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2: Options

## Lecture 7: Vanilla

October 8, 2024





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- 1. Administrative Notes
- 2. Ripped from headlines
- 3. Elasticity and policy
- 4. Questions from Chapter 6? Taxes, Price Controls, and Quantity Regulations
  - 4.1 How taxes and subsidies change market outcomes
  - 4.2 Price regulations
  - 4.3 Quantity regulations
- 5. Vanilla!



2: Options

#### **Course Administration**

- 1. Hopefully your summary is turned in to BB
- 2. No office hours Monday, but office hours Thursday 4:30 to 6 pm
- 3. Annie's review session is Wed. Oct 9, 6 to 8 pm
  - 1957 E St., Room 316
  - Come with questions
- 4. Next lecture (8) is the midterm
  - you need pen, pencil and dumb calculator
- 5. Any other questions or outstanding issues?

#### Today's Ripped from the Headlines

Afternoon, joint presentation	
Finder	Presenter
Halle V.	Sawyer S.
Taryn G.	Samantha C.
Amanda K.	Sarah C.

Evening, individual presentation

Finder	Presenter
Lillien S.	Nathan D.

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# Today: Tax Questions and Vanilla

1. Questions from Chapter 6? Taxes, Price Controls, and Quantity Regulations

- $1.1\,$  How taxes and subsidies change market outcomes
- 1.2 Price regulations
- 1.3 Quantity regulations

#### Today: Tax Questions and Vanilla

#### 1. Questions from Chapter 6? Taxes, Price Controls, and Quantity Regulations

- 1.1 How taxes and subsidies change market outcomes
- 1.2 Price regulations
- 1.3 Quantity regulations
- 2. Elasticity and policy
- 3. Vanilla!
  - 3.1 Establish agreement on facts
  - 3.2 Consider policy solutions to price swings

#### Elasticity and Policy, 1 of 4

Has a cost-benefit analysis ever been swayed by the measurement of elasticity?

- Ask FAA to ban airline policy of letting kids < 2 fly for free on parents' laps
- Benefit of ban:

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- Cost of ban: parents switch to driving
  - driving more dangerous/mile for infant
  - driving more dangerous for all other family members

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- Assume family of four, one child < 2
  - 5 children saved on planes
  - 25 lost on highways
  - + 70 family members killed on highways

#### Elasticity and Policy, 2 of 4

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• For each mile driven, less pollution

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#### Elasticity and Policy, 2 of 4

Has a cost-benefit analysis ever been swayed by the measurement of elasticity?

What if EPA and DOT raise fuel economy standards?

- For each mile driven, less pollution
- Increases price of new cars
- ullet ightarrow substitution into used cars, depending on cross-price elasticity
- Lower per-mile cost of driving
- "agencies use estimates of the elasticity of vehicle miles travelled with respect to the cost of driving to estimate side effects of driving more miles."
- more driving  $\rightarrow$  congestion, emissions of other pollutants, and crashes

Thanks to Rich Theroux, retired OMB via Susan Dudley.

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#### Elasticity and Policy, 3 of 4

Has a cost-benefit analysis ever been swayed by the measurement of elasticity?

FDA and cost of clean water

- FDA proposes more stringent standards for bottled water
- OMB Economist 1 is concerned that costs > benefits, since standards more stringent than municipal water supplies
- Economist 2 counters that supply of spring water is very elastic
- Economist 1 agrees and does not oppose policy

Thanks to Randall Lutter, retired FDA via Susan Dudley.

#### Elasticity and Policy, 4 of 4

Has a cost-benefit analysis ever been swayed by the measurement of elasticity?

FDA limits psuedoephedrine

- pseudoephedrine = low cost over-the-counter safe and effective cold medication
- pseudoephedrine = key ingredient in manufacturing methamphetamine

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- FDA loses, pseudoephedrine limited

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- FDA says you can make meth from many things supply of meth ingredients is elastic
- FDA loses, pseudoephedrine limited
- meth supply does not decline
- meth prices do not rise

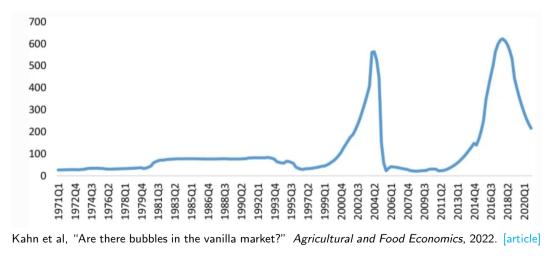
# Vanilla: 1. Agreement on Facts

# In Groups, Please Prepare the Following Questions

- What is the process of vanilla production?
  - what are fixed costs?
  - what are variable costs?
  - give an example about the extent of producer elasticity
- Did the elasticity of demand for real vanilla change? If so, when and why?
- Choose three points on price graph and explain whether they are supply or demand driven
  - Draw original equilibrium and new equilibrium with supply or demand shift

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#### "The Best Remedy for High Prices is High Prices"



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# Vanilla: 2. Potential Policy Solutions

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#### Potential Policy Solutions

Problem: Very variable prices make life hard for Madagascar farmers

- Think of at least two policy solutions
- For each, outline benefits and costs



2: Options

#### For Next Class

- Study!
- Look at problem sets
- Look at lecture notes
- Look at textbook
- Bring a pen or pencil and a dumb calculator

2: Options

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- post these lecture notes on my webpage
- post link to lecture recording on Blackboard
- anything else?