SOFT DRINK TAXES
A Policy Brief
SOFT DRINK TAXES

Why Consider Them?
Sugar-sweetened beverages with little or no nutrition are staples of today’s American diet. These beverages are inexpensive, in abundant supply, and appeal to our taste for sugar. They are heavily marketed, especially to children, often using celebrities, sports stars, and cartoon characters. More than for any category of foods, rigorous scientific studies have shown that consumption of soft drinks is associated with poor diet, increasing rates of obesity, and risk for diabetes. These links are strong for children.

Chronic diseases related to poor diet cost the country billions of health care dollars each year and are complex problems which must be addressed with multi-faceted strategies. Taxing certain classes of products to reduce consumption has been proposed as one means of improving the nation’s nutrition, raising revenue for health programs, and recovering costs caused by consumption of calorie-dense, nutrient-poor foods.

Policy makers across the country who are concerned about nutrition are considering the implementation of soft drink taxes to complement other public health initiatives.

Thirty-three states now have sales taxes on soft drinks, but the taxes are too small to affect consumption, in many cases consumers do not know they exist, and revenues are not used for nutrition programs.¹

What Would Taxes Accomplish?
Taxes on soft drinks can be conceived with two goals: raising revenue and changing consumption. They can:

- raise considerable funds to be earmarked for nutrition initiatives such as subsidies of healthy foods or programs in schools;
- raise the relative price of unhealthy beverages thereby discouraging their consumption;
- decrease sales of those beverages, and influence demand for healthier alternatives, which may encourage beverage manufacturers to reformulate their products;
- convey the message that government and policy makers are concerned about nutrition and the public’s health.

Issues Concerning Soft Drink Taxes and Results of Scientific Research

ISSUE: CONSUMPTION AND HEALTH EFFECTS

A substantial increase has occurred in the consumption of soft drinks since the 1970s, now averaging 50 gallons per person per year.

Consumption

- A 2004 study found that soft drinks are the single largest contributor of calorie intake in the United States.⁴
- U.S. per capita consumption of calories from sugar-sweetened beverages doubled between 1977-2002 across all age groups;² children and adults consume about 172 and 175 calories daily, respectively, per capita from these beverages.⁶ Further, traditional carbonated drinks are losing market share, while beverages like sports drinks, energy drinks, and sweetened waters and teas are showing significant growth in the marketplace.⁷
- The percentage of beverage calories from sweetened beverages consumed by 2-18 year olds has increased, while the percentage from milk has decreased. In the mid-1990s the intake of sugared beverages began surpassing that of milk.⁸

Revenue Potential

- A national tax of 1 cent per ounce on sugar-sweetened beverages would generate at least $14.9 billion in the first year alone.² Placing this in context, this is thirty times the amount the nation’s largest funder of work on childhood obesity is spending in five years.
- A proposed sales tax of 18% on soft drinks in New York State was projected to bring in $400 million in the first year and close to $540 million thereafter.³
Sugar-sweetened beverage consumption is highest among groups that are at greatest risk of obesity and type 2 diabetes. Research suggests that people compensate less well for calories that come in beverages compared to calories in solid food; hence the large increase in calories from beverages is a matter of great concern. Effects on Health

For children, each extra can or glass of sugar-sweetened beverage consumed per day increases their chance of becoming obese by 60%. A 2009 California study found that adults who drink one or more sodas per day are 27% more likely to be overweight or obese than those who do not drink soda. A 2009 study found a reduction of sugar-sweetened beverage intake was significantly associated with weight change. Women who regularly consume sugar-sweetened beverages have a higher risk of coronary heart disease.

Systematic reviews of evidence conclude that greater consumption of sugar-sweetened beverages is associated with increased calorie intake, weight gain, diabetes, and obesity. Papers not showing this effect are generally funded by the beverage or sugar industries.

ISSUE: PRICE

Price changes affect purchases and consumption.

Effect on Purchase and Consumption

Based on the best estimates to date of the responsiveness of demand for soft drinks to changes in price, a 10% tax could result in about an 8% reduction in consumption. The effects could be higher for heavy users of soft drinks.

Based on November 2008 price increase and volume sales information on Coca Cola and Pepsi sales in the U.S., demand for soda is “elastic” (-1.15) meaning that a 10% tax would reduce consumption by 11.5%.

ISSUE: TAXING

Taxing alcohol and cigarettes has proven to be highly successful in reducing consumption. Major health benefits have been realized from tobacco taxes. Numerous economic studies conclude that every 10% increase in the real price of cigarettes reduces consumption by:

- 3 to 5% overall;
- 3.5% among young adult smokers;
- 6 to 7% among children.

Major health benefits have been realized from tobacco taxes.
Policy Recommendations

TAX CONSIDERATIONS

Excise tax (fee per ounce)

- **Advantages**
  - consumers see the increased price at the point of purchase;
  - can be imposed at the bottler, distributor, wholesaler, or importer level, making it easier to collect;
  - does not change if industry reduces prices;
  - will include the syrup used in fountain drinks;
  - generates more stable and predictable revenues;
  - avoids the problem of encouraging consumers to buy larger containers.
- **Special note**
  - Taxes should be indexed to inflation to avoid erosion of the impact as prices rise.

Sales tax (percentage of product’s price).

- **Advantage**
  - rises with inflation.
- **Disadvantages**
  - may encourage consumers to buy larger containers because the cost per ounce is lower, so the tax per ounce would be lower as well;
  - retailers, especially small ones without computerized cash registers, may be inconvenienced by having to charge taxes on some beverages and not others. This may motivate them to become spokespersons for opposition or repeal.

