



3.3: Increase percent of population living where air quality meets federal standards from 92% to 100% by 2020



SUSTAINABLE ENERGY & A CLEAN ENVIRONMENT HEALTHY AIR

Department of Ecology
Stu Clark
Air Quality Program Manager

April 10, 2017



Background



PUBLIC HEALTH



**ECONOMIC IMPACT ON
BUSINESS**

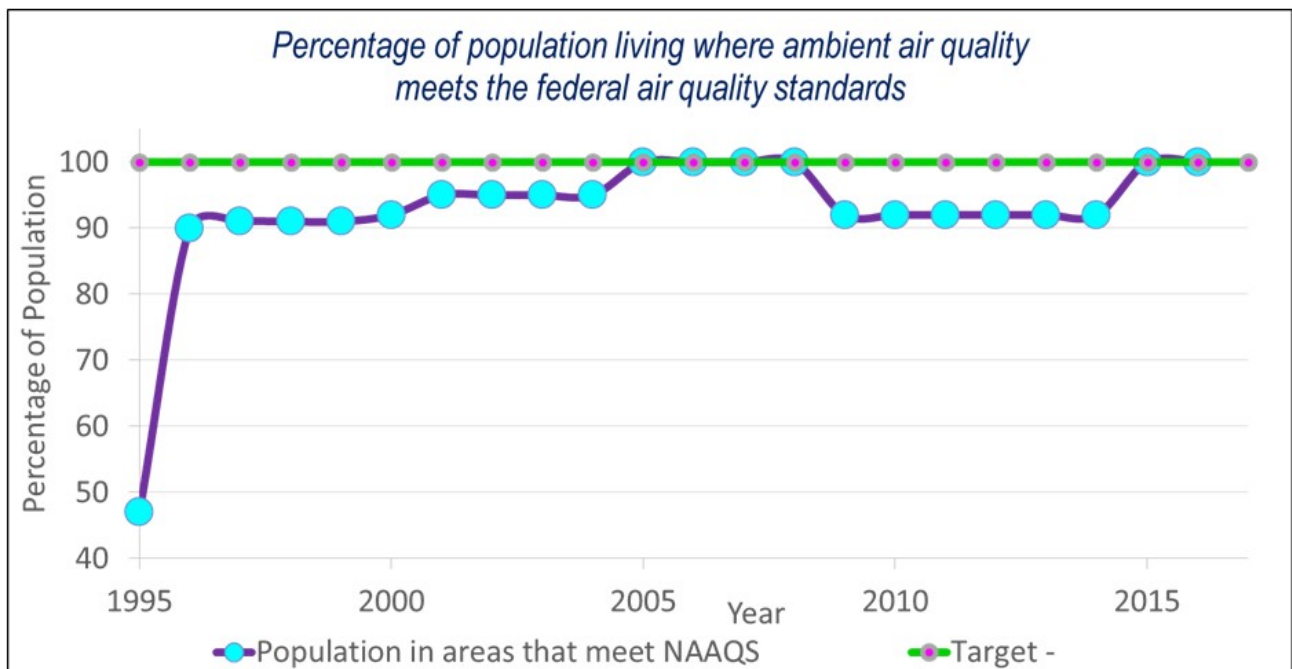


**LOCAL
GOVERNMENT**

4

Goal 3.3: Increase the percentage of population living where air quality meets federal standards from 92% to 100% by 2020

