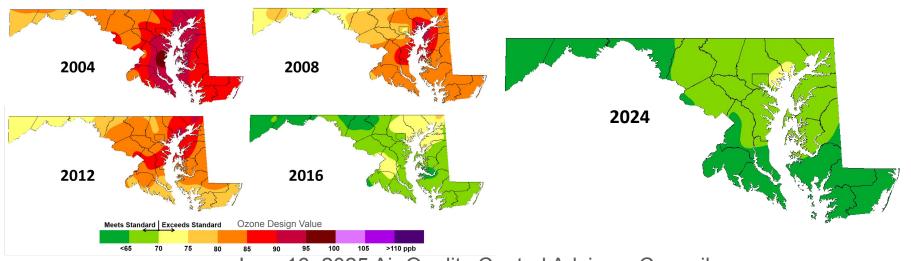


Air Quality Progress in 2024



June 16, 2025 Air Quality Control Advisory Council

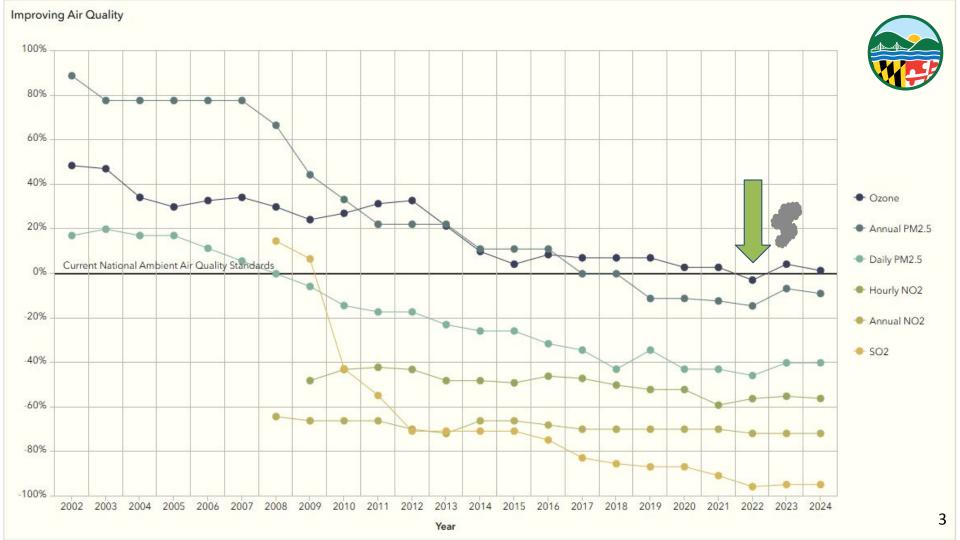
Justin Smith and Kathryn Seaman
Natural Resources Planners, Air and Radiation Administration



MDE's Annual Clean Air Progress Report



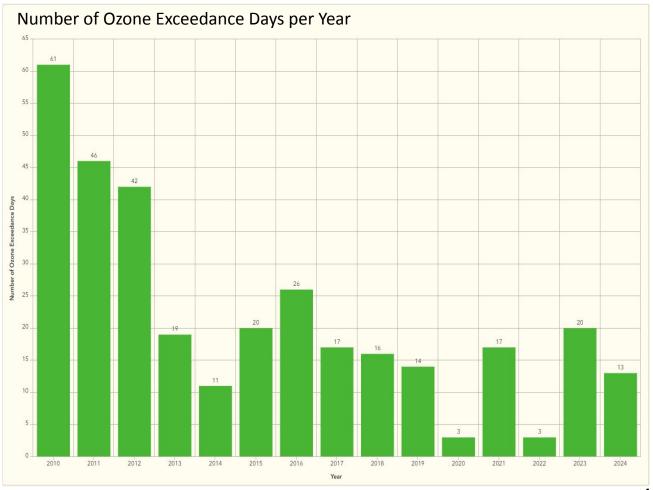
- Provides a summary of Maryland's criteria pollutant levels and history
- Highlights departmental actions and priorities
- Makes Air Quality information accessible to the public
- Encourages action to contribute to cleaner air





Despite record-breaking heat, 2024 had 13 ozone exceedance days - the 4th lowest number of annual exceedance days on record for Maryland.

These events were also typically just a single monitor measuring levels a few ppb above the standard.





Connecting Air Quality and Climate

- 2024 was the Earth's hottest year on record since 1880, with global temperatures more than 1.5°C above the baseline set by the Paris Climate Agreement.
- Policies to reduce Climate Change pollutants have corresponding reductions - called co-benefits - of air pollutants that contribute to poor air quality.
- Regulations for Building Energy Performance Standards (BEPS), came into effect at the end of 2024. BEPS aims to reduce greenhouse gas emissions from large buildings.

