

AIR QUALITY HEALTH BURDEN IN SAN FRANCISCO

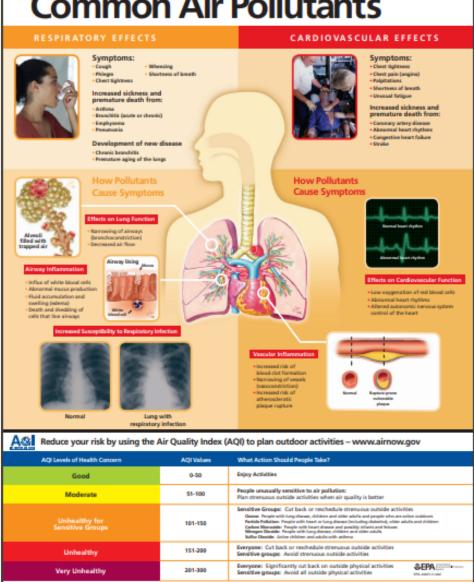




- KAREN COHN, MS, CIH ENVIRONMENTAL HEALTH BRANCH
- BAAQMD PUBLIC
 WORKSHOP ON AB 617
- JUNE 20, 2018

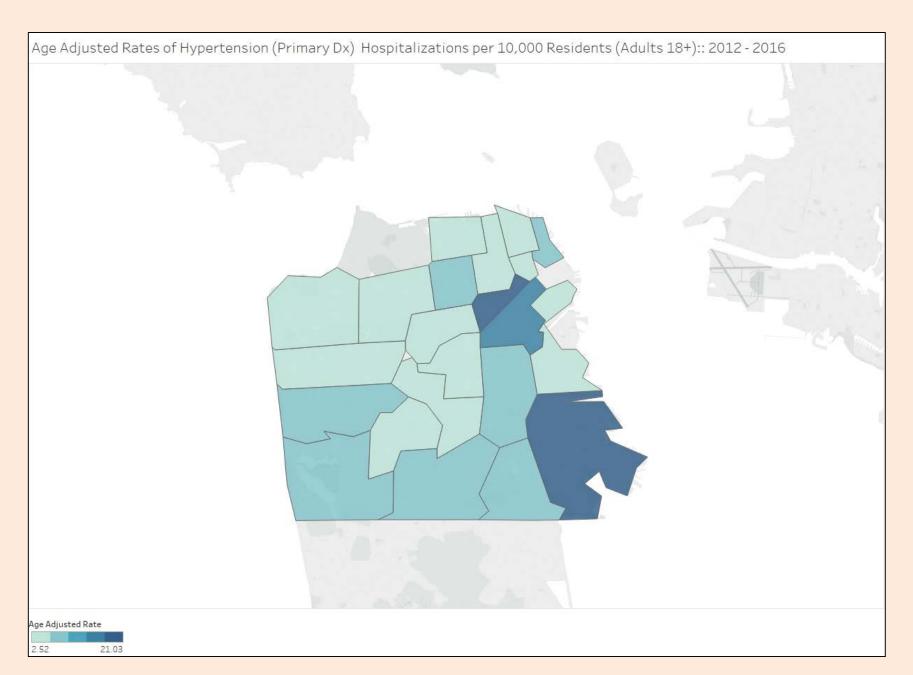


Common Air Pollutants

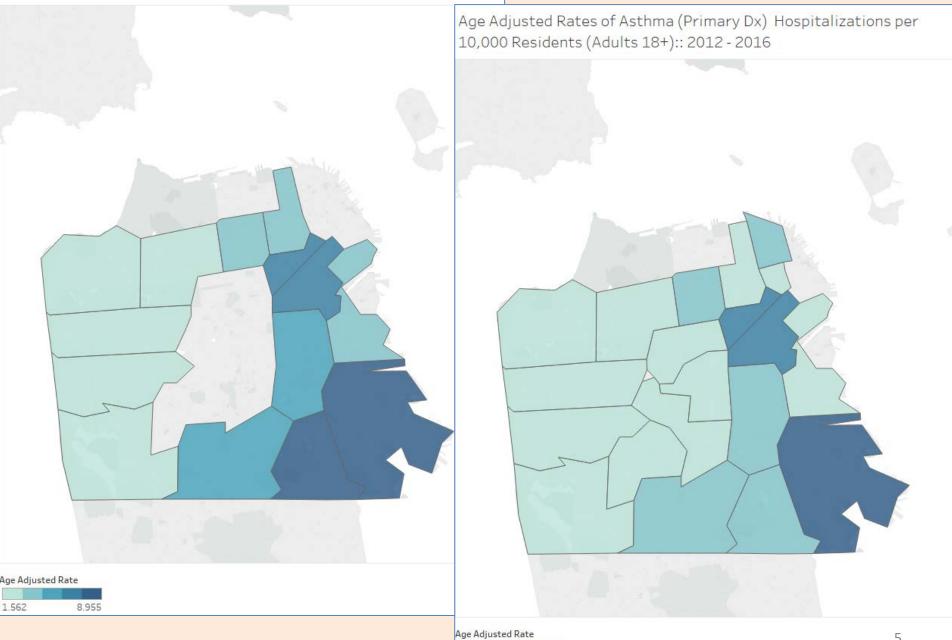




