Trade Policy

Part 4

Export Subsidies

Next

- Turning to export protection
- How would export subsidies work?
- If the goal is to maximize national social welfare, then export subsidies would always be undesirable!

First, what is an export subsidy?

 An export subsidy is a payment to a firm for every unit exported

Protection in Agriculture

- US: pays cotton farmers to grow more cotton and then subsidizes manufacturers to buy the American cotton
- Common Agricultural Policy in EU: pays up to 50 Euros/ton of sugar beets
 - Five times the world market price!
 - makes Europe a leading supplier of sugar, even though other countries have a natural comparative advantage over Europe

Export subsidies in Agriculture

- The major reason that countries subsidize agricultural exports is political
- · Who benefits from agr. export subsidies?
- Who loses from agr.export subsidies?

Export Subsidies in Agriculture

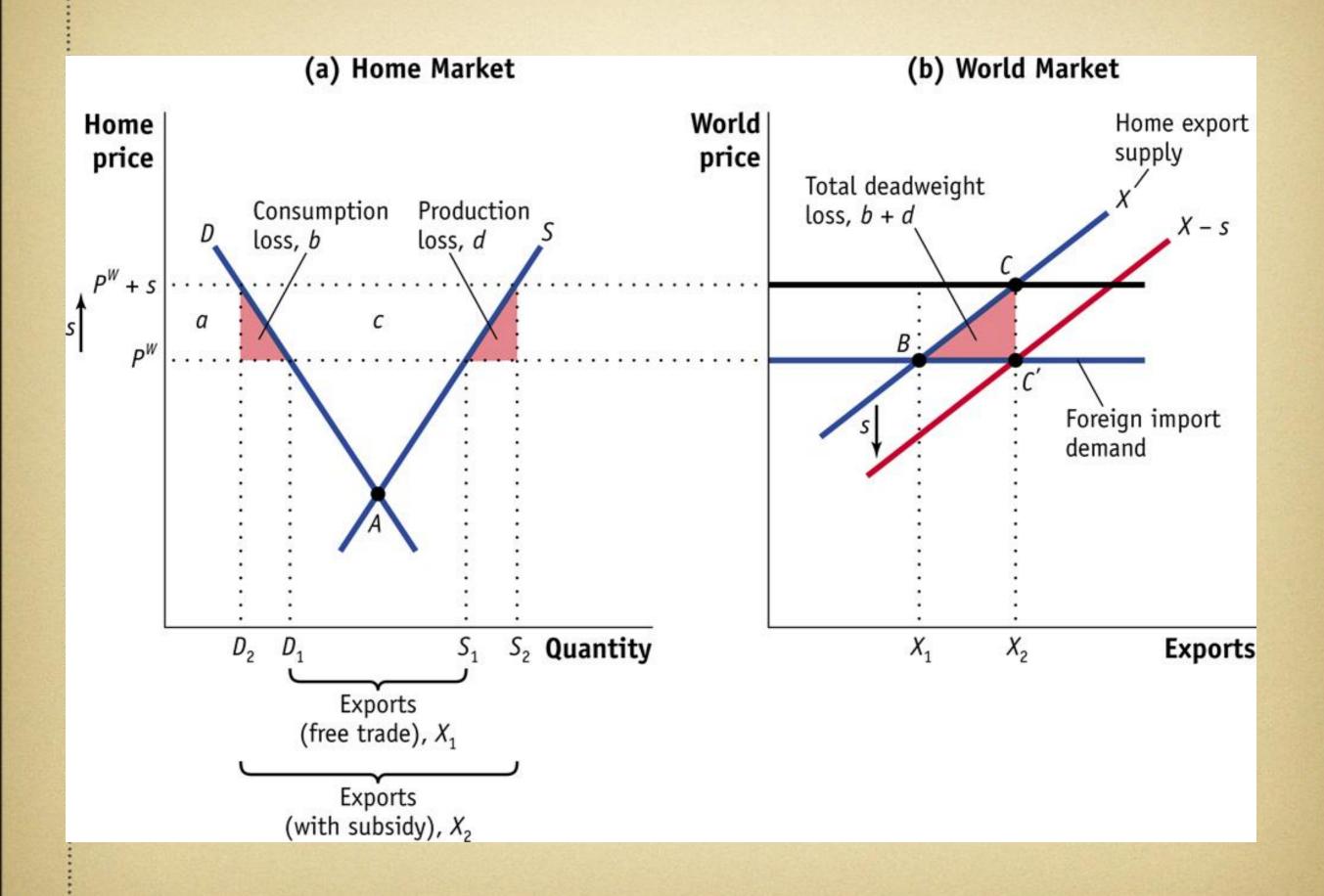
- July 2004
- Several agricultural exporters, led by Brazil, brought a WTO case against sugar subsidies in Europe and cotton subsidies in the U.S.
- The WTO ruled in favor of Brazil