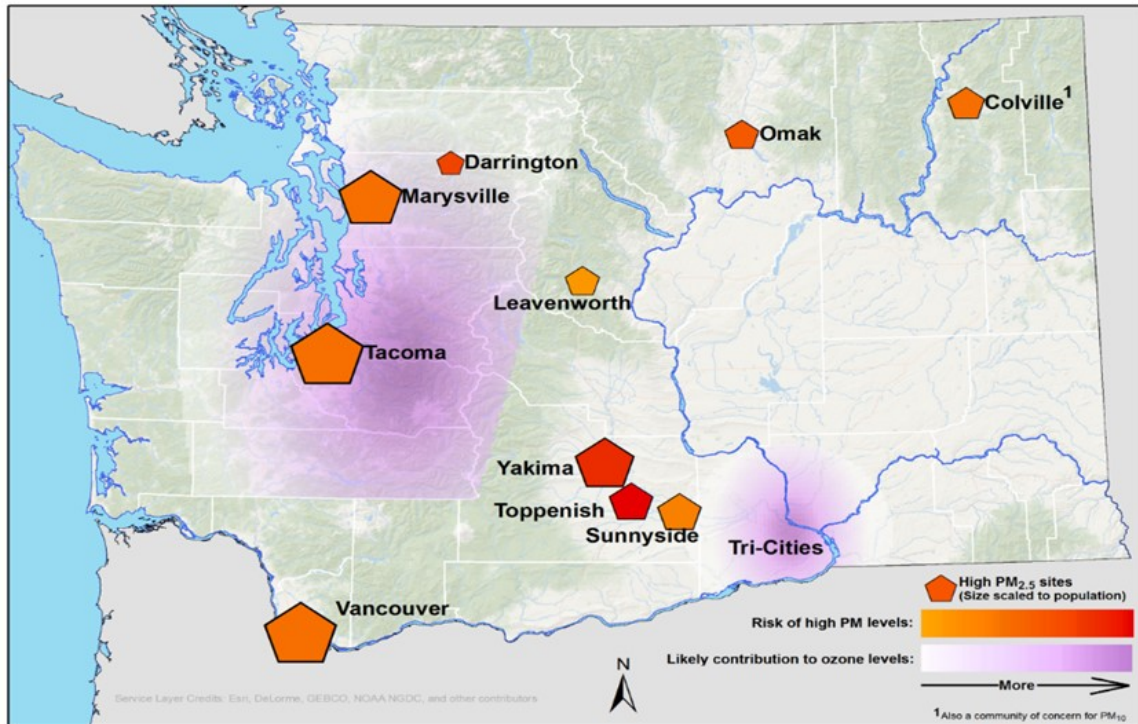
Current State: Entire state is meeting federal air quality standards



5

Challenges/Opportunities: 12 communities at risk

Areas of Concern for Particulate Matter and Ozone



March 2017



6

Approach



7

Example: Tri-Cities Ozone Precursors Studies



Sampling equipment deployed during the Tri-Cities Ozone precursors studies in August 2016.

8

3.3.a: Decrease tons of toxic diesel air pollution emitted from mobile sources from 6,444 tons in 2011 to 4,737 tons by 2017

