# PubPol/Econ 541

Class 23

#### Dumping and Anti-Dumping Policy by Alan V. Deardorff University of Michigan

2023

#### Announcements

- Course Evaluations
  - Please do them
- Quiz:

	Q9	Q10	Q11
Mean	7.67	7.63	8.53
Median	8	7	9.5
Max	10	10	10
Min	3.5	3	4.5
S.D.	2.21	2.07	1.73

# **Pause for News**

Class 20: FTAs and Other Trade Deals

# **Pause for Discussion**

Class 23: Dumping and Anti-Dumping Policy

#### Questions on Jackson

- Under what circumstances are imports regarded as "dumped"?
- What is the "dumping margin"?

# Dumping and Anti-Dumping

- Dumping is defined as exporting for a price below a "fair price," defined as EITHER
  - What the exporter charges in its home market,
     OR
  - Cost
- Anti-dumping duties (ADD) are permitted by the GATT/WTO if set equal to (or below)
  - The dumping margin: the difference between fair price and the export price

#### Outline

- Why firms dump
  - Predation? No
  - Protected home market
  - Interface problem
  - Other reasons
- Procedures and data
- Anti-dumping issues
- Economic effects of anti-dumping duties

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#### Predation

Defined as selling at low price in order to

 Drive competitors out of business
 <u>AND</u> THEN

- Charge monopoly price

#### Predation

- Does predation happen?
  - Within economies yes. (e.g., Microsoft Explorer)
  - Internationally? Rarely if ever
    - Dumping is usually alleged against multiple firms and sometimes multiple countries
    - Later monopoly pricing is therefore very unlikely

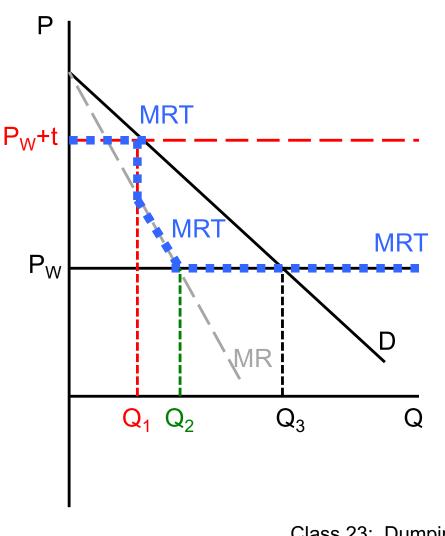
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#### **Protected Home Market**

- Does a tariff cause dumping?
  - It raises the home price above the world price
  - If home firm exports at the world price, then that would be dumping
  - But with perfect competition, no home firm would export, since it gets a higher price at home.
- So protected home market only causes dumping with imperfect competition
- We'll look at a case of a single home firm, thus a monopoly in the home market

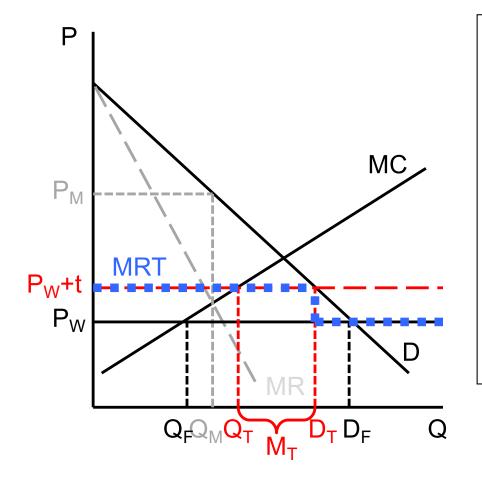
## Marginal Revenue of a Monopoly protected by a Tariff



- The usual MR curve for a monopolist in a closed economy is is mostly not relevant for a firm facing
  - a world price P<sub>W</sub> at which it can export and
  - an upper limit P<sub>W</sub>+t on what it can charge in the home market.
- MRT (marginal revenue in presence of a tariff) is
  - $P_W$ +t for sales up to  $Q_1$
  - MR for sales between Q<sub>1</sub> and Q<sub>2</sub> (sales along demand curve)
  - $P_W$  for sales above  $Q_2$  (exports above  $Q_3$ )