The SFHIP Collective Impact Partnership researches and publishes the Community Health Needs Assessment every three years: http://www.sfhip.org

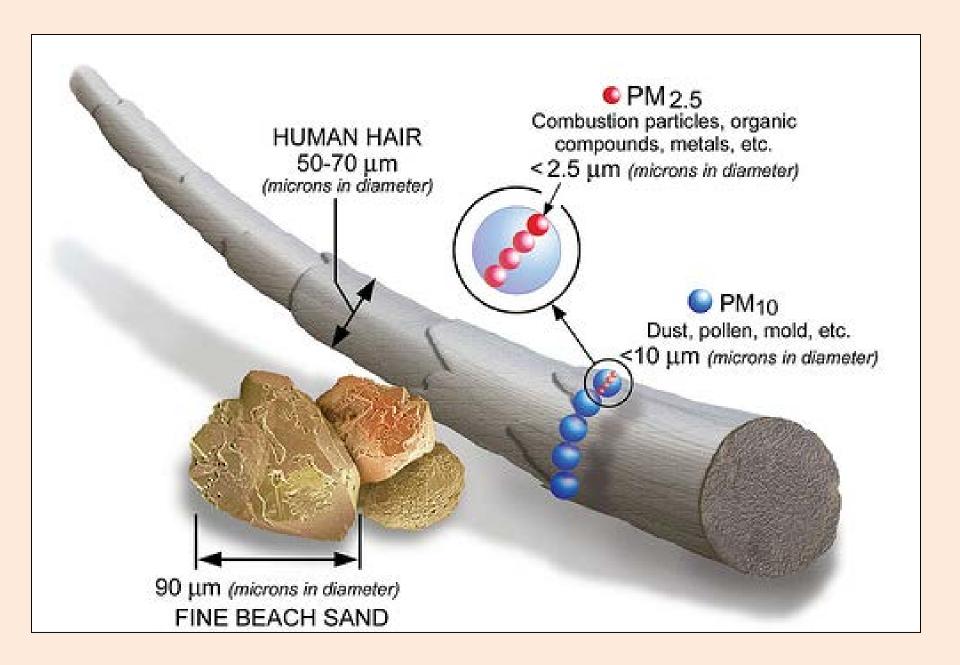


Age Adjusted Rates of Asthma (Primary Dx) Hospitalizations per 10,000 Residents (Minors 0-17):: 2012 - 2016