Background: ~ 5 million people live near ports & transportation corridors



Locomotives



Vessels



Cargo handling



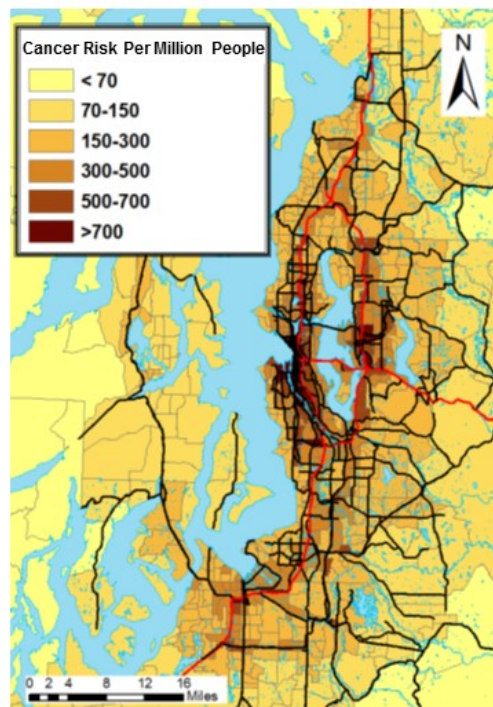
Diesel Trucks



School buses



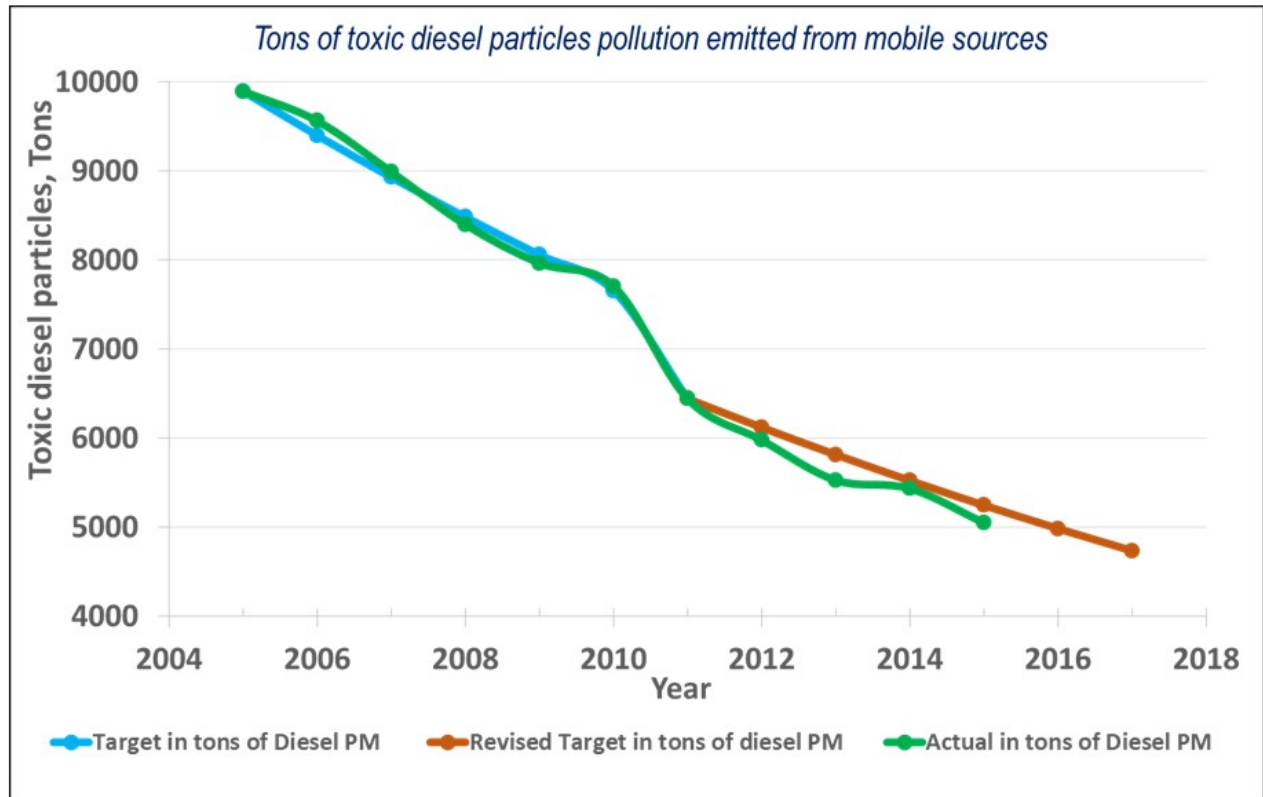
Emergency Response Vehicles



Potential air toxics cancer risk in the Puget Sound region.
EPA's 2005 NATA, by Census Tract
Using California EPA toxicity for diesel particulate matter

9

Current State: On track



10

Challenges

- Longevity of diesel engines
- Up to 5 million people exposed
- Potential changes in federal vehicle emission standards



Before (June 2015)

Opportunity

- Volkswagen Mitigation fund



*After (August 2016)
Tacoma Rail*

Clean Diesel Program 2003-2016

Number of engines retrofits and replacements funded = 14,356

Annual emission reduction = 4,884 tons/yr

Diesel fuel conserved = 425,558 gallons/yr

11

Strategies

OUR SUCCESS IS BUILT ON A THREE-STEP APPROACH

New clean diesel engines with advanced emission controls

Improved diesel fuels

Retrofit diesel emissions controls and accelerate fleet turnover

12

3.3.a: Decrease tons of toxic diesel air pollution emitted from mobile sources from 6,444 tons in 2011 to 4,737 tons by 2017

Success: School bus diesel grant program



13

3.3.a: Decrease tons of toxic diesel air pollution emitted from mobile sources from 6,444 tons in 2011 to 4,737 tons by 2017

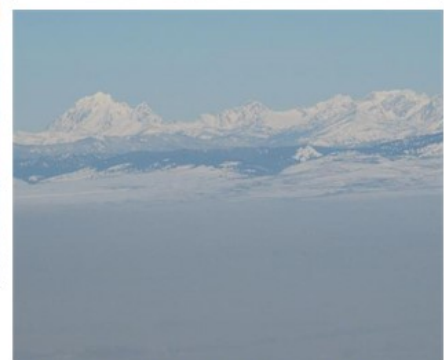
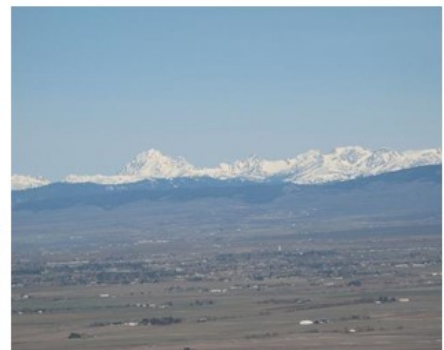
Success: Emergency response, port equipment, transit



