

Micro

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ECON 2010-2011



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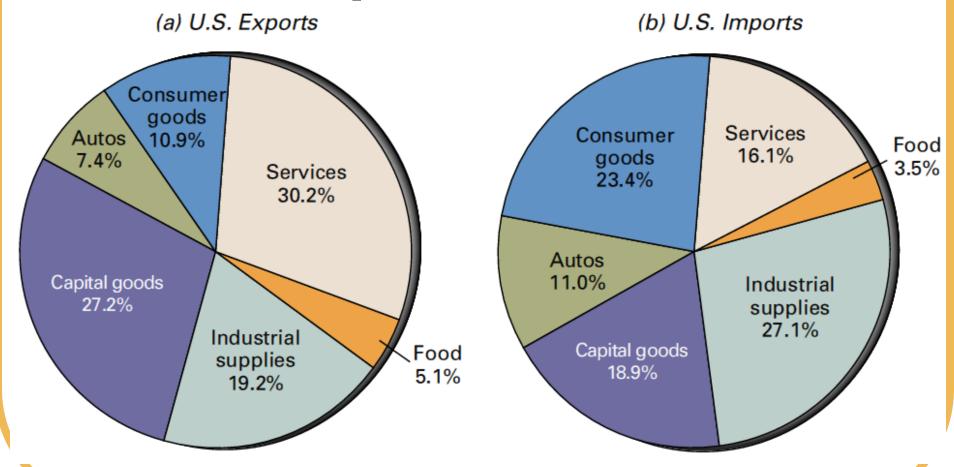
The Gains from Trade

- Law of comparative advantage
- Countries specialize
 - Goods with the lowest opportunity cost
- U.S. exports
 - \$1.6 trillion (12% of GDP) in 2007
 - Services (30.2%)
- U.S. imports
 - ___\$2.3 trillion (17% of GDP) in 2007
 - LO¹ Industrial supply (27.1%)



Exhibit 1

Composition of U.S. Exports and Imports in 2007



Production Possibilities Without Trade

- Production possibilities
 - With existing resources
- No trade
 - Production possibilities = consumption possibilities
- Production possibilities frontier



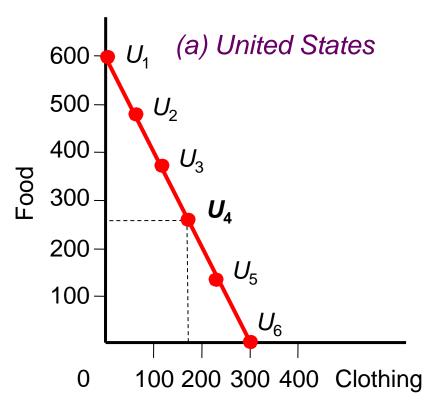


Production Possibilities Schedules for United States and Izodia

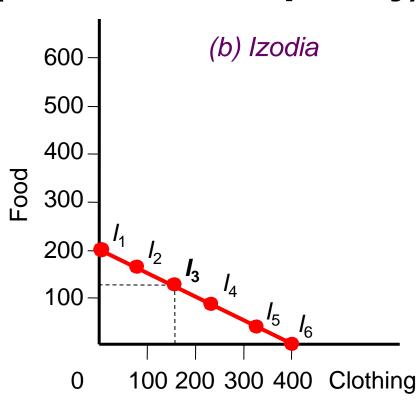
(a) United States						
Production Possibilities with 100 Million Workers (millions of units per day)						
	<i>u</i> ₁	U ₂	U_3	U_4	u_5	u_6
Food	600	480	360	240	120	0
Clothing	0	60	120	180	240	300
(b) Izodia						
Production Possibilities with 200 Million Workers (millions of units per day)						
	<i>I</i> ₁	12	13	14	15	16
Food	200	160	120	80	40	0
Clothing	0	80	160	240	320	400

Exhibit 3

Production Possibilities Frontiers for the United States and Izodia Without Trade (millions of units per day)



Slope: opportunity cost of an additional unit of food is ½ unit of clothing



An additional unit of food costs 2 units of clothing.

Food is produced at a lower opportunity cost in the United States.

