

Advancing Science & Practice in the Retail Environment

Tobacco Retailer Density

What it is, why it matters, and resources to help talk about it

August 25, 2020



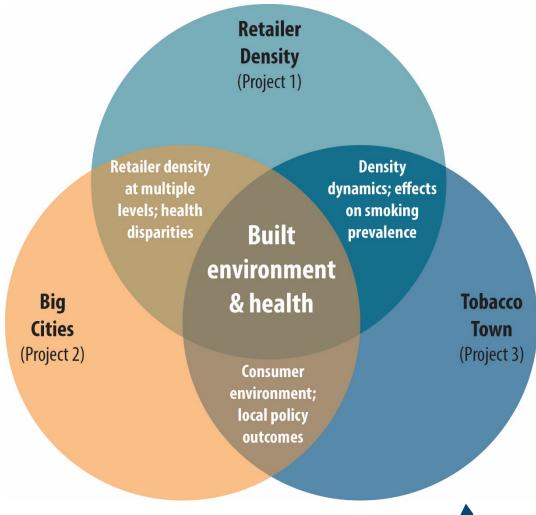






ASPIRE

- Goal: to build a rigorous, scientific evidence base for effective tobacco control in the retail environment to reduce the public health burdens of tobacco use
- 3 research projects
- 3 support cores
 - Administrative core
 - Data core
 - D&Icore





ASPiRE Community Advisory Board

30 Big Cities



Organizations



















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Advancing Science & Practice in the Retail Environment

Tobacco Retailer Availability – Why does it Matter for Health and Equity?

Texas Tobacco Control Funded Partners: August 25, 2020

Amanda Kong, PhD, MPH

University of North Carolina at Chapel Hill















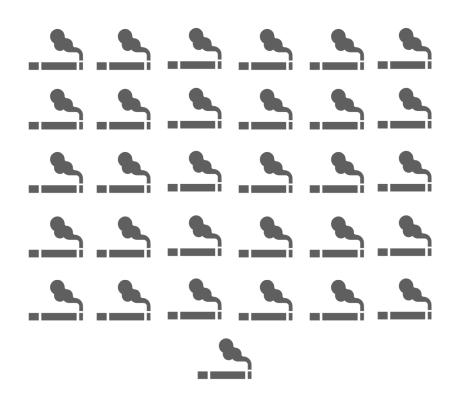




In 2017, there were approximately 355,000 tobacco retailers.

(UNC, Project 1)









In 2018, the tobacco industry spent over \$1 million/hour on tobacco product advertising and promotions.





We should be concerned about an inequitable distribution of tobacco retailers and marketing by neighborhood sociodemographic characteristics.



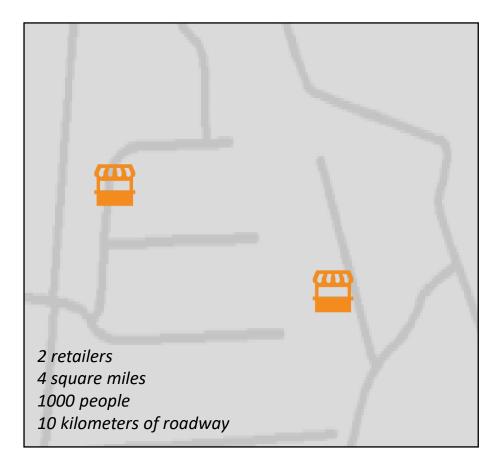


Tobacco retailer density is a measure of the availability of tobacco retailers in a geographic area.



