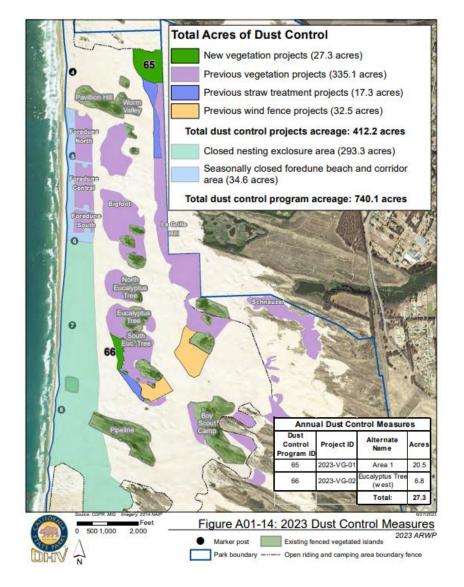
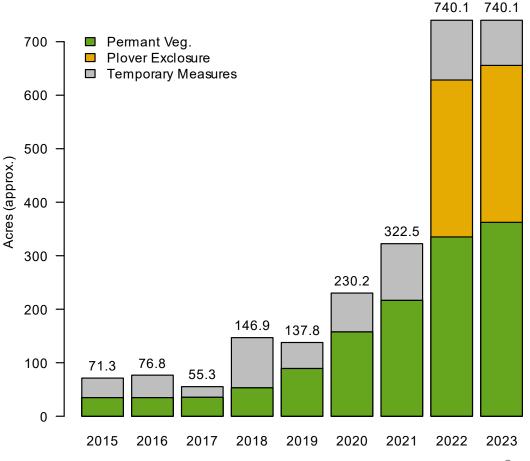




Evolution of Dust Controls



Acres of Dust Control Within the ODVRA (from 2023 ARWP)



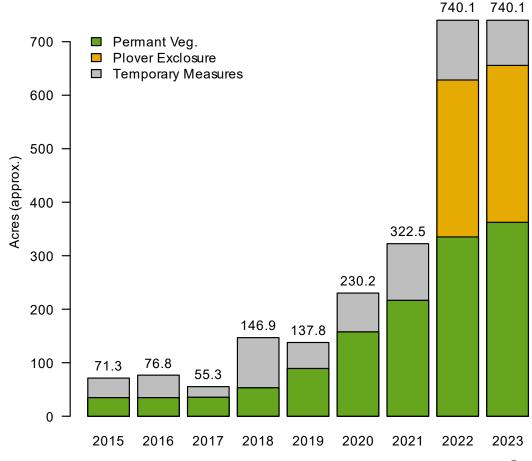




Evolution of Dust Controls – Monitor Locations



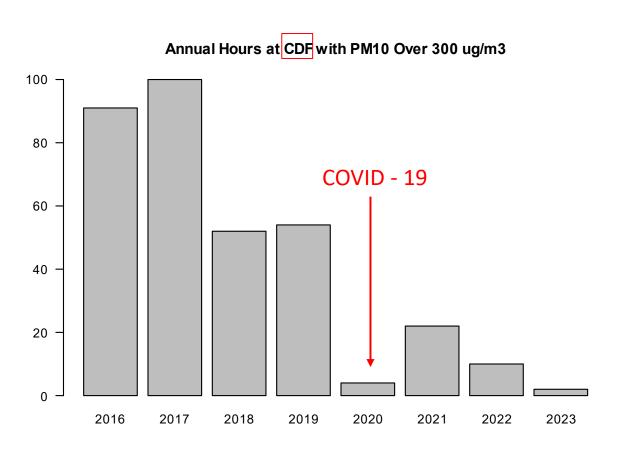
Acres of Dust Control Within the ODVRA (from 2023 ARWP)