Consumption Possibilities

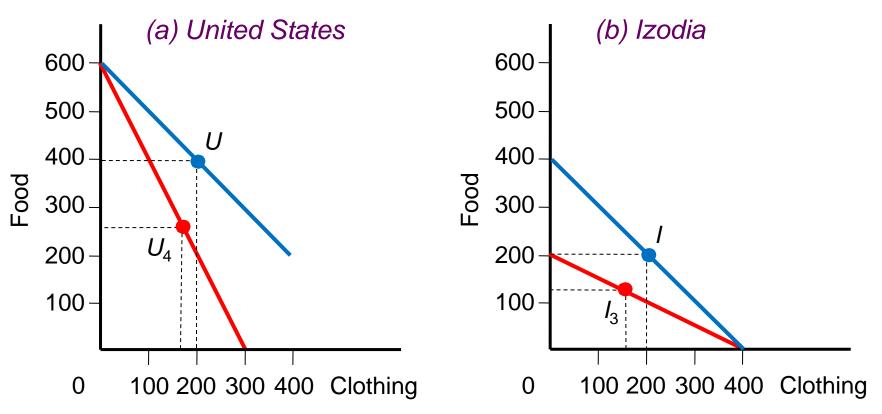
- Gains from specialization and trade
 - Each country should specialize
 - Producing the good with the lower opportunity cost
- Terms of trade
- Consumption possibilities frontier
 - Possible combinations of good
 - As result of specialization and exchange



Depend on relative preferences

Exhibit 4

Production (and Consumption) Possibility Frontiers with Trade (millions of units per day)



Trade: 1 unit of clothing for 1 unit of food. Both countries are better off as a result of international trade.

Reasons for International Specialization

- Differences in resource endowments
 - Create differences in opportunity cost
 - Countries export
 - Produce more cheaply
 - Countries import
 - Products unavailable domestically

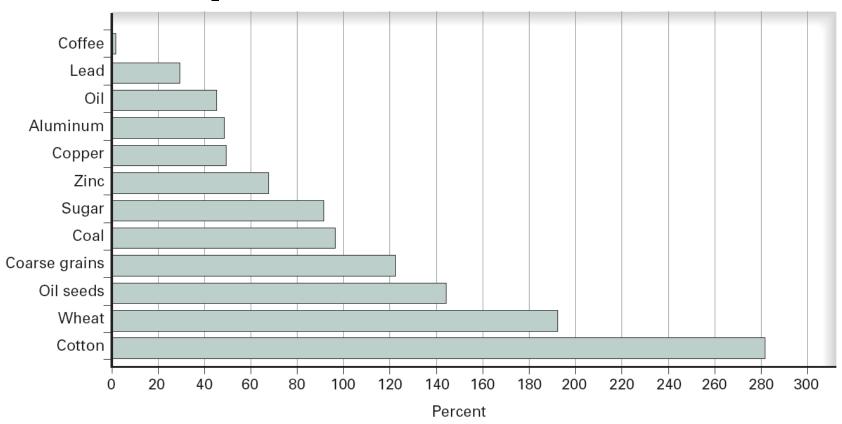


Cheaper elsewhere



Exhibit 5

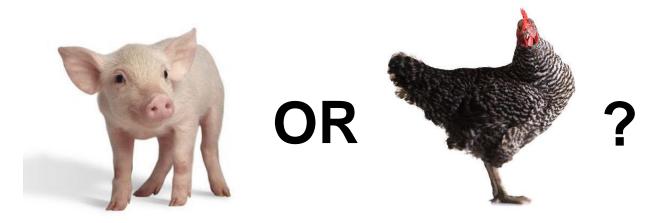
U.S. Production as a Percentage of U.S. Consumption for Various Commodities



If U.S. production is <100% of consumption, imports make up the difference. If U.S. production exceeds U.S. consumption, then the difference is exported.

Reasons for International Specialization

- Economies of scale
 - Firms produce more
 - Reducing average costs
- Differences in tastes





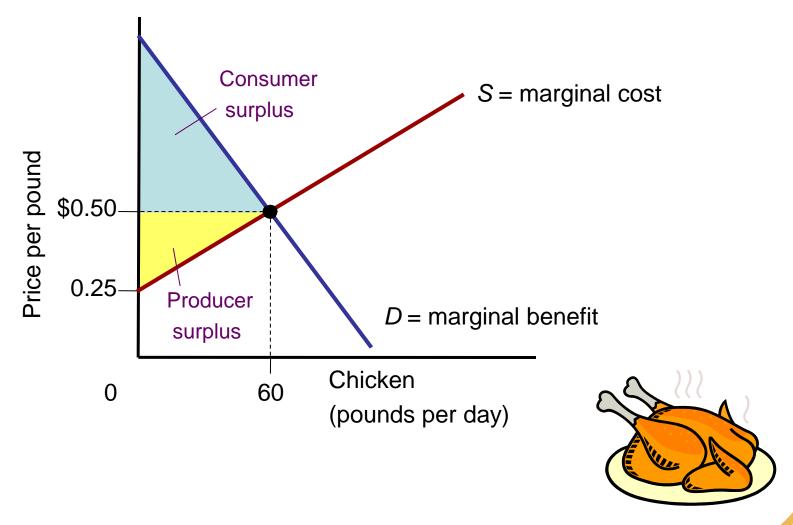


Consumer and Producer Surplus

- Market exchange
 - Demand: marginal benefit
 - **Consumer surplus**
 - Difference between what consumers would pay and what they do pay
 - Supply: marginal cost
 - Producer surplus
 - Difference between actual amount received and what they would accept