- 2005, Hong Kong declaration
- member countries of the WTO agreed to abolish all export subsidies by the end of 2013
- Not yet ratified by member-countries...
 - Goals rather than outcomes

- 2011-now, Geneva
- In exchange for removal of subsidies, landpoor developing countries are expected to lower their agricultural tariffs
 - Called countervailing tariffs
- Negotiations failed...
- WTO meeting broke up without agreement

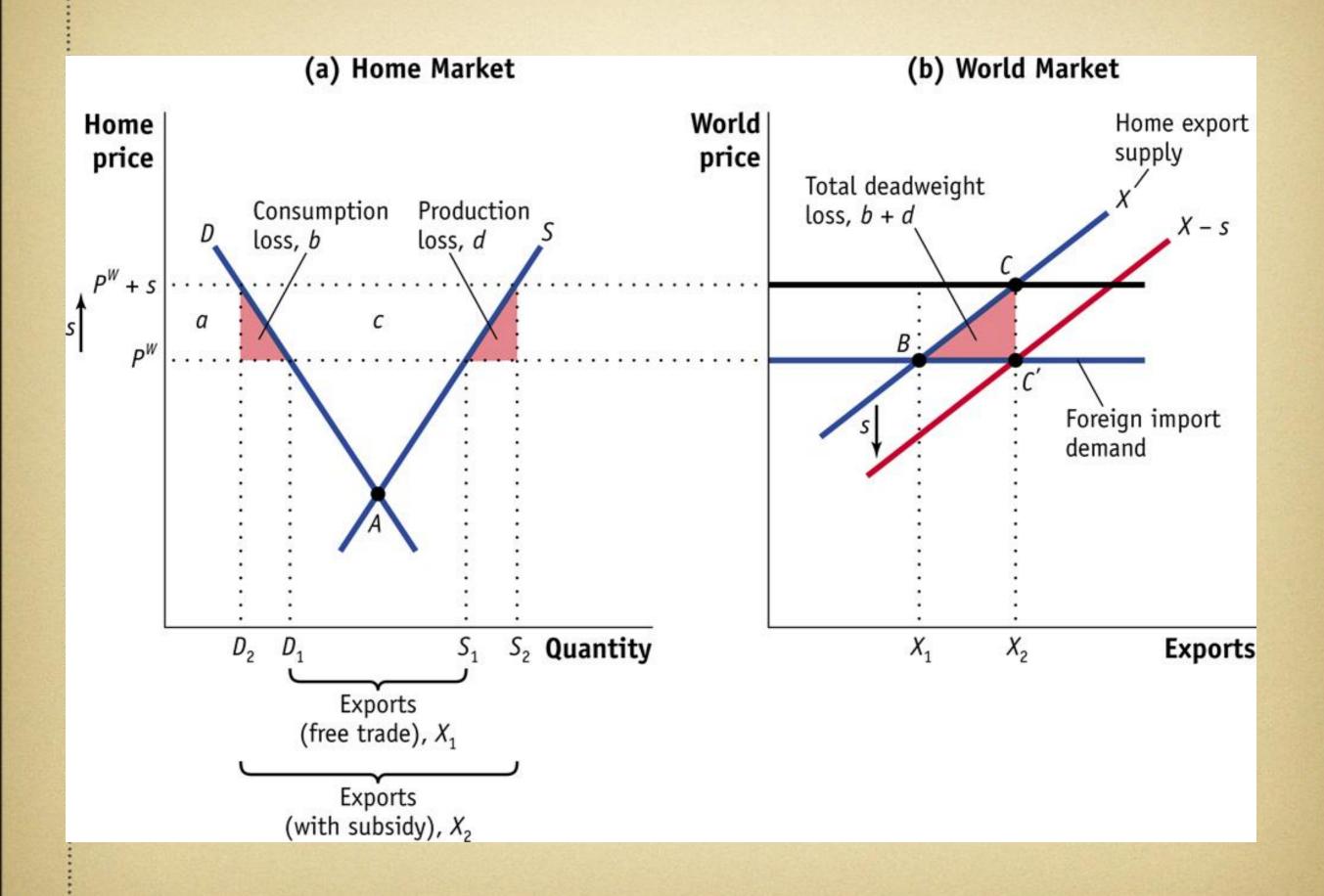
Export Subsidies in a Small Country

- We start with a small Home country
- Faces a fixed world price for its export