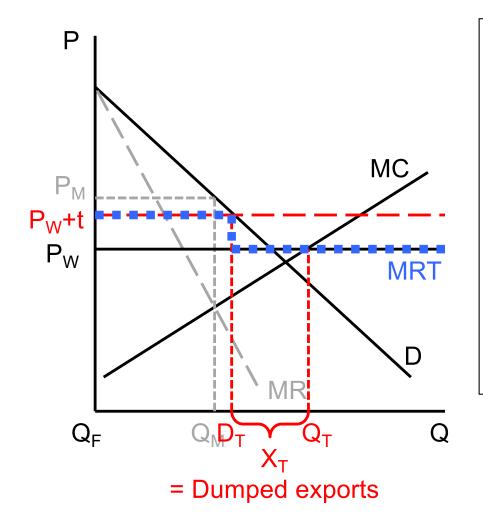
Class 23: Dumping and Anti-Dumping Policy

#### **Recall Monopoly with Tariff**



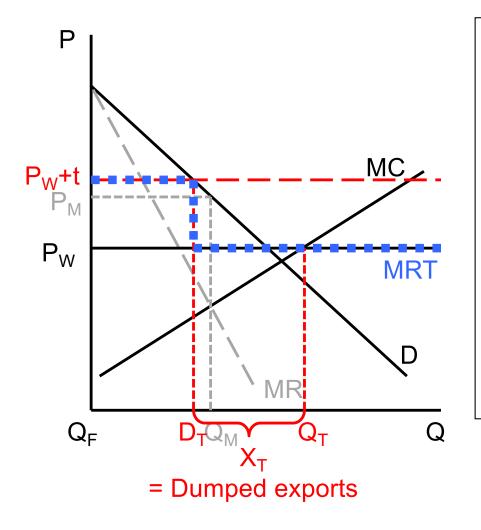
- Here the world price is low enough that the monopolist does not export.
- It can sell up to D<sub>T</sub> at price P<sub>W</sub>+t, so that is its marginal revenue. Equating that to MC, it produces only Q<sub>T</sub> and demanders import the rest.
- It is not exporting, and therefore <u>not</u> dumping.

## Monopoly with Small Tariff



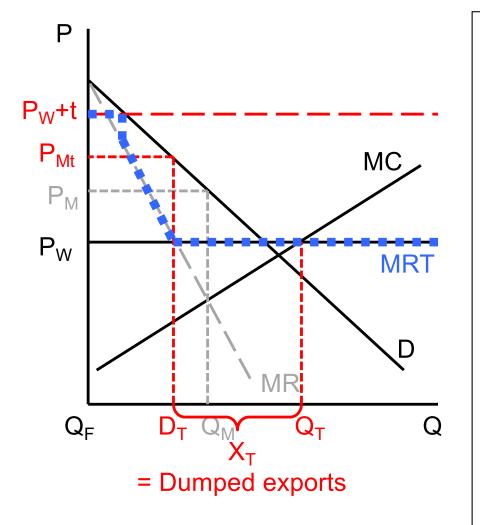
- But suppose  $P_W$  is higher
- Again the firm can sell up to D<sub>T</sub> at price P<sub>W</sub>+t,
- But now it can also sell more at price P<sub>W</sub> which is above its MC. Its marginal revenue from exporting is P<sub>W</sub>, so it produces Q<sub>T</sub> where P<sub>W</sub>=MC
- It is charging P<sub>W</sub>+t at home and P<sub>W</sub> abroad, <u>so it is dumping</u>.

## Monopoly with Medium Tariff



- With a somewhat higher tariff, the firm charges an even higher price at home, sells less there but exports more.
- Again it is charging P<sub>W</sub>+t at home and P<sub>W</sub> abroad, <u>so it is</u> <u>dumping</u>.
- Note that it is now selling domestically for <u>more</u> than the closed-economy monopoly price.

## Monopoly with High Tariff



- With an even higher tariff, the firm would lose profit if it charged P<sub>w</sub>+t at home.
- Instead it charges P<sub>Mt</sub> equating marginal revenue to marginal cost.
- But the relevant marginal cost for sales at home is not MC, but rather P<sub>W</sub>, since that is the opportunity cost of selling at home instead of exporting.
- Again it is charging P<sub>Mt</sub> at home and P<sub>W</sub> abroad, <u>so it is</u> <u>dumping</u>.

# **Pause for Discussion**

Class 23: Dumping and Anti-Dumping Policy

#### Questions (not asked before)

- Why will a tariff not cause dumping (by price definition) if markets are perfectly competitive?
- If dumping is due to a protected home market, to what extent is it harmful to the
  - Importing country?
  - Exporting country?

