

SCAQMD SENSOR LIBRARY PROGRAM

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scaqmd.justair.app



Updates on:

How to Get Involved!

What is the SCAQMD Sensor Library Program?

The South Coast Air Quality Management District (SCAQMD) is partnering with community members (like you!) to deploy sensors in neighborhoods to reflect community concerns about air quality. The sensors are loaned out by South Coast AQMD and then deployed by community members. The data can then be analyzed by those who deployed the sensor and by college students at UCR!

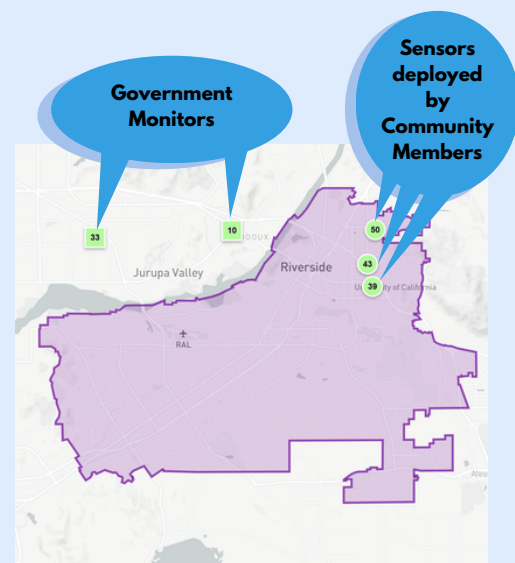
Why are we Doing the Program?

These sensors provide real-time information about neighborhood air quality, increasing awareness of pollution patterns where people live, work, and go to school.



Where are we doing the program?

Anyone throughout the Riverside area is eligible to take out a sensor on loan. Currently We have three sensors deployed in the City of Riverside.



What We've Found So Far:

Data collected so far:

- Three sensors have been deployed from December 18th, 2025, to the present
- Monitors measured the air quality every day
 - Air quality determined by PM2.5, PM10, Ozone, and NO2 measurements
- Most days were classified as “good” air quality

January Air Quality Averages

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
				No Data	No Data	No Data
4	5	6	7	8	9	10
No Data	No Data	Good	Good	Good	Good	Good
11	12	13	14	15	16	17
Good	Good	Good	Good	Good	Good	Good
18	19	20	21	22	23	24
Good	Moderate	Good	Moderate	Unhealthy for SG	Unhealthy for SG	Moderate
25	26	27	28	29	30	31
Good	Good	Good	Good	Good	Good	Good

AQI

Air Sensors Available for Community Use

Sensor	What it Measures	Key Features	How it's Used	Image
Kunak Air Lite	PM ₁ , PM _{2.5} , PM ₁₀ , O ₃ , NO ₂	• Measures particles • Measures gases • Data streams to web dashboard	Installed outdoors on a pole or wall, plugged into an outlet	
QuantaQ MODULAIR-PM	PM ₁ , PM _{2.5} , PM ₁₀	• Measures particles • Data streams to a web dashboard	Installed on poles or walls and plugged into an outlet	
Other PM _{2.5} Sensors	PM ₁ , PM _{2.5}	• Measures particles • Data downloadable via USB or streamed to mobile device via bluetooth	Portable and can be used as a handheld device	

Why were there “Unhealthy” peaks in January?

- Data from one sensor (APEX 33) indicated unhealthy air quality on January 22nd and 23rd
 - Most likely due to a winter temperature inversion (stagnation event): a shallow inversion layer acted like a lid, trapping pollutants and fine particulate matter near the ground.
 - As a result, SCAQMD issued a mandatory no-burn ban

How to Get Involved

Attend the All-Community Workshop!

- **When:** Friday, April 10th, 1:00 PM - 4:00 PM
- **Where:** 21865 Copley Dr., Diamond Bar, CA, Conference Room GB
- **Scan the QR code or visit this [Link](#) to register!**
- **General Registration Deadline:** Monday, April 6th at 11:59 PM



Ready to Borrow a Sensor?

Contact: hvela017@ucr.edu

Frequently Asked Questions?

What is the goal of this program?

To help Riverside communities **better understand local air quality** and identify ways to improve it.

Why is this data important?

Community sensors **help reveal local pollution patterns** that may not be captured by traditional monitoring stations.

What is the sensor data used for?

Sensor data is used for education and community awareness, **not** for regulatory or legal decisions.