1.50

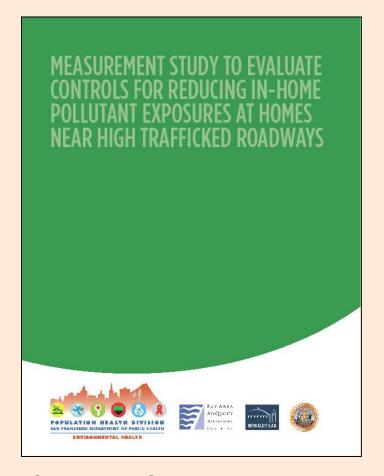
14.34









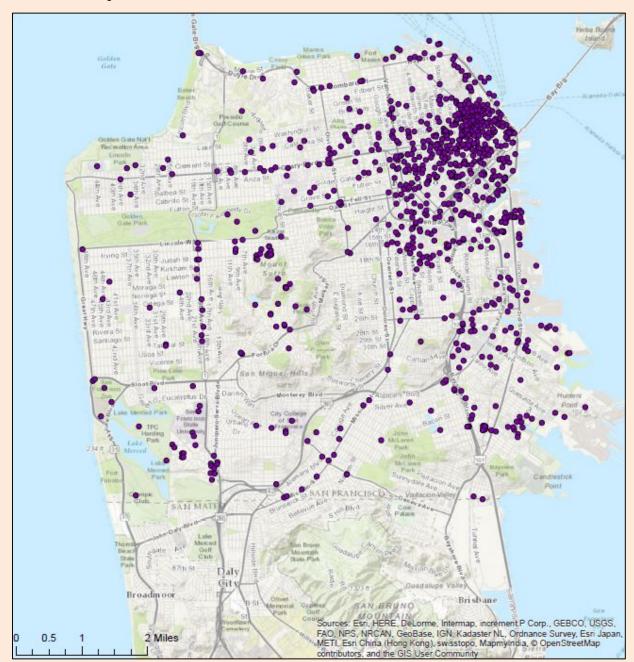


SFDPH-BAAQMD-Lawrence
Berkeley National Laboratory Air
Quality Research evaluating
interventions to reduce air
pollutants in homes near busy
roadways. *Posted on:*www.sfgov.org/asthma

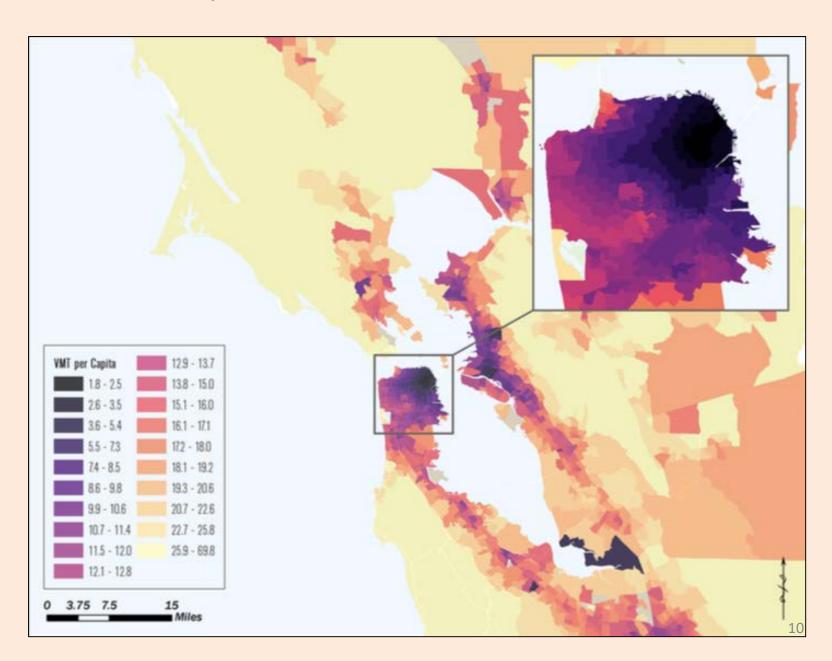




Permitted Stationary Sources



Mobile Sources: Roadways from SF-CHAMP





Emissions modeled from light and heavy vehicles as well as diesel fuel CalTrain



Emissions modeled from diesel fuel cruise ships, ferries and other port-based emission sources