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- Countries with different cultures and institutions may encounter frictions at the border as a result.
- Example from the Jackson text:
  - Japan: Worker tenure; mostly debt financing
  - US: No worker tenure; more equity financing
  - Leads to differences in fixed costs (F) and variable costs (V), even when total costs are same

Costs	Ja	ban	U	S
	F	V	F	V

Costs		Japan		US	
		F	V	F	V
	Plant	20		20	
	Debt service	90		50	
	Dividends		10		50
	Labor	240			240
	Materials		240		240
Total	cost	60	00	60	00
	Fixed	350		70	
	Variable		250		530

At prices 250<P<530: Japan produces; US shuts down To US, looks like P<MC Class 23: Dumping and Anti-Dumping Policy

- Japan-US
  - Differences in normal behavior lead naturally to conflict and misunderstanding
  - This was Jackson's example

- China-Other
  - China's political system differs from the democracies of other major traders
    - Much greater use of state-owned firms
    - Communist Party plays a role even in private firms
  - Others see subsidies where China sees national interest

• EU-US

#### Recall semiconductor conflict

- EU
  - Has carbon price and carbon tariff to encourage green production
  - Bans subsidies by member nations
- US
  - Carbon tax not politically viable
  - Prefers subsidies for green production

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## Other Reasons for Dumping

- Below-average-cost dumping
  - Temporary weak demand (recession)
  - World excess supply
- Below-marginal-cost dumping
  - Producer learning
  - Consumer learning
- Other thoughts?

# **Pause for Discussion**

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## Questions on Deardorff, ("Economic Perspectives...")

- Why might an exporter dump, based on the below-cost definition? Who is harmed in these cases (answer may depend on which of several reasons apply)?
- How common is "predatory dumping", and why?

#### Outline

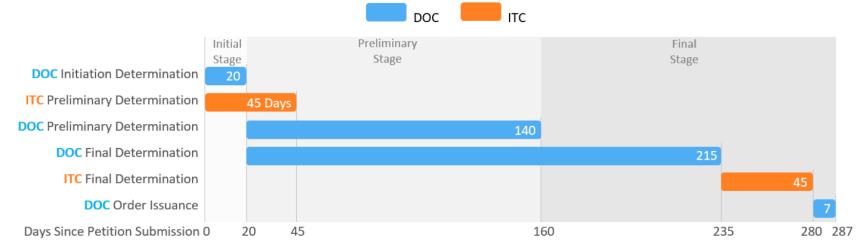
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#### US Procedures for ADD

- 1. File in both Commerce (ITA) and USITC
- < 45 days: Preliminary injury determination by USITC</li>
- 3. < 160 days: Preliminary dumping margin by ITA (if yes, action at the border)</li>
- 4. < 235 days: Final margin
- 5. < 280 Days: Final injury

Throughout: Settlement possible!

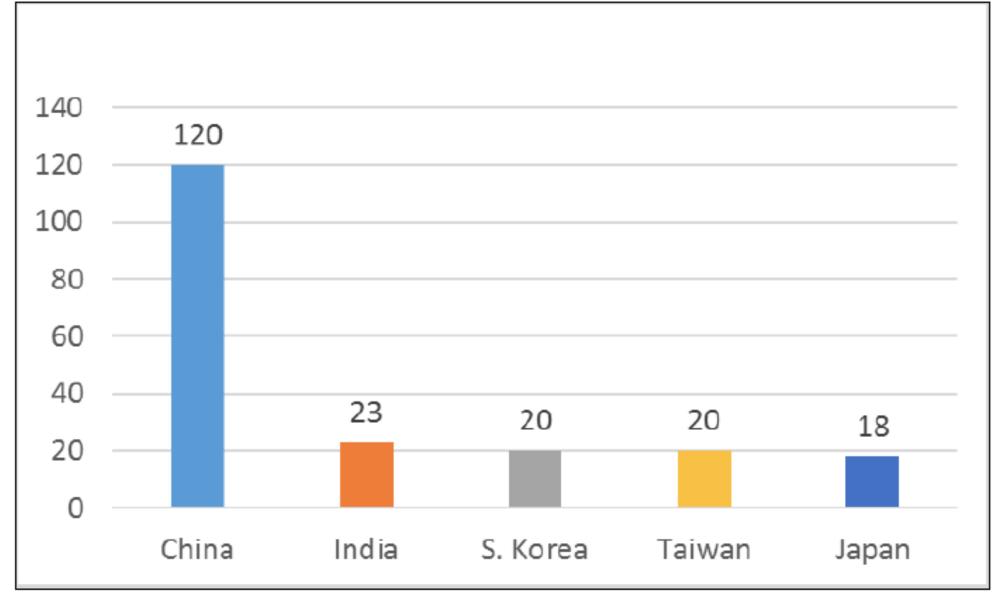
#### Statutory Time Frame for Antidumping Duty Investigations



