Exercise 3. Real-world application of tariffImport tariff: large country case in soybean mkt



2017: China accounted for 60% of US soybean exports
2018: US planted big crop in response to high demand and poor crop in Argentina; US bumper crop as China applies tariff
Source: *Economist*, "Soyabeans: Soy sources", 23 Feb 2019, p. 73.

* Experiences with import quotas: case of Norway

- Total cheese quotas
 - 1995: Duty-free 4 500 ton EU quota
 - 3430 tons licensed thru historical allocation
 - 340 allocated to processors
 - 730 tons by application, 1st come, 1st serve
 - 2011: 2 700 ton EU quota by auction (25,26 kr/kg bid price in 2016)
 - Imports exceeding quota volume subject to 200+% tariffs
 - 2021: 75,000 tons produced in Norway (imports $\approx 15\%$ of consume)
 - https://www.toll.no/en/corporate/import/free-trade/quotas/

Voluntary export restraints and orderly marketing arrangements

Source: WTO, Trade Policy Review: Norway, doc number WT/TPR/S/373, 23 Apr 2018

• Export quota: case of rare earth elements

- Background
 - Key manufacturing input
 - China global supplier/exporter

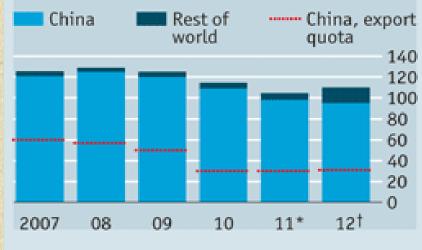
Background information

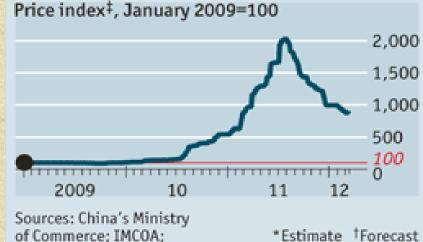
Share of world Q, 2000-10	97%
Share of reserves	50%
Avg export vol, 2000-09	47 000 – 50 145 tons
Export quota, 2010	30 000 tons

• What is the policy objective?