- Suppose the government wants to boost domestic exports with a per unit *subsidy* s
- Domestic price paid by consumers is also PW+s
 - If domestic price was lower than PW+s, the firms would just export their goods instead

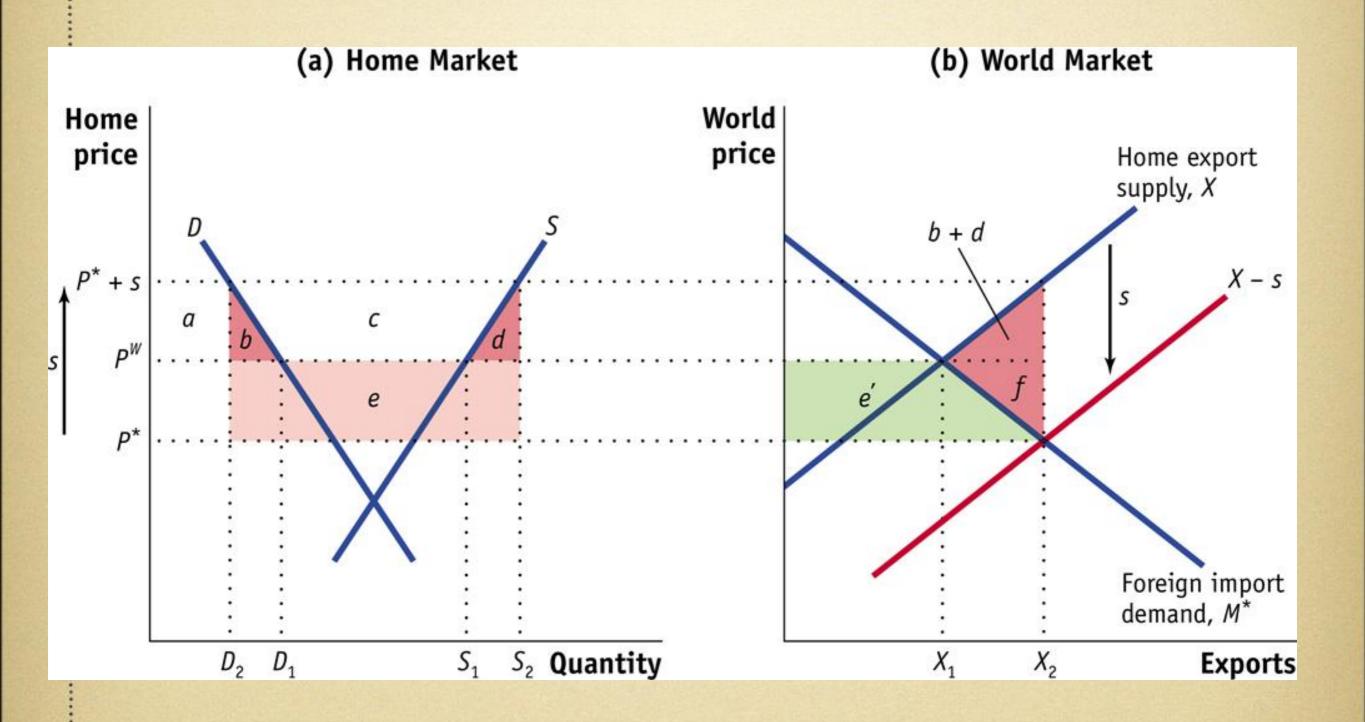
- Export subsidies increase both the price and quantity of exports
 - A movement along the domestic export supply curve
 - From the world perspective, the export subsidy results in an increase in export supply
 - export supply curve shifts down by the amount of the subsidy, s



