

# 2024 Annual Air Quality Report

Board of Directors  
Santa Barbara County  
Air Pollution Control District

Our Mission: To protect the people and the environment  
of Santa Barbara County from the effects of air pollution.

Aeron Arlin Genet  
Executive Director / APCO

Sage Swain, Air Quality Specialist  
August 21, 2025

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# Santa Barbara County Air Monitoring Network



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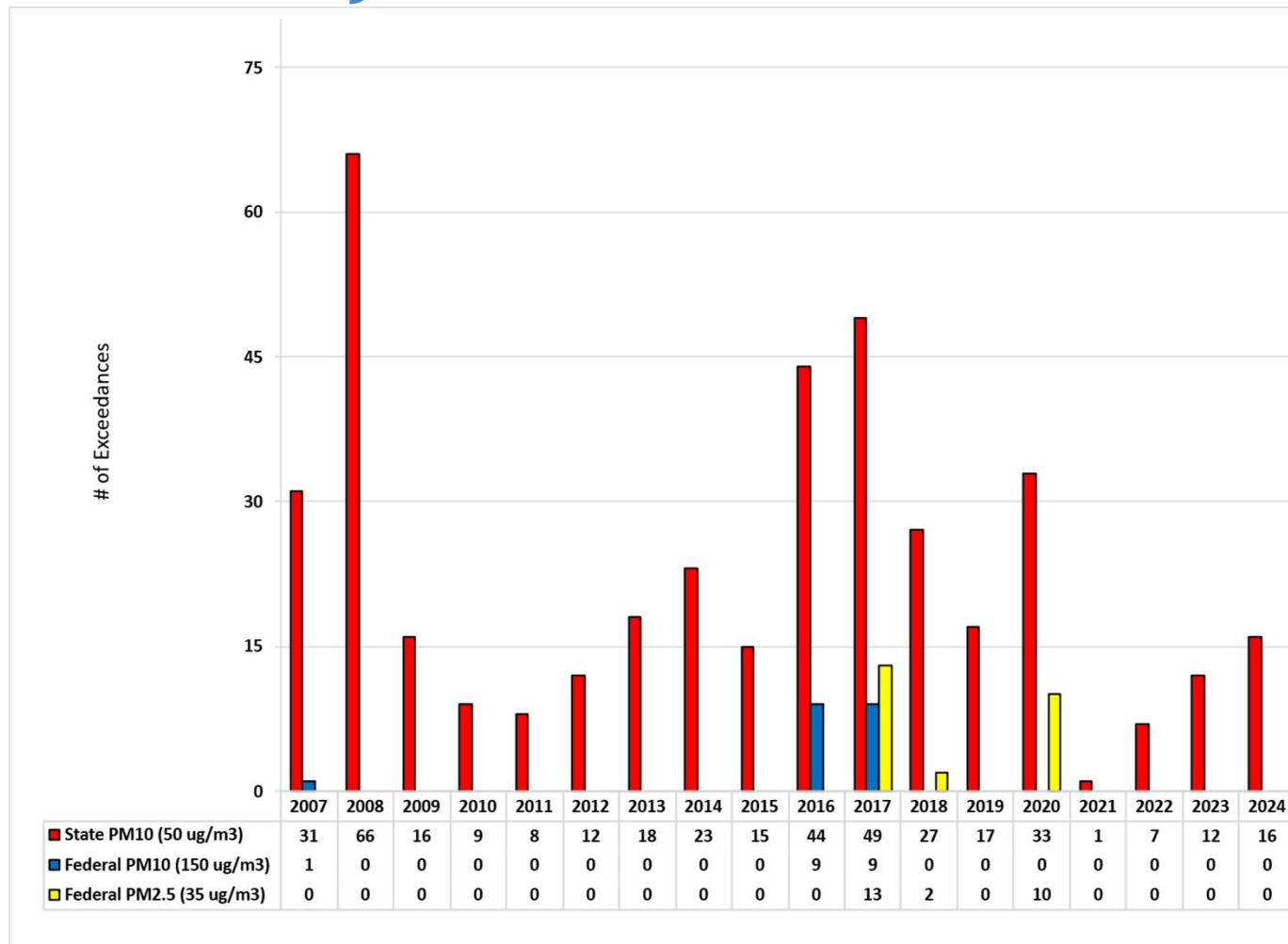
Station	O <sub>3</sub>	NO <sub>2</sub>	SO <sub>2</sub>	CO	THC	H <sub>2</sub> S	TRS	BTEX	PM <sub>10</sub>	PM <sub>2.5</sub>	WS	WD	ATM
Carpinteria	X	X									X	X	X
CarpPM										X			
Goleta	X								X	X	X	X	X
Las Flores Canyon	X	X	X	X	X				X		X	X	X
Las Flores Canyon Odor						X					X	X	X
Lompoc H Street	X	X	X	X					X	X	X	X	X
Lompoc HS&P	X	X	X		X						X	X	X
Lompoc Odor						X	X				X	X	X
Paradise Road	X	X									X	X	X
Santa Barbara	X								X	X	X	X	X
Santa Maria	X		X			X		X	X	X	X	X	X
Santa Ynez	X									X			
SLAMS Monitors						Non-NAAQS Monitors							