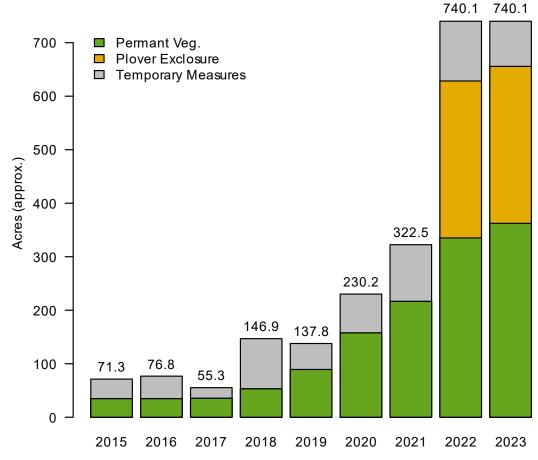






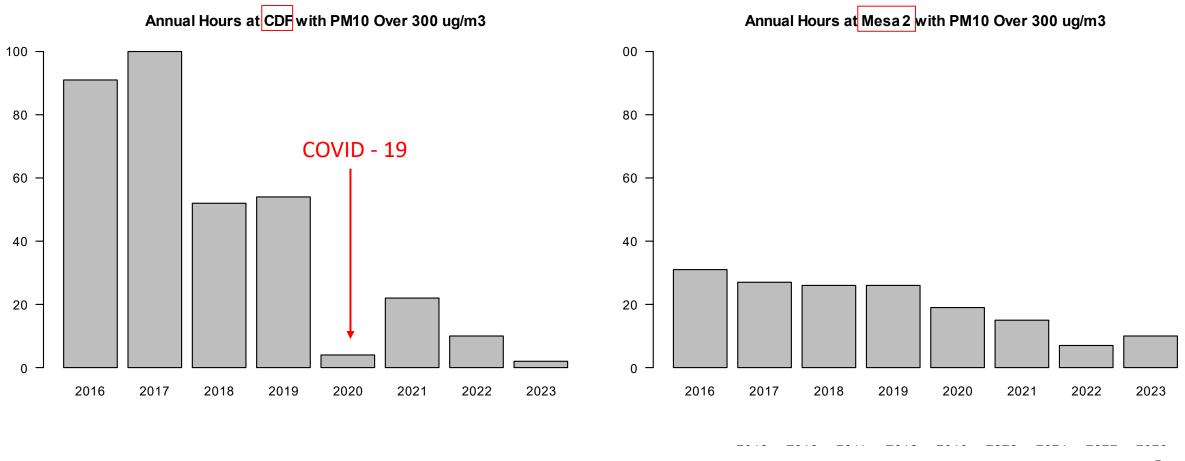
Air Quality Trends: Hours over 300 ug/m³