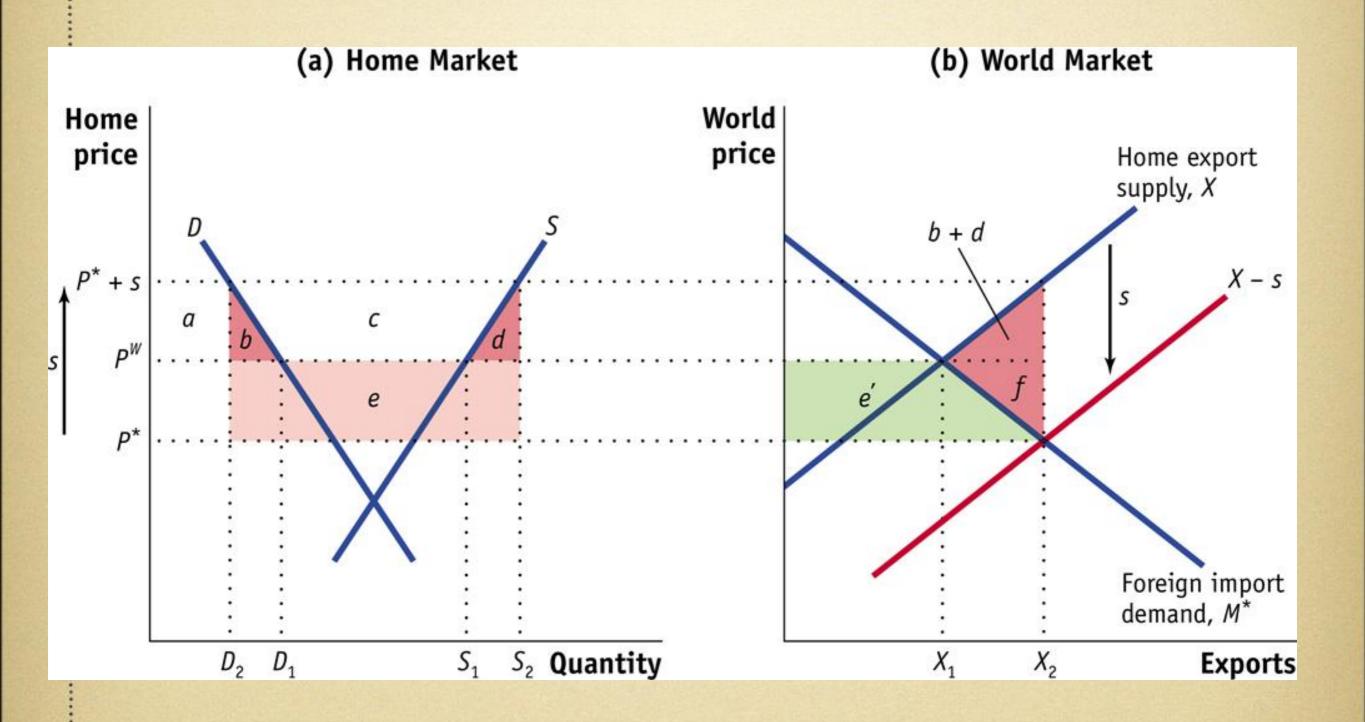
- Impact of the Subsidy on Home Welfare
 - consumer surplus: -(a+b)
 - producer surplus: (a+b+c)
 - The export subsidy costs to the government: -(b+c+d)
 - This gives a net welfare loss of -(b+d)

Next: Large Country

- Now the Foreign export demand curve is downward sloping
- Hence changes in the amount exported will affect world price



