

Healthy Air Living Schools Outreach Program

2023 AAPCA Best Practice

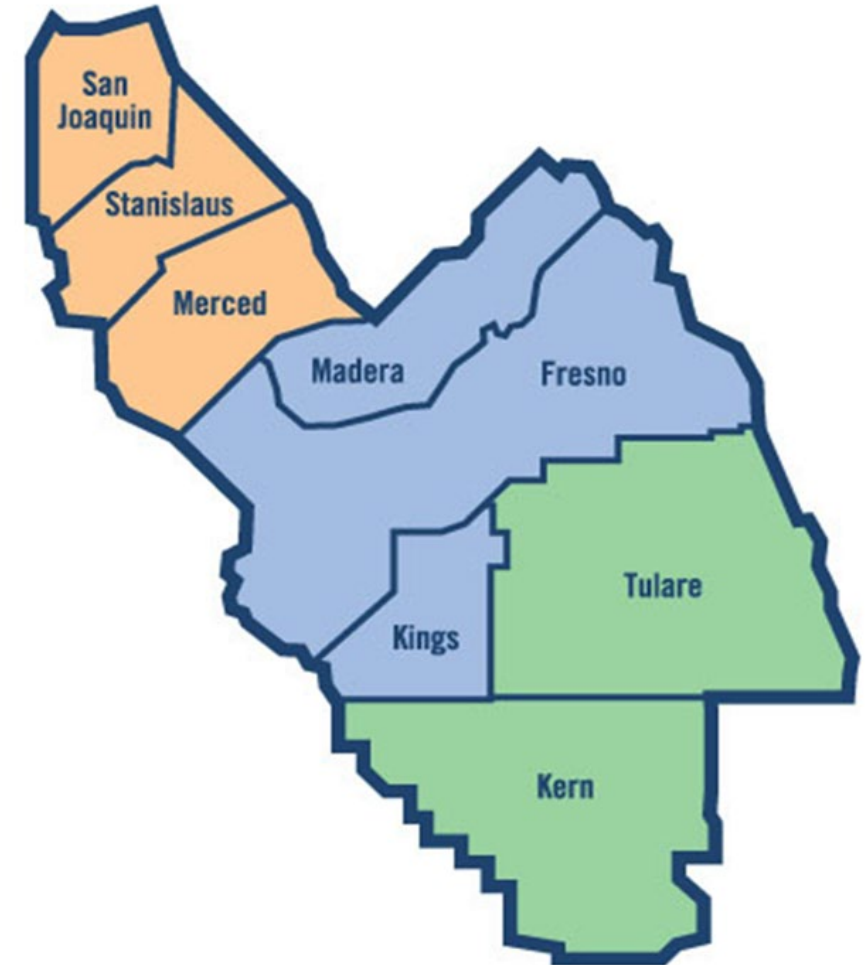
Administration of Air Quality Program

September 27, 2023

San Joaquin Valley Air Pollution Control District

San Joaquin Valley Air Pollution Control District

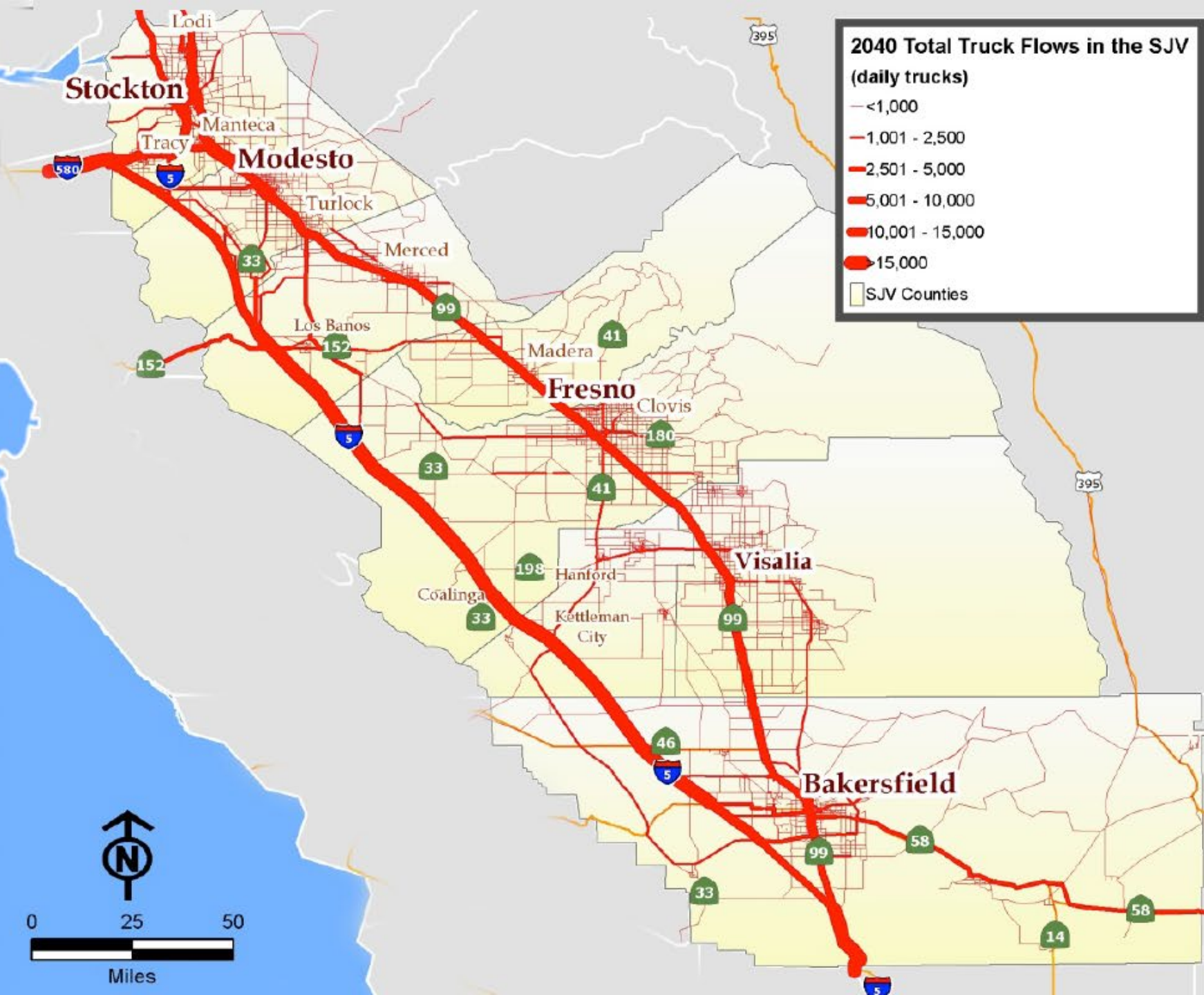
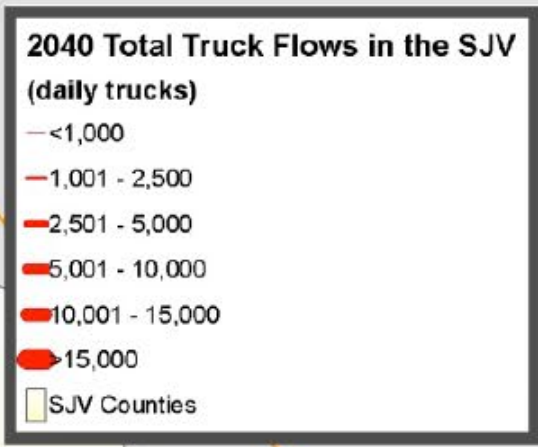
- Regional California agency responsible for air quality in 8 counties
 - *San Joaquin, Stanislaus, Merced, Madera, Fresno, Kings, Tulare & Valley portion of Kern*
- 4.3 million residents
- 15 member Governing Board
- Primarily regulates stationary sources
- Provides grant funding
- Responsible for meeting EPA & CARB mandates to improve public health
- Robust outreach and education program





SAN JOAQUIN VALLEY Unparalleled air quality challenge

Valley serves as
key **GOODS**
MOVEMENT
CORRIDOR



What is Healthy Air Living Schools Program

Multifaceted program focused on protecting students from poor air quality through:

- Adjusting outdoor activities based on real-time air quality
- Adopting no-idling initiatives
- Work with school boards/administrators to develop school policy for outdoor air quality safety
- Engaging teachers and students in air-friendly activities, presentations and educational materials
- Notifying school personnel, parents and students of changing air quality via text, email or app notification