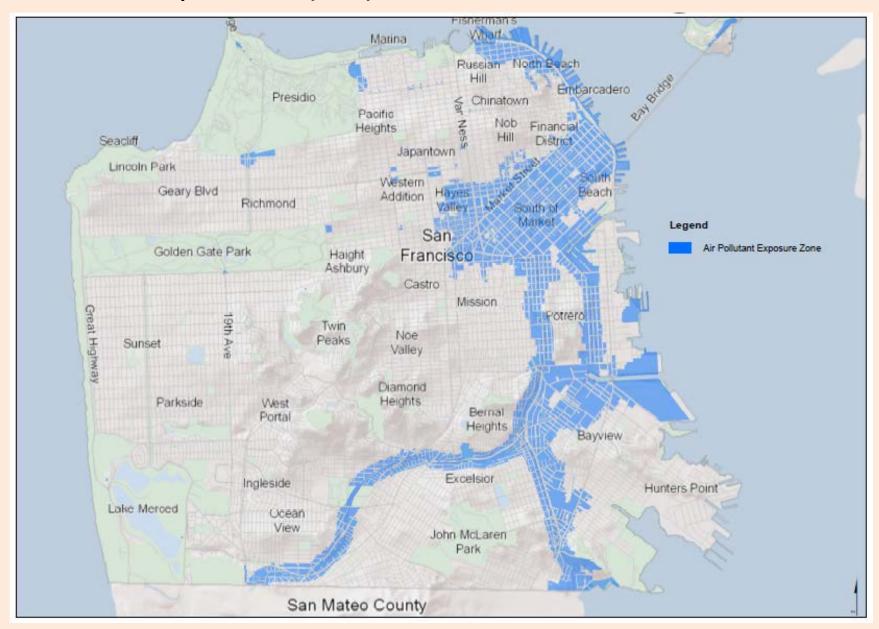


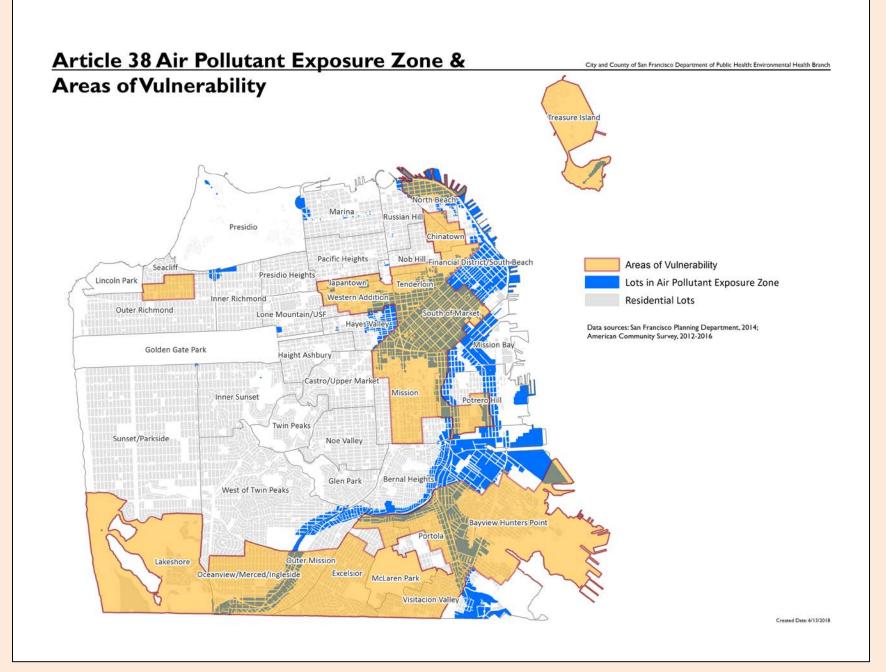


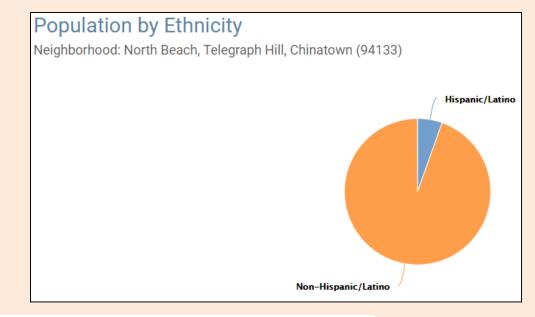


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Air Pollutant Exposure Zone (APEZ)