WS Wind Speed  
 WD Wind Direction  
 THC Total Hydrocarbons  
 BTEX Benzene, Toluene, Ethylbenzene, Xylene

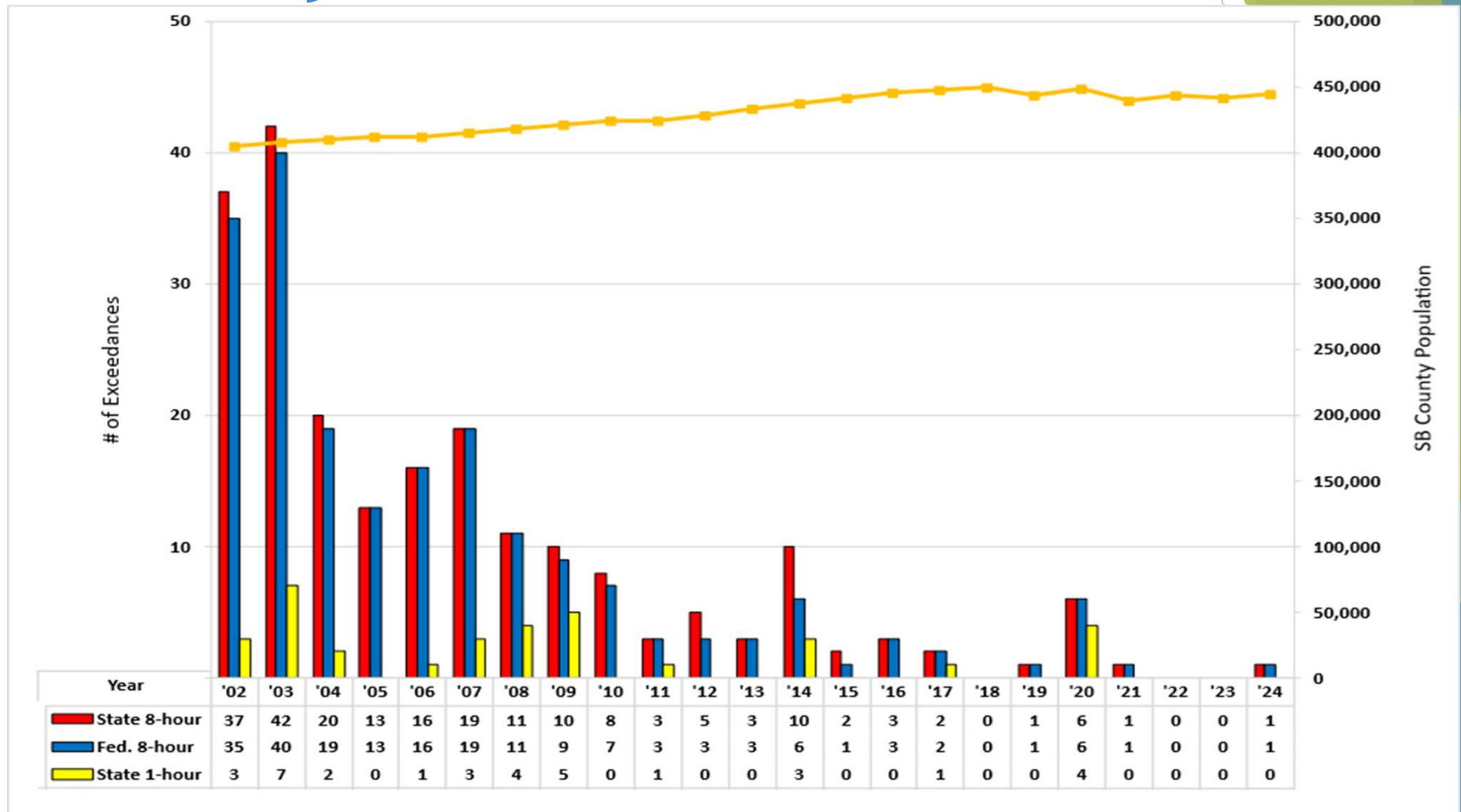
TRS Total Reduced Sulfur  
 ATM Ambient Temperature  
 H<sub>2</sub>S Hydrogen Sulfide