History of the Program

- District partnered with American Lung Association (ALA) on Air Quality Flag Program in early 2000s
 - Colored flag posted at school sites every morning based on AQI forecast made previous day for a particular county
 - District asked schools to keep kids indoors during poor air quality
 - Similar to EPA's current program



History of the Program Continued

- Air quality challenges in the San Joaquin Valley meant dozens of days kids could not go outside at all
- Around 2010, school coaches began to notice air quality changes occurring through the day and inaccuracy of flags at times
 - Asked for better information to give students more time outside
- District partnered with ALA again, local asthma organizations and local university to develop new program to address these issues
- The program was re-engineered at that time as the Healthy Air Living Schools program

Goals of HAL Schools

- Schools modify outdoor activities to protect student health based on air quality
- Air quality notices sent to staff and parents
- Engage all K-12 students
- Deliver air quality information to teachers, students, coaches, nurses, administrators, athletic directors
 - Communicate Valley’s air quality challenges and progress to date
 - Connect parents and families to grant opportunities
- Empower students to serve as air quality ambassadors
- Empower schools to adopt no-idling initiatives or idle-free zones





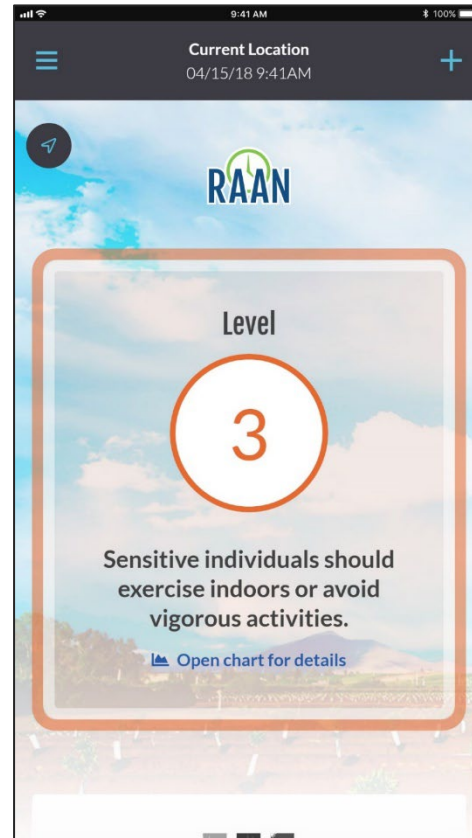
Real-time Outdoor Activity Risk (ROAR) Guidelines

	Level 1	Level 2	Level 3	Level 4	Level 5
Recess (15 min)	Outdoor activity OK for all.	Ensure that sensitive individuals are medically managing their condition.*	Sensitive individuals should exercise indoors or avoid vigorous outdoor activities.*	Exercise indoors or avoid vigorous outdoor activities. Sensitive individuals should remain indoors.*	No outdoor activity. All activities should be moved indoors.
P.E. (1hr)	Outdoor activity OK for all.	Ensure that sensitive individuals are medically managing their condition.*	Sensitive individuals should exercise indoors or avoid vigorous outdoor activities.*	Exercise indoors or limit vigorous outdoor activities to a maximum of 15 minutes. Sensitive individuals should remain indoors.	No outdoor activity. All activities should be moved indoors.
Athletic Practice & Training (2-4hrs)	Outdoor activity OK for all.	Ensure that sensitive individuals are medically managing their condition.*	Reduce vigorous exercise to 30 minutes per hour of practice time with increased rest breaks and substitutions. Ensure that sensitive individuals are medically managing their condition.	Exercise indoors or reduce vigorous exercise to 30 minutes of practice time with increased rest breaks and substitutions. Sensitive individuals should remain indoors.	No outdoor activity. All activities should be moved indoors.
Scheduled Sporting Events	Outdoor activity OK for all.	Ensure that sensitive individuals are medically managing their condition.*	Increase rest breaks and substitutions per CIF guidelines for extreme heat.** Ensure that sensitive individuals are medically managing their condition.	Increase rest breaks and substitutions per CIF guidelines for extreme heat.** Ensure that sensitive individuals are medically managing their condition.	Event must be rescheduled or relocated.
PM2.5 Range	1-12 µg/m ³	13-35 µg/m ³	36-55 µg/m ³	56-75 µg/m ³	>75 µg/m ³
Ozone Range	1-59 ppb	60-75 ppb	76-95 ppb	96-115 ppb	>115 ppb

