

IV. TAXES IN THE MARKET MODEL, p. 107

Legal of statutory incidence

Actual or economic incidence of the tax

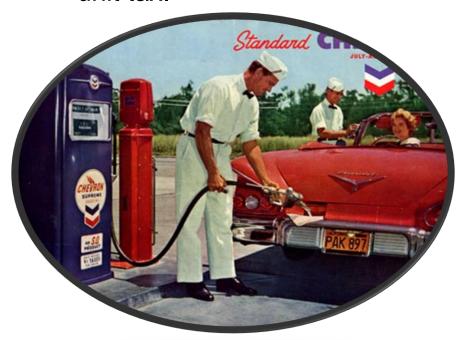
 The curve of the party bearing the legal incidence of the tax will shift by the per unit dollar amount of the tax., p.107

When a tax shifts the demand curve: If

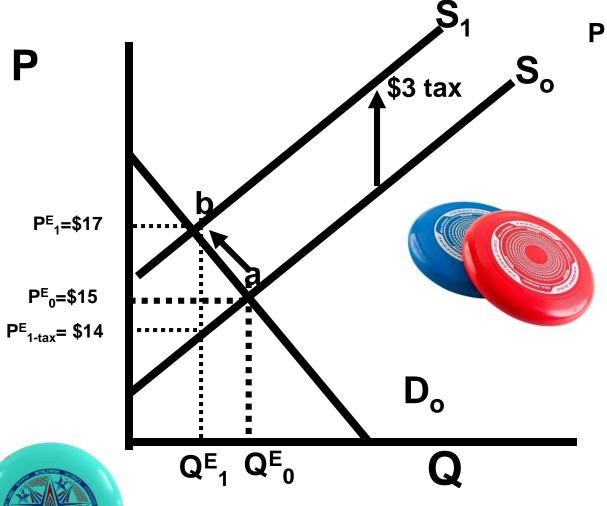
consumers bear the legal incidence of the tax, the demand curve will shift down vertically by the dollar amount of the per unit tax.



When a tax shifts the supply curve: If producers have legal incidence, the supply curve will shift upward vertically by the dollar amount of the per unit tax.



Frisbees Market where $P^E = 15 Government imposes a \$3 per unit excise tax on Frisbees.



Producers bear legal tax incidence Supply Shifts

Price rises by \$2.00.

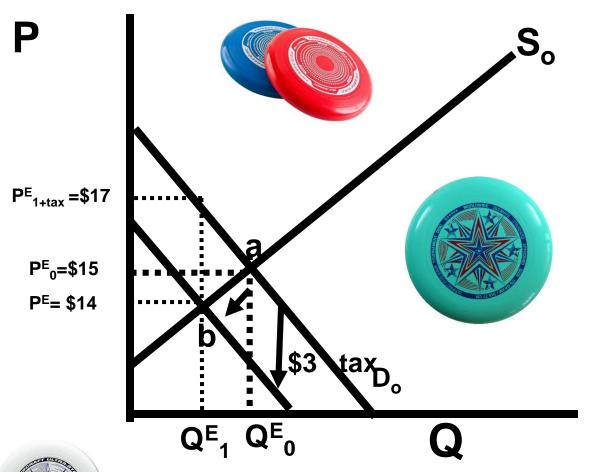
 The consumer pays \$2.00 of the tax (actual incidence)

 Producers sell product for \$17 but only get to keep \$14.

 Producer pays the remaining \$1.00 of tax burden.

Consumers bearing legal tax incidence Demand Shifts, p. 108

Price falls by \$1.00.



- The consumer pays \$2.00 of the tax (actual incidence)
- Producers sell product for \$14 instead of \$15.
- Producer pays the remaining \$1.00 of tax burden.

Tax equivalence, P.108

The impact of the tax is the same whether producers bear legal incidence or consumers bear legal incidence.

