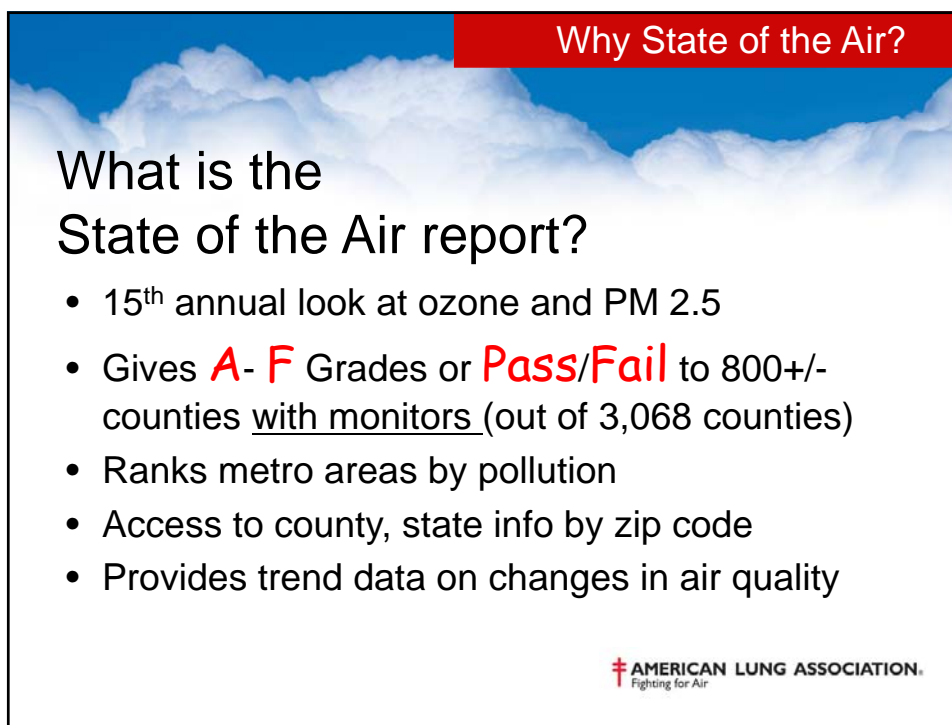




STATE OF THE AIR 2014 |  **AMERICAN LUNG ASSOCIATION®**

Janice E. Nolen
American Lung Association
www.Lung.org @lungassociation


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Why State of the Air?

What is the State of the Air report?

- 15th annual look at ozone and PM 2.5
- Gives **A- F** Grades or **Pass/Fail** to 800+/- counties with monitors (out of 3,068 counties)
- Ranks metro areas by pollution
- Access to county, state info by zip code
- Provides trend data on changes in air quality

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Why State of the Air?

What State of the Air Does



- Puts air pollution into everyday language
- Gives public local information
- Focuses attention on ozone and particle pollution