Consumer and Producer Surplus from Market Exchange



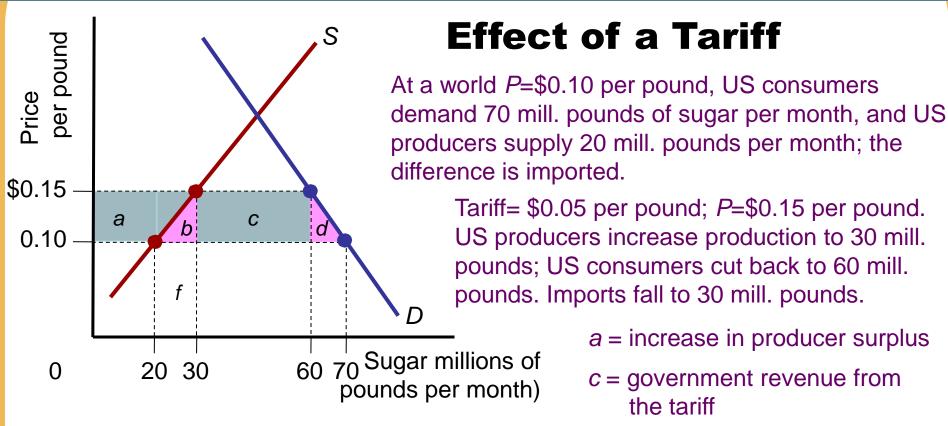


Trade Restrictions

- Tariff: Tax on imports
 - Specific
 - \$ amount per unit
 - Ad valorem
 - Percentage per unit
 - Effects
 - Loss of consumer surplus
 - Increase in producer surplus
 - Increase in government revenue
 - Net loss in domestic social welfare



LO³ Exhibit 7



b = higher marginal cost of domestically producing sugar that could have been produced more cheaply abroad.

d = loss of consumer surplus from the drop in consumption

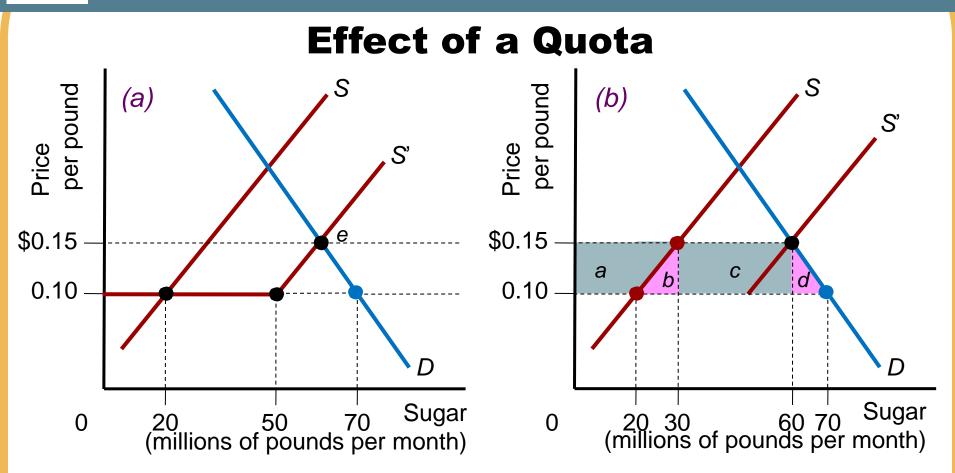
Consumers are worse off. Loss of consumer surplus: areas a, b, c, and d. b+d = Net welfare loss to the US economy



Trade Restrictions

- Import quotas
 - Legal limit on the amount of a commodity that can be imported
 - Target imports from certain countries
 - Effects
 - Raise the U.S. price above the world price
 - Reduce quantity below the free-trade level
 - Lower consumer surplus
 - Increase in producer surplus
 - Net loss in domestic social welfare

Exhibit 8



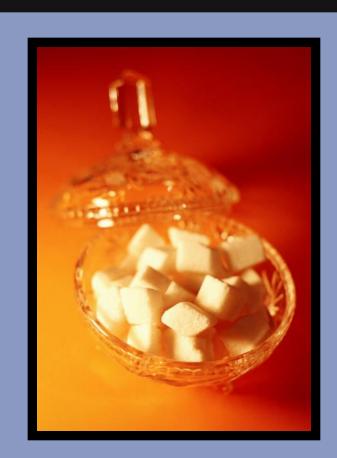
Quota=30 mill., world price=\$0.10. S'=supply curve (imports and US production; new price \$0.15: intersection of D and S'.