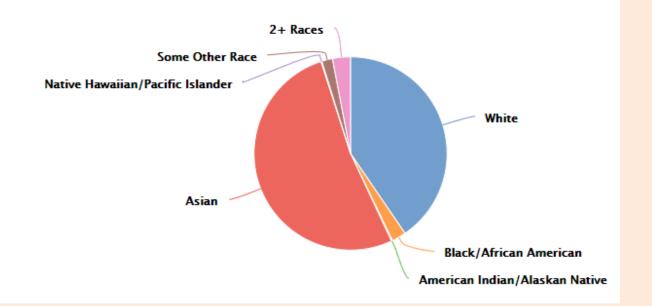


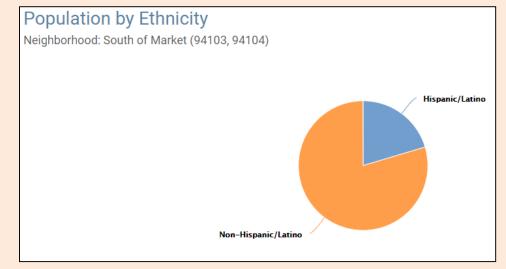


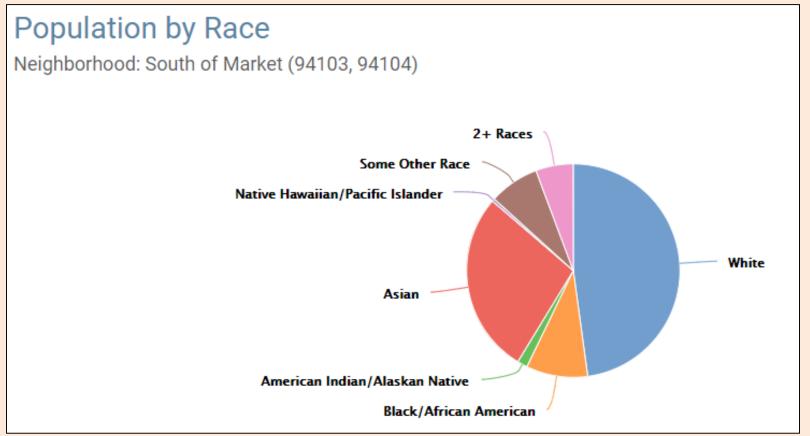


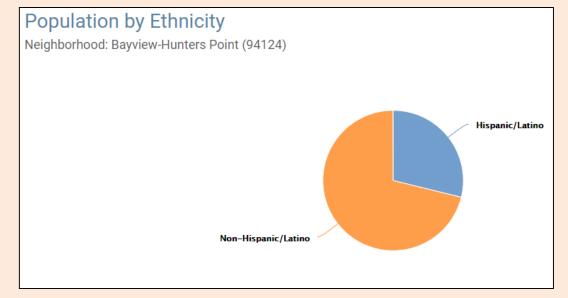
Population by Race

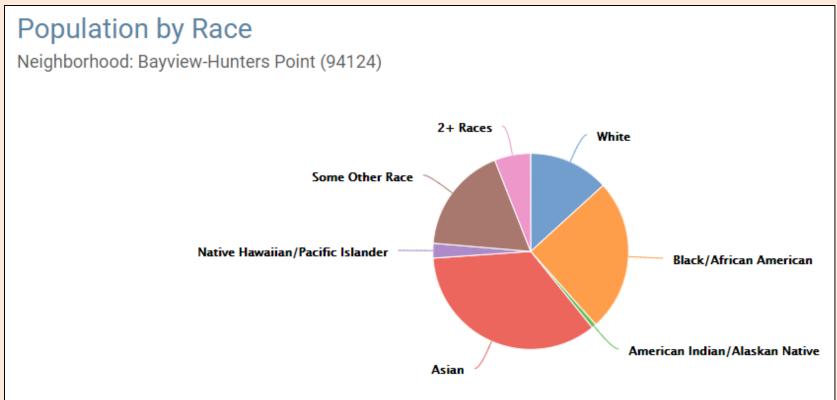
Neighborhood: North Beach, Telegraph Hill, Chinatown (94133)







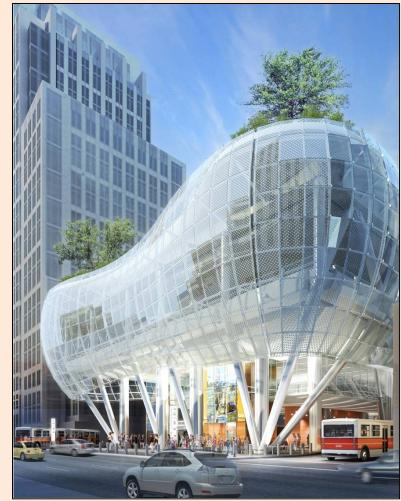




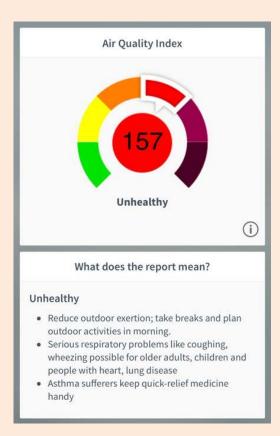
Emerging sources of concern: (1) Major Development