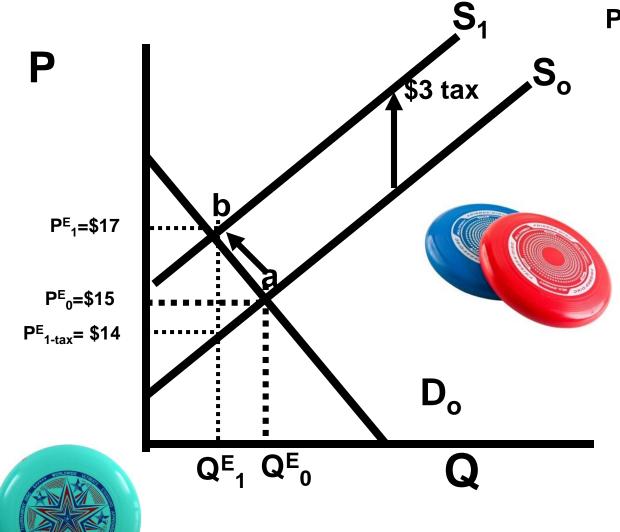
- -fewer frisbees bought
- -\$2 actual incidence to consumer and \$1 to producer

V. Elasticity and Actual Tax Incidence, p. 109

Economic or actual incidence of a tax will depend on the relative elasticities of supply and demand.

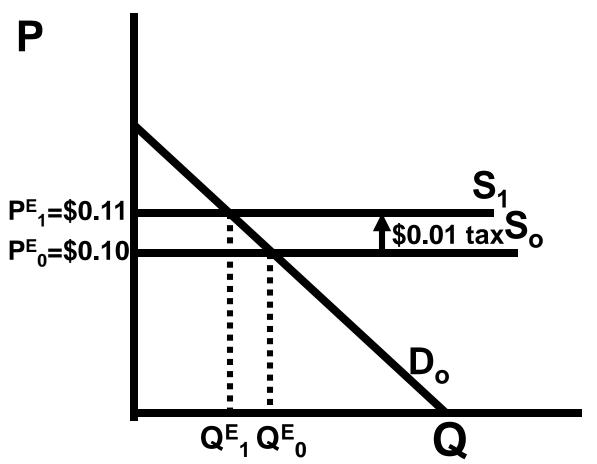
i.e. are consumers more flexible or are producers more flexible?

Case I: Frisbees Market where $P^E = 15 , p. 109 or first graph on 108 Government imposes a \$3 per unit excise tax on Frisbees.



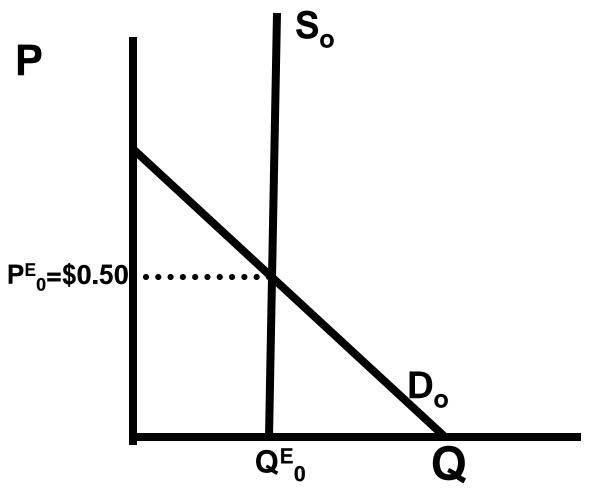
Producers bear legal tax incidence
Supply Shifts

- Price rises by \$2.00.
- Consumer pays \$2.00 of the tax (actual incidence)
- Producers sells for \$17 but only keeps \$14.
- Producer pays remaining \$1.00 of tax burden.
- Who is more elastic?
- Producers