# Air Quality Standards - PM

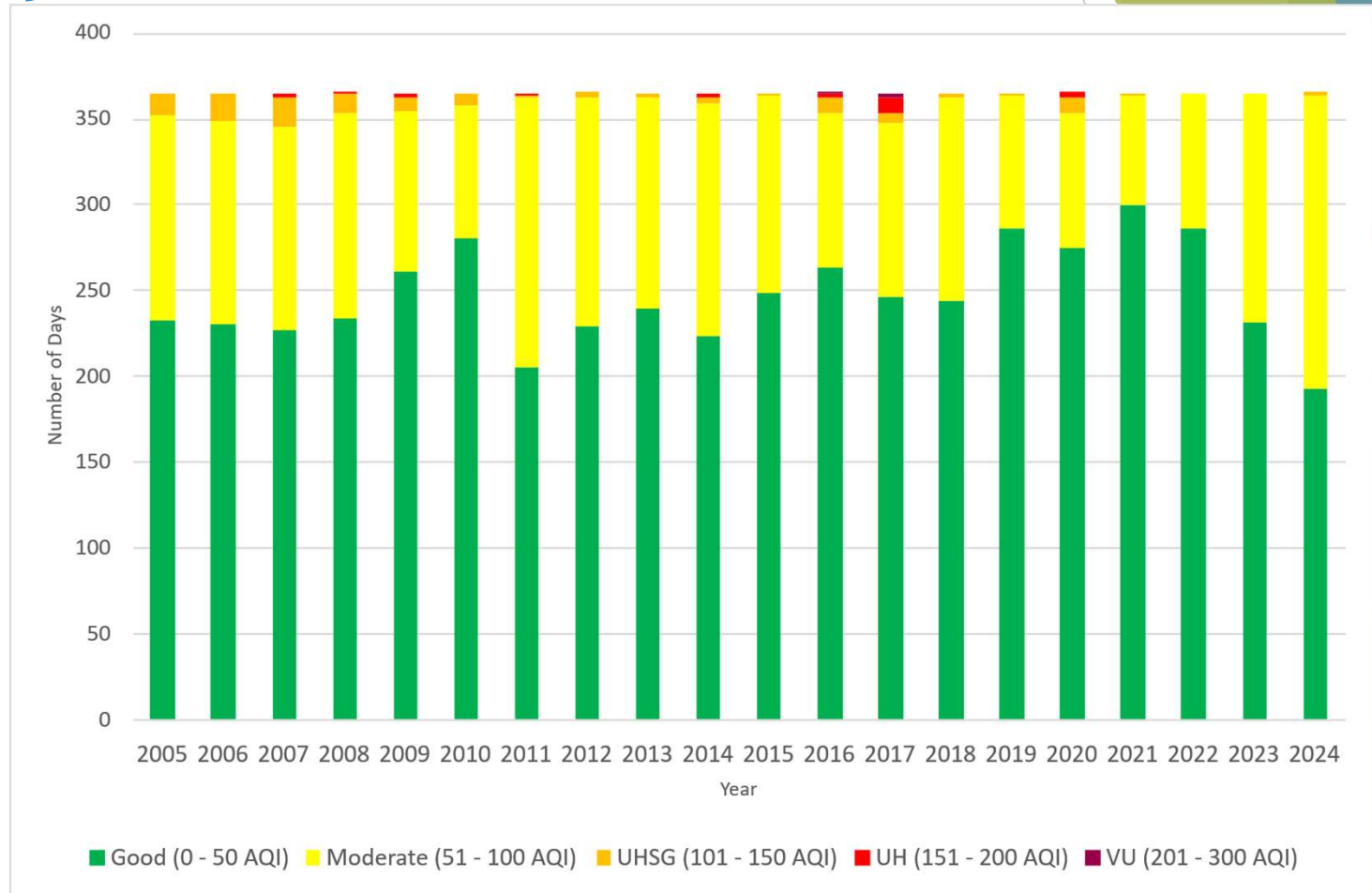


# Air Quality Standards - Ozone



# Air Quality Index

- ▶ 193 Good Days
- ▶ 171 Moderate Days
- ▶ 2 Unhealthy for Sensitive Groups Days
- ▶ 0 Days Unhealthy and above
- ▶ EPA Changed Good and Moderate Breakpoints in May of 2024