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Where we get the data

States Collect Air Pollution Data in 2010, 2011 & 2012

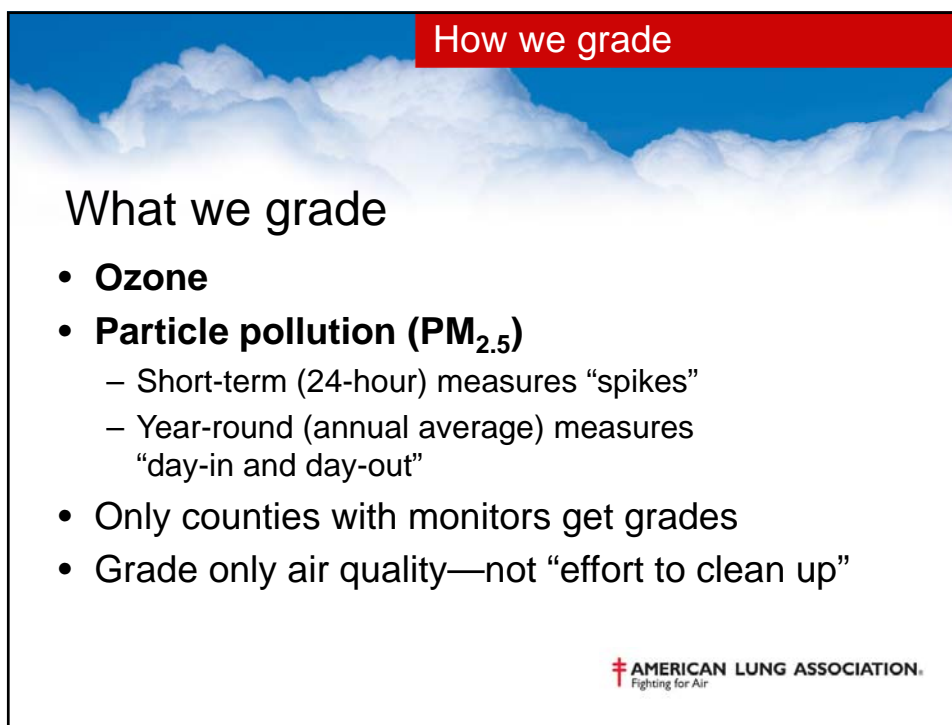
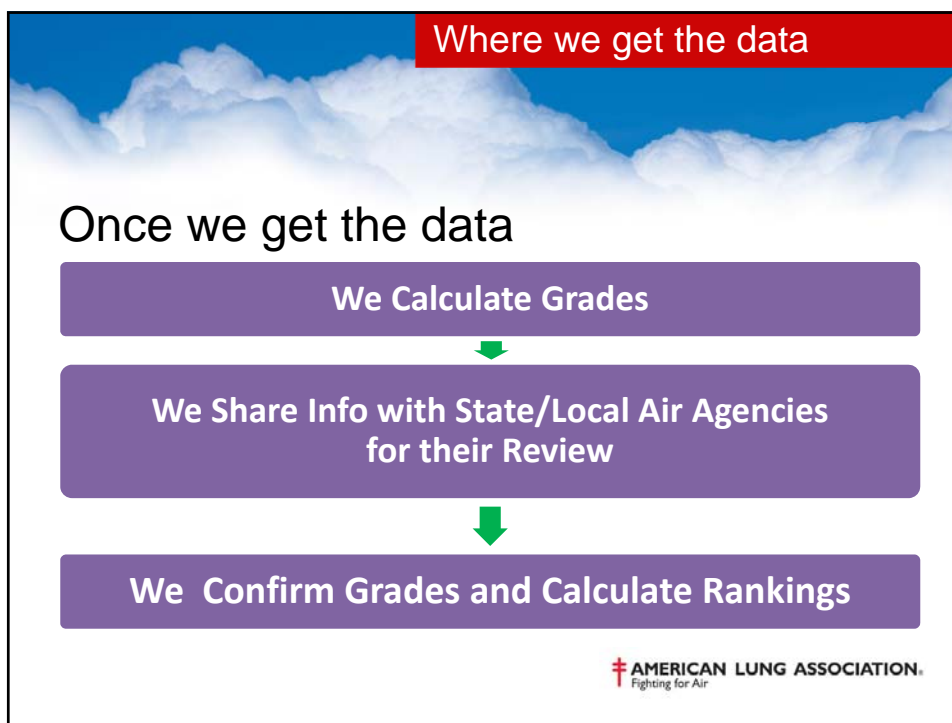


EPA Reviews & Posts Data Online



Our Consultant Downloads the Data from EPA for Us

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How we grade

Grades Based on the Air Quality Index



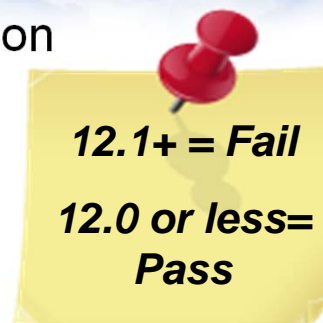
- Used for grading ozone & 24-hour PM 2.5
- EPA yardstick translates monitored pollution levels into recommendations for action
- Grades based on weighted averages = **A- F**

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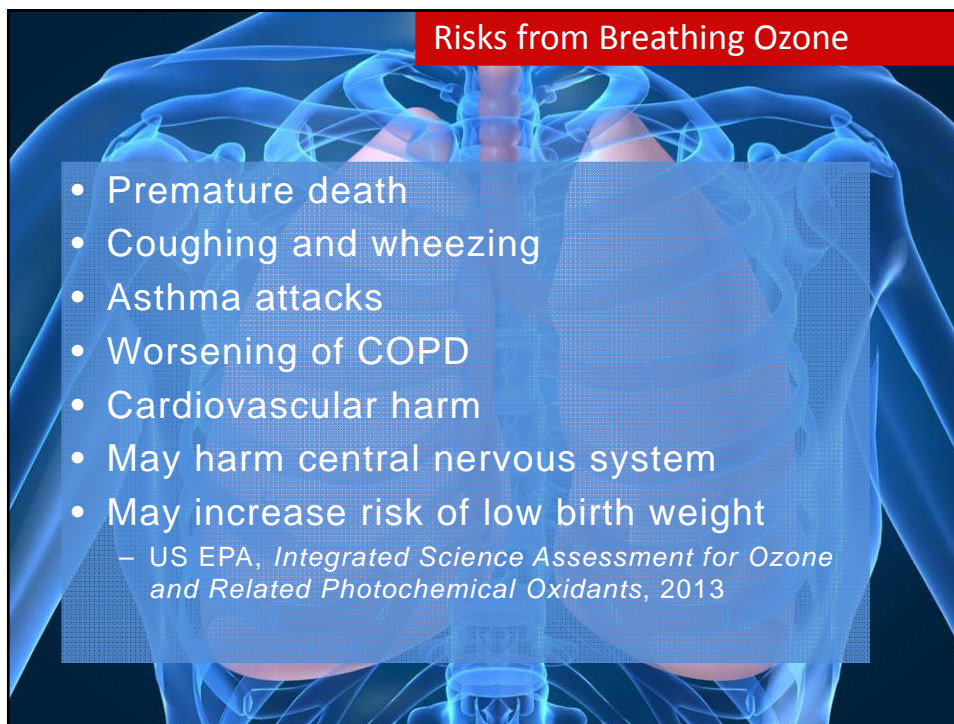
How we grade