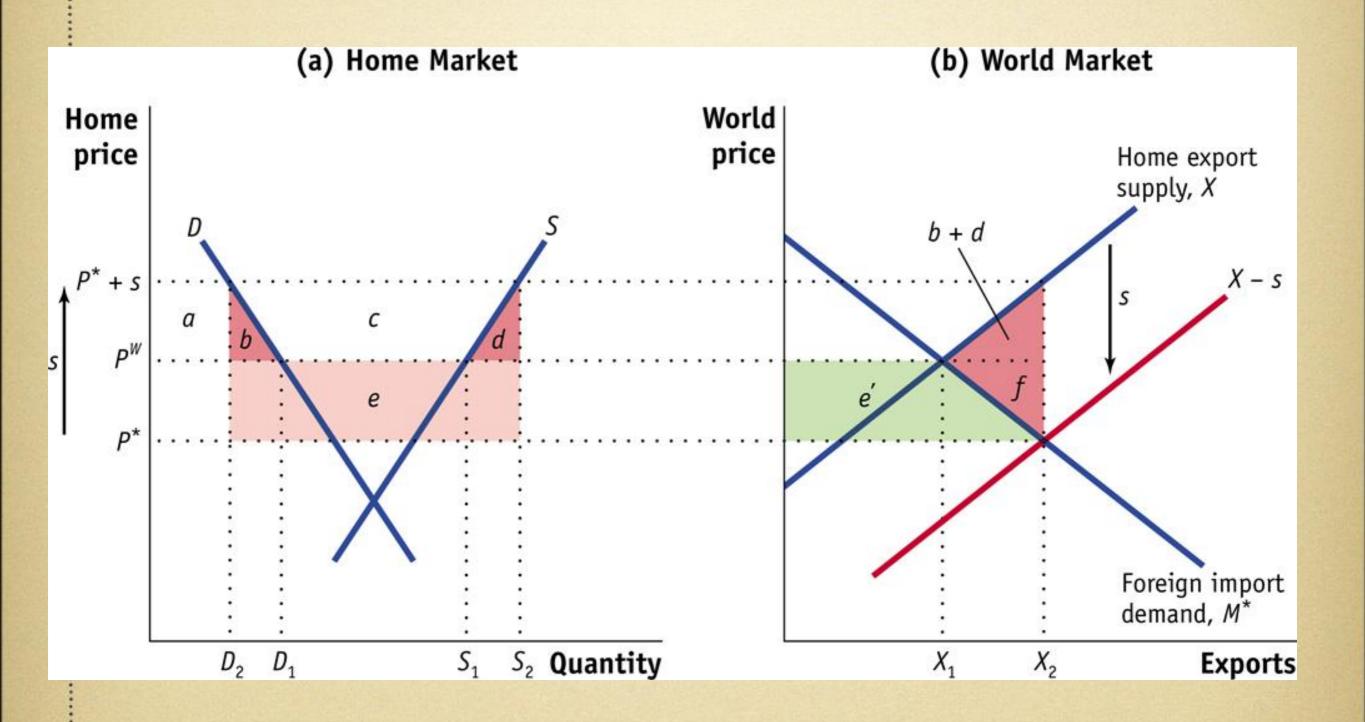
- Note that the new world price, P*, is less than PW
- Meaning, Foreign consumers pay a lower price for Home exports
- Home terms of trade deteriorated!
- Since Home terms of trade fall, plus the DWL, the Home country will suffer overall losses!
- Foreign country will gain
 - foreign terms of trade improve



- Effects on Home Welfare
 - consumer surplus: -(a+b)
 - producer surplus: +(a+b+c)
 - Subsidy cost: -(*b*+*c*+*d*+*e*)
 - This gives a net welfare loss of (b+d+e)

Important observation

 A large country loses even more from an export subsidy than a small country, due to a reduction in the world price of its exported good! • While Home definitely loses, Foreign definitely gains