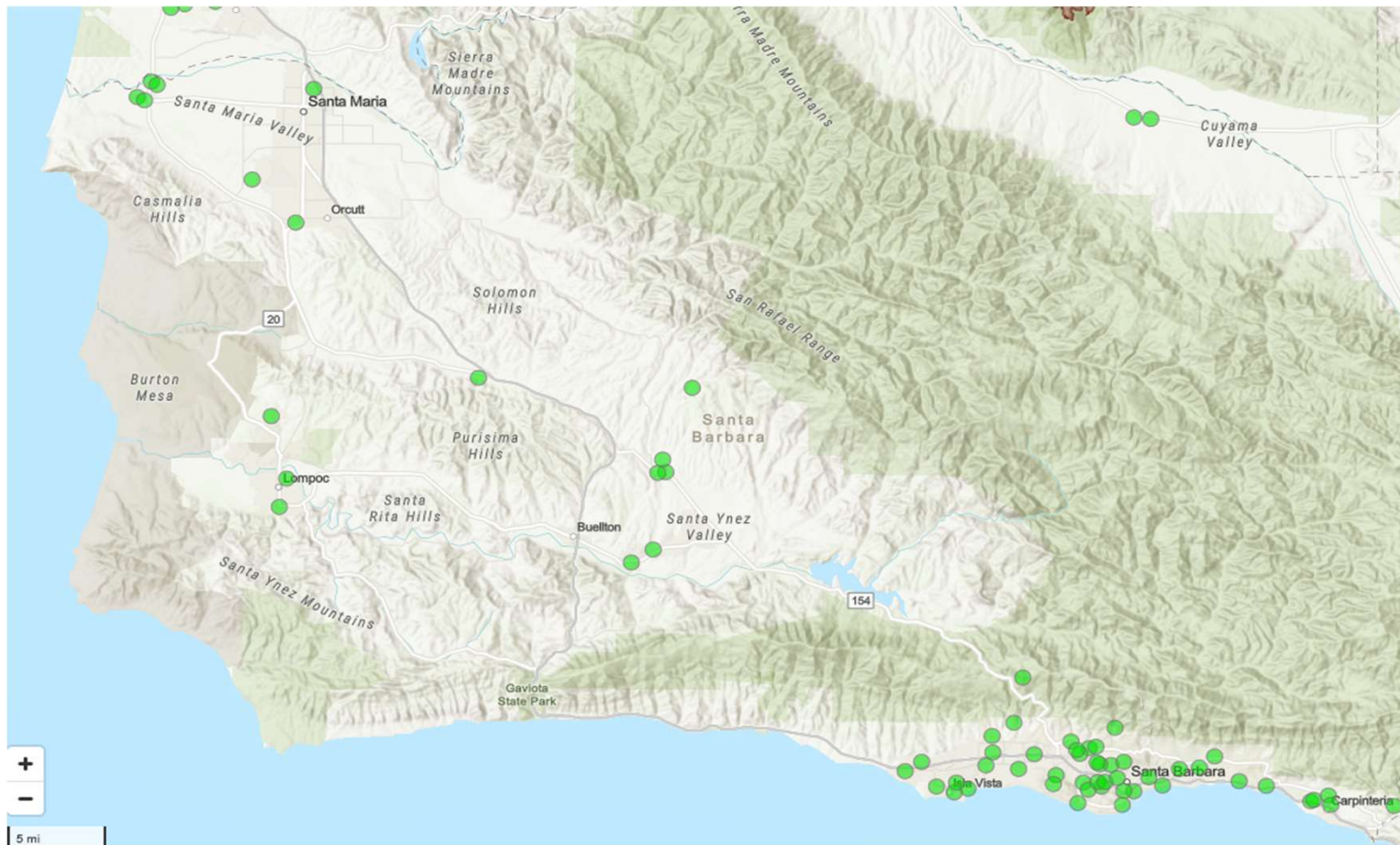


# Portable Monitoring





# Low-Cost Air Quality Sensors





# Air Quality Sensor Grants

- ▶ EPA Inflation Reduction Act Air Quality Sensors Grant
- ▶ MOU between California Air Pollution Control Officers Association and District for EPA Grant Passthrough Project
- ▶ These two grants will fund the purchase and installation of 140+ low-cost air quality sensors throughout Santa Barbara County over the next few years
- ▶ Majority of sensors will be installed at schools
  - ▶ Outreach currently underway
- ▶ Interested organizations can contact [sensors@sbcapcd.org](mailto:sensors@sbcapcd.org) to request an air quality sensor

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# Santa Maria Valley PM Study

