



Ambient Air Monitoring in California


Air Program | Environmental Monitoring Branch

October 14, 2020

South Central Fresno Community Steering Committee







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Today's Agenda

October 14, 2020

- Background:
What is the Air Program? 
- Why Do We Monitor?
How Do We Monitor? 
- Where Are We Monitoring?
Results, Reports, and Outreach 
- Questions
Contact Information 

Background: What is the Air Program?

- ❖ As part of the Environmental Monitoring Branch at the Department of Pesticide Regulation (DPR), the Air Program is responsible for **assessing** pesticide concentrations in air and **mitigating** adverse risks associated with pesticide applications.
 - Collecting air monitoring data is needed for this goal
 - Air monitoring data is supplemented with computer modeling and other data to estimate concentrations and emissions

Background: What governs the Air Program?

- ❖ Key laws for Air Program:
 - California Food and Agricultural Code - Continuous evaluation
 - California Toxic Air Contaminant (TAC) Act
 - Requires DPR to assess and mitigate risks from air exposure
 - Requires ARB to monitor at DPR's request

Background: Why Do We Monitor?

Depending on the study, DPR performs air monitoring to:

- Identify pesticides in air
- Determine acute, sub-chronic, or annual concentrations
- Assess subchronic, chronic, and/or cumulative exposures
- Track trends in air concentrations over time
- Determine efficacy of mitigation measures
- Determine pesticide emission rate (flux)
- Validate and refine air computer models

How Does DPR Monitor For Pesticides in Air

Application-site
Monitoring

Seasonal
Monitoring

Long-term
Monitoring

How Does DPR Monitor For Pesticides in Air



Application-site Monitoring

- Monitoring occurs on or at the edge of the application field
- Monitoring occurs for several days after the application
- Data best used to estimate maximum exposures over hours or days

How Does DPR Monitor For Pesticides in Air



Seasonal Monitoring

- Monitoring is conducted in communities of higher pesticide use relative to other communities.
- 1-2 pesticides is conducted for the 8-12 week period that coordinates with the historical use season.
- Data best used to estimate maximum exposures over weeks or months

How Does DPR Monitor For Pesticides in Air



Long-term Monitoring

- Continuous weekly air sampling is performed in communities with high use of multiple pesticides
- Data best used to assess maximum exposures for multiple pesticides over years

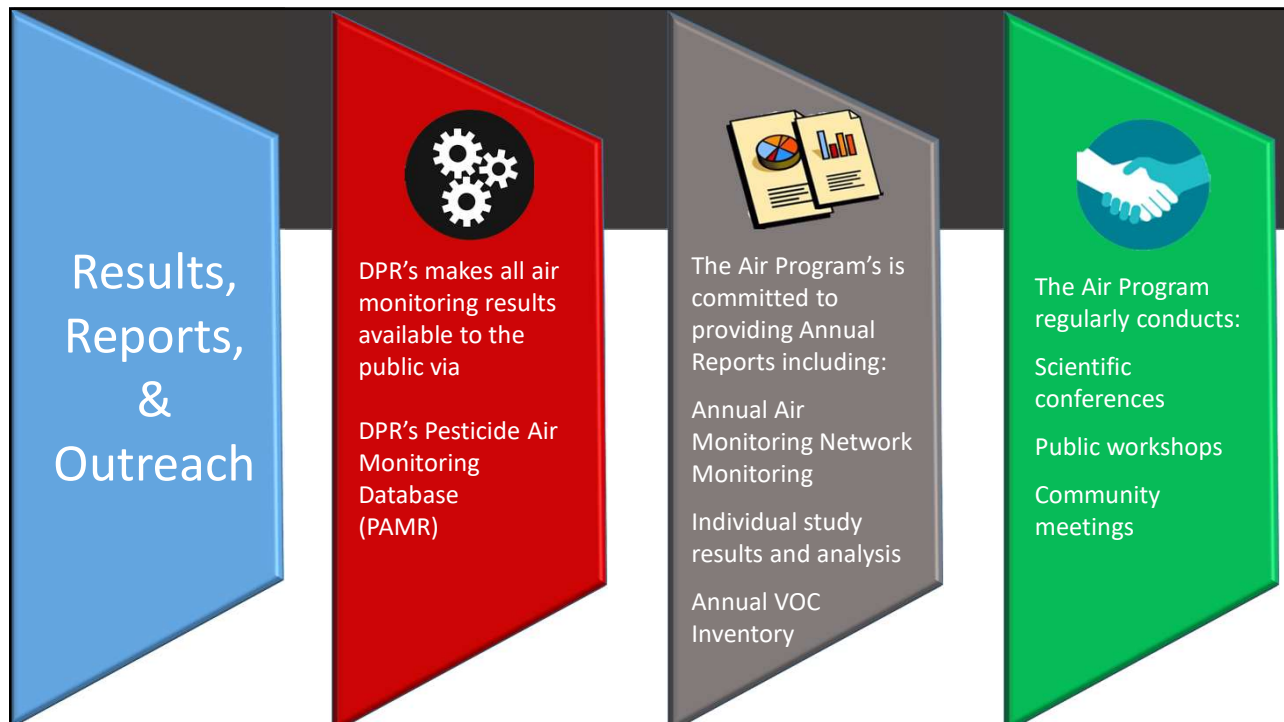
Where Do We Monitor?



Long-Term Air Sampling Sites




Recent Seasonal Air Monitoring Sampling Sites



Questions? Contact Us

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 **Additional Information is available:**
DPR's Air Program Site
<http://www.cdpr.ca.gov/docs/emon/airinit/airmenu.htm>

Air Monitoring Network
http://www.cdpr.ca.gov/docs/emon/airinit/air_network.htm

