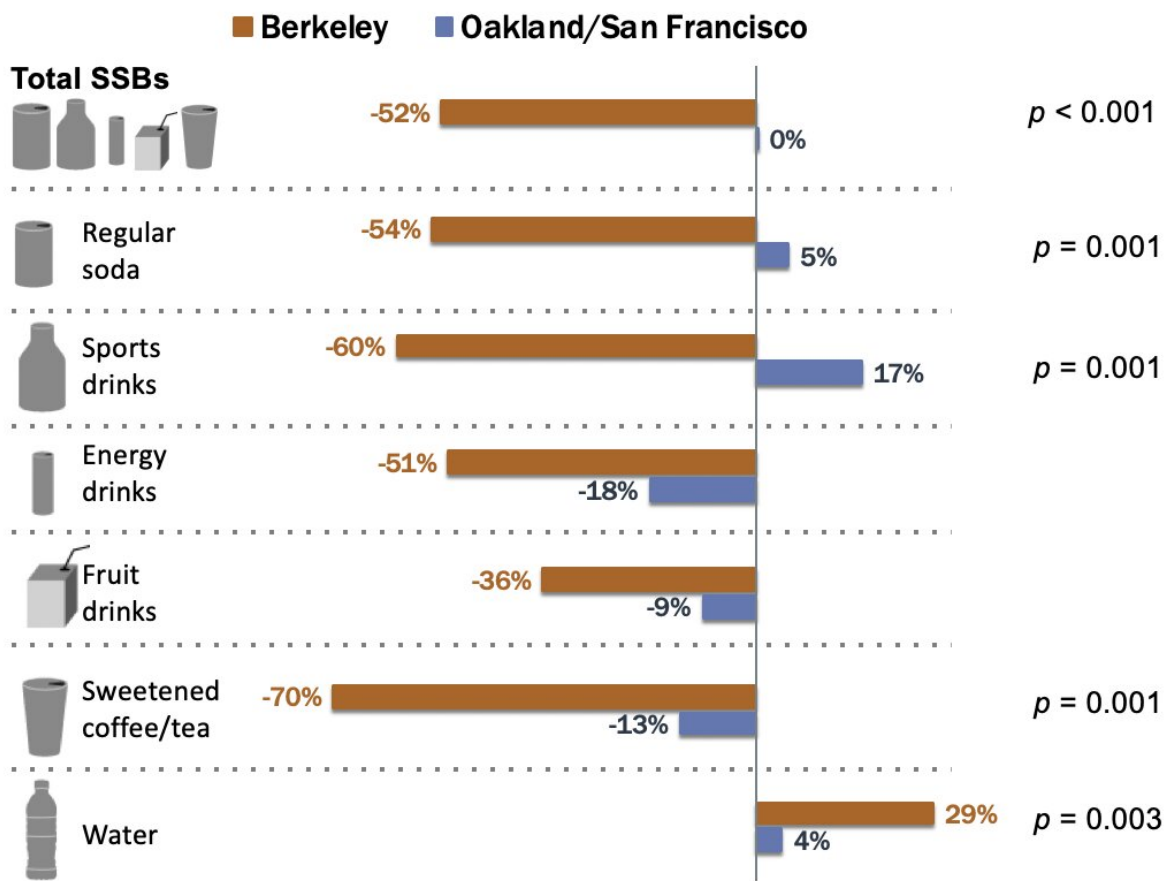


Three years into soda tax, sugary drink consumption down more than 50 percent in Berkeley

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Berkeley's residents reported drinking fewer soft drinks like Coke and Pepsi, sports drinks like Gatorade and Powerade, and sweetened teas and coffees in the

three years after the city enacted the nation's first "soda tax." Credit: UC Berkeley graphic by Kristine Madsen

Consumption of sugary drinks in Berkeley's diverse and low-income neighborhoods dropped precipitously in 2015, just months after the city levied the nation's first soda tax on sugar-sweetened beverages.