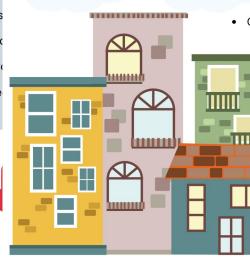


Empowering Action

Transportation

Home Life

- · Use public trans
- · Ride a bike, carpor
- · Combine errands into
 - · Switch to an ele







Community Involvement

- MDE has been building relationships with communities through outreach and ensuring residents are well informed.
- Recent initiatives include:
- Enhanced inspection, monitoring, and enforcement projects in communities overburdened by air pollution.
- The development of an Environmental Justice Screening Tool for Maryland.
- Stakeholder forums and information sessions.
- The Five Million Trees Initiative.



Five Million Trees

- The Five Million Trees Initiative began with legislation passed in 2021 by the Maryland General Assembly and solidified into a final plan to grow five million native trees in Maryland by 2031.
- It is a multi-agency effort that builds upon the state's existing investments in climate action, ecosystem restoration, and forest management.
- Maryland reached a major milestone in 2024 by planting its one millionth tree, ramping up the planting rate and getting on track to meet the goal of Five Million Trees.



Conclusion

As air quality in Maryland continues to improve, MDE remains committed to cleaning the air, protecting public health, and combating climate change. The 2025 Clean Air Progress Report reflects MDE's efforts to engage communities and make air quality information accessible for all Marylanders.

Questions?