Year-round particle pollution is different

- Based on officially calculated annual design values for PM 2.5



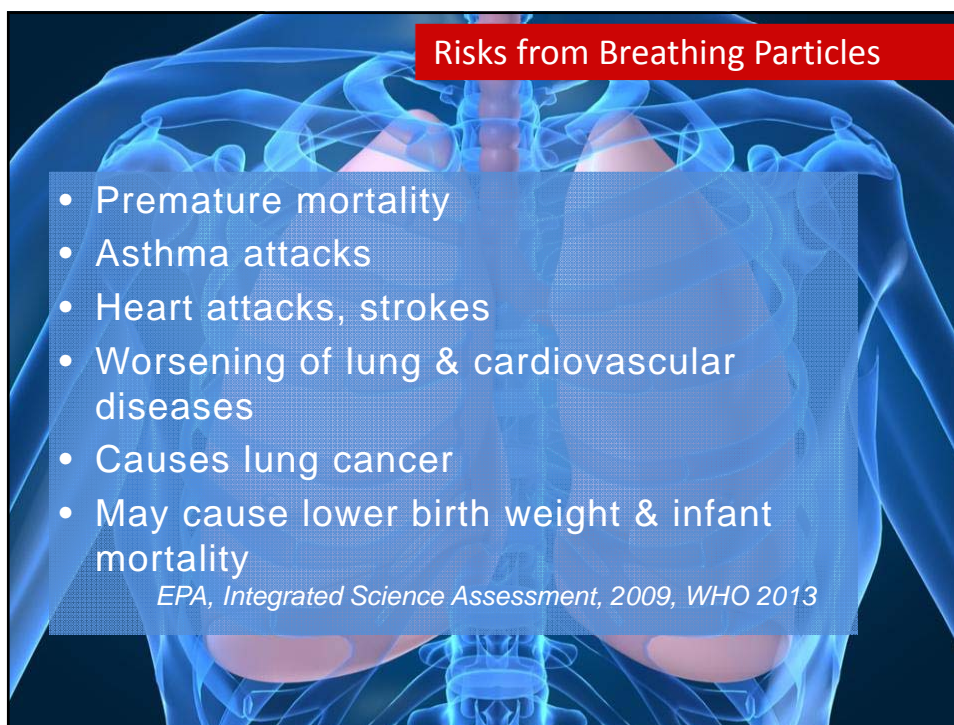
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Risks from Breathing Ozone

- Premature death
- Coughing and wheezing
- Asthma attacks
- Worsening of COPD
- Cardiovascular harm
- May harm central nervous system
- May increase risk of low birth weight

– US EPA, *Integrated Science Assessment for Ozone and Related Photochemical Oxidants*, 2013



Risks from Breathing Particles

- Premature mortality
- Asthma attacks
- Heart attacks, strokes
- Worsening of lung & cardiovascular diseases
- Causes lung cancer
- May cause lower birth weight & infant mortality

EPA, *Integrated Science Assessment*, 2009, WHO 2013

IARC report last October



IARC SCIENTIFIC PUBLICATION NO. 161: AIR POLLUTION AND CANCER

IARC Scientific Publication No. 161
Air Pollution and Cancer
Editors: Kurt Straif, Aaron Cohen, and Jonathan Samet

Air Pollution, PM cause lung cancer



People at risk



Someone in every family faces higher risk from air pollution



Children, Teens face higher risk



Children, teens have growing lungs, spend more time outdoors, inhale more air per pound

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Older Adults face higher risk

Aging brings a gradual decline in the body's systems that makes us more vulnerable.