World Welfare

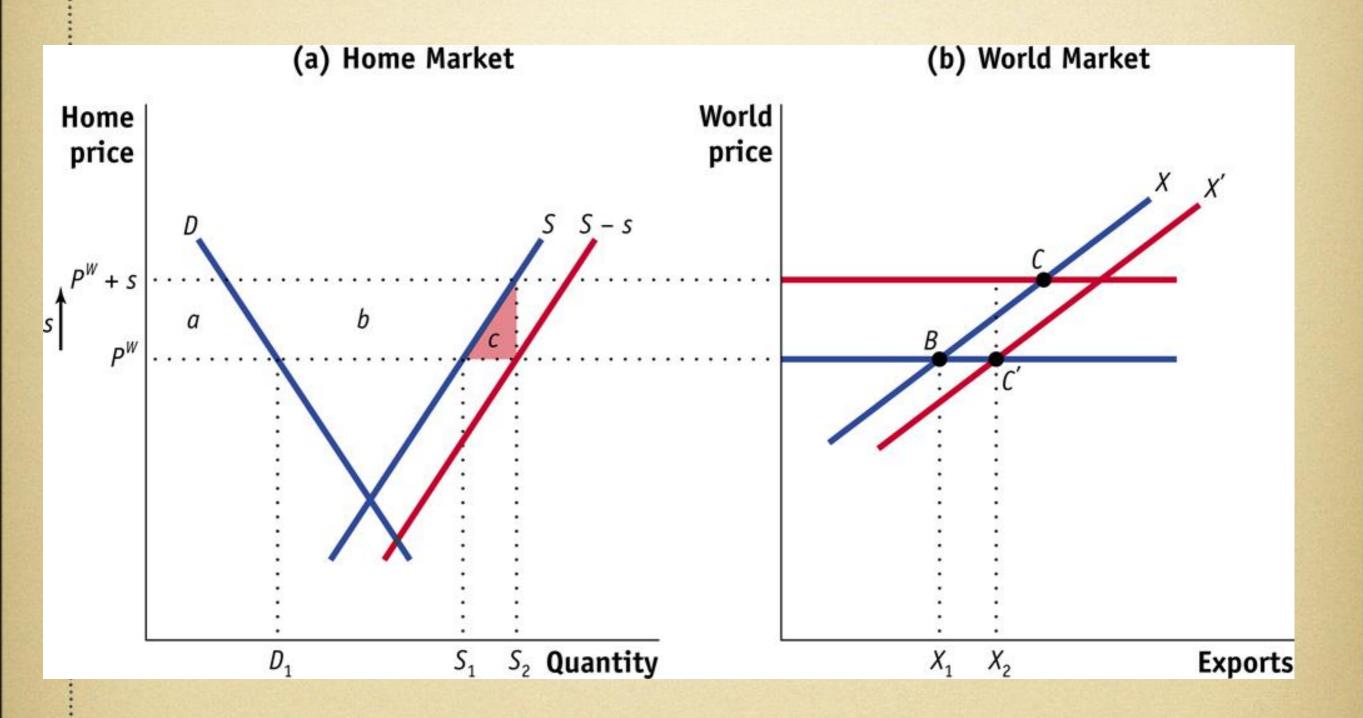
- Foreign gains: +e'
- Home loses: -(*b*+*d*+*e*)
- Net world loss: -(b+d+f)

Next: Production Subsidies

- The agreements reached in Hong Kong distinguish between export subsidies in agriculture and all other forms of domestic support that increase production
- This is because it is expected that these other forms have less impact on exports than do direct subsidies
- we will examine the impact of a production subsidy

- A **production subsidy** is when the government provides a subsidy of *s* dollars for *every unit* that a Home firm produces
 - not just to units exported
- The subsidy can be implemented by:
 - a minimum price to the farmer
 - subsidies to the users of the crop to purchase it

- Production Subsidy in a Small Country
 - fixed world price of PW
- Subsidy of s increases Home price to producers to PW+s
- Quantity demanded at home *does not change* since producers still charge the world price at Home
 - This contrasts with an export subsidy



Effect on Home Welfare

- Producer surplus rises by (a+b)
- Government cost of the subsidy is (a+b+c)
- Consumer surplus is unaffected
- net effect on Home welfare of (-c)

Important observation

- The DWL caused by the production subsidy, (*c*), is less than that caused by the export subsidy, (*b*+*d*)
 - -(c) versis -(b+d)
- The only deadweight loss is production inefficiency
 - producers produce at higher than marginal cost
 - No consumer distortion!

Targeting Principle

- Production subsidy is a better policy instrument than the export subsidy
- This is an example of the targeting principle
- To achieve some objective, it is best to use the policy instrument that achieves the objective most directly