



The Role of Tax Increases In Reducing Consumption

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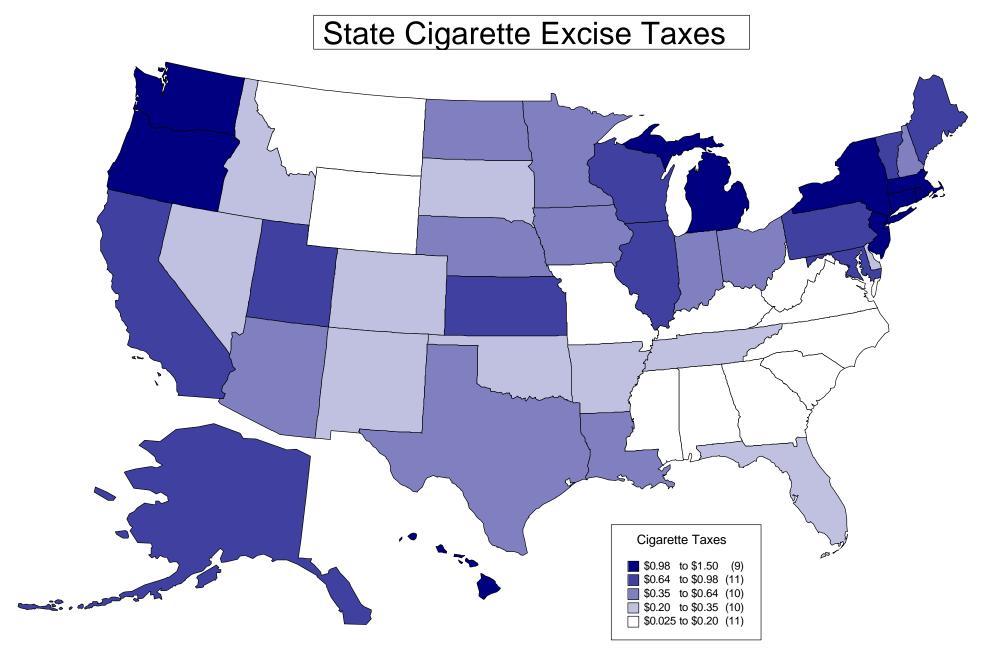
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Tobacco industry clearly understands the impact of tobacco taxation

"With regard to taxation, it is clear that in the US, and in most countries in which we operate, tax is becoming a major threat to our existence."

"Of all the concerns, there is one - taxation - that alarms us the most. While marketing restrictions and public and passive smoking (restrictions) do depress volume, in our experience taxation depresses it much more severely. Our concern for taxation is, therefore, central to our thinking...."



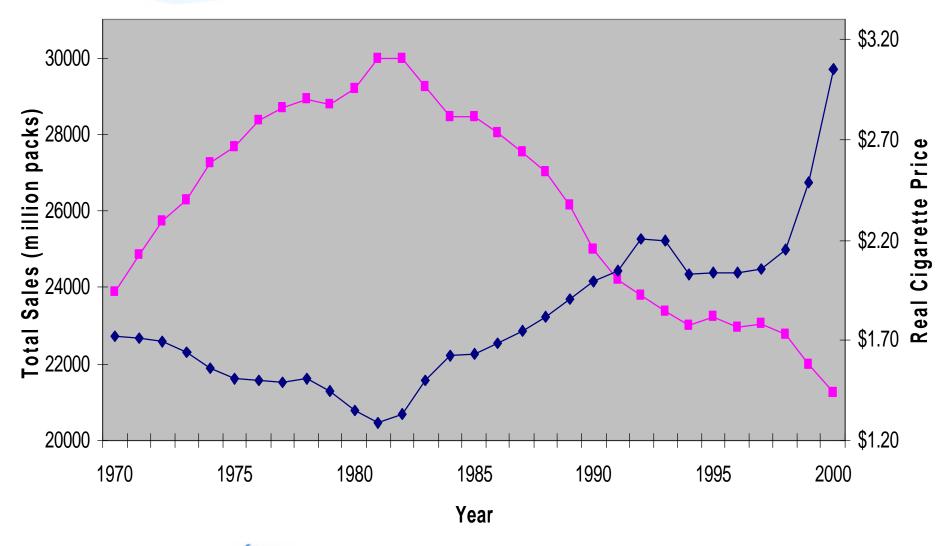
Tax rates currently in effect or scheduled to take effect in 2002

Tobacco Taxes and Tobacco Use

- Higher taxes induce quitting, prevent relapse, reduce consumption and prevent starting.
 - Estimates from high-income countries indicate that 10% rise in price reduces overall cigarette consumption by about 4%
 - About half of impact of price increases is on smoking prevalence; remainder is on average cigarette consumption among smokers
 - Some evidence of substitution among tobacco products in response to relative price changes

Source: Chaloupka et al., 2000

Total Cigarette Sales and Cigarette Prices, 1970-2000





Cigarette Prices and Smoking Cessation

- Growing evidence that higher cigarette prices
 Induce smoking cessation
 - 10% price increase reduces duration of smoking by about 10%
 - 10% price increase raises probability of cessation attempt by 10-12%
 - •10% price increase raises probability of successful cessation by 1-2%

