	9,922	1,541	17,827	88,616
Lynchburg City	79,535	15,519	11,538	1,220	6,359	3,872	38	5,066	1,102	13,198	30,319
Norfolk City	230,930	46,629	31,305	3,666	18,370	11,201	113	14,613	2,750	38,185	134,075
Richmond City	229,247	39,809	33,293	3,129	18,916	11,646	111	15,291	3,147	38,475	130,899
Salem City	25,600	4,999	5,170	393	2,112	1,470	12	2,071	274	2,459	4,634
Suffolk City	100,659	23,582	15,699	1,854	7,856	5,213	49	7,124	1,058	11,033	53,990
Virginia Beach City	453,649	98,433	74,911	7,738	36,116	23,941	220	32,775	4,919	38,630	183,519

WASHINGTON

American Lung Association in Washington

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Benton	3	0	0	1.0	C
Clallam	0	0	0	0.0	A
Clark	0	1	0	0.5	B
Columbia	0	0	0	0.0	A
King	12	2	0	5.0	F
Kitsap	DNC	DNC	DNC	DNC	DNC
Kittitas	DNC	DNC	DNC	DNC	DNC
Okanogan	DNC	DNC	DNC	DNC	DNC
Pierce	0	0	0	0.0	A
Skagit	0	0	0	0.0	A
Snohomish	DNC	DNC	DNC	DNC	DNC
Spokane	3	0	0	1.0	C
Stevens	DNC	DNC	DNC	DNC	DNC
Thurston	INC	INC	INC	INC	INC
Whatcom	0	0	0	0.0	A
Yakima	DNC	DNC	DNC	DNC	DNC

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
4	1	0	0	1.8	C	6.6	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
10	2	0	0	4.3	F	8.3	Pass
5	0	0	0	1.7	C	5.5	Pass
5	3	2	0	4.5	F	6.6	Pass
18	8	5	0	13.3	F	12.3	Fail
8	5	0	0	5.2	F	7.3	Pass
2	1	0	0	1.2	C	INC	INC
18	7	3	1	12.3	F	8.2	Pass
6	9	1	1	8.0	F	8.1	Pass
14	12	2	0	12.0	F	10.1	Fail
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
4	2	0	0	2.3	D	INC	INC
13	15	3	0	13.8	F	10.2	Fail

WASHINGTON

American Lung Association in Washington

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Benton	215,219	55,701	34,934	4,072	17,116	7,065	101	11,003	2,091	23,890	74,506
Clallam	77,616	12,334	25,603	902	6,937	3,743	37	6,495	574	9,120	14,312
Clark	521,150	115,802	89,049	8,465	43,527	18,304	245	28,462	5,257	38,572	138,400
Columbia	4,053	728	1,180	53	354	183	2	312	32	546	688
King	2,271,380	434,851	329,254	31,787	197,458	75,587	1,069	113,475	25,763	197,703	1,050,595
Kitsap	277,658	53,588	56,397	3,917	23,996	10,462	131	16,727	2,569	23,273	72,442
Kittitas	45,508	7,903	8,642	578	4,030	1,670	21	2,630	491	6,869	8,038
Okanogan	43,712	9,507	10,420	695	3,655	1,754	21	2,901	354	7,229	15,621
Pierce	928,696	211,883	141,379	15,488	77,015	30,669	437	46,828	9,687	89,696	351,945
Skagit	131,417	27,014	30,591	1,975	11,159	5,237	62	8,605	1,172	12,671	36,010
Snohomish	844,761	184,346	129,207	13,475	71,002	28,539	398	43,455	8,751	73,606	315,377
Spokane	551,455	117,592	98,180	8,596	46,534	19,468	259	30,504	5,601	67,235	99,581
Stevens	48,837	10,151	12,667	742	4,131	2,080	23	3,477	380	5,791	6,818
Thurston	299,003	61,434	57,785	4,491	25,459	10,982	141	17,438	3,040	29,265	86,531
Whatcom	231,919	42,135	44,643	3,080	20,328	8,491	109	13,433	2,542	29,187	54,112
Yakima	256,643	73,483	37,805	5,371	19,664	7,921	121	12,204	2,502	40,910	154,962

