Temporary Trade Barriers: When Will They End?

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Preview

P

In

- r
- g
- a

Preview of Results

- H
  - R
- E
  - P
  - R
  - T
- T

Outline of Talk

1. B
2. E
3. R
4. F
5. Conclusion

Timeline

Taking trade agreement tariff and anti-dumping duties as given,

1. **Import-competing firms lobby DOC/ITC to renew AD duties**
2. **Uncertainty is resolved**
3. **DOC/ITC decide whether to renew duties**
4. Private actors make production, consumption decisions

Economy

- Two countries: home and foreign (*)
- Separable in three goods: X and Y (traded) and numeraire
- Demand identical for both goods in both countries
- Supply: $Q_X^*(P_X) > Q_X(P_X)\ \forall P_X$; symmetric for Y
  - Home net importer of X, net exporter of Y

Home levies τ on X, Foreign levies τ^* on Y

- $P_X = P_X^W + \tau$ and $\pi_X(P_X)$ increasing in τ

Non-tradable specific factors motivates political activity

Political Structure

In Home country (foreign is passive):

- Dept. of Commerce / Int'l Trade Commission
  - Can renew AD duties
  - Susceptible to influence of lobbying, perhaps both direct and indirect
  - Modeled in reduced form
- A Single Lobby
  - Represents import-competing sector, X

"Government"

Renewal decision determined by complex process including DOC, ITC, pressure via other political bodies. Reduced form:

$$W_G = CS_X(\tau) + \gamma(e,\theta)\pi_X(\tau) + CS_Y(\tau^*) + \pi_Y(\tau^*) + TR(\tau)$$

- $CS_i(\cdot)$: consumer surplus
- $\pi_X(\tau)$: profits of import-competing industry
- $\pi_Y(\tau^*)$: profits of exporting industry
- $TR(\tau)$: tariff revenue

"Government"

$$W_G = CS_X(\tau) + \gamma(e,\theta)\pi_X(\tau) + CS_Y(\tau^*) + \pi_Y(\tau^*) + TR(\tau)$$

- $\gamma(e,\theta)$: weight on import-competing industry profits
  - e: lobbying effort
  - θ: uncertain element in G's preferences

Assumption 1

1. $\gamma(e,\theta)$ is increasing and concave in e for all $\theta \in \Theta$.

Lobby

Lobby chooses effort to maximize:

$$\{1 - \Pr[\text{AD Renewal}]\}\ \pi(\tau^a) + \Pr[\text{AD Renewal}]\,\pi(\tau^{ad}) - e$$

- e: Lobbying effort
- τ^a: home import tariff under trade agreement
- τ^{ad}: home import tariff equivalent under anti-dumping duties

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Why uncertainty?

Legislature

- Renews AD duties if G prefers τ^{ad} to τ^{a}

Lobby

- Given (τ^{a}, τ^{*a}) and τ^{ad}, lobby knows what e is required to induce renewal
- Lobby pays this e if: $\pi(\tau^{ad}) - e > \pi(\tau^{a})$

In Equilibrium

- Firms only put forth effort when they know renewal will be granted

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Government

G breaks trade agreement if its utility is higher under AD duties than trade agreement tariff

- Preferences are uncertain through θ

Probability that G breaks agreement:

$b(e, \tau^a, \tau^{*a}, \tau^{ad}, \theta)$ probability median legislator prefers τ^{ad} to τ^a for a given θ and e

Future Work

- C
- E
- P
- A

Conclusion

- S
- E
- F