In states where sales taxes are lower for groceries than for other goods, soft drinks should be taxed just like other consumer goods and not given a special lower rate reserved for food necessities.

Exempting diet beverages from taxes

- **Advantage**
  - may encourage consumers to switch to diet or “light” beverages. This may be beneficial in combating weight gain, although there is inconclusive evidence about the role that artificial sweeteners play in obesity prevention or overall health.
- **Disadvantage**
  - generates less revenue.

PUBLIC HEALTH MESSAGE

- Make the public health message explicit to increase public support for a tax: the purpose is to fund nutrition programs and obesity prevention, to reduce consumption of unhealthy products, and to recoup costs for diet-related diseases now covered by public funds.
- Note that the tax is not just directed at obesity. Poor nutrition affects the health of everyone, overweight or not. In addition, children can develop habits and brand loyalties well in advance of becoming overweight.
USE OF THE REVENUE

- It is important, for reasons of public support and public health, to designate revenue produced by a tax for programs related to health and nutrition, obesity prevention, etc. Programs benefitting underserved populations are especially important.
- Such initiatives could include:
  - subsidies of fresh fruits and vegetables and other healthy foods:
    - in schools and communities;
    - for food stamp recipients, which can offset concerns that the tax is regressive.
  - school initiatives:
    - incentive programs to improve all foods sold on school grounds;
    - funding for schools to meet national physical education time standards;
    - farm-to-school grants;
    - fully subsidize breakfast and lunch for low-income students;
    - safe routes to schools;
  - statewide, comprehensive obesity prevention programs;
  - improvements to the built environment for increased physical activity;
  - incentives to attract supermarkets to low income neighborhoods;
  - social marketing campaigns to counteract the marketing strategies used by food industries to advertise soft drinks and snacks to children.

OTHER CONSIDERATIONS

- Define “soft drinks” as any beverage with added sugar or other caloric sweeteners such as high fructose corn syrup, including soda, sports drinks, sweetened teas, vitamin waters, fruit drinks, and energy drinks.
- Create a “disfavored” tax status for soft drinks, making it higher than general food taxes.

OTHER RESOURCES

- The Rudd Center for Food Policy and Obesity. www.yaleruddcenter.org.
ARGUMENTS FOR AND AGAINST SOFT DRINK TAXES

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<th>Opponents say:</th>
<th>Proponents say:</th>
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<td><strong>Soft drink taxes are regressive.</strong> They will disproportionately hurt the poor and minorities who spend a larger proportion of their income on food.</td>
<td><strong>Obesity is a regressive disease.</strong> That is, it disproportionately affects poor and minority populations.</td>
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| **The government should stay out of private behavior.** It should not try to regulate what people eat or drink. | **The government is deeply involved in what we eat, from farm subsidies to setting nutritional standards for school meals.** Major government interventions have been successful in improving and protecting the public’s health. Examples include smoking restrictions and tobacco taxes, air bags in autos, fluoridated water, and vaccinations. |
| **Soft drink taxes can’t be compared to cigarette and alcohol taxes.** The use of tobacco and alcohol can have adverse consequences (called “negative externalities”) for non-users such as second hand smoke and drunk driving accidents. This is not true for soft drink consumption. | **Sugared beverage intake also results in externalities.** Because of the relationship of soft drink intake to negative health outcomes in both children and adults, health care costs rise. Obesity-related medical expenditures are estimated to be $147 billion per year. Half of these costs are paid for with taxpayer dollars through Medicaid and Medicare. |
| **People who consume too many soft drinks know they risk becoming overweight.** Everyone else shouldn’t have to bear the burden of their bad decisions. | **Consumers, especially young ones, may not know the risks involved in over-consumption of soft drinks or calories.** For example: |
| - People may not be aware that a 20-ounce bottle of Coca Cola has more than 15 teaspoons of sugar and 240 calories.  
- Most people cannot estimate the number of calories when they eat out. Even experienced nutritionists underestimate the numbers.  
- Overweight and obese children are more likely to become obese adults and suffer from related chronic diseases.  
The public may also not be aware that in 2006 manufacturers spent about $1.62 billion to market soft drinks, snacks, and other unhealthy foods, just to children and adolescents and just in the U.S. Approximately $870 million of that was spent on advertising to children under 12. | - People may not be aware that a 20-ounce bottle of Coca Cola has more than 15 teaspoons of sugar and 240 calories.  
- Most people cannot estimate the number of calories when they eat out. Even experienced nutritionists underestimate the numbers.  
- Overweight and obese children are more likely to become obese adults and suffer from related chronic diseases. |
| **It’s wrong to blame soft drinks for obesity because sales of “regular” soft drinks have decreased but obesity rates are still rising.** | **Sales of traditional carbonated sodas may be down, but sales of other sugared beverages have increased; hence the recommendation that all sugar-sweetened beverages be taxed.** |
FOOTNOTES


2 Ibid.


6 Brownell, 2009, op.cit.


17 Gustavsen, G.W., & Rickertsen, K. Public policies and the demand for carbonated soft drinks. Working paper prepared for presentation at the Xth Congress of the European Association of Agricultural Economists, Copenhagen, Denmark, August 24-27, 2005.

18 Beverage Digest, November 21, 2008, pp 3-4.


30 U.S. Food Policy: A Public Perspective blog. op. cit.