14

3.3.b: Increase the number of woodstoves replaced with cleaner burning technologies to 5,500 by 2017

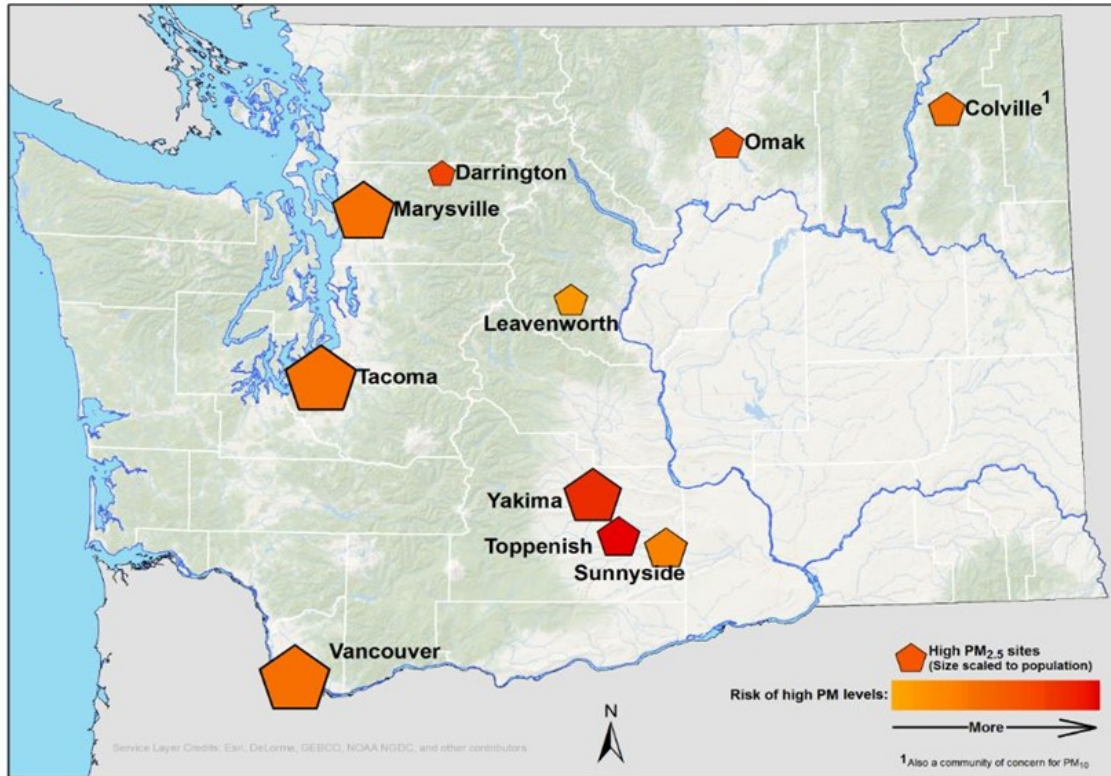
Background: Woodstoves: main source of air pollution in winter