WEST VIRGINIA

American Lung Association in West Virginia

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Berkeley	4	0	0	1.3	C
Brooke	DNC	DNC	DNC	DNC	DNC
Cabell	0	0	0	0.0	A
Gilmer	INC	INC	INC	INC	INC
Greenbrier	0	0	0	0.0	A
Hancock	4	0	0	1.3	C
Harrison	DNC	DNC	DNC	DNC	DNC
Kanawha	0	0	0	0.0	A
Marion	DNC	DNC	DNC	DNC	DNC
Marshall	DNC	DNC	DNC	DNC	DNC
Monongalia	1	0	0	0.3	B
Ohio	3	0	0	1.0	C
Tucker	0	0	0	0.0	A
Wood	3	0	0	1.0	C

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
1	1	0	0	0.8	B	9.1	Fail
1	1	0	0	0.8	B	8.7	Pass
1	0	0	0	0.3	B	7.6	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	1	0	0	0.8	B	8.3	Pass
0	1	0	0	0.5	B	7.5	Pass
0	1	0	0	0.5	B	8.1	Pass
0	1	0	0	0.5	B	INC	INC
2	1	1	0	1.8	C	8.9	Pass
0	1	0	0	0.5	B	7.7	Pass
1	1	0	0	0.8	B	8.3	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
0	1	0	0	0.5	B	8.1	Pass

WEST VIRGINIA

American Lung Association in West Virginia

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Berkeley	132,440	30,454	20,592	2,867	14,378	11,883	99	12,634	1,348	14,758	26,061
Brooke	21,373	3,633	5,495	342	2,468	2,354	16	2,681	181	2,910	1,195
Cabell	92,082	18,223	18,487	1,716	10,230	8,725	69	9,651	979	17,413	9,852
Gilmer	7,254	1,107	1,348	104	856	702	6	760	51	1,477	1,486
Greenbrier	32,149	6,188	8,112	583	3,616	3,472	24	3,957	274	5,769	2,415
Hancock	28,145	5,162	7,010	486	3,210	3,069	21	3,480	238	3,933	2,046
Harrison	64,639	13,638	13,527	1,284	7,139	6,440	48	7,146	594	9,135	4,501
Kanawha	174,805	34,395	39,460	3,238	19,578	17,936	131	20,113	1,635	26,860	22,699
Marion	55,807	11,048	11,428	1,040	6,227	5,428	42	6,008	553	7,962	4,309
Marshall	29,405	5,494	7,187	517	3,340	3,171	22	3,588	240	4,309	1,286
Monongalia	107,718	17,291	15,092	1,628	12,512	9,059	81	9,437	1,365	18,255	14,025
Ohio	41,194	8,038	9,555	757	4,599	4,203	31	4,744	386	5,689	3,644
Tucker	6,604	942	1,888	89	790	787	5	905	53	1,137	209
Wood	83,052	17,296	18,279	1,628	9,201	8,469	62	9,464	744	11,200	4,643

WISCONSIN

American Lung Association in Wisconsin

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Ashland	1	0	0	0.3	B
Brown	8	0	0	2.7	D
Columbia	16	2	0	6.3	F
Dane	18	1	0	6.5	F
Dodge	15	0	0	5.0	F
Door	14	1	0	5.2	F
Eau Claire	8	0	0	2.7	D
Fond du Lac	5	0	0	1.7	C
Forest	4	0	0	1.3	C
Grant	DNC	DNC	DNC	DNC	DNC
Jackson	DNC	DNC	DNC	DNC	DNC
Jefferson	16	0	0	5.3	F
Kenosha	33	4	0	13.0	F
Kewaunee	11	3	0	5.2	F
La Crosse	6	1	0	2.5	D
Manitowoc	9	3	0	4.5	F
Marathon	8	1	0	3.2	D
Milwaukee	23	2	0	8.7	F
Monroe	DNC	DNC	DNC	DNC	DNC
Outagamie	8	0	0	2.7	D
Ozaukee	23	2	1	9.3	F
Racine	24	3	0	9.5	F
Rock	20	2	0	7.7	F
Sauk	13	2	0	5.3	F
Sheboygan	24	2	1	9.7	F
Taylor	5	0	0	1.7	C
Vilas	6	0	0	2.0	C
Walworth	21	0	0	7.0	F
Waukesha	21	0	0	7.0	F