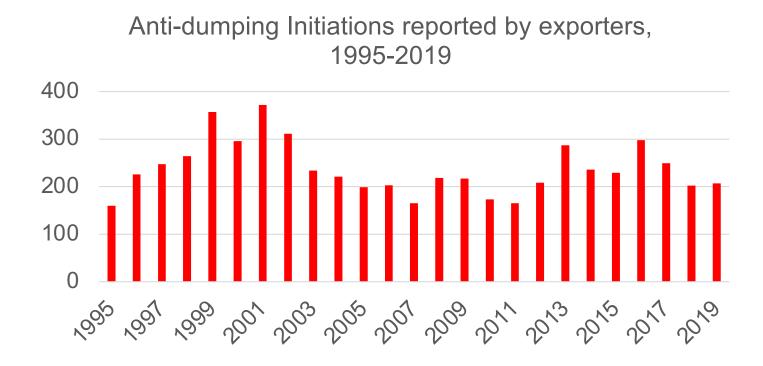
\*The DOC determination dates may be extended under certain circumstances. Note that if at any point a DOC or ITC determination (excluding the DOC Preliminary Determination) is negative, the investigation will terminate. When the DOC and ITC's final determinations are affirmative, the DOC will issue an AD order within approximately seven days after the ITC's final determination.

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#### Figure I. Major Targets of U.S. AD Orders (In place as of December 14, 2018)



Source: U.S. International Trade Commission.



Source: WTO

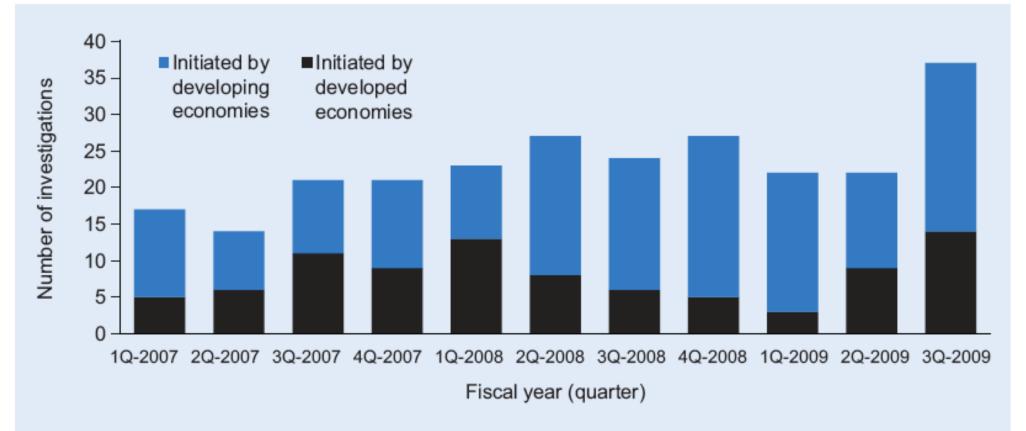
# Top targets of anti-dumping investigations, 1995-2019

	Exporter	
1	China	1392
2	Korea, Republic of	447
3	Chinese Taipei	315
4	United States	298
5	India	241
6	Thailand	238
7	Japan	230
8	Indonesia	218
9	Russian Federation	173
10	Malaysia	165
11	Brazil	159
12	European Union	133
13	Germany	119
14	Turkey	103
15	Ukraine	94

Source: WTO

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#### Newly Initiated Antidumping Investigations, 1Q 2007–3Q 2009



• Source: Global Antidumping Database.

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#### Anti-Dumping Issues

- Cumulation
- Margins analysis
- Lesser-Duty Rule
- Nonmarket economies

# **Pause for Discussion**

#### Questions on Jackson

- Does "cumulation" make it more or less likely that a country whose exports are dumped will face an anti-dumping duty?
- Does "margins analysis" make it more or less likely that a country whose exports are dumped will face an anti-dumping duty?

### Anti-Dumping Issues

- Cumulation
- Margins analysis
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- Nonmarket economies

# **Pause for Discussion**

#### Questions on Jackson

- What is the level of the injury test in dumping cases?
- If dumping and injury are both found, what determines the size of the anti-dumping duty? Must it then be applied? Are the rules any different in the EU than in the US?

#### Questions on Jackson (cont.)

- What is the "lesser-duty rule"? In what countries is it applied, and in what countries is it not applied?
- Suppose an anti-dumping duty will cause harm to some in an economy that is greater than the benefit to the protected industry.
  - Can authorities therefore choose not levy the duty?
  - For those who can decline to levy the duty, what must be true in order for them to do so?