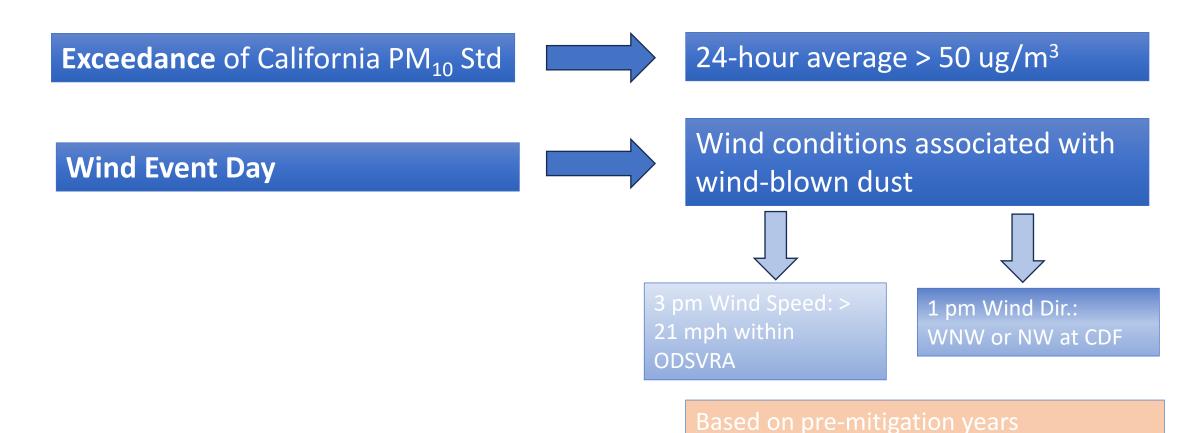




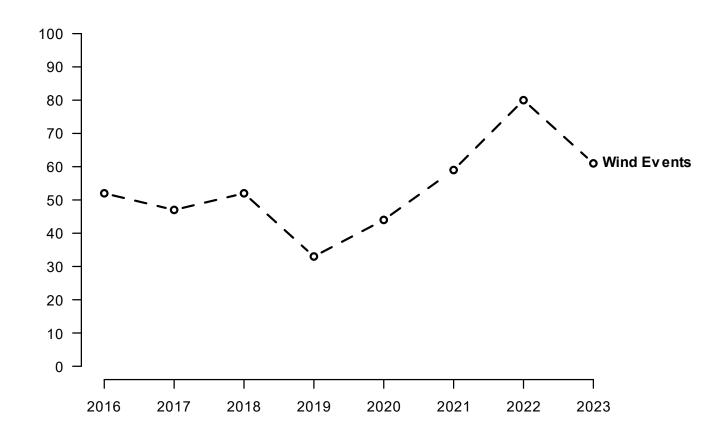
Air Quality Trends: Hours over 300 ug/m³





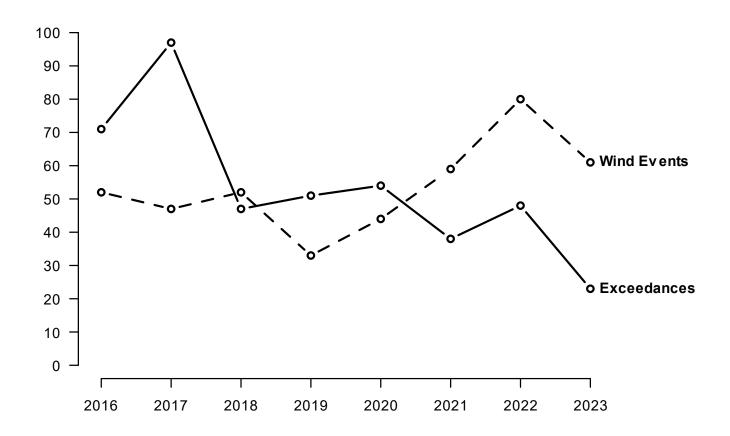






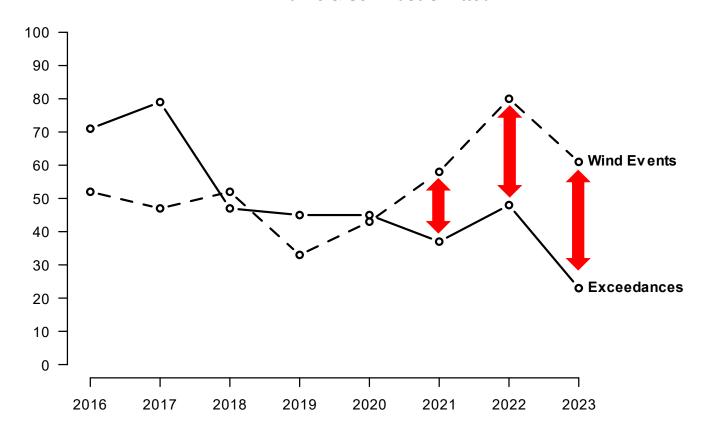


Wind Events and PM10 Exceedances at CDF





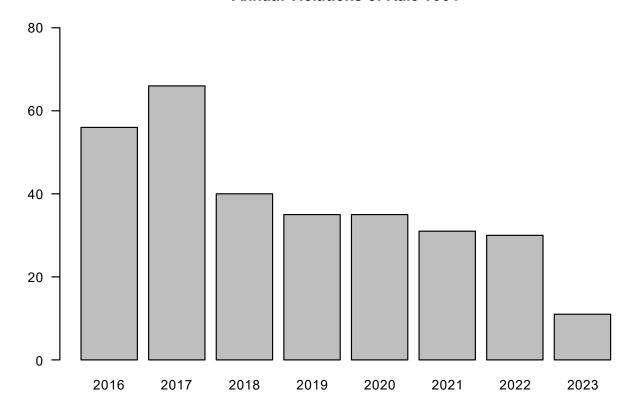
Wind Events and PM10 Exceedances at CDF Wildfire & SJV Dust Omitted