- Address environmental concern
- Improve TOT at expense of others

Global production, '000 tonnes

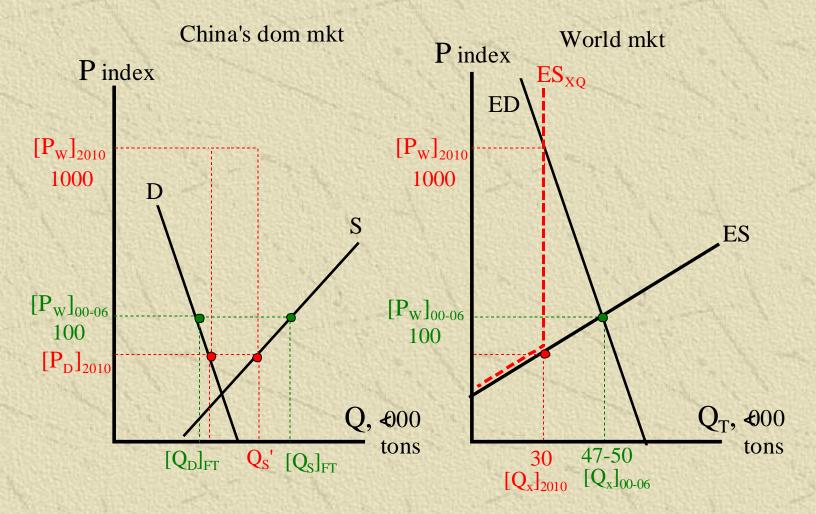




Kaiser Research Online

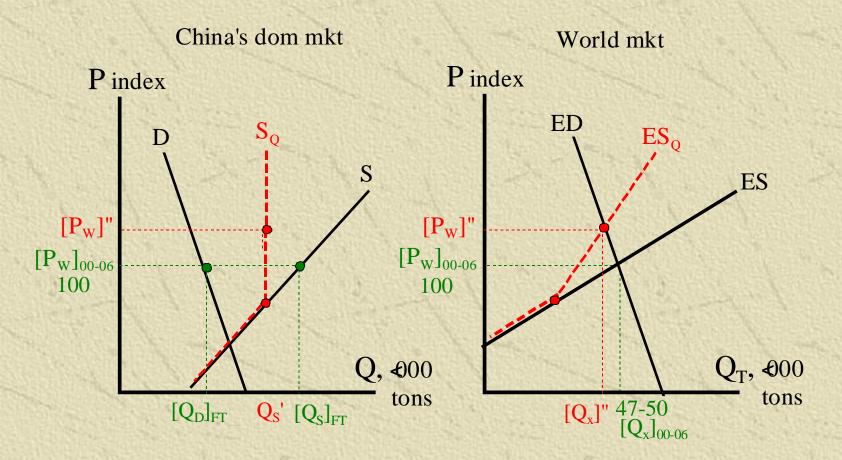
[‡]Composite of ten minerals

• Is an export quota an appropriate tool to meet an environmental objective?

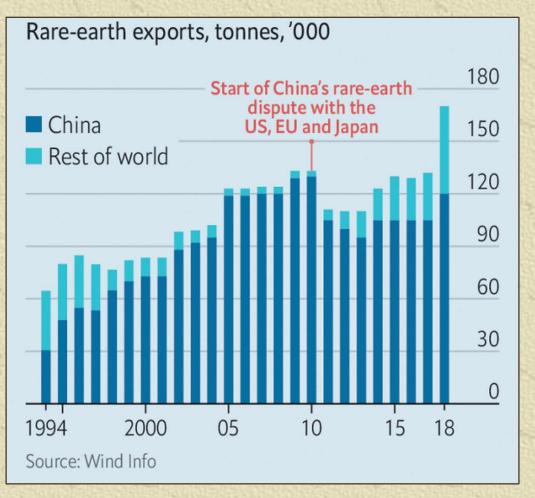


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• Is a production quota an appropriate tool to meet an environmental objective?



• Aftermath of the policy and trade dispute



2010: WTO case found that China's policy was not for protecting environment, but to control raw materials for dominance in value added: turning oxides into metals and metals into products. Concern with China's dominance of rare earths has led to increased mining in the rest of the

world.

Economist, "Rare earths: Magnetic attraction", 15 Jun 2019, p. 47-8.

5. Export Taxes as a Policy Tool

- 5.1 Basics of an export tax
- Definition by type
- ***** Objectives and economics
- Economic and political issues
 - WTO rules on exports more weakly enforced than imports
 - Economic: logic of WTO principles; efficiency
 - Political: Who taxes exports? Why should WTO care?

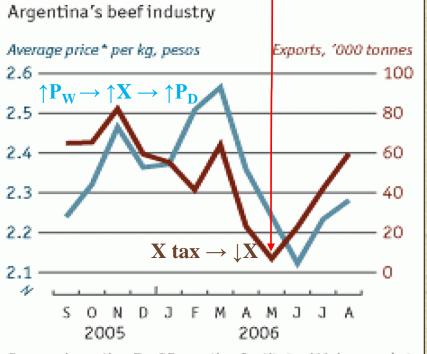
5.2 Graphical analysis: economic, trade and welfare
* Case of Argentina, 2005-08
* Case of Mozambique, 2001
* Case of global export taxes, 2007 price spike

Export Taxes as a Policy Tool * Case of Argentina (soybeans, beef) • Export taxes: overall; soybeans • 2005 overall ag export taxes 80% of all X earnings • 2008: soy tax \uparrow to 40% \uparrow 95% when P_w > \$600/ton 2.6• 2023: 33% tax on soy $\uparrow \mathbf{P}_{\mathbf{W}} \rightarrow \uparrow \mathbf{X} -$ 2.5• Beef, 2005-06 2.4 • 15% tax; near-ban if $P_w \uparrow$ too much 2.3 • Trading in ag futures stopped 2.2 • Farmers strike/block roads 2.1• Domestic P (slaughterhouse): • \downarrow P_D to farmers by 30% 2005 Source: Argentine Beef Promotion Institute *Liniers market • \downarrow P_D to consumers by 7.5%

In 2006, President reversed policy allowing export volume to \uparrow to 65% of 2005 level: $\uparrow P_D \rightarrow \uparrow X$