Three years later, residents in these neighborhoods reported drinking 52 percent fewer servings of sugary drinks than they did before the tax was passed in November 2014, shows a new report from the University of California, Berkeley. This drop more than doubles the 21 percent decline found in 2015. Water consumption also saw a bump, going up 29 percent over the three-year period.

The study, which is the first to document the long-term impacts of a soda tax on drinking habits in the United States, provides strong evidence that soda taxes are an effective tool for encouraging healthier drinking habits, with the potential to reduce sugar-linked diseases like diabetes, heart disease and tooth decay.

"This just drives home the message that soda taxes work," said Kristine Madsen, faculty director of the Berkeley Food Institute in UC Berkeley's School of Public Health. "Importantly, our evidence comes from low-income and diverse neighborhoods, which have the highest burden of diabetes and cardiovascular disease, not to mention a higher prevalence of advertising promoting unhealthy diets."

The study, which appears Feb. 21 in the *American Journal of Public Health*, comes at a critical time for jurisdictions considering soda taxes. While a number of cities, including Philadelphia and Seattle, now have soda taxes on the books, both California and Washington state passed

bills in 2018 that ban municipalities from putting future soda taxes in place.

The bulk of Berkeley's soda tax revenue is dedicated to supporting nutrition education and gardening programs in schools and to local organizations working to encourage healthier behaviors in the community.

"Sugar-sweetened beverages, which are linked to obesity, diabetes and cardiovascular disease, cost our nation billions of dollars each year, but they are super-cheap. They'd cost much more if the [health care costs](#) were actually included in the price of the soda," Madsen said. "Taxes are one way of taking those costs into account."

Madsen is leading a team that has been tracking the drinking habits of residents of low-income and diverse neighborhoods in Berkeley since 2014, when 76 percent of voters came out in favor of levying a penny-per-ounce tax on all sugar-sweetened beverages.

While the excise tax is levied on distributors, rather than directly on consumers, subsequent studies have shown that retailers incorporated the higher costs into the shelf price of the drinks.



To learn about the city's drinking habits, the team polled residents at high-traffic intersections in diverse and low-income neighborhoods in Berkeley, Oakland and San Francisco. Credit: UC Berkeley photo by Kristine Madsen

To find out about residents' drinking habits, the team polls around 2,500 people each year in high foot traffic intersections in racially and demographically diverse neighborhoods across Berkeley, Oakland and San Francisco.

The so-called street intercept surveys revealed a steep drop in sugar-sweetened beverage consumption in Berkeley between 2014 and 2017. The decrease was seen overall for [sugary drinks](#), and specifically for soft drinks like Coke and Pepsi, sports drinks like Gatorade and Powerade, and sweetened teas and coffees.

Residents of neighboring Oakland and San Francisco drank about the same number of sugary beverages in 2017 as they did in 2014, suggesting that these changes were unique to Berkeley and not signs of a regional trend in drinking habits unrelated to the tax.

Oakland and San Francisco have since enacted their own soda taxes, which went into effect in mid-2017 and 2018, respectively.

The study does have its limitations, Madsen cautions. Street intercept surveys do not provide a random sample of residents, and Berkeley is a relatively small and highly-educated city.

And price hikes may not be the only driving factor behind the change, Madsen says. Taxes also send a message about societal values, which can have a big impact on consumer behavior.

"There are some earlier studies out of Berkeley that suggest that the messaging alone is effective at reducing consumption," Madsen said. "But people are still very much affected by what hits their pocketbooks."

However, the similarity between these results and other long-term results in Mexico, which also saw increased effects of its [soda](#) tax over time, suggest that these measures can be a powerful tool in the fight against diabetes, [cardiovascular disease](#) and obesity.

"I really want to push back against this idea that taxes are the sign of a nanny state," Madsen said. "They are one of many ways to make really clear what we value as a country. We want to end this epidemic of diabetes and obesity, and taxes are a form of counter-messaging, to balance corporate advertising. We need consistent messaging and interventions that make healthier foods desirable, accessible and affordable."

More information: *American Journal of Public Health* (2019). [DOI: 10.2105/AJPH.2019.304971](https://doi.org/10.2105/AJPH.2019.304971)

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