#### Questions on EC, DG-Trade

- Who decides on anti-dumping in the EU?
- Do the criteria for anti-dumping measures differ from those of the US?
- What forms do EU anti-dumping measures take, and for how long?
- What is the size of an anti-dumping duty in the EU?

#### Questions on Jakob, "Lesser Duty Rule..."

- What does Jakob view as "fair competition"?
- What is the "lesser-duty rule"?
  - In what countries is it applied, and in what countries is it not applied?
  - In those that apply it, how often has the smaller injury margin been used?
- In what countries can an anti-dumping duty be denied based on other interests of the country?
  - What is the "proportionality test" for this?

### Anti-Dumping Issues

- Cumulation
- Margins analysis
- Lesser-Duty Rule
- Nonmarket economies

## Nonmarket-economy status

- In most cases, the "fair price" is found from the exporting country's own market
  - The price of the good, or
  - The cost of producing it there
- If exporter is a "nonmarket economy" then those prices are not meaningful
  - Instead, fair price may be inferred from data of an otherwise comparable market economy
  - This typically finds a much higher price and therefore a
    - Larger dumping margin
    - Larger anti-dumping duty
- This was contentious when China objected to being labelled as nonmarket, but they lost their case in WTO

# **Pause for Discussion**

#### Questions on Hayashi, "U.S. Downgrades Russia..."

- Can you tell from this why nonmarket status is important?
- Why is the change unlikely to have much effect on Russia-US trade right now?
- On what basis does the US justify this change?
- What other countries have nonmarket status in the US?
- How many countries, other than Russia, have been moved from market status to nonmarket status?

## Outline

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- Economic Effects of ADD
  - We'll skip the analysis this year and go right to summary of results

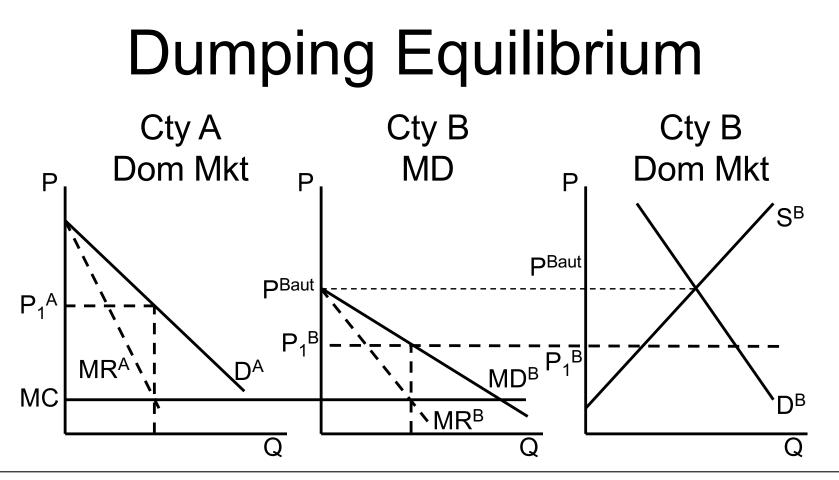
#### Economic Effects of ADD

- Effects of an Anti-Dumping duty depend on how the dumping firm responds
  - 1. It may keep its exporting price unchanged
  - 2. It may <u>readjust its prices</u> in the presence of the duty
  - 3. It may <u>not dump</u> (perhaps to forestall the ADD): change its pricing policy to charge the same price in both markets

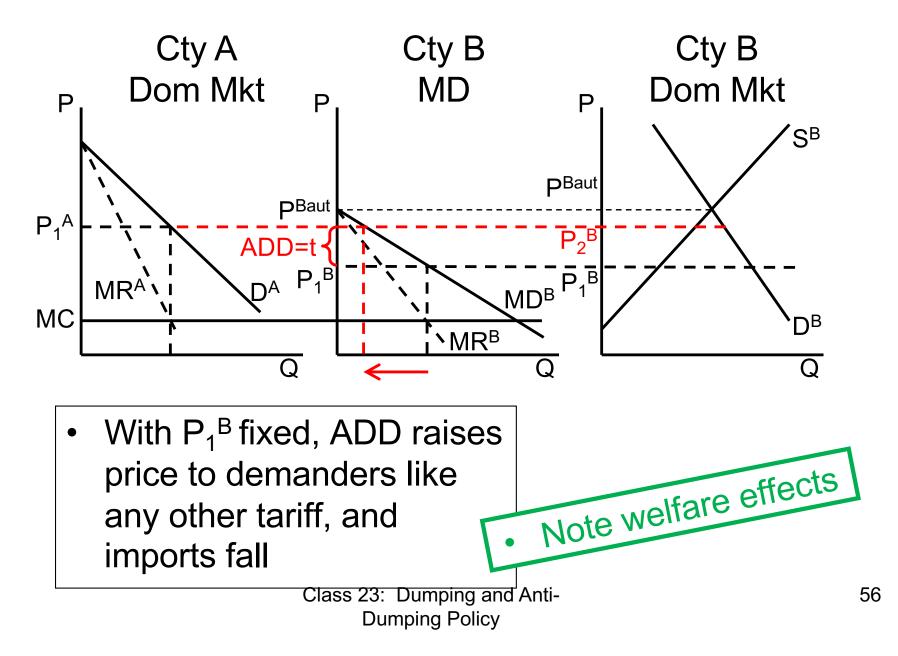
Note that this may happen even without dumping ever being alleged