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
6	1	0	0	2.5	D	5.4	Pass
7	5	0	0	4.8	F	7.7	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
6	1	3	0	4.5	F	8.7	Pass
4	2	2	0	3.7	F	7.7	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
10	5	0	0	5.8	F	7.9	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
8	4	0	0	4.7	F	5.9	Pass
4	2	1	0	3.0	D	8.6	Pass
5	2	0	0	2.7	D	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
1	2	1	0	2.0	C	7.6	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
2	5	0	0	3.2	D	7.8	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
INC	INC	INC	INC	INC	INC	INC	INC
6	1	2	0	3.8	F	9.2	Fail
4	2	0	0	2.3	D	INC	INC
7	5	0	0	4.8	F	8.1	Pass
3	2	1	0	2.7	D	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
5	2	1	0	3.3	F	7.5	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
5	7	0	0	5.2	F	6.8	Pass
7	2	0	0	3.3	F	5.5	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
5	1	2	0	3.5	F	9.1	Fail

WISCONSIN

American Lung Association in Wisconsin

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Ashland	16,079	3,325	3,624	205	1,380	809	8	1,286	145	2,185	2,863
Brown	271,417	61,506	45,825	3,788	22,889	12,031	142	18,355	2,822	25,827	59,214
Columbia	58,091	11,715	11,792	722	5,040	2,873	30	4,495	528	4,496	5,128
Dane	575,347	111,383	89,584	6,861	50,669	24,438	300	36,410	6,992	56,180	132,826
Dodge	88,231	16,855	17,213	1,038	7,769	4,337	46	6,730	777	7,118	10,548
Door	30,562	4,714	10,207	290	2,759	1,888	16	3,160	221	2,654	2,290
Eau Claire	107,903	21,116	18,868	1,301	9,448	4,729	56	7,177	1,271	11,136	12,203
Fond du Lac	103,948	21,702	21,168	1,337	8,928	5,033	54	7,881	1,008	9,301	13,593
Forest	9,325	1,822	2,422	112	809	514	5	834	72	1,452	1,846
Grant	51,409	10,873	9,749	670	4,403	2,333	27	3,605	494	6,609	3,192
Jackson	20,855	4,417	4,467	272	1,782	1,034	11	1,633	165	2,479	2,923
Jefferson	85,743	16,578	16,543	1,021	7,527	4,145	45	6,420	867	7,607	10,571
Kenosha	167,488	35,829	27,739	2,207	14,379	7,600	87	11,553	1,753	18,389	45,518
Kewaunee	20,690	4,280	4,739	264	1,776	1,064	11	1,696	176	1,785	1,492
La Crosse	120,486	23,093	22,316	1,422	10,591	5,460	63	8,365	1,397	14,068	14,339
Manitowoc	81,331	16,250	18,868	1,001	7,041	4,226	42	6,745	702	7,436	9,771
Marathon	138,612	30,980	27,302	1,908	11,692	6,586	72	10,291	1,292	13,122	18,268
Milwaukee	916,205	215,270	139,123	13,259	76,546	37,953	477	56,910	10,635	153,720	472,541
Monroe	46,151	11,665	8,516	718	3,750	2,096	24	3,262	415	5,848	5,099
Outagamie	193,234	43,816	33,166	2,699	16,290	8,670	101	13,269	1,937	11,991	28,111
Ozaukee	93,460	19,366	20,870	1,193	8,021	4,714	49	7,486	845	4,403	9,540
Racine	196,613	44,050	36,578	2,713	16,602	9,171	103	14,211	1,901	20,528	60,331
Rock	164,278	36,388	30,234	2,241	13,922	7,632	86	11,799	1,624	18,138	31,667
Sauk	65,920	14,542	13,589	896	5,573	3,182	34	5,004	609	6,097	7,313
Sheboygan	117,752	25,055	23,936	1,543	10,063	5,698	61	8,928	1,088	10,197	21,989
Taylor	20,058	4,594	4,412	283	1,675	1,009	10	1,608	163	2,254	1,087
Vilas	23,885	3,825	7,756	236	2,146	1,490	12	2,486	150	2,941	3,269
Walworth	105,822	20,174	21,892	1,243	9,298	5,199	55	8,129	1,038	10,790	16,604
Waukesha	412,591	85,573	86,963	5,271	35,480	20,508	215	32,295	3,836	22,694	57,432