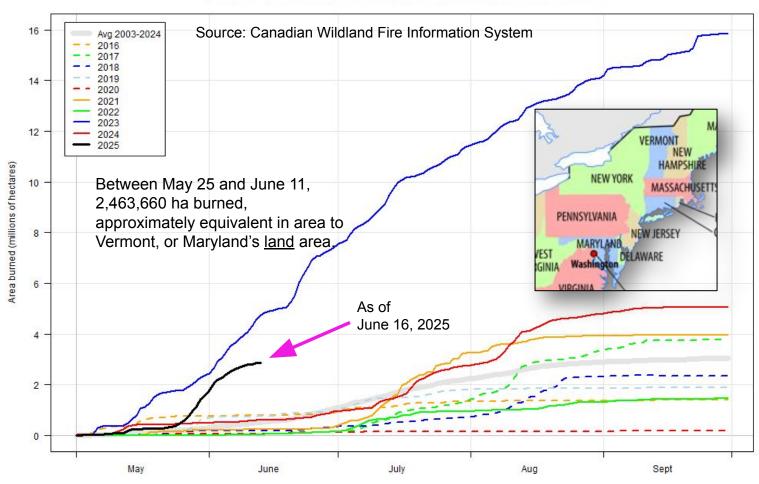
2025 Smoke Impacts

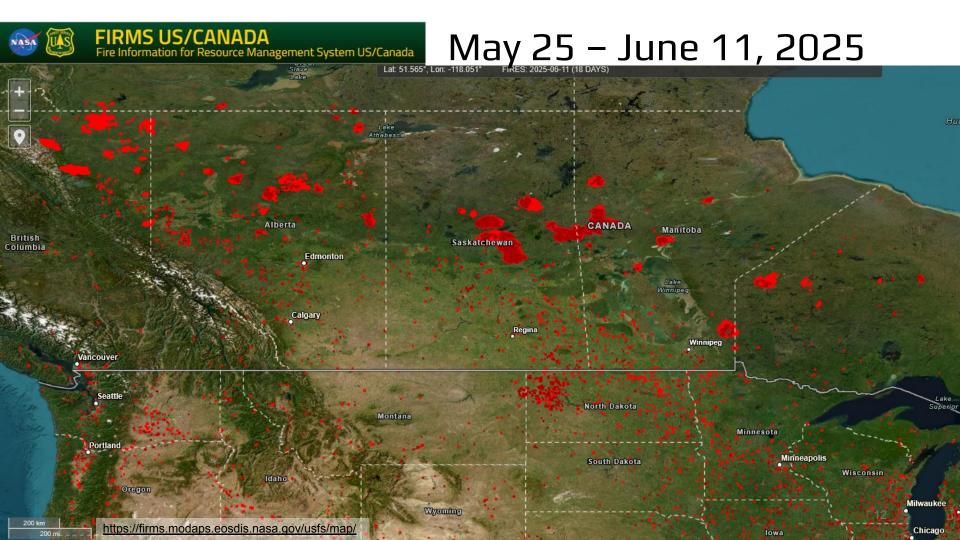
Joel Dreessen

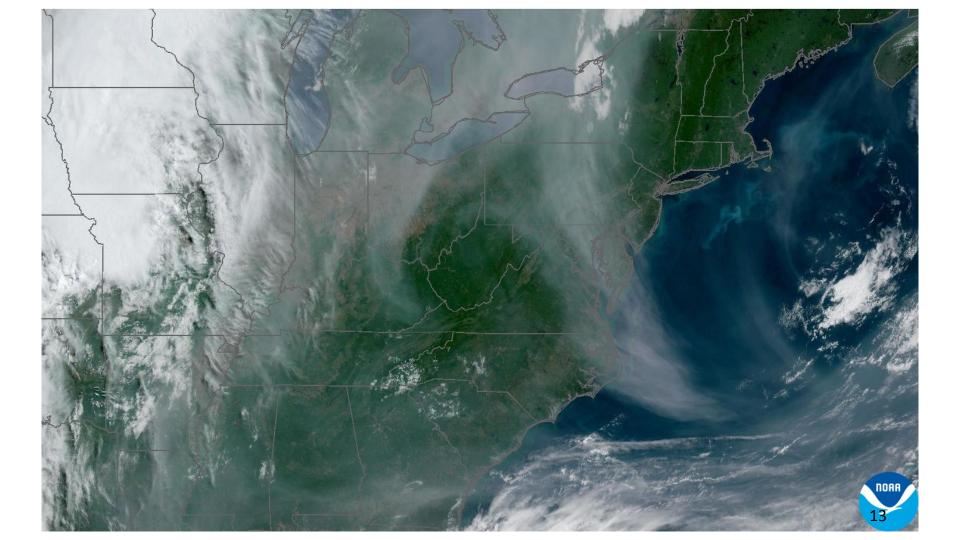
Dep. Program Manager and Senior Meteorologist in the Air Monitoring Program

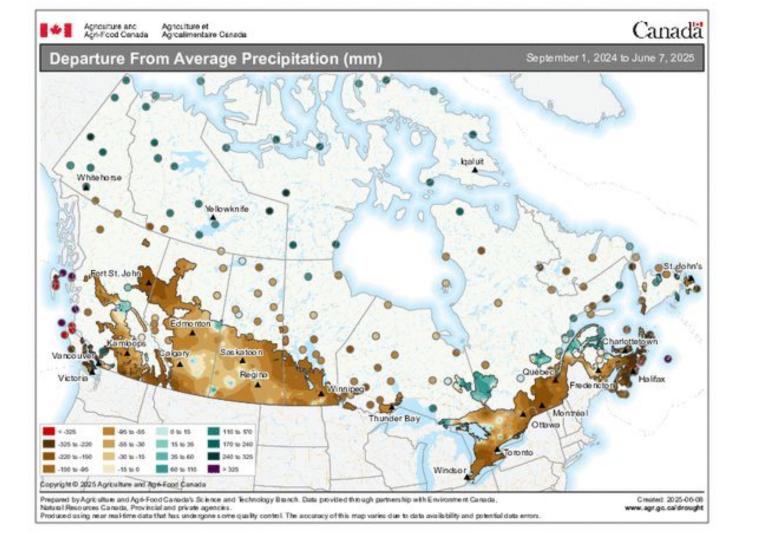
Maryland Dept of the Environment

Cumulative area burned in Canada by year estimated from satellite hotspots









June 12, 2025 and other exceedances

Smoke seemed to "Activate" from Chicago, to MD, to NYC

Brooklyn Park*

71

70

Edgewood

71

75

83

79

70

2024 Design Value

06/04/2025 06/11/2025

06/12/2025

South Carroll

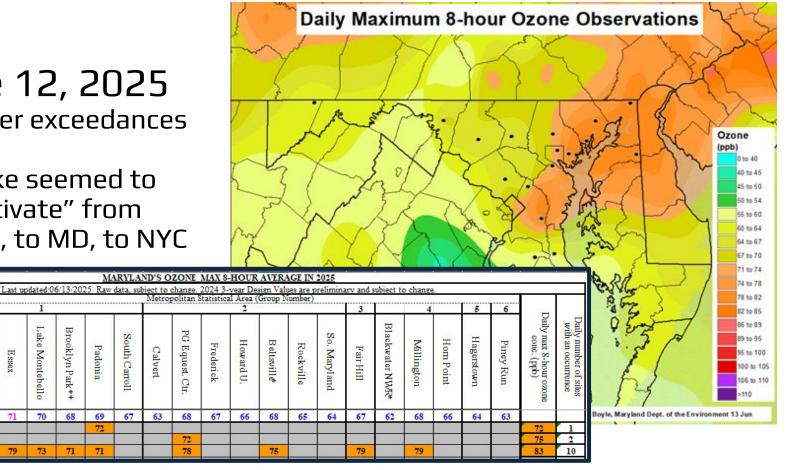
67

63

Padonia

69

71



June 14, 2025 PM2.5 Exceedance

Wharton State
 Forest in New
 Jersey caught fire on Friday

~5800 acres in 2
 days .. about 3000
 soccer fields, or just
 about ⅓ the size of
 Manhattan, NY

