

BAY AREA

AIR QUALITY

MANAGEMENT

DISTRICT

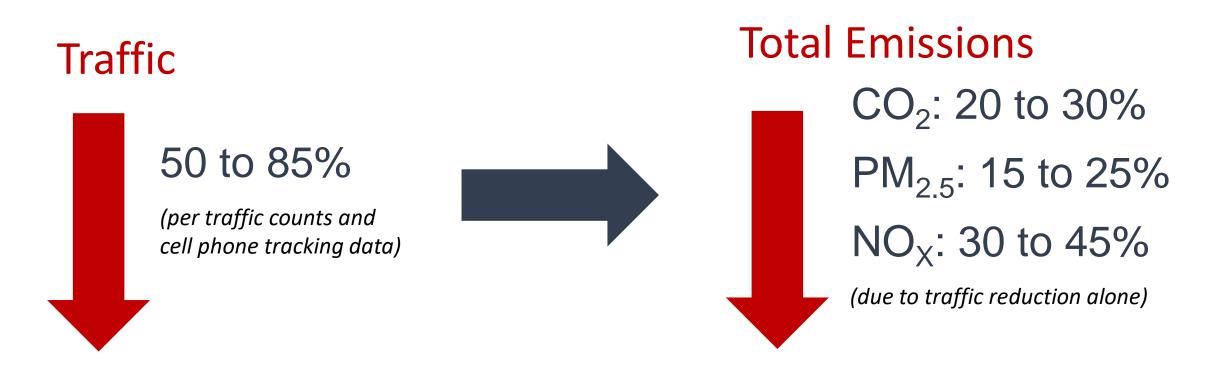
COVID, Shelter in Place, and Air Quality

SPUR: A Good Direction for Poor Air Quality July 7, 2020

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Traffic Down, Total Emissions Reduced (Early Data, Preliminary Estimates)