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Chronic diseases mean higher risk

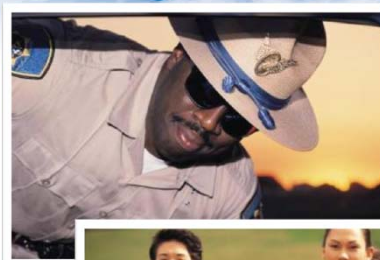
Having **asthma or other lung diseases, cardiovascular disease or diabetes** puts you at higher risk.



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Healthy adults face higher risk

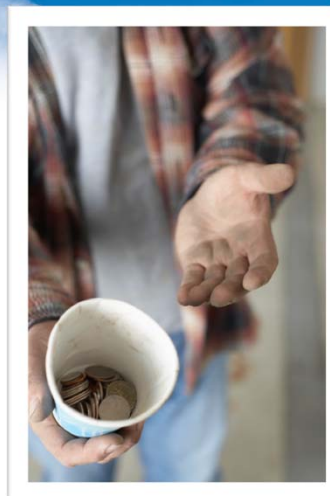
Working or exercising outdoors increases exposure, especially near highways



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Low income people face higher risk

Poorer people often live closer to sources of pollution, may have higher incidence of disease, and less access to care.



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2010-2012 Air Pollution

The News in *State of the Air 2014*

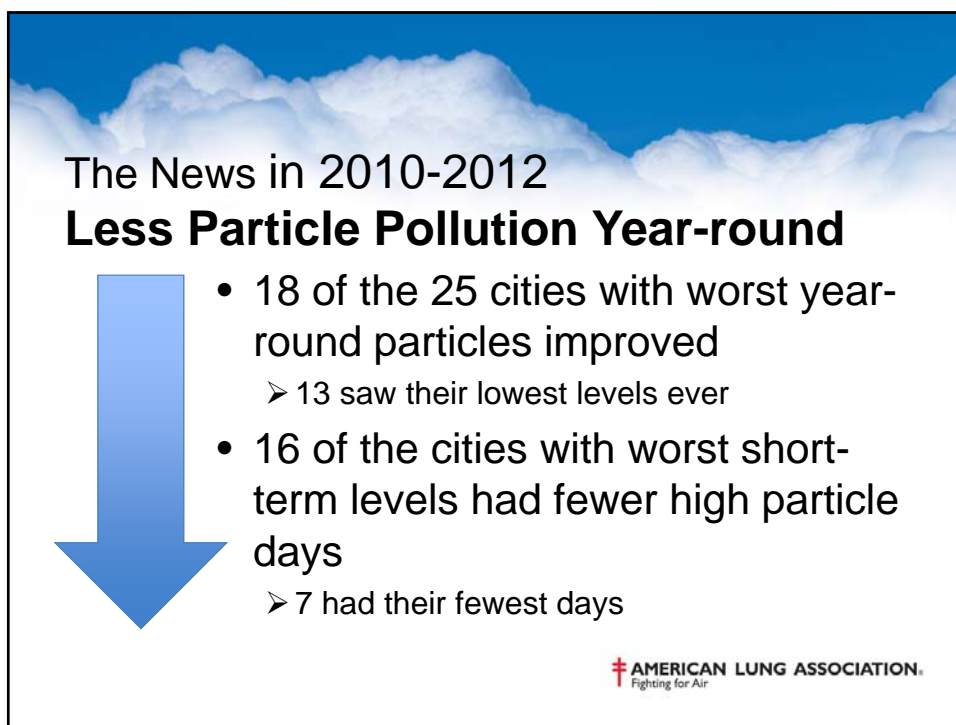
- **More people lived in areas with dangerous levels of ozone or particle pollution** in this report than in last year's report.
- 147.6 million live where air pollution was unhealthy, compared to 131.8 million in 2013 report.
- 27.8 million live where the air received all Fs.

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The News
In 2010-2012
nearly 5 in 10 people
in the U.S.A. lived in counties with an
F for air quality

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The News in 2010-2012
Less Particle Pollution Year-round

- 18 of the 25 cities with worst year-round particles improved
 - 13 saw their lowest levels ever
- 16 of the cities with worst short-term levels had fewer high particle days
 - 7 had their fewest days

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Reasons for improvement?