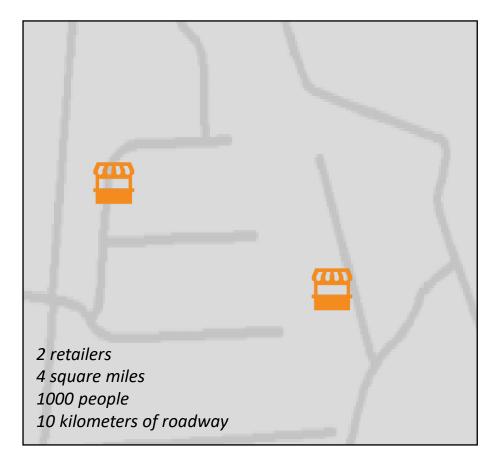






0.5 retailers per square mile





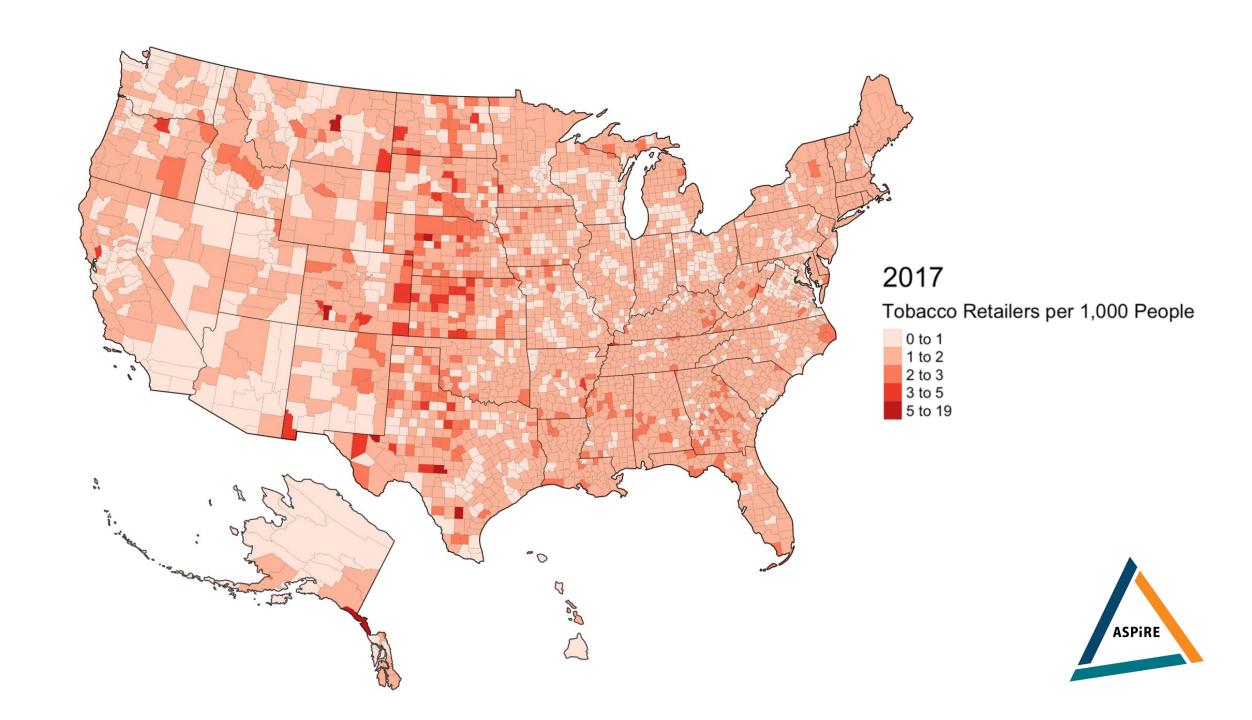
0.5 retailers per square mile2 retailers per 1000 people





0.5 retailers per square mile2 retailers per 1000 people2 retailers per 10km roadway





- 1. Clemens T, Tobacco Control (2018)
- 2. Henriksen L, Preventive Medicine (2008)
- 3. Robertson L, Tobacco Control (2016)
- 4. Lipton R, International Journal of Medical Sciences (2007)
- 5. Galiatsatos P, Tobacco Control (2018)
- 6. Lee JG, J Epidemiol Community Health (2017)
- 7. Lee JG, American Journal of Public Health (2015)
- 8. Kong A, Nicotine & Tobacco Research (2020)
- 9. Mills S, Health & Place (2018)



Smoking and cessation behaviors

Youth initiation, current smoking, impulse purchases₁₋₃

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Smoking and cessation behaviors	Youth initiation, current smoking, impulse purchases ₁₋₃
Health outcomes	COPD hospitalizations, life expectancy, mortality ₄₋₅

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- 3. Robertson L, *Tobacco Control* (2016)
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Smoking and cessation behaviors	Youth initiation, current smoking, impulse purchases ₁₋₃
Health outcomes	COPD hospitalizations, life expectancy, mortality ₄₋₅
Neighborhood sociodemographics	Socioeconomic status, racial composition ₆₋₉

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Key Takeaways



Tobacco retailers are abundant, and there is ample tobacco marketing at the point of sale.



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Tobacco retailer density and marketing are associated with smoking behaviors and related health outcomes.



