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# **2010 State of the Air Report**

## **(American Lung Association)**

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# ALA Air Quality Report (2010) (Washington, DC Region)

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- American Lung Association (ALA) –
  - Reports status of the air quality for the whole country every year.
  - Report includes Washington, DC region.
  - Provides weighted scores and grades for each county in the Washington, DC region.
  - Also reports top 25 most polluted cities and counties for ozone and PM2.5 (24-hour & annual).

# ALA Methodology

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## □ ALA Methodology :

- Used number of code orange and above days instead of Design Value to calculate Weighted Scores/Grades/Ranks for Ozone & 24-Hour PM2.5 for cities/counties.
- Used Design Value to assign grades/ranks for Annual PM2.5 for cities/counties.

# Comparison of ALA Rankings for WashDC-Baltimore-Northern Virginia 2009 vs. 2010

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ALA ranked **top 25 most polluted cities** in 2009 & 2010 reports –

**Comparison of ALA Rankings (Top 25 Most Polluted City)**

Ozone		24-Hour PM2.5		Annual PM2.5	
2009 Report	2010 Report	2009 Report	2010 Report	2009 Report	2010 Report
<b>14</b>	<b>16</b>	<b>14</b>	<b>18</b>	<b>Not listed</b>	<b>Not listed</b>

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# Comparison of ALA Rankings for WashDC-Baltimore-No.Virginia 2009 vs. 2010

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- ALA published list of **top 25 most polluted counties** in 2009 & 2010 reports –
  - **No** Washington, DC region county appeared in the above list in 2010 report.
  - Fairfax county (VA) was the only one to appear in top 25 ozone list (23<sup>rd</sup> rank) in 2009 report. It did not appear in 2010 report list.

# Comparison of Ozone Grades & Scores (Metro Washington Region Jurisdictions) ALA Reports - 2009 vs. 2010

- Jurisdictions highlighted in **Green** and **red** show lower and higher scores compared to 2009 report.

## Comparison of ALA Grades/Wt. Scores - Ozone

Jurisdiction	2009 Report	2010 Report
District of Columbia	F (19.3)	F (17.7)
Charles	F (14.2)	F (11.7)
Calvert	F (9.7)	F (8.3)
Fredrick	F (14.0)	F (10.7)
Montgomery	F (12.5)	F (11.0)
Prince George's	F (25.8)	F (22.8)
Alexandria	F (12.2)	F (9.8)
Arlington	F (18.3)	F (15.2)
Fairfax	F (28.8)	F (23.3)
Loudoun	F (11.5)	F (12.3)
Prince William	F (5.0)	F (5.7)

# ALA Comparison of PM2.5 Grades Metro Washington Region

- ❑ **Annual PM2.5** - Washington, DC region counties got passing grades in both 2009/10 reports. Grades are based on Design value.
- ❑ **24-Hour PM2.5** – Both grades and scores improved for a few counties. Jurisdictions highlighted in **Green** show improvement in grades/scores from 2009 report.

## Comparison of ALA Grades & Weighted Scores

	<u>24-Hour PM2.5</u>		<u>Annual PM2.5</u>	
	2009 Report	2010 Report	2009 Report	2010 Report
District of Columbia	F (7.5)	F (4.8)	P	P
Montgomery	C (1.0)	B (0.7)	P	P
Prince George's	D (2.7)	D (2.3)	P	P
Arlington	C (1.3)	B (0.7)	P	P
Fairfax	F (6.3)	F (3.3)	P	P
Loudoun	C (1.7)	C (1.0)	P	P

Numbers in bracket indicate ALA weighted scores.

No PM2.5 monitoring in Charles, Calvert, Fredrick, and Prince William Counties and Alexandria city.

# Conclusions

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- ❑ ALA rankings for Washington, DC-Baltimore, Northern Virginia region for both ozone and PM2.5 has improved compared to 2009 report.
- ❑ None of the jurisdictions in Washington, DC region is listed in top 25 most polluted counties in ALA report.
- ❑ Most of the Washington, DC region jurisdictions show improvement in weighted scores, though not in grades for ozone.
- ❑ All Washington, DC region jurisdictions show improvement in either weighted scores or grades or both for PM2.5.