The Clean Air Act tools at work:

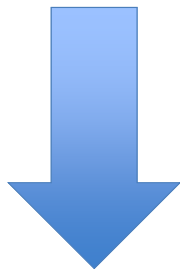
- New emissions control equipment on coal-fired power plants
- Converting fleets of diesel trucks, buses, trains, barges, tractors and heavy equipment to low-emissions vehicles



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2010-2012 Air Pollution

Washington-Baltimore-Arlington, DC-VA-MD-WV-PA (CSA)

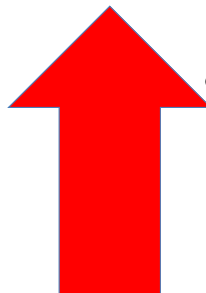


- Tied for 40th for year-round particle pollution—*improved level*
 - *Highest level in Berkeley County, WV*
- Tied for 37th for short-term particle pollution—*fewer days*
 - *Worst days in Baltimore City*

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The News in 2010-2012

Widespread worse ozone



- 22 of the 25 cities most polluted year-round had more unhealthy days
 - Some were substantially worse

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Fighting for Air

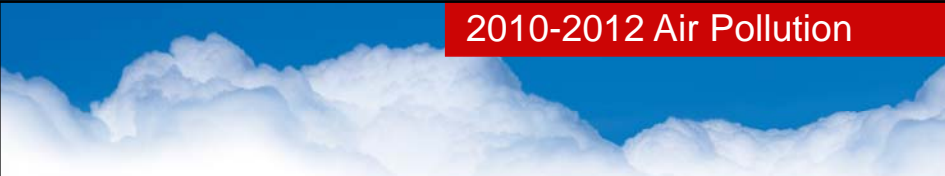
Reason for more ozone?

- Warmer Summers
 - Warmer 2010 and 2012 led to more ozone
- Warmer temperatures with climate change
 - Increases the risk of higher ozone
 - Makes ozone harder to reduce
- Still, much, much better than 15 years ago
 - We've cleaned up a lot of raw ingredients for ozone




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2010-2012 Air Pollution



Washington-Baltimore-Arlington DC-VA-MD-WV-PA (CSA)

- Tied for 8th most polluted for ozone
 - Worst since 2006-2008
 - But 2/3 fewer days than in worst period 1997-1999, reported in Anne Arundel County.
 - *Harford County, MD had worst wgt. avg*



www.stateoftheair.org



STATE OF THE AIR 2014

AMERICAN LUNG ASSOCIATION

KEY FINDINGS
CITY RANKINGS
COMPARE YOUR AIR
HEALTH RISKS
OUR FIGHT
PRESS MATERIALS

<h4 style="text-align: center;">What's the STATE of Your Air?</h4> <p style="font-size: small;">For 15 years, the American Lung Association has analyzed data from air quality monitors to compile the State of the Air report. The more you learn about the air you breathe, the more you can protect your health and take steps to make our air cleaner and healthier.</p> <p style="text-align: center;">REPORT CARD: What's the Grade for Your Air?</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="font-size: x-small;">SEARCH BY ZIP CODE:</p> <input style="width: 90%;" type="text"/> <input type="button" value="SEARCH"/> </div> <div style="width: 10%; text-align: center;"> <p style="font-size: x-small;">OR</p> </div> <div style="width: 45%;"> <p style="font-size: x-small;">SEARCH BY STATE:</p> <p style="font-size: x-small;">Select Your State ▾</p> <input type="button" value="SEARCH"/> </div> </div>	<div style="text-align: center;">  <p style="font-size: x-small;">KEY FINDINGS</p> <p style="font-size: x-small;">Nearly 5 in 10 people live where pollution levels are too often dangerous to breathe.</p> <input type="button" value="LEARN MORE"/> </div>	<div style="text-align: center;">  <p style="font-size: x-small;">CITY RANKINGS</p> <p style="font-size: x-small;">Which cities have the highest levels of air pollution? Which are the cleanest?</p> <input type="button" value="LEARN MORE"/> </div>
<div style="text-align: center;">  <p style="font-size: x-small;">HEALTH RISKS</p> <p style="font-size: x-small;">Ozone and particle pollution are the most widespread pollutants and among the most dangerous.</p> <input type="button" value="LEARN MORE"/> </div>	<div style="text-align: center;">  <p style="font-size: x-small;">OUR FIGHT</p> <p style="font-size: x-small;">We battle air pollution because dirty air harms our health and can threaten life itself.</p> <input type="button" value="LEARN MORE"/> </div>	

www.stateoftheair.org



Detailed health information

STATE OF THE AIR 2014 + AMERICAN LUNG ASSOCIATION.

[KEY FINDINGS](#) [CITY RANKINGS](#) [COMPARE YOUR AIR](#) [HEALTH RISKS](#) [OUR FIGHT](#) [PRESS MATERIALS](#)

Home > 2014 > Health Risks

Health Risks

- OZONE
- PARTICLE POLLUTION
- CHILDREN'S HEALTH
- DISPARITIES AND NEAR HIGHWAYS
- PROTECT YOURSELF

- SHARE YOUR STORY**
- SHARE YOUR AIR**
- DOWNLOAD REPORT**

Ozone Pollution

It may be hard to imagine that pollution could be invisible, but ozone is. The most widespread pollutant in the U.S. is also one of the most dangerous.