- SF Health Code Article 22B Requires DPHapproved Dust Control Plans.
- Modeling of the next SF Health Code Article
 38 APEZ due end 2019.
- Goal is to include emissions from major development: construction equipment emissions & number of vehicle trips.

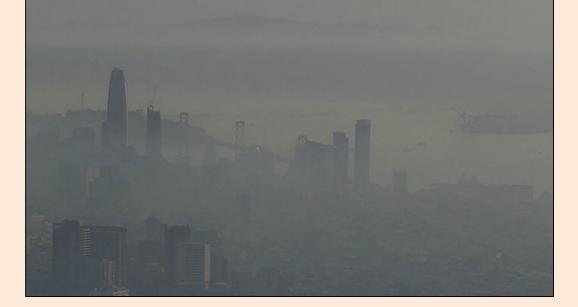


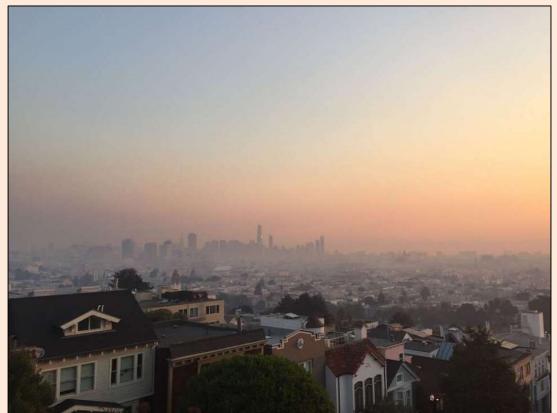


(2) Climate Health https://sfclimatehealth.org/

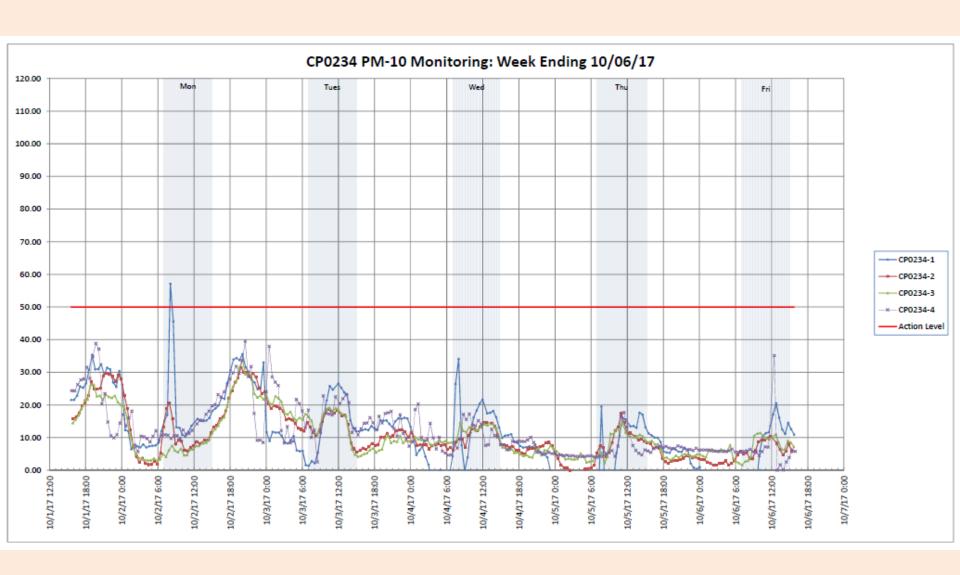


SF sky during Sonoma fires





Candlestick PM₁₀ monitoring data: Week before Sonoma fires



Candlestick PM₁₀ monitoring data: Week of Sonoma fires