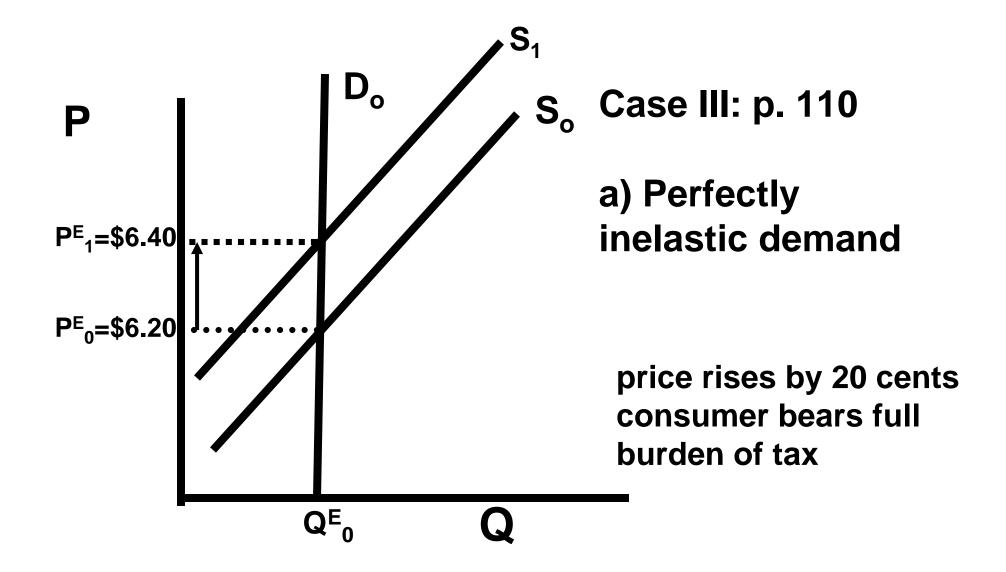
Case II: a) p. 110

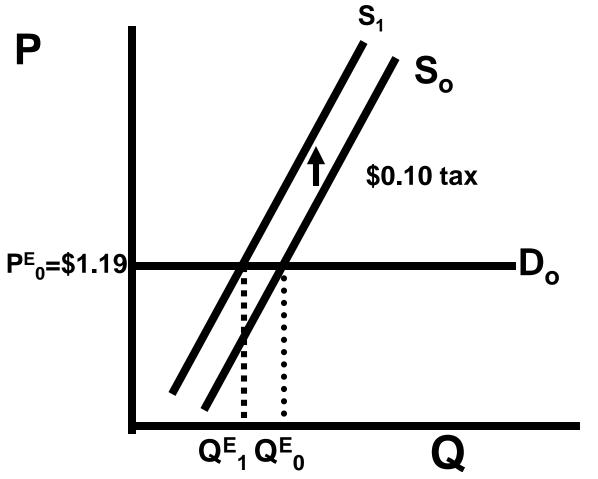
- Perfectly elastic supply
- Price rises 1 cent so consumers bear full burden



b) p. 110

- Perfectly inelastic supply
- Producer bears full burden of tax





b) Perfectly elastic demand p.111

- Price does not change
- Seller bears the full burden of the tax.

Summary p. 111

When comparing producers and consumers – whoever's curve is most elastic bears the least of the actual tax incidence.



ICLICKER – REEF POLLING



1) If the government imposes a \$500 excise tax on imported cars and the market price increases by \$100, what is the actual incidence of the tax to consumers?