Scientists have studied the effects of ozone on health for decades. Hundreds of research studies have confirmed that ozone harms people at levels currently found in the United States. In the last few years, we've learned that it can also be deadly.

What Is Ozone?

Where Does Ozone Come From?

Who Is at Risk from Breathing Ozone?

How Ozone Pollution Harms Your Health

- Premature death**
- Immediate breathing problems**
- Cardiovascular effects**
- Long-term exposure risks**
- EPA finds ozone causes harm**



Download the FREE State of the Air® App

Protect your health and download the American Lung Association's free State of the Air® app. [Learn More >](#)

TRUSTED LINKS

- AirNow
- National Association of Clean Air Agencies

U. S. Environmental Protection Agency sites:

- Clean Air Act: EPA



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Shared stories

STATE OF THE AIR 2014 + AMERICAN LUNG ASSOCIATION.

[KEY FINDINGS](#) [CITY RANKINGS](#) [COMPARE YOUR AIR](#) [HEALTH RISKS](#) [OUR FIGHT](#) [PRESS MATERIALS](#)

Home > 2014 > Personal Stories

Stories

We all have a reason to fight for clean air. Check out some personal stories below that highlight the need for healthy, safe air, and [click here](#) to share your own.

Items 1 - 10 of 293 [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [Next](#)

I have a liver disease and am sensitive to toxins in the air, especially those generated by a local paper mill. When the air is foul, I don't feel well. [Read more at FightingForAir.org](#)

— **O'Neill, AK**

Asthma doesn't run in our family, so how come all three of our grandchildren suffer from asthma? [Read more at FightingForAir.org](#)

— **Pamela, AK**

Download the FREE State of the Air® App

Protect your health and download the American Lung Association's free State of the Air® app. [Learn More >](#)

TRUSTED LINKS

- AirNow
- National Association of Clean Air Agencies

REPORT CARD:
What's the Grade for Your Air?

SEARCH BY ZIP CODE



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14

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State/County level information

STATE OF THE AIR 2014 AMERICAN LUNG ASSOCIATION

KEY FINDINGS CITY RANKINGS COMPARE YOUR AIR HEALTH RISKS OUR FIGHT PRESS MATERIALS

Home > 2014 > States > District of Columbia

District of Columbia

Washington-Baltimore-Arlington, DC-MD-VA-WV-PA

If you live in District of Columbia, the air you breathe may put your health at risk.

Ozone	Particle Pollution 24-hour	Particle Pollution Annual
F	D	Pass

You can make a difference in the air that you breathe.

Take Action for Healthier Air | Tell us why having healthy air matters to you.

Tell your friends about the air where you live.

SEND AN EMAIL | SHARE ON FACEBOOK | SHARE ON TWITTER

High Ozone Days | Learn More

REPORT CARD: What's the Grade For Your Air? | SEARCH BY ZIP CODE | SEARCH BY STATE

Digging into the website

Metro areas have more information

District of Columbia | Washington-Baltimore-Arlington, DC-MD-VA-WV-PA

The air you breathe needs your support.
You can make a difference in the air that you breathe.

Take Action for Healthier Air | Tell us why having healthy air matters to you.

Tell your friends about the air where you live.

SEND AN EMAIL | SHARE ON FACEBOOK | SHARE ON TWITTER

Ranked 8 for high ozone days out of 277 metropolitan areas
Ranked 37 for 24-hour particle pollution out of 277 metropolitan areas
Ranked 40 for annual particle pollution out of 277 metropolitan areas

Take Action | Support Clean Air | Local Air Quality

Contact Your Local Lung Association: Maryland, Pennsylvania, District of Columbia, Virginia, WV

Compare Your Air

Select Your State | Select your City | GO

You can see how the city ranked

You can compare 2 cities

Digging into the website

Detailed metro area info

High Ozone Days [Learn More](#)

Change since 1996: 38.7 less days this year

This County:
Washington, DC

Other counties with monitors in this metropolitan area

Alexandria City, VA	Anne Arundel, MD	Arlington, VA
Baltimore, MD	Baltimore City, MD	Berkeley, WV
Calvert, MD	Carroll, MD	Charles, MD
Clarke, VA	Culpeper, VA	Dorchester, MD
Fairfax, VA	Fairfax City, VA	Falls Church City, VA
Fauquier, VA	Franklin, PA	Frederick, MD
Frederick, VA	Fredericksburg City, VA	Hampshire, WV
Harford, MD	Howard, MD	Jefferson, WV
Loudoun, VA	Manassas City, VA	Manassas Park City, VA
Montgomery, MD	Prince George's, MD	Prince William, VA
Queen Anne's, MD	Rappahannock, VA	Spotsylvania, VA
St. Mary's, MD	Stafford, VA	Talbot, MD
Warren, VA	Washington, MD	Winchester City, VA

A
B
C
D
E
DNC
INC

CIATION

Shows how much improvement in ozone (fewer unhealthy days) since first report.