* Sensitive Individuals include all those with asthma or other heart/lung conditions

** California Interscholastic Federation





Air Quality Levels

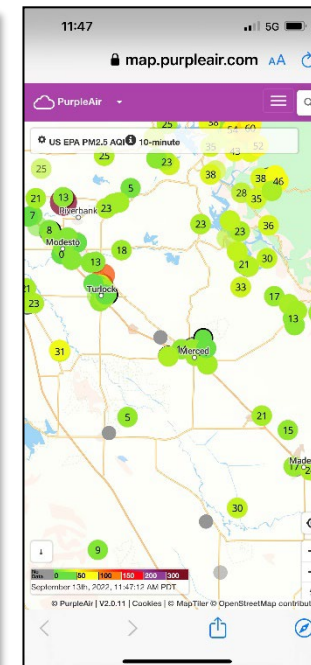
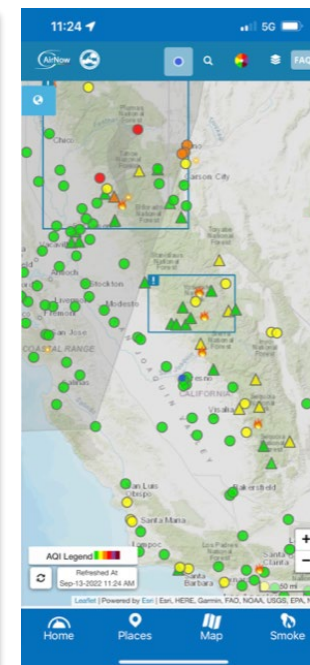
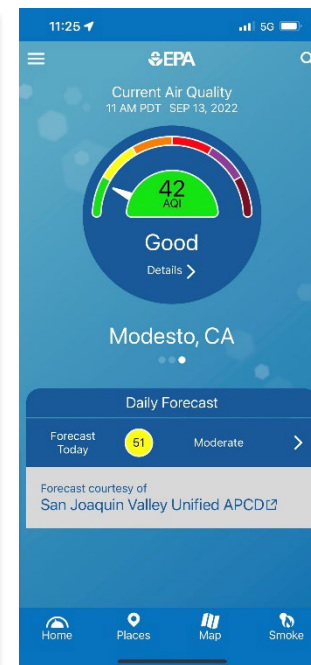
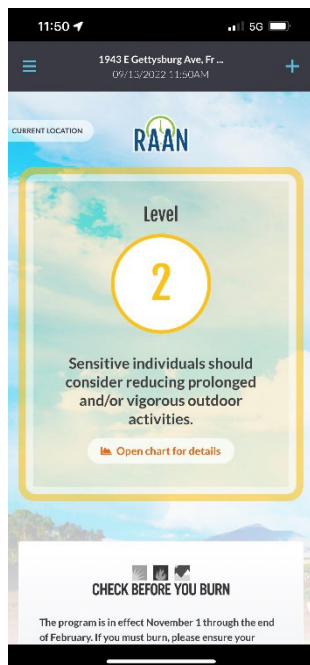
- 1 Outdoor activity OK for all.
- 2 Sensitive individuals should consider reducing prolonged and/or vigorous outdoor activities.
- 3 Sensitive individuals should exercise indoors or avoid vigorous outdoor activities.
- 4 Sensitive individuals should exercise indoors. Everyone should avoid prolonged or vigorous outdoor activities.
- 5 Everyone should avoid outdoor activity.