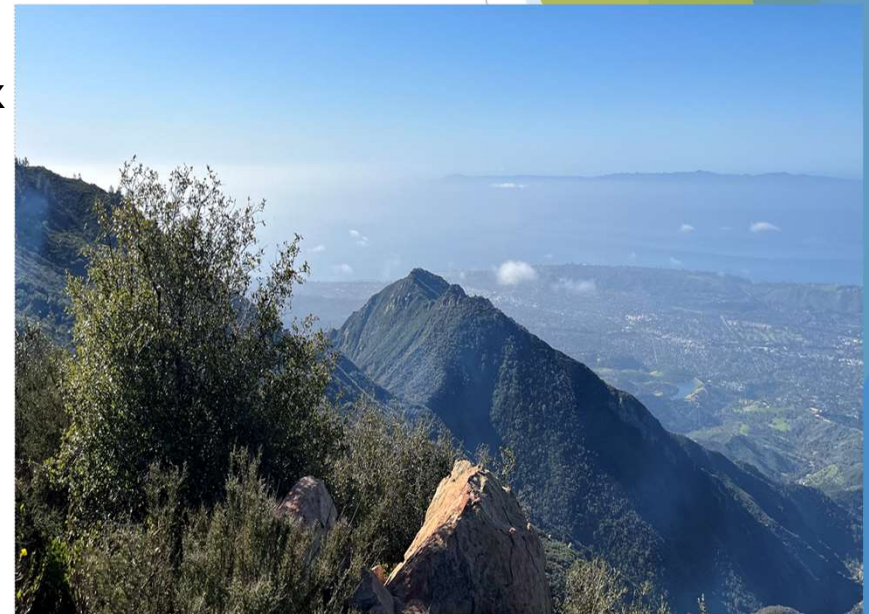
- ▶ Funded by EPA Grant
- ▶ Trinity Consultants
- ▶ Speciate the PM particles
- ▶ 4 Geographical Areas
- ▶ One Portable Unit





# Summary

- ▶ EPA strengthened the PM<sub>2.5</sub> National Ambient Air Quality Standard and updated the Air Quality Index
  - ▶ Results in more “Moderate” or “Yellow” days
- ▶ 16 PM<sub>10</sub> exceedances
- ▶ 1 ozone exceedance
- ▶ Install approximately 140 low-cost air quality sensors in the next couple of years
- ▶ Santa Maria Valley PM Study





# Contact Information

**Sage Swain**

Air Quality Specialist

805-979-8303

[SwainS@sbcapcd.org](mailto:SwainS@sbcapcd.org)

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