This list links to all the counties with monitors in this metro.

On this map, colors show the grades for each county with a monitor in the metro area.

Ozone

Ozone progress stalling

High Ozone Days [Learn More](#)

Change since 1996: 38.7 less days this year

Washington-Baltimore-Arlington, DC-MD-VA-WV-PA CLOSE

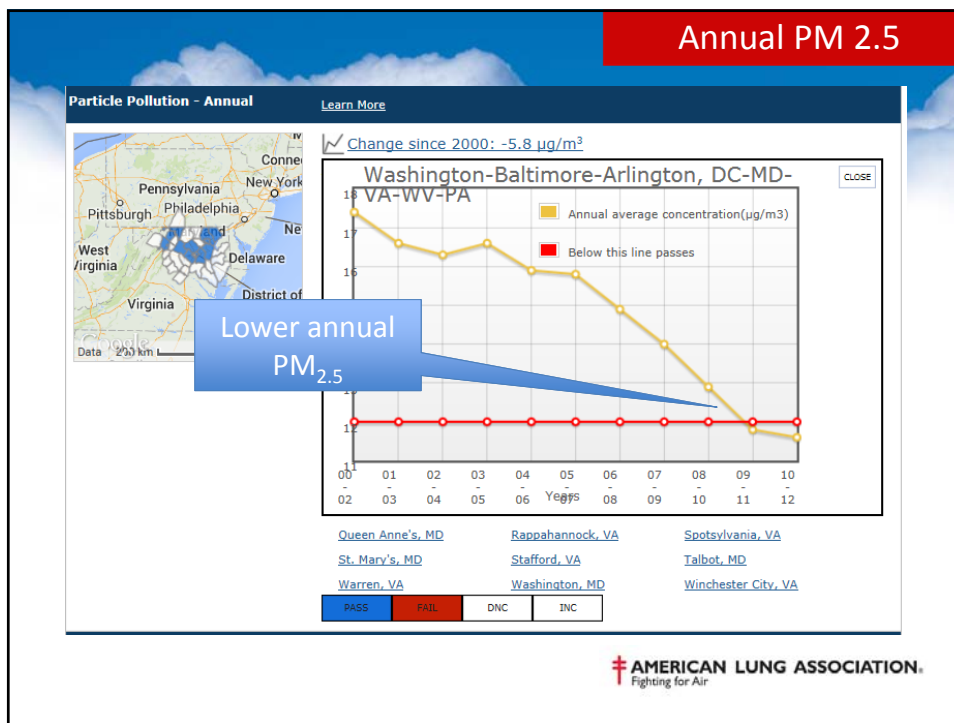
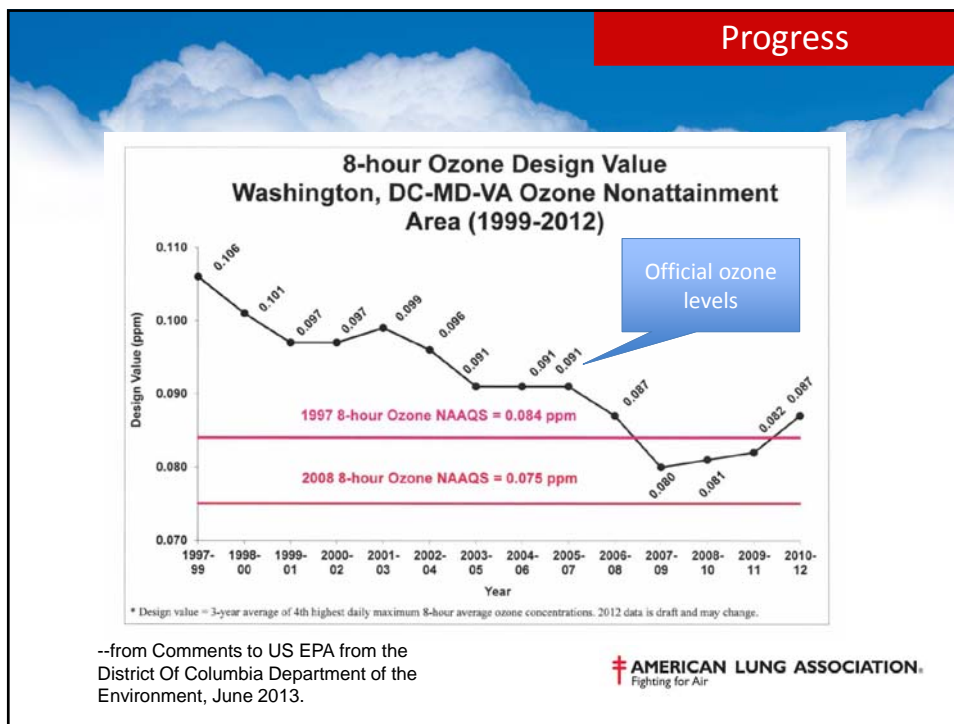
The Red Line is the goal for a passing grade.