Lower SES populations are more price responsive

- Growing international evidence shows that cigarette smoking is most price responsive in lowest income countries
- Evidence from U.S. and U.K. shows that cigarette price increases have greatest impact on smoking among lowest income and least educated populations
 - In U.S., for example, estimates indicate that smoking in households below median income level about 70% more responsive to price than those above median income level

Implies tax increases may be progressive

Sources: Farrelly, et al., 1999; Chaloupka et al., 2000

Young People More Responsive To Price Increases

- Proportion of disposable income youth spends on cigarettes likely to exceed that for adults
- Peer influences much more important for young smokers than for adult smokers
 - Young smokers less addicted than adult smokers
 - Young people tend to discount the future more heavily than adults

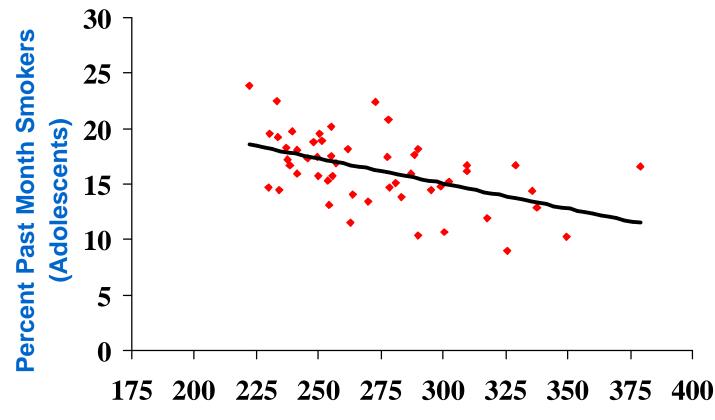
Sources: Grossman and Chaloupka, 1997

Cigarette Prices And Kids

- A 10% increase in price reduces smoking prevalence among youth by nearly 7%
- A 10% increase in price reduces conditional demand among youth by over 6%
- Higher cigarette prices significantly reduce teens' probability of becoming daily, addicted smokers; prevent moving to later stages of uptake.
- 10% price increase reduces probability of any initiation by about 3%, but reduces probability of daily smoking by nearly 9% and reduces probability of heavy daily smoking by over 10%

Sources: Chaloupka and Grossman, 1996; Tauras, et al., 2001; Ross, et al., 2001

Cigarette Smoking Among Youth by the Average Price of a Pack of Cigarettes in 50 States and the District of Columbia, 1999



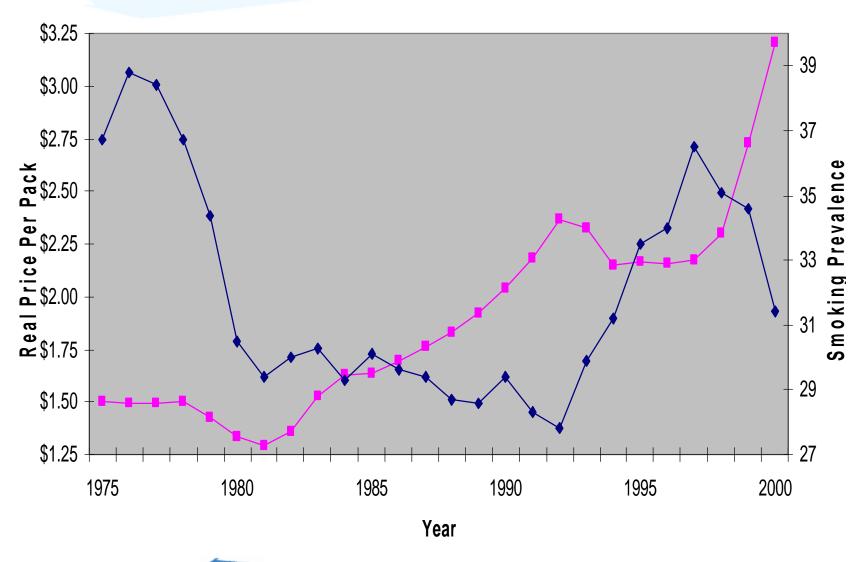
Average Price of a Pack of Cigarettes (in cents)

Data: 1999 NHSDA (12-17 year olds); 1999 Tax Burden On Tobacco

Source: Giovino, et al., 2001



12th Grade 30 Day Smoking Prevalence and Price





Impact of Federal Tax Increase

Based on these estimate, a \$1.00 per pack increase in the Federal cigarette tax would:

- Reduce cigarette sales by over 2.1 billion packs per year
- •Generate over \$17.1 billion in new revenues
- Lead more than 2.3 million current smokers to quit
 - Prevent over 3 million youth from taking up smoking
 - Prevent nearly 1.5 million premature deaths caused by smoking

Impact on Revenues?