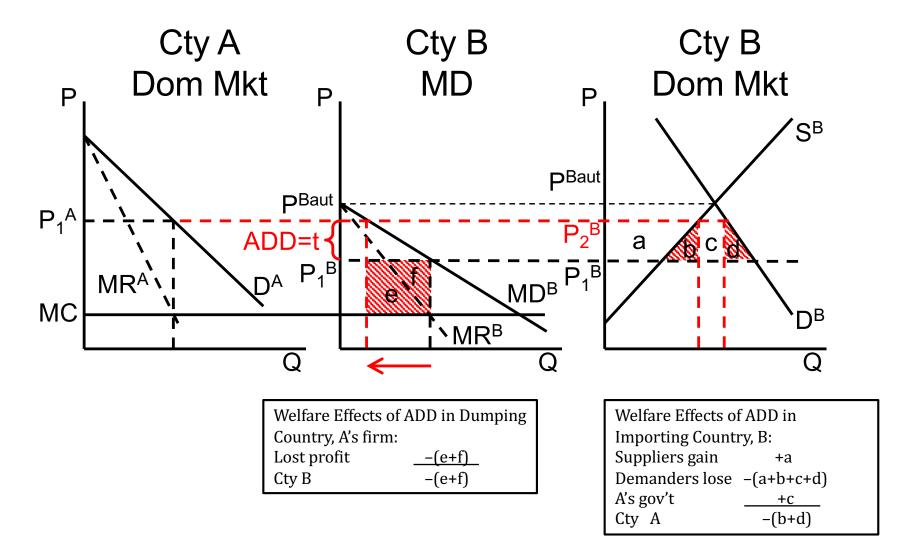
#### Effects of ADD

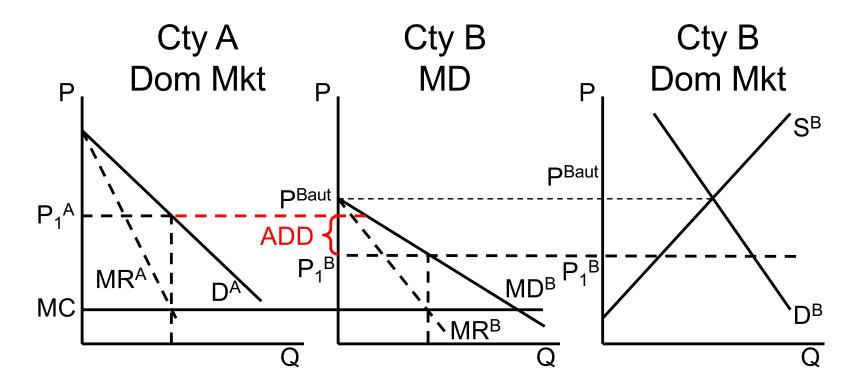
- Model
  - Single firm at home (thus monopoly in autarky)
  - Faces downward sloping demand from abroad
  - Protected by prohibitive tariff, so that it <u>can</u> charge a lower price for export than at home
  - Uses monopoly pricing (MC=MR) in both markets separately



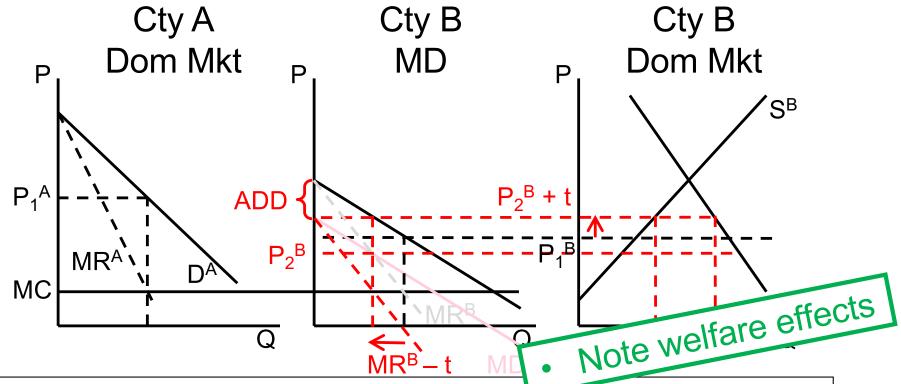
- Consider an equilibrium with a single firm at home (A) that can also export to a foreign market, B, whose home supply and demand lead to the import demand curve MD<sup>B</sup> shown
- Assume Country A's domestic market is protected by a prohibitive tariff
- As drawn,  $P_1^A > P_1^B$  so the firm is dumping