WYOMING

American Lung Association in Wyoming

HIGH OZONE DAYS 2021–2023

County	Orange	Red	Purple	Wgt. Avg.	Grade
Albany	9	1	0	3.5	F
Big Horn	1	0	0	0.3	B
Campbell	10	0	0	3.3	F
Converse	3	0	0	1.0	C
Fremont	7	0	0	2.3	D
Johnson	7	0	0	2.3	D
Laramie	10	0	0	3.3	F
Lincoln	3	0	0	1.0	C
Natrona	4	0	0	1.3	C
Park	DNC	DNC	DNC	DNC	DNC
Sheridan	DNC	DNC	DNC	DNC	DNC
Sublette	11	0	0	3.7	F
Sweetwater	12	0	0	4.0	F
Teton	1	0	0	0.3	B
Weston	0	0	0	0.0	A

HIGH PARTICLE POLLUTION DAYS 2021–2023

24-Hour						Annual	
Orange	Red	Purple	Maroon	Wgt. Avg.	Grade	Design Value	Pass/Fail
2	0	0	0	0.7	B	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
12	1	0	0	4.5	F	INC	INC
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
3	0	0	0	1.0	C	2.1	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC
4	1	0	0	1.8	C	5.2	Pass
2	0	0	0	0.7	B	INC	INC
3	0	0	0	1.0	C	3.7	Pass
1	0	0	0	0.3	B	4.5	Pass
2	1	0	0	1.2	C	7.0	Pass
3	0	0	0	1.0	C	3.7	Pass
1	0	0	0	0.3	B	INC	INC
10	0	0	0	3.3	F	4.0	Pass
DNC	DNC	DNC	DNC	DNC	DNC	DNC	DNC

WYOMING

American Lung Association in Wyoming

AT-RISK GROUPS

County	Total Population	Under 18	65 & Over	Lung Diseases				CV Disease	Pregnancies	Poverty	People of Color
				Pediatric Asthma	Adult Asthma	COPD	Lung Cancer				
Albany	38,257	5,761	5,287	387	3,297	2,008	13	2,145	545	5,922	7,104
Big Horn	12,018	2,838	2,657	191	918	719	4	887	107	1,479	1,621
Campbell	47,498	12,477	6,560	838	3,557	2,406	17	2,716	505	3,987	6,748
Converse	13,809	3,306	2,625	222	1,058	791	5	948	133	1,422	1,674
Fremont	39,815	9,665	8,164	649	3,024	2,300	14	2,793	370	5,248	11,888
Johnson	8,759	1,737	2,437	117	697	589	3	754	73	730	768
Laramie	100,984	22,278	17,994	1,496	7,941	5,666	35	6,634	1,048	9,587	22,718
Lincoln	20,880	5,171	4,257	347	1,578	1,219	7	1,487	188	1,450	1,891
Natrona	79,941	18,562	14,209	1,247	6,191	4,443	28	5,218	849	8,266	11,587
Park	30,735	6,241	7,882	419	2,438	1,984	11	2,498	277	2,930	2,968
Sheridan	32,519	6,710	7,575	451	2,581	2,033	11	2,512	306	2,993	2,973
Sublette	8,969	1,909	2,196	128	704	570	3	713	80	681	1,066
Sweetwater	41,249	10,087	6,463	678	3,155	2,197	14	2,527	440	4,056	8,814
Teton	23,232	3,892	4,304	261	1,954	1,393	8	1,627	256	1,429	4,690
Weston	6,808	1,265	1,585	85	555	434	2	535	54	710	794