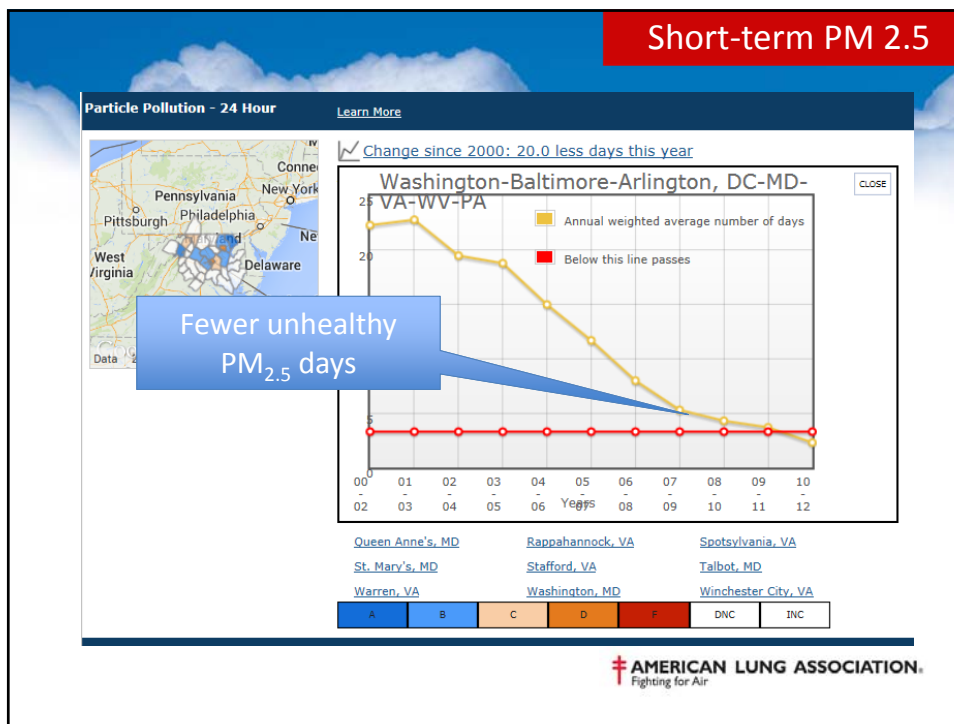
The Yellow Line shows weighted average # of days/year

Queen Anne's, MD	Rappahannock, VA	Spotsylvania, VA
St. Mary's, MD	Stafford, VA	Talbot, MD
Warren, VA	Washington, MD	Winchester City, VA

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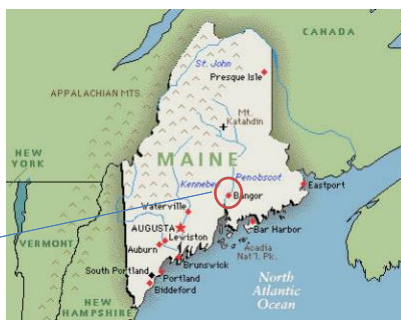




Cleanest Cities



Bangor



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Cleanest Cities

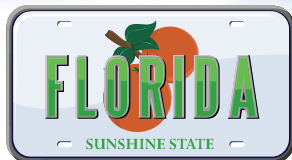


Bismarck



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Cleanest cities



Cape Coral –
Fort Myers



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Cleanest cities

Salinas



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#1 Worst Particles- Year-round and Short-term



Fresno-Madera



#1 Worst Ozone Pollution



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Call to action



Push the EPA to
clean up carbon
pollution from
power plants.



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Why do we publish State of the Air?

Millions of reasons

- **147.6 million people** who live where they breathe too much dirty air too often (ozone or particles)
- **Nearly 27.8 million people** who live where the air failed every test



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