

The Price of Liquor is too Damn High: Alcohol Taxation and Market Structure

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Motivation – Alcohol Regulation

- Alcohol regulation as means to discouraging excessive consumption
 - ▣ Societal harms (crime, risky teen behavior, drunk driving) heterogeneous and dependent on consumption occasion
 - ▣ Aggregate consumption responds to price (but not much)
 - ▣ Some aggregate evidence that high prices (might) reduce societal harms

- Regulatory approaches to raising prices (& government revenue):
 - ▣ Ad-valorem and specific taxes
 - ▣ Market power in the supply chain (exclusive territories, PH laws)
 - ▣ State-run wholesale/retail; pricing akin to ad-valorem tax
 - Ignores preference variation for differentiated products, affecting state revenue and consumer welfare in aggregate and in distribution

This paper I: Theory & Descriptive Evidence

- PH laws and tacit collusion
 - ▣ Little unilateral incentive for distributors to undercut competitors
 - ▣ Price set by firm with lowest opportunity cost reflecting marginal cost and within-firm-portfolio cannibalization effects
- Empirical tests
 1. State-level consumption drops by 4-8% after abolition of PH regulations (but few policy changes)
 2. Prices in CT higher than surrounding states w/o PH
 3. Consumption in CT tilted toward lower priced products than in comparable MA
 4. For multi-distributor products, little to no variation in wholesale price

This paper II: Contrast PH with alternatives

- Descriptive evidence suggests:
 - PH raises price → reduces consumption
 - ...but more so for inelastically demanded products → affects product choice

- How large are product choice inefficiencies?
 - Estimate discrete choice model of demand for differentiated spirit products
 - Impose PH model's optimal pricing to find implied (constant) distributor MC
 - Contrast welfare under current system to perfectly competitive distribution system combined with ad-valorem or specific tax

- Results suggest that for given consumption, optimal ad-valorem tax generates tax revenue nearly equal to distributor profit and increases CS by about 8%.

Suggestions

- More detail on interaction between distillers and distributors useful
 - ▣ Single firm distribution common: for top 100 products,
 - Of 6,327 product months, 2,722 single distributor (43%)
 - Not affected by PH regulations → what are these products?
How are distribution decisions made by distillers?
 - ▣ Can we learn something about how close to monopoly pricing PH comes by comparing single and multiple distributor products (with obvious selection caveats)?
 - ▣ Are there changes in distribution networks by distillers over time to look at how wholesale price responds to number of distributors carrying product?

Suggestions II

- How does retail side work?
 - ▣ How do retail stores choose distributors?
 - ▣ How does minimum retail price law work that is relied on to calculated retail price in demand model? Is it binding?
- Analyses
 - ▣ (To me) tacit collusive aspects to price posting unique
 - Price set by firms with least cannibalization considerations.
 - How important is variation in product portfolios carried by distributors in affecting price, welfare?
 - How similar to single-firm multi-product monopoly pricing do we get with PH system?