• 6% of total revenue – for soy, 23.5% of soy revenue

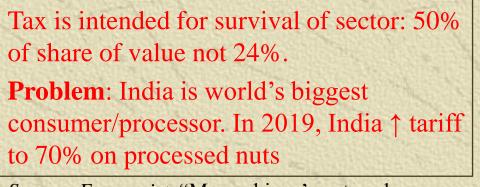
Economist, "Farming in Argentina: Biting the Hand that Feeds" 26 Oct 2006; and "Argentina: Deadlock", 31 May 2008, p. 60



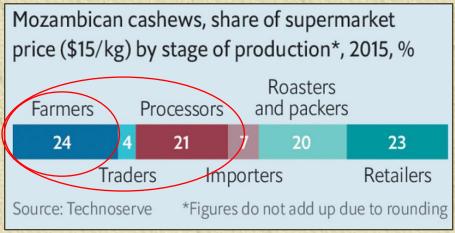
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Export Taxes as a Policy Tool

- Case of Mozambique's cashew nut sector
 - Background
 - 1960s: ¹/₂ of world crop production and domestic nut processing
 - 1977-92: civil war left sector in ruins
 - 1990s: World Bank has gov't cut export tax and remove controls
 - 2001: X ban on nuts during harvest; 18-22% X tax; 0% if processed
 - Result:
 - Some smuggling: $P_W > P_D$, $P_D \downarrow$ hurts producers, helps processors
 - $\downarrow Q_S$, \downarrow quality, \downarrow investment in new trees
 - Gov't hurts 1.3m smallholders to \uparrow 17 000 jobs in 16 processing plants

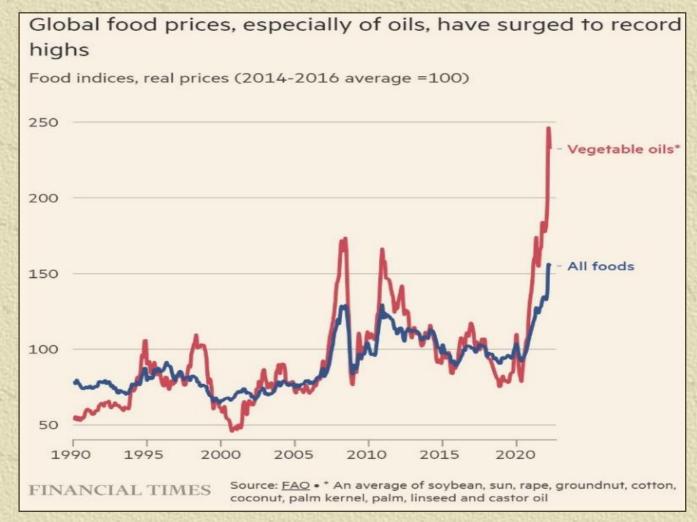


Source: Economist, "Mozambique's nutcrackers: Cashews and cash", 14 Sep 2019, p. 35.



Export Taxes as a Policy Tool

Commodity P-shocks: 2007, 2011-13 and 2021-22



2007: panicked by rising food prices 30+ gov'ts from Ukraine to China, introduced export restrictions on farm produce, cutting supply on world markets. Rice was worst hit – only 4% of total crop is traded globally. On news of X bans prices tripled.

Financial Times, "Export bans and protectionist policies worsen disruption in food markets", 11 May 2022, p. 8.

Economist, "Of Froth and Fundamentals", 11 Oct 2008. 10

Export restriction: case of sanctions on Russia

- Fallacy of "strategic commodity"
- Transshipments via central Asia
- ***** US export controls China



Economist, "Russia: Any which way you can", 24 Aug 2024, p. 19-20.

6.1 WTO definition of a subsidy / export subsidy

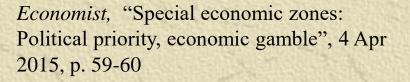
6.2 Basics of *trade* subsidies
* Types: ad valorem or specific

Import subsidy not common – food aid instead
Export subsidy require rules on their use

* Objectives
* Economics and political issues

6.3 Modeling: partial eqlbm analysis

- * Alternative programs to facilitate or promote exports
 - Mkt and product promotion
 - Special economic zones (SEZs)
 - Tax-free imported inputs
 - Reduced tax on profit
 - Other subsidies





Shanghai SEZ: Shift to services from manufacturing



Six sectors opening for investment in the SFTZ

Industry	Sub-sector	
Financial	Banking	
	Health insurance	
	Leasing	
Shipping	Ocean shipping and management	
Commercial	Value-added telecom services	
	Sales and service of game machines	
Professional	Legal services	
	Credit investigations	
	Travel agencies	
	Investment management	
	Construction services	
Cultural	Entertainment venues	
Social	Educational and vocational training	
	Medical services	
Source: HSBC		

In China, services \uparrow to 62% of GDP in 2013 (in Hong Kong it is 90%); Officials are experimenting with deeper reforms in services within a tightly-sealed zone.