A. \$0

B. \$100

C. \$400

D. \$500

ICLICKER – REEF POLLING

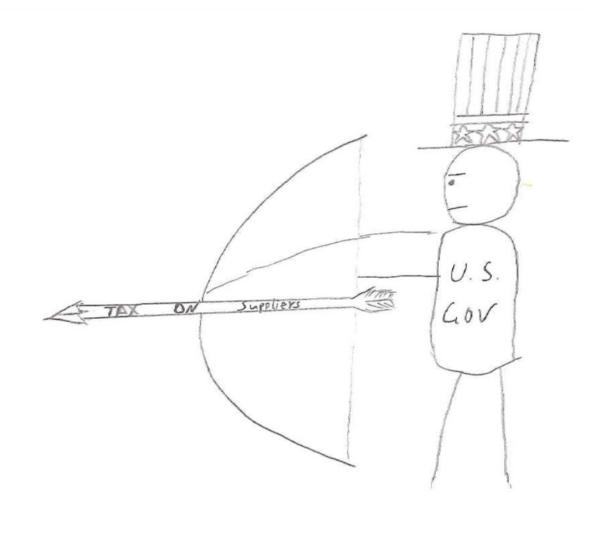


2) Assuming there is a \$500 excise tax and consumers bear \$100 of the tax burden while producers bear \$400 of the tax burden, which curve is relatively more elastic?

A. Demand

B. Supply





INCOME TAXES

Local around 2.9% "occupational license fee"

State around 6%

Federal -schedule

Filing status:	Single	Married filing joi	intly N	Married fi	iling separately	Qua	lifying widov	v(er)	Head of h	ousehold		
Your first name and initial			La	Last name							Your social security number	
Your standard de	duction: S	Someone can claim	you as a dep	endent	You wer	re born befo	re January 2	, 1954	You	are blind		
Spouse or qualify	ing person's first	t name and initial (s	ee inst.) La	st name	Э				-VID-10-10-00-00-00-00-00-00-00-00-00-00-00-	Spouse's	s social secu	rity number
Spouse standard de	=	Someone can claim		as a dep	pendent		se was born e itemizes or				al-status alien	
Home address (number and street). If you have a P.O. box, see instructions. Apt. no.								Full-year health care coverage (see instructions)				
City, town or post	t office, state, an	d ZIP code. If you h	nave a foreign	address	s, attach Sched	ule 6.				see inst	than four de tructions and	i
Dependents (s	ee instructions):	10.4	(2) Soc	cial security numbe	(3) R	elationship to	/ou	(4	check h	0770794-R 02177	. • 🗆
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Sign Under the Control of the Contro	nder penalties of pe percet, and complete Your signatur	Last name Last n	ave examined therer (other than to	nis return axpayer)	and accompanyin	ng schedules a ormation of wh Your occi	nd statements	, and to the	Child tax) ✓ if qualifier credit nowledge and If the IRS se PIN, enter it here (see inst IFS see IRS) see TRN, enter it here (see inst IFS), enter it here (see inst IFS), enter it here (see inst IFS), enter it it here (see inst IFS).	s for (see inst.) Credit for othe	r dependents
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Average Tax Rate (ATR)

- Tax liability divided by taxable income.
 It is the percentage of income paid in taxes
- Example:
- You earn \$20,000 a year and pay \$3,000 in taxes
- average tax rate is 3,000/20,000
- or .15 or 15%

Marginal Tax Rate (MTR)

(additional tax liability) / (additional taxable income)

- % of an extra dollar of income earned that must be paid in taxes
- Income increases from \$40,000 to \$70,000 and your tax liability rises from \$10,000 to \$16,000. What is your marginal tax rate?
- MTR=additional tax liability/additional income or \$6,000/\$30,000 = 20%

2017 US Marginal Income Tax Rates

Single filers	Current marginal		
Taxable income	rate		
(up to)	Tale		
\$9,325	10%		
\$37,950	15%		
\$91,900	25%		
\$191,650	28%		
\$416,700	33%		
\$418,400	35%		
Over \$418,400	39.6%		

Standard deduction \$6,350 Personal Exemption \$4,050

2018 US Marginal Income Tax Rates

Tax bracket	Single
10%	0-\$9,525
12%	\$9,525-\$38,700
22%	\$38,700-\$82,500
24%	\$82,500-\$157,500
32%	\$157,500-\$200,000
35%	\$200,000-\$500,000
37%	\$500,000 and up

Standard deduction \$12,000 Personal Exemption -eliminated

Tax Reform for 2018: Corporate tax rate fell from 35% to 21%.