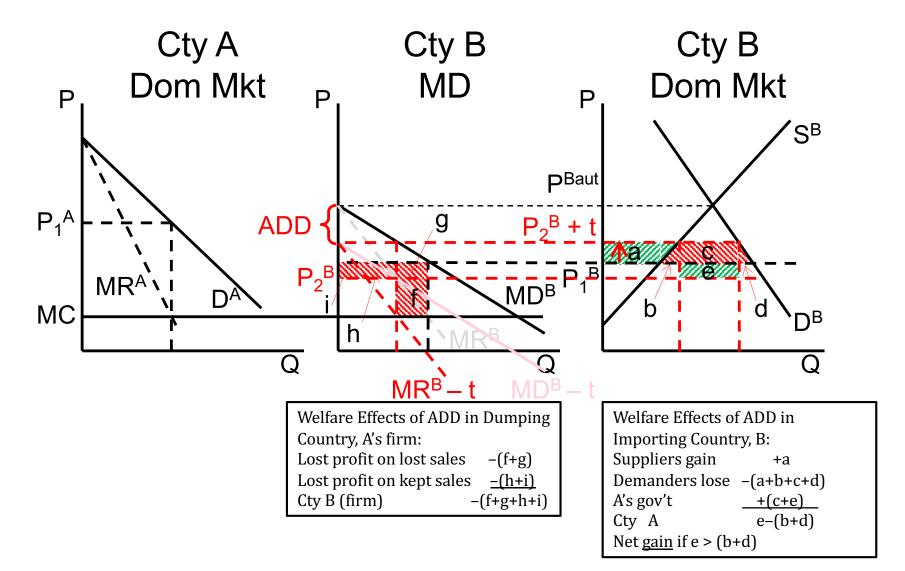


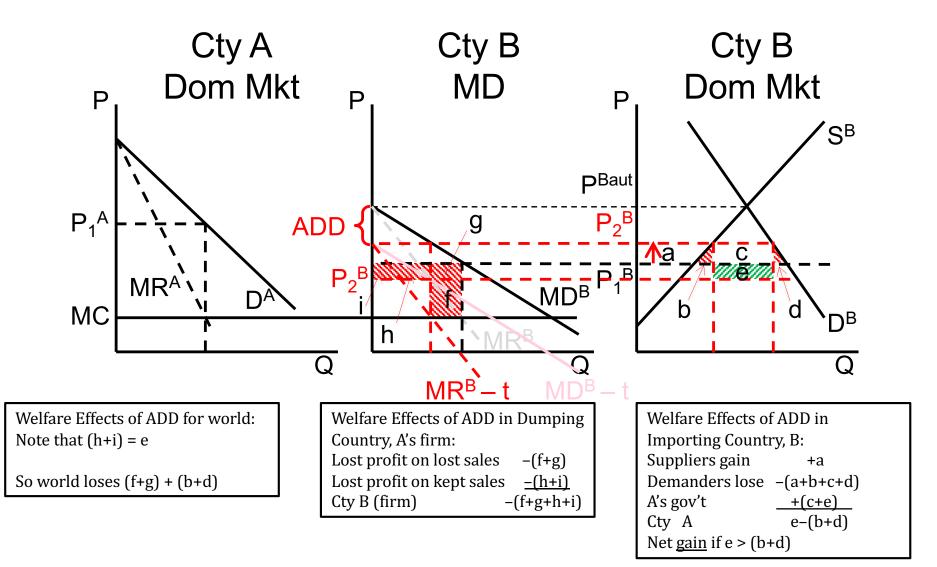
If P<sub>1</sub><sup>A</sup> and P<sub>1</sub><sup>B</sup> can readjust, P<sub>1</sub><sup>A</sup> will not change