Loss of consumer surplus: a+b+c+d; a = transfer from US consumers to US producers; b+d = net loss; c = gain for sellers of foreign-grown sugar



Trade Restrictions

- Quotas in practice
 - Rewards domestic and foreign producers with higher prices
 - Lobbyists for foreign producers
 - Right to export to U.S.
 - Auction off the quotas
 - Increase federal revenue
 - Reduce pressure to perpetuate quotas





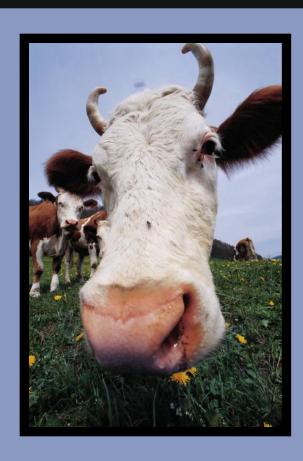
Trade Restrictions

- Comparison: Tariffs and Quotas
 - Similarities
 - Higher price
 - Lower quantity demanded
 - Loss of consumer surplus (U.S. Consumers)
 - Gain of producer surplus (U.S. producers)
 - Lower economic welfare
 - Differences
 - Revenue from tariff U.S. government
 - Revenue from quota to quota rights' owner



Other Trade Restrictions

- Export subsidies
- Domestic content requirements
- Other requirements
 - Health
 - Safety
 - Technical standards
- Bilateral agreements
- Trade restrictions
 - Slow economic progress



Multilateral Agreement

- General Agreement on Tariffs and Trade
 - GATT:
 - Reduce tariffs
 - Reduce import quotas
 - Equal trade
 - 1986, "Uraguay Round"
 - 140 countries
 - Successor: WTO





The World Trade Organization

- Legal and institutional foundation for world trade
- 500 economists and lawyers
- Trade
 - Merchandise
 - Services
 - Intellectual property
- Phase out quotas
- Keep only tariffs





Doha Round and Round

- ise Study
- ◆ 1999, WTO, Seattle
 - 50,000 protesters
 - Largest demonstration against free trade
 - Labor union;
 - Environmental;
 - Farmers
 - Labor and environmental standards
 - Failed to get off the ground



Doha Round and Round

- 2001, Doha, Qatar "Doha Round"
 - Improve market access
 - Phase out export subsidies
 - Reduce subsidies in agriculture
- ◆ 2003, Cancun
- 2005, Hong Kong
- 2007, Germany
- Round and round



Common Markets

- U.S. economy
 - Free trade zone across 50 states
- European Union
 - 27 countries in 2007
 - Barrier-free European market
 - 16 members: common currency Euro
- North American Free Trade Agreement
 - United States, Canada, Mexico





Common Markets

- DR-CAFTA
 - U.S., Dominican Republic, five Central American countries
- Mercosur
 - Latin American countries
- ASEAN
 - Southeast Asian nations
- Southern African Customs Union



Arguments for Trade Restrictions

- National defense argument
 - More efficient
 - Government subsidies
 - Stockpile
- Infant industry argument
 - Foster inefficiencies
 - More efficient
 - Temporary production subsidies





Arguments for Trade Restrictions

- Antidumping argument
 - Dumping
 - Sell a product abroad for less than in the home market
 - Persistent
 - Consumers pay less
 - Increase consumer surplus
 - Predatory
 - Temporary; eliminate competitors
 - Sporadic
 - · "sales"



Arguments for Trade Restrictions

- Jobs and income
 - Protect domestic jobs
 - Retaliation
 - Great Depression: high tariffs choked trade and jobs
- **Declining industries** argument
 - Help lessen shocks to the economy
 - Specific duration





Chapter 19

Problems with Trade Protection

- Protect one stage of production
 - Protect downstream stages
- Cost of protection
 - Welfare loss
 - Cost of rent seeking
- Transaction cost of enforcing restrictions
 - Black markets
- Less efficient, less innovative
- Retaliation



Chapter 19

Steel Tariffs

- U.S. steel industry
 - Slow to adopt new technologies
 - Long and painful decline
- 2002: tariffs on imported steel
 - Helped U.S. steel industries
 - Cut imports; Boosted U.S. price of steel
 - Hurt U.S. steel-using industries
 - Less competitive
 - Cost: 15,000 to 20,000 jobs





Steel Tariffs

- Expected retaliation
 - European Union
 - Threat to impose tariffs on U.S. exports
 - WTO
 - **♦** The tariffs = violation of trade agreements
 - Japan, South Korea
 - Threat to impose tariffs on U.S. exports
- December 2003
 - U.S. repealed the steel tariffs