Overlooking Kittitas Valley

15

Background: 10 Communities with high PM_{2.5} risk



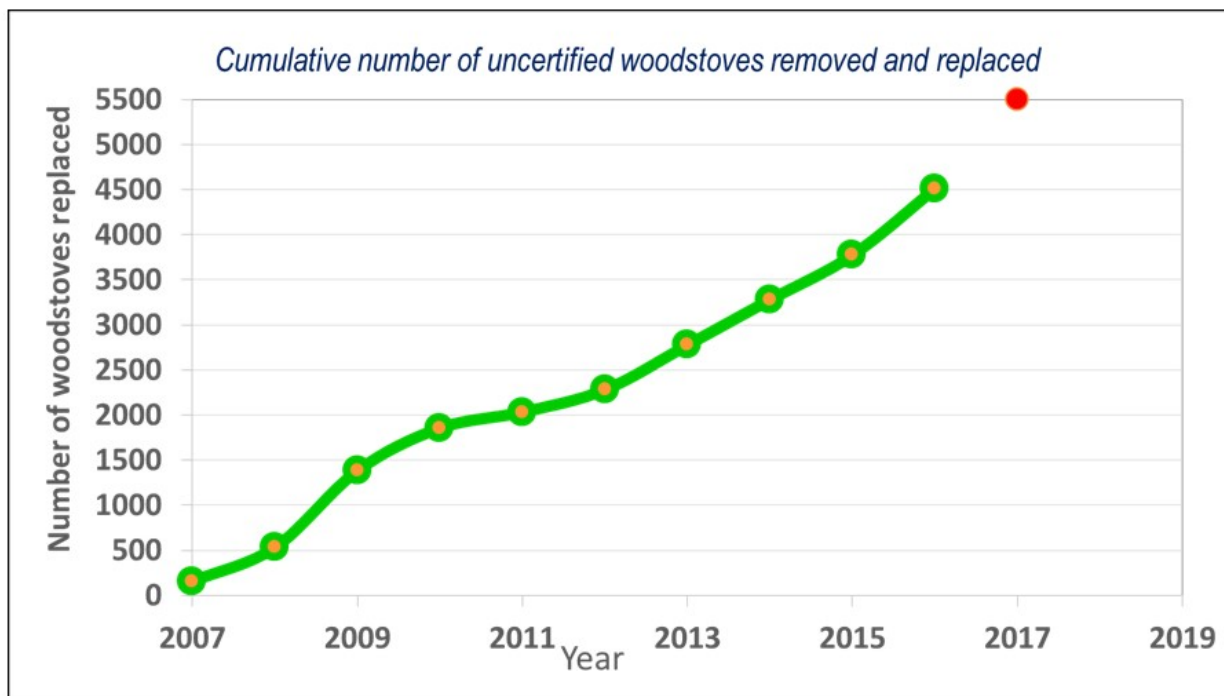
March 2017



16

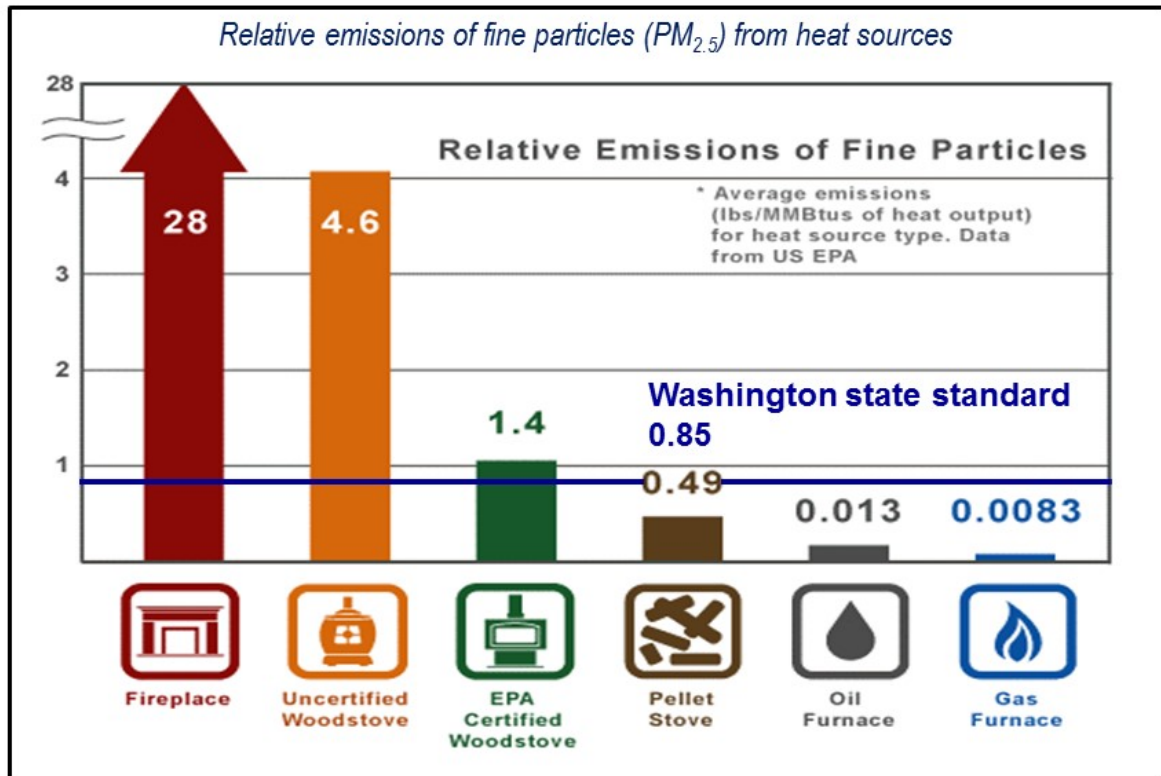
3.3.b: Increase the number of woodstoves replaced with cleaner burning technologies to 5,500 by 2017

