Social Justice is in the Air

Updates and Next Steps for Our Air, Your Future: Creating Clean Air Advocates

AWMA-Baltimore Washington Chapter  August 27, 2020

Elizabeth Spike  Science Teacher, Fairfax County Public Schools
Purple Air PM Sensor
Aeroqual Ozone Sensor
Ozone data
Left: End of our ozone season
Right: Student predicts diurnal pattern

Purple Air Map Screenshot August 26, 2020
Marshall High School Route 7, Falls Church and Tysons
Thanksgiving and Black Friday 2019

PM 2.5 μg/m³

Day and Time

Thanksgiving and Black Friday

11/25/2019 12:00
11/25/2019 0:00
11/27/2019 12:00
11/27/2019 0:00
11/28/2019 12:00
11/28/2019 0:00
11/29/2019 12:00
11/29/2019 0:00
11/30/2019 12:00
11/30/2019 0:00
Marshall HS, Route 7 Falls Church and Tysons December 23-25, 2020

Quander Road School Route 1 Alexandria and Hybla Valley December 23-26, 2019
Graph campus ozone and particulate data

Analyze campus ozone and particulate data

Awareness of air quality as a public good

Propose solutions to reduce campus air pollution

Sensors: install and use | Data Collection and Content | Student conference
---|---|---
Spring 2019-Fall 2020, teachers received sensors, training, and ongoing tech/user support | Fall 2020, teachers were given access to lessons and started collecting data | SEAS 2020 cancelled due to Covid; SEAS 2021 pending
Next Steps

- Ongoing recruitment and training
- Needs assessment for participating teachers and org’s
- Google Site
  https://sites.google.com/view/ourairyourfuture/home?authuser=0
- Include more resources
  - EPA AQI Flag Program
  - Satellite Data
  - Purple Air Data
  - AWMA Lessons
- Support teachers to prepare students for SEAS 2021

Acknowledgements:
Thank you

Questions?

iamespike@gmail.com
easpke@fcps.edu