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Tobacco retailer density and marketing are associated with smoking behaviors and related health outcomes.



There is an inequitable distribution of tobacco retailers and marketing, which may put some historically marginalized and minoritized groups at a higher risk of tobacco use and related disease.



Advancing Science & Practice in the Retail Environment

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Tobacco Retailer Density Fact Sheets

Texas Tobacco Control Funded Partners | August 25, 2020

Ilana Raskind, PhD | Stanford Prevention Research Center









ASPiRE 30 Big Cities





Tobacco retailer density fact sheets

Tobacco Retailer Density in Dallas

Retailer Fast Facts ▶ Dallas has 1,410 tobacco retailers, 24 times more retailers than McDonald's restaurants and 17 times more than Starbucks.

▶ 44.0% of tobacco retailers are within 500 feet of another tobacco retailer (~1 city block); average distance between a tobacco retailer and its nearest competitor is 1,026 feet (~2 city blocks).

Density Described

We can measure the density of tobacco retailers in several ways. Here, we compare three popular density measures (square mile, 10 roadway miles, and 1K population). Find the one that resonates best with you, your community, and other stakeholders.

Depending on the denominatorretailers per square mile, roadway miles. or populationdensity measures can look very different.

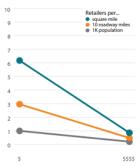
For each measure. we gathered data at the census tract level and found the median for all 30 ASPIRE CAB cities. See where your city falls.



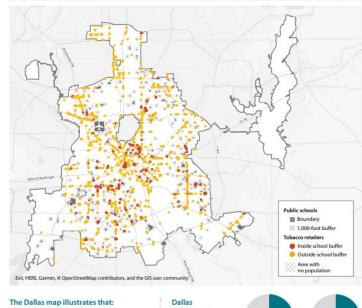
Density & Income Disparity

Lower-income neighborhoods (census tracts) typically have higher tobacco retailer density than higher-income neighborhoods. Sometimes this depends on which measure of density is used.

Here is the median tobacco retailer density for tracts with the lowest and highest quartiles of household income in Dallas:



Tobacco Retailers & Schools in Dallas



- ▶ 43.9% of public schools are within 1,000 ft of a tobacco retailer
- > 22.3% of tobacco retailers are within 1,000 ft of a school

has fewer schools near tobacco retailers than the 30-city





About these data: State licensing identified cigarette and tobacco retailers (State of Texas, Comptroller of Public Accounts, Aug. 2019). McDonald's and Starbucks obtained from AppData ADDIT Finals that shall see a community glamber or guarders are made to result of the community and th National Cancer Institute #P01-CA225597

One in six US adults lives in one of the 30 ASPIRE Community Advisory Board (CAB) cities. The cities vary with respect to state/local tobacco control policies and region. Products like this provide the 30 cities with readily usable snapshots of information on the consumer and built environments for tobacco in their cities and in comparison to the other cities. CAB representatives can use these products in communications with staff, policymakers, and other stakeholders.



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Suggested citation: Tobacco Retailer Density Fact Sheet for Dallas, TX (May, 2020), Advancing Science & Practice in the Retail Environment (ASPIRE, aspirecenter.org), funded by the

Ubiquitous









In Fort Worth there are:

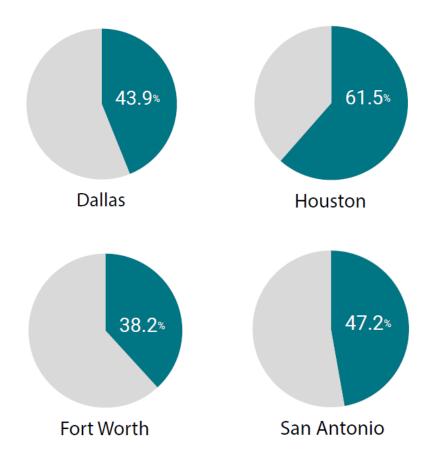
30x
more tobacco retailers than McDonald's