Interested in air quality notifications? Sign-up for free at myRAAN.com



Enhancing Air Quality Info and Tools

- Teachers, coaches and parents have found mobile apps valuable to access real-time air quality info
- New air quality tools have become available in recent years



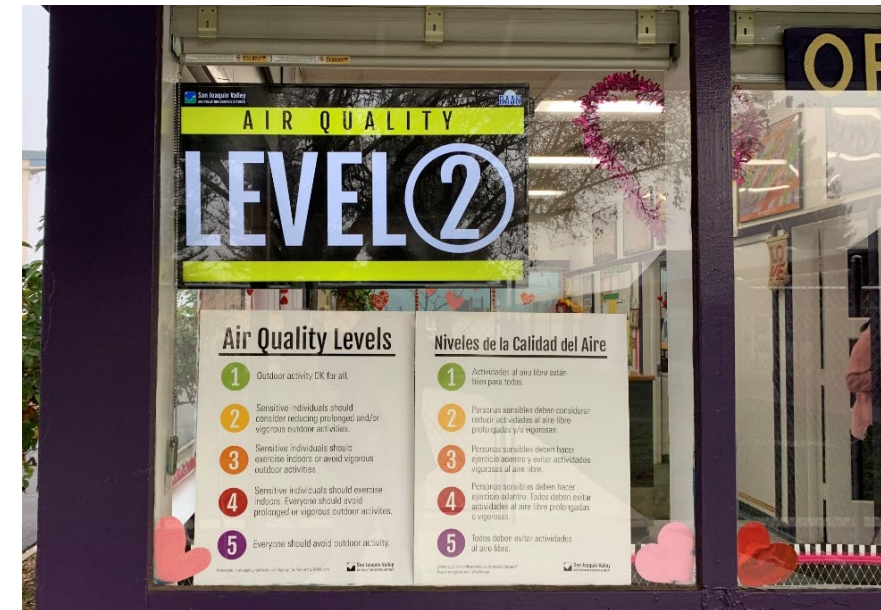
Strategy for Working with Schools

- **Research** each school district to determine extent to which participation is feasible and sustainable
- **Analyze** organizational structure to identify opportunities for effective engagement
- **Establish communication** with high-level administrators to ensure maximum buy-in
- **Flexibility** in establishing program focus, direction, and communication in providing tools to meet each school district's needs and limitations
- **Reinforce** partnerships using established connections to expand District's presence, and continued communication to strengthen school participation

2022 HAL Schools Progress Report

- Increased current contact info to over 1,843 individual personnel
- Despite COVID, 5% increase in participation, with 1,011 schools representing in 71% of all Valley schools
- Tulare County highest percent participation rate with 81% of all schools in the county using program; Fresno and Stanislaus counties are tied for third with 77% each
- 297 schools or school districts have online READ information displayed on their public web page
- 28 schools have deployed District-provided READ devices

Real-time Electronic Air-quality Displays (READs)



ADDITIONAL INFORMATION

- > Air Quality Alerts
 - > Air Quality Alerts (K-6)
 - > Air Quality Alerts (7-12)
- > Blackboard Connect Communications
- > Heat Advisory
- > Lightning Guidelines
- > Safety Tip Line
- > Website Accessibility Statement
- > Connect with TUSD

BROWN

10/27/2022 11:00:00 AM

Walter M. Brown Elementary

Ozone

LEVEL 1
Good - No restrictions

Fine Particulate Matter

LEVEL 1
Good - No restrictions

www.valleyair.org

EARL

10/27/2022 11:00:00 AM

Dennis G. Earl Elementary

Ozone

LEVEL 1
Good - No restrictions

Fine Particulate Matter

LEVEL 1
Good - No restrictions

www.valleyair.org

WAKEFIELD

10/27/2022 11:00:00 AM

Wakefield Elementary

Ozone

LEVEL 1
Good - No restrictions

Fine Particulate Matter

LEVEL 1
Good - No restrictions

www.valleyair.org

COALINGA-HURON UNIFIED SCHOOL DISTRICT
Engage, Challenge and Inspire

Home Departments Schools Portals More...

View full Calendar

2018

LIBRARY SUMMER READING PROGRAM
Summer Reading Program Coalinga-Huron Library District See flyer for details

7 Jun 2018

FORKLIFT CERTIFICATION COURSE - JUNE 2018
Forklift Certification Course See flyers for details

30 May 2018

2018 EOY LUNCHEON
2018 End of Year Luncheon Our End of Year Luncheon is June 8th in the Huron Cafeteria. Transportation will be available from Coalinga, but you must reserve a seat on the bus.