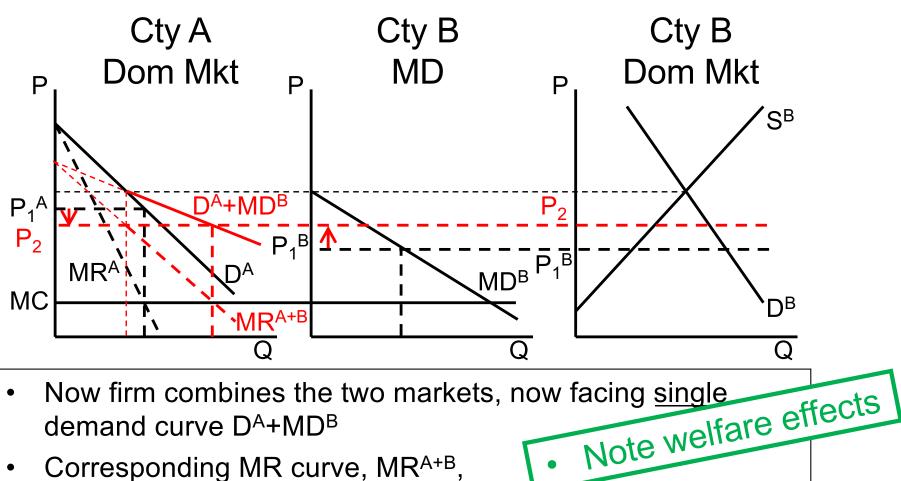
- If  $P_1^A$  and  $P_1^B$  can readjust,  $P_1^A$  will not change
- ADD, set equal to P<sub>1</sub><sup>A</sup> P<sub>1</sub><sup>B</sup>, acts as downward shift in demand (and MR) for the exporting firm
- Effect is to lower export price but by less than tariff
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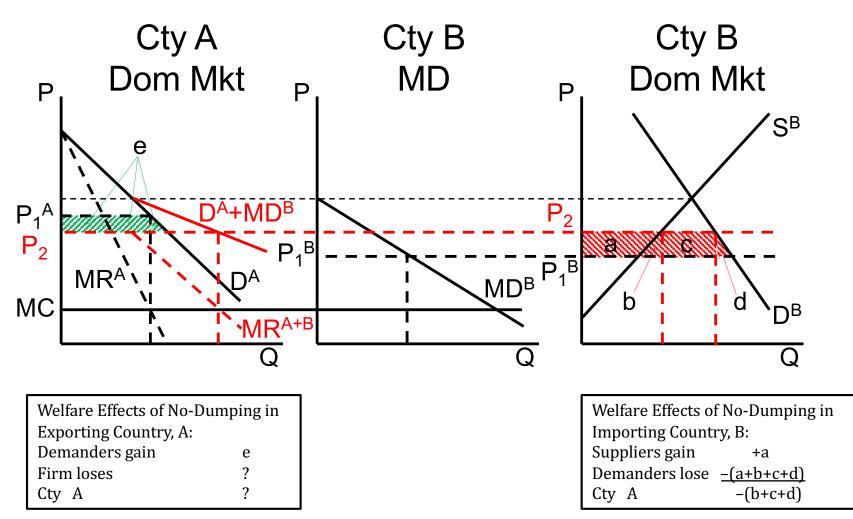
#### Not-Dumping Equilibrium 3.



- Corresponding MR curve, MR<sup>A+B</sup>, •
- Determines price  $P_2$  charged in both markets •
- Result: Price falls at home and rises abroad •

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#### 3. Not-Dumping Equilibrium



## Summary of ADD Effects

- If export price unchanged
  - Exporter sells less and loses profit
  - Importer has same effects as usual smallcountry tariff
    - Suppliers gain
    - Demanders lose
    - Government gains
    - Dead-weight loss

## Summary of ADD Effects

- If exporter resets price to maximize profit (and ADD is unchanged)
  - Exporter lowers price, but by less than tariff
  - Exporter loses profit, but loses less than if price unchanged
  - Importer has same effects as usual largecountry tariff
    - Suppliers gain, demanders lose, government gains
    - Country <u>may</u> gain
    - Terms of trade improves

## Summary of ADD Effects

- If exporter sets a single price for home and exporter (so as <u>not</u> to dump)
  - Home price falls, export price rises
  - Exporter profit falls
  - Importing country does <u>not</u> use tariff (ADD)
  - Importing country welfare:
    - Suppliers gain
    - Demanders lose more
    - Government gains nothing
    - Terms of trade worsens

# **Pause for Discussion**

#### Questions (Not asked before)

- Of the three cases considered here, which seems most likely to you?
  - No change in dumper's prices
  - Dumper's export price changes
  - Dumper changes both prices in order not to dump
- Might the dumper simply raise the export price to equal its home price?