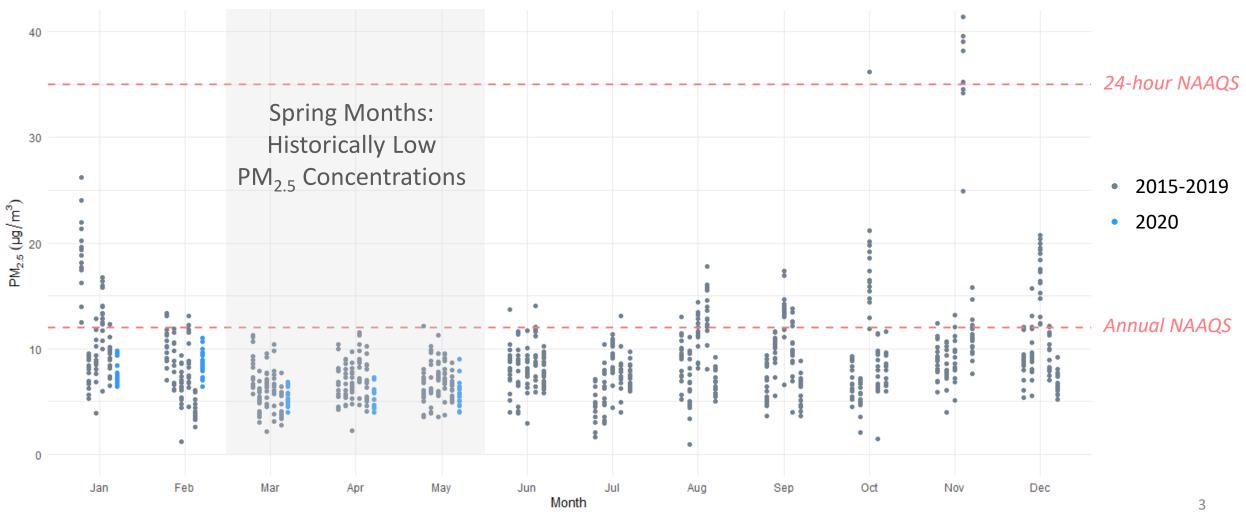




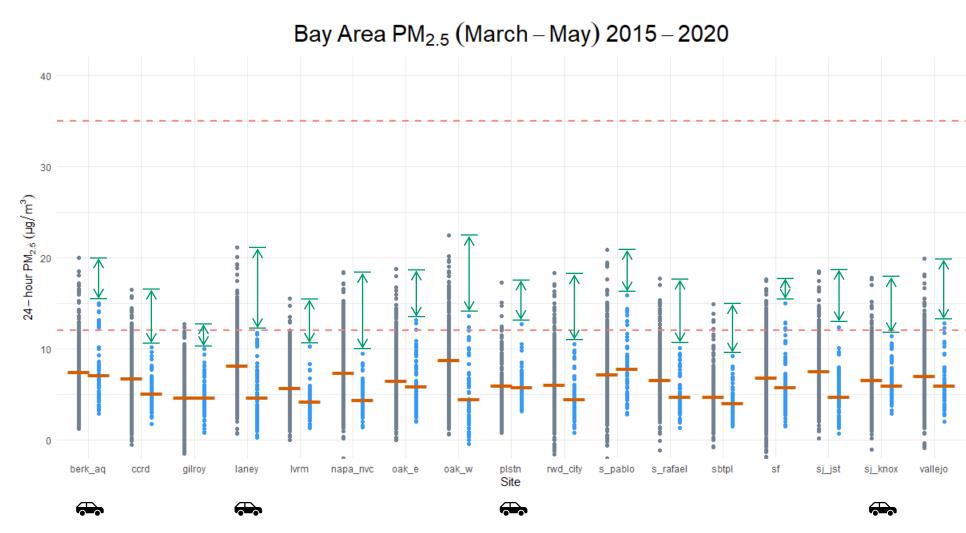
Air quality measurements are consistent, but weather helping too.

Monthly Average PM_{2.5}: 2020 vs. Previous Years

Monthly Average PM_{2.5} 2015 – 2020



Historical Comparison to Previous Spring Months (2015-2019)



All sites measuring fewer "high" concentrations; changes not uniform across Bay Area

Historical:

- (Mar May 2015-2019 & Mar 1 – Mar 15, 2020)
- Shelter-in-Place: (Mar 16 – May 31, 2020)
- Average Concentration
- Near-Road Site

Harvard Study – Air Pollution and COVID

- NYT 4/7/20: New Research Links Air Pollution to Higher Coronavirus Death Rates
 - Harvard study suggests exposure to high levels of pollution increase fatality rate from COVID
 - Increase of 1 ug/m³ in PM_{2.5} associated with 8% increase in COVID fatality rate
- Study very preliminary, not peer reviewed, various confounding variables
- Much more study needed on possible links between AQ and COVID
- But, we know that higher levels of fine particles have serious health effects, especially in disproportionately impacted communities

How Does Shelter in Place Inform AQ Planning?

- Telecommuting has exploded many firms and agencies are successfully working remotely
- Bicycle sales are booming, cities experimenting with closed streets for bikes/peds
- Transit ridership has plummeted, forecast is daunting
- Carpooling also down, slow rebound expected
- Ongoing COVID concerns suggest long-term effects on transportation behavior
- Equity concerns regarding workers whose jobs don't accommodate telecommuting and transit-dependent households
- Communities most vulnerable to COVID are also most vulnerable to air pollution

How Does Shelter in Place Inform AQ Planning? (2)

- Air District to provide remote work resources, join campaign to boost remote work long-term
 - Remote work resource clearinghouse: <u>https://www.baaqmd.gov/plans-and-</u> <u>climate/climate-protection/remote-work-policy-clearinghouse</u>
 - Spare the Air campaign to emphasize remote work
- Continue to support and expand local bike/ped initiatives
- Need to secure resources for transit districts in extreme financial crisis
- Need to address equity impacts, especially for transit-dependent
- Continue focus on improving AQ and health in disproportionately impacted communities – AB 617 Community Health Protection Program

Questions?