24 May 2018

CNFR CHICKEN DINNER
College National Finals Rodeo Chicken Dinner See flyer for details

AIR QUALITY REPORT

8/23/2018 2:00:00 PM

Coalinga Middle

Ozone

LEVEL 2
Moderate - Sensitive individuals should consider reducing prolonged and/or vigorous outdoor activities.

Fine Particulate Matter

LEVEL 2
Moderate - Sensitive individuals should consider reducing prolonged and/or vigorous outdoor activities.

www.valleyair.org

MEASURE R

JOHN C. MARTINEZ ELEMENTARY SCHOOL

OUR SCHOOL ACADEMICS STUDENTS PARENTS CONTACT

Parents • Air Quality

Air Quality

8/21/2018 3:00:00 PM

John C Martinez Elementary

Ozone

LEVEL 2
Moderate - Sensitive individuals should consider reducing prolonged and/or vigorous outdoor activities.

Fine Particulate Matter

LEVEL 2
Moderate - Sensitive individuals should consider reducing prolonged and/or vigorous outdoor activities.

www.valleyair.org

Handbook
Air Quality

ATWATER HIGH SCHOOL

BOARD AGENDAS LOGIN AERIES SEARCH TRANSLATE
BACK TO DISTRICT

ABOUT ACADEMICS ATHLETICS LIBRARY STUDENT LIFE STUDENT SERVICES STAFF DIRECTORY

AIR QUALITY

10/27/2022 11:00:00 AM

Atwater High

Ozone

LEVEL 1
Good - No restrictions

Fine Particulate Matter

LEVEL 1
Good - No restrictions

www.valleyair.org

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Principal's Welcome
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Air Quality
Bell Schedules
Calendars
Bus Stops
Reports & Plans
Parent & Stakeholder Involvement
Contact Us
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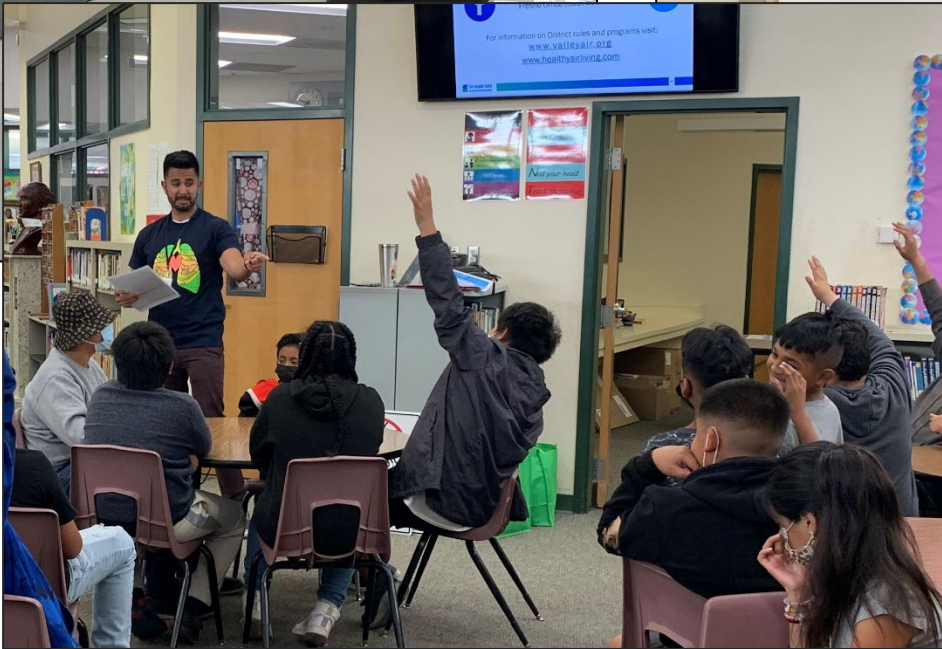
In-person Outreach at School Sites



Presentations and Events



Integrating Air Quality Education into STEM And Other Opportunities



What's Next for HAL Schools?

- Continued focus on anti-idling and promotion of cleaner vehicles and grant opportunities
- Leveraging new opportunities under local, state, federal funding for school buses, indoor air filtration and air quality education
- Leveraging community partners that also work to engage schools on clean air programs
- Further integration of air quality education into STEM and other opportunities
- Enhancing air quality info and tools