Economist, "Shanghai free trade zone: The next Shenzhen?", 5 Oct 2013, p. 51-2

6.4 WTO rules on subsidies (prohibited for manu goods)
* Ag export subsidies commitment: bound value and volume, base yr 1986-90

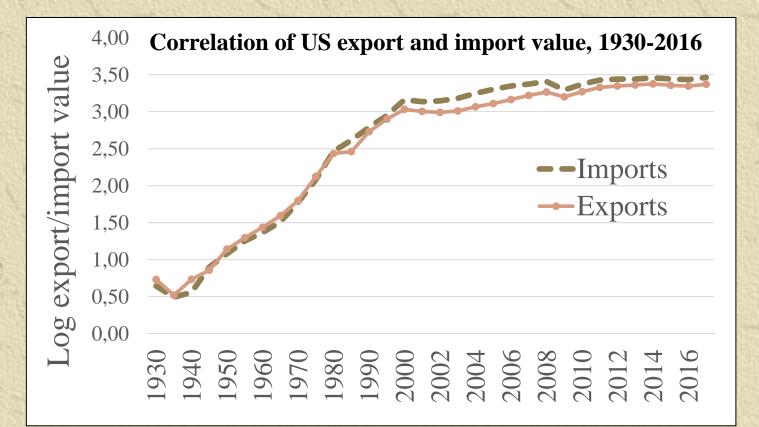
• DCs: 36% cut in value, 21% cut in volume over 1995-2000

- LDCs: 24% cut in value, 14% cut in volume over 10 yrs
- 2020: export subsidies no longer allowed

India's sugar (cane) subsidy: domestic vs trade subsidy Background

- 2018: India became biggest producer
- 2019: record output ($Q_s = 33m \text{ tons}; Q_D = 26m$)
 - Cumulative sugar stockpile: a record 14.5m tons
 - P_w at lowest in 10 years
- 35-50m farmers on 1-2 hectare plots (7.5% of rural pop of 2 big states)
- Sugar mills employ 600 000 people
- Policy
 - P_D of cane is a "state-advised price" guaranteeing min P to farmers
 - Gov't also sets a min P for mills consumers / users pay high price
 - Aug 2019: mills were paid bonus of 15¢/kg for export (\$877m in total)
- Brazil, Australia and Guatemala file WTO complaint
 - $\downarrow P_W$
 - Displace exports

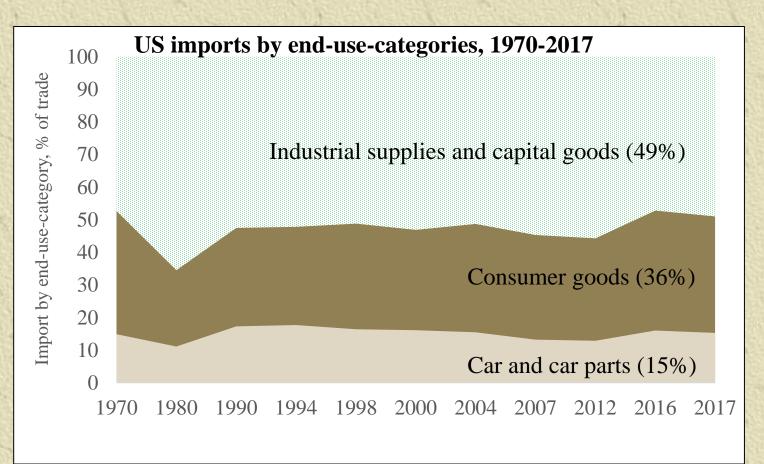
Trade policy analysis: concluding comments
6.5 Lerner symmetry: empirical evidence
* Taxing imports is taxing exports



Source: US Census Bureau, https://www.census.gov/foreign-trade/statistics/historical/gands.pdf, accessed Sep 2018.

Trade policy analysis: concluding comments

Businesses are consumers too



Data source: US Dept. of Commerce, Survey of Current Business, Mar issues year after date.