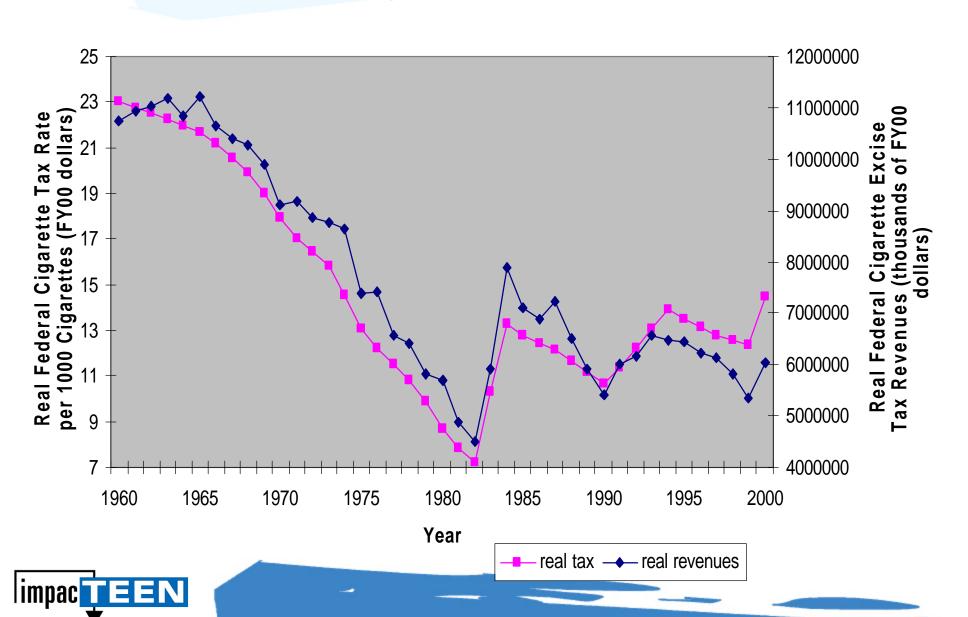
Myth: Government revenues will fall as cigarette taxes rise, since people buy fewer cigarettes

Truth: Cigarette tax revenues rise with cigarette tax rates, even as consumption declines

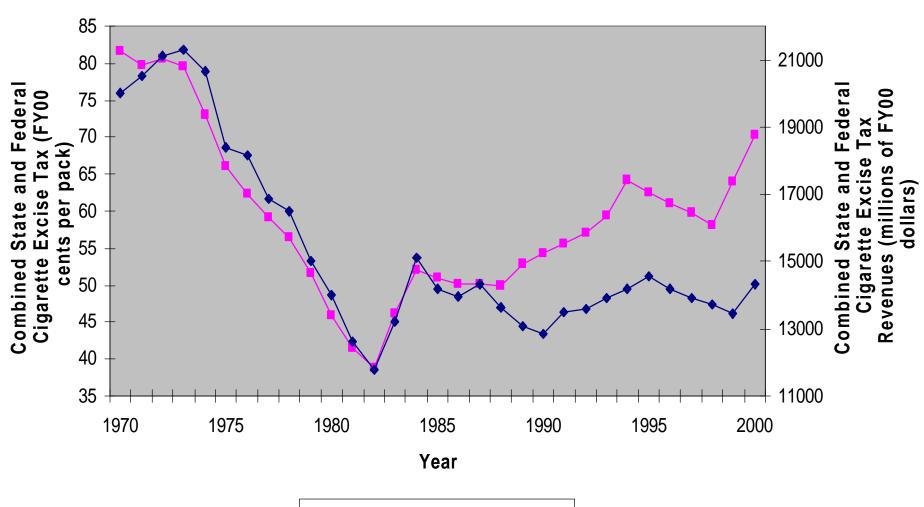
• Every significant in federal and state cigarette taxes has resulted in significant increase in revenues

Sources: Sunley, et al., 2000; World Bank, 1999

Real Federal Cigarette Tax Rate and Tax Revenues



Real Average Cigarette Excise Tax and Real Cigarette Tax Revenues







Impact on Jobs?

Myth: Higher tobacco taxes and tobacco control generally will result in substantial job losses

Truth: Money not spent on tobacco will be spent on other goods and services, creating alternative employment

 Many countries/states will see net gains in employment as tobacco consumption falls

Source: Jacobs, et al., 2000

Impact on Smuggling?

Myth: Smuggling negates the effects of increases in tobacco taxes

Truth: Even in the presence of smuggling, tax increases reduce consumption and raise revenues

- Other factors important in explaining level of smuggling
 - Effective policies exist to deter smuggling

Sources: Joossens, et al., 2000; Merriman, et al., 2000

Regressivity?

Myth: Cigarette tax increases will negatively impact on the lowest income populations

Truth: Poor consumers are more responsive to price increases

- Should consider progressivity or regressivity of overall fiscal system
 - Any negative impact can be offset by use of new tax revenues to support programs targeting lowest income population





Conclusions

Substantial increases in cigarette and other tobacco excise taxes:

- promote cessation among adults
- prevent initiation among youth
- significantly reduce the health consequences caused by tobacco use
- Generate significant revenues

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