Located near schools







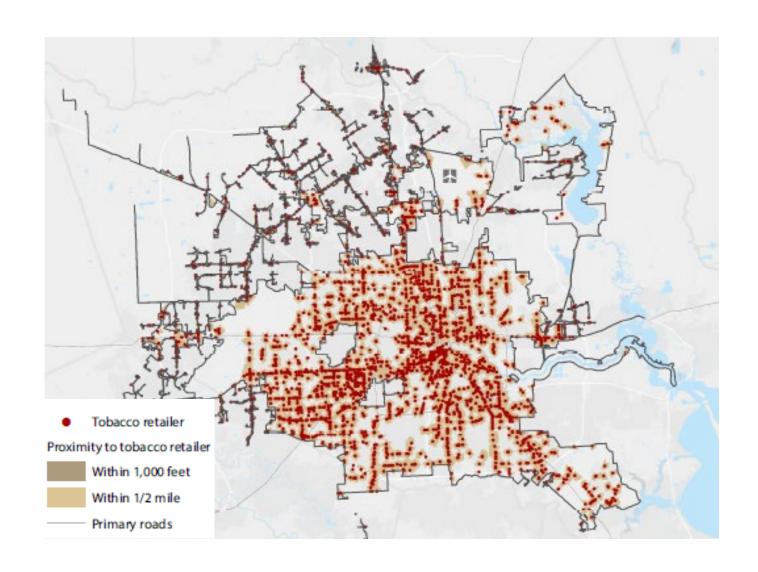
Easy to access

- On average, 70% of 30 city residents live within ½ mile of a tobacco retailer
 - 54% in Dallas
 - 49% in Fort Worth
 - 67% in Houston
 - 55% in San Antonio

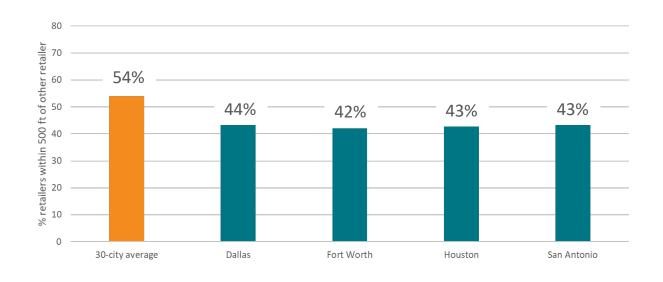


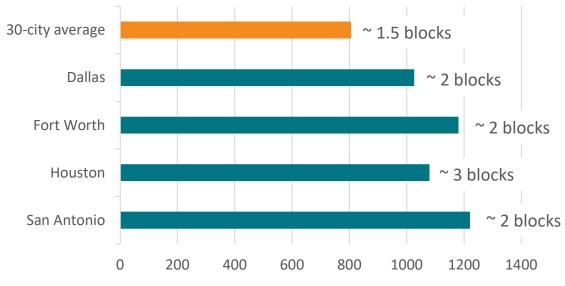
Houston, TX

- Tobacco swamps are areas with a glut of tobacco retailers
 - 18% of residents live within 1,000 feet of a tobacco retailer
 - 67% of residents live within ½ mile (~10-minute walk)



Clustered together



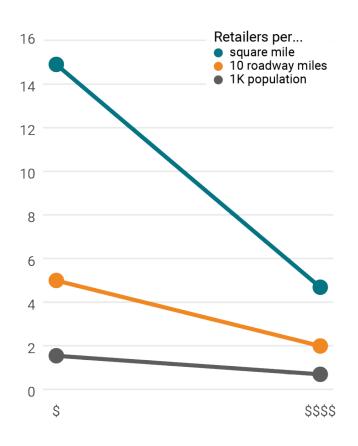


Avg distance between retailer and nearest competitor (feet)

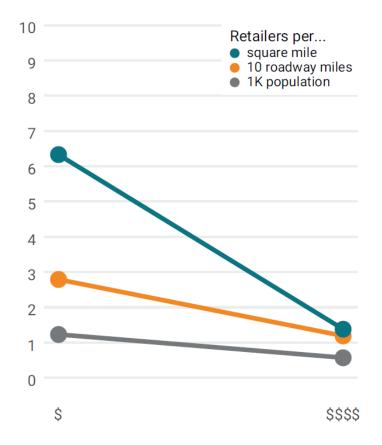


A note on measuring density

Here are the 30-city averages for median tobacco retailer density for tracts with the lowest and highest quartiles of household income:

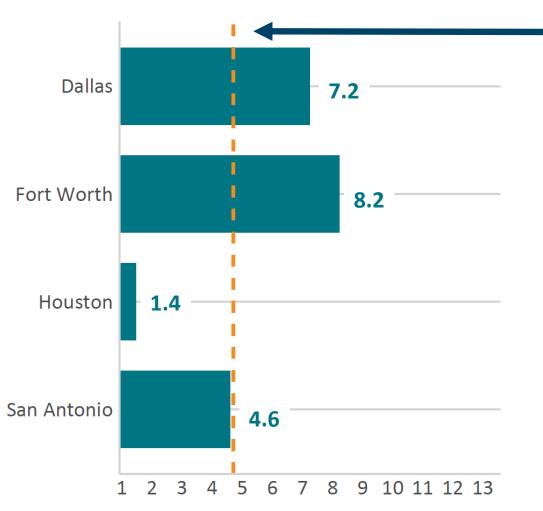


Here is the median tobacco retailer density for tracts with the lowest and highest quartiles of household income in **San Antonio**:





Concentrated in lower-income areas



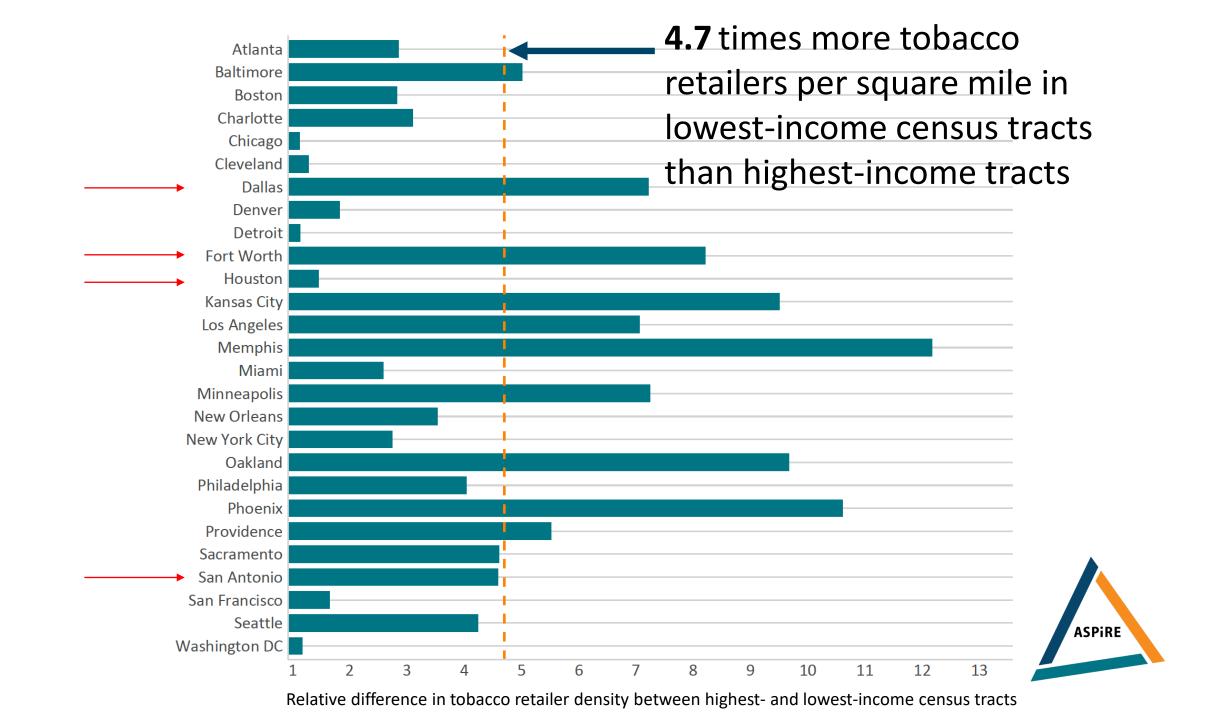
Relative difference in tobacco retailer density between highest- and lowest-income census tracts

4.7 times more tobacco retailers per square mile in lowest-income census tracts than highest-income tracts

Density and income inequities in **Houston**?

- How is neighborhood defined?
- Patterns of gentrification or other structural factors?





Key takeaways

- Tobacco retailers are:
 - Ubiquitous
 - Located near schools
 - Easy to access
 - Clustered together
 - Concentrated in lower-income areas



Helpful URLs

The ASPiRE Center: http://aspirecenter.org/

Tobacco Swamps Dashboard:
 https://aspirecenter.org/tobacco-swamps/

 Tobacco Retailer Density Fact Sheets and more: https://aspirecenter.org/tobaccoretailers/

 Go directly to all resources for your city: https://aspirecenter.org/dallas/

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