Current State: On track



17

Strategies: Regulatory programs



18

Strategies: Woodstove changeout and bounty program



Before change out



After change out



Woodstove
Bounty

19

Challenges

- Public participation in woodstove programs
- Limited funding for woodstove grant programs

Opportunities

- Woodstove grants prevent violation of standard: Tacoma & Ellensburg

Improvements in PM_{2.5} pollution levels in some communities at risk of violation



20

Detailed Action Plan:

Tasks	Task Lead	Partners	Expected Outcome	Status	Due Date
3.3.a Decrease tons of toxic diesel air pollution emitted from mobile sources from 6,444 tons in 2011 to 5,500 tons by 2017					
Contingent on MTCA fund availability, obligate and spend 2015-2017 funds. The 2015-17 budget included \$1 million funding level.	ECY/AQP	Local clean air agencies, EPA, port districts, port tenants	Meet particulate matter and greenhouse gas emission reduction targets identified in the Northwest Ports Clean Air Strategy.	On-Track	06/30/2017
Contingent on MTCA fund availability, obligate and spend 2015-2017 funds. The 2015-17 budget included \$1 million funding level.	ECY/AQP	Local clean air agencies, fire districts & departments, school districts, private construction companies	Significantly reduce vulnerable citizen's exposure to diesel emissions. Reduce state and local government expenditures on fuel. Reduce greenhouse gases that contribute to climate change.	On-Track	06/30/2017
As included in Ecology's MTCA 10-year plan, secure 2017-19 biennial funding.	ECY/AQP	Office of Financial Management, State Legislature	Restore funding levels in the 2017-19 budget. Funding for the 2015-17 budget was reduced to \$1 million for this purpose.	On-Track	12/31/2016
3.3.b Increase number of woodstoves replaced with cleaner burning technologies from 2,777 in 2013 to 5,500 by 2017					
Shepherd budget requests to secure adequate funding to continue program at levels sufficient to protect community and public health.	ECY/AQP	Office of Financial Management, State Legislature	Restore funding levels in the 2017-19 budget.	On-track	06/30/2017
Work with local clean air agency recipients to assure grant funds are spent down or re-direct funds to communities that can spend funds before the close of the biennium. (Minimize re-appropriation of grant funds)	ECY/AQP	Local air pollution control agencies	Reductions in overall pollution measurements and numbers of days that pollution levels approach national ambient air quality standards.	On-track	06/30/2017
Work with Puget Sound Clean Air Agency to facilitate full spend out of grant funds in the current biennium. (Minimize re-appropriation of grant funds)	ECY/AQP	Puget Sound Clean Air Agency	Reductions in overall pollution measurements and numbers of days that pollution levels approach national ambient air quality standards. Area will maintain compliance with daily fine particle standard.	On-track	06/30/2017

21

[Contact Us](#) [Comment Policy](#) [Give Us Your Feedback](#) [Legislative Reports](#) [Apply Lean](#)

[Foster Performance Audits](#) [Measure Results](#) [Gov. Inslee's New Strategic Framework](#)

[Video Message from the Governor](#) [Printable Trifold about Results Washington](#)

[!\[\]\(666e09182d4cd268646ea700ea60dcdf_img.jpg\)](#) [!\[\]\(1ef1ef0bf9af6c6996401964cf280f2d_img.jpg\)](#) [!\[\]\(e9a80c8557f9285916925bd4ac40fff5_img.jpg\)](#) [!\[\]\(88e2edecff3400e68a80dd08c57d2f9c_img.jpg\)](#) [Powered By !\[\]\(b612b1233231807474dc279cea9675f1_img.jpg\) Socrata](#)