Air Quality Trends: Rule 1001

Annual Violations of Rule 1001



• Compare:

- CDF (downwind of riding)
- Oso Flaco (downwind of non-riding)

• Exceedance:

- CDF > 55 ug/m 3 and
- CDF > 20% above Oso Flaco



Air Quality Trends: Difference-in-Differences

- Focus only on wind-event days
- Remove Wildfire and SJV dust days
- Look at ratio of CDF (or Mesa2) to Oso Flaco
 - Implicitly controls for wind, non-ODSRVA impacts
- How does ratio change from year to year?
 - 2017 as baseline year
- See Annual Air Quality Report for details (on District website)
 - "Diff-in-diff" refers to type of statistical analysis



95% Confidence

-6.8% to -35.0%

+1.4% to -26.7%

+11.8% to -22.6%

+25.4% to -12.9%

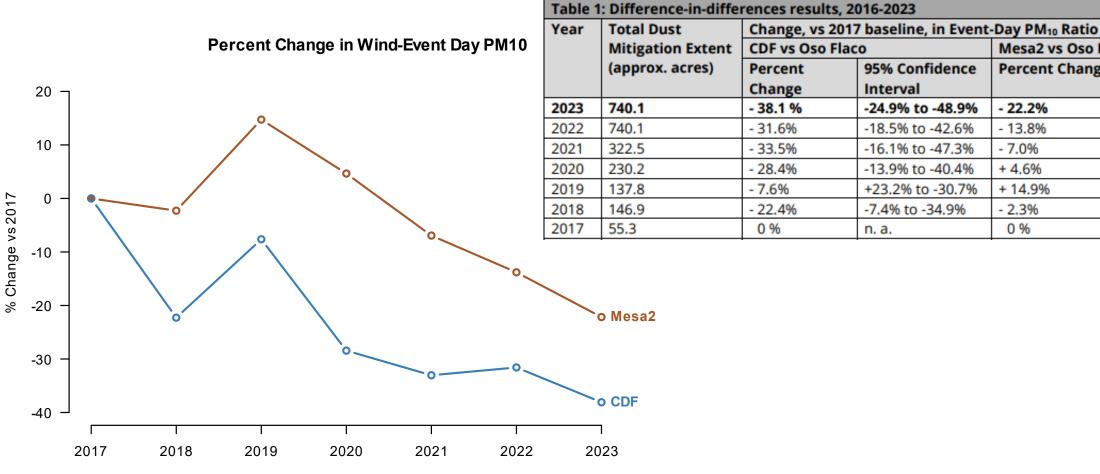
+41.4% to -6.7%

+14.3% to -16.4%

Interval

n. a.

Air Quality Trends: Difference-in-Differences



Mesa2 vs Oso Flaco

Percent Change

- 22.2%

- 13.8%

- 7.0%

+ 4.6%

+ 14.9%

- 2.3%

0 %

95% Confidence

-24.9% to -48.9%

-18.5% to -42.6%

-16.1% to -47.3%

-13.9% to -40.4%

+23.2% to -30.7%

-7.4% to -34.9%

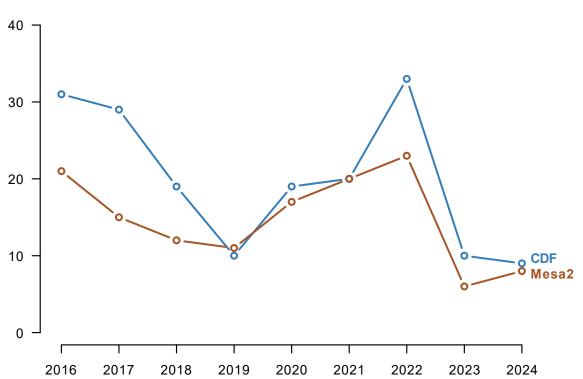
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Interval



Air Quality Trends: 2024 so far







Conclusions

- Multiple metrics all show continued improvement in air quality downwind of ODSVRA
- CDF more so than Mesa2
- Even as mitigation footprint remains constant
- 2024 looking good so far



